



# User Guide

## BlackBerry 8707 Smartphone



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# BlackBerry basics

## Switch applications

1. In any application, click the trackwheel.
2. Click **Switch Application**.
3. Perform one of the following actions:
  - If the application that you want to switch to appears, highlight an application and press the **Enter** key.
  - If the application that you want to switch to does not appear, highlight **Home Screen** and press the **Enter** key.

## Assign an application to a Convenience key

Your BlackBerry® device has one Convenience key on the front of the device and one on the left side. Depending on your theme, you might not be able to change the application that is assigned to a Convenience key.

1. In the device options, click **Screen/Keyboard**.
2. Set the **Convenience Key Opens** fields.
3. Click the trackwheel.
4. Click **Save**.

## Set owner information

1. In the device options, click **Owner**.
2. Type your contact information.
3. Click the trackwheel.
4. Click **Save**.

## About links

Links appear on your BlackBerry® device as underlined text. You can have links to various items such as phone numbers, web sites, and email addresses and can use these links to make calls, visit web sites, or start composing messages quickly.

## Create a link for a PIN

You can create a link for a PIN in messages, memos, tasks, or calendar entries. If you click the link, you can send a PIN message. When typing text, type **pin:** and the PIN.

## Expand a folder

1. Click a folder with a plus sign (+) beside it.
2. Click **Expand**.

## Collapse a folder

1. Click a folder with a minus sign (-) beside it.
2. Click **Collapse**.

## BlackBerry basics shortcuts

- To move the cursor, roll the trackwheel.
- To move the cursor in a different direction, hold the **Alt** key and roll the trackwheel.
- To exit a screen or move back a page in the browser, press the **Escape** key.
- To move to a list item or menu item, type the first letter of the item.
- To select or clear a check box, press the **Space** key.
- To view available values in a field, press the **Alt** key.
- To switch applications, hold the **Alt** key and press the **Escape** key. Continue to hold the **Alt** key and highlight an application. Release the **Alt** key.
- To return to the Home screen, press the **End** key.
- To switch between the active notification profile and the Vibrate notification profile, hold the **Mute** key.
- To turn on a theme or notification profile, highlight a theme or notification profile. Press the **Space** key.
- To delete a highlighted item, press the **Backspace/Delete** key.

## No application opens when I press a Convenience key

Verify that you have not deleted the application that you assigned to the key.

Assign a different application to the key.

# Shortcuts

## BlackBerry basics shortcuts

- To move the cursor, roll the trackwheel.
- To move the cursor in a different direction, hold the **Alt** key and roll the trackwheel.
- To exit a screen or move back a page in the browser, press the **Escape** key.
- To move to a list item or menu item, type the first letter of the item.
- To select or clear a check box, press the **Space** key.
- To view available values in a field, press the **Alt** key.
- To switch applications, hold the **Alt** key and press the **Escape** key. Continue to hold the **Alt** key and highlight an application. Release the **Alt** key.
- To return to the Home screen, press the **End** key.
- To switch between the active notification profile and the Vibrate notification profile, hold the **Mute** key.
- To turn on a theme or notification profile, highlight a theme or notification profile. Press the **Space** key.
- To delete a highlighted item, press the **Backspace/Delete** key.

## Phone shortcuts

- To answer a call, press the **Send** key.
- To insert a plus sign (+) when typing a phone number, hold **0**.
- To add an extension to a phone number, press the **Alt** key and the **X** key. Type the extension number.
- To assign a speed dial number to a key, on the Home screen or in the phone, hold the key.
- To turn on the speakerphone during a call, press the **Speakerphone** key. To turn off the speakerphone during a call, press the **Speakerphone** key.
- To check your voice mail, hold **1**.
- To type a letter in a phone number field, press the **Alt** key and the letter key.
- To move to the top of the Phone screen, press the **Space** key.
- To view the last phone number that you typed in the phone, press the **Space** key and the **Enter** key. Press the **Send** key to dial the number.
- To view your contact list in the phone, hold the **Send** key.
- To switch phone numbers, in the phone, click your active phone number. Click a phone number.

## Message shortcuts

### In a message

- To reply to a message, press **R**.
- To reply to all, press **L**.
- To forward a message, press **F**.
- To file a highlighted email message, press **I**.
- To view the email address of a contact, in a message, highlight the contact. Press **Q**. To view the display name, press **Q**.

#### In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press **C**.
- To mark a message as opened or unopened, press the **Alt** key and **U**.
- To view received messages, press the **Alt** key and **I**.
- To view sent messages, press the **Alt** key and **O**.
- To view voice mail messages, press the **Alt** key and **V**.
- To view SMS text messages, press the **Alt** key and **S**.
- To view call logs, press the **Alt** key and **P**.
- To view all your messages, press the **Escape** key.

#### Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **T**.
- To move to the bottom of a message list, press **B**.
- To move to the next date, press **N**.
- To move to the previous date, press **P**.
- To move to the next unopened item, press **U**.
- To move to the next related message, press **J**.
- To move to the previous related message, press **K**.

## Typing shortcuts

- To insert a period, press the **Space** key twice. The next letter is capitalized.
- To capitalize a letter, hold the letter key until the capitalized letter appears.
- To type the alternate character on a key, press the **Alt** key and the character key.
- To type an accented or special character, hold the letter key and roll the trackwheel. For example, to type ü, hold **U** and roll the trackwheel up until ü appears. Release the letter key when the accented or special character appears.
- To type a number in a number field, press a number key. You do not need to press the **Alt** key.
- To type a number in a text field, hold the **Alt** key and press the number key.
- To turn on NUM lock, press the **Alt** key and the **Left Shift** key. To turn off NUM lock, press the **Shift** key.

- To turn on CAP lock, press the **Alt** key and the **Right Shift** key. To turn off CAP lock, press the **Shift** key.
- To switch typing input languages, in the device options, on the Language screen, verify that the **Use Input Language Shortcut** field is set to **Yes**. Hold the **Alt** key and press the **Enter** key. Continue to hold the **Alt** key and highlight a language. Release the **Alt** key.

#### Insert symbols

- To insert an at sign (@) or a period (.) in an email address field, press the **Space** key.
- To type a symbol, press the **Symbol** key. Type the letter that appears below the symbol.
- To type the currency symbol assigned to the **Currency** key, press the **Currency** key.

#### Work with text

- To highlight a line of text, press the **Shift** key and roll the trackwheel.
- To highlight text character by character, hold the **Shift** key and roll the trackwheel.
- To cancel a text selection, press the **Escape** key.
- To cut highlighted text when typing, press the **Shift** key and the **Backspace/Delete** key.
- To copy highlighted text when typing, press the **Alt** key and click the trackwheel.
- To paste highlighted text when typing, press the **Shift** key and click the trackwheel.

## Search shortcuts

- To search for a contact in a list of contacts, type the contact name or initials separated by a space.
- To search for text in a message, press **S**.
- To search for text in an attachment or on a web page, press **F**.
- To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view. Press **F**.

## Attachment shortcuts

- To search for text in an attachment, press **F**.
- To move to the last cursor position after closing and reopening an attachment, press **G**.

#### In a spreadsheet

- To move to a specific cell, press **G**.
- To view the content of a cell, press the **Space** key.
- To switch worksheets, press **V**. Highlight a worksheet. Press the **Enter** key.
- To view hidden columns or rows, press **H**. To hide the columns or rows, press **H**.

#### In a presentation

- To switch presentation views, press **M**.
- To move to the next slide, press **N**.
- To move to the previous slide, press **P**.

- To move to the last cursor position after closing and reopening a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view. Press **G**.

## Browser shortcuts

- To insert a period (.) in the Go To dialog box, press the **Space** key.
- To insert a slash mark (/) in the Go To dialog box, press the **Shift** key and the **Space** key.
- To stop loading a web page, press the **Escape** key.
- To close the browser, hold the **Escape** key.

### On a web page

- To move to a specific web page, press **G**.
- To return to the home page, press **H**.
- To open the bookmark list, press **K**.
- To add a bookmark, press **A**.
- To view a list of web pages that you have visited recently, press **I**.
- To refresh a web page, press **R**.
- To view the web page address for a link, highlight a link. Press **L**.
- To view the web page address for a web page, press **P**.
- To save a web page to a message list, press **S**.
- To follow a highlighted link, press the **Enter** key.
- To hide the banner, press **U**. To view the banner, press **U**.
- To view a thumbnail version of a web page, press **X**. To return to the normal view, press any key.
- To open the browser options, in the browser, press **O**.
- To hide the browser, press **D**.

### Navigate a web page

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a web page, press **T**.
- To move to the bottom of a web page, press **B**.

## Media shortcuts

- To rotate a picture, press **R**.
- To zoom in to a picture, press **I**. To zoom to the original picture size, press **W**.
- To zoom out from a picture, press **O**. To zoom to the original picture size, press **W**.



## Map shortcuts

- To pan a map, press the number key that corresponds to the direction in which you want to pan.
- To zoom in to a map, press **I**.
- To zoom out from a map, press **O**.
- To view status information at the top of a map, press **U**. To hide status information at the top of a map, press **U**.
- To view tracking information at the bottom of a map, press the **Space** key. To hide tracking information at the bottom of a map, press the **Space** key.
- To move to the next direction on a route, press **N**.
- To move to the previous direction on a route, press **P**.

## Calendar shortcuts

For shortcuts to work in Day view, in the calendar options, set the **Enable Quick Entry** field to **No**.

- To schedule an appointment, press **C**.
- To change to Agenda view, press **A**.
- To change to Day view, press **D**.
- To change to Week view, press **W**.
- To change to Month view, press **M**.
- To move to the next day, week, or month, press the **Space** key.
- To move to the previous day, week, or month, press the **Shift** key and the **Space** key.
- To move the cursor horizontally in Week view, hold the **Alt** key and roll the trackwheel.
- To move the cursor vertically in Month view, hold the **Alt** key and roll the trackwheel.
- To move to the current date, press **T**.
- To move to a specific date, press **G**.



# Phone

## Phone basics


### Find your phone number

In the phone, your phone number appears at the top of the screen. If you have more than one phone number associated with your BlackBerry® device, your active phone number appears at the top of the screen.

### Make a call

1. On the Home screen or in the phone, perform one of the following actions:
  - Type a phone number.
  - Type part of a contact name. Highlight a contact or phone number.

2. Press the  key.

To end the call, press the  key.

### Answer a call

Press the **Send** key.

To end the call, press the **End** key.

### Answer a second call

1. Click the trackwheel.
2. Perform one of the following actions:
  - To answer the incoming call and hold the current call, click **Answer - Hold Current**.
  - To answer the incoming call and end the current call, click **Answer - Drop Current**.

### Ignore a call

Press the **End** key.

### Mute a call

During a call, press the **Mute** key.

To turn mute off, press the **Mute** key again.

## Place a call on hold

1. During a call, click the trackwheel.
2. Click **Hold**.

To resume a call, click the trackwheel. Click **Resume**.

## Turn on the speakerphone

During a call, press the **Speakerphone** key.

Do not hold the BlackBerry® device near your ear while you use the speakerphone. Hearing damage can occur. For more information, see the safety and product information booklet for your device.

## Turn off the speakerphone

To turn off the speakerphone during a call, press the **Speakerphone** key.

## Dial using numbers or letters

When you type a letter in a phone number, your BlackBerry® device dials the number that is associated with the letter on a conventional phone keypad.

- To type a number, press a number key.
- To type a letter, hold the **Alt** key. Press the letter key.

## Switch applications during a call

1. During a call, click the trackwheel.
2. Click **Home Screen**.

**Note:** If you switch to a different application and you want to end the call, press the **End** key.

## Switch calls

1. Click the trackwheel.
2. Click **Swap**.

## Make a call when the device is locked

Verify that dialing from the Lock screen is turned on.

1. On the Lock screen, roll the trackwheel.
2. Click **Place Call**.
3. Perform one of the following actions:
  - Type a phone number.
  - Type part of a contact name. Click a contact or phone number.

4. Press the **Send** key.

To end the call, press the **End** key.

## Use a headset

You can purchase an optional headset to use with your BlackBerry® device.

- To answer a call, press the headset button.
- To turn on mute during a call, press the headset button. To turn off mute, press the headset button again.
- To end a call, hold the headset button.

For more information about using the headset, see the documentation that came with your headset.

## Emergency calls

### About emergency calls

Your BlackBerry® device is designed to make emergency calls even when it is locked or the SIM card is not inserted. If the connection to the wireless network is turned off when you initiate an emergency call, your device is designed to connect to the wireless network automatically. If you are outside of a wireless coverage area and the SOS wireless coverage indicator appears, you can only call emergency numbers.

You can only make emergency calls by typing official emergency access numbers (for example, 911 in North America or 112 in countries that are part of the European Union).

### Make an emergency call

- If your keyboard or BlackBerry® device is unlocked, in the phone, type the emergency number. Press the **Send** key.
- If your keyboard or device is locked, press the **Enter** key. Click **Emergency Call**. Click **Yes**.

## Volume

### Adjust the volume

- To increase the volume, roll the trackwheel up.
- To decrease the volume, roll the trackwheel down.

### Change the default volume for calls

You can increase or decrease the default volume for calls. The higher the volume percentage, the louder the volume.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.

4. Change the **Default Call Volume** field.
5. Click the trackwheel.
6. Click **Save**.

## Voice mail

### Check your voice mail

Verify that you have a voice mail access number.

Depending on your theme, you might be able to check your voice mail from the Home screen.

1. In the phone, click the trackwheel.
2. Click **Call Voice Mail**.

### Change the voice mail access number

If a voice mail access number is not already set on your BlackBerry® device, you can type the access number for a different voice mail system. If you have more than one phone number associated with your device, you can only set the voice mail access number for the active phone number.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Voice Mail**.
4. Type a voice mail access number and a password.
5. Click the trackwheel.
6. Click **Save**.

## Speed dial

### Make a call using speed dial

You can make a call using speed dial in the phone, on the Home screen, in a message list, or in an open message.

Hold the key that you have assigned to the contact or phone number.

### Assign a speed dial number to a key

1. In the phone, click the trackwheel.
2. Click **View Speed Dial List**.
3. Click an unassigned key.
4. Click **New Speed Dial**.
5. Click a contact.

6. Click **Add Speed Dial To** <contact name>.

## Change the contact assigned to a speed dial key

1. In the phone, click the trackwheel.
2. Click **View Speed Dial List**.
3. Click a contact or phone number.
4. Perform one of the following actions:
  - To change the contact that is assigned to a speed dial key, click **Edit**. Click a new contact. Click **Add Speed Dial To** <contact name>.
  - To assign the contact to a different speed dial key, click **Move**. Roll the trackwheel to move the contact to the new speed dial key. Click the trackwheel.
  - To delete the contact from the speed dial list, click **Delete**.

## Conference calls

### Make a conference call

1. During a call, press the **Send** key.
2. Type a phone number or highlight a contact.
3. Press the **Send** key.
4. During the second call, click the trackwheel.
5. Click **Join**.

**Note:** When you add more than two numbers to a conference call, place the conference call on hold before you call the next phone number or contact.

### Create a phone number link for a conference call

1. Type a phone number for the conference call bridge.
2. Perform one of the following actions:
  - Type **X** and the access code.
  - Insert a pause or wait and type the access code.

**Note:** If you add a pause or wait when creating a phone number link for a conference call in a message, an appointment, or a meeting, type **Tel:** before the phone number for the conference call bridge. Do not type a space between Tel: and the phone number.

### Speak privately with a contact during a conference call

1. During a conference call, click the trackwheel.
2. Click **Split Call**.

3. Click a contact.

To return to the conference call, click the trackwheel. Click **Join**.

## Disconnect a contact from a conference call

1. During a conference call, click the trackwheel.
2. Click **Drop Call**.
3. Click a contact.

## Leave a conference call

Verify that your wireless service provider supports this feature.

If you make a conference call, you can leave the conference call and the call continues without you.

1. During a conference call, click the trackwheel.
2. Click **Transfer**.

## Caller ID

### Add a caller ID picture for a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Add Picture**.
4. Highlight a picture.
5. Click the trackwheel.
6. Click **Select**.
7. Center the picture in the box.
8. Click the trackwheel.
9. Click **Crop and Save**.

### Change the caller ID picture for a contact

1. When changing a contact, highlight the caller ID picture.
2. Click the trackwheel.
3. Click **Add Picture**.
4. Highlight a picture.
5. Click the trackwheel.
6. Click **Select**.
7. Center the picture in the box.



8. Click the trackwheel.
9. Click **Save**.

## Delete the caller ID picture for a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Edit**.
4. Click the caller ID picture.
5. Click **Delete Picture**.
6. Click the trackwheel.
7. Click **Save**.

## Call logs

### About call logs

Call logs include the date on which you called your contact, the phone number that you called, and the duration of the call. You can also add notes to your call logs. You can view call logs in the phone or, depending on how you set your call logging options, you can view call logs in a message list. Depending on your theme, missed calls might also appear on the Home screen.

Your BlackBerry® device stores call logs for 30 days.

### View call logs in a message list

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Logging**.
4. Select a call log type option.

To hide call logs in a message list, select the **None** option.

### Add notes to a call log

1. In the phone, highlight a call log.
2. Click the trackwheel.
3. Click **View History**.
4. Click the trackwheel.
5. Click **Add Notes**.
6. Type call notes.
7. Click the trackwheel.

8. Click **Save**.

## Change call log notes

1. In the phone, highlight a call log.
2. Click the trackwheel.
3. Click **View History**.
4. Click the trackwheel.
5. Click **Edit Notes**.
6. Change the call notes.
7. Click the trackwheel.
8. Click **Save**.

## Forward a call log

1. In the phone, highlight a call log.
2. Click the trackwheel.
3. Click **View History**.
4. Click the trackwheel.
5. Click **Forward**.

## Delete call log notes

1. In the phone, highlight a call log.
2. Click the trackwheel.
3. Click **View History**.
4. Click the trackwheel.
5. Click **Edit Notes**.
6. Click the trackwheel.
7. Click **Clear Field**.
8. Click the trackwheel.
9. Click **Save**.

## Call waiting

### Prerequisites: Call waiting

- Verify that your wireless service plan includes this service.

- Verify that your wireless service provider has set up your SIM card for this service.

## Turn on call waiting

If you have more than one phone number associated with your BlackBerry® device, you can change call waiting options for the active number only.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Waiting**.
4. Change the **Call Waiting Enabled** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

To turn off call waiting, change the **Call Waiting Enabled** field to **No**.

## Call forwarding

### About call forwarding

Depending on your wireless service provider, one or more call forwarding phone numbers might already be available on your SIM card. You might not be able to change or delete these phone numbers or add new ones. If you have more than one phone number associated with your BlackBerry® device, you can only change call forwarding options for the active phone number.

For more information, contact your wireless service provider.

### Prerequisites: Call forwarding

- Verify that your wireless service plan includes this service.
- Verify that your wireless service provider has set up your SIM card for this service.

### Forward calls

Verify that you have one or more call forwarding phone numbers.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Click a call type.
5. Click **Do Not Forward** or the current call forwarding phone number.
6. Click **Change Number**.
7. Click a call forwarding phone number.
8. Click the trackwheel.

9. Click **Save**.

To stop forwarding calls, set the call forwarding phone number to **Do Not Forward**.

## Add a call forwarding phone number

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Click the trackwheel.
5. Click **New Number**.
6. Type a phone number.
7. Press the **Enter** key.
8. Click the trackwheel.
9. Click **Close**.

## Change a call forwarding phone number

You can only change call forwarding phone numbers that you have added.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Click the trackwheel.
5. Click **Edit Numbers**.
6. Click a phone number.
7. Click **Edit**.
8. Change the phone number.
9. Click the trackwheel.

## Delete a call forwarding phone number

You can only delete call forwarding phone numbers that you have added.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Click the trackwheel.
5. Click **Edit Numbers**.
6. Click a phone number.
7. Click **Delete**.

## Call blocking

### About call blocking

You can block all incoming calls or block incoming calls only when your BlackBerry® device roams to another wireless network.

You can also block all outgoing calls and all outgoing international calls, or you can block outgoing international calls only when your device roams to another wireless network.

If you have more than one phone number associated with your device, you can change call blocking options for the active number only.

### Prerequisites: Call blocking

- Verify that your wireless service plan includes this service.
- Verify that your wireless service provider has set up your SIM card for this service.
- Verify that your wireless service provider has provided you with a call blocking password.

### Block calls

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Barring**.
4. Highlight a call blocking option.
5. Click the trackwheel.
6. Click **Enable**.
7. Type your call blocking password.

To stop blocking calls, highlight a call blocking option. Click the trackwheel. Click **Disable**.

### Change the call blocking password

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Barring**.
4. Click the trackwheel.
5. Click **Change Password**.

## Fixed dialing

### About fixed dialing

If you turn on fixed dialing, you can only make calls to contacts that appear in your fixed dialing list.

You can make an emergency call when fixed dialing is turned on, even if the emergency number does not appear in your fixed dialing list.

If your wireless service plan includes SMS text messaging, you can also send SMS text messages to contacts that appear in your fixed dialing list.

### Prerequisites: Fixed dialing

- Verify that your wireless service provider has set up your SIM card for this service.
- Verify that your wireless service provider has provided you with a SIM card PIN 2 code.

### Turn on fixed dialing

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **FDN Phone List**.
4. Click the trackwheel.
5. Click **Enable FDN Mode**.
6. Type your PIN2 code.
7. Click the trackwheel.

To turn off fixed dialing, click the trackwheel. Click **Disable FDN Mode**.

### Add a contact to your fixed dialing list

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **FDN Phone List**.
4. Click the trackwheel.
5. Click **New**.
6. Type your PIN2 code.
7. Click the trackwheel.
8. Type a name and a phone number.
9. Click the trackwheel.
10. Click **Save**.

## Change a contact in your fixed dialing list

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **FDN Phone List**.
4. Highlight a contact.
5. Click the trackwheel.
6. Click **Edit**.
7. Change the contact information.
8. Click the trackwheel.
9. Click **Save**.

## Delete a contact from your fixed dialing list

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **FDN Phone List**.
4. Highlight a contact.
5. Click the trackwheel.
6. Click **Delete**.

## Smart dialing

### About smart dialing

You can specify default country and area codes so that any numbers that are specified as links, or any numbers in your address book that do not contain these codes, are dialed correctly.

If you call an organization frequently, you can also set your smart-dialing options so that you do not have to type the main number for the organization.

### Set the default country code and area code

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Smart Dialing**.
4. Set the **Country Code** and **Area Code** fields.
5. In the **National Number Length** field, set the default length for phone numbers in your country.
6. Click the trackwheel.

7. Click **Save**.

**Note:** When you calculate the default length for phone numbers, include your area code and local number, but do not include your country code or the National Direct Dialing prefix.

## Set options for dialing extensions

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Smart Dialing**.
4. In the **Number** field, type the main phone number for an organization.
5. Set how long the BlackBerry® device waits before dialing an extension.
6. In the **Extension Length** field, set the default length for extensions.
7. Click the trackwheel.
8. Click **Save**.

## TTY support

### About TTY support

When you turn on TTY support and you connect your BlackBerry® device to a TTY device, you can make calls to and receive calls from TTY devices. Your BlackBerry device is designed to convert received calls to text that you can read on your TTY device.

### Prerequisites: TTY support

- Verify that your wireless service provider supports this feature.
- Verify that your TTY device operates at 45.45 bits per second.
- Verify that you have inserted the TTY device connector into your BlackBerry® device headset jack.

### Turn on TTY support

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **TTY**.
4. Set the **TTY Mode** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

A TTY indicator appears in the device status section of the screen.

To turn off TTY support, set the **TTY Mode** field to **No**.



## Multiple phone numbers

### About multiple phone numbers

Your SIM card might support more than one phone number, or your BlackBerry® device might be associated with a phone number provided by your wireless service provider and an enterprise voice phone number provided by your organization.

If you have more than one phone number associated with your device, you can switch the phone number that you use as your active phone number. You can receive calls to all phone numbers that are associated with your device, but you make calls using your active phone number. During a call, you can use your active phone number only. For example, you cannot place one call on hold and make a second call using another phone number.

### Switch the active phone number

1. In the phone options, click **General Options**.
2. Change the **Active Line** field.
3. Click the trackwheel.
4. Click **Save**.

## Phone options

### Hide your phone number from contacts when you make calls

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Restrict My Identity** field to **Always**.
5. Click the trackwheel.
6. Click **Save**.

### Turn on dialing from the Lock screen

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Allow Outgoing Calls While Locked** field to **Yes**.
4. Click the trackwheel.
5. Click **Save**.

## Sort phone numbers or contacts on the Phone screen

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:
  - To sort phone numbers or contacts by frequency of use, set the **Phone List View** field to **Most Used**.
  - To sort contacts alphabetically by contact name, set the **Phone List View** field to **Name**.
  - To sort phone numbers or contacts by recency of use, set the **Phone List View** field to **Most Recent**.
5. Click the trackwheel.
6. Click **Save**.

To sort phone numbers or contacts by call logs again, set the **Phone List View** field to **Call Log**.

## Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## Stop ending calls when you insert your device in the holster

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Auto End Calls** field to **Never**.
5. Click the trackwheel.
6. Click **Save**.

## Stop answering calls when you remove your device from the holster

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Auto Answer Calls** field to **Never**.
5. Click the trackwheel.

6. Click **Save**.

## Reset a call timer

1. In the phone, click the trackwheel.
2. Click **Status**.
3. Click **Last Call** or **Total Calls**.
4. Click **Clear Timer**.
5. Click the trackwheel.
6. Click **Save**.

## Phone shortcuts

- To answer a call, press the **Send** key.
- To insert a plus sign (+) when typing a phone number, hold **0**.
- To add an extension to a phone number, press the **Alt** key and the **X** key. Type the extension number.
- To assign a speed dial number to a key, on the Home screen or in the phone, hold the key.
- To turn on the speakerphone during a call, press the **Speakerphone** key. To turn off the speakerphone during a call, press the **Speakerphone** key.
- To check your voice mail, hold **1**.
- To type a letter in a phone number field, press the **Alt** key and the letter key.
- To move to the top of the Phone screen, press the **Space** key.
- To view the last phone number that you typed in the phone, press the **Space** key and the **Enter** key. Press the **Send** key to dial the number.
- To view your contact list in the phone, hold the **Send** key.
- To switch phone numbers, in the phone, click your active phone number. Click a phone number.

## Phone troubleshooting

### I cannot make or receive calls

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you cannot make calls and fixed dialing is turned on, verify that the phone number for your contact appears in your fixed dialing list or turn off fixed dialing.
- If you have traveled to another country and you have not changed your smart-dialing options, dial the full phone number, including the country code and area code, for your contact.
- If you are not receiving calls, verify that call blocking and call forwarding are turned off.

- If your SIM card supports more than one phone number, but you have only one phone number, verify that the phone number is set as the primary number.

## My phone number appears as Unknown in the phone

Try changing the phone number on your SIM card to change how your phone number appears in the phone. In the device options, click **Advanced Options**. Click **SIM Card**. Click the trackwheel. Click **Edit SIM Phone Number**. Type your phone number. Click the trackwheel.

**Note:** If you change the phone number on your SIM card, you do not change the phone number that your BlackBerry® device uses to make and receive calls.

## I cannot check my voice mail

If you have more than one phone number associated with your BlackBerry® device and you are trying to check your voice mail using a shortcut key, your device calls the voice mail access number for your active phone number.

Try checking the voice mail for your alternate phone number.

## I cannot join a call

If your BlackBerry® device is associated with an enterprise voice phone number, you cannot join a call that you make from or receive to your enterprise voice phone number with a call that you make from or receive to the phone number provided by your wireless service provider.

# Email messages

## Email message basics

### Open a message

1. In a message list, click a message.
2. Click **Open**.

**Note:** If your BlackBerry® device is associated with more than one email address, you might be able to open messages from the message list for a specific email address.

### Send an email message

1. In a message list, click the trackwheel.
2. Click **Compose Email**.
3. In the **To** field, perform one of the following actions:
  - Type an email address.
  - Type a contact name.
  - Type part of a contact name. Click a contact.
4. Type a message.
5. Click the trackwheel.
6. Click **Send**.

**Note:** If your BlackBerry® device is associated with more than one email address, in the Send Using field, you can set the email address that you want to use to send the email message.

### Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
  - To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Save a draft of a message

1. When composing a message, click the trackwheel.
2. Click **Save Draft**.

## Blind carbon copy a contact

1. When composing a message, click the trackwheel.
2. Click **Add Bcc**.

## Attach a contact to a message

1. When composing a message, click the trackwheel.
2. Click **Attach Address**.
3. Click a contact.
4. Click **Continue**.

## Set the importance level for a message

1. When composing a message, click the trackwheel.
2. Click **Options**.
3. Set the **Importance** field.
4. Click the trackwheel.
5. Click **Save**.

## Save a message

1. In a message, click the trackwheel.
2. Click **Save**.

## Reply to a message

1. In a message, click the trackwheel.
2. Click **Reply** or **Reply to All**.

## Delete the original text from a reply message

1. When replying to a message, click the trackwheel.
2. Click **Delete Original Text**.

## Forward a message

1. In a message, click the trackwheel.
2. Perform one of the following actions:
  - Click **Forward**.
  - Click **Forward As**. Click a message type.

## Delete a message

1. In a message, click the trackwheel.
2. Click **Delete**.

## Delete multiple messages

1. In a message list, highlight a date field.
2. Click the trackwheel.
3. Click **Delete Prior**.

**Note:** Email messages that you delete using the Delete Prior menu item are not deleted from the email application on your computer during email reconciliation.

## Mark a message as opened or unopened

In a message list, perform one of the following actions:

- Highlight a message. Click the trackwheel. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Click the trackwheel. Click **Mark Prior Opened**.

## Create a link for a PIN

You can create a link for a PIN in messages, memos, tasks, or calendar entries. If you click the link, you can send a PIN message. When typing text, type **pin:** and the PIN.

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## Email message folders

### File an email message

Verify that wireless email reconciliation is turned on.

1. In a message list, highlight an email message.
2. Click the trackwheel.
3. Click **File**.
4. Click an email message folder.
5. Click **File**.

### Add, change, or delete an email message folder

You can add, change, or delete the email message folder in the email application on your computer. If wireless email reconciliation is turned on, your BlackBerry® device receives changes that you make to the email message folder on your computer over the wireless network.

If wireless email reconciliation is turned off or is not available for your device, reconcile the changes using the email settings tool of the BlackBerry Desktop Manager. See the *BlackBerry Desktop Software Online Help* for more information about email reconciliation.

### Hide filed email messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Hide Filed Messages** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

### View messages in a specific folder

1. In a message list, click the trackwheel.
2. Click **View Folder**.
3. Click a folder.
4. Click **Select Folder**.



## Sent messages

### Resend a message

1. In a sent message, click the trackwheel.
2. Perform one of the following actions:
  - To change the message, click **Edit**. Change the message. Click the trackwheel. Click **Send**.
  - To change the recipients, click **Edit**. Highlight a contact. Click the trackwheel. Click **Change Address**. Click a new contact. Click the trackwheel. Click **Send**.
  - To resend the message without changing it, click **Resend**.

### Stop a message from sending

Verify that you are not in a wireless coverage area and your BlackBerry® device is not connected to the wireless network. A clock icon should appear beside the message.

1. In a message list, highlight the message.
2. Click the trackwheel.
3. Click **Delete**.

### Hide sent messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Hide Sent Messages** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

**Note:** If you set your device to hide sent messages, sent messages continue to appear in the history of SMS text messages.

### Stop storing messages sent from your device on your computer

By default, a copy of messages that you send from your BlackBerry® device appears in the sent items folder in the email application on your computer.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. Set the **Save Copy In Sent Folder** field to **No**.
5. Click the trackwheel.
6. Click **Save**.

## Stop storing messages sent from your computer on your device

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. Click the trackwheel.
5. Click **Folder Redirection**.
6. Clear the check box beside the **Sent Items** folder.
7. Click the trackwheel.
8. Click **Save**.

## Email message filters

### About email message filters

You can create email message filters to specify which email messages are forwarded to your BlackBerry® device and which remain in the email application on your computer.

Email message filters are applied to email messages based on the order in which they appear in your list of email message filters. If you create multiple email message filters that could apply to the same email message, you must decide which one should be applied first by placing that filter higher in the list.

### Create an email message filter

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator. If you use the BlackBerry® Internet Service, see the *BlackBerry Internet Service Online Help* for more information.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Filters**.
4. Click the trackwheel.
5. Click **New**.
6. Type a name for the email message filter.
7. Set the email message filter options.
8. Click the trackwheel.
9. Click **Save**.

### Create an email message filter based on a contact or subject

1. In a message list, highlight an email message.

2. Click the trackwheel.
3. Click **Filter Sender** or **Filter Subject**.
4. Type a name for the email message filter.
5. Set the email message filter options.
6. Click the trackwheel.
7. Click **Save**.

## Email message filter options

### **From:**

Specify one or more contacts or email addresses that the email message filter should search for in the From field of email messages. Separate multiple contacts or email addresses with a semicolon (;). To specify that the email message filter should search for all contacts or email messages that contain specific text, type the text and use an asterisk (\*) as a wildcard character to represent the rest of the contact or email address.

### **Sent To:**

Specify one or more contacts or email addresses that the email message filter should search for in the Sent To field of email messages. Separate multiple contacts or email addresses with a semicolon (;). To specify that the email message filter should search for all contacts or email messages that contain specific text, type the text and use an asterisk (\*) as a wildcard character to represent the rest of the contact or email address.

### **Subject:**

Type text that the email message filter should search for in the subject of email messages.

### **Message:**

Type text that the email message filter should search for in the body of email messages.

### **Sent directly to me:**

Set whether the email message filter applies to email messages that include your email address in the To field.

### **CC to me:**

Set whether the email message filter applies to email messages that include your email address in the CC field.

### **BCC to me:**

Set whether the email message filter applies to email messages that include your email address in the BCC field.

### **Importance:**

Set the importance level of email messages that the email message filter applies to.

### **Sensitivity:**

Set the sensitivity level of email messages that the email message filter applies to.

### **Action:**

Set whether email messages that the email message filter applies to are forwarded to your BlackBerry® device. If email messages are forwarded, specify whether they are forwarded with high importance or with the email message header only.

### Turn on an email message filter

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Filters**.
4. Select the check box beside an email message filter.

### Change an email message filter

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Filters**.
4. Highlight an email message filter.
5. Click the trackwheel.
6. Click **Edit**.
7. Change the email message filter options.
8. Click the trackwheel.
9. Click **Save**.

### Change the order of email message filters

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Filters**.
4. Highlight an email message filter.
5. Click the trackwheel.
6. Click **Move**.
7. Roll the trackwheel to the new location.
8. Click the trackwheel.

### Forward email messages to your device when no filters apply

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator. If you use the BlackBerry® Internet Service, see the *BlackBerry Internet Service Online Help* for more information.

1. In a message list, click the trackwheel.
2. Click **Options**.

3. Click **Email Filters**.
4. Set the **If no filters apply, send email to handheld** option to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

## Delete an email message filter

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Filters**.
4. Highlight an email message filter.
5. Click the trackwheel.
6. Click **Delete**.

## Email message forwarding

### Forward messages from a specific email message folder to your device

Verify that your BlackBerry® device is associated with an email account that uses BlackBerry Enterprise Server version 4.0 or later.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. Click the trackwheel.
5. Click **Folder Redirection**.
6. Select the check box beside an email message folder.
7. Click the trackwheel.
8. Click **Save**.

**Note:** If you click the Select All menu item, all email messages, including email messages that appear in the sent items folder in the email application on your computer, appear on your device.

### Stop forwarding email messages to your device

Verify that your BlackBerry® device is associated with an email account that uses BlackBerry Enterprise Server version 4.0 or later.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. Set the **Send Email to Handheld** field to **No**.
5. Click the trackwheel.
6. Click **Save**.

To forward email messages to your device again, set the **Send Email to Handheld** field to **Yes**.

## Block incoming messages

If your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server, you might not be able to block PIN messages from contacts in your organization. For more information, contact your system administrator.

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Select the check box beside one or more message types.
4. Click the trackwheel.
5. Click **Save**.

**Note:** Blocked messages might contribute to your wireless service plan data usage. You can prevent messages from being forwarded to your device without contributing to data usage by turning off email message forwarding or using email message filters.

## Reset a blocked message counter

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Highlight a message type.
4. Click the trackwheel.
5. Click **Reset Count** or **Reset All Counts**.

## Message options

### Check spelling automatically before sending email messages

1. In the device options, click **Spell Check**.
2. Select the **Spell Check Email Before Sending** option.
3. Click the trackwheel.
4. Click **Save**.

### Request delivery or read confirmation for email messages

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry Internet Service.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. In the **Delivery Status Notification** section, perform any of the following actions:
  - To send read notification when a sender requests it, set the **Send Read Receipts** field.

- To request delivery or read notification when you send email messages, set the **Confirm Delivery** and **Confirm Read** fields.
5. Click the trackwheel.
  6. Click **Save**.

## View an address instead of a display name

1. In a message, click a contact.
2. Click **Show Address**.

To view the display name again, click a contact. Click **Show Name**.

## Add a signature

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator. If you use the BlackBerry® Internet Service, see the *BlackBerry Internet Service Online Help* for more information.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. Set the **Use Auto Signature** field to **Yes**.
5. Type a signature.
6. Click the trackwheel.
7. Click **Save**.

Your signature is added to email messages after you send them.

## Set an out-of-office reply

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Settings**.
4. Set the **Use Out Of Office Reply** field to **Yes**.
5. Type a reply.
6. If you use IBM® Lotus Notes®, in the **Until** field, set the date on which the out-of-office reply should turn off.
7. Click the trackwheel.
8. Click **Save**.

To turn off the out-of-office reply, set the **Use Out Of Office Reply** field to **No**.

## Change the email address that you use to send messages or meeting invitations

Verify that your BlackBerry® device is associated with more than one email address.

1. In the device options, click **Advanced Options**.
2. Click **Default Services**.
3. Change the **Messaging (CMIME)** field.
4. Click the trackwheel.
5. Click **Save**.

## Delete the disclaimer from an email message

If your BlackBerry® device is associated with an email account that uses BlackBerry Enterprise Server version 4.0 or later, the BlackBerry Enterprise Server might add a disclaimer to email messages after you send them. You cannot change this disclaimer.

1. When composing an email message, click the trackwheel.
2. Click **Remove Disclaimer**.

To add the disclaimer again, click the trackwheel. Click **Add Disclaimer**.

## Use color to differentiate work messages from other messages

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Perform any of the following actions:
  - To set a background color for email messages that are sent to your device through a BlackBerry Enterprise Server, set the **Enterprise Messages** field.
  - To set a background color for messages that are not sent to your device through a BlackBerry Enterprise Server, set the **Other Messages** field.
4. Click the trackwheel.
5. Click **Save**.

**Note:** PIN messages might use the background color that you have set for work email messages. Contact your system administrator for more information.

## Message list options

### Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.



## View more of the subject line for messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform any of the following actions:
  - Set the **Display Message Header On** field to **2 lines**.
  - Set the **Display Time** and **Display Name** fields to **No**.
5. Click the trackwheel.
6. Click **Save**.

## Set how long your device stores messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Keep Messages** field.
5. Click the trackwheel.
6. Click **Save**.

To restore messages, set the **Keep Messages** field to a longer period of time. Messages that you received on your BlackBerry® device within the set period of time appear in a message list.

## About multiple message lists

Depending on your email setup option, you might be able to associate your BlackBerry® device with more than one email account. For example, you might be able to associate your device with a work email account and one or more personal email accounts. If you associate your device with more than one email account, multiple message lists might appear on your device. In a message list for a specific email account, you can open and manage email messages for that email account, and you can send messages using the email address for the email account. See the *BlackBerry Internet Service Online Help* for more information about associating your device with more than one email account.

Depending on your theme, a separate message list might appear for SMS and MMS messages.

## Use one message list or multiple message lists

By default, your BlackBerry® device theme determines whether SMS text messages appear in the same message list as email messages.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:

- To use one message list for all messages, set the **SMS and Email Inboxes** field to **Combined**.
  - To separate SMS text messages from email messages, set the **SMS and Email Inboxes** field to **Separate**.
5. Click the trackwheel.
  6. Click **Save**.

## Hide the new or unopened message indicator

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Display Message Count** field to **None**.
5. Click the trackwheel.
6. Click **Save**.

To view the number of unopened messages again, set the **Display Message Count** field to **Unread**. To view the new message indicator, set the **Display New Message Indicator** field to **Yes**.

## View call logs in a message list

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Logging**.
4. Select a call log type option.

To hide call logs in a message list, select the **None** option.

## Message shortcuts

### In a message

- To reply to a message, press **R**.
- To reply to all, press **L**.
- To forward a message, press **F**.
- To file a highlighted email message, press **I**.
- To view the email address of a contact, in a message, highlight the contact. Press **Q**. To view the display name, press **Q**.

### In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press **C**.
- To mark a message as opened or unopened, press the **Alt** key and **U**.
- To view received messages, press the **Alt** key and **I**.
- To view sent messages, press the **Alt** key and **O**.

- To view voice mail messages, press the **Alt** key and **V**.
- To view SMS text messages, press the **Alt** key and **S**.
- To view call logs, press the **Alt** key and **P**.
- To view all your messages, press the **Escape** key.

#### Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **T**.
- To move to the bottom of a message list, press **B**.
- To move to the next date, press **N**.
- To move to the previous date, press **P**.
- To move to the next unopened item, press **U**.
- To move to the next related message, press **J**.
- To move to the previous related message, press **K**.

## Message troubleshooting

### I cannot send messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- If the menu item for sending a message does not appear, verify that you have added an email address or PIN for your contact.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Generate an encryption key.
- Verify that data service is turned on.
- Resend the message.

### I am not receiving messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.

- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Verify that data service is turned on.
- If you use email message filters, verify that the options for email message filters are set correctly.
- Verify that email message forwarding is turned on and that you have selected all the email message folders, including your inbox folder, that you want to receive email messages from.
- Verify that your device is not blocking messages. For more information, contact your system administrator.

## I cannot file email messages

Try performing the following actions:

- Verify that wireless email reconciliation is turned on.
- If your email message folders do not appear on your BlackBerry® device, reconcile your email messages using the email settings tool of the BlackBerry Desktop Manager. See the *BlackBerry Desktop Software Online Help* for more information.

## I received notification of a new message, but no new messages appear in my message list

If you have set your BlackBerry® device to hide filed messages and you receive a new message from an email message folder in the email application on your computer other than your inbox, your device files the message.

## Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

## A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

## Some email message folders appear dimmed

If you cannot forward email messages from an email message folder, the check box beside the folder appears dimmed.

Try performing the following actions:

- Wait for a few seconds. The email message folders might become available after a short period of time.
- Turn off wireless email reconciliation, and then turn it on again.

## **Email message filters are not working correctly**

Try performing the following actions:

- Verify that your email message filters are turned on.
- Verify that your email message filters appear in the order that you want your BlackBerry® device to apply them to email messages.

## **I cannot use a shortcut to view one type of message in a message list**

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.



# PIN messages

## PIN message basics

### About PIN messages

A PIN uniquely identifies each BlackBerry® device on the network. If you know the PIN of another BlackBerry device user, you can send a PIN message to that person. PIN messages are not routed through your email account.

When your PIN message is delivered to the recipient, in a message list, a D appears with a check mark beside the PIN message.

### Find your PIN

In the device options, click **Status**.

### Open a message

1. In a message list, click a message.
2. Click **Open**.

**Note:** If your BlackBerry® device is associated with more than one email address, you might be able to open messages from the message list for a specific email address.

### Send a PIN message

1. In a message list, click the trackwheel.
2. Click **Compose PIN**.
3. In the **To** field, perform one of the following actions:
  - Type a PIN number. Click the trackwheel.
  - Type a contact name. Click the trackwheel.
  - Type part of a contact name. Click a contact.
4. Type a message.
5. Click the trackwheel.
6. Click **Send**.

### Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.

3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
  - To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Save a draft of a message

1. When composing a message, click the trackwheel.
2. Click **Save Draft**.

## Blind carbon copy a contact

1. When composing a message, click the trackwheel.
2. Click **Add Bcc**.

## Attach a contact to a message

1. When composing a message, click the trackwheel.
2. Click **Attach Address**.
3. Click a contact.
4. Click **Continue**.

## Set the importance level for a message

1. When composing a message, click the trackwheel.
2. Click **Options**.
3. Set the **Importance** field.
4. Click the trackwheel.
5. Click **Save**.

## Set a high importance level for received PIN messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Make PIN Messages Level 1** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.



## Save a message

1. In a message, click the trackwheel.
2. Click **Save**.

## Reply to a message

1. In a message, click the trackwheel.
2. Click **Reply** or **Reply to All**.

## Forward a message

1. In a message, click the trackwheel.
2. Perform one of the following actions:
  - Click **Forward**.
  - Click **Forward As**. Click a message type.

## Delete a message

1. In a message, click the trackwheel.
2. Click **Delete**.

## Delete multiple messages

1. In a message list, highlight a date field.
2. Click the trackwheel.
3. Click **Delete Prior**.

**Note:** Email messages that you delete using the Delete Prior menu item are not deleted from the email application on your computer during email reconciliation.

## Create a link for a PIN

You can create a link for a PIN in messages, memos, tasks, or calendar entries. If you click the link, you can send a PIN message. When typing text, type **pin:** and the PIN.

## Mark a message as opened or unopened

In a message list, perform one of the following actions:

- Highlight a message. Click the trackwheel. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Click the trackwheel. Click **Mark Prior Opened**.

## View an address instead of a display name

1. In a message, click a contact.
2. Click **Show Address**.

To view the display name again, click a contact. Click **Show Name**.

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## Sent messages

### Resend a message

1. In a sent message, click the trackwheel.
2. Perform one of the following actions:
  - To change the message, click **Edit**. Change the message. Click the trackwheel. Click **Send**.
  - To change the recipients, click **Edit**. Highlight a contact. Click the trackwheel. Click **Change Address**. Click a new contact. Click the trackwheel. Click **Send**.
  - To resend the message without changing it, click **Resend**.

### Stop a message from sending

Verify that you are not in a wireless coverage area and your BlackBerry® device is not connected to the wireless network. A clock icon should appear beside the message.

1. In a message list, highlight the message.
2. Click the trackwheel.
3. Click **Delete**.

### Hide sent messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Hide Sent Messages** field to **Yes**.

5. Click the trackwheel.
6. Click **Save**.

**Note:** If you set your device to hide sent messages, sent messages continue to appear in the history of SMS text messages.

## Message list options

### View more of the subject line for messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform any of the following actions:
  - Set the **Display Message Header On** field to **2 lines**.
  - Set the **Display Time** and **Display Name** fields to **No**.
5. Click the trackwheel.
6. Click **Save**.

### Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

### Set how long your device stores messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Keep Messages** field.
5. Click the trackwheel.
6. Click **Save**.

To restore messages, set the **Keep Messages** field to a longer period of time. Messages that you received on your BlackBerry® device within the set period of time appear in a message list.

## Hide the new or unopened message indicator

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Display Message Count** field to **None**.
5. Click the trackwheel.
6. Click **Save**.

To view the number of unopened messages again, set the **Display Message Count** field to **Unread**. To view the new message indicator, set the **Display New Message Indicator** field to **Yes**.

## Block incoming messages

If your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server, you might not be able to block PIN messages from contacts in your organization. For more information, contact your system administrator.

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Select the check box beside one or more message types.
4. Click the trackwheel.
5. Click **Save**.

**Note:** Blocked messages might contribute to your wireless service plan data usage. You can prevent messages from being forwarded to your device without contributing to data usage by turning off email message forwarding or using email message filters.

## Reset a blocked message counter

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Highlight a message type.
4. Click the trackwheel.
5. Click **Reset Count** or **Reset All Counts**.

## View call logs in a message list

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **Call Logging**.
4. Select a call log type option.

To hide call logs in a message list, select the **None** option.

## Message shortcuts

### In a message

- To reply to a message, press **R**.
- To reply to all, press **L**.
- To forward a message, press **F**.
- To file a highlighted email message, press **I**.
- To view the email address of a contact, in a message, highlight the contact. Press **Q**. To view the display name, press **Q**.

### In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press **C**.
- To mark a message as opened or unopened, press the **Alt** key and **U**.
- To view received messages, press the **Alt** key and **I**.
- To view sent messages, press the **Alt** key and **O**.
- To view voice mail messages, press the **Alt** key and **V**.
- To view SMS text messages, press the **Alt** key and **S**.
- To view call logs, press the **Alt** key and **P**.
- To view all your messages, press the **Escape** key.

### Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **T**.
- To move to the bottom of a message list, press **B**.
- To move to the next date, press **N**.
- To move to the previous date, press **P**.
- To move to the next unopened item, press **U**.
- To move to the next related message, press **J**.
- To move to the previous related message, press **K**.

## Message troubleshooting

### I cannot send messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.

- If the menu item for sending a message does not appear, verify that you have added an email address or PIN for your contact.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Generate an encryption key.
- Verify that data service is turned on.
- Resend the message.

## I am not receiving messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Verify that data service is turned on.
- If you use email message filters, verify that the options for email message filters are set correctly.
- Verify that email message forwarding is turned on and that you have selected all the email message folders, including your inbox folder, that you want to receive email messages from.
- Verify that your device is not blocking messages. For more information, contact your system administrator.

## Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

## A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

## **I cannot use a shortcut to view one type of message in a message list**

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.





# SMS text messages

## SMS text message basics

### About SMS text messages

With an SMS phone number, you can send and receive SMS text messages. An SMS phone number is a phone number that your wireless service provider sets up for SMS text messaging. If you have more than one phone number associated with your BlackBerry® device, your device sends SMS text messages using the first phone number that appears in the drop-down list at the top of the phone screen.

You can send SMS text messages to contacts who have SMS phone numbers. You can also forward SMS text messages as PIN or email messages.

### Find your SMS phone number

In the phone, your phone number appears at the top of the screen. If your wireless service provider has set up your BlackBerry® device for SMS text messaging, this number is also your SMS phone number.

If you have more than one phone number associated with your device, the first phone number that appears in the drop-down list at the top of the screen is your SMS phone number.

### Open a message

1. In a message list, click a message.
2. Click **Open**.

**Note:** If your BlackBerry® device is associated with more than one email address, you might be able to open messages from the message list for a specific email address.

### Send an SMS text message

1. In a message list, click the trackwheel.
2. Click **Compose SMS**.
3. Perform one of the following actions:
  - If the contact is not in your address book, click **[Use Once]**. Click **SMS**. Type an SMS phone number (include the country code and area code) or an email address. Click the trackwheel. Click **Continue**.
  - If the contact is in your address book, click a contact. Click **SMS <contact name>**.
4. Type a message.
5. Click the trackwheel.
6. Click **Send**.

## Add a contact to an SMS text message

You can send an SMS text message to up to ten recipients.

1. When composing an SMS text message, click the trackwheel.
2. Click **Add Recipient**.
3. Click a contact.

## Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
  - To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Save a draft of a message

1. When composing a message, click the trackwheel.
2. Click **Save Draft**.

## Save a message

1. In a message, click the trackwheel.
2. Click **Save**.

## Reply to a message

1. In a message, click the trackwheel.
2. Click **Reply** or **Reply to All**.

## Forward a message

1. In a message, click the trackwheel.
2. Perform one of the following actions:
  - Click **Forward**.
  - Click **Forward As**. Click a message type.

## Delete a message

1. In a message, click the trackwheel.
2. Click **Delete**.

## Delete multiple messages

1. In a message list, highlight a date field.
2. Click the trackwheel.
3. Click **Delete Prior**.

**Note:** Email messages that you delete using the Delete Prior menu item are not deleted from the email application on your computer during email reconciliation.

## Delete the history from an SMS text message

1. When replying to an SMS text message, click the trackwheel.
2. Click **Remove History**.

## Mark a message as opened or unopened

In a message list, perform one of the following actions:

- Highlight a message. Click the trackwheel. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Click the trackwheel. Click **Mark Prior Opened**.

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## Sent messages

### Resend a message

1. In a sent message, click the trackwheel.
2. Perform one of the following actions:
  - To change the message, click **Edit**. Change the message. Click the trackwheel. Click **Send**.

- To change the recipients, click **Edit**. Highlight a contact. Click the trackwheel. Click **Change Address**. Click a new contact. Click the trackwheel. Click **Send**.
- To resend the message without changing it, click **Resend**.

## Hide sent messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Hide Sent Messages** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

**Note:** If you set your device to hide sent messages, sent messages continue to appear in the history of SMS text messages.

## Cell broadcasting

### About cell broadcasting

Cell broadcasting is designed to enable wireless service providers to use SMS text messaging to send information to all BlackBerry® devices in a specific geographical area simultaneously. You can receive cell broadcast messages that contain a specific type of information by subscribing to a cell broadcast channel that provides that type of information. Different cell broadcast channels send different cell broadcast messages. For example, one cell broadcast channel might send regular weather forecasts while another might send traffic reports.

### Prerequisites: Cell broadcasting

- Verify that your wireless service provider supports this feature.
- Verify that your SIM card is set up with a cell broadcast channel or your wireless service provider has provided you with the ID for a cell broadcast channel.
- Verify that your SIM card supports the display language that you want to use for cell broadcast messages.

### Turn on cell broadcasting

1. In the device options, click **Advanced Options**.
2. Click **Cell Broadcast**.
3. Set the **Cell Broadcasting Service** field to **On**.
4. Perform one of the following actions:
  - If a cell broadcast channel appears on the screen, select the check box beside the channel.
  - If a cell broadcast channel does not appear on the screen, click the trackwheel. Click **Add Channel**. Type the channel ID and a nickname. Click **OK**.

5. Click a language.
6. Click **Enable**.
7. Click the trackwheel.
8. Click **Save**.

To turn off cell broadcasting, set the **Cell Broadcasting Service** field to **Off**. Before you turn off cell broadcasting, verify that your wireless service provider does not use cell broadcasting to manage services, such as preferred rates, based on your location.

## Stop receiving messages from a cell broadcast channel

Verify that your wireless service provider does not use the cell broadcast channel to manage services, such as preferred rates, based on your location.

1. In the device options, click **Advanced Options**.
2. Click **Cell Broadcast**.
3. Highlight a cell broadcast channel.
4. Click the trackwheel.
5. Perform one of the following actions:
  - To stop receiving messages from the cell broadcast channel, click **Disable**.
  - To delete the cell broadcast channel, click **Delete Channel**.

## Rename a cell broadcast channel

1. In the device options, click **Advanced Options**.
2. Click **Cell Broadcast**.
3. Highlight a cell broadcast channel.
4. Click the trackwheel.
5. Click **Set Nickname**.
6. Type a name for the cell broadcast channel.
7. Click **OK**.

## Message options

### View an address instead of a display name

1. In a message, click a contact.
2. Click **Show Address**.

To view the display name again, click a contact. Click **Show Name**.

## Turn off AutoText for SMS text messages

1. In the device options, click **SMS**.
2. Set the **Disable AutoText** field to **Yes**.
3. Click the trackwheel.
4. Click **Save**.

## View more of the history in SMS text messages

1. In the device options, click **SMS**.
2. Set the **Number of Previous Items** field.
3. Click the trackwheel.
4. Click **Save**.

## Store SMS text messages on your SIM card

If you set your SIM card to store SMS text messages, the SIM card does not delete SMS text messages after the BlackBerry® device imports them to a message list.

1. In the device options, click **SMS**.
2. Set the **Leave Messages On SIM Card** field to **Yes**.
3. Click the trackwheel.
4. Click **Save**.

To stop storing SMS text messages on your SIM card, set the **Leave Messages On SIM Card** field to **No**. If you set this field to No, SMS text messages on your SIM card are deleted after the device imports them to a message list.

## Request delivery notification for all SMS text messages

Depending on your wireless service provider, this option might not appear.

1. In the device options, click **SMS**.
2. Set the **Delivery Reports** field to **On**.
3. Click the trackwheel.
4. Click **Save**.

## Set how long your service center attempts to send SMS text messages

If you send an SMS text message and it cannot be delivered immediately, your service center tries to send the SMS text message for the amount of time set in the Validity Period field. Depending on your wireless service provider, this option might not appear.

1. In the device options, click **SMS**.
2. Set the **Validity Period** field.
3. Click the trackwheel.

4. Click **Save**.

## Set a wireless network type for sending SMS text messages

Depending on your wireless service provider, this option might not appear.

1. In the device options, click **SMS**.
2. Set the **Network to Send Over** field.
3. Click the trackwheel.
4. Click **Save**.

## Message list options

### View more of the subject line for messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform any of the following actions:
  - Set the **Display Message Header On** field to **2 lines**.
  - Set the **Display Time** and **Display Name** fields to **No**.
5. Click the trackwheel.
6. Click **Save**.

### Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

### Hide the new or unopened message indicator

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Display Message Count** field to **None**.

5. Click the trackwheel.
6. Click **Save**.

To view the number of unopened messages again, set the **Display Message Count** field to **Unread**. To view the new message indicator, set the **Display New Message Indicator** field to **Yes**.

## About multiple message lists

Depending on your email setup option, you might be able to associate your BlackBerry® device with more than one email account. For example, you might be able to associate your device with a work email account and one or more personal email accounts. If you associate your device with more than one email account, multiple message lists might appear on your device. In a message list for a specific email account, you can open and manage email messages for that email account, and you can send messages using the email address for the email account. See the *BlackBerry Internet Service Online Help* for more information about associating your device with more than one email account.

Depending on your theme, a separate message list might appear for SMS and MMS messages.

## Use one message list or multiple message lists

By default, your BlackBerry® device theme determines whether SMS text messages appear in the same message list as email messages.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:
  - To use one message list for all messages, set the **SMS and Email Inboxes** field to **Combined**.
  - To separate SMS text messages from email messages, set the **SMS and Email Inboxes** field to **Separate**.
5. Click the trackwheel.
6. Click **Save**.

## Set how long your device stores messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Keep Messages** field.
5. Click the trackwheel.
6. Click **Save**.

To restore messages, set the **Keep Messages** field to a longer period of time. Messages that you received on your BlackBerry® device within the set period of time appear in a message list.



## Block incoming messages

If your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server, you might not be able to block PIN messages from contacts in your organization. For more information, contact your system administrator.

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Select the check box beside one or more message types.
4. Click the trackwheel.
5. Click **Save**.

**Note:** Blocked messages might contribute to your wireless service plan data usage. You can prevent messages from being forwarded to your device without contributing to data usage by turning off email message forwarding or using email message filters.

## Reset a blocked message counter

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Highlight a message type.
4. Click the trackwheel.
5. Click **Reset Count** or **Reset All Counts**.

## Message shortcuts

### In a message

- To reply to a message, press **R**.
- To reply to all, press **L**.
- To forward a message, press **F**.
- To file a highlighted email message, press **I**.
- To view the email address of a contact, in a message, highlight the contact. Press **Q**. To view the display name, press **Q**.

### In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press **C**.
- To mark a message as opened or unopened, press the **Alt** key and **U**.
- To view received messages, press the **Alt** key and **I**.
- To view sent messages, press the **Alt** key and **O**.
- To view voice mail messages, press the **Alt** key and **V**.
- To view SMS text messages, press the **Alt** key and **S**.
- To view call logs, press the **Alt** key and **P**.
- To view all your messages, press the **Escape** key.

### Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **T**.
- To move to the bottom of a message list, press **B**.
- To move to the next date, press **N**.
- To move to the previous date, press **P**.
- To move to the next unopened item, press **U**.
- To move to the next related message, press **J**.
- To move to the previous related message, press **K**.

## Message troubleshooting

### I cannot send SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.
- Verify that fixed dialing is turned off.

### I am not receiving SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.
- Verify that your SIM card has enough available memory to store received SMS text messages.

### Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

### A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

### **I cannot turn on cell broadcasting**

Your SIM card might not support the display languages that you have selected for cell broadcast messages.

Clear the check box beside all languages that your SIM card does not support.

### **I cannot use a shortcut to view one type of message in a message list**

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.



# MMS messages

## MMS message basics

### About MMS messages

With an MMS phone number, you can send and receive MMS messages that contain media files such as .jpg, .gif, .wbmp, .midi, .vcf (vCard®), or .ics (iCalendar) files. An MMS phone number is a phone number that your wireless service provider sets up for MMS messaging. If you have more than one phone number associated with your BlackBerry® device, your device sends MMS messages using the first phone number that appears in the drop-down list at the top of the phone screen.

You can add pictures that are not copyright protected to an MMS message, but the message cannot exceed 300 KB.

### Prerequisites: MMS messaging

- Verify that your BlackBerry® device supports MMS messaging.
- Verify that your wireless service plan includes this service.

Contact your system administrator or wireless service provider for more information.

### Find your MMS phone number

In the phone, your phone number appears at the top of the screen. If your wireless service provider has set up your BlackBerry® device for MMS messaging, this number is also your MMS phone number.

If you have more than one phone number associated with your device, the first phone number that appears in the drop-down list at the top of the screen is your MMS phone number.

### Open an MMS message

1. In a message list, click an MMS message.
2. Click **Open**.

If MMS content does not appear when you open the message, click the trackwheel. Click **Retrieve**.

### Send an MMS message

1. In a message list, click the trackwheel.
2. Click **Compose MMS**.
3. Perform one of the following actions:
  - If the contact is not in your address book, click **[Use Once]**. Click **Email** or **Phone**. Type an email address or an MMS phone number. Click the trackwheel.

- If the contact is in your address book, click a contact. Click an email address or MMS phone number.
4. Type a message.
  5. Click the trackwheel.
  6. Click **Send**.

## Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
  - To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Save a draft of a message

1. When composing a message, click the trackwheel.
2. Click **Save Draft**.

## Create a slide show in an MMS message

1. When composing an MMS message, click the trackwheel.
2. Click **Attach Picture** or **Attach Audio**.
3. Click a picture or an audio file.
4. To add other pictures or audio files, repeat steps 1 through 3.
5. To customize the slide show, perform any of the following actions:
  - To add text to a slide, highlight the blank field below the attachment. Type text.
  - To set how long a slide appears, set the **Slide Duration** field.
  - To move an item on a slide, click the item. Click **Move Field**. Roll the trackwheel to the new location. Click the trackwheel.

## Record and send a voice note

You can record and send voice notes that are up to a minute long.

1. In the voice notes application, click **OK**.
2. Record a voice note.
3. To pause recording, click the trackwheel. To resume recording, press the **Escape** key.

4. When you finish recording, click the trackwheel.
5. Click **Send as MMS**.

## Set the importance level for a message

1. When composing a message, click the trackwheel.
2. Click **Options**.
3. Set the **Importance** field.
4. Click the trackwheel.
5. Click **Save**.

## Resend a message

1. In a sent message, click the trackwheel.
2. Perform one of the following actions:
  - To change the message, click **Edit**. Change the message. Click the trackwheel. Click **Send**.
  - To change the recipients, click **Edit**. Highlight a contact. Click the trackwheel. Click **Change Address**. Click a new contact. Click the trackwheel. Click **Send**.
  - To resend the message without changing it, click **Resend**.

## Save a message

1. In a message, click the trackwheel.
2. Click **Save**.

## Reply to a message

1. In a message, click the trackwheel.
2. Click **Reply** or **Reply to All**.

## Forward an MMS message

You cannot forward MMS messages that contain content that is copyright protected.

1. In an MMS message, click the trackwheel.
2. Click **Forward** or **Forward As**.

## Delete a message

1. In a message, click the trackwheel.
2. Click **Delete**.

## Delete multiple messages

1. In a message list, highlight a date field.
2. Click the trackwheel.
3. Click **Delete Prior**.

**Note:** Email messages that you delete using the Delete Prior menu item are not deleted from the email application on your computer during email reconciliation.

## Mark a message as opened or unopened

In a message list, perform one of the following actions:

- Highlight a message. Click the trackwheel. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Click the trackwheel. Click **Mark Prior Opened**.

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## View messages in a specific folder

1. In a message list, click the trackwheel.
2. Click **View Folder**.
3. Click a folder.
4. Click **Select Folder**.

## MMS message attachments

### Attach a media file to an MMS message

1. When composing an MMS message, click the trackwheel.
2. Click **Attach Picture** or **Attach Audio**.
3. Click a picture or audio file.



## Attach a contact or appointment to an MMS message

You can only send nonrecurring appointments in MMS messages. If you attach a meeting, the attendees are removed.

1. When composing an MMS message, click the trackwheel.
2. Perform one of the following actions:
  - To attach a contact, click **Attach Contact**. Click a contact.
  - To attach an appointment, click **Attach Appointment**. Highlight an appointment. Click the trackwheel. Click **Continue**.

## Save a picture from an MMS message

1. In an MMS message, click a picture.
2. Click **Save Picture**.

## Add an appointment to your calendar from an MMS message

1. In an MMS message, click an iCalendar attachment.
2. Click **View Appointment**.
3. Click the trackwheel.
4. Click **Add To Calendar**.

## Add a contact to your address book from an MMS message

1. In an MMS message, click a vCard® attachment.
2. Click **View Attachment**.
3. Click the trackwheel.
4. Click **Add Contact**.

## Message options

### Request delivery or read notification for an MMS message

1. When composing an MMS message, click the trackwheel.
2. Click **Options**.
3. Perform any of the following actions:
  - To receive notification when the message is delivered to the recipient, set the **Confirm Delivery** field to **Yes**.
  - To receive notification when the recipient opens the message, set the **Confirm Read** field to **Yes**.
4. Click the trackwheel.
5. Click **Save**.

## Request delivery or read notification for all MMS messages

1. In the device options, click **MMS**.
2. In the **Notifications** section, perform one of the following actions:
  - To send delivery or read notification when a sender requests it, set the **Allow Delivery Confirmation** and **Allow Read Confirmation** fields to **Yes**.
  - To request delivery or read notification when you send MMS messages, set the **Confirm Delivery** and **Confirm Read** fields to **Yes**.
3. Click the trackwheel.
4. Click **Save**.

## View an address instead of a display name

1. In a message, click a contact.
2. Click **Show Address**.

To view the display name again, click a contact. Click **Show Name**.

## View the size of an MMS message before sending it

1. In an MMS message, click the trackwheel.
2. Click **Options**.

The Estimated Size field displays the size of the MMS message.

## Stop receiving MMS messages when roaming

1. In the device options, click **MMS**.
2. Set the **Multimedia Reception** and **Automatic Retrieval** fields to **Home Only**.
3. Click the trackwheel.
4. Click **Save**.

## Message list options

### View more of the subject line for messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Perform any of the following actions:
  - Set the **Display Message Header On** field to **2 lines**.

- Set the **Display Time** and **Display Name** fields to **No**.
5. Click the trackwheel.
  6. Click **Save**.

## Hide the new or unopened message indicator

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Display Message Count** field to **None**.
5. Click the trackwheel.
6. Click **Save**.

To view the number of unopened messages again, set the **Display Message Count** field to **Unread**. To view the new message indicator, set the **Display New Message Indicator** field to **Yes**.

## Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## About multiple message lists

Depending on your email setup option, you might be able to associate your BlackBerry® device with more than one email account. For example, you might be able to associate your device with a work email account and one or more personal email accounts. If you associate your device with more than one email account, multiple message lists might appear on your device. In a message list for a specific email account, you can open and manage email messages for that email account, and you can send messages using the email address for the email account. See the *BlackBerry Internet Service Online Help* for more information about associating your device with more than one email account.

Depending on your theme, a separate message list might appear for SMS and MMS messages.

## Use one message list or multiple message lists

By default, your BlackBerry® device theme determines whether SMS text messages appear in the same message list as email messages.

1. In a message list, click the trackwheel.
2. Click **Options**.

3. Click **General Options**.
4. Perform one of the following actions:
  - To use one message list for all messages, set the **SMS and Email Inboxes** field to **Combined**.
  - To separate SMS text messages from email messages, set the **SMS and Email Inboxes** field to **Separate**.
5. Click the trackwheel.
6. Click **Save**.

## Set how long your device stores messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Keep Messages** field.
5. Click the trackwheel.
6. Click **Save**.

To restore messages, set the **Keep Messages** field to a longer period of time. Messages that you received on your BlackBerry® device within the set period of time appear in a message list.

## Hide sent messages

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Hide Sent Messages** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

**Note:** If you set your device to hide sent messages, sent messages continue to appear in the history of SMS text messages.

## Block MMS messages

1. In the device options, click **MMS**.
2. In the **Message Filtering** section, select the **Reject Anonymous Messages** check box or the **Reject Advertisements** check box.
3. Click the trackwheel.
4. Click **Save**.

## Block incoming messages

If your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server, you might not be able to block PIN messages from contacts in your organization. For more information, contact your system administrator.

1. In the device options, click **Security Options**.

2. Click **Firewall**.
3. Select the check box beside one or more message types.
4. Click the trackwheel.
5. Click **Save**.

**Note:** Blocked messages might contribute to your wireless service plan data usage. You can prevent messages from being forwarded to your device without contributing to data usage by turning off email message forwarding or using email message filters.

## Reset a blocked message counter

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Highlight a message type.
4. Click the trackwheel.
5. Click **Reset Count** or **Reset All Counts**.

## Message shortcuts

### In a message

- To reply to a message, press **R**.
- To reply to all, press **L**.
- To forward a message, press **F**.
- To file a highlighted email message, press **I**.
- To view the email address of a contact, in a message, highlight the contact. Press **Q**. To view the display name, press **Q**.

### In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press **C**.
- To mark a message as opened or unopened, press the **Alt** key and **U**.
- To view received messages, press the **Alt** key and **I**.
- To view sent messages, press the **Alt** key and **O**.
- To view voice mail messages, press the **Alt** key and **V**.
- To view SMS text messages, press the **Alt** key and **S**.
- To view call logs, press the **Alt** key and **P**.
- To view all your messages, press the **Escape** key.

### Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **T**.
- To move to the bottom of a message list, press **B**.

- To move to the next date, press **N**.
- To move to the previous date, press **P**.
- To move to the next unopened item, press **U**.
- To move to the next related message, press **J**.
- To move to the previous related message, press **K**.

## Message troubleshooting

### I cannot send messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- If the menu item for sending a message does not appear, verify that you have added an email address or PIN for your contact.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Generate an encryption key.
- Verify that data service is turned on.
- Resend the message.

### I am not receiving messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Verify that data service is turned on.
- If you use email message filters, verify that the options for email message filters are set correctly.
- Verify that email message forwarding is turned on and that you have selected all the email message folders, including your inbox folder, that you want to receive email messages from.

- Verify that your device is not blocking messages. For more information, contact your system administrator.

## I cannot attach a file to an MMS message

Try performing the following actions:

- Verify that the file is a .vcf (vCard®) file, an .ics (iCalendar) file, or a media file (for example, a .jpg, .gif, or .midi file).
- Verify that the file size does not exceed 300 KB.
- Verify that the file is not copyright protected.
- If MMS templates are available for your BlackBerry® device, use a blank template to compose your MMS message.

## Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

## A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

## I cannot use a shortcut to view one type of message in a message list

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.





# Typing

## Typing basics

### Type a symbol

1. Press the **Symbol** key.
2. Type the letter that appears below the symbol.

### Type an accent or special character

To type an accented or special character, hold the letter key and roll the trackwheel. For example, to type ü, hold **U** and roll the trackwheel up until ü appears.

### Create a link for a PIN

You can create a link for a PIN in messages, memos, tasks, or calendar entries. If you click the link, you can send a PIN message. When typing text, type **pin:** and the PIN.

### Create a phone number link for a conference call

1. Type a phone number for the conference call bridge.
2. Perform one of the following actions:
  - Type **X** and the access code.
  - Insert a pause or wait and type the access code.

**Note:** If you add a pause or wait when creating a phone number link for a conference call in a message, an appointment, or a meeting, type **Tel:** before the phone number for the conference call bridge. Do not type a space between **Tel:** and the phone number.

### Cut, copy, and paste text

1. With text highlighted, click the trackwheel.
2. Click **Cut** or **Copy**.
3. Place the cursor where you want to insert the cut or copied text.
4. Click the trackwheel.
5. Click **Paste**.

### Clear a field

1. When typing text, click the trackwheel.

2. Click **Clear Field**.

## Highlight a line of text

1. Place the cursor where you want to highlight the line of text.
2. Click the trackwheel.
3. Click **Select**.
4. Roll the trackwheel.

## Highlight text character by character

1. Place the cursor where you want to highlight the text.
2. Click the trackwheel.
3. Click **Select**.
4. Hold the **Alt** key and roll the trackwheel.

## Cancel a text selection

1. With text selected, click the trackwheel.
2. Click **Cancel Selection**.

## Set the cursor speed

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Rate** field.
3. Click the trackwheel.
4. Click **Save**.

## Set the default currency symbol

1. In the device options, click **Screen/Keyboard**.
2. Set the **Currency Key** field.
3. Click the trackwheel.
4. Click **Save**.

## Turn on key tones

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Tone** field to **On**.
3. Click the trackwheel.

4. Click **Save**.

## Use shortcut keys on the Home screen

By default, you can dial phone numbers from the Home screen. If your theme uses an application list, you can always use shortcut keys in the applications list.

1. In the phone, click the trackwheel.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Dial From Home Screen** field to **No**.
5. Click the trackwheel.
6. Click **Save**.

To dial phone numbers from the Home screen again, set the **Dial From Home Screen** field to **Yes**.

## Typing input methods

### About typing in Arabic or Russian

If your BlackBerry® Device Software supports multiple languages and your keyboard displays Arabic or Russian letters, you can type in Arabic or Russian using the SureType® input method or the multi-tap input method.

When you use the SureType input method, you press the letter key for each letter in a word once, even if two letters appear on the key. As you type, a list of possible letter combinations and words appears on the screen. SureType technology selects letter combinations or words from the list based on context. If you try to type a word or letter combination (for example, a web address or an abbreviation) that SureType technology does not recognize, you can use the list that appears on the screen to build the word letter by letter. SureType technology is designed to "learn" new words or letter combinations that you type and add them to your custom word list.

When you use the multi-tap input method, you press a letter key once to type the first letter on a key and twice to type the second letter, if a second letter appears on the key.

SureType technology is the default typing input method for most fields. Multi-tap is the default for phone number and password fields. You can set your typing input method for all fields to multi-tap.

### Type in Arabic or Russian using SureType technology

Verify that your keyboard displays Arabic or Russian letters.

1. Press the letter key for each letter in a word until you have typed the entire word.
2. If your BlackBerry® device does not recognize the word that you have typed, perform one of the following actions:
  - To highlight an item in the list that appears when you type, roll the trackwheel.
  - To select a highlighted item from the list that appears when you type and continue typing the same word, press the **Enter** key.
  - To select a highlighted item from the list that appears when you type and start a new word, press the **Space** key.

## Type in Arabic or Russian using multi-tap

Verify that your keyboard displays Arabic or Russian letters.

If you have set your typing input method to multi-tap or you are typing a phone number or password, perform one of the following actions:

- To type the first letter on a key, press the letter key once.
- To type the second letter on a key, press the letter key twice.

## Switch typing input methods

You can only switch typing input methods if the typing input language for your BlackBerry® device is Arabic or Russian.

1. In the device options, click **Language**.
2. Perform one of the following actions:
  - To use the multi-tap input method, set the **Input Language** field to **<Language> Multitap**.
  - To use the SureType® input method, set the **Input Language** field to **<Language>**.
3. Click the trackwheel.
4. Click **Save**.

## Set the typing input language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your system administrator or wireless service provider.

1. In the device options, click **Language**.
2. Set the **Input Language** field.
3. Click the trackwheel.
4. Click **Save**.

## About typing in Japanese

If your BlackBerry® Device Software supports Japanese, you can type in Japanese using the Romanji input method. To facilitate typing in Japanese, your BlackBerry device is designed to support word completion and next word prediction. As you type Hiragana, a list of possible Hiragana and Kanji words appears on the screen. You can select a word from the list, or you can convert the text to Kanji or Katakana. Your device is designed to 'learn' new character combinations as you type. After you type a word, a list of possible next words appears on the screen.

Your device is also designed to support many Japanese symbols. The most common symbols appear in the symbol list on your device. You can type symbols that do not appear in the symbol list using the character codes that are available in the user guide for your device.

## Type text in Japanese

1. Press the letter key for each letter in a word.
2. Perform one of the following actions:

- To accept the Hiragana text, press the **Enter** key.
- To convert the text to Kanji or Katakana, press the **Space** key.
- To convert the text to English, click the English text in the list that appears when you type.

To increase the length of a segment, press the **End** key. To decrease the length of a segment, press the **Send** key.

## Type a symbol in Japanese

1. Press the **Symbol** key.
2. Perform one of the following actions:
  - To type a symbol that appears in the symbol list, type the letter that appears under the symbol.
  - To type a symbol that does not appear in the symbol list, in the **character code** field, type the character code for the symbol.
  - To switch character encodings, click the **character encoding** field that appears beside the **character code** field.

To view a list of character codes for Japanese symbols, see the user guide on the *BlackBerry User Tools CD* that came with your device.

## Shortcuts for typing in Japanese

- To switch typing input formats, press the **Front Convenience** key.
- To convert text from Hiragana to Kanji or Katakana, press the **Space** key.
- To move a character in the list that appears when you type, highlight the character and press the **Send** key or the **End** key.
- To switch typing input languages quickly when typing, hold the **Alt** key and press the **Enter** key.

## Spelling checker

### Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
  - To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

### Check spelling automatically before sending email messages

1. In the device options, click **Spell Check**.
2. Select the **Spell Check Email Before Sending** option.

3. Click the trackwheel.
4. Click **Save**.

## Change options for checking spelling

1. In the device options, click **Spell Check**.
2. Select or clear the check box beside one or more options.
3. Click the trackwheel.
4. Click **Save**.

## Add a word to the custom dictionary

1. In the device options, click **Spell Check**.
2. Click **Custom Dictionary**.
3. Click the trackwheel.
4. Click **New**.
5. Type a word or letter combination.
6. Click the trackwheel.

## Change a word in the custom dictionary

1. In the device options, click **Spell Check**.
2. Click **Custom Dictionary**.
3. Highlight a word.
4. Click the trackwheel.
5. Click **Edit**.
6. Change the word.
7. Click the trackwheel.

## Delete a word from the custom dictionary

1. In the device options, click **Spell Check**.
2. Click **Custom Dictionary**.
3. Highlight a word.
4. Click the trackwheel.
5. Click **Delete**.

## Word list

### About the custom word list

If the typing input language for your BlackBerry® device is Arabic or Russian, and you type a word or letter combination that your device does not recognize, your device adds the word or letter combination to the custom word list. You can also add words or letter combinations manually to the custom word list.

Your device deletes words from the custom word list if you do not use them.

### Add a custom word list item

1. In the device options, click **Custom Wordlist**.
2. Click the trackwheel.
3. Click **New**.
4. Type a word or letter combination.
5. Click the trackwheel.
6. Click the trackwheel.
7. Click **Save**.

### Change a custom word list item

1. In the device options, click **Custom Wordlist**.
2. Click a custom word list item.
3. Click **Edit**.
4. Change the custom word list item.
5. Click the trackwheel.
6. Click **Save**.

### Delete a custom word list item

1. In the device options, click **Custom Wordlist**.
2. Highlight a custom word list item.
3. Click the trackwheel.
4. Click **Delete**.

### Delete all custom word list items

1. In the device options, click **Custom Wordlist**.
2. Highlight a custom word list item.

3. Click the trackwheel.
4. Click **Clear Custom Wordlist**.

## Stop adding items to the custom word list automatically

1. In the device options, click **Language**.
2. Click **Input Options**.
3. Set the **Auto Word Learning** and **Automatic Word Learning from Messages** fields to **Off**.
4. Click the trackwheel.
5. Click **Save**.

## Stop displaying contacts in the list that appears when typing

By default, your BlackBerry® device recognizes contacts when you type them.

1. In the device options, click **Language**.
2. Click **Input Options**.
3. Set the **Use Address Book as Data Source** field to **Off**.
4. Click the trackwheel.
5. Click **Save**.

## AutoText

### About AutoText

AutoText is designed to replace specific text that you type with preloaded AutoText entries. If you type text that can be replaced with an AutoText entry, the text changes after you press the Space key.

Your BlackBerry® device has built-in AutoText entries that correct common mistakes. For example, AutoText changes hte to the. You can create AutoText entries for your common typing mistakes or for abbreviations. For example, you might create an AutoText entry that replaces tlyl with talk to you later.

### Create an AutoText entry

1. In the device options, click **AutoText**.
2. Click the trackwheel.
3. Click **New**.
4. In the **Replace** field, type the text to replace.
5. In the **With** field, perform one of the following actions:
  - Type replacement text.
  - To insert a macro (for example, the current date or time), click the trackwheel. Click **Insert Macro**.



6. In the **Using** field, perform one of the following actions:
  - To capitalize the entry exactly as you typed it, click **Specified Case**.
  - To capitalize the entry according to the context, click **SmartCase**.
7. Set the language.
8. Click the trackwheel.
9. Click **Save**.

## Change an AutoText entry

1. In the device options, click **AutoText**.
2. Click an AutoText entry.
3. Click **Edit**.
4. Change the AutoText entry.
5. Click the trackwheel.
6. Click **Save**.

## Delete an AutoText entry

1. In the device options, click **AutoText**.
2. Highlight an AutoText entry.
3. Click the trackwheel.
4. Click **Delete**.

## Undo an AutoText change

Press the **Backspace/Delete** key twice.

## Turn off AutoText for SMS text messages

1. In the device options, click **SMS**.
2. Set the **Disable AutoText** field to **Yes**.
3. Click the trackwheel.
4. Click **Save**.

## Typing shortcuts

- To insert a period, press the **Space** key twice. The next letter is capitalized.
- To capitalize a letter, hold the letter key until the capitalized letter appears.
- To type the alternate character on a key, press the **Alt** key and the character key.

- To type an accented or special character, hold the letter key and roll the trackwheel. For example, to type ü, hold **U** and roll the trackwheel up until ü appears. Release the letter key when the accented or special character appears.
- To type a number in a number field, press a number key. You do not need to press the **Alt** key.
- To type a number in a text field, hold the **Alt** key and press the number key.
- To turn on NUM lock, press the **Alt** key and the **Left Shift** key. To turn off NUM lock, press the **Shift** key.
- To turn on CAP lock, press the **Alt** key and the **Right Shift** key. To turn off CAP lock, press the **Shift** key.
- To switch typing input languages, in the device options, on the Language screen, verify that the **Use Input Language Shortcut** field is set to **Yes**. Hold the **Alt** key and press the **Enter** key. Continue to hold the **Alt** key and highlight a language. Release the **Alt** key.

#### **Insert symbols**

- To insert an at sign (@) or a period (.) in an email address field, press the **Space** key.
- To type a symbol, press the **Symbol** key. Type the letter that appears below the symbol.
- To type the currency symbol assigned to the **Currency** key, press the **Currency** key.

#### **Work with text**

- To highlight a line of text, press the **Shift** key and roll the trackwheel.
- To highlight text character by character, hold the **Shift** key and roll the trackwheel.
- To cancel a text selection, press the **Escape** key.
- To cut highlighted text when typing, press the **Shift** key and the **Backspace/Delete** key.
- To copy highlighted text when typing, press the **Alt** key and click the trackwheel.
- To paste highlighted text when typing, press the **Shift** key and click the trackwheel.

## Typing troubleshooting

### **I cannot check spelling**

You can only check spelling in English, French, German, Italian, and Spanish.

You can only check the spelling of text that you type.

# Search

## About search

In a message list, you can search for messages using specific criteria that you can save for future use. You can also search for messages by contact or subject.

You can use the search application to search for messages, contacts, calendar entries, and tasks on your BlackBerry® device. You can also manage contacts, calendar entries, and tasks from the search results list.

## Search for messages

You can save your search criteria so that you can repeat your search at another time.

1. In a message list, click the trackwheel.
2. Click **Search**.
3. Set the search criteria.
4. Click the trackwheel.
5. Perform one of the following actions:
  - To save the search criteria, click **Save**. Add a title. Click the trackwheel. Click **Save**.
  - To search the message list without saving your search criteria, click **Search**.
  - To search the message list using the criteria from your last search, click **Last**. Click the trackwheel. Click **Search**.

To stop a search, press the **Escape** key.

## Search criteria

### Name:

Specify one or more contacts or email addresses that the search should find in messages. You can also specify part of the name to widen the search.

### In:

Set in which address field the search should find the name.

### Subject:

Type text that the search should find in the subject of messages.

### Message:

Type text that the search should find in the body of messages.

### Service:

If your BlackBerry® device is associated with more than one email account, set the type of email account from which the search should find messages.

**Folder:**

Set the folders in which the search should find messages.

**Show:**

Set the types of messages that the search should find.

**Type:**

Set which messages the search should find.

## View a list of saved searches

1. In a message list, click the trackwheel.
2. Click **Search**.
3. Click the trackwheel.
4. Click **Recall**.

## Change a saved search

1. In the list of saved searches, highlight a search.
2. Click the trackwheel.
3. Click **Edit Search**.
4. Edit the search criteria.
5. Click the trackwheel.
6. Click **Save**.

## Delete a saved search

1. In the list of saved searches, highlight a search.
2. Click the trackwheel.
3. Click **Delete Search**.

## Search for messages by contact or subject

1. In a message list, highlight a message.
2. Click the trackwheel.
3. Click one of the following menu items:
  - **Search Sender**

- **Search Recipient**
- **Search Subject**

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## Search for organizer data and messages that contain specific information

1. In the search application, perform any of the following actions:
  - In the **Text** field, type text or a phone number to search for.
  - In the **Name** field, type a contact name to search for.
2. Select one or more applications.
3. Click the trackwheel.
4. Click **Search**.

**Note:** If you type more than one word in the **Text** or **Name** fields, only items that contain all the words appear.

The BlackBerry® device does not search file attachments if you search messages.

To stop a search, press the **Escape** key.

## Search shortcuts

- To search for a contact in a list of contacts, type the contact name or initials separated by a space.
- To search for text in a message, press **S**.
- To search for text in an attachment or on a web page, press **F**.
- To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view. Press **F**.



# Attachments

## Attachment basics

### About attachments

You can view several file attachment types on your BlackBerry® device, including .zip, .htm, .html, .doc, .dot, .ppt, .pdf, .wpd, .txt, .vcf, and .xls files. You can also view .bmp, .gif, .jpg, .png, .tif, and .wmf files, and play .wav files.

If you save an email message that contains an attachment that you have opened, the email message and the attachment are stored in the device memory until you delete the email message.

### Open an attachment

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or system administrator.

1. In a message, click the trackwheel.
2. Click **Open Attachment**.
3. If the message contains more than one attachment, on the Attachments screen, click an attachment. Click **Retrieve**.

### Follow a link in an attachment

Some attachments might contain links to embedded content, such as tables, pictures, footnotes, text boxes, or comments.

1. In an attachment, click a link.
2. Click **Retrieve**.

To return to the attachment, press the **Escape** key.

### View properties for an attachment

You can view the size, author, publication date, and other attachment properties for an attachment.

1. In an attachment, click the trackwheel.
2. Click **Retrieve Info** or **View Info**.

### Set font options for an attachment

1. In an attachment, click the trackwheel.
2. Click **Options**.
3. Set the font fields.
4. Click the trackwheel.
5. Click **Save**.

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## Document attachments

### Open a password-protected .pdf file attachment

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or system administrator.

1. When the "Password protected document" message appears, press the **Escape** key.
2. Click **Password**.
3. Type the password.
4. Press the **Enter** key.
5. Click the trackwheel.
6. Click **Retrieve**.
7. Click **Yes**.

### View tracked changes in a document

1. In a document, click the trackwheel.
2. Click **Show Changes**.

To hide tracked changes, click the trackwheel. Click **Hide Changes**.

### View the table of contents in a document

Depending on the document type, you might not be able to view the table of contents.

1. In a document, click the trackwheel.
2. Click **Table of Contents**.

To move to a specific heading, click a heading. Click **View**.



## Spreadsheet attachments

### Move to a specific cell

1. In a spreadsheet, click the trackwheel.
2. Click **Go to Cell**.
3. Type the cell co-ordinates.
4. Click the trackwheel.

### View the content of a cell

1. In a spreadsheet cell, click the trackwheel.
2. Click **View Cell**.

### View a list of worksheets

1. In a spreadsheet, click the trackwheel.
2. Click **Table of Contents**.

To move to a specific worksheet, click a worksheet. Click **View**.

### Switch worksheets

1. In a spreadsheet, click the trackwheel.
2. Click **Next Sheet** or **Prev Sheet**.

### Change the size of a column

In a spreadsheet, perform one of the following actions:

- To change the size of a column, click the column label. Click a size.
- To view all the text in a column, click the column label. Click **Fit**.
- To change the size of all the columns in the spreadsheet, click the unmarked column label in the upper-left corner of the spreadsheet. Click a size.
- To change the column size for all spreadsheets, click the trackwheel. Click **Options**. Set the **Column Width** field. Click the trackwheel. Click **Save**.

### Set display options for a spreadsheet

1. In a spreadsheet, click the trackwheel.
2. Click **Options**.
3. Perform any of the following actions:

- To view the gridlines in the spreadsheet, set the **Show Gridlines** field to **Yes**.
  - To label spreadsheet rows with numbers and columns with letters, set the **Display Labels** field to **Yes**.
4. Click the trackwheel.
  5. Click **Save**.

## Media attachments

### View a list of pages in a multi-page .tif file attachment

View a list of pages in a multi-page .tif file attachment, such as a scanned fax document saved as a .tif file.

1. In a multi-page .tif file attachment, click the trackwheel.
2. Click **Table of Contents**.

To move to a specific page, click a page. Click **View**.

### Switch pages in a multi-page .tif file attachment

1. In a multi-page .tif file attachment, click the trackwheel.
2. Click **Next Page** or **Prev Page**.

### Enhance a section of a picture

1. In an attachment, click the trackwheel.
2. Click **Zoom**.
3. Roll the trackwheel up to zoom in to the attachment.
4. Click the trackwheel.
5. Click the trackwheel again.
6. Click **Enhance**.

## Presentation attachments

### Switch presentation views

1. In a presentation, click the trackwheel.
2. Perform one of the following actions:
  - To view text only, click **View Text**.
  - To view text and slides, click **View Both**.
  - To view the presentation in its original format, click **View Slides**.

## Switch slides

1. In a presentation, click the trackwheel.
2. Click **Next Slide** or **Prev Slide**.

## Rotate a slide

1. When viewing a presentation in slide view, click a slide.
2. Click **Rotate**.

## Zoom in to or out from a slide

1. When viewing a presentation in slide view, click a slide.
2. Click **Zoom**.
3. Roll the trackwheel.

To zoom back to the original slide size, click the trackwheel twice. Click **Zoom 1:1**.

## Save a slide

1. When viewing a presentation in slide view, click a slide.
2. Click **Save Image**.
3. Type a name for the file.
4. Click **Save**.

## vCard contact attachments

### About vCard contact attachments

vCard® contact attachments (.vcf files) contain information for a specific contact. When you add a vCard contact attachment to an email message, recipients of your email message can view your contact information or add it their BlackBerry® device address book. When you open an email message that contains a vCard contact attachment, a book icon appears at the end of the message with the name of the attached contact.

### Open a vCard contact attachment

1. In a message, click a vCard® contact attachment.
2. Click **View Attachment**.

### Add a contact to your address book from a vCard contact attachment

1. In a vCard® contact attachment, click the trackwheel.

2. Click **Add to Address Book** or **Update Address**.

## Attachment shortcuts

- To search for text in an attachment, press **F**.
- To move to the last cursor position after closing and reopening an attachment, press **G**.

### In a spreadsheet

- To move to a specific cell, press **G**.
- To view the content of a cell, press the **Space** key.
- To switch worksheets, press **V**. Highlight a worksheet. Press the **Enter** key.
- To view hidden columns or rows, press **H**. To hide the columns or rows, press **H**.

### In a presentation

- To switch presentation views, press **M**.
- To move to the next slide, press **N**.
- To move to the previous slide, press **P**.
- To move to the last cursor position after closing and reopening a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view. Press **G**.

## Attachment troubleshooting

### A skipped content bar appears in a document

More attachment content is available for you to download to your BlackBerry® device.

To download the content, click the skipped content bar. Click **More**.

### A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

### A question mark appears on a slide

A question mark appears on a slide if your BlackBerry® device has not downloaded the slide.

To view the slide, highlight the slide. Click the trackwheel. Click **Retrieve**.

# Synchronization

## About synchronization

The wireless data synchronization feature is designed to synchronize organizer data (contacts, calendar entries, tasks, and memos) between your BlackBerry® device and the email application on your computer over the wireless network.

The wireless email reconciliation feature is designed to reconcile email messages between your device and the email application on your computer over the wireless network. When you file or delete email messages on your device, these email messages should be filed or deleted in your email application. Likewise, any changes that you make to email messages in the email application on your computer should be reflected on your device.

If wireless data synchronization or wireless email reconciliation is not available on your device or you have turned them off, you can use the synchronization tool of the BlackBerry Desktop Manager. See the *BlackBerry Desktop Software Online Help* for more information.

## Prerequisites: Wireless email reconciliation

- If your BlackBerry® device is associated with the BlackBerry® Internet Service, verify that your wireless service provider supports this feature.
- If your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server, verify that the BlackBerry Enterprise Server supports this feature. For more information, contact your system administrator.

## Reconcile email messages over the wireless network

Set the Wireless Reconcile option for each email address that is associated with your BlackBerry® device.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Set the **Wireless Reconcile** field to **On**.
5. Click the trackwheel.
6. Click **Save**.

To stop reconciling email messages over the wireless network, set the **Wireless Reconcile** field to **Off**.

## Delete email messages over the wireless network

Set the Delete On option for each email address that is associated with your BlackBerry® device.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Set the **Delete On** field.

5. Click the trackwheel.
6. Click **Save**.

It takes a short period of time for messages to be deleted over the wireless network. To delete messages on your device only, set the **Delete On** field to **Handheld**.

## Prerequisites: Wireless data synchronization

- Verify that you have synchronized your organizer data using the synchronization tool of the BlackBerry® Desktop Manager. For more information, see the *BlackBerry® Desktop Software Online Help*.
- Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator.

## Synchronize organizer data over the wireless network

1. In the address book, calendar, task list, or memo list, click the trackwheel.
2. Click **Options**.
3. Set the **Wireless Synchronization** field to **Yes**.
4. Click the trackwheel.
5. Click **Save**.

To stop synchronizing organizer data over the wireless network, set the **Wireless Synchronization** field to **No**.

## About synchronization conflicts

A synchronization conflict occurs when you change the same email message or organizer data item on your BlackBerry® device and in the email application on your computer.

If you reconcile your email messages using wireless email reconciliation, on your device, you can set whether the email messages on your device or the email messages on your computer take precedence when an email reconciliation conflict occurs.

If you synchronize your organizer data using wireless data synchronization, the organizer data on your computer takes precedence over the organizer data on your device when a data synchronization conflict occurs.

## Manage email reconciliation conflicts

Set the On Conflicts option for each email address that is associated with your BlackBerry® device.

1. In a message list, click the trackwheel.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Set the **On Conflicts** field.
5. Click the trackwheel.
6. Click **Save**.

## Manage data synchronization conflicts

You can set how organizer data synchronization conflicts are resolved by turning off wireless data synchronization, setting conflict resolution options and synchronizing organizer data using the synchronization tool of the BlackBerry Desktop Manager. See the *BlackBerry Desktop Software Online Help* for more information about managing organizer data synchronization conflicts.

## About backing up and restoring device data

If you have installed the BlackBerry® Desktop Software on your computer, you can back up and restore most of your BlackBerry device data, including messages, organizer data, fonts, saved searches, and browser bookmarks using the backup and restore tool of the BlackBerry Desktop Manager. For more information, see the *BlackBerry Desktop Software Online Help*.

If your device is associated with an email account that uses a BlackBerry Enterprise Server, you might be able to restore synchronized organizer data to your device over the wireless network. To restore synchronized organizer data over the wireless network, you must have an enterprise activation password. For more information, contact your system administrator.

## Prerequisites: Wireless data restoration

- Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator.
- Verify that your system administrator has provided you with an enterprise activation password.
- Verify that your device is connected to the wireless network.

## Delete all device data

Verify that you have a backup copy of your BlackBerry® device data.

**CAUTION:** If you have turned on content protection, the process for deleting all device data can take up to an hour to complete. You cannot stop the process after you start it. If you reset your device, the process continues after the device restarts.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Click the trackwheel.
4. Click **Wipe Handheld**.
5. To delete all third-party applications, select the **Include third-party applications** check box.
6. Click **Continue**.
7. Type **blackberry**.

## Empty the deleted items folder on your computer from your device

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server that supports this feature and that wireless email reconciliation is turned on. For more information, contact your system administrator.

1. In a message list, click the trackwheel.

2. Click **Options**.
3. Click **Email Reconciliation**.
4. Click the trackwheel.
5. Click **Purge Deleted Items**.
6. Click **Yes**.

## Synchronization troubleshooting

### Email messages are not reconciling over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless email reconciliation is turned on.
- Reconcile email messages manually. In a message list, click the trackwheel. Click **Reconcile Now**.

### I am not receiving email messages from personal folders on my computer

If your BlackBerry® device is associated with a Microsoft® Outlook® email account, you must use the synchronization tool of the BlackBerry Desktop Manager to reconcile email messages in personal folders. See the *BlackBerry Desktop Software Online Help* for more information.

### Email messages are not being deleted over the wireless network

Try performing the following actions:

- If you delete multiple email messages on your BlackBerry® device, highlight the email messages and press the **Backspace/Delete** key. If you delete multiple email messages using the Delete Prior menu item, the email messages are not deleted during wireless email reconciliation.
- In the email reconciliation options, verify that the **Delete On** field is set to **Mailbox & Handheld**.

### Organizer data is not synchronizing over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless data synchronization is turned on in the address book, calendar, task list, and memo list.

### Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.



### **Some characters in calendar entries do not appear correctly after synchronization**

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. See the documentation for the operating system on your computer for more information.



# Browser

## Browser basics

### About browser configurations

The browser on your BlackBerry® device supports multiple browser configurations for optimizing your browsing experience.

The BlackBerry Browser configuration optimizes the appearance of HTML web pages in the browser. If your BlackBerry device is associated with an email account that uses a BlackBerry Enterprise Server that supports the BlackBerry Browser, you can use the BlackBerry Browser configuration to browse the Internet and your organization's intranet. If your BlackBerry device is associated with an email account that uses BlackBerry Enterprise Server Version 4.1 or later, you can also use the BlackBerry Browser configuration to view .doc, .pdf, .txt, .wpd, and .xls files in the browser. If you use the BlackBerry Browser configuration, you might not be able to change some browser options.

The Internet Browser configuration also optimizes the appearance of HTML web pages in the browser. You can use the Internet Browser configuration to access web pages that enable you to subscribe to BlackBerry web push services or access ring tones. Depending on your wireless service provider, the Internet Browser configuration might not be available on your device or might use a different name. For more information about the Internet Browser configuration, contact your wireless service provider.

The WAP Browser configuration optimizes the appearance of WML web pages in the browser. You can use the WAP Browser configuration to access web pages from your wireless service provider that enable you to configure your account information and subscribe to services such as voice mail.

### Visit a web page

1. In the browser, click the trackwheel.
2. Click **Go To**.
3. Perform one of the following actions:
  - Type a web address. Click the trackwheel.
  - Highlight a web address. Click the trackwheel.
  - Highlight a web address. Click the trackwheel. Click **Edit**. Change the web address. Click the trackwheel.
4. Click **OK**.

### Follow a link

1. Click a link.
2. Click **Get Link**.

### Move back or forward a web page

1. On a web page, click the trackwheel.

2. Click **Back** or **Forward**.

## View a thumbnail version of a web page

1. On a web page, click the trackwheel.
2. Click **Page Overview**.

## Move to a section of a long web page quickly

1. In a thumbnail version of the web page, position your cursor on the location of the web page you want to view.
2. Press any key to close the thumbnail.

The section of the web page that you want to view appears on the screen.

## Move through a web page line by line

1. On a web page, click the trackwheel.
2. Click **Select Mode**.

To select only links and fields as you move through a web page, click the trackwheel. Click **View Mode**.

## Search for text in a message, attachment, or web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, attachment, or web page, click the trackwheel.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, click the trackwheel. Click **Find Next**.

## Refresh a web page

1. On a web page, click the trackwheel.
2. Click **Refresh**.

## View a list of web pages you visited recently

1. On a web page, click the trackwheel.
2. Click **History**.

## Stop loading a web page

1. When a web page is loading, click the trackwheel.
2. Click **Stop**.

## Return to the home page

1. On a web page, click the trackwheel.
2. Click **Home**.

## Hide the browser

1. In the browser, click the trackwheel.
2. Click **Hide**.

## Close the browser

1. In the browser, click the trackwheel.
2. Click **Close**.

## Links, pictures, and web page addresses

### View the address for a link or picture

1. On a web page, highlight a link or picture.
2. Click the trackwheel.
3. Click **Link Address** or **Image Address**.

### View the address for a web page

1. On a web page, click the trackwheel.
2. Click **Page Address**.

### Copy an address for a web page, link, or picture

1. On a web page, perform one of the following actions:
    - Highlight a link. Click the trackwheel. Click **Link Address**.
    - Highlight a picture. Click the trackwheel. Click **Image Address**.
    - Click the trackwheel. Click **Page Address**.
  2. Click **Copy Address**.
- To paste the address, click the trackwheel. Click **Paste**.

### Forward a link or picture from a web page

1. On a web page, highlight a link or picture.

2. Click the trackwheel.
3. Click **Link Address** or **Image Address**.
4. Click **Send Address**.
5. Click a message type.

To return to the browser after you send the message, press the **Escape** key.

## Forward a web page address

1. On a web page, click the trackwheel.
2. Click **Send Address**.
3. Click a message type.

To return to the browser after you send the message, press the **Escape** key.

## View a full picture on a web page

1. On a web page, highlight a picture.
2. Click the trackwheel.
3. Click **Full Image**.

## Zoom in to or out from a picture

1. In a picture, click the trackwheel.
2. Click **Zoom**.
3. Roll the trackwheel.

To zoom back to the original picture size, click the trackwheel. Click **Zoom 1:1**.

## Rotate a picture

1. In a picture, click the trackwheel.
2. Click **Rotate**.

The picture turns 90 degrees in a clockwise direction.

## Set how pictures load in the browser

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **Browser Configuration**.
4. Perform one of the following actions:
  - To load pictures on WML web pages only, set the **Show Images** field to **On WML Pages Only**.
  - To stop pictures from loading on all web pages, set the **Show Images** field to **No**.

- To turn off placeholders for pictures, set the **Show Image Placeholders** field to **No**.
5. Click the trackwheel.
  6. Click **Save Options**.

## Change the picture quality in the browser

Lower-quality pictures take less time to load in the browser.

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **General Properties**.
4. Change the **Image Quality** field.
5. Click the trackwheel.
6. Click **Save**.

## Load pictures on a web page

1. On a web page, click the trackwheel.
2. Perform one of the following actions:
  - To load some pictures, click **More Images**.
  - To load all pictures, click **All Images**.

## Web page requests

### About saving web pages and web page requests

While a web page is loading, you can save the web page request in a message list. When you save a web page request, you can use other pages while you are waiting for the web page to load.

You can also save web pages to a message list. When you save a web page, you can view the text on the page at any time. A saved web page displays content that was current at the time that the web page was saved.

### Save a web page request to a message list

1. When a web page is loading, click the trackwheel.
2. Click **Save Request**.

### Save a web page to a message list

1. On a web page, click the trackwheel.
2. Click **Save Page**.

3. Type a title.
4. Click **OK**.

## Bookmarks

### About bookmarks

You can add bookmarks for web pages that you visit frequently. When you add a bookmark, you can set whether you want to make the web page available offline and whether you want the browser to check the web page for updates periodically. Bookmarks for web pages that have been updated since the last time you visited them appear in italic.

### Add a bookmark

1. On a web page, click the trackwheel.
2. Click **Add Bookmark**.
3. In the **Auto Synchronize** field, set how often the browser should check for updates to the web page.
4. In the **Start time** field, set the time of day when the browser should start checking for updates.
5. Click the trackwheel.
6. Click **Add**.

### Make a web page available offline

When adding a bookmark, select the **Available Offline** check box.

If you visit the web page offline, the browser displays the information that was current the last time that you viewed the web page online.

### Change a bookmark

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Click the trackwheel.
5. Click **Edit Bookmark**.
6. Change the bookmark.
7. Click the trackwheel.
8. Click **Accept**.

### Forward a bookmark

1. In the bookmark list, highlight a bookmark.
2. Click the trackwheel.



3. Click **Send Bookmark**.
4. Click a message type.

To return to the browser after you send the message, press the **Escape** key.

## Delete a bookmark

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Click the trackwheel.
5. Click **Delete Bookmark**.

## Add a bookmark folder

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.
3. Click the trackwheel.
4. Click **Add Subfolder**.

## File a bookmark

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Click the trackwheel.
5. Click **Move Bookmark**.
6. Roll the trackwheel to the new location.
7. Click the trackwheel.

## Expand a folder

1. Click a folder with a plus sign (+) beside it.
2. Click **Expand**.

## Collapse a folder

1. Click a folder with a minus sign (-) beside it.
2. Click **Collapse**.

## Rename a bookmark folder

You can only rename folders that you created.

1. Highlight a folder.
2. Click the trackwheel.
3. Click **Rename Folder**.

## Delete a bookmark folder

You can only delete folders that you created.

1. Highlight a folder.
2. Click the trackwheel.
3. Click **Delete Folder**.

# Web feeds

## About web feeds

Web feeds provide you with information about updates to web site content. You can open a web feed to view a list of titles and descriptions for updated web site content. For example, if you open a sports web feed for a news web site, you can scan a list of sports stories that the web site has published since the last time that you checked the web feed. If a title interests you, you can view the web feed content, or if an audio version of the content is available, you can listen to the web feed content.

You can open web feeds on web pages, or you can subscribe to web feeds and open them from your bookmark list. In your bookmark list, web feeds that have been updated since the last time you checked them appear in italic. In a web feed, unopened web feed titles appear in bold.

If one or more web feeds are available on a web page, the Add Web Feed option appears in the menu.

## Subscribe to a web feed

1. On a web page, click the trackwheel.
2. Click **Add Web Feed**.
3. Select the check box beside a web feed.
4. In the **Auto Synchronize** field, set how often the browser should check for updates to the web feed.
5. In the **Start time** field, set the time of day when the browser should start checking for updates.
6. Click the trackwheel.
7. Click **Add**.

## View web feed content

1. In a web feed, highlight a title.
2. Click the trackwheel.
3. Perform one of the following actions:
  - To view a summary of the story, click **Show Description**.
  - To view the full story, click **Read Story**.

To hide a description, highlight a title. Click the trackwheel. Click **Hide Description**.

## Listen to web feed content

If your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service, you can listen to web feed content that does not exceed 5 MB. If your BlackBerry device is associated with an email account that uses the BlackBerry® Enterprise Server, you might not be able to listen to web feed content that exceeds 128 KB. For more information, contact your system administrator.

1. In a web feed, highlight a title.
2. Click the trackwheel.
3. Click **Get Audio**.

## Mark a web feed title as opened or unopened

In a web feed, perform one of the following actions:

- Highlight a title. Click the trackwheel. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Click the trackwheel. Click **Mark Prior Opened**.

## Change a web feed

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.
3. Highlight a web feed.
4. Click the trackwheel.
5. Click **Edit Bookmark**.
6. Change the web feed.
7. Click the trackwheel.
8. Click **Save**.

## File a web feed

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.

3. Highlight a web feed.
4. Click the trackwheel.
5. Click **Move Bookmark**.
6. Roll the trackwheel to the new location.
7. Click the trackwheel.

## Delete a web feed

1. On a web page, click the trackwheel.
2. Click **Bookmarks**.
3. Highlight a web feed.
4. Click the trackwheel.
5. Click **Delete Bookmark**.

## Browser options

### Clear a browser cache

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **Cache Operations**.
4. Beside a cache type, click **Clear**.

### Clear browser history

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **Cache Operations**.
4. Click **Clear History**.

### Turn on JavaScript support

Verify that your BlackBerry® device is associated with an email account that uses BlackBerry Enterprise Server version 4.0 or later.

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **Browser Configuration**.
4. Select the **Support JavaScript** check box.
5. Click the trackwheel.
6. Click **Save Options**.

## Set the number of times animated graphics repeat

Verify that your BlackBerry® device is associated with an email account that uses BlackBerry Enterprise Server version 4.0 or later.

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **General Properties**.
4. Set the **Repeat Animations** field.
5. Click the trackwheel.
6. Click **Save Options**.

## Set the web content type that the browser accepts

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **Browser Configuration**.
4. Set the **Content Mode** field.
5. Click the trackwheel.
6. Click **Save Options**.

## Set the home page

Depending on your wireless service provider, you might not be able to set the home page.

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **Browser Configuration**.
4. In the **Home Page Address** field, type a web address.
5. Click the trackwheel.
6. Click **Save Options**.

## Set the default browser configuration

1. In the device options, click **Advanced Options**.
2. Click **Browser**.
3. Set the **Default browser configuration** field.
4. Click the trackwheel.
5. Click **Save**.

## Set the character encoding for all web pages

By default, your BlackBerry® device uses the optimal character encoding for a web page.

1. On a web page, click the trackwheel.
2. Click **Set Encoding**.
3. Clear the **Auto mode** check box.
4. Set the **Default charset** field.
5. Click **OK**.

## Receive a prompt before running a script

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **General Properties**.
4. Select the **Prompt Before Running WML Scripts** check box.
5. Click the trackwheel.
6. Click **Save Options**.

## Receive a prompt before closing the browser

By default, your BlackBerry® device closes the browser without prompting you when you hold the **Escape** key.

1. In the browser, click the trackwheel.
2. Click **Options**.
3. Click **General Properties**.
4. Select the **Prompt Before Closing Browser On Escape** check box.
5. Click the trackwheel.
6. Click **Save Options**.

## Browser security

### About TLS

The BlackBerry® Browser configuration is designed to use TLS or SSL to encrypt data that your device sends or receives over the Internet through the BlackBerry Enterprise Server. Communication between your device and the BlackBerry Enterprise Server is encrypted using Triple DES. Communication between the BlackBerry Enterprise Server and content servers is encrypted using SSL or TLS. To increase security, you can set up TLS for HTTP connections between your device and the BlackBerry Enterprise Server and use Triple DES encryption for all other communication between your device and the BlackBerry Enterprise Server.

### About WTLS

The WAP Browser configuration is designed to use WTLS to encrypt data that your BlackBerry® device sends and receives over the Internet through a WAP gateway. Communication between your device and the WAP gateway is encrypted using WTLS. Communication between the WAP gateway and content servers is encrypted using TLS or SSL.

## Manage browser security

1. In the device options, click **Security Options**.
2. Click **TLS** or **WTLS**.
3. Set the security options.
4. Click the trackwheel.
5. Click **Save**.

## TLS options

### **TLS Default:**

Set the type of TLS or SSL connection that your browser uses for HTTP connections. To use a direct TLS or SSL connection, set this field to **Handheld**. To use Triple DES and TLS or SSL, set this field to **Proxy**.

### **Allow HTTP Redirections:**

Set whether a prompt appears before a secure web page redirects your browser to another web page.

### **Protocol:**

Set the protocol that your BlackBerry® device uses for TLS connections between the browser and content servers.

### **Encryption Strength:**

Set whether your browser only accepts and sends data that is encrypted using 128-bit encryption. To only accept and send data that is encrypted using 128-bit encryption, set this field to **Strong Only**. To accept and send data that is encrypted using 128-bit encryption or 56-bit encryption, set this field to **Allow Weak**.

### **Allow FIPS Algorithms Only:**

Set whether your browser accepts and sends data that is encrypted using only FIPS-approved algorithms.

### **Prompt for Server Trust:**

Set whether a prompt appears when your browser tries to connect to an untrusted content server that your device does not have a authentication certificate for.

### **Prompt for Domain Name:**

Set whether a prompt appears when your browser tries to connect to a content server and the domain name on the authentication certificate for the content server does not match the web address to which the browser is trying to connect.

### **Prompt for Certificate:**

Set whether a prompt appears when your browser tries to connect to a content server. You might want a prompt to appear if your device has more than one certificate that you use to authenticate with content servers.

### **Prompt if Client Cert Not Found:**

Set whether a prompt appears when your browser tries to connect to a content server, but your device does not have a certificate that can be used to authenticate with the content server.

### Default Client Certificate:

Set the certificate that your browser uses to authenticate with content servers.

## WTLS options

### Encryption Strength:

Set whether your browser only accepts and sends data that is encrypted using 128-bit encryption. To only accept and send data that is encrypted using 128-bit encryption, set this field to **Strong Only**. To accept and send data that is encrypted using 128-bit encryption or 56-bit encryption, set this field to **Allow Weak**.

### Prompt for Server Trust:

Set whether a prompt appears when your browser tries to connect to an untrusted content server that your device does not have a authentication certificate for.

## Add a trusted content server

Add content servers to your trusted content server list to accelerate the authentication process when you are authenticating with a content server.

1. In the device options, click **Security Options**.
2. Click **TLS**.
3. Click the trackwheel.
4. Click **Add Host**.
5. Perform one of the following actions:
  - If the **TLS Default** field is set to **Proxy**, in the **Host Name** field, type the web address for the content server.
  - If the **TLS Default** field is set to **Handheld**, in the **Host Name** field, type the web address for the content server. Set the **Certificate** field to the client certificate that you want to use to authenticate with the content server.
6. Click **OK**.
7. Click the trackwheel.
8. Click **Save**.

## Browser push

### About browser push

Browser push is designed to push information from a web application to your BlackBerry® device as the information becomes available. For example, you can use browser push to receive updates for weather reports, stock quotes, or breaking news. When your device receives an update, a new browser push message might appear in a message list or, an icon on the Home screen or in the application list might change to indicate that new information is available. The web application might also push updated information to your browser cache without notifying you. If information is pushed to your browser cache, the information is available on your device even when your device is not connected to the wireless network.



Your device supports different types of browser push messages. Service loading messages and service indication messages include updated information. Other browser push messages include messages that appear in your browser cache.

## Turn on browser push

1. In the device options, click **Advanced Options**.
2. Click **Browser Push**.
3. Perform one of the following actions:
  - To accept all browser push messages, select the **Enable Push** check box.
  - To accept browser push messages through a BlackBerry® Enterprise Server or BlackBerry Internet Service only, select the **Enable Push** check box and clear the **Enable WAP Push** check box.
  - To accept browser push messages through WAP gateways only, select the **Enable Push** check box and clear the **Enable MDS Push** check box.
4. Click the trackwheel.
5. Click **Save**.

## Browser push options

### Process MDS:

Set whether your BlackBerry® device accepts browser push messages from the BlackBerry Enterprise Server or BlackBerry Internet Service.

### MDS Hosts:

Set whether your device accepts push messages from all BlackBerry Enterprise Servers or BlackBerry Internet Services, or no BlackBerry Enterprise Servers or BlackBerry Internet Services.

### Process SMSC:

Set whether your device accepts SMS-based browser push messages.

### SMSC Hosts:

Set which SMSC hosts your device accepts browser push messages from. To accept browser push messages from a specific SMSC host, type the phone number for the SMSC host.

### Process IP:

Set whether your device accepts browser push messages that web applications send through a WAP gateway.

### IP Hosts:

Set which WAP gateways your device accepts browser push messages from. To accept browser push messages from a specific IP host, type the IP address for the WAP gateway.

## Browser shortcuts

- To insert a period (.) in the Go To dialog box, press the **Space** key.
- To insert a slash mark (/) in the Go To dialog box, press the **Shift** key and the **Space** key.
- To stop loading a web page, press the **Escape** key.
- To close the browser, hold the **Escape** key.

### On a web page

- To move to a specific web page, press **G**.
- To return to the home page, press **H**.
- To open the bookmark list, press **K**.
- To add a bookmark, press **A**.
- To view a list of web pages that you have visited recently, press **I**.
- To refresh a web page, press **R**.
- To view the web page address for a link, highlight a link. Press **L**.
- To view the web page address for a web page, press **P**.
- To save a web page to a message list, press **S**.
- To follow a highlighted link, press the **Enter** key.
- To hide the banner, press **U**. To view the banner, press **U**.
- To view a thumbnail version of a web page, press **X**. To return to the normal view, press any key.
- To open the browser options, in the browser, press **O**.
- To hide the browser, press **D**.

### Navigate a web page

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a web page, press **T**.
- To move to the bottom of a web page, press **B**.

## Browser troubleshooting

### No browser is available on my device

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your wireless service plan includes this service.

## **I cannot set up automatic synchronization for bookmarks**

When you add a bookmark, you can only set the Auto Synchronize and Start Time fields if content protection is turned off.



# Applications

## Add an application

1. On a web page, highlight a link for an application.
2. Click the trackwheel.
3. Click **Get Link**.
4. Click **Download**.
5. Click **OK**.

## View properties for an application

1. In the device options, click **Advanced Options**.
2. Click **Applications**.
3. Click an application.
4. Click **View Properties**.

## Delete a third-party application

1. In the device options, click **Advanced Options**.
2. Click **Applications**.
3. Highlight a third-party application.
4. Click the trackwheel.
5. Click **Delete**.

## Receive a device password prompt before you add an application

Verify that you have set a BlackBerry® device password.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Change the **Prompt on application install** field to **Yes**.
4. Click the trackwheel.
5. Click **Save**.

## View the size of an application database

1. In the device options, click **Status**.

2. Click the trackwheel.
3. Click **Database Sizes**.

## Application troubleshootinging

### I cannot add applications

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your device has enough memory to add the application.

# Media

## Media file management

### About transferring media files

You can connect your BlackBerry® device to your computer to transfer files between your device and your computer, or you can use Bluetooth® technology to send media files to or receive media files from a Bluetooth enabled device.

If you connect your device to your computer, you can transfer media files between your device and your computer using the media manager tool of the BlackBerry® Desktop Manager. For more information about using the media manager tool, see the *Media Manager Online Help*.

### Transfer a file between your device and your computer using the media manager tool

1. Connect your BlackBerry® device to your computer.
2. On your computer, open the BlackBerry® Desktop Manager.
3. Double-click **Media Manager**.
4. Drag a file or folder from one location to another.

For more information about using the media manager tool, see the *Media Manager Online Help*.

### Send a media file using Bluetooth technology

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. In the media application, click a media type.
2. Click a category.
3. Highlight a media file.
4. Click the trackwheel.
5. Click **Send Using Bluetooth**.
6. Click a Bluetooth enabled device.
7. Click **Send**.

### Receive a media file using Bluetooth technology

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. In the media application, click a media type.
2. Click the trackwheel.
3. Click **Receive Using Bluetooth**.
4. Click **Yes**.

5. Click **Save**.

## Forward a media file

You can only forward media files that you added.

1. In the media application, click a media type.
2. Click a category.
3. Highlight a media file.
4. Click **Send As Email**.

## Change the amount of memory available for media files

1. In the media application, click the trackwheel.
2. Click **Options**.
3. Change the **Device Memory Limit** field.
4. Click the trackwheel.
5. Click **Save**.

## View properties for a media file

1. In the media application, click a media type.
2. Click a category.
3. Highlight a media file.
4. Click the trackwheel.
5. Click **Properties**.

## Ring tones

### Play a ring tone

1. In the media application, click a media type.
2. Click a category.
3. Click a ring tone.

### Search for a ring tone

1. In the media application, click a media type.
2. Click a category.
3. Type part or all of a name for a ring tone.



## Delete a ring tone

You can only delete ring tones that you added.

1. In the media application, click a media type.
2. Click a category.
3. Highlight a ring tone.
4. Click the trackwheel.
5. Click **Delete**.

**Note:** If you delete a ring tone that you use in a notification profile, the notification profile uses the default ring tone.

## Rename a ring tone

You can only rename ring tones that you added.

1. In the media application, press the **Menu** key.
2. Click **Explore**.
3. Navigate to a folder that contains ring tones.
4. Highlight a ring tone.
5. Click **Rename**.
6. Type a name for the file.
7. Click **Save**.

## Move a ring tone

You can only move ring tones that you added.

1. In the media application, press the **Menu** key.
2. Click **Explore**.
3. Click a folder that contains ring tones.
4. Highlight a ring tone.
5. Click **Move**.
6. Click a folder.
7. Click **Move Here**.

## Download a ring tone

Verify that your wireless service provider supports this feature.

1. In the media application, click **Ring Tones**.
2. Click **All Ring Tones**.
3. Click the trackwheel.
4. Click **Download Tunes**.

## Adjust the volume

- To increase the volume, roll the trackwheel up.
- To decrease the volume, roll the trackwheel down.

## Use a headset

You can purchase an optional headset to use with your BlackBerry® device.

- To answer a call, press the headset button.
- To turn on mute during a call, press the headset button. To turn off mute, press the headset button again.
- To end a call, hold the headset button.

For more information about using the headset, see the documentation that came with your headset.

## Pictures

### View a picture

1. In the media application, click **Pictures**.
2. Click a category.
3. Click a picture.
4. Click **Open**.

### Add a picture folder

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Click the trackwheel.
4. Click **New Folder**.
5. Type a name for the folder.
6. Click **Save**.

### Save a picture

Save picture files, such as .jpeg, .png, .gif, or .bmp files, to the BlackBerry® device memory.

1. Open a picture attachment or highlight a picture on a web page.
2. Click the trackwheel.
3. Click **Save Image**.
4. Click **Save**.

## Sort pictures

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Click the trackwheel.
4. Click **Options**.
5. Change the **Sort By** field.
6. Click the trackwheel.
7. Click **Save**.

## Rename a picture or picture folder

You can only rename pictures or picture folders that you added.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture or picture folder.
4. Click the trackwheel.
5. Click **Rename**.
6. Type a name for the picture or picture folder.
7. Click **Save**.

## Delete a picture or picture folder

You can only delete pictures or picture folders that you added.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture or picture folder.
4. Click the trackwheel.
5. Click **Delete**.

## Move a picture

You can only move pictures that you added.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.
4. Click the trackwheel.
5. Click **Move**.
6. Highlight a picture folder.

7. Click the trackwheel.
8. Click **Move Here**.

## Download a Home screen background

Verify that your wireless service provider supports this feature.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Click the trackwheel.
4. Click **Download Images**.

## Use a picture as the Home screen background

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.
4. Click the trackwheel.
5. Click **Set As Home Screen Image**.

To clear the picture from the Home screen, click the trackwheel. Click **Reset Home Screen Image**.

## View pictures as a slide show

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.
4. Click the trackwheel.
5. Click **View Slide Show**.

To close the slide show, press the **Escape** key.

## Change the number of seconds between slides in a slide show

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Click the trackwheel.
4. Click **Options**.
5. Change the **Slide Show Interval** field.
6. Click the trackwheel.
7. Click **Save**.

## View pictures in a list

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Click the trackwheel.
4. Click **View List**.

## Zoom in to or out from a picture

1. In a picture, click the trackwheel.
2. Click **Zoom**.
3. Roll the trackwheel.

To zoom back to the original picture size, click the trackwheel. Click **Zoom 1:1**.

## Pan a picture

Verify that you have zoomed in to the picture.

Perform one of the following actions:

- To pan up, roll the trackwheel up.
- To pan down, roll the trackwheel down.
- To pan left, hold the **Alt** key and roll the trackwheel up.
- To pan right, hold the **Alt** key and roll the trackwheel down.

## Rotate a picture

1. In a picture, click the trackwheel.
2. Click **Rotate**.

The picture turns 90 degrees in a clockwise direction.

## Media shortcuts

- To rotate a picture, press **R**.
- To zoom in to a picture, press **I**. To zoom to the original picture size, press **W**.
- To zoom out from a picture, press **O**. To zoom to the original picture size, press **W**.



# Maps

## Locations

### View a location on a map

1. On a map, click the trackwheel.
2. Click **Find Location**.
3. Perform one of the following actions:
  - To view your current location, click **Where I Am**.
  - To view a new location, click **Enter Address**.
  - To view a saved location, click **From Favorites**.
  - To view a location for a contact, click **From Address Book**.

### Add a bookmark for a location

1. On a map, click the trackwheel.
2. Click **Add To Favorites**.

### Clear a map

1. On a map, click the trackwheel.
2. Click **Clear Map**.

### Clear location history

1. On a map, click the trackwheel.
2. Click **Find Location**.
3. Highlight a location.
4. Click the trackwheel.
5. Perform one of the following actions:
  - To delete the highlighted location, click **Delete**.
  - To delete all locations, click **Clear Recent Locations**.

## Directions

### Get directions

1. On a map, click the trackwheel.
2. Click **Get Directions**.
3. Perform one of the following actions to specify a starting location:
  - To specify your current location, click **Where I Am**.
  - To specify a new location, click **Enter An Address**.
  - To specify a saved location, click **From Favorites**.
  - To specify a location for a contact, click **From Address Book**.
4. Repeat step 3 to specify an ending location.

### View directions as a route on a map

When viewing text directions, click **View On Map**.

To view text directions again, click the trackwheel. Click **View Directions**.

### Forward a route or a map

1. On a map, click the trackwheel.
2. Click **Send Directions** or **Send Location**.
3. Click a message type.

### Zoom in to a direction on a route

1. On a map, highlight a direction on a route.
2. Click the trackwheel.
3. Click **Zoom To Point**.

## Map basics

### Pan a map

Perform one of the following actions:

- To pan up, roll the trackwheel up.
- To pan down, roll the trackwheel down.
- To pan left, hold the **Alt** key and roll the trackwheel up.



- To pan right, hold the **Alt** key and roll the trackwheel down.

## Zoom in to or out from a map

1. On a map, click the trackwheel.
2. Click **Zoom**.
3. Perform one of the following actions:
  - To zoom in, roll the trackwheel up.
  - To zoom out, roll the trackwheel down.
4. Click the trackwheel.

## View status information at the top of a map

You can view the battery power level, wireless coverage level indicators, the time, and satellite and Bluetooth® connection information at the top of maps.

1. On a map, click the trackwheel.
2. Click **Options**.
3. Change the **Hide Title Bar** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

To hide the status information again, change the **Hide Title Bar** field to **Yes**.

## Clear the map cache

1. On a map, click the trackwheel.
2. Click **Options**.
3. Click the trackwheel.
4. Click **Clear Cache**.

## Tracking

### Prerequisites: Tracking your movement on a map

- If your BlackBerry® device does not have an internal GPS receiver or your wireless service provider does not support location-based services, verify that you have paired your BlackBerry device with a Bluetooth® enabled GPS receiver. For more information, contact your wireless service provider.
- Verify that you have set a GPS receiver to use when you track your movement.

## Set the GPS receiver that you use to track your movement

1. On a map, click the trackwheel.
2. Click **Options**.
3. Change the **GPS Source** field.
4. Click the trackwheel.
5. Click **Save**.

## Track your movement

Verify that you have set a GPS receiver to use when you track your movement.

1. On a map, click the trackwheel.
2. Click **Start GPS Navigation**.

To stop tracking your movement, click the trackwheel. Click **Stop GPS Navigation**.

## View north at the top of a map

When you are tracking your movement, the direction in which you are moving appears at the top of the map by default.

1. On a map, click the trackwheel.
2. Click **North Up**.

To view the direction in which you are moving at the top of the map again, click the trackwheel. Click **Track Up**.

## Hide the tracking information at the bottom of a map

1. When tracking your movement on a map, click the trackwheel.
2. Click **Hide Dashboard**.

To view the tracking information again, click the trackwheel. Click **Show Dashboard**.

## Keep backlighting on when you track your movement

By default, backlighting turns off automatically after a timeout to conserve battery power. You can change maps options so that backlighting remains on when you track your movement unless the battery power level drops below a specified percentage.

1. On a map, click the trackwheel.
2. Click **Options**.
3. Change the **Backlight Timeout When** field.
4. Click the trackwheel.
5. Click **Save**.

## Map shortcuts

- To pan a map, press the number key that corresponds to the direction in which you want to pan.

- To zoom in to a map, press **I**.
- To zoom out from a map, press **O**.
- To view status information at the top of a map, press **U**. To hide status information at the top of a map, press **U**.
- To view tracking information at the bottom of a map, press the **Space** key. To hide tracking information at the bottom of a map, press the **Space** key.
- To move to the next direction on a route, press **N**.
- To move to the previous direction on a route, press **P**.

## Maps troubleshooting

### Diagonal lines appear on a map

Diagonal lines appear on a map when your BlackBerry® device loads a new map or when your device is not connected to the wireless network.

If diagonal lines appear for a long period of time, verify that your device is connected to the wireless network.



# Contacts

## Contact basics

### Add a contact

1. In the address book, click the trackwheel.
2. Click **New Address**.
3. Type the contact information.
4. Click the trackwheel.
5. Click **Save**.

### Add a contact from a message, call log, or web page

1. In a message or call log or on a web page, highlight a contact.
2. Click the trackwheel.
3. Click **Add to Address Book**.
4. Type the contact information.
5. Click the trackwheel.
6. Click **Save**.

### Name a custom address book field

If you change the name of a custom address book field, it changes for all contacts.

1. When adding or editing a contact, click the **User1**, **User2**, **User3**, or **User4** field.
2. Click **Change Field Name**.
3. Type a name for the customer address book field.
4. Press the **Enter** key.

You can synchronize custom address book fields on your BlackBerry® device with the email application on your computer. See the *BlackBerry Desktop Software Online Help* for more information about synchronizing custom address book fields.

### View a contact

1. In the address book, click a contact.
2. Click **View**.

### Change a contact

1. In the address book, highlight a contact.

2. Click the trackwheel.
3. Click **Edit**.
4. Change the contact information.
5. Click the trackwheel.
6. Click **Save**.

## Delete a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Delete**.

## About pauses and waits

Use a pause or a wait to separate additional numbers, for example a password or extension, from a main phone number. After dialing the main phone number, your BlackBerry® device either pauses before dialing the additional numbers (pause) or prompts you to type them (wait).

## Add a pause or a wait to a phone number

1. After typing the main part of a phone number in a phone number field, click the trackwheel.
2. Click **Add Pause** or **Add Wait**.
3. Type the additional numbers.
4. Click the trackwheel.
5. Click **Save**.

## About custom ring tones

You can assign a custom ring tone to a contact without changing other notifications.

Custom ring tone options appear with your contacts and your notification profiles. When you assign a custom ring tone to a contact, a new profile exception appears with your notification profiles as "Calls From <contact>". Notification profile exceptions are shared between your contacts and your notification profiles and changes that you make in one application are made in the other application.

Your BlackBerry® device bases the volume for custom ring tones on the volume that you set in the active notification profile.

## Assign a ring tone to a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Edit**.
4. Click the trackwheel.

5. Click **Add Custom Phone Tune**.
6. Set a ring tone.
7. Click the trackwheel.
8. Click **Save**.

## Mailing lists

### About mailing lists

You can use mailing lists when you send email, PIN, SMS text, or MMS messages.

Mailing lists that you create on your BlackBerry® device do not appear in the email application on your computer.

### Create a mailing list

1. In the address book, click the trackwheel.
2. Click **New Group**.
3. Type a name for the mailing list.
4. Click the trackwheel.
5. Click **Add Member**.
6. Click a contact.
7. Click **Continue**.
8. To add another contact, repeat steps 4 through 7.
9. Click the trackwheel.
10. Click **Save Group**.

### Change a mailing list

1. In the address book, highlight a mailing list.
2. Click the trackwheel.
3. Click **Edit Group**.
4. Click a contact.
5. Click one of the following menu items:
  - **Add Member**
  - **Change Member**
  - **Delete Member**
6. Click the trackwheel.
7. Click **Save Group**.

**Note:** When you delete a contact from a mailing list, the contact remains in your address book.

## View a mailing list

1. In the address book, click a mailing list.
2. Click **View Group**.

To view the details for a contact in the mailing list, click a contact. Click **View Member**.

## Delete a mailing list

1. In the address book, highlight a mailing list.
2. Click the trackwheel.
3. Click **Delete Group**.

## Caller ID

### Add a caller ID picture for a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Add Picture**.
4. Highlight a picture.
5. Click the trackwheel.
6. Click **Select**.
7. Center the picture in the box.
8. Click the trackwheel.
9. Click **Crop and Save**.

### Change the caller ID picture for a contact

1. When changing a contact, highlight the caller ID picture.
2. Click the trackwheel.
3. Click **Add Picture**.
4. Highlight a picture.
5. Click the trackwheel.
6. Click **Select**.
7. Center the picture in the box.
8. Click the trackwheel.
9. Click **Save**.



## Delete the caller ID picture for a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Edit**.
4. Click the caller ID picture.
5. Click **Delete Picture**.
6. Click the trackwheel.
7. Click **Save**.

## Categories

### About categories

You can create categories to group your contacts, tasks, and memos. You can also narrow the contacts, tasks, and memos that appear based on categories.

Category names are not case sensitive. More than one category can apply to a contact, task, or memo. If you use IBM® Lotus Notes®, you can apply more than one category to a task on your BlackBerry® device, but only one category synchronizes with the task in Lotus Notes.

Categories are shared between the address book, the task list, and the memo list and changes that you make in one application are made in all applications.

### Create a category for contacts, tasks, or memos

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Click the trackwheel.
4. Click **New**.
5. Type a name for the category.
6. Press the **Enter** key twice.

### Categorize a contact, task, or memo

1. When creating or changing a contact, task, or memo, click the trackwheel.
2. Click **Categories**.
3. Select the check box beside a category.
4. Click the trackwheel.
5. Click **Save**.

## Sort contacts, tasks, or memos by category

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Select the check box next to a category.

## Delete a contact, task, or memo from a category

1. When changing a contact, task, or memo, click the trackwheel.
2. Click **Categories**.
3. Highlight a category.
4. Click the trackwheel.
5. Clear the check box beside the category.
6. Click the trackwheel.
7. Click **Save**.

## Delete a category

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Highlight a category.
4. Click the trackwheel.
5. Click **Delete**.

**Note:** When you delete a category, contacts, tasks, or memos in the category are not deleted.

## Address lookup

### Search for contacts in your organization's address book

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your system administrator.

1. In the address book, click the trackwheel.
2. Click **Lookup**.
3. Type part or all of a contact name.
4. Click the trackwheel.

### Manage address lookup results

1. In the address lookup results, highlight a contact.

2. Click the trackwheel.
3. Perform one of the following actions:
  - To add a contact to your address book, click **Add**.
  - To add all the contacts, click **Add All**.
  - To view information for a contact, click **View**.
  - To delete a contact from the address lookup results, click **Delete**.
  - To delete the address lookup results, click **Delete Lookup**.
  - To start a new address lookup, click **Lookup**.

## SIM card phone book

### About the SIM card phone book

Use the SIM card phone book to access contacts that you have added to your SIM card. The SIM card phone book is different from the address book on your BlackBerry® device. If you switch SIM cards, the contacts in the SIM card phone book change.

You can add ADN entries to your SIM card phone book. You can also search for ADN or SDN entries. ADN entries appear in plain text and SDN entries appear in bold.

### Load the SIM card phone book

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Wait for the SIM card phone book to load.
4. Press the **Escape** key.

### Add a contact to your SIM card

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Click the trackwheel.
4. Click **New**.
5. Type the contact information.
6. Click the trackwheel.
7. Click **Save**.

### Copy contacts from your SIM card to your address book

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Click the trackwheel.
4. Click **Copy All To Address Book**.

**Note:** If you try to copy a SIM card contact with a phone number that matches the phone number of a contact that is already listed in your address book, your BlackBerry® device does not copy the SIM card contact.

## Copy contacts from your address book to your SIM card

Verify that you have loaded the SIM card phone book.

1. In the address book, click a contact.
2. Click **View**.
3. Highlight a phone number.
4. Click the trackwheel.
5. Click **Copy to SIM Phone Book**.
6. Click the trackwheel.
7. Click **Save**.

## Change a SIM card contact

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Highlight a contact.
4. Click the trackwheel.
5. Click **Edit**.
6. Change the contact information.
7. Click the trackwheel.
8. Click **Save**.

## Delete a SIM card contact

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Highlight a contact.
4. Click the trackwheel.
5. Click **Delete**.

## Contact list options

### Sort contacts or tasks

1. In the address book or the task list, click the trackwheel.
2. Click **Options**.
3. Change the **Sort By** field.
4. Click the trackwheel.
5. Click **Save**.

### Set display options for contacts

You can set how your contacts appear in all applications, including the phone, message list, address book, and calendar.

1. In the device options, click **Language**.
2. Set the **Name Display** field to **Last name, First name**.
3. Click the trackwheel.
4. Click **Save**.

To sort your contacts by first name, set the **Name Display** field to **First name Last name**.

### Prevent duplicate names in your address book

1. In the address book, click the trackwheel.
2. Click **Options**.
3. Set the **Allow Duplicate Names** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

### Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## View the number of contacts, calendar entries, tasks, or memos stored on your device

1. In the address book, calendar, task list, or memo list, click the trackwheel.
2. Click **Options**.

The Number of Entries field displays the number of contacts, calendar entries, tasks, or memos that are stored on your device.

## Contact troubleshooting

### Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

# Calendar

## Calendar basics

### About the calendar

In the BlackBerry® device calendar, you can view your appointments and meetings in one of four views. Day, Week, and Month views show all your appointments for the selected time period. Agenda view shows all your scheduled appointments in a list. Agenda view also shows how much free time you have between appointments.

### Switch calendar views

1. In the calendar, click the trackwheel.
2. Click a view.

### Move around the calendar

1. In the calendar, click the trackwheel.
2. Perform one of the following actions:
  - To move to a specific date, click **Go To Date**.
  - To move to the current date, click **Today**.
  - To move forward or back by a time period, click **Prev** or **Next**.

### Schedule an appointment

1. In the calendar, click the trackwheel.
2. Click **New**.
3. Type the appointment information.
4. If the appointment recurs, set the **Recurrence** field.
5. Click the trackwheel.
6. Click **Save**.

### Schedule an appointment quickly in Day view

In the calendar options, verify that the **Enable Quick Entry** field is set to **Yes**.

1. In Day view, beside the start time, type the subject of the appointment.
2. Type a location in parentheses.
3. To change the end time, roll the trackwheel.

4. Click the trackwheel.

## Schedule a meeting

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or system administrator.

1. In the calendar, click the trackwheel.
2. Click **New**.
3. Type the meeting information.
4. If the meeting recurs, change the **Recurrence** field.
5. Click the trackwheel.
6. Click **Invite Attendee**.
7. Click a contact.
8. Click **Invite**.
9. To add another contact to your meeting, repeat steps 5 through 8.
10. Click the trackwheel.
11. Click **Save**.

**Note:** If your device is associated with more than one email address, in the Send Meeting Request Using field, you can change the email address that you want to use to send the meeting invitation.

## Recurrence fields

### Every:

Set the frequency of the daily, weekly, or monthly recurring appointment, meeting, or task.

### Relative Date:

Set whether the monthly or yearly recurring appointment, meeting, or task recurs on a relative date (for example, on the last Friday of each month).

### End:

Set when the recurring appointment, meeting, or task ends.

### Days:

Set the day or days on which a weekly appointment, meeting, or task should recur.

## Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.



- To ignore the suggested spelling, press the **Escape** key.
- To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
- To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
- To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Open an appointment or meeting

1. In the calendar, click an appointment or meeting.
2. Click **Open**.

## Delete an appointment or meeting

1. In the calendar, highlight an appointment or meeting.
2. Click the trackwheel.
3. Click **Delete**.

## View appointments in Week or Month view

1. In Week view or Month view, click the trackwheel.
2. Click **View Appts**.

The calendar displays the appointments scheduled for the current day.

To return to Week view or Month view, press the **Escape** key.

## Switch days in Day view

To move from one day to another using the navigation bar in the upper-right corner of the screen, click a day.

# Meetings

## Schedule a meeting

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or system administrator.

1. In the calendar, click the trackwheel.
2. Click **New**.
3. Type the meeting information.
4. If the meeting recurs, change the **Recurrence** field.
5. Click the trackwheel.
6. Click **Invite Attendee**.
7. Click a contact.

8. Click **Invite**.
9. To add another contact to your meeting, repeat steps 5 through 8.
10. Click the trackwheel.
11. Click **Save**.

**Note:** If your device is associated with more than one email address, in the Send Meeting Request Using field, you can change the email address that you want to use to send the meeting invitation.

## Respond to a meeting invitation

1. In a meeting invitation, click the trackwheel.
2. Click one of the following menu items:
  - **Accept** or **Accept with Comments**
  - **Tentative** or **Tentative with Comments**
  - **Decline** or **Decline with Comments**

**Note:** If you delete a meeting invitation from a message list before you accept or decline it, the meeting is deleted from the email application on your computer.

## Change the list of participants for a meeting

1. In a meeting, in the **Accepted** or **Declined** field, click a contact.
2. Click one of the following menu items:
  - **Invite Attendee**
  - **Change Attendee**
  - **Remove Attendee**

## Send an email message to all meeting participants

Verify that you are the meeting organizer.

1. In a meeting, meeting invitation, or meeting response, click the trackwheel.
2. Click **Email All Attendees**.

## Contact a meeting participant

Verify that you are the meeting organizer.

1. In a meeting, meeting invitation, or meeting response, highlight a contact.
2. Click the trackwheel.
3. Click a message type or **Call <contact>**.

## View your calendar when responding to a meeting

1. In a meeting invitation, click the trackwheel.

2. Click **View Calendar**.

To return to the meeting invitation, press the **Escape** key.

## Calendar options

### Set the default calendar view

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Initial View** field.
4. Click the trackwheel.
5. Click **Save**.

### Set the default reminder time for calendar entries

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Default Reminder** field.
4. Click the trackwheel.
5. Click **Save**.

### Set the start and end time for days

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Start of Day** and **End of Day** fields.
4. Click the trackwheel.
5. Click **Save**.

### Set a snooze time for reminders

1. In the calendar or task list, click the trackwheel.
2. Click **Options**.
3. Set the **Snooze** field.
4. Click the trackwheel.
5. Click **Save**.

## Change the email address that you use to send messages or meeting invitations

Verify that your BlackBerry® device is associated with more than one email address.

1. In the device options, click **Advanced Options**.
2. Click **Default Services**.
3. Change the **Messaging (CMIME)** field.
4. Click the trackwheel.
5. Click **Save**.

## View tasks in the calendar

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Show Tasks** field to **Yes**.
4. Click the trackwheel.
5. Click **Save**.

## Set the first day of the week

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **First Day of the Week** field.
4. Click the trackwheel.
5. Click **Save**.

## Hide free time in Agenda view

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Show Free Time in Agenda View** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## Set how long your device stores calendar entries

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Keep Appointments** field.
4. Click the trackwheel.
5. Click **Save**.

Your BlackBerry® device deletes calendar entries that are older than the number of days you set.

To restore calendar entries, set the **Keep Appointments** field to a longer period of time. Calendar entries that you received on your BlackBerry device within the set period of time appear in the calendar.

## Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## View the number of contacts, calendar entries, tasks, or memos stored on your device

1. In the address book, calendar, task list, or memo list, click the trackwheel.
2. Click **Options**.

The Number of Entries field displays the number of contacts, calendar entries, tasks, or memos that are stored on your device.

## Calendar shortcuts

For shortcuts to work in Day view, in the calendar options, set the **Enable Quick Entry** field to **No**.

- To schedule an appointment, press **C**.
- To change to Agenda view, press **A**.
- To change to Day view, press **D**.
- To change to Week view, press **W**.
- To change to Month view, press **M**.
- To move to the next day, week, or month, press the **Space** key.
- To move to the previous day, week, or month, press the **Shift** key and the **Space** key.
- To move the cursor horizontally in Week view, hold the **Alt** key and roll the trackwheel.
- To move the cursor vertically in Month view, hold the **Alt** key and roll the trackwheel.
- To move to the current date, press **T**.
- To move to a specific date, press **G**.

## Calendar troubleshooting

### I cannot schedule appointments that span multiple days

If you use IBM® Lotus Notes®, you cannot schedule appointments that span multiple days.

## **I cannot set some fields when scheduling appointments**

If you use IBM® Lotus Notes®, you can only change the Subject, Location, Reminder, and Notes fields and the Mark as Private check box when you change a recurring appointment or meeting.

## **Some characters in calendar entries do not appear correctly after synchronization**

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. See the documentation for the operating system on your computer for more information.

# Tasks

## Task basics

### Create a task

1. In the task list, click the trackwheel.
2. Click **New**.
3. Type the task information.
4. Set a due date for the task.
5. If the task recurs, set the **Recurrence** field.
6. Click the trackwheel.
7. Click **Save**.

### Recurrence fields

**Every:**

Set the frequency of the daily, weekly, or monthly recurring appointment, meeting, or task.

**Relative Date:**

Set whether the monthly or yearly recurring appointment, meeting, or task recurs on a relative date (for example, on the last Friday of each month).

**End:**

Set when the recurring appointment, meeting, or task ends.

**Days:**

Set the day or days on which a weekly appointment, meeting, or task should recur.

### Change a task

1. In the task list, highlight a task.
2. Click the trackwheel.
3. Click **Open**.
4. Change the task information.
5. Click the trackwheel.
6. Click **Save**.

## Change the status of a task

1. In the task list, highlight a task.
2. Click the trackwheel.
3. Perform one of the following actions:
  - To mark the task as complete, click **Mark Completed**.
  - To mark the task as deferred, in progress, or waiting, click **Open**. Set the **Status** field. Click the trackwheel. Click **Save**.

## Hide completed tasks

1. In the task list, click the trackwheel.
2. Click **Hide Completed**.

## Forward a task or memo

1. In the task list or memo list, highlight a task or memo.
2. Click the trackwheel.
3. Click **Forward As**.
4. Click a message type.

## Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.
  - To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Delete a task

1. In the task list, highlight a task.
2. Click the trackwheel.
3. Click **Delete**.



# Categories

## About categories

You can create categories to group your contacts, tasks, and memos. You can also narrow the contacts, tasks, and memos that appear based on categories.

Category names are not case sensitive. More than one category can apply to a contact, task, or memo. If you use IBM® Lotus Notes®, you can apply more than one category to a task on your BlackBerry® device, but only one category synchronizes with the task in Lotus Notes.

Categories are shared between the address book, the task list, and the memo list and changes that you make in one application are made in all applications.

## Create a category for contacts, tasks, or memos

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Click the trackwheel.
4. Click **New**.
5. Type a name for the category.
6. Press the **Enter** key twice.

## Categorize a contact, task, or memo

1. When creating or changing a contact, task, or memo, click the trackwheel.
2. Click **Categories**.
3. Select the check box beside a category.
4. Click the trackwheel.
5. Click **Save**.

## Sort contacts, tasks, or memos by category

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Select the check box next to a category.

## Delete a contact, task, or memo from a category

1. When changing a contact, task, or memo, click the trackwheel.
2. Click **Categories**.

3. Highlight a category.
4. Click the trackwheel.
5. Clear the check box beside the category.
6. Click the trackwheel.
7. Click **Save**.

## Delete a category

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Highlight a category.
4. Click the trackwheel.
5. Click **Delete**.

**Note:** When you delete a category, contacts, tasks, or memos in the category are not deleted.

## Task list options

### Sort contacts or tasks

1. In the address book or the task list, click the trackwheel.
2. Click **Options**.
3. Change the **Sort By** field.
4. Click the trackwheel.
5. Click **Save**.

### Set a snooze time for reminders

1. In the calendar or task list, click the trackwheel.
2. Click **Options**.
3. Set the **Snooze** field.
4. Click the trackwheel.
5. Click **Save**.

### View tasks in the calendar

1. In the calendar, click the trackwheel.
2. Click **Options**.
3. Set the **Show Tasks** field to **Yes**.
4. Click the trackwheel.

5. Click **Save**.

## Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## View the number of contacts, calendar entries, tasks, or memos stored on your device

1. In the address book, calendar, task list, or memo list, click the trackwheel.
2. Click **Options**.

The Number of Entries field displays the number of contacts, calendar entries, tasks, or memos that are stored on your device.



# Memos

## Memo basics

### Create a memo

1. In the memo list, click the trackwheel.
2. Click **New**.
3. Type the memo information.
4. Click the trackwheel.
5. Click **Save**.

### Change a memo

1. In the memo list, highlight a memo.
2. Click the trackwheel.
3. Click **Edit**.
4. Change the memo information.
5. Click the trackwheel.
6. Click **Save**.

### Forward a task or memo

1. In the task list or memo list, highlight a task or memo.
2. Click the trackwheel.
3. Click **Forward As**.
4. Click a message type.

### Check spelling

You can check the spelling in messages, memos, tasks, or calendar entries that you create.

1. In a message, memo, task, or appointment, click the trackwheel.
2. Click **Check Spelling**.
3. Perform any of the following actions:
  - To accept the suggested spelling, click the highlighted word.
  - To ignore the suggested spelling, press the **Escape** key.
  - To ignore all instances of the suggested spelling, click **Menu**. Click **Ignore All**.
  - To add the word to the custom dictionary, click **Menu**. Click **Add To Dictionary**.

- To stop checking the spelling, click **Menu**. Click **Cancel Spell Check**.

## Delete a memo

1. In the memo list, highlight a memo.
2. Click the trackwheel.
3. Click **Delete**.

## Categories

### About categories

You can create categories to group your contacts, tasks, and memos. You can also narrow the contacts, tasks, and memos that appear based on categories.

Category names are not case sensitive. More than one category can apply to a contact, task, or memo. If you use IBM® Lotus Notes®, you can apply more than one category to a task on your BlackBerry® device, but only one category synchronizes with the task in Lotus Notes.

Categories are shared between the address book, the task list, and the memo list and changes that you make in one application are made in all applications.

### Create a category for contacts, tasks, or memos

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Click the trackwheel.
4. Click **New**.
5. Type a name for the category.
6. Press the **Enter** key twice.

### Categorize a contact, task, or memo

1. When creating or changing a contact, task, or memo, click the trackwheel.
2. Click **Categories**.
3. Select the check box beside a category.
4. Click the trackwheel.
5. Click **Save**.

## Sort contacts, tasks, or memos by category

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Select the check box next to a category.

## Delete a contact, task, or memo from a category

1. When changing a contact, task, or memo, click the trackwheel.
2. Click **Categories**.
3. Highlight a category.
4. Click the trackwheel.
5. Clear the check box beside the category.
6. Click the trackwheel.
7. Click **Save**.

## Delete a category

1. In the address book, task list, or memo list, click the trackwheel.
2. Click **Filter**.
3. Highlight a category.
4. Click the trackwheel.
5. Click **Delete**.

**Note:** When you delete a category, contacts, tasks, or memos in the category are not deleted.

## Memo list options

### Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## View the number of contacts, calendar entries, tasks, or memos stored on your device

1. In the address book, calendar, task list, or memo list, click the trackwheel.
2. Click **Options**.

The Number of Entries field displays the number of contacts, calendar entries, tasks, or memos that are stored on your device.



# Alarm

## About the alarm

In the BlackBerry® device alarm, you can set the alarm to sound at the same time everyday or only on weekdays. You can also set a snooze time for the alarm and adjust the alarm volume.

If you turn off your device by pressing the Power button, or by clicking Turn Power Off and selecting Turn Off, the alarm is designed to sound at the correct time even if the device is turned off.

## Turn on the alarm

1. In the alarm, change the **Daily Alarm** field to **On** or **Weekdays Only**.
2. Change the alarm options.

A bell indicator appears beside the date in the device status section of the screen.

## Silence the alarm

- If snooze is not turned on, press any key.
- If snooze is turned on, click **Snooze**.



# Calculator

## Use the calculator

- To press a key in the calculator, press the corresponding key on the BlackBerry® device keyboard.

## Convert a measurement

1. In the calculator, type a number.
2. Click the trackwheel.
3. Perform one of the following actions:
  - To convert the number from imperial to metric, click **To Metric**.
  - To convert the number from metric to imperial, click **From Metric**.
4. Click a conversion type.



# Bluetooth technology

## Bluetooth technology basics

### About Bluetooth technology

Bluetooth® technology is designed to enable you to establish a wireless connection between your BlackBerry® device and a Bluetooth enabled device, such as a handsfree car kit or wireless stereo headset. After you pair your BlackBerry device with a Bluetooth enabled device, you can connect to that Bluetooth enabled device when the device is within range of your BlackBerry device (a typical range is approximately 10 meters).

When you turn on Bluetooth technology or when you connect your BlackBerry device to another Bluetooth enabled device, Bluetooth icons appear in the device status section of the screen. See the printed documentation that came with your BlackBerry device for more information about Bluetooth icons.

### Turn on Bluetooth technology

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Enable Bluetooth**.

To turn off Bluetooth® technology, click the trackwheel. Click **Disable Bluetooth**.

### Pair with a Bluetooth enabled device

Some Bluetooth® enabled devices have passkeys that you must type before you can pair with them.

1. In the Bluetooth setup application, click **OK**.
2. Click a Bluetooth enabled device.
3. If required, type the passkey for the Bluetooth enabled device on your BlackBerry® device.
4. If required, type the passkey for the Bluetooth enabled device on the Bluetooth enabled device.

### Connect to a Bluetooth enabled device

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth enabled device.
3. Click **Connect**.

### Switch to a paired Bluetooth enabled device during a call

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. During a call, click the trackwheel.
2. Click **Activate <Bluetooth device>**.

## Rename a paired Bluetooth enabled device

1. In the device options, click **Bluetooth**.
2. Click a paired Bluetooth® enabled device.
3. Click **Device Properties**.
4. In the **Device Name** field, change the name for the Bluetooth enabled device.
5. Click the trackwheel.
6. Click **Save**.

## Delete a paired Bluetooth enabled device

Verify that your BlackBerry® device is not connected to the Bluetooth® device.

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth enabled device.
3. Click **Delete Device**.

## Share contacts with a paired Bluetooth enabled car kit

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled car kit.

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth enabled car kit.
3. Click **Connect**.
4. Click the trackwheel.
5. Click **Transfer Address Book**.

## Bluetooth technology options

### Prevent your device from sharing contacts with Bluetooth enabled devices

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Options**.
4. Set the **Address Book Transfer** field to **Disabled**.
5. Click the trackwheel.
6. Click **Save**.

To share contacts with Bluetooth® enabled devices again, set the **Address Book Transfer** field to **Enabled**.

## Restrict outgoing calls

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Options**.
4. Set the **Allow outgoing calls** field to **Never** or **If Unlocked**.
5. Click the trackwheel.
6. Click **Save**.

## Make your BlackBerry device discoverable

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Options**.
4. Set the **Discoverable** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

## Change the pairing name for your BlackBerry device

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Options**.
4. In the **Device Name** field, type a name for your BlackBerry® device.
5. Click the trackwheel.
6. Click **Save**.

## Turn off Bluetooth connection notification

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Options**.
4. Set the **LED Connection Indicator** field to **Off**.
5. Click the trackwheel.
6. Click **Save**.

To turn on Bluetooth® connection notification again, set the **LED Connection Indicator** field to **Yes**.

## Turn off the prompt that appears when connecting or pairing

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth® enabled device.
3. Click **Device Properties**.
4. Set the **Trusted** field to **Yes**.
5. Click the trackwheel.
6. Click **Save**.

To turn on the prompt again, set the **Trusted** field to **No**.

## Bluetooth technology troubleshooting

### I cannot type a passkey on a Bluetooth enabled device

If the Bluetooth® enabled device that you are pairing with has no screen where you can type a passkey, the passkey might already be defined.

On your BlackBerry® device, in the **Enter passkey for <device name>** field, try typing **0000**.

### My list of paired Bluetooth enabled devices does not appear

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that you have added Bluetooth enabled devices to the paired Bluetooth enabled devices list.

### I cannot pair with a Bluetooth enabled device

Try performing the following actions:

- Verify that your BlackBerry® device is compatible with the Bluetooth® enabled device. See the documentation that came with the Bluetooth enabled device for more information.
- Turn off encryption for Bluetooth connections between your BlackBerry device and the Bluetooth enabled device. In the device options, click **Bluetooth**. Click a Bluetooth enabled device. Click **Device Properties**. Set the **Encryption** field to **Disabled**. Click the trackwheel. Click **Save**.

### I cannot share contacts with a paired Bluetooth enabled device

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that your BlackBerry® device is paired with the Bluetooth enabled device.
- Verify that, in the Bluetooth options, the **Address Book Transfer** field is set to **Enabled**.



- Verify that your BlackBerry device is connected to a Bluetooth enabled device that supports the Handsfree profile or the Object Push profile. See the documentation that came with the Bluetooth enabled device for more information about supported profiles.



# Date and time

## Set the date and time

1. In the device options, click **Date/Time**.
2. Set the date and time.
3. Click the trackwheel.
4. Click **Save**.

## Get the date and time from the wireless network automatically

1. In the device options, click **Date/Time**.
2. Set the **Time Zone** field.
3. Perform one of the following actions:
  - To get the date and time from the wireless network that your BlackBerry® device is connected to, set the **Date/Time Source** field to **Network**.
  - To get the date and time from the BlackBerry network, set the **Date/Time Source** field to **BlackBerry**.
  - To set the time yourself, set the **Date/Time Source** field to **Off**.
4. Click the trackwheel.
5. Click **Update Time**.
6. Click the trackwheel.
7. Click **Save**.

## Date and time troubleshooting

### The time on my device is incorrect

Try performing the following actions:

- If you have traveled to a different time zone, set the **Time Zone** field to display the correct time zone.
- If you have set the **Date/Time Source** field to **Network**, try setting the **Date/Time Source** field to **BlackBerry**.



# Notification profiles

## Notification basics

### About notification profiles

Notification profiles define how your BlackBerry® device notifies you of calendar and task reminders, and incoming messages, calls, and browser content. Your device has six preloaded profiles: Loud, Vibrate, Quiet, Normal, Phone Only, and Off.

You can change preloaded notification profiles or create new ones. In your notification profiles, you can set different notification options for different items, set ring tones, or set the volume for notification. If you set notification volume to Escalating, the notification volume gradually increases.

### Switch notification profiles

1. In the profile list, click a notification profile.
2. Click **Activate**.

### Create a notification profile

1. In the profile list, click **Advanced**.
2. Click the trackwheel.
3. Click **New Profile**.
4. Type a name for the profile.
5. Highlight an item.
6. Click the trackwheel.
7. Click **Edit**.
8. Set notification options.
9. Click the trackwheel.
10. Click **Save**.
11. To set notification options for another item, repeat steps 5 through 10.
12. Click the trackwheel.
13. Click **Save**.

### Change a notification profile

1. In the profile list, click **Advanced**.
2. Click a notification profile.
3. Click **Edit**.

4. Change the notification profile.
5. Click the trackwheel.
6. Click **Save**.

## Delete a notification profile

You can only delete notification profiles that you created.

1. In the profile list, click **Advanced**.
2. Click a notification profile.
3. Click **Delete**.

## Set the same ring tone for all notification profiles

1. In the profile list, click **Advanced**.
2. Click a notification profile.
3. Click **Show Tunes**.
4. Click a media folder that contains ring tones.
5. Click **Open**.
6. Click a ring tone.
7. Click **Set As Phone Tune**.

## Prevent notification during calls

1. In the profile list, click **Advanced**.
2. Click a notification profile.
3. Click **Edit**.
4. Highlight an item.
5. Click the trackwheel.
6. Click **Edit**.
7. Set the **Notify Me During Calls** field to **No**.
8. Click the trackwheel.
9. Click **Save**.
10. To set the **Notify Me During Calls** field for another item, repeat steps 5 through 10.
11. Click the trackwheel.
12. Click **Save**.

## Silence your device

1. In the profile list, perform one of the following actions:

- To receive LED notification only, click **Quiet**.
  - To receive vibrate notification only, click **Vibrate**.
  - To turn off all notification, including notification profile exceptions and LED notification, click **Off**.
2. Click **Activate**.

## View a list of saved ring tones

1. In the profile list, click **Advanced**.
2. Click a notification profile.
3. Click **Show Tunes**.
4. Click a media folder that contains ring tones.
5. Click **Open**.

To play a ring tone, highlight a ring tone. Click the trackwheel. Click **Play**.

## Download a ring tone

Verify that your wireless service provider supports this feature.

1. In the media application, click **Ring Tones**.
2. Click **All Ring Tones**.
3. Click the trackwheel.
4. Click **Download Tunes**.

## LED notification

### LED notification

The LED light on the top of your BlackBerry® device flashes different colors to indicate different statuses.

#### Green:

You are in a wireless coverage area.

#### Blue:

Your BlackBerry device is connected to a Bluetooth® enabled device.

#### Red:

A new message has arrived and your selected notification profile is set to notify you using the LED.

#### Amber:

The battery power level for your device is low.

## Turn off Bluetooth connection notification

1. In the device options, click **Bluetooth**.
2. Click the trackwheel.
3. Click **Options**.
4. Set the **LED Connection Indicator** field to **Off**.
5. Click the trackwheel.
6. Click **Save**.

To turn on Bluetooth® connection notification again, set the **LED Connection Indicator** field to **Yes**.

## Turn on wireless coverage notification

1. In the device options, click **Screen/Keyboard**.
2. Set the **LED Coverage Indicator** field to **On**.
3. Click the trackwheel.
4. Click **Save**.

When your BlackBerry® device is connected to the wireless network, the LED light flashes green.

To turn off wireless coverage notification again, set the **LED Coverage Indicator** field to **Off**.

## Custom notification

### About custom notification

You can create notification profile exceptions to receive different notification for incoming messages and calls from specific contacts. For example, you can create a notification profile exception that uses the Loud profile for incoming messages and calls from a specific contact, regardless of your active notification profile.

Your BlackBerry® device applies notification profile exceptions in the order in which they appear in the notification profile exception list. If you create multiple notification profile exceptions that include the same contact, place the notification profile exception that you want your device to apply first in the list.

Your device has one preloaded notification profile exception for important calls. You can add contacts to this notification profile exception, or you can delete it.

### Set custom notification for calls or messages from a specific contact

1. In the profile list, click **Advanced**.
2. Click the trackwheel.
3. Click **New Exception**.
4. In the **Exception** field, type a name for the profile exception.
5. In the **From** field, click the trackwheel.



6. Click **Add Name**.
7. Click a contact.
8. Click **Continue**.
9. To add another contact, repeat steps 5 through 8.
10. Set the **Use Profile** field to the notification profile on which the exception should be based.
11. To set a ring tone, select the **Custom Phone Tune** check box. Set a ring tone.
12. Click the trackwheel.
13. Click **Save**.

## Change the order of notification profile exceptions

1. In the profile list, click **Advanced**.
2. Click a notification profile exception.
3. Click **Move**.
4. Roll the trackwheel to the new location.
5. Click the trackwheel.

## Change a notification profile exception

1. In the profile list, click **Advanced**.
2. Click a notification profile exception.
3. Click **Edit**.
4. Change the notification profile exception information.
5. Click the trackwheel.
6. Click **Save**.

## Change the list of contacts for a notification profile exception

1. In the profile list, click **Advanced**.
2. Click a notification profile exception.
3. Click **Edit**.
4. In the **From** field, click the trackwheel.
5. Click one of the following menu items:
  - **Add Name**
  - **Change Name**
  - **Delete Name**

## Delete a notification profile exception

1. In the profile list, click **Advanced**.
2. Click a notification profile exception.
3. Click **Delete**.

## About custom ring tones

You can assign a custom ring tone to a contact without changing other notifications.

Custom ring tone options appear with your contacts and your notification profiles. When you assign a custom ring tone to a contact, a new profile exception appears with your notification profiles as "Calls From <contact>". Notification profile exceptions are shared between your contacts and your notification profiles and changes that you make in one application are made in the other application.

Your BlackBerry® device bases the volume for custom ring tones on the volume that you set in the active notification profile.

## Assign a ring tone to a contact

1. In the address book, highlight a contact.
2. Click the trackwheel.
3. Click **Edit**.
4. Click the trackwheel.
5. Click **Add Custom Phone Tune**.
6. Set a ring tone.
7. Click the trackwheel.
8. Click **Save**.

## Notification profile troubleshooting

### My device is vibrating more times than expected

For calls, the number of times that the BlackBerry® device vibrates is not determined by the number of vibrations that you set in your notification profile. The device vibrates until the caller or the wireless network ends the connection.

### I am not receiving notification for incoming calls or messages

Try performing the following actions:

- In the profile list, verify that the Off profile is turned off.
- In a notification profile exception, verify that the **Custom Phone Tune** field is not set to **Mute**.

## **I cannot set some fields when creating a Calls From notification profile exception**

If you assign a custom ring tone to a contact in the address book, a Calls From profile exception appears in the profile list. Because these exceptions are for calls only, you can only set the Custom Phone Tune field.



# BlackBerry Messenger

## Contacts

### Add a contact

You must invite contacts to use BlackBerry® Messenger before they are added to your contact list.

1. In BlackBerry Messenger, on the contact list screen, click the trackwheel.
2. Click **Add a Contact**.
3. Perform one of the following actions:
  - If the contact is not in your address book, highlight **[Use Once]**. Click the trackwheel. Click **Request by Email** or **Request by PIN**. Type an email address or PIN. Press the **Enter** key.
  - If the contact is in your address book, highlight a contact. Click the trackwheel. Click **Request (Email)** or **Request (PIN)**.
4. Perform one of the following actions:
  - If you want to set a password, and have turned on invitation passwords, type a question and answer. Click **OK**.
  - If you do not want to set a password, and have turned on invitation passwords, click **Cancel** to proceed to the next step.
5. Perform one of the following actions:
  - To add a custom message to your invitation, type a message. Click **OK**. Click **OK**.
  - To use the default invitation message, click **OK**. Click **OK**.

**Note:** If you invite a contact using a PIN and the contact is in your address book, the contact's display name appears instead of the PIN.

### Turn on invitation passwords

If you turn on invitation passwords, a question and password screen appear each time you invite a contact.

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.
2. Click **Options**.
3. Set the **Ask Password Question When Adding Contacts** field to **Yes**.
4. Click the trackwheel.
5. Click **Save**.

**Note:** To turn off invitation passwords again, set the **Ask Password Question When Adding Contacts** field to **No**.

### Respond to an invitation

1. In BlackBerry® Messenger, in the **Requests** group, highlight an invitation.
2. Click the trackwheel.
3. Click one of the following menu items:
  - **Accept**.

- **Decline.**
- **Remove.**

**Note:** If you select Remove, the sender of the invitation does not receive confirmation that your address is a correct address.

## Turn off invitation forwarding options

If you turn off invitation forwarding, contacts you invite can only accept invitations from the original email address or PIN that you sent the invitation to. If those contacts try to accept the invitation from a different email address or PIN, their acceptance is rejected.

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.
2. Click **Options**.
3. Set the **Allow Forwarding of Requests** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

**Note:** If you use a BlackBerry Enterprise Server for IBM® Lotus® Domino®, BlackBerry Enterprise Server for Novell® GroupWise®, or the BlackBerry Internet Service, when you send an invitation and the recipient accepts, you might not be notified.

## Delete a contact

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Click the trackwheel.
3. Click **Delete Contact**.

## View a contact's information

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Click the trackwheel.
3. Click **Contact Info**.

## Rename a contact

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Click the trackwheel.
3. Click **Rename Contact**.
4. Type a name.
5. Click **OK**.

## Add a group

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.
2. Click **Add Group**.
3. Type a name for the group.

4. Click **OK**.

## Move a contact to a group

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Click the trackwheel.
3. Click **Move Contact**.
4. Click a group.

**Note:** A contact can only be in one group at a time. If you move a contact to a group, the contact is moved out of the group it was in originally.

## Rename a group

1. In BlackBerry® Messenger, on the contact list screen, highlight a group.
2. Click the trackwheel.
3. Click **Rename Group**.
4. Type a name for the group.
5. Click **OK**.

## Delete a group

You must move your contacts out of a group before you can delete that group.

1. In BlackBerry® Messenger, highlight a group.
2. Click the trackwheel.
3. Click **Delete Group**.

**Note:** There must be at least one group in your BlackBerry Messenger contact list; you cannot delete the last remaining group in your contact list.

## Conversations

### Start a conversation

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Click the trackwheel.
3. Click **Start Conversation**.
4. Type a message.
5. Press the **Enter** key.

## Open a conversation

Conversations appear in the conversation list and the main message list.

1. In BlackBerry® Messenger, in the conversation list, highlight a contact.
2. Click the trackwheel.
3. Click **Open Conversation**.

## Add an emoticon

1. When composing a message, press the **Symbol** key twice.
2. Click an emoticon.

## Send a file to a contact

1. During a BlackBerry® Messenger conversation, click the trackwheel.
2. Click **Send a File**.
3. Perform one of the following actions:
  - To send a picture to a contact, click **Image**.
  - To send an audio file to a contact, click **Audio**.
4. Click a file.

## Ping a contact

When you ping a contact, the contact's BlackBerry® device vibrates.

1. During a BlackBerry Messenger conversation, click the trackwheel.
2. Click **Ping Contact**.

## Turn off ping vibration

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.
2. Click **Options**.
3. Set the **Vibrate When Receiving a Ping** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

To turn on ping vibration again, set the **Vibrate When Receiving a Ping** field to **Yes**.

## Prevent conversations from appearing in the main message list

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.
2. Click **Options**.



3. Set the **Show Conversations in Message List** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

To view conversations in the main message list again, set the **Show Conversations in Message List** field to **Yes**.

## Start a conference

1. In BlackBerry® Messenger, during a conversation, click the trackwheel.
2. Click **Invite**.
3. In the drop-down list, click a contact.
4. Click **OK**.

## Copy a conversation history

When you copy a conversation history, you can paste it into other BlackBerry® device applications.

1. In BlackBerry Messenger, during a conversation, click the trackwheel.
2. Click **Copy History**.

## Clear a conversation history

1. In BlackBerry® Messenger, during a conversation, click the trackwheel.
2. Click **Clear History**.

## End a conversation

1. In BlackBerry® Messenger, during a conversation, click the trackwheel.
2. Click **End Conversation**.

## Change your display name

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.
2. Click **Edit My Info**.
3. Type a display name.
4. Click **OK**.

## Availability

### Set your availability status

1. In BlackBerry® Messenger, on the contact list screen, click the trackwheel.

2. Click **My Status**.
3. Click one of the following menu items:
  - **Available**.
  - **Unavailable**.
4. Type a message that contacts can see when they view your contact information.
5. Click **OK**.

When you change your availability status to unavailable, you receive BlackBerry Messenger messages, but you are not notified.

### Receive notification when a contact becomes available

1. In BlackBerry® Messenger, on the contact list screen, highlight an unavailable contact.
2. Click the trackwheel.
3. Click **Set Alert**.

# Display and keyboard

## Backlighting

### About backlighting

The screen and keyboard on your BlackBerry® device are designed to be lit so that you can use your device in various lighting conditions. The backlighting is designed to adjust automatically depending on lighting conditions in your environment.

### Turn on backlighting

1. Press the **Power** button once.
2. To increase the brightness, press the **Power** button again.

To turn off backlighting, press the **Power** button.

### Turn off automatic backlighting

1. In the device options, click **Screen/Keyboard**.
2. Set the **Automatic Backlight** field to **Off**.
3. Click the trackwheel.
4. Click **Save**.

### Set the brightness of the backlighting

1. In the device options, click **Screen/Keyboard**.
2. Set the **Backlight Brightness** field.
3. Click the trackwheel.
4. Click **Save**.

### Set how long backlighting remains on

1. In the device options, click **Screen/Keyboard**.
2. Set the **Backlight Timeout** field.
3. Click the trackwheel.
4. Click **Save**.

## Display options

### Use a picture as the Home screen background

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.
4. Click the trackwheel.
5. Click **Set As Home Screen Image**.

To clear the picture from the Home screen, click the trackwheel. Click **Reset Home Screen Image**.

### Download a Home screen background

Verify that your wireless service provider supports this feature.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Click the trackwheel.
4. Click **Download Images**.

### Set the display font

1. In the device options, click **Screen/Keyboard**.
2. Set the font fields.
3. Click the trackwheel.
4. Click **Save**.

### About organizing applications

Depending on your theme, application icons can appear on the Home screen or in an application list. If your theme uses an application list, the first few applications in the application list might also appear on the Home screen as favorites.

### Add an application folder

1. On the Home screen, click the **Applications** icon.
2. Hold the **Alt** key and click the trackwheel.
3. Click **Add Folder**.
4. Type a name for the folder.
5. To change the folder icon, in the **Icon** field, click the trackwheel. Click a folder icon. Click the trackwheel.
6. Click **Add**.

## Move an application icon

1. On the Home screen, click the **Applications** icon.
2. Highlight an application icon.
3. Hold the **Alt** key and click the trackwheel.
4. Click **Move Application**.
5. Perform one of the following actions:
  - To move the application icon, roll the trackwheel to the new location. Click the trackwheel.
  - To move the application icon into an application folder, click an application folder.
  - To move the application icon out of an application folder, click the **Up** folder.

## Hide an application icon

Depending on your theme, you might not be able to hide some application icons.

1. On the Home screen, click the **Applications** icon.
2. Highlight an application icon.
3. Hold the **Alt** key and click the trackwheel.
4. Click **Hide Application**.

To view a hidden application, hold the **Alt** key and click the trackwheel. Click **Show All**.

## Delete an application folder

1. On the Home screen, click the **Applications** icon.
2. Highlight an application folder.
3. Hold the **Alt** key and click the trackwheel.
4. Click **Delete**.

## Keyboard options

### Turn on key tones

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Tone** field to **On**.
3. Click the trackwheel.
4. Click **Save**.

### Set the cursor speed

1. In the device options, click **Screen/Keyboard**.

2. Set the **Key Rate** field.
3. Click the trackwheel.
4. Click **Save**.

## Assign an application to a Convenience key

Your BlackBerry® device has one Convenience key on the front of the device and one on the left side. Depending on your theme, you might not be able to change the application that is assigned to a Convenience key.

1. In the device options, click **Screen/Keyboard**.
2. Set the **Convenience Key Opens** fields.
3. Click the trackwheel.
4. Click **Save**.

## Themes

### About themes

Depending on your wireless service provider, you might be able to set a theme on your BlackBerry® device that changes how items such as applications, indicators, words, and icons appear. Themes might be preloaded on your device, or you might be able to download themes that are in .cod file format.

### Switch themes

1. In the device options, click **Theme**.
2. Click a theme.
3. Click **Activate**.

### Download a theme

Verify that your wireless service provider supports this feature.

1. In the device options, click **Theme**.
2. Click the trackwheel.
3. Click **Download Themes**.

## Display troubleshooting

### My device screen turns off

When you do not use your BlackBerry® device for a period of time, the screen turns off to conserve battery power.

To turn on the screen, roll the trackwheel or press a key.

## **My display changed**

Depending on your theme, display options, such as your font and Home screen background, might change when you switch themes.





# Language

## Change the display language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your system administrator or wireless service provider.

1. In the device options, click **Language**.
2. Change the **Language** field.
3. Click the trackwheel.
4. Click **Save**.

## Add a display language

You can add a display language using the application loader tool of the BlackBerry® Desktop Manager. For more information about adding applications, including display languages, see the *BlackBerry® Desktop Software Online Help*.

## Delete a display language

In the setup wizard, complete the instructions on the Language Removal screen.

## About typing input languages

You can set a typing input language to use when you type. The typing input language can be different from the display language. When you set a typing input language, AutoText and other typing options change to the selected language. For example, you might use your BlackBerry® device in French, but type messages in English.

## Set the typing input language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your system administrator or wireless service provider.

1. In the device options, click **Language**.
2. Set the **Input Language** field.
3. Click the trackwheel.
4. Click **Save**.

## Turn off the shortcut for switching typing input languages

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your system administrator or wireless service provider.

1. In the device options, click **Language**.
2. Set the **Use Input Method Shortcut** field to **No**.
3. Click the trackwheel.
4. Click **Save**.

To turn on the shortcut for switching typing input languages again, set the **Use Input Method Shortcut** field to **Yes**. To receive notification when you switch typing input languages, set the **Notify me** field to **Yes**.

## Set display options for contacts

You can set how your contacts appear in all applications, including the phone, message list, address book, and calendar.

1. In the device options, click **Language**.
2. Set the **Name Display** field to **Last name, First name**.
3. Click the trackwheel.
4. Click **Save**.

To sort your contacts by first name, set the **Name Display** field to **First name Last name**.

## Language troubleshooting

### Some characters do not appear correctly on my device

The BlackBerry® Enterprise Server or BlackBerry Internet Service that is associated with your BlackBerry device might not support the characters. For more information, contact your system administrator or your wireless service provider.

# Wireless network coverage

## Find information about wireless coverage indicators

Your BlackBerry® device uses various indicators to indicate the current wireless coverage level. See the printed documentation that came with your device for more information about wireless coverage indicators.

## Turn off the connection to the wireless network

You should turn off the connection to the wireless network in certain places, such as on an airplane or in a hospital. See the *BlackBerry Safety and Product Information Booklet* for more information.

On the Home screen or in the application list, click **Turn Wireless Off**.

To connect your BlackBerry® device to the wireless network again, click **Turn Wireless On**.

## Turn on wireless coverage notification

1. In the device options, click **Screen/Keyboard**.
2. Set the **LED Coverage Indicator** field to **On**.
3. Click the trackwheel.
4. Click **Save**.

When your BlackBerry® device is connected to the wireless network, the LED light flashes green.

To turn off wireless coverage notification again, set the **LED Coverage Indicator** field to **Off**.

## About the preferred wireless network list

Your wireless service provider might have agreements with other wireless networks that permit you to use their services when you are traveling. You can use the preferred wireless network list to control the order in which your BlackBerry® device uses these other wireless networks. When you travel, your device scans for the wireless networks on this list first.

Your device tries to connect to a wireless network based on the order in which the wireless networks appear in your preferred wireless network list. If no wireless network on the list is available, your device is designed to connect to another available wireless network automatically.

**Note:** Extra fees usually apply when you roam. Contact your wireless service provider for more information about roaming fees.

## Add a wireless network to the preferred wireless network list

Verify that your wireless service plan includes this service.

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **My Preferred Network List**.

4. Click the trackwheel.
5. Click **Add Network**.
6. Perform one of the following actions:
  - To scan for a wireless network to add, click **Select From Available Networks**. Click a wireless network. Click **Select Network**.
  - To scan for a wireless network that is already known to your BlackBerry® device, click **Select From Known Networks**. Click a wireless network. Click **Select Network**.
  - To add a wireless network, click **Manual Entry**. Set the priority for the wireless network. Type the MCC and MNC.
7. Click the trackwheel.
8. Click **Save**.

## Set the wireless network connection speed

Depending on your wireless service provider, you might not be able to set the wireless network connection speed.

1. In the device options, click **Network**.
2. Perform one of the following actions:
  - To connect to the wireless network at whatever network speed is available, set the **Network Mode** field to **3G&2G**.
  - To connect to the wireless network at a specific speed, set the **Network Mode** field to **2G** or **3G**.
3. Click the trackwheel.
4. Click **Save**.

## Change the order of preferred wireless networks

Verify that your wireless service plan includes this service.

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **My Preferred Network List**.
4. Highlight a wireless network.
5. Click the trackwheel.
6. Click **Move**.
7. Roll the trackwheel to the new location.
8. Click the trackwheel.
9. Click the trackwheel.
10. Click **Save**.

## Delete a wireless network from the preferred wireless network list

Verify that your wireless service plan includes this service.

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **My Preferred Network List**.
4. Highlight a wireless network.
5. Click the trackwheel.
6. Click **Delete**.
7. Click the trackwheel.
8. Click **Save**.

## Turn off data service

Depending on your wireless service plan, you might be able to turn off data service (email, PIN, MMS, and browser service) on your BlackBerry® device so that only phone and SMS text messaging services are available. Contact your wireless service provider for more information.

1. In the device options, click **Mobile Network**.
2. Perform one of the following actions:
  - To turn off data service, set the **Data Services** field to **Off**.
  - To turn off data service when roaming, set the **Data Services** field to **Off When Roaming**.
3. Click the trackwheel.
4. Click **Save**.

## About roaming

In most cases, your BlackBerry® device automatically connects to an appropriate wireless network when you travel outside your wireless service provider's wireless network coverage area. Your wireless service provider must set up your SIM card for roaming services before you can use a different wireless network.

An indicator appears on your device to let you know that you are roaming outside of your normal network area. You might also have to provide login information before you can access the wireless network. Contact your wireless service provider for more information about roaming.

## Switch wireless networks manually

Verify that your wireless service provider has set up your SIM card for this service.

By default, your BlackBerry® device switches to an appropriate wireless network automatically when you travel.

1. In the device options, click **Mobile Network**.
2. Change the **Network Selection Mode** field to **Manual**.
3. Click **Scan for Available Networks**.
4. Click a wireless network.
5. Click **Select Network**.

6. Click the trackwheel.
7. Click **Save**.

To connect to your wireless service provider's network again, change the **Network Selection Mode** field to **Automatic**.

## Wireless network coverage troubleshooting

### I cannot connect to a wireless network

Try performing the following actions:

- Verify that your SIM card is inserted in your BlackBerry® device correctly.
- Verify that you have turned on the connection to the wireless network.
- Verify that you are connected to your wireless service provider's network. If you switched wireless networks manually, your device remains connected to that wireless network until you select your wireless service provider's network again.
- If you have specified a specific wireless network connection speed, verify that you are in a wireless coverage area that supports the connection speed.

### I cannot synchronize a certificate

Verify that the certificate synchronization tool of the BlackBerry® Desktop Manager is installed on your computer. If the certificate synchronization tool is not installed on your computer, re-install the BlackBerry Desktop Software. For more information about installing the BlackBerry Desktop Software, see the printed documentation that came with your BlackBerry device.

# Power and battery

## Turn off your device

Depending on your theme, the location or name for Turn Power Off might differ from the location or name in this procedure. For more information about application locations and names, see the printed documentation that came with your device.

- If you have not set your BlackBerry® device to turn on and turn off automatically at specific times, hold the **Power** key.
- If you have set your device to turn on and turn off automatically at specific times, on the Home screen, click **Turn Power Off**. If you want the device to stay turned off until you press the **Power** key, click **Full Power Off**. If you want the device to turn on again at the specified time or for alarm or calendar reminders, click **Turn Off**.

## Set your device to turn on and turn off automatically

1. In the device options, click **Auto On/Off**.
2. Set the **Weekday** field to **Enabled**.
3. Specify the times when the BlackBerry® device should turn on and off on weekdays.
4. Set the **Weekend** field to **Enabled**.
5. Specify the times when the device should turn on and off on weekends.
6. Click the trackwheel.
7. Click **Save**.

## Check the battery power level

In the device options, click **Status**.

## Reset the device

Remove and reinsert the battery.

## Extend battery life

- Set the BlackBerry® device to turn on and turn off automatically.
- Turn off the connection to a wireless network when you are not in a coverage area for that wireless network.
- Delete the original message when you send a reply.
- Lower the brightness of the backlighting.
- Send a message to multiple contacts using Add To, Add Cc, or Add Bcc.
- Charge your device regularly.





# SIM card

## About the SIM card phone book

Use the SIM card phone book to access contacts that you have added to your SIM card. The SIM card phone book is different from the address book on your BlackBerry® device. If you switch SIM cards, the contacts in the SIM card phone book change.

You can add ADN entries to your SIM card phone book. You can also search for ADN or SDN entries. ADN entries appear in plain text and SDN entries appear in bold.

## Load the SIM card phone book

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Wait for the SIM card phone book to load.
4. Press the **Escape** key.

## Add a contact to your SIM card

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Click the trackwheel.
4. Click **New**.
5. Type the contact information.
6. Click the trackwheel.
7. Click **Save**.

## Copy contacts from your SIM card to your address book

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Click the trackwheel.
4. Click **Copy All To Address Book**.

**Note:** If you try to copy a SIM card contact with a phone number that matches the phone number of a contact that is already listed in your address book, your BlackBerry® device does not copy the SIM card contact.

## Copy contacts from your address book to your SIM card

Verify that you have loaded the SIM card phone book.

1. In the address book, click a contact.
2. Click **View**.
3. Highlight a phone number.
4. Click the trackwheel.
5. Click **Copy to SIM Phone Book**.
6. Click the trackwheel.
7. Click **Save**.

## Change a SIM card contact

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Highlight a contact.
4. Click the trackwheel.
5. Click **Edit**.
6. Change the contact information.
7. Click the trackwheel.
8. Click **Save**.

## Delete a SIM card contact

Verify that your wireless service provider has set up your SIM card for a SIM card phone book.

1. In the address book, click the trackwheel.
2. Click **SIM Phone Book**.
3. Highlight a contact.
4. Click the trackwheel.
5. Click **Delete**.

## Store SMS text messages on your SIM card

If you set your SIM card to store SMS text messages, the SIM card does not delete SMS text messages after the BlackBerry® device imports them to a message list.

1. In the device options, click **SMS**.
2. Set the **Leave Messages On SIM Card** field to **Yes**.

3. Click the trackwheel.
4. Click **Save**.

To stop storing SMS text messages on your SIM card, set the **Leave Messages On SIM Card** field to **No**. If you set this field to No, SMS text messages on your SIM card are deleted after the device imports them to a message list.

## About SIM card security

Use SIM card security to add another level of security to your device. This level of security is designed to prevent unauthorized use of your BlackBerry® device or SIM card by locking the SIM card with a PIN code. If you lock your SIM card, other people cannot remove your SIM card and insert their own and they cannot remove your SIM card and insert it into another device.

If you have protected your SIM card with a PIN code, you must type the PIN code before you can remove your SIM card and insert it into another device.

## Protect your SIM card with a PIN code

Verify that your wireless service provider has provided you with a SIM card PIN code.

1. In the device options, click **Advanced Options**.
2. Click **SIM Card**.
3. Click the trackwheel.
4. Click **Enable Security**.
5. Type your SIM card PIN code.
6. Click the trackwheel.

**Note:** If you type the SIM card PIN code incorrectly three times, your SIM card does not function. Contact your wireless service provider for more information.

## Change the SIM card PIN code

Verify that you have turned on SIM card PIN code security.

1. In the device options, click **Advanced Options**.
2. Click **SIM Card**.
3. Click the trackwheel.
4. Click **Change PIN2 Code**.

## Change the display name for a phone number

If your SIM card supports more than one phone number, you can personalize the display name for your phone numbers.

1. In the device options, click **Advanced Options**.
2. Click **SIM Card**.
3. Highlight a phone number.

4. Click the trackwheel.
5. Click **Edit SIM Phone Number**.
6. Type a display name for the phone number.
7. Click the trackwheel.
8. Click the trackwheel.
9. Click **Save**.

# Security

## Security basics

### About the device password

If you type your BlackBerry® device password incorrectly, you might be prompted to type **blackberry** before you can continue. When you try to type your password again, the characters that you type appear on the screen.

If you exceed the number of allowed password attempts, your device deletes all your device data for security reasons.

### Set a device password

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Password** field to **Enabled**.
4. Click the trackwheel.
5. Click **Save**.

To turn off the BlackBerry® device password, set the **Password** field to **Disabled**.

### Change the device password

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Click the trackwheel.
4. Click **Change Password**.

### Lock the device

Verify that you have set a BlackBerry® device password.

On the Home screen or in the application list, click **Lock**.

To unlock your device, on the Lock screen, roll the trackwheel. Click **Unlock**. Type your device password. Press the **Enter** key.

### Lock the keyboard

If you do not set a BlackBerry® device password, you can lock your keyboard to avoid making calls and pressing keys accidentally.

On the Home screen or in the application list, click **Keyboard Lock**.

To unlock the keyboard, press the asterisk (\*) key and the **Send** key.

## Set a limit for device password attempts

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Number of Password Attempts** field.
4. Click the trackwheel.
5. Click **Save**.

## Encryption

### About content protection

Content protection is designed to encrypt your BlackBerry® device data. When content protection is turned on, your device uses a private key to encrypt data as it is stored on the device, including data that your device receives when it is locked. Your device decrypts data as you access it.

You can set content protection to include or exclude your contacts. If you turn on content protection for contacts and you receive a call when the device is locked, the caller name does not appear on the screen.

When you lock your device, an open lock indicator appears in the device status section of the screen to indicate that your device is deleting a copy of the private key from the temporary device memory. A lock indicator appears when the device has deleted the key.

### Protect your device data

Verify that you have set a BlackBerry® device password.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Content Protection** field to **Enabled**.
4. To set content protection to exclude your contacts, set the **Include Address Book** field to **No**.
5. Click the trackwheel.
6. Click **Save**.

### Set content protection strength

Verify that content protection is turned on.

You can set the strength of the encryption that your BlackBerry® device uses to protect data that you receive when your device is locked.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Strength** field.
4. Click the trackwheel.

5. Click **Save**.

## About encryption keys

If your BlackBerry® device is associated with an email account that uses a BlackBerry Enterprise Server or BlackBerry Desktop Redirector, your device is designed to use an encryption key to protect data as it travels between the BlackBerry Enterprise Server or BlackBerry Desktop Redirector and your device.

You should generate a new encryption key every 2 weeks.

## Generate an encryption key

Verify that your BlackBerry® device is associated with an email account that uses BlackBerry Enterprise Server version 4.0 or later. If your device is associated with an email account that uses an earlier version of the BlackBerry Enterprise Server, see the *BlackBerry Desktop Software Online Help* for more information.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Click a service.
4. Click **Regenerate Encryption Key**.

## About content compression

Content compression is designed to reduce the size of your BlackBerry® device data while maintaining the integrity of that data. When content compression is turned on, your device compresses all device data, including messages, contacts, calendar entries, tasks, and memos. You should keep content compression turned on.

If content compression and content protection are turned on, your device compresses device data before encrypting it.

## Password keeper

### About the password keeper

Use the password keeper to store all your passwords in one place. The password keeper is designed to protect your passwords with a password keeper password. When you type this password, the password keeper decrypts your passwords.

You can also use the password keeper to generate random passwords that contain numbers, letters, and symbols.

### Add a password to the password keeper

1. In the password keeper, click the trackwheel.
2. Click **New**.
3. Type the password information.
4. Click the trackwheel.

5. Click **Save**.

## Generate a random password

1. In the password keeper, click the trackwheel.
2. Click **New**.
3. Click the trackwheel.
4. Click **Random Password**.
5. Type the password information.
6. Click the trackwheel.
7. Click **Save**.

## Set criteria for randomly generated passwords

1. In the password keeper, click the trackwheel.
2. Click **Options**.
3. Set the random password fields.
4. Click the trackwheel.
5. Click **Save Options**.

## View a password in the password keeper

1. In the password keeper, click a password.
2. Click **View**.

## Change a password in the password keeper

1. In the password keeper, highlight a password.
2. Click the trackwheel.
3. Click **Edit**.
4. Change the password information.
5. Click the trackwheel.
6. Click **Save**.

## Hide passwords in the password keeper

1. In the password keeper, click the trackwheel.
2. Click **Options**.
3. Set the **Show Password** field to **No**.
4. Click the trackwheel.



5. Click **Save Options**.

To show passwords in the password keeper again, set the **Show Password** field to **Yes**.

## Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete items in a message list, the phone, the address book, the calendar, the task list, the memo list, or the password keeper.

1. In an application, click the trackwheel.
2. Click **Options** or **General Options**.
3. Set the **Confirm Delete** field to **No**.
4. Click the trackwheel.
5. Click **Save**.

## Delete a password from the password keeper

1. In the password keeper, highlight a password.
2. Click the trackwheel.
3. Click **Delete**.

## Change the password keeper password

1. In the password keeper, click the trackwheel.
2. Click **Change password**.

## Copy a password

1. In the password keeper, highlight a password.
2. Click the trackwheel.
3. Click **Copy Username** or **Copy Password**.

To clear the clipboard, click the trackwheel. Click **Clear Clipboard**.

**Note:** Passwords are not encrypted when they are on the clipboard.

## Prevent password copying

1. In the password keeper, click the trackwheel.
2. Click **Options**.
3. Set the **Allow Clipboard Copy** field to **No**.
4. Click the trackwheel.
5. Click **Save Options**.

## Set a limit for password attempts in the password keeper

1. In the password keeper, click the trackwheel.
2. Click **Options**.
3. Set the **Password Attempts** field.
4. Click the trackwheel.
5. Click **Save Options**.

## Advanced security

### About security self-tests

Security self-tests are designed to verify that security software is implemented correctly on your BlackBerry® device. The tests should run automatically when your device restarts.

### Verify security software

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Click the trackwheel.
4. Click **Verify Security Software**.

### About certificates

You can use certificates if you install the S/MIME Support Package for BlackBerry® devices. For more information, see the user guide supplement for the S/MIME Support Package for BlackBerry devices.

### About the key store

You can use the key store if you install the S/MIME Support Package for BlackBerry® devices or the PGP® Support Package for BlackBerry® devices. For more information, see the user guide supplement for the S/MIME Support Package for BlackBerry devices or the PGP Support Package for BlackBerry devices.

### About PGP keys

You can use PGP® keys if you install the PGP® Support Package for BlackBerry® devices. For more information, see the user guide supplement for the PGP Support Package for BlackBerry devices.

## About memory cleaning

You can use this feature if you install the S/MIME Support Package for BlackBerry® devices or the PGP® Support Package for BlackBerry® devices. For more information, see the user guide supplement for the S/MIME Support Package for BlackBerry devices or the PGP Support Package for BlackBerry devices.

## Smart cards

### About smart password entry

If you use two-factor authentication and your BlackBerry® device password or smart card password is numeric, you might be able to use smart password entry in some password fields. When smart password entry is turned on, your device is designed to remember the format of a password that you type in a password field. When you type the password again, your device applies a smart password filter to the password field. If the password is numeric, a 123 indicator appears beside the password field and you do not have to press the Alt key to type numbers. If the password is alphanumeric, an ABC indicator appears beside the password field.

### Prerequisites: Smart password entry

- Verify that the correct smart card driver and smart card reader driver are installed on your BlackBerry® device.
- Verify that two-factor authentication is turned on.

### Turn off smart password entry

You can turn off smart password entry to reduce the chance that someone might guess your BlackBerry® device password or smart card password based on the smart password filter that your device applies to password fields.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Smart Password Entry** field to **Disabled**.
4. Click the trackwheel.
5. Click **Save**.

To turn on smart password entry again, set the **Smart Password Entry** field to **Enabled**.

### Switch smart password filters

In a blank password field, press the **Enter** key.

The indicator for the new smart password filter appears beside the password field.

### Prerequisites: Authentication certificates

- Verify that the correct smart card driver and smart card reader driver are installed on your BlackBerry® device.

- Verify that you have imported a certificate from your smart card that you can use for signing and verification. For more information, see the user guide supplement for the S/MIME Support Package for BlackBerry® devices.
- Verify that you have set a device password.
- Verify that two-factor authentication is turned on.
- Verify that you have the smart card password. You should have received this password when you received your smart card.

## Use a certificate to authenticate your smart card

If you use a certificate to authenticate your smart card, the certificate authenticates your smart card whenever you use your smart card to unlock your BlackBerry® device.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Authentication Certificate** field.
4. Click the trackwheel.
5. Click **Save**.

To stop using a certificate to authenticate your smart card, set the **Authentication Certificate** field to **None**.

## Security troubleshooting

### I cannot unlock my device using my smart card

Try performing the following actions:

- Verify that the correct smart card is inserted in the smart card reader.
- Verify that the smart card is inserted in the smart card reader correctly.

### My device prompts me to make an emergency call when I type a password

If your BlackBerry® device password contains a combination of letters that corresponds to an emergency access number, your device might prompt you to make an emergency call when you type your device password.

To continue typing your device password, press the **Escape** key.

# Third-party application control

## About permissions for third-party applications

You can set permissions that control how third-party applications on your BlackBerry® device interact with the other applications on your device. For example, you can control whether third-party applications can access data or the Internet, make calls, or use Bluetooth® connections.

If you have added third-party applications to your device, the device firewall is designed to prevent these applications from sending or receiving data without your knowledge. Before a third-party application sends or receives data, a dialog box prompts you to accept or deny the connection request. If you turn off the prompt, you can reset the firewall options to receive the connection prompt again.

## Reset connection permissions for third-party applications

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Click the trackwheel.
4. Click **Reset Settings**.

## About direct Internet connections for third-party applications

Some third-party applications that you add to your BlackBerry® device might require a direct TCP or HTTP connection to the Internet. For example, a stock price application might need to connect to the Internet to retrieve the latest stock prices. You might have to set the APN that the third-party application uses for this connection.

## Set up a direct Internet connection for a third-party application

Verify that you have an APN and that you have the user name and password for the APN. Contact your wireless service provider for more information.

1. In the device options, click **Advanced Options**.
2. Click **TCP**.
3. Type the APN information.
4. Click the trackwheel.
5. Click **Save**.

## Set permissions for a third-party application

**Note:** Changing permissions for third-party applications can significantly affect the operation of applications on your BlackBerry® device. If you are unsure about how changing these permissions might affect the operation of the applications on your device, contact your system administrator or wireless service provider for more information.

1. In the device options, click **Advanced Options**.
2. Click **Applications**.
3. Highlight a third-party application.
4. Click the trackwheel.
5. Perform one of the following actions:
  - To set permissions for the highlighted third-party application, click **Edit Permissions**.
  - To set permissions for all third-party applications, click **Edit Default Permissions**.
6. Expand **Connections, Interactions, or User Data**.
7. Set the permission fields.
8. Click the trackwheel.
9. Click **Save**.

## Connection permissions for third-party applications

### USB:

Set whether third-party applications can use physical connections, such as a USB cable or RS-232 cable, that you have set up for your BlackBerry® device.

### Bluetooth:

Set whether third-party applications can use Bluetooth® connections.

### Phone:

Set whether third-party applications can make calls or access call logs.

### Location (GPS):

Set whether third-party applications can use your GPS location information.

### Company Network:

Set whether third-party applications can access the Internet or your organization's intranet using your organization's network.

### Carrier Internet:

Set whether third-party applications can access the Internet through your wireless service provider (for example, using a direct Internet connection or a WAP gateway).

## Interaction permissions for third-party applications

### Interprocess Communication:

Set whether third-party applications can communicate with other applications on your BlackBerry® device, such as the device runtime store, the persistent store, or global events.

### Device Settings:

Set whether third-party applications can turn on or turn off your device or change device options, such as display options.

**Module Management:**

Set whether third-party applications can add or delete application modules or access module information such as an application name or version.

**Keystroke Injection:**

Set whether third-party applications can simulate actions, such as pressing a key on your device.

**Browser Filters:**

Set whether third-party applications can register browser filters with the browser on your device to add, change, or delete web site content before it appears in your browser.

**Theme Data:**

Set whether your device can use third-party applications as a source for customized themes.

## Data permissions for third-party applications

**Email:**

Set whether third-party applications can access email, SMS text, or PIN messages on your BlackBerry® device.

**PIM:**

Set whether third-party applications can access organizer data such as contacts, calendar entries, tasks, or memos.

**Files:**

Set whether third-party applications can access files that you store on your device. For example, you can set whether third-party applications can access files that you transfer to your device using the media manager tool of the BlackBerry Desktop Manager or Bluetooth® technology.

**Key Store:**

Set whether third-party applications can access certificates or keys in the key store on your device.

**Key Store Medium Security:**

Set whether third-party applications can access certificates or keys in the key store if your device caches the key store password.





# BrickBreaker

## About BrickBreaker

The object of BrickBreaker is to destroy bricks using a paddle and a ball. During the game, capsules fall from the bricks that you destroy. The capsules provide you with different mechanisms for destroying bricks or controlling the ball or paddle.

When you hit the ball with your paddle 50 times on any level, the bricks descend one space every few seconds.

## BrickBreaker capsules

**Long:**

This capsule makes the paddle longer.

**Slow:**

This capsule slows down the ball.

**Gun:**

This capsule enables you to shoot three bullets at the bricks; a bullet can destroy unbreakable bricks.

**Laser:**

This capsule enables you to shoot unlimited laser beams at the bricks.

**Multi:**

This capsule puts four balls in play.

**Catch:**

This capsule enables you to catch and hold the ball.

**Flip:**

This capsule changes the direction of the paddle.

**Wrap:**

This capsule enables you to move the paddle beyond the edge of the screen.

**Bomb:**

This capsule destroys the next brick that you hit and damages nearby bricks.

**Life:**

This capsule gives you an additional life.

## BrickBreaker scoring

### Catching a capsule:

50 points

### Shooting a brick with the gun:

50 points

### Hitting a brick with the ball:

10 points

### Shooting a brick with the laser:

5 points

### Damaging a brick with a bomb:

5 points

## Play BrickBreaker

- To move the paddle, roll the trackwheel.
- To release the ball in catch mode, press the **Space** key.
- To shoot the laser or gun, press the **Space** key.

## Adjust the volume for BrickBreaker

1. In BrickBreaker, click the trackwheel.
2. Click **Options**.
3. Set the **Volume** field.
4. Click the trackwheel.
5. Click **Save**.

## Set the paddle speed

1. In BrickBreaker, click the trackwheel.
2. Click **Options**.
3. Perform any of the following actions:
  - To set the paddle speed, set the **Paddle movement speed** field.
  - To accelerate the paddle as you roll the trackwheel, select the **Paddle acceleration** check box.
4. Click the trackwheel.

5. Click **Save**.

## Submit a score to the BrickBreaker high score web site

1. In BrickBreaker, click the trackwheel.
2. Click **Send High Score**.

## Check the high scores on the BrickBreaker web site

1. In BrickBreaker, click the trackwheel.
2. Click **High Scores**.



# Service books

## About service books

Service books determine which services are available on your BlackBerry® device.

Your system administrator or wireless service provider can send service books to your device over the wireless network. If your device is associated with an email account that uses a BlackBerry Enterprise Server, you can also receive service books on your device by connecting your device to the BlackBerry Desktop Manager.

## Accept a service book

1. In the device options, click **Advanced Options**.
2. Click **Service Book**.
3. Highlight the new service book.
4. Click the trackwheel.
5. Click **Accept**.

## Delete a service book

1. In the device options, click **Advanced Options**.
2. Click **Service Book**.
3. Highlight a service book.
4. Click the trackwheel.
5. Click **Delete**.

To restore a service book, click the trackwheel. Click **Undelete**.



# Troubleshooting

## BlackBerry basics troubleshooting

### No application opens when I press a Convenience key

Verify that you have not deleted the application that you assigned to the key.

Assign a different application to the key.

### Some features are not available on my device

Depending on your wireless service plan or the type of email account that is associated with your BlackBerry® device, some features might not be available on your device.

If your device is associated with an email account that uses a BlackBerry Enterprise Server, your organization might not have set up some features or might prevent you from using some features or options. If a system administrator has set an option for you, a red lock indicator appears beside the option field.

For more information about the features that are available on your device, contact your system administrator or wireless service provider.

## Phone troubleshooting

### I cannot make or receive calls

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you cannot make calls and fixed dialing is turned on, verify that the phone number for your contact appears in your fixed dialing list or turn off fixed dialing.
- If you have traveled to another country and you have not changed your smart-dialing options, dial the full phone number, including the country code and area code, for your contact.
- If you are not receiving calls, verify that call blocking and call forwarding are turned off.
- If your SIM card supports more than one phone number, but you have only one phone number, verify that the phone number is set as the primary number.

### My phone number appears as Unknown in the phone

Try changing the phone number on your SIM card to change how your phone number appears in the phone. In the device options, click **Advanced Options**. Click **SIM Card**. Click the trackwheel. Click **Edit SIM Phone Number**. Type your phone number. Click the trackwheel.

**Note:** If you change the phone number on your SIM card, you do not change the phone number that your BlackBerry® device uses to make and receive calls.

## I cannot check my voice mail

If you have more than one phone number associated with your BlackBerry® device and you are trying to check your voice mail using a shortcut key, your device calls the voice mail access number for your active phone number.

Try checking the voice mail for your alternate phone number.

## I cannot join a call

If your BlackBerry® device is associated with an enterprise voice phone number, you cannot join a call that you make from or receive to your enterprise voice phone number with a call that you make from or receive to the phone number provided by your wireless service provider.

# Message troubleshooting

## I cannot send messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- If the menu item for sending a message does not appear, verify that you have added an email address or PIN for your contact.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Generate an encryption key.
- Verify that data service is turned on.
- Resend the message.

## I am not receiving messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- If you created an email address or added an existing email address to your device using the email setup web site, verify that you have received an activation message on your device from the BlackBerry Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), use the email setup web site to send a service book to your device.



- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Click the trackwheel. Click **Register Now**.
- Verify that data service is turned on.
- If you use email message filters, verify that the options for email message filters are set correctly.
- Verify that email message forwarding is turned on and that you have selected all the email message folders, including your inbox folder, that you want to receive email messages from.
- Verify that your device is not blocking messages. For more information, contact your system administrator.

## I cannot file email messages

Try performing the following actions:

- Verify that wireless email reconciliation is turned on.
- If your email message folders do not appear on your BlackBerry® device, reconcile your email messages using the email settings tool of the BlackBerry Desktop Manager. See the *BlackBerry Desktop Software Online Help* for more information.

## I received notification of a new message, but no new messages appear in my message list

If you have set your BlackBerry® device to hide filed messages and you receive a new message from an email message folder in the email application on your computer other than your inbox, your device files the message.

## Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

## A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

## Some email message folders appear dimmed

If you cannot forward email messages from an email message folder, the check box beside the folder appears dimmed.

Try performing the following actions:

- Wait for a few seconds. The email message folders might become available after a short period of time.
- Turn off wireless email reconciliation, and then turn it on again.

## Email message filters are not working correctly

Try performing the following actions:

- Verify that your email message filters are turned on.
- Verify that your email message filters appear in the order that you want your BlackBerry® device to apply them to email messages.

## I cannot use a shortcut to view one type of message in a message list

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.

## I cannot send SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.
- Verify that fixed dialing is turned off.

## I am not receiving SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.
- Verify that your SIM card has enough available memory to store received SMS text messages.

## I cannot turn on cell broadcasting

Your SIM card might not support the display languages that you have selected for cell broadcast messages.

Clear the check box beside all languages that your SIM card does not support.

## I cannot attach a file to an MMS message

Try performing the following actions:

- Verify that the file is a .vcf (vCard®) file, an .ics (iCalendar) file, or a media file (for example, a .jpg, .gif, or .midi file).
- Verify that the file size does not exceed 300 KB.
- Verify that the file is not copyright protected.
- If MMS templates are available for your BlackBerry® device, use a blank template to compose your MMS message.

## Typing troubleshooting

### I cannot check spelling

You can only check spelling in English, French, German, Italian, and Spanish.

You can only check the spelling of text that you type.

## Attachment troubleshooting

### A skipped content bar appears in a document

More attachment content is available for you to download to your BlackBerry® device.

To download the content, click the skipped content bar. Click **More**.

### A message or attachment is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, click the trackwheel. Click **More** or **More All**.

### A question mark appears on a slide

A question mark appears on a slide if your BlackBerry® device has not downloaded the slide.

To view the slide, highlight the slide. Click the trackwheel. Click **Retrieve**.

## Synchronization troubleshooting

### Email messages are not reconciling over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless email reconciliation is turned on.
- Reconcile email messages manually. In a message list, click the trackwheel. Click **Reconcile Now**.

### I am not receiving email messages from personal folders on my computer

If your BlackBerry® device is associated with a Microsoft® Outlook® email account, you must use the synchronization tool of the BlackBerry Desktop Manager to reconcile email messages in personal folders. See the *BlackBerry Desktop Software Online Help* for more information.

## Email messages are not being deleted over the wireless network

Try performing the following actions:

- If you delete multiple email messages on your BlackBerry® device, highlight the email messages and press the **Backspace/Delete** key. If you delete multiple email messages using the Delete Prior menu item, the email messages are not deleted during wireless email reconciliation.
- In the email reconciliation options, verify that the **Delete On** field is set to **Mailbox & Handheld**.

## Organizer data is not synchronizing over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless data synchronization is turned on in the address book, calendar, task list, and memo list.

## Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

## Some characters in calendar entries do not appear correctly after synchronization

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. See the documentation for the operating system on your computer for more information.

## Browser troubleshooting

### No browser is available on my device

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your wireless service plan includes this service.

### I cannot set up automatic synchronization for bookmarks

When you add a bookmark, you can only set the Auto Synchronize and Start Time fields if content protection is turned off.

## Application troubleshooting

### I cannot add applications

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your device has enough memory to add the application.

### My device does not have enough available memory to upgrade the BlackBerry Device Software

Delete media files, display languages, or third-party applications that you do not use.

## Maps troubleshooting

### Diagonal lines appear on a map

Diagonal lines appear on a map when your BlackBerry® device loads a new map or when your device is not connected to the wireless network.

If diagonal lines appear for a long period of time, verify that your device is connected to the wireless network.

## Contact troubleshooting

### Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

## Calendar troubleshooting

### I cannot schedule appointments that span multiple days

If you use IBM® Lotus Notes®, you cannot schedule appointments that span multiple days.

### I cannot set some fields when scheduling appointments

If you use IBM® Lotus Notes®, you can only change the Subject, Location, Reminder, and Notes fields and the Mark as Private check box when you change a recurring appointment or meeting.

## Some characters in calendar entries do not appear correctly after synchronization

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. See the documentation for the operating system on your computer for more information.

## Bluetooth technology troubleshooting

### I cannot type a passkey on a Bluetooth enabled device

If the Bluetooth® enabled device that you are pairing with has no screen where you can type a passkey, the passkey might already be defined.

On your BlackBerry® device, in the **Enter passkey for <device name>** field, try typing **0000**.

### My list of paired Bluetooth enabled devices does not appear

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that you have added Bluetooth enabled devices to the paired Bluetooth enabled devices list.

### I cannot pair with a Bluetooth enabled device

Try performing the following actions:

- Verify that your BlackBerry® device is compatible with the Bluetooth® enabled device. See the documentation that came with the Bluetooth enabled device for more information.
- Turn off encryption for Bluetooth connections between your BlackBerry device and the Bluetooth enabled device. In the device options, click **Bluetooth**. Click a Bluetooth enabled device. Click **Device Properties**. Set the **Encryption** field to **Disabled**. Click the trackwheel. Click **Save**.

### I cannot share contacts with a paired Bluetooth enabled device

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that your BlackBerry® device is paired with the Bluetooth enabled device.
- Verify that, in the Bluetooth options, the **Address Book Transfer** field is set to **Enabled**.
- Verify that your BlackBerry device is connected to a Bluetooth enabled device that supports the Handsfree profile or the Object Push profile. See the documentation that came with the Bluetooth enabled device for more information about supported profiles.

## Date and time troubleshooting

### The time on my device is incorrect

Try performing the following actions:

- If you have traveled to a different time zone, set the **Time Zone** field to display the correct time zone.
- If you have set the **Date/Time Source** field to **Network**, try setting the **Date/Time Source** field to **BlackBerry**.

## Notification profile troubleshooting

### My device is vibrating more times than expected

For calls, the number of times that the BlackBerry® device vibrates is not determined by the number of vibrations that you set in your notification profile. The device vibrates until the caller or the wireless network ends the connection.

### I am not receiving notification for incoming calls or messages

Try performing the following actions:

- In the profile list, verify that the Off profile is turned off.
- In a notification profile exception, verify that the **Custom Phone Tune** field is not set to **Mute**.

### I cannot set some fields when creating a Calls From notification profile exception

If you assign a custom ring tone to a contact in the address book, a Calls From profile exception appears in the profile list. Because these exceptions are for calls only, you can only set the Custom Phone Tune field.

## Display troubleshooting

### My device screen turns off

When you do not use your BlackBerry® device for a period of time, the screen turns off to conserve battery power.

To turn on the screen, roll the trackwheel or press a key.

### My display changed

Depending on your theme, display options, such as your font and Home screen background, might change when you switch themes.

## Language troubleshooting

### Some characters do not appear correctly on my device

The BlackBerry® Enterprise Server or BlackBerry Internet Service that is associated with your BlackBerry device might not support the characters. For more information, contact your system administrator or your wireless service provider.

## Wireless network coverage troubleshooting

### I cannot connect to a wireless network

Try performing the following actions:

- Verify that your SIM card is inserted in your BlackBerry® device correctly.
- Verify that you have turned on the connection to the wireless network.
- Verify that you are connected to your wireless service provider's network. If you switched wireless networks manually, your device remains connected to that wireless network until you select your wireless service provider's network again.
- If you have specified a specific wireless network connection speed, verify that you are in a wireless coverage area that supports the connection speed.

### I cannot synchronize a certificate

Verify that the certificate synchronization tool of the BlackBerry® Desktop Manager is installed on your computer. If the certificate synchronization tool is not installed on your computer, re-install the BlackBerry Desktop Software. For more information about installing the BlackBerry Desktop Software, see the printed documentation that came with your BlackBerry device.

## Security troubleshooting

### I cannot unlock my device using my smart card

Try performing the following actions:

- Verify that the correct smart card is inserted in the smart card reader.
- Verify that the smart card is inserted in the smart card reader correctly.

### My device prompts me to make an emergency call when I type a password

If your BlackBerry® device password contains a combination of letters that corresponds to an emergency access number, your device might prompt you to make an emergency call when you type your device password.

To continue typing your device password, press the **Escape** key.



## Diagnostic reports

### About diagnostic reports

Diagnostic reports provide wireless configuration and connection information for your BlackBerry® device. If you cannot connect to the wireless network or access services such as email messaging, your wireless service provider or system administrator might ask you to run and submit a diagnostic report. Your wireless service provider or system administrator can use the report to help you troubleshoot the problem.

### Run a diagnostic report

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **Diagnostics Test**.
4. Click the trackwheel.
5. Click **Run**.

### View a diagnostic report

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **Diagnostics Test**.
4. Highlight a report.
5. Click the trackwheel.
6. Click **View Report**.

### Submit a diagnostic report

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **Diagnostics Test**.
4. Highlight a report.
5. Click the trackwheel.
6. Click **Email Report** or **PIN Report**.

### Delete a diagnostic report

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.

3. Click **Diagnostics Test**.
4. Highlight a report.
5. Click the trackwheel.
6. Click **Delete** or **Delete All**.

## Set a default recipient for diagnostic reports

If you set the default recipient, each time that you submit a diagnostic report, your BlackBerry® device sends the report to that recipient. If you want to specify a recipient each time that you submit a report, do not set the default recipient.

1. In the device options, click **Mobile Network**.
2. Click the trackwheel.
3. Click **Diagnostics Test**.
4. Click the trackwheel.
5. Click **Options**.
6. Type the contact information.
7. Click the trackwheel.
8. Click **Save**.

## View the version number of the BlackBerry Device Software on your device

In the device options, click **About**.

To return to the device options, press the **Escape** key twice.

## I cannot run or submit a diagnostic report

Try performing the following actions:

- Try running the diagnostic report again. In a diagnostic report, click the trackwheel. Click **Repeat All Steps**.
- If you cannot submit a diagnostic report to an email address, try submitting the report to a PIN. Likewise, if you cannot submit a diagnostic report to a PIN, try submitting the report to an email address.

## Abbreviation list

**ADN**

Abbreviated dialing number

**APN**

Access point name

**BCC**

Blind carbon copy

**CAP lock**

Capital letter lock

**CC**

Carbon copy

**FDN**

Fixed dialing number

**FIPS**

Federal Information Processing Standards

**GPS**

Global Positioning System

**HTML**

Hypertext Markup Language

**HTTP**

Hypertext Transfer Protocol

**IP:**

Internet Protocol

**LED**

Light-emitting diode

**MCC**

Mobile country code

**MDS**

Mobile Data Service

**MMS**

Multimedia Messaging Service

**MNC**

Mobile network code

**NUM lock**

Number lock

**PGP**

Pretty Good Privacy

**PIM**

Personal information management

**PIN**

Personal identification number

**SDN**

Service dialing number

**SIM**

Subscriber Identity Module

**S/MIME**

Secure Multipurpose Internet Mail Extensions

**SMS**

Short Message Service

**SMSC**

Short Message Service Center

**SSL**

Secure Sockets Layer

**TCP**

Transmission Control Protocol

**TLS**

Transport Layer Security

**Triple DES**

Triple Data Encryption Standard

**TTY**

Teletype

**USB**

Universal Serial Bus

**WAP**

Wireless Application Protocol

**WML**

Wireless Markup Language

**WTLS**

Wireless Transport Layer Security



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4,901,307	5,490,165	5,056,109	5,504,773	5,101,501
5,506,865	5,109,390	5,511,073	5,228,054	5,535,239
5,267,261	5,544,196	5,267,262	5,568,483	5,337,338
5,600,754	5,414,796	5,657,420	5,416,797	5,659,569
5,710,784	5,778,338			

BlackBerry® 8707 smartphone model number: RBD5xUW

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Slough, Berkshire SL1 3XE

United Kingdom

Published in Canada



# Character reference table

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
	0x8140	0101	締	0x92F7	3689	珞	0xE0E9	6475
、	0x8141	0102	艇	0x92F8	3690	瑕	0xE0EA	6476
。	0x8142	0103	訂	0x92F9	3691	瑋	0xE0EB	6477
、	0x8143	0104	諦	0x92FA	3692	瑟	0xE0EC	6478
、	0x8144	0105	蹄	0x92FB	3693	璫	0xE0ED	6479
、	0x8145	0106	通	0x92FC	3694	瑁	0xE0EE	6480
:	0x8146	0107	邸	0x9340	3701	瑜	0xE0EF	6481
:	0x8147	0108	鄭	0x9341	3702	瑩	0xE0F0	6482
?	0x8148	0109	釘	0x9342	3703	瑰	0xE0F1	6483
!	0x8149	0110	鼎	0x9343	3704	瑣	0xE0F2	6484
˘	0x814A	0111	泥	0x9344	3705	瑪	0xE0F3	6485
˚	0x814B	0112	摘	0x9345	3706	瑤	0xE0F4	6486
ˆ	0x814C	0113	擢	0x9346	3707	瑾	0xE0F5	6487
˘	0x814D	0114	敵	0x9347	3708	璋	0xE0F6	6488
˙	0x814E	0115	滴	0x9348	3709	璞	0xE0F7	6489
ˆ	0x814F	0116	的	0x9349	3710	璧	0xE0F8	6490
—	0x8150	0117	笛	0x934A	3711	瓊	0xE0F9	6491
—	0x8151	0118	適	0x934B	3712	瓏	0xE0FA	6492
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、	0x8153	0120	溺	0x934D	3714	琰	0xE0FC	6494
、	0x8154	0121	哲	0x934E	3715	瓠	0xE140	6501
、	0x8155	0122	徹	0x934F	3716	瓣	0xE141	6502
、	0x8156	0123	撤	0x9350	3717	阝	0xE142	6503
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—	0x815C	0129	天	0x9356	3723	甌	0xE148	6509
-	0x815D	0130	展	0x9357	3724	瓷	0xE149	6510
/	0x815E	0131	店	0x9358	3725	甄	0xE14A	6511
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…	0x8163	0136	転	0x935D	3730	甞	0xE14F	6516

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
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‘	0x8165	0138	点	0x935F	3732	甕	0xE151	6518
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”	0x8168	0141	澱	0x9362	3735	甕	0xE154	6521
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}	0x8170	0149	屠	0x936A	3743	畵	0xE15C	6529
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「	0x8175	0154	登	0x936F	3748	畵	0xE161	6534
」	0x8176	0155	菟	0x9370	3749	畵	0xE162	6535
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』	0x8178	0157	途	0x9372	3751	疆	0xE164	6537
【	0x8179	0158	都	0x9373	3752	疇	0xE165	6538
】	0x817A	0159	鍍	0x9374	3753	疇	0xE166	6539
+	0x817B	0160	砥	0x9375	3754	疊	0xE167	6540
-	0x817C	0161	砺	0x9376	3755	疊	0xE168	6541
±	0x817D	0162	努	0x9377	3756	疊	0xE169	6542
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≦	0x8185	0169	冬	0x937E	3763	疔	0xE170	6549
≧	0x8186	0170	凍	0x9380	3764	瘰	0xE171	6550
∞	0x8187	0171	刀	0x9381	3765	疵	0xE172	6551
∴	0x8188	0172	唐	0x9382	3766	疽	0xE173	6552
♂	0x8189	0173	塔	0x9383	3767	疽	0xE174	6553
♀	0x818A	0174	塘	0x9384	3768	疼	0xE175	6554
°	0x818B	0175	套	0x9385	3769	疱	0xE176	6555

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
'	0x818C	0176	宕	0x9386	3770	瘕	0xE177	6556
”	0x818D	0177	島	0x9387	3771	痊	0xE178	6557
°C	0x818E	0178	嶋	0x9388	3772	痒	0xE179	6558
¥	0x818F	0179	悼	0x9389	3773	瘿	0xE17A	6559
\$	0x8190	0180	投	0x938A	3774	痣	0xE17B	6560
¢	0x8191	0181	搭	0x938B	3775	痞	0xE17C	6561
£	0x8192	0182	東	0x938C	3776	痲	0xE17D	6562
%	0x8193	0183	桃	0x938D	3777	痿	0xE17E	6563
#	0x8194	0184	禱	0x938E	3778	痼	0xE180	6564
&	0x8195	0185	棟	0x938F	3779	痒	0xE181	6565
*	0x8196	0186	盜	0x9390	3780	痰	0xE182	6566
@	0x8197	0187	淘	0x9391	3781	痺	0xE183	6567
§	0x8198	0188	湯	0x9392	3782	麻	0xE184	6568
☆	0x8199	0189	涛	0x9393	3783	麻	0xE185	6569
★	0x819A	0190	灯	0x9394	3784	瘋	0xE186	6570
○	0x819B	0191	燈	0x9395	3785	瘍	0xE187	6571
●	0x819C	0192	当	0x9396	3786	癩	0xE188	6572
◎	0x819D	0193	痘	0x9397	3787	瘰	0xE189	6573
◇	0x819E	0194	禱	0x9398	3788	瘡	0xE18A	6574
◆	0x819F	0201	等	0x9399	3789	瘡	0xE18B	6575
□	0x81A0	0202	答	0x939A	3790	瘡	0xE18C	6576
■	0x81A1	0203	筒	0x939B	3791	癩	0xE18D	6577
△	0x81A2	0204	糖	0x939C	3792	瘤	0xE18E	6578
▲	0x81A3	0205	統	0x939D	3793	瘡	0xE18F	6579
▽	0x81A4	0206	到	0x939E	3794	瘰	0xE190	6580
▼	0x81A5	0207	董	0x939F	3801	瘰	0xE191	6581
※	0x81A6	0208	蕩	0x93A0	3802	癩	0xE192	6582
〒	0x81A7	0209	藤	0x93A1	3803	癩	0xE193	6583
→	0x81A8	0210	討	0x93A2	3804	癩	0xE194	6584
←	0x81A9	0211	膳	0x93A3	3805	癩	0xE195	6585
↑	0x81AA	0212	豆	0x93A4	3806	癩	0xE196	6586
↓	0x81AB	0213	踏	0x93A5	3807	癩	0xE197	6587
=	0x81AC	0214	逃	0x93A6	3808	癩	0xE198	6588
≡	0x81B8	0226	透	0x93A7	3809	癩	0xE199	6589
≡	0x81B9	0227	鎧	0x93A8	3810	癩	0xE19A	6590
≡	0x81BA	0228	陶	0x93A9	3811	癩	0xE19B	6591
≡	0x81BB	0229	頭	0x93AA	3812	癩	0xE19C	6592
⊂	0x81BC	0230	騰	0x93AB	3813	癩	0xE19D	6593
⊃	0x81BD	0231	鬪	0x93AC	3814	癩	0xE19E	6594

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
U	0x81BE	0232	働	0x93AD	3815	癩	0xE19F	6601
∩	0x81BF	0233	動	0x93AE	3816	夆	0xE1A0	6602
∧	0x81C8	0242	同	0x93AF	3817	癸	0xE1A1	6603
V	0x81C9	0243	堂	0x93B0	3818	發	0xE1A2	6604
∩	0x81CA	0244	導	0x93B1	3819	皂	0xE1A3	6605
⇒	0x81CB	0245	懂	0x93B2	3820	兒	0xE1A4	6606
⇄	0x81CC	0246	撞	0x93B3	3821	飯	0xE1A5	6607
∇	0x81CD	0247	洞	0x93B4	3822	皋	0xE1A6	6608
∃	0x81CE	0248	瞳	0x93B5	3823	皎	0xE1A7	6609
∟	0x81DA	0260	童	0x93B6	3824	皖	0xE1A8	6610
⊥	0x81DB	0261	胴	0x93B7	3825	皓	0xE1A9	6611
∩	0x81DC	0262	荀	0x93B8	3826	皙	0xE1AA	6612
∂	0x81DD	0263	道	0x93B9	3827	皚	0xE1AB	6613
∇	0x81DE	0264	銅	0x93BA	3828	炮	0xE1AC	6614
≡	0x81DF	0265	峠	0x93BB	3829	皴	0xE1AD	6615
≡	0x81E0	0266	鴉	0x93BC	3830	鞞	0xE1AE	6616
≪	0x81E1	0267	匿	0x93BD	3831	輝	0xE1AF	6617
≫	0x81E2	0268	得	0x93BE	3832	皴	0xE1B0	6618
√	0x81E3	0269	德	0x93BF	3833	孟	0xE1B1	6619
∞	0x81E4	0270	洩	0x93C0	3834	盍	0xE1B2	6620
∞	0x81E5	0271	特	0x93C1	3835	盍	0xE1B3	6621
∴	0x81E6	0272	督	0x93C2	3836	盒	0xE1B4	6622
∫	0x81E7	0273	禿	0x93C3	3837	盞	0xE1B5	6623
∫	0x81E8	0274	篤	0x93C4	3838	盞	0xE1B6	6624
∆	0x81F0	0282	毒	0x93C5	3839	盥	0xE1B7	6625
‰	0x81F1	0283	独	0x93C6	3840	盧	0xE1B8	6626
#	0x81F2	0284	読	0x93C7	3841	盪	0xE1B9	6627
b	0x81F3	0285	栢	0x93C8	3842	盪	0xE1BA	6628
♪	0x81F4	0286	橡	0x93C9	3843	盼	0xE1BB	6629
†	0x81F5	0287	凸	0x93CA	3844	眈	0xE1BC	6630
‡	0x81F6	0288	突	0x93CB	3845	眇	0xE1BD	6631
¶	0x81F7	0289	楸	0x93CC	3846	眇	0xE1BE	6632
○	0x81FC	0294	届	0x93CD	3847	眩	0xE1BF	6633
0	0x824F	0316	薦	0x93CE	3848	昵	0xE1C0	6634
1	0x8250	0317	苦	0x93CF	3849	眞	0xE1C1	6635
2	0x8251	0318	寅	0x93D0	3850	眚	0xE1C2	6636
3	0x8252	0319	酉	0x93D1	3851	眈	0xE1C3	6637
4	0x8253	0320	澣	0x93D2	3852	昧	0xE1C4	6638
5	0x8254	0321	嶼	0x93D3	3853	眷	0xE1C5	6639

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
6	0x8255	0322	屯	0x93D4	3854	眸	0xE1C6	6640
7	0x8256	0323	惇	0x93D5	3855	睇	0xE1C7	6641
8	0x8257	0324	敦	0x93D6	3856	睚	0xE1C8	6642
9	0x8258	0325	沌	0x93D7	3857	睨	0xE1C9	6643
A	0x8260	0333	豚	0x93D8	3858	睫	0xE1CA	6644
B	0x8261	0334	遁	0x93D9	3859	睛	0xE1CB	6645
C	0x8262	0335	頓	0x93DA	3860	睥	0xE1CC	6646
D	0x8263	0336	吞	0x93DB	3861	睿	0xE1CD	6647
E	0x8264	0337	曇	0x93DC	3862	瞢	0xE1CE	6648
F	0x8265	0338	鈍	0x93DD	3863	瞞	0xE1CF	6649
G	0x8266	0339	奈	0x93DE	3864	瞞	0xE1D0	6650
H	0x8267	0340	那	0x93DF	3865	瞞	0xE1D1	6651
I	0x8268	0341	内	0x93E0	3866	瞞	0xE1D2	6652
J	0x8269	0342	乍	0x93E1	3867	瞞	0xE1D3	6653
K	0x826A	0343	凧	0x93E2	3868	瞞	0xE1D4	6654
L	0x826B	0344	薙	0x93E3	3869	瞞	0xE1D5	6655
M	0x826C	0345	謎	0x93E4	3870	瞞	0xE1D6	6656
N	0x826D	0346	灘	0x93E5	3871	瞞	0xE1D7	6657
O	0x826E	0347	捺	0x93E6	3872	瞞	0xE1D8	6658
P	0x826F	0348	鍋	0x93E7	3873	瞞	0xE1D9	6659
Q	0x8270	0349	檣	0x93E8	3874	瞞	0xE1DA	6660
R	0x8271	0350	馴	0x93E9	3875	瞞	0xE1DB	6661
S	0x8272	0351	繩	0x93EA	3876	瞞	0xE1DC	6662
T	0x8273	0352	啜	0x93EB	3877	瞞	0xE1DD	6663
U	0x8274	0353	南	0x93EC	3878	瞞	0xE1DE	6664
V	0x8275	0354	楠	0x93ED	3879	瞞	0xE1DF	6665
W	0x8276	0355	軟	0x93EE	3880	矜	0xE1E0	6666
X	0x8277	0356	難	0x93EF	3881	矣	0xE1E1	6667
Y	0x8278	0357	汝	0x93F0	3882	矮	0xE1E2	6668
Z	0x8279	0358	二	0x93F1	3883	缸	0xE1E3	6669
a	0x8281	0365	尼	0x93F2	3884	砌	0xE1E4	6670
b	0x8282	0366	式	0x93F3	3885	砒	0xE1E5	6671
c	0x8283	0367	迹	0x93F4	3886	礮	0xE1E6	6672
d	0x8284	0368	勺	0x93F5	3887	砗	0xE1E7	6673
e	0x8285	0369	賑	0x93F6	3888	礪	0xE1E8	6674
f	0x8286	0370	肉	0x93F7	3889	砗	0xE1E9	6675
g	0x8287	0371	虹	0x93F8	3890	碎	0xE1EA	6676
h	0x8288	0372	廿	0x93F9	3891	砗	0xE1EB	6677
i	0x8289	0373	日	0x93FA	3892	礪	0xE1EC	6678

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
j	0x828A	0374	乳	0x93FB	3893	礪	0xE1ED	6679
k	0x828B	0375	入	0x93FC	3894	碓	0xE1EE	6680
l	0x828C	0376	如	0x9440	3901	碌	0xE1EF	6681
m	0x828D	0377	尿	0x9441	3902	碣	0xE1F0	6682
n	0x828E	0378	韭	0x9442	3903	碓	0xE1F1	6683
o	0x828F	0379	任	0x9443	3904	碓	0xE1F2	6684
p	0x8290	0380	妊	0x9444	3905	碓	0xE1F3	6685
q	0x8291	0381	忍	0x9445	3906	碓	0xE1F4	6686
r	0x8292	0382	認	0x9446	3907	碓	0xE1F5	6687
s	0x8293	0383	濡	0x9447	3908	碓	0xE1F6	6688
t	0x8294	0384	襦	0x9448	3909	碓	0xE1F7	6689
u	0x8295	0385	衤	0x9449	3910	礪	0xE1F8	6690
v	0x8296	0386	寧	0x944A	3911	礪	0xE1F9	6691
w	0x8297	0387	葱	0x944B	3912	磅	0xE1FA	6692
x	0x8298	0388	猫	0x944C	3913	磊	0xE1FB	6693
y	0x8299	0389	熱	0x944D	3914	磬	0xE1FC	6694
z	0x829A	0390	年	0x944E	3915	磧	0xE240	6701
あ	0x829F	0401	念	0x944F	3916	磚	0xE241	6702
あ	0x82A0	0402	捻	0x9450	3917	礪	0xE242	6703
い	0x82A1	0403	燃	0x9451	3918	礪	0xE243	6704
い	0x82A2	0404	燃	0x9452	3919	礪	0xE244	6705
う	0x82A3	0405	粘	0x9453	3920	礪	0xE245	6706
う	0x82A4	0406	乃	0x9454	3921	礪	0xE246	6707
え	0x82A5	0407	迺	0x9455	3922	礪	0xE247	6708
え	0x82A6	0408	之	0x9456	3923	礪	0xE248	6709
お	0x82A7	0409	埜	0x9457	3924	礪	0xE249	6710
お	0x82A8	0410	囊	0x9458	3925	祀	0xE24A	6711
か	0x82A9	0411	惱	0x9459	3926	祠	0xE24B	6712
が	0x82AA	0412	濃	0x945A	3927	祇	0xE24C	6713
き	0x82AB	0413	納	0x945B	3928	崇	0xE24D	6714
ぎ	0x82AC	0414	能	0x945C	3929	祚	0xE24E	6715
く	0x82AD	0415	腦	0x945D	3930	祕	0xE24F	6716
ぐ	0x82AE	0416	膿	0x945E	3931	祓	0xE250	6717
け	0x82AF	0417	農	0x945F	3932	祺	0xE251	6718
げ	0x82B0	0418	視	0x9460	3933	祿	0xE252	6719
こ	0x82B1	0419	蚤	0x9461	3934	禊	0xE253	6720
こ	0x82B2	0420	巴	0x9462	3935	禊	0xE254	6721
さ	0x82B3	0421	把	0x9463	3936	禱	0xE255	6722
ざ	0x82B4	0422	播	0x9464	3937	齋	0xE256	6723

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
し	0x82B5	0423	覇	0x9465	3938	禪	0xE257	6724
じ	0x82B6	0424	杷	0x9466	3939	禮	0xE258	6725
す	0x82B7	0425	波	0x9467	3940	禳	0xE259	6726
ず	0x82B8	0426	派	0x9468	3941	禹	0xE25A	6727
せ	0x82B9	0427	琶	0x9469	3942	禺	0xE25B	6728
ぜ	0x82BA	0428	破	0x946A	3943	秉	0xE25C	6729
そ	0x82BB	0429	婆	0x946B	3944	秕	0xE25D	6730
ぞ	0x82BC	0430	罵	0x946C	3945	秧	0xE25E	6731
た	0x82BD	0431	芭	0x946D	3946	秬	0xE25F	6732
だ	0x82BE	0432	馬	0x946E	3947	秣	0xE260	6733
ち	0x82BF	0433	俳	0x946F	3948	秣	0xE261	6734
ぢ	0x82C0	0434	糜	0x9470	3949	稈	0xE262	6735
っ	0x82C1	0435	拝	0x9471	3950	稍	0xE263	6736
つ	0x82C2	0436	排	0x9472	3951	稭	0xE264	6737
づ	0x82C3	0437	敗	0x9473	3952	種	0xE265	6738
て	0x82C4	0438	杯	0x9474	3953	稠	0xE266	6739
で	0x82C5	0439	盃	0x9475	3954	稟	0xE267	6740
と	0x82C6	0440	牌	0x9476	3955	稟	0xE268	6741
ど	0x82C7	0441	背	0x9477	3956	稱	0xE269	6742
な	0x82C8	0442	肺	0x9478	3957	稻	0xE26A	6743
に	0x82C9	0443	輩	0x9479	3958	稟	0xE26B	6744
ぬ	0x82CA	0444	配	0x947A	3959	稷	0xE26C	6745
ね	0x82CB	0445	倍	0x947B	3960	稭	0xE26D	6746
の	0x82CC	0446	培	0x947C	3961	穗	0xE26E	6747
は	0x82CD	0447	媒	0x947D	3962	穉	0xE26F	6748
ば	0x82CE	0448	梅	0x947E	3963	穉	0xE270	6749
ぱ	0x82CF	0449	煤	0x9480	3964	穢	0xE271	6750
ひ	0x82D0	0450	煤	0x9481	3965	穢	0xE272	6751
び	0x82D1	0451	狽	0x9482	3966	穢	0xE273	6752
ぴ	0x82D2	0452	買	0x9483	3967	穢	0xE274	6753
ふ	0x82D3	0453	売	0x9484	3968	穹	0xE275	6754
ぶ	0x82D4	0454	賠	0x9485	3969	穿	0xE276	6755
ぷ	0x82D5	0455	陪	0x9486	3970	窃	0xE277	6756
へ	0x82D6	0456	這	0x9487	3971	窗	0xE278	6757
べ	0x82D7	0457	蠅	0x9488	3972	窳	0xE279	6758
べ	0x82D8	0458	秤	0x9489	3973	窳	0xE27A	6759
ほ	0x82D9	0459	矧	0x948A	3974	窳	0xE27B	6760
ぼ	0x82DA	0460	菽	0x948B	3975	窩	0xE27C	6761
ぼ	0x82DB	0461	伯	0x948C	3976	窳	0xE27D	6762

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
ま	0x82DC	0462	剥	0x948D	3977	窰	0xE27E	6763
み	0x82DD	0463	博	0x948E	3978	窶	0xE280	6764
む	0x82DE	0464	拍	0x948F	3979	窳	0xE281	6765
め	0x82DF	0465	柏	0x9490	3980	窴	0xE282	6766
も	0x82E0	0466	泊	0x9491	3981	隆	0xE283	6767
や	0x82E1	0467	白	0x9492	3982	邃	0xE284	6768
や	0x82E2	0468	箔	0x9493	3983	竇	0xE285	6769
ゆ	0x82E3	0469	粕	0x9494	3984	竊	0xE286	6770
ゆ	0x82E4	0470	舶	0x9495	3985	竝	0xE287	6771
よ	0x82E5	0471	薄	0x9496	3986	竝	0xE288	6772
よ	0x82E6	0472	迫	0x9497	3987	蚡	0xE289	6773
ら	0x82E7	0473	曝	0x9498	3988	蚝	0xE28A	6774
り	0x82E8	0474	漠	0x9499	3989	站	0xE28B	6775
る	0x82E9	0475	爆	0x949A	3990	竝	0xE28C	6776
れ	0x82EA	0476	縛	0x949B	3991	竝	0xE28D	6777
ろ	0x82EB	0477	莫	0x949C	3992	站	0xE28E	6778
わ	0x82EC	0478	駁	0x949D	3993	婣	0xE28F	6779
わ	0x82ED	0479	麦	0x949E	3994	竝	0xE290	6780
ゐ	0x82EE	0480	函	0x949F	4001	謁	0xE291	6781
ゑ	0x82EF	0481	箱	0x94A0	4002	蛭	0xE292	6782
を	0x82F0	0482	碓	0x94A1	4003	筑	0xE293	6783
ん	0x82F1	0483	箬	0x94A2	4004	笏	0xE294	6784
ァ	0x8340	0501	肇	0x94A3	4005	箬	0xE295	6785
ア	0x8341	0502	箬	0x94A4	4006	箬	0xE296	6786
ィ	0x8342	0503	櫛	0x94A5	4007	箬	0xE297	6787
イ	0x8343	0504	幡	0x94A6	4008	箬	0xE298	6788
ウ	0x8344	0505	肌	0x94A7	4009	箬	0xE299	6789
ウ	0x8345	0506	畑	0x94A8	4010	箬	0xE29A	6790
エ	0x8346	0507	畠	0x94A9	4011	箬	0xE29B	6791
エ	0x8347	0508	八	0x94AA	4012	笨	0xE29C	6792
オ	0x8348	0509	鉢	0x94AB	4013	笑	0xE29D	6793
オ	0x8349	0510	澆	0x94AC	4014	筐	0xE29E	6794
カ	0x834A	0511	癸	0x94AD	4015	筐	0xE29F	6801
ガ	0x834B	0512	醜	0x94AE	4016	筭	0xE2A0	6802
キ	0x834C	0513	髮	0x94AF	4017	筭	0xE2A1	6803
ギ	0x834D	0514	伐	0x94B0	4018	筭	0xE2A2	6804
ク	0x834E	0515	罰	0x94B1	4019	筭	0xE2A3	6805
グ	0x834F	0516	拔	0x94B2	4020	筭	0xE2A4	6806
ケ	0x8350	0517	筏	0x94B3	4021	筭	0xE2A5	6807



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
ゲ	0x8351	0518	闊	0x94B4	4022	筥	0xE2A6	6808
コ	0x8352	0519	鳩	0x94B5	4023	筭	0xE2A7	6809
ゴ	0x8353	0520	嘶	0x94B6	4024	筭	0xE2A8	6810
サ	0x8354	0521	塙	0x94B7	4025	笮	0xE2A9	6811
ザ	0x8355	0522	蛤	0x94B8	4026	筱	0xE2AA	6812
シ	0x8356	0523	隼	0x94B9	4027	箴	0xE2AB	6813
ジ	0x8357	0524	伴	0x94BA	4028	筮	0xE2AC	6814
ス	0x8358	0525	判	0x94BB	4029	箝	0xE2AD	6815
ズ	0x8359	0526	半	0x94BC	4030	箇	0xE2AE	6816
セ	0x835A	0527	反	0x94BD	4031	篋	0xE2AF	6817
ゼ	0x835B	0528	叛	0x94BE	4032	籜	0xE2B0	6818
ソ	0x835C	0529	帆	0x94BF	4033	箆	0xE2B1	6819
ゾ	0x835D	0530	搬	0x94C0	4034	筍	0xE2B2	6820
タ	0x835E	0531	斑	0x94C1	4035	篋	0xE2B3	6821
ダ	0x835F	0532	板	0x94C2	4036	箒	0xE2B4	6822
チ	0x8360	0533	汜	0x94C3	4037	箏	0xE2B5	6823
チ	0x8361	0534	汎	0x94C4	4038	箏	0xE2B6	6824
ッ	0x8362	0535	版	0x94C5	4039	箆	0xE2B7	6825
ツ	0x8363	0536	犯	0x94C6	4040	篋	0xE2B8	6826
ヅ	0x8364	0537	班	0x94C7	4041	篋	0xE2B9	6827
テ	0x8365	0538	畔	0x94C8	4042	篋	0xE2BA	6828
デ	0x8366	0539	繁	0x94C9	4043	篋	0xE2BB	6829
ト	0x8367	0540	般	0x94CA	4044	箴	0xE2BC	6830
ド	0x8368	0541	藩	0x94CB	4045	箴	0xE2BD	6831
ナ	0x8369	0542	販	0x94CC	4046	箒	0xE2BE	6832
ニ	0x836A	0543	範	0x94CD	4047	篩	0xE2BF	6833
ヌ	0x836B	0544	采	0x94CE	4048	篋	0xE2C0	6834
ネ	0x836C	0545	煩	0x94CF	4049	篋	0xE2C1	6835
ノ	0x836D	0546	頒	0x94D0	4050	篋	0xE2C2	6836
ハ	0x836E	0547	飯	0x94D1	4051	篋	0xE2C3	6837
バ	0x836F	0548	挽	0x94D2	4052	籠	0xE2C4	6838
パ	0x8370	0549	晩	0x94D3	4053	篋	0xE2C5	6839
ヒ	0x8371	0550	番	0x94D4	4054	篋	0xE2C6	6840
ビ	0x8372	0551	盤	0x94D5	4055	篋	0xE2C7	6841
ピ	0x8373	0552	磐	0x94D6	4056	篋	0xE2C8	6842
フ	0x8374	0553	蕃	0x94D7	4057	篷	0xE2C9	6843
ブ	0x8375	0554	蝨	0x94D8	4058	篋	0xE2CA	6844
プ	0x8376	0555	匪	0x94D9	4059	篋	0xE2CB	6845
ヘ	0x8377	0556	卑	0x94DA	4060	篋	0xE2CC	6846

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
べ	0x8378	0557	否	0x94DB	4061	篲	0xE2CD	6847
べ	0x8379	0558	妃	0x94DC	4062	篲	0xE2CE	6848
ホ	0x837A	0559	庇	0x94DD	4063	簪	0xE2CF	6849
ボ	0x837B	0560	彼	0x94DE	4064	簞	0xE2D0	6850
ポ	0x837C	0561	悲	0x94DF	4065	簷	0xE2D1	6851
マ	0x837D	0562	扉	0x94E0	4066	簫	0xE2D2	6852
ミ	0x837E	0563	批	0x94E1	4067	簽	0xE2D3	6853
ム	0x8380	0564	披	0x94E2	4068	籌	0xE2D4	6854
メ	0x8381	0565	斐	0x94E3	4069	籃	0xE2D5	6855
モ	0x8382	0566	比	0x94E4	4070	籩	0xE2D6	6856
ヤ	0x8383	0567	泌	0x94E5	4071	旗	0xE2D7	6857
ヤ	0x8384	0568	疲	0x94E6	4072	籜	0xE2D8	6858
ユ	0x8385	0569	皮	0x94E7	4073	籐	0xE2D9	6859
ユ	0x8386	0570	碑	0x94E8	4074	籐	0xE2DA	6860
ヨ	0x8387	0571	秘	0x94E9	4075	籟	0xE2DB	6861
ヨ	0x8388	0572	緋	0x94EA	4076	籟	0xE2DC	6862
ラ	0x8389	0573	罷	0x94EB	4077	籟	0xE2DD	6863
リ	0x838A	0574	肥	0x94EC	4078	籟	0xE2DE	6864
ル	0x838B	0575	被	0x94ED	4079	籟	0xE2DF	6865
レ	0x838C	0576	誹	0x94EE	4080	糝	0xE2E0	6866
ロ	0x838D	0577	費	0x94EF	4081	糝	0xE2E1	6867
ワ	0x838E	0578	避	0x94F0	4082	粍	0xE2E2	6868
ワ	0x838F	0579	非	0x94F1	4083	粍	0xE2E3	6869
キ	0x8390	0580	飛	0x94F2	4084	粍	0xE2E4	6870
エ	0x8391	0581	樋	0x94F3	4085	粍	0xE2E5	6871
ヲ	0x8392	0582	籟	0x94F4	4086	糝	0xE2E6	6872
ン	0x8393	0583	備	0x94F5	4087	糝	0xE2E7	6873
ヴ	0x8394	0584	尾	0x94F6	4088	糝	0xE2E8	6874
カ	0x8395	0585	微	0x94F7	4089	粍	0xE2E9	6875
ケ	0x8396	0586	枇	0x94F8	4090	粍	0xE2EA	6876
A	0x839F	0601	毘	0x94F9	4091	梁	0xE2EB	6877
B	0x83A0	0602	琵琶	0x94FA	4092	粮	0xE2EC	6878
Γ	0x83A1	0603	眉	0x94FB	4093	粹	0xE2ED	6879
Δ	0x83A2	0604	美	0x94FC	4094	粽	0xE2EE	6880
E	0x83A3	0605	鼻	0x9540	4101	糝	0xE2EF	6881
Z	0x83A4	0606	柎	0x9541	4102	糝	0xE2F0	6882
H	0x83A5	0607	稗	0x9542	4103	糝	0xE2F1	6883
Θ	0x83A6	0608	匹	0x9543	4104	糝	0xE2F2	6884
I	0x83A7	0609	疋	0x9544	4105	糝	0xE2F3	6885

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
K	0x83A8	0610	髭	0x9545	4106	糜	0xE2F4	6886
Λ	0x83A9	0611	彦	0x9546	4107	糲	0xE2F5	6887
M	0x83AA	0612	膝	0x9547	4108	鬻	0xE2F6	6888
N	0x83AB	0613	菱	0x9548	4109	糯	0xE2F7	6889
Ξ	0x83AC	0614	肘	0x9549	4110	糲	0xE2F8	6890
O	0x83AD	0615	粥	0x954A	4111	糲	0xE2F9	6891
Π	0x83AE	0616	必	0x954B	4112	糲	0xE2FA	6892
P	0x83AF	0617	畢	0x954C	4113	糲	0xE2FB	6893
Σ	0x83B0	0618	筆	0x954D	4114	紆	0xE2FC	6894
T	0x83B1	0619	逼	0x954E	4115	紆	0xE340	6901
Υ	0x83B2	0620	桧	0x954F	4116	紆	0xE341	6902
Φ	0x83B3	0621	姬	0x9550	4117	紆	0xE342	6903
X	0x83B4	0622	媛	0x9551	4118	紆	0xE343	6904
Ψ	0x83B5	0623	紐	0x9552	4119	綱	0xE344	6905
Ω	0x83B6	0624	百	0x9553	4120	紆	0xE345	6906
α	0x83BF	0633	謬	0x9554	4121	紆	0xE346	6907
β	0x83C0	0634	俵	0x9555	4122	紆	0xE347	6908
γ	0x83C1	0635	彪	0x9556	4123	紆	0xE348	6909
δ	0x83C2	0636	標	0x9557	4124	紆	0xE349	6910
ε	0x83C3	0637	氷	0x9558	4125	絆	0xE34A	6911
ζ	0x83C4	0638	漂	0x9559	4126	絆	0xE34B	6912
η	0x83C5	0639	瓢	0x955A	4127	紆	0xE34C	6913
θ	0x83C6	0640	票	0x955B	4128	紆	0xE34D	6914
ι	0x83C7	0641	表	0x955C	4129	絲	0xE34E	6915
κ	0x83C8	0642	評	0x955D	4130	絨	0xE34F	6916
λ	0x83C9	0643	豹	0x955E	4131	絮	0xE350	6917
μ	0x83CA	0644	廟	0x955F	4132	紆	0xE351	6918
ν	0x83CB	0645	描	0x9560	4133	紆	0xE352	6919
ξ	0x83CC	0646	病	0x9561	4134	經	0xE353	6920
ο	0x83CD	0647	秒	0x9562	4135	綉	0xE354	6921
π	0x83CE	0648	苗	0x9563	4136	條	0xE355	6922
ρ	0x83CF	0649	錨	0x9564	4137	綉	0xE356	6923
σ	0x83D0	0650	鋌	0x9565	4138	綉	0xE357	6924
τ	0x83D1	0651	蒜	0x9566	4139	綉	0xE358	6925
υ	0x83D2	0652	蛭	0x9567	4140	綺	0xE359	6926
φ	0x83D3	0653	鱈	0x9568	4141	綉	0xE35A	6927
χ	0x83D4	0654	品	0x9569	4142	綉	0xE35B	6928
ψ	0x83D5	0655	彬	0x956A	4143	綉	0xE35C	6929
ω	0x83D6	0656	斌	0x956B	4144	緇	0xE35D	6930

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
A	0x8440	0701	浜	0x956C	4145	綽	0xE35E	6931
Б	0x8441	0702	瀕	0x956D	4146	綫	0xE35F	6932
B	0x8442	0703	貧	0x956E	4147	總	0xE360	6933
Г	0x8443	0704	寶	0x956F	4148	綱	0xE361	6934
Д	0x8444	0705	頻	0x9570	4149	絢	0xE362	6935
E	0x8445	0706	敏	0x9571	4150	縣	0xE363	6936
Ё	0x8446	0707	瓶	0x9572	4151	綸	0xE364	6937
Ж	0x8447	0708	不	0x9573	4152	緝	0xE365	6938
З	0x8448	0709	付	0x9574	4153	縮	0xE366	6939
И	0x8449	0710	埠	0x9575	4154	絨	0xE367	6940
Й	0x844A	0711	夫	0x9576	4155	緝	0xE368	6941
К	0x844B	0712	婦	0x9577	4156	縹	0xE369	6942
Л	0x844C	0713	富	0x9578	4157	緞	0xE36A	6943
М	0x844D	0714	富	0x9579	4158	緻	0xE36B	6944
Н	0x844E	0715	布	0x957A	4159	縵	0xE36C	6945
О	0x844F	0716	府	0x957B	4160	縉	0xE36D	6946
П	0x8450	0717	怖	0x957C	4161	絨	0xE36E	6947
Р	0x8451	0718	扶	0x957D	4162	縵	0xE36F	6948
С	0x8452	0719	敷	0x957E	4163	縣	0xE370	6949
Т	0x8453	0720	斧	0x9580	4164	緯	0xE371	6950
У	0x8454	0721	普	0x9581	4165	縵	0xE372	6951
Ф	0x8455	0722	浮	0x9582	4166	縱	0xE373	6952
Х	0x8456	0723	父	0x9583	4167	縹	0xE374	6953
Ц	0x8457	0724	符	0x9584	4168	縹	0xE375	6954
Ч	0x8458	0725	腐	0x9585	4169	縹	0xE376	6955
Ш	0x8459	0726	膚	0x9586	4170	縹	0xE377	6956
Щ	0x845A	0727	芙	0x9587	4171	縹	0xE378	6957
Ъ	0x845B	0728	譜	0x9588	4172	縹	0xE379	6958
Ы	0x845C	0729	負	0x9589	4173	縹	0xE37A	6959
Ь	0x845D	0730	賦	0x958A	4174	縹	0xE37B	6960
Э	0x845E	0731	赴	0x958B	4175	縹	0xE37C	6961
Ю	0x845F	0732	阜	0x958C	4176	縹	0xE37D	6962
Я	0x8460	0733	附	0x958D	4177	縹	0xE37E	6963
a	0x8470	0749	侮	0x958E	4178	縹	0xE380	6964
б	0x8471	0750	撫	0x958F	4179	縹	0xE381	6965
в	0x8472	0751	武	0x9590	4180	縹	0xE382	6966
г	0x8473	0752	舞	0x9591	4181	縹	0xE383	6967
д	0x8474	0753	葡	0x9592	4182	縹	0xE384	6968
e	0x8475	0754	蕪	0x9593	4183	縹	0xE385	6969

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
ё	0x8476	0755	部	0x9594	4184	繙	0xE386	6970
ж	0x8477	0756	封	0x9595	4185	繚	0xE387	6971
з	0x8478	0757	楓	0x9596	4186	繹	0xE388	6972
и	0x8479	0758	風	0x9597	4187	繪	0xE389	6973
й	0x847A	0759	葺	0x9598	4188	繩	0xE38A	6974
к	0x847B	0760	落	0x9599	4189	繼	0xE38B	6975
л	0x847C	0761	伏	0x959A	4190	繻	0xE38C	6976
м	0x847D	0762	副	0x959B	4191	績	0xE38D	6977
н	0x847E	0763	復	0x959C	4192	績	0xE38E	6978
о	0x8480	0764	幅	0x959D	4193	績	0xE38F	6979
п	0x8481	0765	服	0x959E	4194	辦	0xE390	6980
р	0x8482	0766	福	0x959F	4201	繼	0xE391	6981
с	0x8483	0767	腹	0x95A0	4202	績	0xE392	6982
т	0x8484	0768	複	0x95A1	4203	績	0xE393	6983
у	0x8485	0769	覆	0x95A2	4204	績	0xE394	6984
ф	0x8486	0770	淵	0x95A3	4205	纏	0xE395	6985
х	0x8487	0771	弗	0x95A4	4206	績	0xE396	6986
ц	0x8488	0772	払	0x95A5	4207	纓	0xE397	6987
ч	0x8489	0773	沸	0x95A6	4208	纏	0xE398	6988
ш	0x848A	0774	仏	0x95A7	4209	織	0xE399	6989
щ	0x848B	0775	物	0x95A8	4210	織	0xE39A	6990
ъ	0x848C	0776	鮒	0x95A9	4211	熏	0xE39B	6991
ы	0x848D	0777	分	0x95AA	4212	纜	0xE39C	6992
ь	0x848E	0778	吻	0x95AB	4213	缸	0xE39D	6993
э	0x848F	0779	噴	0x95AC	4214	缺	0xE39E	6994
ю	0x8490	0780	墳	0x95AD	4215	罇	0xE39F	7001
я	0x8491	0781	憤	0x95AE	4216	罍	0xE3A0	7002
—	0x849F	0801	扮	0x95AF	4217	罍	0xE3A1	7003
	0x84A0	0802	焚	0x95B0	4218	罍	0xE3A2	7004
Г	0x84A1	0803	奮	0x95B1	4219	罐	0xE3A3	7005
Г	0x84A2	0804	粉	0x95B2	4220	网	0xE3A4	7006
Г	0x84A3	0805	糞	0x95B3	4221	罕	0xE3A5	7007
Г	0x84A4	0806	紛	0x95B4	4222	罍	0xE3A6	7008
Г	0x84A5	0807	霽	0x95B5	4223	罍	0xE3A7	7009
Г	0x84A6	0808	文	0x95B6	4224	罍	0xE3A8	7010
Г	0x84A7	0809	聞	0x95B7	4225	罍	0xE3A9	7011
Г	0x84A8	0810	丙	0x95B8	4226	罍	0xE3AA	7012
Г	0x84A9	0811	併	0x95B9	4227	罍	0xE3AB	7013
Г	0x84AA	0812	兵	0x95BA	4228	罍	0xE3AC	7014

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
𠄎	0x84AB	0813	𠄎	0x95BB	4229	𠄎	0xE3AD	7015
𠄏	0x84AC	0814	𠄏	0x95BC	4230	𠄏	0xE3AE	7016
𠄐	0x84AD	0815	𠄐	0x95BD	4231	𠄐	0xE3AF	7017
𠄑	0x84AE	0816	𠄑	0x95BE	4232	𠄑	0xE3B0	7018
𠄒	0x84AF	0817	𠄒	0x95BF	4233	𠄒	0xE3B1	7019
𠄓	0x84B0	0818	𠄓	0x95C0	4234	𠄓	0xE3B2	7020
𠄔	0x84B1	0819	𠄔	0x95C1	4235	𠄔	0xE3B3	7021
𠄕	0x84B2	0820	𠄕	0x95C2	4236	𠄕	0xE3B4	7022
𠄖	0x84B3	0821	𠄖	0x95C3	4237	𠄖	0xE3B5	7023
𠄗	0x84B4	0822	𠄗	0x95C4	4238	𠄗	0xE3B6	7024
𠄘	0x84B5	0823	𠄘	0x95C5	4239	𠄘	0xE3B7	7025
𠄙	0x84B6	0824	𠄙	0x95C6	4240	𠄙	0xE3B8	7026
𠄚	0x84B7	0825	𠄚	0x95C7	4241	𠄚	0xE3B9	7027
𠄛	0x84B8	0826	𠄛	0x95C8	4242	𠄛	0xE3BA	7028
𠄜	0x84B9	0827	𠄜	0x95C9	4243	𠄜	0xE3BB	7029
𠄝	0x84BA	0828	𠄝	0x95CA	4244	𠄝	0xE3BC	7030
𠄞	0x84BB	0829	𠄞	0x95CB	4245	𠄞	0xE3BD	7031
𠄟	0x84BC	0830	𠄟	0x95CC	4246	𠄟	0xE3BE	7032
𠄠	0x84BD	0831	𠄠	0x95CD	4247	𠄠	0xE3BF	7033
𠄡	0x84BE	0832	𠄡	0x95CE	4248	𠄡	0xE3C0	7034
①	0x8740	1301	𠄢	0x95CF	4249	𠄢	0xE3C1	7035
②	0x8741	1302	𠄣	0x95D0	4250	𠄣	0xE3C2	7036
③	0x8742	1303	𠄤	0x95D1	4251	𠄤	0xE3C3	7037
④	0x8743	1304	𠄥	0x95D2	4252	𠄥	0xE3C4	7038
⑤	0x8744	1305	𠄦	0x95D3	4253	𠄦	0xE3C5	7039
⑥	0x8745	1306	𠄧	0x95D4	4254	𠄧	0xE3C6	7040
⑦	0x8746	1307	𠄨	0x95D5	4255	𠄨	0xE3C7	7041
⑧	0x8747	1308	𠄩	0x95D6	4256	𠄩	0xE3C8	7042
⑨	0x8748	1309	𠄪	0x95D7	4257	𠄪	0xE3C9	7043
⑩	0x8749	1310	𠄫	0x95D8	4258	𠄫	0xE3CA	7044
⑪	0x874A	1311	𠄬	0x95D9	4259	𠄬	0xE3CB	7045
⑫	0x874B	1312	𠄭	0x95DA	4260	𠄭	0xE3CC	7046
⑬	0x874C	1313	𠄮	0x95DB	4261	𠄮	0xE3CD	7047
⑭	0x874D	1314	𠄯	0x95DC	4262	𠄯	0xE3CE	7048
⑮	0x874E	1315	𠄰	0x95DD	4263	𠄰	0xE3CF	7049
⑯	0x874F	1316	𠄱	0x95DE	4264	𠄱	0xE3D0	7050
⑰	0x8750	1317	𠄲	0x95DF	4265	𠄲	0xE3D1	7051
⑱	0x8751	1318	𠄳	0x95E0	4266	𠄳	0xE3D2	7052
⑲	0x8752	1319	𠄴	0x95E1	4267	𠄴	0xE3D3	7053

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
㊦	0x8753	1320	補	0x95E2	4268	耿	0xE3D4	7054
I	0x8754	1321	輔	0x95E3	4269	耻	0xE3D5	7055
II	0x8755	1322	穂	0x95E4	4270	聊	0xE3D6	7056
III	0x8756	1323	募	0x95E5	4271	聆	0xE3D7	7057
IV	0x8757	1324	墓	0x95E6	4272	聒	0xE3D8	7058
V	0x8758	1325	慕	0x95E7	4273	聘	0xE3D9	7059
VI	0x8759	1326	戊	0x95E8	4274	聚	0xE3DA	7060
VII	0x875A	1327	暮	0x95E9	4275	聳	0xE3DB	7061
VIII	0x875B	1328	母	0x95EA	4276	聒	0xE3DC	7062
IX	0x875C	1329	簿	0x95EB	4277	聯	0xE3DD	7063
X	0x875D	1330	菩	0x95EC	4278	聳	0xE3DE	7064
ミリ	0x875F	1332	倣	0x95ED	4279	聳	0xE3DF	7065
キロ	0x8760	1333	俸	0x95EE	4280	聰	0xE3E0	7066
ギン	0x8761	1334	包	0x95EF	4281	聳	0xE3E1	7067
キル	0x8762	1335	呆	0x95F0	4282	瞠	0xE3E2	7068
ギョ	0x8763	1336	報	0x95F1	4283	聽	0xE3E3	7069
トン	0x8764	1337	奉	0x95F2	4284	聿	0xE3E4	7070
ル	0x8765	1338	宝	0x95F3	4285	肄	0xE3E5	7071
ギョ	0x8766	1339	峰	0x95F4	4286	肆	0xE3E6	7072
ギル	0x8767	1340	峯	0x95F5	4287	肅	0xE3E7	7073
フツ	0x8768	1341	崩	0x95F6	4288	肛	0xE3E8	7074
カロ	0x8769	1342	庖	0x95F7	4289	育	0xE3E9	7075
ドル	0x876A	1343	抱	0x95F8	4290	肚	0xE3EA	7076
ギン	0x876B	1344	捧	0x95F9	4291	臍	0xE3EB	7077
ギョ	0x876C	1345	放	0x95FA	4292	胃	0xE3EC	7078
ギル	0x876D	1346	方	0x95FB	4293	肱	0xE3ED	7079
ギン	0x876E	1347	朋	0x95FC	4294	胛	0xE3EE	7080
mm	0x876F	1348	法	0x9640	4301	胥	0xE3EF	7081
cm	0x8770	1349	泡	0x9641	4302	胙	0xE3F0	7082
km	0x8771	1350	烹	0x9642	4303	胙	0xE3F1	7083
mg	0x8772	1351	砲	0x9643	4304	胙	0xE3F2	7084
kg	0x8773	1352	縫	0x9644	4305	胙	0xE3F3	7085
cc	0x8774	1353	胞	0x9645	4306	胙	0xE3F4	7086
m <sup>2</sup>	0x8775	1354	芳	0x9646	4307	脉	0xE3F5	7087
韃	0x877E	1363	萌	0x9647	4308	胙	0xE3F6	7088
”	0x8780	1364	蓬	0x9648	4309	胙	0xE3F7	7089
”	0x8781	1365	蜂	0x9649	4310	脛	0xE3F8	7090
No.	0x8782	1366	褒	0x964A	4311	脛	0xE3F9	7091
KK	0x8783	1367	訪	0x964B	4312	脛	0xE3FA	7092

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
𧯛	0x8784	1368	豐	0x964C	4313	脯	0xE3FB	7093
𧯜	0x8785	1369	邦	0x964D	4314	腋	0xE3FC	7094
𧯝	0x8786	1370	鋒	0x964E	4315	隋	0xE440	7101
𧯞	0x8787	1371	飽	0x964F	4316	腴	0xE441	7102
𧯟	0x8788	1372	鳳	0x9650	4317	脾	0xE442	7103
𧯠	0x8789	1373	鵬	0x9651	4318	腓	0xE443	7104
𧯡	0x878A	1374	乏	0x9652	4319	腑	0xE444	7105
𧯢	0x878B	1375	亡	0x9653	4320	胼	0xE445	7106
𧯣	0x878C	1376	傍	0x9654	4321	臄	0xE446	7107
𧯤	0x878D	1377	剖	0x9655	4322	臍	0xE447	7108
𧯥	0x878E	1378	坊	0x9656	4323	脛	0xE448	7109
𧯦	0x878F	1379	妨	0x9657	4324	腦	0xE449	7110
𧯧	0x8790	1380	帽	0x9658	4325	腴	0xE44A	7111
𧯨	0x8791	1381	忘	0x9659	4326	膾	0xE44B	7112
𧯩	0x8792	1382	忙	0x965A	4327	膈	0xE44C	7113
𧯪	0x8793	1383	房	0x965B	4328	膊	0xE44D	7114
𧯫	0x8794	1384	暴	0x965C	4329	膀	0xE44E	7115
𧯬	0x8795	1385	望	0x965D	4330	膏	0xE44F	7116
𧯭	0x8796	1386	某	0x965E	4331	膠	0xE450	7117
𧯮	0x8797	1387	棒	0x965F	4332	臃	0xE451	7118
𧯯	0x8798	1388	冒	0x9660	4333	膾	0xE452	7119
𧯰	0x8799	1389	紡	0x9661	4334	腔	0xE453	7120
𧯱	0x879A	1390	肪	0x9662	4335	腔	0xE454	7121
𧯲	0x879B	1391	膨	0x9663	4336	膈	0xE455	7122
𧯳	0x879C	1392	謀	0x9664	4337	臑	0xE456	7123
𧯴	0x889F	1601	貌	0x9665	4338	臑	0xE457	7124
𧯵	0x88A0	1602	貿	0x9666	4339	腓	0xE458	7125
𧯶	0x88A1	1603	銖	0x9667	4340	膾	0xE459	7126
𧯷	0x88A2	1604	防	0x9668	4341	臄	0xE45A	7127
𧯸	0x88A3	1605	吠	0x9669	4342	臄	0xE45B	7128
𧯹	0x88A4	1606	頰	0x966A	4343	臀	0xE45C	7129
𧯺	0x88A5	1607	北	0x966B	4344	臂	0xE45D	7130
𧯻	0x88A6	1608	僕	0x966C	4345	膺	0xE45E	7131
𧯼	0x88A7	1609	卜	0x966D	4346	臉	0xE45F	7132
𧯽	0x88A8	1610	墨	0x966E	4347	臍	0xE460	7133
𧯾	0x88A9	1611	撲	0x966F	4348	臍	0xE461	7134
𧯿	0x88AA	1612	朴	0x9670	4349	臍	0xE462	7135
𧯿	0x88AB	1613	牧	0x9671	4350	臍	0xE463	7136
𧯿	0x88AC	1614	睦	0x9672	4351	臍	0xE464	7137



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
渥	0x88AD	1615	穆	0x9673	4352	臚	0xE465	7138
旭	0x88AE	1616	釦	0x9674	4353	臚	0xE466	7139
葦	0x88AF	1617	勃	0x9675	4354	臚	0xE467	7140
芦	0x88B0	1618	没	0x9676	4355	臚	0xE468	7141
鱒	0x88B1	1619	殆	0x9677	4356	臺	0xE469	7142
梓	0x88B2	1620	堀	0x9678	4357	臻	0xE46A	7143
庄	0x88B3	1621	幌	0x9679	4358	與	0xE46B	7144
幹	0x88B4	1622	奔	0x967A	4359	昇	0xE46C	7145
扱	0x88B5	1623	本	0x967B	4360	春	0xE46D	7146
宛	0x88B6	1624	翻	0x967C	4361	舅	0xE46E	7147
姐	0x88B7	1625	凡	0x967D	4362	與	0xE46F	7148
虻	0x88B8	1626	盆	0x967E	4363	舊	0xE470	7149
飴	0x88B9	1627	摩	0x9680	4364	舍	0xE471	7150
絢	0x88BA	1628	磨	0x9681	4365	舐	0xE472	7151
綾	0x88BB	1629	魔	0x9682	4366	舖	0xE473	7152
鮎	0x88BC	1630	麻	0x9683	4367	舩	0xE474	7153
或	0x88BD	1631	埋	0x9684	4368	舩	0xE475	7154
粟	0x88BE	1632	妹	0x9685	4369	舩	0xE476	7155
裕	0x88BF	1633	昧	0x9686	4370	舩	0xE477	7156
安	0x88C0	1634	枚	0x9687	4371	舩	0xE478	7157
庵	0x88C1	1635	每	0x9688	4372	艙	0xE479	7158
按	0x88C2	1636	哩	0x9689	4373	艘	0xE47A	7159
暗	0x88C3	1637	禎	0x968A	4374	艦	0xE47B	7160
案	0x88C4	1638	幕	0x968B	4375	艦	0xE47C	7161
闇	0x88C5	1639	膜	0x968C	4376	艦	0xE47D	7162
鞍	0x88C6	1640	枕	0x968D	4377	艦	0xE47E	7163
杏	0x88C7	1641	鮪	0x968E	4378	艦	0xE480	7164
以	0x88C8	1642	枉	0x968F	4379	艦	0xE481	7165
伊	0x88C9	1643	鱒	0x9690	4380	艦	0xE482	7166
位	0x88CA	1644	榭	0x9691	4381	艦	0xE483	7167
依	0x88CB	1645	亦	0x9692	4382	舩	0xE484	7168
偉	0x88CC	1646	俣	0x9693	4383	艱	0xE485	7169
囿	0x88CD	1647	又	0x9694	4384	艷	0xE486	7170
夷	0x88CE	1648	抹	0x9695	4385	艸	0xE487	7171
委	0x88CF	1649	末	0x9696	4386	艾	0xE488	7172
威	0x88D0	1650	沫	0x9697	4387	芍	0xE489	7173
尉	0x88D1	1651	迄	0x9698	4388	芒	0xE48A	7174
惟	0x88D2	1652	俛	0x9699	4389	莞	0xE48B	7175
意	0x88D3	1653	繭	0x969A	4390	芟	0xE48C	7176

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
慰	0x88D4	1654	曆	0x969B	4391	芻	0xE48D	7177
易	0x88D5	1655	万	0x969C	4392	芬	0xE48E	7178
椅	0x88D6	1656	慢	0x969D	4393	苡	0xE48F	7179
為	0x88D7	1657	滿	0x969E	4394	苳	0xE490	7180
畏	0x88D8	1658	漫	0x969F	4401	苟	0xE491	7181
異	0x88D9	1659	蔓	0x96A0	4402	苒	0xE492	7182
移	0x88DA	1660	味	0x96A1	4403	苴	0xE493	7183
維	0x88DB	1661	未	0x96A2	4404	苳	0xE494	7184
緯	0x88DC	1662	魅	0x96A3	4405	莓	0xE495	7185
胃	0x88DD	1663	巳	0x96A4	4406	莓	0xE496	7186
萎	0x88DE	1664	箕	0x96A5	4407	苳	0xE497	7187
衣	0x88DF	1665	岬	0x96A6	4408	苳	0xE498	7188
謂	0x88E0	1666	密	0x96A7	4409	萃	0xE499	7189
違	0x88E1	1667	蜜	0x96A8	4410	苞	0xE49A	7190
遺	0x88E2	1668	湊	0x96A9	4411	茆	0xE49B	7191
医	0x88E3	1669	蕞	0x96AA	4412	苳	0xE49C	7192
井	0x88E4	1670	稔	0x96AB	4413	茱	0xE49D	7193
亥	0x88E5	1671	脈	0x96AC	4414	苳	0xE49E	7194
域	0x88E6	1672	妙	0x96AD	4415	茵	0xE49F	7201
育	0x88E7	1673	耗	0x96AE	4416	茴	0xE4A0	7202
郁	0x88E8	1674	民	0x96AF	4417	蒼	0xE4A1	7203
磯	0x88E9	1675	眠	0x96B0	4418	茲	0xE4A2	7204
一	0x88EA	1676	務	0x96B1	4419	茱	0xE4A3	7205
巷	0x88EB	1677	夢	0x96B2	4420	荀	0xE4A4	7206
溢	0x88EC	1678	無	0x96B3	4421	茹	0xE4A5	7207
逸	0x88ED	1679	牟	0x96B4	4422	荐	0xE4A6	7208
稻	0x88EE	1680	矛	0x96B5	4423	蒼	0xE4A7	7209
茨	0x88EF	1681	霧	0x96B6	4424	茯	0xE4A8	7210
芋	0x88F0	1682	鷓	0x96B7	4425	茫	0xE4A9	7211
鱒	0x88F1	1683	棕	0x96B8	4426	茗	0xE4AA	7212
允	0x88F2	1684	婿	0x96B9	4427	荔	0xE4AB	7213
印	0x88F3	1685	娘	0x96BA	4428	莅	0xE4AC	7214
咽	0x88F4	1686	冥	0x96BB	4429	蕙	0xE4AD	7215
員	0x88F5	1687	名	0x96BC	4430	莪	0xE4AE	7216
因	0x88F6	1688	命	0x96BD	4431	蒼	0xE4AF	7217
姻	0x88F7	1689	明	0x96BE	4432	莢	0xE4B0	7218
引	0x88F8	1690	盟	0x96BF	4433	莖	0xE4B1	7219
飲	0x88F9	1691	迷	0x96C0	4434	莫	0xE4B2	7220
淫	0x88FA	1692	銘	0x96C1	4435	莎	0xE4B3	7221

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
胤	0x88FB	1693	鳴	0x96C2	4436	筋	0xE4B4	7222
蔭	0x88FC	1694	姪	0x96C3	4437	莊	0xE4B5	7223
院	0x8940	1701	牝	0x96C4	4438	荼	0xE4B6	7224
陰	0x8941	1702	滅	0x96C5	4439	菟	0xE4B7	7225
隱	0x8942	1703	免	0x96C6	4440	荳	0xE4B8	7226
韻	0x8943	1704	棉	0x96C7	4441	葱	0xE4B9	7227
吋	0x8944	1705	綿	0x96C8	4442	莠	0xE4BA	7228
右	0x8945	1706	緬	0x96C9	4443	莉	0xE4BB	7229
宇	0x8946	1707	面	0x96CA	4444	蓂	0xE4BC	7230
烏	0x8947	1708	麵	0x96CB	4445	菴	0xE4BD	7231
羽	0x8948	1709	摸	0x96CC	4446	萱	0xE4BE	7232
迂	0x8949	1710	模	0x96CD	4447	董	0xE4BF	7233
雨	0x894A	1711	茂	0x96CE	4448	崑	0xE4C0	7234
卯	0x894B	1712	妄	0x96CF	4449	菽	0xE4C1	7235
鵠	0x894C	1713	孟	0x96D0	4450	萃	0xE4C2	7236
窺	0x894D	1714	毛	0x96D1	4451	菘	0xE4C3	7237
丑	0x894E	1715	猛	0x96D2	4452	蕪	0xE4C4	7238
碓	0x894F	1716	盲	0x96D3	4453	菁	0xE4C5	7239
臼	0x8950	1717	網	0x96D4	4454	蒂	0xE4C6	7240
渦	0x8951	1718	耗	0x96D5	4455	菘	0xE4C7	7241
噓	0x8952	1719	蒙	0x96D6	4456	菠	0xE4C8	7242
唄	0x8953	1720	儲	0x96D7	4457	菲	0xE4C9	7243
鬱	0x8954	1721	木	0x96D8	4458	萍	0xE4CA	7244
蔚	0x8955	1722	默	0x96D9	4459	范	0xE4CB	7245
鰻	0x8956	1723	目	0x96DA	4460	萌	0xE4CC	7246
姥	0x8957	1724	杳	0x96DB	4461	莽	0xE4CD	7247
厖	0x8958	1725	勿	0x96DC	4462	蕘	0xE4CE	7248
浦	0x8959	1726	餅	0x96DD	4463	菱	0xE4CF	7249
瓜	0x895A	1727	尢	0x96DE	4464	苙	0xE4D0	7250
閏	0x895B	1728	戾	0x96DF	4465	葭	0xE4D1	7251
噂	0x895C	1729	粵	0x96E0	4466	藜	0xE4D2	7252
云	0x895D	1730	賞	0x96E1	4467	萼	0xE4D3	7253
運	0x895E	1731	問	0x96E2	4468	萼	0xE4D4	7254
雲	0x895F	1732	悶	0x96E3	4469	寇	0xE4D5	7255
荏	0x8960	1733	紋	0x96E4	4470	葦	0xE4D6	7256
餌	0x8961	1734	門	0x96E5	4471	葫	0xE4D7	7257
叡	0x8962	1735	匆	0x96E6	4472	藜	0xE4D8	7258
營	0x8963	1736	也	0x96E7	4473	葭	0xE4D9	7259
嬰	0x8964	1737	冶	0x96E8	4474	蒂	0xE4DA	7260

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
影	0x8965	1738	夜	0x96E9	4475	葩	0xE4DB	7261
映	0x8966	1739	爺	0x96EA	4476	葆	0xE4DC	7262
曳	0x8967	1740	耶	0x96EB	4477	萬	0xE4DD	7263
栄	0x8968	1741	野	0x96EC	4478	葯	0xE4DE	7264
永	0x8969	1742	弥	0x96ED	4479	施	0xE4DF	7265
泳	0x896A	1743	矢	0x96EE	4480	蒿	0xE4E0	7266
洩	0x896B	1744	厄	0x96EF	4481	蒺	0xE4E1	7267
瑛	0x896C	1745	役	0x96F0	4482	蓋	0xE4E2	7268
盈	0x896D	1746	約	0x96F1	4483	蒹	0xE4E3	7269
穎	0x896E	1747	菓	0x96F2	4484	蒿	0xE4E4	7270
穎	0x896F	1748	訖	0x96F3	4485	蒟	0xE4E5	7271
英	0x8970	1749	躍	0x96F4	4486	蔭	0xE4E6	7272
衛	0x8971	1750	靖	0x96F5	4487	蒼	0xE4E7	7273
詠	0x8972	1751	柳	0x96F6	4488	蒨	0xE4E8	7274
銳	0x8973	1752	藪	0x96F7	4489	蓀	0xE4E9	7275
液	0x8974	1753	鑪	0x96F8	4490	蓐	0xE4EA	7276
疫	0x8975	1754	愉	0x96F9	4491	藜	0xE4EB	7277
益	0x8976	1755	愈	0x96FA	4492	蓆	0xE4EC	7278
馱	0x8977	1756	油	0x96FB	4493	藎	0xE4ED	7279
悦	0x8978	1757	癒	0x96FC	4494	莠	0xE4EE	7280
謁	0x8979	1758	諭	0x9740	4501	蔡	0xE4EF	7281
越	0x897A	1759	輸	0x9741	4502	蓿	0xE4F0	7282
閱	0x897B	1760	唯	0x9742	4503	蓴	0xE4F1	7283
榎	0x897C	1761	佑	0x9743	4504	蔗	0xE4F2	7284
厭	0x897D	1762	優	0x9744	4505	蓼	0xE4F3	7285
円	0x897E	1763	勇	0x9745	4506	蔬	0xE4F4	7286
園	0x8980	1764	友	0x9746	4507	蒨	0xE4F5	7287
堰	0x8981	1765	宥	0x9747	4508	蓳	0xE4F6	7288
奄	0x8982	1766	幽	0x9748	4509	葡	0xE4F7	7289
宴	0x8983	1767	悠	0x9749	4510	蓼	0xE4F8	7290
延	0x8984	1768	憂	0x974A	4511	棘	0xE4F9	7291
怨	0x8985	1769	揖	0x974B	4512	薺	0xE4FA	7292
掩	0x8986	1770	有	0x974C	4513	藎	0xE4FB	7293
援	0x8987	1771	柚	0x974D	4514	藎	0xE4FC	7294
沿	0x8988	1772	湧	0x974E	4515	蓐	0xE540	7301
演	0x8989	1773	涌	0x974F	4516	藜	0xE541	7302
炎	0x898A	1774	猶	0x9750	4517	蒨	0xE542	7303
焰	0x898B	1775	猷	0x9751	4518	藎	0xE543	7304
煙	0x898C	1776	由	0x9752	4519	蒨	0xE544	7305

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
燕	0x898D	1777	祐	0x9753	4520	薤	0xE545	7306
猿	0x898E	1778	裕	0x9754	4521	薺	0xE546	7307
縁	0x898F	1779	誘	0x9755	4522	薑	0xE547	7308
艶	0x8990	1780	遊	0x9756	4523	薊	0xE548	7309
苑	0x8991	1781	邑	0x9757	4524	薺	0xE549	7310
菌	0x8992	1782	郵	0x9758	4525	蕭	0xE54A	7311
遠	0x8993	1783	雄	0x9759	4526	薺	0xE54B	7312
鉛	0x8994	1784	融	0x975A	4527	薺	0xE54C	7313
鴛	0x8995	1785	夕	0x975B	4528	薺	0xE54D	7314
塩	0x8996	1786	予	0x975C	4529	薇	0xE54E	7315
於	0x8997	1787	余	0x975D	4530	薺	0xE54F	7316
汚	0x8998	1788	与	0x975E	4531	蘋	0xE550	7317
甥	0x8999	1789	誉	0x975F	4532	薺	0xE551	7318
凹	0x899A	1790	輿	0x9760	4533	稜	0xE552	7319
央	0x899B	1791	預	0x9761	4534	藉	0xE553	7320
奥	0x899C	1792	傭	0x9762	4535	薺	0xE554	7321
往	0x899D	1793	幼	0x9763	4536	藏	0xE555	7322
応	0x899E	1794	妖	0x9764	4537	臺	0xE556	7323
押	0x899F	1801	容	0x9765	4538	貌	0xE557	7324
旺	0x89A0	1802	庸	0x9766	4539	藕	0xE558	7325
横	0x89A1	1803	揚	0x9767	4540	藝	0xE559	7326
欧	0x89A2	1804	摇	0x9768	4541	藥	0xE55A	7327
殴	0x89A3	1805	擁	0x9769	4542	藜	0xE55B	7328
王	0x89A4	1806	曜	0x976A	4543	藹	0xE55C	7329
翁	0x89A5	1807	楊	0x976B	4544	蘊	0xE55D	7330
襖	0x89A6	1808	樣	0x976C	4545	蕪	0xE55E	7331
鶯	0x89A7	1809	洋	0x976D	4546	蘋	0xE55F	7332
鷗	0x89A8	1810	溶	0x976E	4547	蘋	0xE560	7333
黄	0x89A9	1811	熔	0x976F	4548	藺	0xE561	7334
岡	0x89AA	1812	用	0x9770	4549	蘆	0xE562	7335
冲	0x89AB	1813	窯	0x9771	4550	龍	0xE563	7336
荻	0x89AC	1814	羊	0x9772	4551	薺	0xE564	7337
億	0x89AD	1815	耀	0x9773	4552	藪	0xE565	7338
屋	0x89AE	1816	葉	0x9774	4553	蘿	0xE566	7339
憶	0x89AF	1817	蓉	0x9775	4554	虺	0xE567	7340
臆	0x89B0	1818	要	0x9776	4555	帛	0xE568	7341
桶	0x89B1	1819	謡	0x9777	4556	虔	0xE569	7342
牡	0x89B2	1820	踊	0x9778	4557	號	0xE56A	7343
乙	0x89B3	1821	遥	0x9779	4558	虧	0xE56B	7344

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
俺	0x89B4	1822	陽	0x977A	4559	虱	0xE56C	7345
卸	0x89B5	1823	養	0x977B	4560	蚓	0xE56D	7346
恩	0x89B6	1824	慾	0x977C	4561	蚣	0xE56E	7347
温	0x89B7	1825	抑	0x977D	4562	蚩	0xE56F	7348
穩	0x89B8	1826	欲	0x977E	4563	蚪	0xE570	7349
音	0x89B9	1827	沃	0x9780	4564	蚎	0xE571	7350
下	0x89BA	1828	浴	0x9781	4565	蚌	0xE572	7351
化	0x89BB	1829	翌	0x9782	4566	蚶	0xE573	7352
仮	0x89BC	1830	翼	0x9783	4567	蚯	0xE574	7353
何	0x89BD	1831	淀	0x9784	4568	蛄	0xE575	7354
伽	0x89BE	1832	羅	0x9785	4569	蛆	0xE576	7355
価	0x89BF	1833	螺	0x9786	4570	蚰	0xE577	7356
佳	0x89C0	1834	裸	0x9787	4571	蛉	0xE578	7357
加	0x89C1	1835	来	0x9788	4572	螭	0xE579	7358
可	0x89C2	1836	莱	0x9789	4573	蛸	0xE57A	7359
嘉	0x89C3	1837	頼	0x978A	4574	蛔	0xE57B	7360
夏	0x89C4	1838	雷	0x978B	4575	蛞	0xE57C	7361
嫁	0x89C5	1839	洛	0x978C	4576	蛩	0xE57D	7362
家	0x89C6	1840	絡	0x978D	4577	蚕	0xE57E	7363
寡	0x89C7	1841	落	0x978E	4578	蛟	0xE580	7364
科	0x89C8	1842	酪	0x978F	4579	蛛	0xE581	7365
暇	0x89C9	1843	乱	0x9790	4580	蟋	0xE582	7366
果	0x89CA	1844	卵	0x9791	4581	蜒	0xE583	7367
架	0x89CB	1845	嵐	0x9792	4582	蛄	0xE584	7368
歌	0x89CC	1846	欄	0x9793	4583	蜈	0xE585	7369
河	0x89CD	1847	濫	0x9794	4584	蜀	0xE586	7370
火	0x89CE	1848	藍	0x9795	4585	蟹	0xE587	7371
珂	0x89CF	1849	蘭	0x9796	4586	蛻	0xE588	7372
禍	0x89D0	1850	覽	0x9797	4587	蟹	0xE589	7373
禾	0x89D1	1851	利	0x9798	4588	蟀	0xE58A	7374
稼	0x89D2	1852	吏	0x9799	4589	蝻	0xE58B	7375
箇	0x89D3	1853	履	0x979A	4590	蝻	0xE58C	7376
花	0x89D4	1854	李	0x979B	4591	蚧	0xE58D	7377
苛	0x89D5	1855	梨	0x979C	4592	蛴	0xE58E	7378
茄	0x89D6	1856	理	0x979D	4593	蛻	0xE58F	7379
荷	0x89D7	1857	璃	0x979E	4594	蝻	0xE590	7380
華	0x89D8	1858	痢	0x979F	4601	蜻	0xE591	7381
菓	0x89D9	1859	裏	0x97A0	4602	蜥	0xE592	7382
蝦	0x89DA	1860	裡	0x97A1	4603	蝸	0xE593	7383

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
課	0x89DB	1861	里	0x97A2	4604	蜚	0xE594	7384
擘	0x89DC	1862	離	0x97A3	4605	蝠	0xE595	7385
貨	0x89DD	1863	陸	0x97A4	4606	蝟	0xE596	7386
迦	0x89DE	1864	律	0x97A5	4607	蝸	0xE597	7387
過	0x89DF	1865	率	0x97A6	4608	蝌	0xE598	7388
霞	0x89E0	1866	立	0x97A7	4609	蝮	0xE599	7389
蚊	0x89E1	1867	葎	0x97A8	4610	蝴	0xE59A	7390
俄	0x89E2	1868	掠	0x97A9	4611	蝗	0xE59B	7391
峨	0x89E3	1869	略	0x97AA	4612	蝨	0xE59C	7392
我	0x89E4	1870	劉	0x97AB	4613	蝮	0xE59D	7393
牙	0x89E5	1871	流	0x97AC	4614	蝠	0xE59E	7394
画	0x89E6	1872	溜	0x97AD	4615	蝮	0xE59F	7401
臥	0x89E7	1873	琉	0x97AE	4616	蟒	0xE5A0	7402
芽	0x89E8	1874	留	0x97AF	4617	蝮	0xE5A1	7403
蛾	0x89E9	1875	硫	0x97B0	4618	蠅	0xE5A2	7404
賀	0x89EA	1876	粒	0x97B1	4619	螢	0xE5A3	7405
雅	0x89EB	1877	隆	0x97B2	4620	螟	0xE5A4	7406
餓	0x89EC	1878	竜	0x97B3	4621	螂	0xE5A5	7407
駕	0x89ED	1879	龍	0x97B4	4622	蝮	0xE5A6	7408
介	0x89EE	1880	侶	0x97B5	4623	蟋	0xE5A7	7409
会	0x89EF	1881	慮	0x97B6	4624	蝨	0xE5A8	7410
解	0x89F0	1882	旅	0x97B7	4625	蟀	0xE5A9	7411
回	0x89F1	1883	虜	0x97B8	4626	蝮	0xE5AA	7412
塊	0x89F2	1884	了	0x97B9	4627	蝮	0xE5AB	7413
壞	0x89F3	1885	亮	0x97BA	4628	蝮	0xE5AC	7414
迴	0x89F4	1886	僚	0x97BB	4629	蝮	0xE5AD	7415
快	0x89F5	1887	兩	0x97BC	4630	蝮	0xE5AE	7416
怪	0x89F6	1888	凌	0x97BD	4631	蠶	0xE5AF	7417
悔	0x89F7	1889	寮	0x97BE	4632	蝮	0xE5B0	7418
恢	0x89F8	1890	料	0x97BF	4633	蝮	0xE5B1	7419
懷	0x89F9	1891	梁	0x97C0	4634	蝮	0xE5B2	7420
戒	0x89FA	1892	涼	0x97C1	4635	蝮	0xE5B3	7421
拐	0x89FB	1893	獵	0x97C2	4636	蝮	0xE5B4	7422
改	0x89FC	1894	療	0x97C3	4637	蝮	0xE5B5	7423
魁	0x8A40	1901	瞭	0x97C4	4638	蝮	0xE5B6	7424
晦	0x8A41	1902	稜	0x97C5	4639	蝮	0xE5B7	7425
械	0x8A42	1903	糧	0x97C6	4640	蝮	0xE5B8	7426
海	0x8A43	1904	良	0x97C7	4641	蝮	0xE5B9	7427
灰	0x8A44	1905	諒	0x97C8	4642	蟒	0xE5BA	7428

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
界	0x8A45	1906	遼	0x97C9	4643	蟒	0xE5BB	7429
皆	0x8A46	1907	量	0x97CA	4644	蟒	0xE5BC	7430
繪	0x8A47	1908	陵	0x97CB	4645	蠖	0xE5BD	7431
芥	0x8A48	1909	領	0x97CC	4646	蠕	0xE5BE	7432
蟹	0x8A49	1910	力	0x97CD	4647	蠹	0xE5BF	7433
開	0x8A4A	1911	綠	0x97CE	4648	蠹	0xE5C0	7434
階	0x8A4B	1912	倫	0x97CF	4649	蠱	0xE5C1	7435
貝	0x8A4C	1913	厘	0x97D0	4650	蠹	0xE5C2	7436
凱	0x8A4D	1914	林	0x97D1	4651	蠹	0xE5C3	7437
効	0x8A4E	1915	淋	0x97D2	4652	蠹	0xE5C4	7438
外	0x8A4F	1916	熐	0x97D3	4653	蠻	0xE5C5	7439
咳	0x8A50	1917	琳	0x97D4	4654	衄	0xE5C6	7440
害	0x8A51	1918	臨	0x97D5	4655	衄	0xE5C7	7441
崖	0x8A52	1919	輪	0x97D6	4656	銜	0xE5C8	7442
慨	0x8A53	1920	隣	0x97D7	4657	銜	0xE5C9	7443
概	0x8A54	1921	鱗	0x97D8	4658	銜	0xE5CA	7444
涯	0x8A55	1922	麟	0x97D9	4659	衢	0xE5CB	7445
碍	0x8A56	1923	瑠	0x97DA	4660	衫	0xE5CC	7446
蓋	0x8A57	1924	壘	0x97DB	4661	袁	0xE5CD	7447
街	0x8A58	1925	淚	0x97DC	4662	衾	0xE5CE	7448
該	0x8A59	1926	累	0x97DD	4663	袞	0xE5CF	7449
鎧	0x8A5A	1927	類	0x97DE	4664	袂	0xE5D0	7450
骸	0x8A5B	1928	令	0x97DF	4665	袂	0xE5D1	7451
湮	0x8A5C	1929	伶	0x97E0	4666	袂	0xE5D2	7452
馨	0x8A5D	1930	例	0x97E1	4667	衲	0xE5D3	7453
蛙	0x8A5E	1931	冷	0x97E2	4668	袂	0xE5D4	7454
垣	0x8A5F	1932	勵	0x97E3	4669	袂	0xE5D5	7455
柿	0x8A60	1933	嶺	0x97E4	4670	袒	0xE5D6	7456
蛎	0x8A61	1934	伶	0x97E5	4671	衲	0xE5D7	7457
鈎	0x8A62	1935	玲	0x97E6	4672	衲	0xE5D8	7458
劃	0x8A63	1936	礼	0x97E7	4673	衲	0xE5D9	7459
嚇	0x8A64	1937	苓	0x97E8	4674	袍	0xE5DA	7460
各	0x8A65	1938	鈴	0x97E9	4675	裘	0xE5DB	7461
廓	0x8A66	1939	隸	0x97EA	4676	裘	0xE5DC	7462
拈	0x8A67	1940	零	0x97EB	4677	袪	0xE5DD	7463
攪	0x8A68	1941	靈	0x97EC	4678	袪	0xE5DE	7464
格	0x8A69	1942	麗	0x97ED	4679	袪	0xE5DF	7465
核	0x8A6A	1943	齡	0x97EE	4680	衲	0xE5E0	7466
殼	0x8A6B	1944	曆	0x97EF	4681	裔	0xE5E1	7467



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
獲	0x8A6C	1945	歴	0x97F0	4682	裘	0xE5E2	7468
確	0x8A6D	1946	列	0x97F1	4683	裙	0xE5E3	7469
穫	0x8A6E	1947	劣	0x97F2	4684	裝	0xE5E4	7470
覚	0x8A6F	1948	烈	0x97F3	4685	裹	0xE5E5	7471
角	0x8A70	1949	裂	0x97F4	4686	褂	0xE5E6	7472
赫	0x8A71	1950	廉	0x97F5	4687	裼	0xE5E7	7473
較	0x8A72	1951	恣	0x97F6	4688	裴	0xE5E8	7474
郭	0x8A73	1952	憐	0x97F7	4689	裨	0xE5E9	7475
閣	0x8A74	1953	漣	0x97F8	4690	褊	0xE5EA	7476
隔	0x8A75	1954	煉	0x97F9	4691	褻	0xE5EB	7477
革	0x8A76	1955	簾	0x97FA	4692	禪	0xE5EC	7478
学	0x8A77	1956	練	0x97FB	4693	褊	0xE5ED	7479
岳	0x8A78	1957	聯	0x97FC	4694	褌	0xE5EE	7480
案	0x8A79	1958	蓮	0x9840	4701	褰	0xE5EF	7481
額	0x8A7A	1959	連	0x9841	4702	褌	0xE5F0	7482
顛	0x8A7B	1960	鍊	0x9842	4703	褌	0xE5F1	7483
掛	0x8A7C	1961	呂	0x9843	4704	褌	0xE5F2	7484
笠	0x8A7D	1962	魯	0x9844	4705	褌	0xE5F3	7485
攄	0x8A7E	1963	櫓	0x9845	4706	褌	0xE5F4	7486
檣	0x8A80	1964	炉	0x9846	4707	褌	0xE5F5	7487
梶	0x8A81	1965	賂	0x9847	4708	褌	0xE5F6	7488
鯁	0x8A82	1966	路	0x9848	4709	褌	0xE5F7	7489
潟	0x8A83	1967	露	0x9849	4710	褌	0xE5F8	7490
割	0x8A84	1968	勞	0x984A	4711	禪	0xE5F9	7491
喝	0x8A85	1969	婁	0x984B	4712	禪	0xE5FA	7492
恰	0x8A86	1970	廊	0x984C	4713	褌	0xE5FB	7493
括	0x8A87	1971	弄	0x984D	4714	褌	0xE5FC	7494
活	0x8A88	1972	朗	0x984E	4715	褌	0xE640	7501
渴	0x8A89	1973	樓	0x984F	4716	褌	0xE641	7502
滑	0x8A8A	1974	榔	0x9850	4717	褌	0xE642	7503
葛	0x8A8B	1975	浪	0x9851	4718	褌	0xE643	7504
褐	0x8A8C	1976	漏	0x9852	4719	褌	0xE644	7505
轄	0x8A8D	1977	牢	0x9853	4720	褌	0xE645	7506
且	0x8A8E	1978	狼	0x9854	4721	褌	0xE646	7507
鯁	0x8A8F	1979	籠	0x9855	4722	而	0xE647	7508
叶	0x8A90	1980	老	0x9856	4723	覃	0xE648	7509
柁	0x8A91	1981	壘	0x9857	4724	覈	0xE649	7510
禱	0x8A92	1982	蠟	0x9858	4725	羈	0xE64A	7511
鞫	0x8A93	1983	郎	0x9859	4726	覓	0xE64B	7512

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
株	0x8A94	1984	六	0x985A	4727	覘	0xE64C	7513
兜	0x8A95	1985	麓	0x985B	4728	覘	0xE64D	7514
竈	0x8A96	1986	祿	0x985C	4729	覘	0xE64E	7515
蒲	0x8A97	1987	肋	0x985D	4730	覘	0xE64F	7516
釜	0x8A98	1988	録	0x985E	4731	覘	0xE650	7517
鎌	0x8A99	1989	論	0x985F	4732	覘	0xE651	7518
啣	0x8A9A	1990	倭	0x9860	4733	覘	0xE652	7519
鴨	0x8A9B	1991	和	0x9861	4734	覺	0xE653	7520
栢	0x8A9C	1992	話	0x9862	4735	覽	0xE654	7521
茅	0x8A9D	1993	歪	0x9863	4736	覘	0xE655	7522
萱	0x8A9E	1994	賄	0x9864	4737	覘	0xE656	7523
粥	0x8A9F	2001	脇	0x9865	4738	觚	0xE657	7524
刈	0x8AA0	2002	惑	0x9866	4739	觚	0xE658	7525
苻	0x8AA1	2003	梓	0x9867	4740	觚	0xE659	7526
瓦	0x8AA2	2004	鶯	0x9868	4741	觚	0xE65A	7527
乾	0x8AA3	2005	互	0x9869	4742	觚	0xE65B	7528
侃	0x8AA4	2006	亘	0x986A	4743	觸	0xE65C	7529
冠	0x8AA5	2007	鰐	0x986B	4744	訃	0xE65D	7530
寒	0x8AA6	2008	詫	0x986C	4745	訖	0xE65E	7531
刊	0x8AA7	2009	藁	0x986D	4746	訖	0xE65F	7532
勘	0x8AA8	2010	蕨	0x986E	4747	訖	0xE660	7533
勸	0x8AA9	2011	椀	0x986F	4748	訖	0xE661	7534
卷	0x8AAA	2012	灣	0x9870	4749	訝	0xE662	7535
喚	0x8AAB	2013	碗	0x9871	4750	訥	0xE663	7536
堪	0x8AAC	2014	腕	0x9872	4751	訶	0xE664	7537
姦	0x8AAD	2015	弑	0x989F	4801	詁	0xE665	7538
完	0x8AAE	2016	丐	0x98A0	4802	詁	0xE666	7539
官	0x8AAF	2017	丕	0x98A1	4803	詒	0xE667	7540
寬	0x8AB0	2018	个	0x98A2	4804	詆	0xE668	7541
干	0x8AB1	2019	卩	0x98A3	4805	詈	0xE669	7542
幹	0x8AB2	2020	丿	0x98A4	4806	詼	0xE66A	7543
患	0x8AB3	2021	井	0x98A5	4807	詭	0xE66B	7544
感	0x8AB4	2022	丿	0x98A6	4808	詭	0xE66C	7545
慣	0x8AB5	2023	乂	0x98A7	4809	詢	0xE66D	7546
憾	0x8AB6	2024	乖	0x98A8	4810	誅	0xE66E	7547
換	0x8AB7	2025	乘	0x98A9	4811	誅	0xE66F	7548
敢	0x8AB8	2026	亂	0x98AA	4812	誅	0xE670	7549
柑	0x8AB9	2027	丿	0x98AB	4813	誨	0xE671	7550
桓	0x8ABA	2028	豫	0x98AC	4814	誠	0xE672	7551

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
棺	0x8ABB	2029	葶	0x98AD	4815	誑	0xE673	7552
款	0x8ABC	2030	舒	0x98AE	4816	誑	0xE674	7553
欽	0x8ABD	2031	式	0x98AF	4817	誑	0xE675	7554
汗	0x8ABE	2032	于	0x98B0	4818	誑	0xE676	7555
漢	0x8ABF	2033	亞	0x98B1	4819	誑	0xE677	7556
澗	0x8AC0	2034	亟	0x98B2	4820	諄	0xE678	7557
漼	0x8AC1	2035	一	0x98B3	4821	諄	0xE679	7558
環	0x8AC2	2036	亢	0x98B4	4822	諄	0xE67A	7559
甘	0x8AC3	2037	京	0x98B5	4823	諄	0xE67B	7560
監	0x8AC4	2038	毫	0x98B6	4824	諫	0xE67C	7561
看	0x8AC5	2039	亶	0x98B7	4825	諫	0xE67D	7562
竿	0x8AC6	2040	从	0x98B8	4826	諧	0xE67E	7563
管	0x8AC7	2041	仍	0x98B9	4827	諤	0xE680	7564
簡	0x8AC8	2042	仄	0x98BA	4828	諱	0xE681	7565
緩	0x8AC9	2043	仆	0x98BB	4829	諱	0xE682	7566
缶	0x8ACA	2044	缶	0x98BC	4830	誼	0xE683	7567
翰	0x8ACB	2045	仗	0x98BD	4831	諱	0xE684	7568
肝	0x8ACC	2046	仞	0x98BE	4832	諷	0xE685	7569
艦	0x8ACD	2047	仞	0x98BF	4833	諷	0xE686	7570
莞	0x8ACE	2048	仞	0x98C0	4834	諛	0xE687	7571
覲	0x8ACF	2049	价	0x98C1	4835	諤	0xE688	7572
諫	0x8AD0	2050	伉	0x98C2	4836	謔	0xE689	7573
貫	0x8AD1	2051	佚	0x98C3	4837	謔	0xE68A	7574
還	0x8AD2	2052	估	0x98C4	4838	謔	0xE68B	7575
鑑	0x8AD3	2053	佛	0x98C5	4839	謔	0xE68C	7576
間	0x8AD4	2054	佻	0x98C6	4840	謔	0xE68D	7577
閑	0x8AD5	2055	佻	0x98C7	4841	謔	0xE68E	7578
閑	0x8AD6	2056	佇	0x98C8	4842	謔	0xE68F	7579
陷	0x8AD7	2057	佻	0x98C9	4843	謔	0xE690	7580
韓	0x8AD8	2058	侈	0x98CA	4844	鞫	0xE691	7581
館	0x8AD9	2059	侏	0x98CB	4845	鞫	0xE692	7582
館	0x8ADA	2060	侏	0x98CC	4846	謫	0xE693	7583
丸	0x8ADB	2061	桃	0x98CD	4847	謔	0xE694	7584
含	0x8ADC	2062	佩	0x98CE	4848	謔	0xE695	7585
岸	0x8ADD	2063	佰	0x98CF	4849	譁	0xE696	7586
巖	0x8ADE	2064	侑	0x98D0	4850	譁	0xE697	7587
玩	0x8ADF	2065	伴	0x98D1	4851	譁	0xE698	7588
癌	0x8AE0	2066	來	0x98D2	4852	譁	0xE699	7589
眼	0x8AE1	2067	侖	0x98D3	4853	證	0xE69A	7590

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
岩	0x8AE2	2068	儘	0x98D4	4854	譖	0xE69B	7591
翫	0x8AE3	2069	俛	0x98D5	4855	譖	0xE69C	7592
賈	0x8AE4	2070	俟	0x98D6	4856	譚	0xE69D	7593
雁	0x8AE5	2071	俎	0x98D7	4857	譚	0xE69E	7594
頑	0x8AE6	2072	俘	0x98D8	4858	譟	0xE69F	7601
顏	0x8AE7	2073	俛	0x98D9	4859	讐	0xE6A0	7602
願	0x8AE8	2074	俑	0x98DA	4860	譯	0xE6A1	7603
企	0x8AE9	2075	俚	0x98DB	4861	譴	0xE6A2	7604
伎	0x8AEA	2076	俐	0x98DC	4862	譽	0xE6A3	7605
危	0x8AEB	2077	倂	0x98DD	4863	讀	0xE6A4	7606
喜	0x8AEC	2078	倂	0x98DE	4864	讌	0xE6A5	7607
器	0x8AED	2079	倚	0x98DF	4865	讎	0xE6A6	7608
基	0x8AEE	2080	倨	0x98E0	4866	讎	0xE6A7	7609
奇	0x8AEF	2081	倔	0x98E1	4867	讓	0xE6A8	7610
嬉	0x8AF0	2082	俛	0x98E2	4868	讖	0xE6A9	7611
寄	0x8AF1	2083	倥	0x98E3	4869	謹	0xE6AA	7612
岐	0x8AF2	2084	倥	0x98E4	4870	讚	0xE6AB	7613
希	0x8AF3	2085	倥	0x98E5	4871	訝	0xE6AC	7614
幾	0x8AF4	2086	倣	0x98E6	4872	豁	0xE6AD	7615
忌	0x8AF5	2087	倡	0x98E7	4873	豁	0xE6AE	7616
揮	0x8AF6	2088	倩	0x98E8	4874	豈	0xE6AF	7617
机	0x8AF7	2089	倬	0x98E9	4875	詭	0xE6B0	7618
旗	0x8AF8	2090	倬	0x98EA	4876	豎	0xE6B1	7619
既	0x8AF9	2091	俯	0x98EB	4877	豐	0xE6B2	7620
期	0x8AFA	2092	們	0x98EC	4878	豕	0xE6B3	7621
棋	0x8AFB	2093	倆	0x98ED	4879	豢	0xE6B4	7622
棄	0x8AFC	2094	偃	0x98EE	4880	豕	0xE6B5	7623
機	0x8B40	2101	假	0x98EF	4881	豕	0xE6B6	7624
婦	0x8B41	2102	會	0x98F0	4882	豕	0xE6B7	7625
毅	0x8B42	2103	借	0x98F1	4883	豕	0xE6B8	7626
氦	0x8B43	2104	彥	0x98F2	4884	豕	0xE6B9	7627
汽	0x8B44	2105	偈	0x98F3	4885	豕	0xE6BA	7628
畿	0x8B45	2106	做	0x98F4	4886	豕	0xE6BB	7629
祈	0x8B46	2107	偕	0x98F5	4887	豕	0xE6BC	7630
季	0x8B47	2108	偈	0x98F6	4888	豕	0xE6BD	7631
稀	0x8B48	2109	偷	0x98F7	4889	豕	0xE6BE	7632
紀	0x8B49	2110	傀	0x98F8	4890	豕	0xE6BF	7633
徽	0x8B4A	2111	倣	0x98F9	4891	豕	0xE6C0	7634
規	0x8B4B	2112	傅	0x98FA	4892	賤	0xE6C1	7635

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
記	0x8B4C	2113	僵	0x98FB	4893	質	0xE6C2	7636
貴	0x8B4D	2114	傲	0x98FC	4894	貪	0xE6C3	7637
起	0x8B4E	2115	僉	0x9940	4901	貽	0xE6C4	7638
軌	0x8B4F	2116	僇	0x9941	4902	賞	0xE6C5	7639
輝	0x8B50	2117	傳	0x9942	4903	貳	0xE6C6	7640
飢	0x8B51	2118	僂	0x9943	4904	貳	0xE6C7	7641
騎	0x8B52	2119	僖	0x9944	4905	貶	0xE6C8	7642
鬼	0x8B53	2120	僞	0x9945	4906	賈	0xE6C9	7643
龜	0x8B54	2121	僥	0x9946	4907	賁	0xE6CA	7644
偽	0x8B55	2122	僭	0x9947	4908	賤	0xE6CB	7645
儀	0x8B56	2123	僭	0x9948	4909	賈	0xE6CC	7646
妓	0x8B57	2124	僮	0x9949	4910	賚	0xE6CD	7647
宜	0x8B58	2125	價	0x994A	4911	賽	0xE6CE	7648
戲	0x8B59	2126	僵	0x994B	4912	賺	0xE6CF	7649
技	0x8B5A	2127	儉	0x994C	4913	賻	0xE6D0	7650
擬	0x8B5B	2128	僞	0x994D	4914	賚	0xE6D1	7651
欺	0x8B5C	2129	僂	0x994E	4915	賚	0xE6D2	7652
儀	0x8B5D	2130	僭	0x994F	4916	贊	0xE6D3	7653
疑	0x8B5E	2131	僭	0x9950	4917	贊	0xE6D4	7654
祇	0x8B5F	2132	僞	0x9951	4918	贏	0xE6D5	7655
義	0x8B60	2133	僂	0x9952	4919	瞻	0xE6D6	7656
蟻	0x8B61	2134	僂	0x9953	4920	臚	0xE6D7	7657
誼	0x8B62	2135	僂	0x9954	4921	齋	0xE6D8	7658
議	0x8B63	2136	僂	0x9955	4922	臧	0xE6D9	7659
掬	0x8B64	2137	僂	0x9956	4923	贓	0xE6DA	7660
菊	0x8B65	2138	僂	0x9957	4924	鼻	0xE6DB	7661
鞠	0x8B66	2139	儿	0x9958	4925	贖	0xE6DC	7662
吉	0x8B67	2140	兀	0x9959	4926	赧	0xE6DD	7663
吃	0x8B68	2141	兒	0x995A	4927	赭	0xE6DE	7664
喫	0x8B69	2142	兌	0x995B	4928	志	0xE6DF	7665
桔	0x8B6A	2143	免	0x995C	4929	赳	0xE6E0	7666
橘	0x8B6B	2144	競	0x995D	4930	趁	0xE6E1	7667
詰	0x8B6C	2145	競	0x995E	4931	趙	0xE6E2	7668
砧	0x8B6D	2146	兩	0x995F	4932	跂	0xE6E3	7669
杵	0x8B6E	2147	愈	0x9960	4933	趾	0xE6E4	7670
黍	0x8B6F	2148	兮	0x9961	4934	趺	0xE6E5	7671
却	0x8B70	2149	冀	0x9962	4935	跏	0xE6E6	7672
客	0x8B71	2150	冂	0x9963	4936	跚	0xE6E7	7673
脚	0x8B72	2151	回	0x9964	4937	跖	0xE6E8	7674

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
虐	0x8B73	2152	册	0x9965	4938	跌	0xE6E9	7675
逆	0x8B74	2153	冉	0x9966	4939	跛	0xE6EA	7676
丘	0x8B75	2154	冏	0x9967	4940	跛	0xE6EB	7677
久	0x8B76	2155	冑	0x9968	4941	跪	0xE6EC	7678
仇	0x8B77	2156	菁	0x9969	4942	登	0xE6ED	7679
休	0x8B78	2157	冕	0x996A	4943	跟	0xE6EE	7680
及	0x8B79	2158	冫	0x996B	4944	跣	0xE6EF	7681
吸	0x8B7A	2159	冤	0x996C	4945	跣	0xE6F0	7682
宮	0x8B7B	2160	寇	0x996D	4946	踈	0xE6F1	7683
弓	0x8B7C	2161	冢	0x996E	4947	踉	0xE6F2	7684
急	0x8B7D	2162	冓	0x996F	4948	踉	0xE6F3	7685
救	0x8B7E	2163	冓	0x9970	4949	蹀	0xE6F4	7686
朽	0x8B80	2164	丿	0x9971	4950	踞	0xE6F5	7687
求	0x8B81	2165	决	0x9972	4951	踐	0xE6F6	7688
汲	0x8B82	2166	冫	0x9973	4952	踞	0xE6F7	7689
泣	0x8B83	2167	冲	0x9974	4953	蹂	0xE6F8	7690
灸	0x8B84	2168	冰	0x9975	4954	踵	0xE6F9	7691
球	0x8B85	2169	况	0x9976	4955	踰	0xE6FA	7692
究	0x8B86	2170	冽	0x9977	4956	踰	0xE6FB	7693
窮	0x8B87	2171	洄	0x9978	4957	蹊	0xE6FC	7694
笈	0x8B88	2172	凉	0x9979	4958	蹇	0xE740	7701
級	0x8B89	2173	凜	0x997A	4959	蹉	0xE741	7702
糾	0x8B8A	2174	几	0x997B	4960	蹉	0xE742	7703
給	0x8B8B	2175	處	0x997C	4961	躋	0xE743	7704
旧	0x8B8C	2176	凵	0x997D	4962	蹈	0xE744	7705
牛	0x8B8D	2177	凭	0x997E	4963	蹙	0xE745	7706
去	0x8B8E	2178	凰	0x9980	4964	蹤	0xE746	7707
居	0x8B8F	2179	凵	0x9981	4965	蹙	0xE747	7708
巨	0x8B90	2180	函	0x9982	4966	踪	0xE748	7709
拒	0x8B91	2181	刃	0x9983	4967	蹙	0xE749	7710
拋	0x8B92	2182	刊	0x9984	4968	蹙	0xE74A	7711
拳	0x8B93	2183	刂	0x9985	4969	蹙	0xE74B	7712
渠	0x8B94	2184	刂	0x9986	4970	蹲	0xE74C	7713
虛	0x8B95	2185	刂	0x9987	4971	蹙	0xE74D	7714
許	0x8B96	2186	刪	0x9988	4972	躁	0xE74E	7715
距	0x8B97	2187	刮	0x9989	4973	躋	0xE74F	7716
鋸	0x8B98	2188	剗	0x998A	4974	躋	0xE750	7717
漁	0x8B99	2189	刹	0x998B	4975	蹙	0xE751	7718
禦	0x8B9A	2190	鞞	0x998C	4976	躋	0xE752	7719

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
魚	0x8B9B	2191	剗	0x998D	4977	躡	0xE753	7720
亨	0x8B9C	2192	剗	0x998E	4978	躡	0xE754	7721
享	0x8B9D	2193	剗	0x998F	4979	躡	0xE755	7722
京	0x8B9E	2194	剗	0x9990	4980	躡	0xE756	7723
供	0x8B9F	2201	剗	0x9991	4981	躡	0xE757	7724
俠	0x8BA0	2202	剗	0x9992	4982	躡	0xE758	7725
僑	0x8BA1	2203	剗	0x9993	4983	躡	0xE759	7726
兇	0x8BA2	2204	剗	0x9994	4984	躡	0xE75A	7727
競	0x8BA3	2205	剗	0x9995	4985	躡	0xE75B	7728
共	0x8BA4	2206	剗	0x9996	4986	躡	0xE75C	7729
凶	0x8BA5	2207	剗	0x9997	4987	躡	0xE75D	7730
協	0x8BA6	2208	剗	0x9998	4988	躡	0xE75E	7731
匡	0x8BA7	2209	剗	0x9999	4989	躡	0xE75F	7732
脚	0x8BA8	2210	剗	0x999A	4990	躡	0xE760	7733
叫	0x8BA9	2211	剗	0x999B	4991	軋	0xE761	7734
喬	0x8BAA	2212	剗	0x999C	4992	軋	0xE762	7735
境	0x8BAB	2213	剗	0x999D	4993	軋	0xE763	7736
峽	0x8BAC	2214	剗	0x999E	4994	軋	0xE764	7737
強	0x8BAD	2215	剗	0x999F	5001	軋	0xE765	7738
疆	0x8BAE	2216	剗	0x99A0	5002	軋	0xE766	7739
怯	0x8BAF	2217	剗	0x99A1	5003	軋	0xE767	7740
恐	0x8BB0	2218	剗	0x99A2	5004	軋	0xE768	7741
恭	0x8BB1	2219	剗	0x99A3	5005	軋	0xE769	7742
挾	0x8BB2	2220	剗	0x99A4	5006	軋	0xE76A	7743
教	0x8BB3	2221	剗	0x99A5	5007	軋	0xE76B	7744
橋	0x8BB4	2222	剗	0x99A6	5008	軋	0xE76C	7745
況	0x8BB5	2223	剗	0x99A7	5009	軋	0xE76D	7746
狂	0x8BB6	2224	剗	0x99A8	5010	軋	0xE76E	7747
狹	0x8BB7	2225	剗	0x99A9	5011	軋	0xE76F	7748
矯	0x8BB8	2226	剗	0x99AA	5012	軋	0xE770	7749
胸	0x8BB9	2227	剗	0x99AB	5013	軋	0xE771	7750
脅	0x8BBA	2228	剗	0x99AC	5014	軋	0xE772	7751
興	0x8BBB	2229	剗	0x99AD	5015	軋	0xE773	7752
蕎	0x8BBC	2230	剗	0x99AE	5016	軋	0xE774	7753
鄉	0x8BBD	2231	剗	0x99AF	5017	軋	0xE775	7754
鏡	0x8BBE	2232	剗	0x99B0	5018	軋	0xE776	7755
響	0x8BBF	2233	剗	0x99B1	5019	軋	0xE777	7756
饗	0x8BC0	2234	剗	0x99B2	5020	軋	0xE778	7757
驚	0x8BC1	2235	剗	0x99B3	5021	軋	0xE779	7758

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
仰	0x8BC2	2236	匍	0x99B4	5022	轉	0xE77A	7759
凝	0x8BC3	2237	匏	0x99B5	5023	輓	0xE77B	7760
堯	0x8BC4	2238	匕	0x99B6	5024	轎	0xE77C	7761
曉	0x8BC5	2239	匚	0x99B7	5025	輓	0xE77D	7762
業	0x8BC6	2240	匜	0x99B8	5026	輻	0xE77E	7763
局	0x8BC7	2241	匜	0x99B9	5027	輓	0xE780	7764
曲	0x8BC8	2242	匜	0x99BA	5028	輓	0xE781	7765
極	0x8BC9	2243	匜	0x99BB	5029	輓	0xE782	7766
玉	0x8BCA	2244	匚	0x99BC	5030	辜	0xE783	7767
桐	0x8BCB	2245	區	0x99BD	5031	辟	0xE784	7768
籽	0x8BCC	2246	𠂔	0x99BE	5032	辣	0xE785	7769
僅	0x8BCD	2247	卅	0x99BF	5033	辭	0xE786	7770
勤	0x8BCE	2248	卅	0x99C0	5034	辯	0xE787	7771
均	0x8BCF	2249	卉	0x99C1	5035	亾	0xE788	7772
巾	0x8BD0	2250	卂	0x99C2	5036	迕	0xE789	7773
錦	0x8BD1	2251	準	0x99C3	5037	迕	0xE78A	7774
斤	0x8BD2	2252	卞	0x99C4	5038	迕	0xE78B	7775
欣	0x8BD3	2253	卞	0x99C5	5039	迪	0xE78C	7776
欽	0x8BD4	2254	卞	0x99C6	5040	迕	0xE78D	7777
琴	0x8BD5	2255	卯	0x99C7	5041	迕	0xE78E	7778
禁	0x8BD6	2256	卻	0x99C8	5042	迕	0xE78F	7779
禽	0x8BD7	2257	卷	0x99C9	5043	迕	0xE790	7780
筋	0x8BD8	2258	厂	0x99CA	5044	迹	0xE791	7781
緊	0x8BD9	2259	厖	0x99CB	5045	迕	0xE792	7782
芹	0x8BDA	2260	厖	0x99CC	5046	迷	0xE793	7783
菌	0x8BDB	2261	厦	0x99CD	5047	逕	0xE794	7784
衿	0x8BDC	2262	厥	0x99CE	5048	逕	0xE795	7785
襟	0x8BDD	2263	厥	0x99CF	5049	迕	0xE796	7786
謹	0x8BDE	2264	厥	0x99D0	5050	迕	0xE797	7787
近	0x8BDF	2265	厶	0x99D1	5051	迕	0xE798	7788
金	0x8BE0	2266	參	0x99D2	5052	逕	0xE799	7789
吟	0x8BE1	2267	纂	0x99D3	5053	逕	0xE79A	7790
銀	0x8BE2	2268	雙	0x99D4	5054	逕	0xE79B	7791
九	0x8BE3	2269	叟	0x99D5	5055	逕	0xE79C	7792
俱	0x8BE4	2270	曼	0x99D6	5056	逕	0xE79D	7793
句	0x8BE5	2271	變	0x99D7	5057	逕	0xE79E	7794
区	0x8BE6	2272	叮	0x99D8	5058	遏	0xE79F	7801
狗	0x8BE7	2273	叨	0x99D9	5059	遐	0xE7A0	7802
玟	0x8BE8	2274	叭	0x99DA	5060	遑	0xE7A1	7803



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
矩	0x8BE9	2275	叭	0x99DB	5061	迢	0xE7A2	7804
苦	0x8BEA	2276	吁	0x99DC	5062	迢	0xE7A3	7805
軀	0x8BEB	2277	咩	0x99DD	5063	迢	0xE7A4	7806
驅	0x8BEC	2278	呀	0x99DE	5064	逾	0xE7A5	7807
駟	0x8BED	2279	听	0x99DF	5065	適	0xE7A6	7808
駒	0x8BEE	2280	吭	0x99E0	5066	邁	0xE7A7	7809
具	0x8BEF	2281	吼	0x99E1	5067	遞	0xE7A8	7810
愚	0x8BF0	2282	吮	0x99E2	5068	邀	0xE7A9	7811
虞	0x8BF1	2283	呐	0x99E3	5069	遞	0xE7AA	7812
喰	0x8BF2	2284	吩	0x99E4	5070	邊	0xE7AB	7813
空	0x8BF3	2285	吝	0x99E5	5071	隨	0xE7AC	7814
偶	0x8BF4	2286	呖	0x99E6	5072	遲	0xE7AD	7815
寓	0x8BF5	2287	咏	0x99E7	5073	遯	0xE7AE	7816
遇	0x8BF6	2288	呵	0x99E8	5074	遽	0xE7AF	7817
隅	0x8BF7	2289	咎	0x99E9	5075	邁	0xE7B0	7818
串	0x8BF8	2290	咳	0x99EA	5076	邀	0xE7B1	7819
櫛	0x8BF9	2291	呱	0x99EB	5077	邊	0xE7B2	7820
釧	0x8BFA	2292	呷	0x99EC	5078	邊	0xE7B3	7821
屑	0x8BFB	2293	皆	0x99ED	5079	邏	0xE7B4	7822
屈	0x8BFC	2294	咒	0x99EE	5080	邨	0xE7B5	7823
掘	0x8C40	2301	呻	0x99EF	5081	邨	0xE7B6	7824
窟	0x8C41	2302	咀	0x99F0	5082	邱	0xE7B7	7825
沓	0x8C42	2303	呶	0x99F1	5083	邵	0xE7B8	7826
靴	0x8C43	2304	咄	0x99F2	5084	郢	0xE7B9	7827
轡	0x8C44	2305	咐	0x99F3	5085	郤	0xE7BA	7828
窪	0x8C45	2306	咆	0x99F4	5086	扈	0xE7BB	7829
熊	0x8C46	2307	哇	0x99F5	5087	郛	0xE7BC	7830
隈	0x8C47	2308	号	0x99F6	5088	鄂	0xE7BD	7831
彙	0x8C48	2309	咸	0x99F7	5089	鄒	0xE7BE	7832
栗	0x8C49	2310	啞	0x99F8	5090	鄙	0xE7BF	7833
縲	0x8C4A	2311	咬	0x99F9	5091	鄆	0xE7C0	7834
桑	0x8C4B	2312	哄	0x99FA	5092	鄰	0xE7C1	7835
鍬	0x8C4C	2313	哈	0x99FB	5093	酊	0xE7C2	7836
勳	0x8C4D	2314	咨	0x99FC	5094	酖	0xE7C3	7837
君	0x8C4E	2315	咫	0x9A40	5101	醅	0xE7C4	7838
薰	0x8C4F	2316	晒	0x9A41	5102	酖	0xE7C5	7839
訓	0x8C50	2317	咤	0x9A42	5103	酥	0xE7C6	7840
群	0x8C51	2318	啞	0x9A43	5104	醅	0xE7C7	7841
軍	0x8C52	2319	尙	0x9A44	5105	醅	0xE7C8	7842

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
郡	0x8C53	2320	听	0x9A45	5106	醒	0xE7C9	7843
卦	0x8C54	2321	哥	0x9A46	5107	醋	0xE7CA	7844
袈	0x8C55	2322	哦	0x9A47	5108	醉	0xE7CB	7845
祁	0x8C56	2323	唏	0x9A48	5109	醢	0xE7CC	7846
係	0x8C57	2324	唔	0x9A49	5110	醢	0xE7CD	7847
傾	0x8C58	2325	哽	0x9A4A	5111	醫	0xE7CE	7848
刑	0x8C59	2326	哮	0x9A4B	5112	醢	0xE7CF	7849
兄	0x8C5A	2327	哭	0x9A4C	5113	醢	0xE7D0	7850
啓	0x8C5B	2328	哺	0x9A4D	5114	醢	0xE7D1	7851
圭	0x8C5C	2329	哢	0x9A4E	5115	醢	0xE7D2	7852
珪	0x8C5D	2330	嗽	0x9A4F	5116	醢	0xE7D3	7853
型	0x8C5E	2331	唾	0x9A50	5117	醢	0xE7D4	7854
契	0x8C5F	2332	啣	0x9A51	5118	覺	0xE7D5	7855
形	0x8C60	2333	控	0x9A52	5119	釉	0xE7D6	7856
徑	0x8C61	2334	售	0x9A53	5120	釋	0xE7D7	7857
惠	0x8C62	2335	啜	0x9A54	5121	釐	0xE7D8	7858
慶	0x8C63	2336	卓	0x9A55	5122	釧	0xE7D9	7859
慧	0x8C64	2337	啖	0x9A56	5123	釧	0xE7DA	7860
憩	0x8C65	2338	啗	0x9A57	5124	釜	0xE7DB	7861
揭	0x8C66	2339	唸	0x9A58	5125	釧	0xE7DC	7862
携	0x8C67	2340	唢	0x9A59	5126	釧	0xE7DD	7863
敬	0x8C68	2341	唢	0x9A5A	5127	釧	0xE7DE	7864
景	0x8C69	2342	喙	0x9A5B	5128	鉍	0xE7DF	7865
桂	0x8C6A	2343	喀	0x9A5C	5129	鈞	0xE7E0	7866
溪	0x8C6B	2344	咯	0x9A5D	5130	鉞	0xE7E1	7867
畦	0x8C6C	2345	喊	0x9A5E	5131	鈔	0xE7E2	7868
稽	0x8C6D	2346	喟	0x9A5F	5132	鉞	0xE7E3	7869
系	0x8C6E	2347	營	0x9A60	5133	鈕	0xE7E4	7870
經	0x8C6F	2348	啾	0x9A61	5134	鉞	0xE7E5	7871
繼	0x8C70	2349	喘	0x9A62	5135	鉞	0xE7E6	7872
繫	0x8C71	2350	啣	0x9A63	5136	鉗	0xE7E7	7873
罍	0x8C72	2351	單	0x9A64	5137	鉅	0xE7E8	7874
莖	0x8C73	2352	啼	0x9A65	5138	鉉	0xE7E9	7875
荊	0x8C74	2353	喃	0x9A66	5139	鉤	0xE7EA	7876
蚩	0x8C75	2354	喻	0x9A67	5140	鉉	0xE7EB	7877
計	0x8C76	2355	喇	0x9A68	5141	鉉	0xE7EC	7878
詣	0x8C77	2356	曉	0x9A69	5142	鉉	0xE7ED	7879
警	0x8C78	2357	鳴	0x9A6A	5143	鉉	0xE7EE	7880
輕	0x8C79	2358	嗅	0x9A6B	5144	鉉	0xE7EF	7881

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
頤	0x8C7A	2359	嗟	0x9A6C	5145	銜	0xE7F0	7882
鷄	0x8C7B	2360	嘎	0x9A6D	5146	銖	0xE7F1	7883
芸	0x8C7C	2361	嗜	0x9A6E	5147	銓	0xE7F2	7884
迎	0x8C7D	2362	嗤	0x9A6F	5148	銛	0xE7F3	7885
鯨	0x8C7E	2363	嘖	0x9A70	5149	鉚	0xE7F4	7886
劇	0x8C80	2364	嘔	0x9A71	5150	鉃	0xE7F5	7887
戟	0x8C81	2365	嗽	0x9A72	5151	銕	0xE7F6	7888
擊	0x8C82	2366	嘖	0x9A73	5152	銷	0xE7F7	7889
激	0x8C83	2367	嗝	0x9A74	5153	銍	0xE7F8	7890
隙	0x8C84	2368	嗽	0x9A75	5154	銎	0xE7F9	7891
朽	0x8C85	2369	嘛	0x9A76	5155	鉤	0xE7FA	7892
傑	0x8C86	2370	噠	0x9A77	5156	鉦	0xE7FB	7893
欠	0x8C87	2371	噎	0x9A78	5157	鉧	0xE7FC	7894
決	0x8C88	2372	噐	0x9A79	5158	鉨	0xE840	7901
潔	0x8C89	2373	營	0x9A7A	5159	錢	0xE841	7902
穴	0x8C8A	2374	嘴	0x9A7B	5160	錚	0xE842	7903
結	0x8C8B	2375	嘶	0x9A7C	5161	鋸	0xE843	7904
血	0x8C8C	2376	嘲	0x9A7D	5162	鋈	0xE844	7905
訣	0x8C8D	2377	噓	0x9A7E	5163	鉉	0xE845	7906
月	0x8C8E	2378	噫	0x9A80	5164	鉊	0xE846	7907
件	0x8C8F	2379	噤	0x9A81	5165	鍛	0xE847	7908
儉	0x8C90	2380	嘯	0x9A82	5166	鎗	0xE848	7909
倦	0x8C91	2381	噬	0x9A83	5167	鉋	0xE849	7910
健	0x8C92	2382	噪	0x9A84	5168	鉌	0xE84A	7911
兼	0x8C93	2383	噤	0x9A85	5169	鎗	0xE84B	7912
券	0x8C94	2384	嚀	0x9A86	5170	鎗	0xE84C	7913
劍	0x8C95	2385	噤	0x9A87	5171	鎗	0xE84D	7914
喧	0x8C96	2386	噉	0x9A88	5172	鎗	0xE84E	7915
圈	0x8C97	2387	噉	0x9A89	5173	鎗	0xE84F	7916
堅	0x8C98	2388	噉	0x9A8A	5174	鎗	0xE850	7917
嫌	0x8C99	2389	噉	0x9A8B	5175	鎗	0xE851	7918
建	0x8C9A	2390	嚀	0x9A8C	5176	鎗	0xE852	7919
憲	0x8C9B	2391	嚀	0x9A8D	5177	鎗	0xE853	7920
懸	0x8C9C	2392	嚴	0x9A8E	5178	鎗	0xE854	7921
拳	0x8C9D	2393	噉	0x9A8F	5179	鎗	0xE855	7922
捲	0x8C9E	2394	嚼	0x9A90	5180	鎗	0xE856	7923
檢	0x8C9F	2401	噉	0x9A91	5181	鎗	0xE857	7924
權	0x8CA0	2402	噉	0x9A92	5182	鎗	0xE858	7925
牽	0x8CA1	2403	噉	0x9A93	5183	鎗	0xE859	7926

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
犬	0x8CA2	2404	嚙	0x9A94	5184	鏤	0xE85A	7927
獻	0x8CA3	2405	嚙	0x9A95	5185	鏤	0xE85B	7928
研	0x8CA4	2406	囑	0x9A96	5186	鏢	0xE85C	7929
硯	0x8CA5	2407	囑	0x9A97	5187	鏃	0xE85D	7930
絹	0x8CA6	2408	口	0x9A98	5188	鏢	0xE85E	7931
梟	0x8CA7	2409	囧	0x9A99	5189	鏢	0xE85F	7932
肩	0x8CA8	2410	囧	0x9A9A	5190	鏢	0xE860	7933
見	0x8CA9	2411	囧	0x9A9B	5191	鏢	0xE861	7934
謙	0x8CAA	2412	囧	0x9A9C	5192	鏢	0xE862	7935
賢	0x8CAB	2413	囧	0x9A9D	5193	鏢	0xE863	7936
軒	0x8CAC	2414	囧	0x9A9E	5194	鏢	0xE864	7937
遣	0x8CAD	2415	囧	0x9A9F	5201	鏢	0xE865	7938
鍵	0x8CAE	2416	國	0x9AA0	5202	鏢	0xE866	7939
陰	0x8CAF	2417	圍	0x9AA1	5203	鏢	0xE867	7940
顯	0x8CB0	2418	圓	0x9AA2	5204	鏢	0xE868	7941
驗	0x8CB1	2419	團	0x9AA3	5205	鏢	0xE869	7942
鹼	0x8CB2	2420	圖	0x9AA4	5206	鏢	0xE86A	7943
元	0x8CB3	2421	晉	0x9AA5	5207	鏢	0xE86B	7944
原	0x8CB4	2422	圓	0x9AA6	5208	鏢	0xE86C	7945
敵	0x8CB5	2423	坎	0x9AA7	5209	鏢	0xE86D	7946
幻	0x8CB6	2424	坏	0x9AA8	5210	鈔	0xE86E	7947
弦	0x8CB7	2425	屾	0x9AA9	5211	鏢	0xE86F	7948
減	0x8CB8	2426	坎	0x9AAA	5212	鏢	0xE870	7949
源	0x8CB9	2427	圻	0x9AAB	5213	鏢	0xE871	7950
玄	0x8CBA	2428	址	0x9AAC	5214	鏢	0xE872	7951
現	0x8CBB	2429	坏	0x9AAD	5215	鏢	0xE873	7952
絃	0x8CBC	2430	坩	0x9AAE	5216	鏢	0xE874	7953
舷	0x8CBD	2431	垂	0x9AAF	5217	鏢	0xE875	7954
言	0x8CBE	2432	垚	0x9AB0	5218	鏢	0xE876	7955
諺	0x8CBF	2433	坡	0x9AB1	5219	鏢	0xE877	7956
限	0x8CC0	2434	坩	0x9AB2	5220	門	0xE878	7957
乎	0x8CC1	2435	坩	0x9AB3	5221	問	0xE879	7958
個	0x8CC2	2436	垓	0x9AB4	5222	問	0xE87A	7959
古	0x8CC3	2437	垓	0x9AB5	5223	問	0xE87B	7960
呼	0x8CC4	2438	坩	0x9AB6	5224	問	0xE87C	7961
固	0x8CC5	2439	垓	0x9AB7	5225	問	0xE87D	7962
姑	0x8CC6	2440	坩	0x9AB8	5226	問	0xE87E	7963
孤	0x8CC7	2441	垓	0x9AB9	5227	問	0xE880	7964
己	0x8CC8	2442	埃	0x9ABA	5228	閨	0xE881	7965

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
庫	0x8CC9	2443	垧	0x9ABB	5229	閔	0xE882	7966
弧	0x8CCA	2444	埔	0x9ABC	5230	閏	0xE883	7967
戸	0x8CCB	2445	埒	0x9ABD	5231	閏	0xE884	7968
故	0x8CCC	2446	埒	0x9ABE	5232	閏	0xE885	7969
枯	0x8CCD	2447	壘	0x9ABF	5233	閏	0xE886	7970
湖	0x8CCE	2448	垧	0x9AC0	5234	閏	0xE887	7971
狐	0x8CCF	2449	埒	0x9AC1	5235	閏	0xE888	7972
糊	0x8CD0	2450	棚	0x9AC2	5236	潤	0xE889	7973
袴	0x8CD1	2451	埒	0x9AC3	5237	閏	0xE88A	7974
股	0x8CD2	2452	塙	0x9AC4	5238	閏	0xE88B	7975
胡	0x8CD3	2453	塙	0x9AC5	5239	閏	0xE88C	7976
菰	0x8CD4	2454	堡	0x9AC6	5240	閏	0xE88D	7977
虎	0x8CD5	2455	塙	0x9AC7	5241	閏	0xE88E	7978
誇	0x8CD6	2456	塙	0x9AC8	5242	閏	0xE88F	7979
跨	0x8CD7	2457	塙	0x9AC9	5243	關	0xE890	7980
鈷	0x8CD8	2458	毀	0x9ACA	5244	閏	0xE891	7981
雇	0x8CD9	2459	塙	0x9ACB	5245	閏	0xE892	7982
顧	0x8CDA	2460	埒	0x9ACC	5246	關	0xE893	7983
鼓	0x8CDB	2461	塙	0x9ACD	5247	阡	0xE894	7984
五	0x8CDC	2462	塙	0x9ACE	5248	阡	0xE895	7985
互	0x8CDD	2463	塙	0x9ACF	5249	阡	0xE896	7986
伍	0x8CDE	2464	墟	0x9AD0	5250	阡	0xE897	7987
午	0x8CDF	2465	塙	0x9AD1	5251	阡	0xE898	7988
吳	0x8CE0	2466	塙	0x9AD2	5252	陌	0xE899	7989
吾	0x8CE1	2467	塙	0x9AD3	5253	陌	0xE89A	7990
娛	0x8CE2	2468	塙	0x9AD4	5254	陌	0xE89B	7991
後	0x8CE3	2469	塙	0x9AD5	5255	陌	0xE89C	7992
御	0x8CE4	2470	墮	0x9AD6	5256	陝	0xE89D	7993
悟	0x8CE5	2471	壘	0x9AD7	5257	陝	0xE89E	7994
梧	0x8CE6	2472	壘	0x9AD8	5258	陝	0xE89F	8001
檣	0x8CE7	2473	壘	0x9AD9	5259	陟	0xE8A0	8002
瑚	0x8CE8	2474	墟	0x9ADA	5260	陟	0xE8A1	8003
碁	0x8CE9	2475	墟	0x9ADB	5261	陟	0xE8A2	8004
語	0x8CEA	2476	壘	0x9ADC	5262	陟	0xE8A3	8005
誤	0x8CEB	2477	壘	0x9ADD	5263	陟	0xE8A4	8006
護	0x8CEC	2478	壘	0x9ADE	5264	陟	0xE8A5	8007
醐	0x8CED	2479	墟	0x9ADF	5265	隕	0xE8A6	8008
乞	0x8CEE	2480	壘	0x9AE0	5266	隕	0xE8A7	8009
鯉	0x8CEF	2481	壯	0x9AE1	5267	險	0xE8A8	8010

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
交	0x8CF0	2482	壺	0x9AE2	5268	隧	0xE8A9	8011
佼	0x8CF1	2483	壹	0x9AE3	5269	隱	0xE8AA	8012
侯	0x8CF2	2484	壻	0x9AE4	5270	隲	0xE8AB	8013
候	0x8CF3	2485	壺	0x9AE5	5271	隰	0xE8AC	8014
倖	0x8CF4	2486	壽	0x9AE6	5272	隴	0xE8AD	8015
光	0x8CF5	2487	久	0x9AE7	5273	隶	0xE8AE	8016
公	0x8CF6	2488	又	0x9AE8	5274	隸	0xE8AF	8017
功	0x8CF7	2489	叴	0x9AE9	5275	佳	0xE8B0	8018
効	0x8CF8	2490	彡	0x9AEA	5276	睢	0xE8B1	8019
勾	0x8CF9	2491	夢	0x9AEB	5277	雋	0xE8B2	8020
厚	0x8CFA	2492	夥	0x9AEC	5278	雉	0xE8B3	8021
口	0x8CFB	2493	夬	0x9AED	5279	雍	0xE8B4	8022
向	0x8CFC	2494	夭	0x9AEE	5280	襍	0xE8B5	8023
后	0x8D40	2501	本	0x9AEF	5281	雜	0xE8B6	8024
喉	0x8D41	2502	夸	0x9AF0	5282	霍	0xE8B7	8025
坑	0x8D42	2503	夾	0x9AF1	5283	雕	0xE8B8	8026
垢	0x8D43	2504	奇	0x9AF2	5284	霍	0xE8B9	8027
好	0x8D44	2505	奕	0x9AF3	5285	霄	0xE8BA	8028
孔	0x8D45	2506	奂	0x9AF4	5286	霽	0xE8BB	8029
孝	0x8D46	2507	奎	0x9AF5	5287	霈	0xE8BC	8030
宏	0x8D47	2508	奚	0x9AF6	5288	霓	0xE8BD	8031
工	0x8D48	2509	奘	0x9AF7	5289	霏	0xE8BE	8032
巧	0x8D49	2510	奢	0x9AF8	5290	霑	0xE8BF	8033
巷	0x8D4A	2511	奠	0x9AF9	5291	霏	0xE8C0	8034
幸	0x8D4B	2512	奧	0x9AFA	5292	霖	0xE8C1	8035
広	0x8D4C	2513	獎	0x9AFB	5293	霰	0xE8C2	8036
庚	0x8D4D	2514	奩	0x9AFC	5294	霤	0xE8C3	8037
康	0x8D4E	2515	奸	0x9B40	5301	霽	0xE8C4	8038
弘	0x8D4F	2516	灼	0x9B41	5302	霰	0xE8C5	8039
恒	0x8D50	2517	妝	0x9B42	5303	霹	0xE8C6	8040
慌	0x8D51	2518	佞	0x9B43	5304	霽	0xE8C7	8041
抗	0x8D52	2519	佞	0x9B44	5305	霏	0xE8C8	8042
拘	0x8D53	2520	妣	0x9B45	5306	霑	0xE8C9	8043
控	0x8D54	2521	妲	0x9B46	5307	霽	0xE8CA	8044
攻	0x8D55	2522	姆	0x9B47	5308	霽	0xE8CB	8045
昂	0x8D56	2523	姨	0x9B48	5309	霽	0xE8CC	8046
晃	0x8D57	2524	姜	0x9B49	5310	霽	0xE8CD	8047
更	0x8D58	2525	妍	0x9B4A	5311	靜	0xE8CE	8048
杭	0x8D59	2526	姪	0x9B4B	5312	靠	0xE8CF	8049

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
校	0x8D5A	2527	姚	0x9B4C	5313	醜	0xE8D0	8050
梗	0x8D5B	2528	娥	0x9B4D	5314	醜	0xE8D1	8051
構	0x8D5C	2529	娟	0x9B4E	5315	醜	0xE8D2	8052
江	0x8D5D	2530	娑	0x9B4F	5316	勒	0xE8D3	8053
洪	0x8D5E	2531	娜	0x9B50	5317	鞞	0xE8D4	8054
浩	0x8D5F	2532	娉	0x9B51	5318	鞞	0xE8D5	8055
港	0x8D60	2533	甥	0x9B52	5319	鞞	0xE8D6	8056
溝	0x8D61	2534	婀	0x9B53	5320	鞞	0xE8D7	8057
甲	0x8D62	2535	姪	0x9B54	5321	鞞	0xE8D8	8058
皇	0x8D63	2536	婉	0x9B55	5322	鞞	0xE8D9	8059
硬	0x8D64	2537	娠	0x9B56	5323	鞞	0xE8DA	8060
稿	0x8D65	2538	娶	0x9B57	5324	鞞	0xE8DB	8061
糠	0x8D66	2539	婢	0x9B58	5325	鞋	0xE8DC	8062
紅	0x8D67	2540	婪	0x9B59	5326	鞞	0xE8DD	8063
紘	0x8D68	2541	媚	0x9B5A	5327	鞞	0xE8DE	8064
絞	0x8D69	2542	媪	0x9B5B	5328	鞞	0xE8DF	8065
綱	0x8D6A	2543	媾	0x9B5C	5329	鞞	0xE8E0	8066
耕	0x8D6B	2544	媯	0x9B5D	5330	鞞	0xE8E1	8067
考	0x8D6C	2545	嫂	0x9B5E	5331	鞞	0xE8E2	8068
肯	0x8D6D	2546	媽	0x9B5F	5332	鞞	0xE8E3	8069
肱	0x8D6E	2547	媽	0x9B60	5333	鞞	0xE8E4	8070
腔	0x8D6F	2548	嫗	0x9B61	5334	鞞	0xE8E5	8071
膏	0x8D70	2549	嫦	0x9B62	5335	鞞	0xE8E6	8072
航	0x8D71	2550	嫩	0x9B63	5336	鞞	0xE8E7	8073
荒	0x8D72	2551	嫖	0x9B64	5337	韋	0xE8E8	8074
行	0x8D73	2552	嫖	0x9B65	5338	韋	0xE8E9	8075
衡	0x8D74	2553	嫖	0x9B66	5339	韋	0xE8EA	8076
講	0x8D75	2554	嬌	0x9B67	5340	齋	0xE8EB	8077
貢	0x8D76	2555	嬋	0x9B68	5341	壘	0xE8EC	8078
購	0x8D77	2556	嬖	0x9B69	5342	竟	0xE8ED	8079
郊	0x8D78	2557	嬖	0x9B6A	5343	韶	0xE8EE	8080
酵	0x8D79	2558	嫩	0x9B6B	5344	韵	0xE8EF	8081
鉍	0x8D7A	2559	嬪	0x9B6C	5345	頰	0xE8F0	8082
砒	0x8D7B	2560	嬪	0x9B6D	5346	頰	0xE8F1	8083
鋼	0x8D7C	2561	嬪	0x9B6E	5347	頰	0xE8F2	8084
閤	0x8D7D	2562	孃	0x9B6F	5348	頰	0xE8F3	8085
降	0x8D7E	2563	孃	0x9B70	5349	頰	0xE8F4	8086
項	0x8D80	2564	孃	0x9B71	5350	頰	0xE8F5	8087
香	0x8D81	2565	子	0x9B72	5351	頰	0xE8F6	8088

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
高	0x8D82	2566	孕	0x9B73	5352	穎	0xE8F7	8089
鴻	0x8D83	2567	孚	0x9B74	5353	顏	0xE8F8	8090
剛	0x8D84	2568	孛	0x9B75	5354	顛	0xE8F9	8091
劫	0x8D85	2569	孛	0x9B76	5355	顛	0xE8FA	8092
号	0x8D86	2570	孩	0x9B77	5356	顯	0xE8FB	8093
合	0x8D87	2571	孰	0x9B78	5357	顰	0xE8FC	8094
壕	0x8D88	2572	孛	0x9B79	5358	顛	0xE940	8101
拷	0x8D89	2573	孵	0x9B7A	5359	顛	0xE941	8102
濠	0x8D8A	2574	學	0x9B7B	5360	顛	0xE942	8103
豪	0x8D8B	2575	孛	0x9B7C	5361	颯	0xE943	8104
轟	0x8D8C	2576	孺	0x9B7D	5362	颯	0xE944	8105
趨	0x8D8D	2577	宀	0x9B7E	5363	颯	0xE945	8106
克	0x8D8E	2578	它	0x9B80	5364	颯	0xE946	8107
刻	0x8D8F	2579	宦	0x9B81	5365	飄	0xE947	8108
告	0x8D90	2580	宸	0x9B82	5366	颯	0xE948	8109
国	0x8D91	2581	冤	0x9B83	5367	颯	0xE949	8110
穀	0x8D92	2582	寇	0x9B84	5368	餛	0xE94A	8111
酷	0x8D93	2583	雀	0x9B85	5369	餛	0xE94B	8112
鵠	0x8D94	2584	寔	0x9B86	5370	餃	0xE94C	8113
黑	0x8D95	2585	寐	0x9B87	5371	餉	0xE94D	8114
獄	0x8D96	2586	寤	0x9B88	5372	餛	0xE94E	8115
漉	0x8D97	2587	實	0x9B89	5373	舖	0xE94F	8116
腰	0x8D98	2588	寢	0x9B8A	5374	餘	0xE950	8117
甌	0x8D99	2589	寔	0x9B8B	5375	餛	0xE951	8118
忽	0x8D9A	2590	寥	0x9B8C	5376	飭	0xE952	8119
惚	0x8D9B	2591	寫	0x9B8D	5377	餞	0xE953	8120
骨	0x8D9C	2592	寰	0x9B8E	5378	餞	0xE954	8121
狍	0x8D9D	2593	寶	0x9B8F	5379	餅	0xE955	8122
込	0x8D9E	2594	寶	0x9B90	5380	餛	0xE956	8123
此	0x8D9F	2601	尅	0x9B91	5381	餞	0xE957	8124
頃	0x8DA0	2602	將	0x9B92	5382	餛	0xE958	8125
今	0x8DA1	2603	專	0x9B93	5383	餛	0xE959	8126
困	0x8DA2	2604	對	0x9B94	5384	餛	0xE95A	8127
坤	0x8DA3	2605	尔	0x9B95	5385	饅	0xE95B	8128
墾	0x8DA4	2606	尅	0x9B96	5386	饅	0xE95C	8129
婚	0x8DA5	2607	尅	0x9B97	5387	饅	0xE95D	8130
恨	0x8DA6	2608	尅	0x9B98	5388	饅	0xE95E	8131
懇	0x8DA7	2609	尸	0x9B99	5389	饅	0xE95F	8132
昏	0x8DA8	2610	尹	0x9B9A	5390	饅	0xE960	8133



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
昆	0x8DA9	2611	屁	0x9B9B	5391	饌	0xE961	8134
根	0x8DAA	2612	屆	0x9B9C	5392	饜	0xE962	8135
梱	0x8DAB	2613	屎	0x9B9D	5393	馗	0xE963	8136
混	0x8DAC	2614	肩	0x9B9E	5394	馘	0xE964	8137
痕	0x8DAD	2615	屐	0x9B9F	5401	馥	0xE965	8138
紺	0x8DAE	2616	屏	0x9BA0	5402	馭	0xE966	8139
良	0x8DAF	2617	孱	0x9BA1	5403	馮	0xE967	8140
魂	0x8DB0	2618	屬	0x9BA2	5404	馱	0xE968	8141
些	0x8DB1	2619	屮	0x9BA3	5405	馱	0xE969	8142
佐	0x8DB2	2620	屮	0x9BA4	5406	馱	0xE96A	8143
叉	0x8DB3	2621	𡵏	0x9BA5	5407	駝	0xE96B	8144
峻	0x8DB4	2622	屹	0x9BA6	5408	駘	0xE96C	8145
嵯	0x8DB5	2623	岌	0x9BA7	5409	駑	0xE96D	8146
左	0x8DB6	2624	岑	0x9BA8	5410	駑	0xE96E	8147
差	0x8DB7	2625	岔	0x9BA9	5411	駑	0xE96F	8148
查	0x8DB8	2626	岌	0x9BAA	5412	駑	0xE970	8149
沙	0x8DB9	2627	岫	0x9BAB	5413	駑	0xE971	8150
磋	0x8DBA	2628	岷	0x9BAC	5414	駑	0xE972	8151
砂	0x8DBB	2629	岫	0x9BAD	5415	駑	0xE973	8152
詐	0x8DBC	2630	岷	0x9BAE	5416	駑	0xE974	8153
鎖	0x8DBD	2631	岷	0x9BAF	5417	駑	0xE975	8154
嵯	0x8DBE	2632	岷	0x9BB0	5418	駑	0xE976	8155
坐	0x8DBF	2633	岫	0x9BB1	5419	駑	0xE977	8156
座	0x8DC0	2634	岫	0x9BB2	5420	駑	0xE978	8157
挫	0x8DC1	2635	峙	0x9BB3	5421	駑	0xE979	8158
債	0x8DC2	2636	岷	0x9BB4	5422	駑	0xE97A	8159
催	0x8DC3	2637	峽	0x9BB5	5423	駑	0xE97B	8160
再	0x8DC4	2638	岷	0x9BB6	5424	駑	0xE97C	8161
最	0x8DC5	2639	岫	0x9BB7	5425	駑	0xE97D	8162
哉	0x8DC6	2640	岷	0x9BB8	5426	駑	0xE97E	8163
塞	0x8DC7	2641	岫	0x9BB9	5427	駑	0xE980	8164
妻	0x8DC8	2642	華	0x9BBA	5428	駑	0xE981	8165
宰	0x8DC9	2643	岷	0x9BBB	5429	駑	0xE982	8166
彩	0x8DCA	2644	崗	0x9BBC	5430	駑	0xE983	8167
才	0x8DCB	2645	岷	0x9BBD	5431	駑	0xE984	8168
採	0x8DCC	2646	崮	0x9BBE	5432	駑	0xE985	8169
裁	0x8DCD	2647	岷	0x9BBF	5433	駑	0xE986	8170
歲	0x8DCE	2648	崮	0x9BC0	5434	駑	0xE987	8171
濟	0x8DCF	2649	崔	0x9BC1	5435	駑	0xE988	8172

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
災	0x8DD0	2650	崢	0x9BC2	5436	驩	0xE989	8173
采	0x8DD1	2651	峻	0x9BC3	5437	轟	0xE98A	8174
犀	0x8DD2	2652	崙	0x9BC4	5438	驪	0xE98B	8175
碎	0x8DD3	2653	崙	0x9BC5	5439	骭	0xE98C	8176
砦	0x8DD4	2654	嵌	0x9BC6	5440	骹	0xE98D	8177
祭	0x8DD5	2655	岳	0x9BC7	5441	骺	0xE98E	8178
齋	0x8DD6	2656	嶠	0x9BC8	5442	骻	0xE98F	8179
細	0x8DD7	2657	嶂	0x9BC9	5443	骽	0xE990	8180
菜	0x8DD8	2658	崑	0x9BCA	5444	骿	0xE991	8181
裁	0x8DD9	2659	差	0x9BCB	5445	骻	0xE992	8182
載	0x8DDA	2660	嶠	0x9BCC	5446	體	0xE993	8183
際	0x8ddb	2661	嶇	0x9BCD	5447	譟	0xE994	8184
劑	0x8DDC	2662	嶈	0x9BCE	5448	髟	0xE995	8185
在	0x8DDD	2663	嶉	0x9BCF	5449	髡	0xE996	8186
材	0x8DDE	2664	嶊	0x9BD0	5450	髣	0xE997	8187
罪	0x8DDF	2665	嶌	0x9BD1	5451	髥	0xE998	8188
財	0x8DE0	2666	嶍	0x9BD2	5452	髧	0xE999	8189
冚	0x8DE1	2667	嶎	0x9BD3	5453	髩	0xE99A	8190
坂	0x8DE2	2668	嶏	0x9BD4	5454	髪	0xE99B	8191
阪	0x8DE3	2669	嶐	0x9BD5	5455	髫	0xE99C	8192
堺	0x8DE4	2670	嶑	0x9BD6	5456	髯	0xE99D	8193
榊	0x8DE5	2671	嶒	0x9BD7	5457	髯	0xE99E	8194
肴	0x8DE6	2672	嶓	0x9BD8	5458	髯	0xE99F	8201
咲	0x8DE7	2673	嶔	0x9BD9	5459	髯	0xE9A0	8202
崎	0x8DE8	2674	嶕	0x9BDA	5460	髯	0xE9A1	8203
埼	0x8DE9	2675	嶖	0x9BDB	5461	髯	0xE9A2	8204
碕	0x8DEA	2676	嶗	0x9BDC	5462	髯	0xE9A3	8205
鷺	0x8DEB	2677	嶘	0x9BDD	5463	髯	0xE9A4	8206
作	0x8DEC	2678	巫	0x9BDE	5464	鬣	0xE9A5	8207
削	0x8DED	2679	巳	0x9BDF	5465	鬥	0xE9A6	8208
咋	0x8DEE	2680	卮	0x9BE0	5466	鬮	0xE9A7	8209
搾	0x8DEF	2681	帚	0x9BE1	5467	鬮	0xE9A8	8210
昨	0x8DF0	2682	帚	0x9BE2	5468	鬮	0xE9A9	8211
朔	0x8DF1	2683	帙	0x9BE3	5469	鬮	0xE9AA	8212
柵	0x8DF2	2684	帙	0x9BE4	5470	鬮	0xE9AB	8213
窄	0x8DF3	2685	帙	0x9BE5	5471	鬮	0xE9AC	8214
策	0x8DF4	2686	帶	0x9BE6	5472	鬮	0xE9AD	8215
索	0x8DF5	2687	帷	0x9BE7	5473	魄	0xE9AE	8216
錯	0x8DF6	2688	幄	0x9BE8	5474	魃	0xE9AF	8217

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
桜	0x8DF7	2689	嶂	0x9BE9	5475	魏	0xE9B0	8218
鮭	0x8DF8	2690	嶝	0x9BEA	5476	颯	0xE9B1	8219
笹	0x8DF9	2691	嶞	0x9BEB	5477	颯	0xE9B2	8220
匙	0x8DFA	2692	嶠	0x9BEC	5478	颯	0xE9B3	8221
冊	0x8DFB	2693	嶡	0x9BED	5479	颯	0xE9B4	8222
刷	0x8DFC	2694	嶢	0x9BEE	5480	鮐	0xE9B5	8223
察	0x8E40	2701	嶣	0x9BEF	5481	鮐	0xE9B6	8224
拶	0x8E41	2702	幣	0x9BF0	5482	鮐	0xE9B7	8225
撮	0x8E42	2703	幫	0x9BF1	5483	鮐	0xE9B8	8226
擦	0x8E43	2704	幵	0x9BF2	5484	鮐	0xE9B9	8227
札	0x8E44	2705	井	0x9BF3	5485	鮐	0xE9BA	8228
殺	0x8E45	2706	幺	0x9BF4	5486	鮐	0xE9BB	8229
薩	0x8E46	2707	麼	0x9BF5	5487	鮐	0xE9BC	8230
雜	0x8E47	2708	广	0x9BF6	5488	鮐	0xE9BD	8231
阜	0x8E48	2709	庠	0x9BF7	5489	鮐	0xE9BE	8232
鯖	0x8E49	2710	廁	0x9BF8	5490	鮐	0xE9BF	8233
捌	0x8E4A	2711	廂	0x9BF9	5491	鮐	0xE9C0	8234
鯖	0x8E4B	2712	廈	0x9BFA	5492	鮐	0xE9C1	8235
鮫	0x8E4C	2713	廐	0x9BFB	5493	鮐	0xE9C2	8236
皿	0x8E4D	2714	廐	0x9BFC	5494	鮐	0xE9C3	8237
晒	0x8E4E	2715	廖	0x9C40	5501	鮐	0xE9C4	8238
三	0x8E4F	2716	廣	0x9C41	5502	鮐	0xE9C5	8239
傘	0x8E50	2717	廐	0x9C42	5503	鮐	0xE9C6	8240
參	0x8E51	2718	廚	0x9C43	5504	鮐	0xE9C7	8241
山	0x8E52	2719	廐	0x9C44	5505	鮐	0xE9C8	8242
慘	0x8E53	2720	廢	0x9C45	5506	鮐	0xE9C9	8243
撒	0x8E54	2721	廐	0x9C46	5507	鮐	0xE9CA	8244
散	0x8E55	2722	廐	0x9C47	5508	鮐	0xE9CB	8245
棧	0x8E56	2723	廐	0x9C48	5509	鮐	0xE9CC	8246
燦	0x8E57	2724	廐	0x9C49	5510	鮐	0xE9CD	8247
珊	0x8E58	2725	廐	0x9C4A	5511	鮐	0xE9CE	8248
産	0x8E59	2726	廐	0x9C4B	5512	鮐	0xE9CF	8249
算	0x8E5A	2727	廐	0x9C4C	5513	鮐	0xE9D0	8250
纂	0x8E5B	2728	廐	0x9C4D	5514	鮐	0xE9D1	8251
蚕	0x8E5C	2729	廐	0x9C4E	5515	鮐	0xE9D2	8252
讚	0x8E5D	2730	廐	0x9C4F	5516	鮐	0xE9D3	8253
賛	0x8E5E	2731	弃	0x9C50	5517	鮐	0xE9D4	8254
酸	0x8E5F	2732	犇	0x9C51	5518	鮐	0xE9D5	8255
餐	0x8E60	2733	犇	0x9C52	5519	鮐	0xE9D6	8256

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
斬	0x8E61	2734	彘	0x9C53	5520	鯨	0xE9D7	8257
暫	0x8E62	2735	弋	0x9C54	5521	鯨	0xE9D8	8258
殘	0x8E63	2736	弑	0x9C55	5522	鯨	0xE9D9	8259
仕	0x8E64	2737	亘	0x9C56	5523	鯨	0xE9DA	8260
仔	0x8E65	2738	弩	0x9C57	5524	鯨	0xE9DB	8261
伺	0x8E66	2739	弭	0x9C58	5525	鯨	0xE9DC	8262
使	0x8E67	2740	彌	0x9C59	5526	鯨	0xE9DD	8263
刺	0x8E68	2741	弼	0x9C5A	5527	鯨	0xE9DE	8264
司	0x8E69	2742	彈	0x9C5B	5528	鯨	0xE9DF	8265
史	0x8E6A	2743	彌	0x9C5C	5529	鯨	0xE9E0	8266
嗣	0x8E6B	2744	彎	0x9C5D	5530	鯨	0xE9E1	8267
四	0x8E6C	2745	弯	0x9C5E	5531	鯨	0xE9E2	8268
士	0x8E6D	2746	亘	0x9C5F	5532	鯨	0xE9E3	8269
始	0x8E6E	2747	彘	0x9C60	5533	鯨	0xE9E4	8270
姉	0x8E6F	2748	彘	0x9C61	5534	鯨	0xE9E5	8271
姿	0x8E70	2749	彘	0x9C62	5535	鯨	0xE9E6	8272
子	0x8E71	2750	彘	0x9C63	5536	鯨	0xE9E7	8273
屍	0x8E72	2751	彭	0x9C64	5537	鯨	0xE9E8	8274
市	0x8E73	2752	彘	0x9C65	5538	鯨	0xE9E9	8275
師	0x8E74	2753	衍	0x9C66	5539	鴉	0xE9EA	8276
志	0x8E75	2754	往	0x9C67	5540	鴉	0xE9EB	8277
思	0x8E76	2755	徂	0x9C68	5541	鴉	0xE9EC	8278
指	0x8E77	2756	佛	0x9C69	5542	鴉	0xE9ED	8279
支	0x8E78	2757	徊	0x9C6A	5543	鯨	0xE9EE	8280
孜	0x8E79	2758	很	0x9C6B	5544	鴉	0xE9EF	8281
斯	0x8E7A	2759	徑	0x9C6C	5545	鴉	0xE9F0	8282
施	0x8E7B	2760	徇	0x9C6D	5546	鴉	0xE9F1	8283
旨	0x8E7C	2761	從	0x9C6E	5547	鴉	0xE9F2	8284
枝	0x8E7D	2762	徙	0x9C6F	5548	鴉	0xE9F3	8285
止	0x8E7E	2763	徘	0x9C70	5549	鴉	0xE9F4	8286
死	0x8E80	2764	徠	0x9C71	5550	鴉	0xE9F5	8287
氏	0x8E81	2765	徨	0x9C72	5551	鴉	0xE9F6	8288
獅	0x8E82	2766	徻	0x9C73	5552	鴉	0xE9F7	8289
祉	0x8E83	2767	徼	0x9C74	5553	鴉	0xE9F8	8290
私	0x8E84	2768	忖	0x9C75	5554	鴉	0xE9F9	8291
糸	0x8E85	2769	忖	0x9C76	5555	鴉	0xE9FA	8292
紙	0x8E86	2770	忖	0x9C77	5556	鴉	0xE9FB	8293
紫	0x8E87	2771	忖	0x9C78	5557	鴉	0xE9FC	8294
肢	0x8E88	2772	忱	0x9C79	5558	鴉	0xEA40	8301

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
脂	0x8E89	2773	忝	0x9C7A	5559	鶯	0xEA41	8302
至	0x8E8A	2774	惠	0x9C7B	5560	鶯	0xEA42	8303
視	0x8E8B	2775	忿	0x9C7C	5561	鶯	0xEA43	8304
詞	0x8E8C	2776	怡	0x9C7D	5562	鶯	0xEA44	8305
詩	0x8E8D	2777	恠	0x9C7E	5563	鶯	0xEA45	8306
試	0x8E8E	2778	怙	0x9C80	5564	鶯	0xEA46	8307
誌	0x8E8F	2779	恂	0x9C81	5565	鶯	0xEA47	8308
諮	0x8E90	2780	恠	0x9C82	5566	鶯	0xEA48	8309
資	0x8E91	2781	恠	0x9C83	5567	鶯	0xEA49	8310
賜	0x8E92	2782	忽	0x9C84	5568	鶯	0xEA4A	8311
雌	0x8E93	2783	怛	0x9C85	5569	鶯	0xEA4B	8312
飼	0x8E94	2784	怕	0x9C86	5570	鶯	0xEA4C	8313
齒	0x8E95	2785	怫	0x9C87	5571	鶯	0xEA4D	8314
事	0x8E96	2786	怦	0x9C88	5572	鶯	0xEA4E	8315
似	0x8E97	2787	快	0x9C89	5573	鶯	0xEA4F	8316
侍	0x8E98	2788	咏	0x9C8A	5574	鶯	0xEA50	8317
兕	0x8E99	2789	恚	0x9C8B	5575	鶯	0xEA51	8318
字	0x8E9A	2790	恚	0x9C8C	5576	鶯	0xEA52	8319
寺	0x8E9B	2791	恪	0x9C8D	5577	鶯	0xEA53	8320
慈	0x8E9C	2792	恣	0x9C8E	5578	鶯	0xEA54	8321
持	0x8E9D	2793	恂	0x9C8F	5579	鶯	0xEA55	8322
時	0x8E9E	2794	協	0x9C90	5580	鶯	0xEA56	8323
次	0x8E9F	2801	恆	0x9C91	5581	鶯	0xEA57	8324
滋	0x8EA0	2802	恍	0x9C92	5582	鶯	0xEA58	8325
治	0x8EA1	2803	恣	0x9C93	5583	鶯	0xEA59	8326
爾	0x8EA2	2804	恃	0x9C94	5584	鶯	0xEA5A	8327
璽	0x8EA3	2805	恤	0x9C95	5585	鶯	0xEA5B	8328
痔	0x8EA4	2806	恂	0x9C96	5586	鶯	0xEA5C	8329
磁	0x8EA5	2807	恬	0x9C97	5587	鶯	0xEA5D	8330
示	0x8EA6	2808	恫	0x9C98	5588	鶯	0xEA5E	8331
而	0x8EA7	2809	恚	0x9C99	5589	鶯	0xEA5F	8332
耳	0x8EA8	2810	悃	0x9C9A	5590	鶯	0xEA60	8333
自	0x8EA9	2811	悍	0x9C9B	5591	鶯	0xEA61	8334
蒔	0x8EAA	2812	惧	0x9C9C	5592	鹵	0xEA62	8335
辞	0x8EAB	2813	悃	0x9C9D	5593	鹵	0xEA63	8336
汐	0x8EAC	2814	悚	0x9C9E	5594	鹽	0xEA64	8337
鹿	0x8EAD	2815	悄	0x9C9F	5601	麤	0xEA65	8338
式	0x8EAE	2816	悛	0x9CA0	5602	麤	0xEA66	8339
識	0x8EAF	2817	悖	0x9CA1	5603	麤	0xEA67	8340

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
嶋	0x8EB0	2818	悅	0x9CA2	5604	麩	0xEA68	8341
竺	0x8EB1	2819	悒	0x9CA3	5605	麒	0xEA69	8342
軸	0x8EB2	2820	悒	0x9CA4	5606	麩	0xEA6A	8343
穴	0x8EB3	2821	悒	0x9CA5	5607	麩	0xEA6B	8344
雫	0x8EB4	2822	惡	0x9CA6	5608	麩	0xEA6C	8345
七	0x8EB5	2823	悒	0x9CA7	5609	麥	0xEA6D	8346
叱	0x8EB6	2824	惠	0x9CA8	5610	麩	0xEA6E	8347
執	0x8EB7	2825	倦	0x9CA9	5611	麩	0xEA6F	8348
失	0x8EB8	2826	悴	0x9CAA	5612	麩	0xEA70	8349
嫉	0x8EB9	2827	悴	0x9CAB	5613	麩	0xEA71	8350
室	0x8EBA	2828	悽	0x9CAC	5614	靡	0xEA72	8351
悉	0x8EBB	2829	惆	0x9CAD	5615	覺	0xEA73	8352
湿	0x8EBC	2830	悵	0x9CAE	5616	黎	0xEA74	8353
漆	0x8EBD	2831	惘	0x9CAF	5617	黏	0xEA75	8354
疾	0x8EBE	2832	愠	0x9CB0	5618	藜	0xEA76	8355
質	0x8EBF	2833	愕	0x9CB1	5619	黔	0xEA77	8356
実	0x8EC0	2834	愆	0x9CB2	5620	黜	0xEA78	8357
蔀	0x8EC1	2835	惶	0x9CB3	5621	黠	0xEA79	8358
篠	0x8EC2	2836	愬	0x9CB4	5622	黝	0xEA7A	8359
悞	0x8EC3	2837	愬	0x9CB5	5623	黠	0xEA7B	8360
柴	0x8EC4	2838	喘	0x9CB6	5624	黠	0xEA7C	8361
芝	0x8EC5	2839	惶	0x9CB7	5625	黨	0xEA7D	8362
屢	0x8EC6	2840	愬	0x9CB8	5626	黠	0xEA7E	8363
蕊	0x8EC7	2841	愬	0x9CB9	5627	黠	0xEA80	8364
縞	0x8EC8	2842	惻	0x9CBA	5628	縶	0xEA81	8365
舍	0x8EC9	2843	惱	0x9CBB	5629	黠	0xEA82	8366
写	0x8ECA	2844	愬	0x9CBC	5630	耑	0xEA83	8367
射	0x8ECB	2845	復	0x9CBD	5631	黠	0xEA84	8368
捨	0x8ECC	2846	愬	0x9CBE	5632	黠	0xEA85	8369
赦	0x8ECD	2847	愬	0x9CBF	5633	黠	0xEA86	8370
斜	0x8ECE	2848	愬	0x9CC0	5634	鼈	0xEA87	8371
煮	0x8ECF	2849	愧	0x9CC1	5635	鼈	0xEA88	8372
社	0x8ED0	2850	慊	0x9CC2	5636	鼓	0xEA89	8373
紗	0x8ED1	2851	愿	0x9CC3	5637	鑿	0xEA8A	8374
者	0x8ED2	2852	慎	0x9CC4	5638	胤	0xEA8B	8375
謝	0x8ED3	2853	愬	0x9CC5	5639	鼈	0xEA8C	8376
車	0x8ED4	2854	愬	0x9CC6	5640	鼈	0xEA8D	8377
遮	0x8ED5	2855	博	0x9CC7	5641	齊	0xEA8E	8378
蛇	0x8ED6	2856	憑	0x9CC8	5642	齒	0xEA8F	8379

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
邪	0x8ED7	2857	慄	0x9CC9	5643	齷	0xEA90	8380
借	0x8ED8	2858	慳	0x9CCA	5644	齶	0xEA91	8381
勺	0x8ED9	2859	慫	0x9CCB	5645	齷	0xEA92	8382
尺	0x8EDA	2860	慘	0x9CCC	5646	齸	0xEA93	8383
杓	0x8EDB	2861	慙	0x9CCD	5647	齹	0xEA94	8384
灼	0x8EDC	2862	慚	0x9CCE	5648	齻	0xEA95	8385
爵	0x8EDD	2863	慜	0x9CCF	5649	齼	0xEA96	8386
酌	0x8EDE	2864	慝	0x9CD0	5650	齽	0xEA97	8387
积	0x8EDF	2865	傷	0x9CD1	5651	齾	0xEA98	8388
錫	0x8EE0	2866	慥	0x9CD2	5652	齿	0xEA99	8389
若	0x8EE1	2867	慦	0x9CD3	5653	齐	0xEA9A	8390
寂	0x8EE2	2868	慧	0x9CD4	5654	齑	0xEA9B	8391
弱	0x8EE3	2869	慨	0x9CD5	5655	齒	0xEA9C	8392
惹	0x8EE4	2870	慯	0x9CD6	5656	齓	0xEA9D	8393
主	0x8EE5	2871	慰	0x9CD7	5657	齔	0xEA9E	8394
取	0x8EE6	2872	慱	0x9CD8	5658	齕	0xEA9F	8401
守	0x8EE7	2873	慱	0x9CD9	5659	齖	0xEAA0	8402
手	0x8EE8	2874	慱	0x9CDA	5660	齗	0xEAA1	8403
朱	0x8EE9	2875	慱	0x9CDB	5661	齘	0xEAA2	8404
殊	0x8EEA	2876	慱	0x9CDC	5662	齙	0xEAA3	8405
狩	0x8EEB	2877	慱	0x9CDD	5663	齚	0xEAA4	8406
珠	0x8EEC	2878	慱	0x9CDE	5664	齛	0xED40	8901
種	0x8EED	2879	慱	0x9CDF	5665	齜	0xED41	8902
腫	0x8EEE	2880	慱	0x9CE0	5666	齝	0xED42	8903
趣	0x8EEF	2881	慱	0x9CE1	5667	齞	0xED43	8904
酒	0x8EF0	2882	慱	0x9CE2	5668	齟	0xED44	8905
首	0x8EF1	2883	慱	0x9CE3	5669	齠	0xED45	8906
儒	0x8EF2	2884	慱	0x9CE4	5670	齡	0xED46	8907
受	0x8EF3	2885	懷	0x9CE5	5671	昱	0xED47	8908
呪	0x8EF4	2886	懈	0x9CE6	5672	精	0xED48	8909
寿	0x8EF5	2887	勲	0x9CE7	5673	銀	0xED49	8910
授	0x8EF6	2888	燥	0x9CE8	5674	昇	0xED4A	8911
樹	0x8EF7	2889	愴	0x9CE9	5675	殍	0xED4B	8912
綬	0x8EF8	2890	懋	0x9CEA	5676	丨	0xED4C	8913
需	0x8EF9	2891	穉	0x9CEB	5677	乞	0xED4D	8914
囚	0x8EFA	2892	懷	0x9CEC	5678	任	0xED4E	8915
収	0x8EFB	2893	懦	0x9CED	5679	佗	0xED4F	8916
周	0x8EFC	2894	懣	0x9CEE	5680	仔	0xED50	8917
宗	0x8F40	2901	懶	0x9CEF	5681	但	0xED51	8918

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
就	0x8F41	2902	懺	0x9CF0	5682	必	0xED52	8919
州	0x8F42	2903	懺	0x9CF1	5683	倭	0xED53	8920
修	0x8F43	2904	懿	0x9CF2	5684	恍	0xED54	8921
愁	0x8F44	2905	懼	0x9CF3	5685	恂	0xED55	8922
拾	0x8F45	2906	懼	0x9CF4	5686	侔	0xED56	8923
洲	0x8F46	2907	懾	0x9CF5	5687	俚	0xED57	8924
秀	0x8F47	2908	戀	0x9CF6	5688	僕	0xED58	8925
秋	0x8F48	2909	戈	0x9CF7	5689	捷	0xED59	8926
終	0x8F49	2910	戍	0x9CF8	5690	僂	0xED5A	8927
續	0x8F4A	2911	戍	0x9CF9	5691	惊	0xED5B	8928
習	0x8F4B	2912	戍	0x9CFA	5692	僇	0xED5C	8929
臭	0x8F4C	2913	莛	0x9CFB	5693	僕	0xED5D	8930
舟	0x8F4D	2914	夏	0x9CFC	5694	備	0xED5E	8931
蒐	0x8F4E	2915	憂	0x9D40	5701	僣	0xED5F	8932
衆	0x8F4F	2916	戡	0x9D41	5702	僣	0xED60	8933
襲	0x8F50	2917	截	0x9D42	5703	僣	0xED61	8934
讐	0x8F51	2918	戮	0x9D43	5704	允	0xED62	8935
蹴	0x8F52	2919	戰	0x9D44	5705	戇	0xED63	8936
輯	0x8F53	2920	戲	0x9D45	5706	冃	0xED64	8937
週	0x8F54	2921	戮	0x9D46	5707	冷	0xED65	8938
酋	0x8F55	2922	扁	0x9D47	5708	鼠	0xED66	8939
酬	0x8F56	2923	扎	0x9D48	5709	荔	0xED67	8940
集	0x8F57	2924	扞	0x9D49	5710	尢	0xED68	8941
醜	0x8F58	2925	扣	0x9D4A	5711	荔	0xED69	8942
什	0x8F59	2926	扛	0x9D4B	5712	勅	0xED6A	8943
住	0x8F5A	2927	扞	0x9D4C	5713	勅	0xED6B	8944
充	0x8F5B	2928	扞	0x9D4D	5714	勻	0xED6C	8945
十	0x8F5C	2929	扼	0x9D4E	5715	匆	0xED6D	8946
從	0x8F5D	2930	扞	0x9D4F	5716	匡	0xED6E	8947
戎	0x8F5E	2931	抉	0x9D50	5717	邵	0xED6F	8948
柔	0x8F5F	2932	找	0x9D51	5718	匡	0xED70	8949
汁	0x8F60	2933	杼	0x9D52	5719	厲	0xED71	8950
洪	0x8F61	2934	抓	0x9D53	5720	玦	0xED72	8951
獸	0x8F62	2935	抖	0x9D54	5721	雙	0xED73	8952
縱	0x8F63	2936	拔	0x9D55	5722	咤	0xED74	8953
重	0x8F64	2937	扞	0x9D56	5723	味	0xED75	8954
銃	0x8F65	2938	杯	0x9D57	5724	咩	0xED76	8955
叔	0x8F66	2939	拗	0x9D58	5725	駮	0xED77	8956
夙	0x8F67	2940	柑	0x9D59	5726	喆	0xED78	8957



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
宿	0x8F68	2941	坤	0x9D5A	5727	逕	0xED79	8958
淑	0x8F69	2942	拏	0x9D5B	5728	坦	0xED7A	8959
祝	0x8F6A	2943	拿	0x9D5C	5729	垠	0xED7B	8960
縮	0x8F6B	2944	拆	0x9D5D	5730	垠	0xED7C	8961
肅	0x8F6C	2945	擔	0x9D5E	5731	垠	0xED7D	8962
塾	0x8F6D	2946	拈	0x9D5F	5732	垠	0xED7E	8963
熟	0x8F6E	2947	拜	0x9D60	5733	塚	0xED80	8964
出	0x8F6F	2948	拌	0x9D61	5734	增	0xED81	8965
術	0x8F70	2949	拊	0x9D62	5735	壩	0xED82	8966
述	0x8F71	2950	拂	0x9D63	5736	叁	0xED83	8967
俊	0x8F72	2951	拇	0x9D64	5737	麥	0xED84	8968
峻	0x8F73	2952	拋	0x9D65	5738	萌	0xED85	8969
春	0x8F74	2953	拉	0x9D66	5739	裔	0xED86	8970
瞬	0x8F75	2954	格	0x9D67	5740	萌	0xED87	8971
竣	0x8F76	2955	拈	0x9D68	5741	姪	0xED88	8972
舜	0x8F77	2956	拱	0x9D69	5742	妹	0xED89	8973
駿	0x8F78	2957	翊	0x9D6A	5743	孖	0xED8A	8974
准	0x8F79	2958	挂	0x9D6B	5744	窠	0xED8B	8975
循	0x8F7A	2959	挈	0x9D6C	5745	甯	0xED8C	8976
旬	0x8F7B	2960	拯	0x9D6D	5746	寘	0xED8D	8977
楯	0x8F7C	2961	拈	0x9D6E	5747	寬	0xED8E	8978
殉	0x8F7D	2962	捐	0x9D6F	5748	奈	0xED8F	8979
淳	0x8F7E	2963	挾	0x9D70	5749	岄	0xED90	8980
準	0x8F80	2964	捍	0x9D71	5750	峇	0xED91	8981
潤	0x8F81	2965	搜	0x9D72	5751	嶽	0xED92	8982
盾	0x8F82	2966	捏	0x9D73	5752	崧	0xED93	8983
純	0x8F83	2967	掖	0x9D74	5753	崧	0xED94	8984
巡	0x8F84	2968	倚	0x9D75	5754	崎	0xED95	8985
遵	0x8F85	2969	掀	0x9D76	5755	嶺	0xED96	8986
醇	0x8F86	2970	擻	0x9D77	5756	嶗	0xED97	8987
順	0x8F87	2971	捶	0x9D78	5757	嶸	0xED98	8988
処	0x8F88	2972	掣	0x9D79	5758	嶹	0xED99	8989
初	0x8F89	2973	掏	0x9D7A	5759	嶺	0xED9A	8990
所	0x8F8A	2974	掉	0x9D7B	5760	弦	0xED9B	8991
暑	0x8F8B	2975	掟	0x9D7C	5761	彈	0xED9C	8992
曙	0x8F8C	2976	掄	0x9D7D	5762	彘	0xED9D	8993
渚	0x8F8D	2977	捫	0x9D7E	5763	德	0xED9E	8994
庶	0x8F8E	2978	振	0x9D80	5764	忒	0xED9F	9001
緒	0x8F8F	2979	掾	0x9D81	5765	愬	0xEDA0	9002

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
署	0x8F90	2980	措	0x9D82	5766	悅	0xEDA1	9003
書	0x8F91	2981	揀	0x9D83	5767	惹	0xEDA2	9004
薯	0x8F92	2982	揆	0x9D84	5768	愀	0xEDA3	9005
諸	0x8F93	2983	揣	0x9D85	5769	惕	0xEDA4	9006
諸	0x8F94	2984	揉	0x9D86	5770	愠	0xEDA5	9007
助	0x8F95	2985	插	0x9D87	5771	憚	0xEDA6	9008
叙	0x8F96	2986	挪	0x9D88	5772	慟	0xEDA7	9009
女	0x8F97	2987	揄	0x9D89	5773	愷	0xEDA8	9010
序	0x8F98	2988	搖	0x9D8A	5774	愧	0xEDA9	9011
徐	0x8F99	2989	牽	0x9D8B	5775	愷	0xEDAA	9012
恕	0x8F9A	2990	搆	0x9D8C	5776	或	0xEDAB	9013
鋤	0x8F9B	2991	搓	0x9D8D	5777	柄	0xEDAC	9014
除	0x8F9C	2992	搦	0x9D8E	5778	捷	0xEDAD	9015
傷	0x8F9D	2993	搶	0x9D8F	5779	摠	0xEDAE	9016
償	0x8F9E	2994	攝	0x9D90	5780	搗	0xEDAF	9017
勝	0x8F9F	3001	搗	0x9D91	5781	擎	0xEDB0	9018
匠	0x8FA0	3002	搨	0x9D92	5782	教	0xEDB1	9019
升	0x8FA1	3003	搏	0x9D93	5783	昀	0xEDB2	9020
召	0x8FA2	3004	摧	0x9D94	5784	昕	0xEDB3	9021
哨	0x8FA3	3005	摯	0x9D95	5785	昂	0xEDB4	9022
商	0x8FA4	3006	搏	0x9D96	5786	昉	0xEDB5	9023
唱	0x8FA5	3007	摻	0x9D97	5787	昂	0xEDB6	9024
嘗	0x8FA6	3008	攪	0x9D98	5788	晒	0xEDB7	9025
獎	0x8FA7	3009	撕	0x9D99	5789	聆	0xEDB8	9026
妾	0x8FA8	3010	撓	0x9DA0	5790	皖	0xEDB9	9027
娼	0x8FA9	3011	撥	0x9DA1	5791	哈	0xEDBA	9028
宵	0x8FAA	3012	撩	0x9DA2	5792	竣	0xEDBB	9029
將	0x8FAB	3013	撈	0x9DA3	5793	晴	0xEDBC	9030
小	0x8FAC	3014	撼	0x9DA4	5794	暫	0xEDBD	9031
少	0x8FAD	3015	據	0x9DA5	5801	曙	0xEDBE	9032
尚	0x8FAE	3016	擒	0x9DA6	5802	嵩	0xEDBF	9033
庄	0x8FAF	3017	擅	0x9DA7	5803	障	0xEDC0	9034
床	0x8FB0	3018	擇	0x9DA8	5804	嘻	0xEDC1	9035
廠	0x8FB1	3019	撻	0x9DA9	5805	曹	0xEDC2	9036
彰	0x8FB2	3020	擘	0x9DA0	5806	脞	0xEDC3	9037
承	0x8FB3	3021	搗	0x9DA1	5807	朗	0xEDC4	9038
抄	0x8FB4	3022	攔	0x9DA2	5808	杵	0xEDC5	9039
招	0x8FB5	3023	舉	0x9DA3	5809	柅	0xEDC6	9040
掌	0x8FB6	3024	舉	0x9DA4	5810	棄	0xEDC7	9041

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
捷	0x8FB7	3025	擠	0x9DA9	5811	被	0xEDC8	9042
昇	0x8FB8	3026	擡	0x9DAA	5812	柳	0xEDC9	9043
昌	0x8FB9	3027	抬	0x9DAB	5813	桃	0xEDCA	9044
昭	0x8FBA	3028	擣	0x9DAC	5814	梲	0xEDCB	9045
晶	0x8FBB	3029	擯	0x9DAD	5815	梲	0xEDCC	9046
松	0x8FBC	3030	攬	0x9DAE	5816	楨	0xEDCD	9047
梢	0x8FBD	3031	揣	0x9DAF	5817	桴	0xEDCE	9048
樟	0x8FBE	3032	擴	0x9DB0	5818	架	0xEDCF	9049
樵	0x8FBF	3033	擲	0x9DB1	5819	櫓	0xEDD0	9050
沼	0x8FC0	3034	擺	0x9DB2	5820	檣	0xEDD1	9051
消	0x8FC1	3035	攀	0x9DB3	5821	橫	0xEDD2	9052
涉	0x8FC2	3036	擲	0x9DB4	5822	舞	0xEDD3	9053
湘	0x8FC3	3037	攘	0x9DB5	5823	櫛	0xEDD4	9054
燒	0x8FC4	3038	攜	0x9DB6	5824	燥	0xEDD5	9055
焦	0x8FC5	3039	擯	0x9DB7	5825	檄	0xEDD6	9056
照	0x8FC6	3040	攤	0x9DB8	5826	櫛	0xEDD7	9057
症	0x8FC7	3041	攀	0x9DB9	5827	毖	0xEDD8	9058
省	0x8FC8	3042	攪	0x9DBA	5828	汧	0xEDD9	9059
硝	0x8FC9	3043	支	0x9DBB	5829	汧	0xEDDA	9060
礁	0x8FCA	3044	攵	0x9DBC	5830	汧	0xEDDB	9061
祥	0x8FCB	3045	攷	0x9DBD	5831	汧	0xEDDC	9062
称	0x8FCC	3046	收	0x9DBE	5832	泚	0xEDDD	9063
章	0x8FCD	3047	攸	0x9DBF	5833	洄	0xEDDE	9064
笑	0x8FCE	3048	攸	0x9DC0	5834	涇	0xEDDF	9065
粧	0x8FCF	3049	效	0x9DC1	5835	涇	0xEDE0	9066
紹	0x8FD0	3050	赦	0x9DC2	5836	涇	0xEDE1	9067
肖	0x8FD1	3051	敕	0x9DC3	5837	津	0xEDE2	9068
菖	0x8FD2	3052	敍	0x9DC4	5838	湟	0xEDE3	9069
蔣	0x8FD3	3053	敘	0x9DC5	5839	清	0xEDE4	9070
蕉	0x8FD4	3054	敝	0x9DC6	5840	澆	0xEDE5	9071
衝	0x8FD5	3055	敝	0x9DC7	5841	森	0xEDE6	9072
裳	0x8FD6	3056	敲	0x9DC8	5842	淘	0xEDE7	9073
訟	0x8FD7	3057	數	0x9DC9	5843	湜	0xEDE8	9074
証	0x8FD8	3058	斂	0x9DCA	5844	滯	0xEDE9	9075
詔	0x8FD9	3059	斃	0x9DCB	5845	漢	0xEDEA	9076
詳	0x8FDA	3060	變	0x9DCC	5846	澗	0xEDEB	9077
象	0x8FDB	3061	斛	0x9DCD	5847	澈	0xEDEC	9078
賞	0x8FDC	3062	斟	0x9DCE	5848	漸	0xEDED	9079
醬	0x8FDD	3063	斫	0x9DCF	5849	濱	0xEDEE	9080

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
鉦	0x8FDE	3064	斷	0x9DD0	5850	滢	0xEDEF	9081
鍾	0x8FDF	3065	旃	0x9DD1	5851	瀆	0xEDF0	9082
鐘	0x8FE0	3066	旃	0x9DD2	5852	瀨	0xEDF1	9083
障	0x8FE1	3067	旁	0x9DD3	5853	炅	0xEDF2	9084
鞘	0x8FE2	3068	旄	0x9DD4	5854	炫	0xEDF3	9085
上	0x8FE3	3069	旌	0x9DD5	5855	烝	0xEDF4	9086
丈	0x8FE4	3070	旒	0x9DD6	5856	焄	0xEDF5	9087
丞	0x8FE5	3071	旓	0x9DD7	5857	煜	0xEDF6	9088
乘	0x8FE6	3072	旒	0x9DD8	5858	燬	0xEDF7	9089
冗	0x8FE7	3073	无	0x9DD9	5859	燿	0xEDF8	9090
剩	0x8FE8	3074	无	0x9DDA	5860	熨	0xEDF9	9091
城	0x8FE9	3075	旱	0x9ddb	5861	燁	0xEDFA	9092
場	0x8FEA	3076	旱	0x9DDC	5862	燾	0xEDFB	9093
壤	0x8FEB	3077	昊	0x9DDD	5863	犷	0xEDFC	9094
孃	0x8FEC	3078	昊	0x9DDE	5864	狻	0xEE40	9101
常	0x8FED	3079	旻	0x9DDF	5865	狻	0xEE41	9102
情	0x8FEE	3080	杳	0x9DE0	5866	猪	0xEE42	9103
擾	0x8FEF	3081	昵	0x9DE1	5867	獾	0xEE43	9104
条	0x8FF0	3082	昶	0x9DE2	5868	珣	0xEE44	9105
杖	0x8FF1	3083	昶	0x9DE3	5869	珥	0xEE45	9106
淨	0x8FF2	3084	易	0x9DE4	5870	珧	0xEE46	9107
状	0x8FF3	3085	晏	0x9DE5	5871	珣	0xEE47	9108
量	0x8FF4	3086	晁	0x9DE6	5872	肆	0xEE48	9109
穰	0x8FF5	3087	晉	0x9DE7	5873	琇	0xEE49	9110
蒸	0x8FF6	3088	晁	0x9DE8	5874	瑄	0xEE4A	9111
讓	0x8FF7	3089	晞	0x9DE9	5875	琦	0xEE4B	9112
釀	0x8FF8	3090	晝	0x9DEA	5876	琪	0xEE4C	9113
錠	0x8FF9	3091	晤	0x9DEB	5877	珺	0xEE4D	9114
囑	0x8FFA	3092	皓	0x9DEC	5878	琮	0xEE4E	9115
埴	0x8FFB	3093	晨	0x9DED	5879	琤	0xEE4F	9116
飾	0x8FFC	3094	晟	0x9DEE	5880	璉	0xEE50	9117
拭	0x9040	3101	皙	0x9DEF	5881	璟	0xEE51	9118
植	0x9041	3102	晰	0x9DF0	5882	瓶	0xEE52	9119
殖	0x9042	3103	晁	0x9DF1	5883	酸	0xEE53	9120
燭	0x9043	3104	暈	0x9DF2	5884	皂	0xEE54	9121
織	0x9044	3105	暎	0x9DF3	5885	皛	0xEE55	9122
職	0x9045	3106	暉	0x9DF4	5886	皛	0xEE56	9123
色	0x9046	3107	暄	0x9DF5	5887	皛	0xEE57	9124
触	0x9047	3108	暘	0x9DF6	5888	皛	0xEE58	9125

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
食	0x9048	3109	暝	0x9DF7	5889	益	0xEE59	9126
蝕	0x9049	3110	暨	0x9DF8	5890	皖	0xEE5A	9127
辱	0x904A	3111	暹	0x9DF9	5891	劬	0xEE5B	9128
尻	0x904B	3112	曉	0x9DFA	5892	砒	0xEE5C	9129
伸	0x904C	3113	嗽	0x9DFB	5893	劓	0xEE5D	9130
信	0x904D	3114	瞥	0x9DFC	5894	硃	0xEE5E	9131
侵	0x904E	3115	擘	0x9E40	5901	琢	0xEE5F	9132
唇	0x904F	3116	瞭	0x9E41	5902	礪	0xEE60	9133
娠	0x9050	3117	曖	0x9E42	5903	祀	0xEE61	9134
寢	0x9051	3118	矇	0x9E43	5904	神	0xEE62	9135
審	0x9052	3119	曠	0x9E44	5905	祥	0xEE63	9136
心	0x9053	3120	眈	0x9E45	5906	禊	0xEE64	9137
慎	0x9054	3121	曦	0x9E46	5907	福	0xEE65	9138
振	0x9055	3122	曩	0x9E47	5908	禛	0xEE66	9139
新	0x9056	3123	曰	0x9E48	5909	竝	0xEE67	9140
晋	0x9057	3124	曳	0x9E49	5910	靖	0xEE68	9141
森	0x9058	3125	曷	0x9E4A	5911	靖	0xEE69	9142
榛	0x9059	3126	胙	0x9E4B	5912	蟬	0xEE6A	9143
浸	0x905A	3127	腭	0x9E4C	5913	箠	0xEE6B	9144
深	0x905B	3128	朞	0x9E4D	5914	精	0xEE6C	9145
申	0x905C	3129	朦	0x9E4E	5915	紮	0xEE6D	9146
疹	0x905D	3130	朧	0x9E4F	5916	絜	0xEE6E	9147
真	0x905E	3131	霸	0x9E50	5917	粹	0xEE6F	9148
神	0x905F	3132	朮	0x9E51	5918	綠	0xEE70	9149
秦	0x9060	3133	束	0x9E52	5919	緒	0xEE71	9150
紳	0x9061	3134	朶	0x9E53	5920	繪	0xEE72	9151
臣	0x9062	3135	朮	0x9E54	5921	罇	0xEE73	9152
芯	0x9063	3136	朮	0x9E55	5922	羨	0xEE74	9153
薪	0x9064	3137	朮	0x9E56	5923	羽	0xEE75	9154
親	0x9065	3138	杆	0x9E57	5924	茁	0xEE76	9155
診	0x9066	3139	杞	0x9E58	5925	芋	0xEE77	9156
身	0x9067	3140	杠	0x9E59	5926	茂	0xEE78	9157
辛	0x9068	3141	杙	0x9E5A	5927	菇	0xEE79	9158
進	0x9069	3142	杣	0x9E5B	5928	拳	0xEE7A	9159
針	0x906A	3143	朽	0x9E5C	5929	藁	0xEE7B	9160
震	0x906B	3144	枉	0x9E5D	5930	蒴	0xEE7C	9161
人	0x906C	3145	杰	0x9E5E	5931	蕙	0xEE7D	9162
仁	0x906D	3146	衮	0x9E5F	5932	蕙	0xEE7E	9163
刃	0x906E	3147	杼	0x9E60	5933	董	0xEE80	9164

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
塵	0x906F	3148	杪	0x9E61	5934	臈	0xEE81	9165
壬	0x9070	3149	粉	0x9E62	5935	薰	0xEE82	9166
尋	0x9071	3150	枋	0x9E63	5936	穉	0xEE83	9167
甚	0x9072	3151	柁	0x9E64	5937	姓	0xEE84	9168
尽	0x9073	3152	枿	0x9E65	5938	蟻	0xEE85	9169
腎	0x9074	3153	枿	0x9E66	5939	褻	0xEE86	9170
訊	0x9075	3154	枷	0x9E67	5940	訶	0xEE87	9171
迅	0x9076	3155	柯	0x9E68	5941	諄	0xEE88	9172
陣	0x9077	3156	枒	0x9E69	5942	詹	0xEE89	9173
鞠	0x9078	3157	束	0x9E6A	5943	誦	0xEE8A	9174
筭	0x9079	3158	枳	0x9E6B	5944	閻	0xEE8B	9175
諷	0x907A	3159	樞	0x9E6C	5945	諛	0xEE8C	9176
須	0x907B	3160	枸	0x9E6D	5946	諸	0xEE8D	9177
酢	0x907C	3161	祖	0x9E6E	5947	謹	0xEE8E	9178
囟	0x907D	3162	柞	0x9E6F	5948	諛	0xEE8F	9179
厨	0x907E	3163	柝	0x9E70	5949	諛	0xEE90	9180
逗	0x9080	3164	柢	0x9E71	5950	贍	0xEE91	9181
吹	0x9081	3165	柗	0x9E72	5951	賴	0xEE92	9182
垂	0x9082	3166	袍	0x9E73	5952	贊	0xEE93	9183
帥	0x9083	3167	柎	0x9E74	5953	趕	0xEE94	9184
推	0x9084	3168	拉	0x9E75	5954	赳	0xEE95	9185
水	0x9085	3169	椏	0x9E76	5955	軌	0xEE96	9186
炊	0x9086	3170	檜	0x9E77	5956	返	0xEE97	9187
睡	0x9087	3171	桀	0x9E78	5957	逸	0xEE98	9188
粹	0x9088	3172	框	0x9E79	5958	遑	0xEE99	9189
翠	0x9089	3173	栩	0x9E7A	5959	郎	0xEE9A	9190
衰	0x908A	3174	桀	0x9E7B	5960	都	0xEE9B	9191
遂	0x908B	3175	桤	0x9E7C	5961	鄉	0xEE9C	9192
醉	0x908C	3176	桤	0x9E7D	5962	鄧	0xEE9D	9193
錐	0x908D	3177	桤	0x9E7E	5963	釃	0xEE9E	9194
錘	0x908E	3178	梳	0x9E80	5964	釃	0xEE9F	9201
随	0x908F	3179	桤	0x9E81	5965	釃	0xEEA0	9202
瑞	0x9090	3180	桤	0x9E82	5966	釃	0xEEA1	9203
髓	0x9091	3181	档	0x9E83	5967	釃	0xEEA2	9204
崇	0x9092	3182	桤	0x9E84	5968	釃	0xEEA3	9205
嵩	0x9093	3183	桤	0x9E85	5969	釃	0xEEA4	9206
数	0x9094	3184	梟	0x9E86	5970	釃	0xEEA5	9207
枢	0x9095	3185	桤	0x9E87	5971	釃	0xEEA6	9208
趨	0x9096	3186	梭	0x9E88	5972	釃	0xEEA7	9209

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
雛	0x9097	3187	梶	0x9E89	5973	鉦	0xEEA8	9210
据	0x9098	3188	條	0x9E8A	5974	鉀	0xEEA9	9211
杉	0x9099	3189	椰	0x9E8B	5975	鉅	0xEEAA	9212
梶	0x909A	3190	梃	0x9E8C	5976	鉉	0xEEAB	9213
菅	0x909B	3191	檣	0x9E8D	5977	鉊	0xEEAC	9214
頗	0x909C	3192	栢	0x9E8E	5978	鉋	0xEEAD	9215
雀	0x909D	3193	桴	0x9E8F	5979	鉌	0xEEAE	9216
据	0x909E	3194	梵	0x9E90	5980	鉍	0xEEAF	9217
澄	0x909F	3201	栢	0x9E91	5981	鉎	0xEEB0	9218
摺	0x90A0	3202	棼	0x9E92	5982	鉏	0xEEB1	9219
寸	0x90A1	3203	桠	0x9E93	5983	鉑	0xEEB2	9220
世	0x90A2	3204	梴	0x9E94	5984	鉒	0xEEB3	9221
瀨	0x90A3	3205	裙	0x9E95	5985	鉓	0xEEB4	9222
畝	0x90A4	3206	桴	0x9E96	5986	鉔	0xEEB5	9223
是	0x90A5	3207	棊	0x9E97	5987	鉕	0xEEB6	9224
凄	0x90A6	3208	栲	0x9E98	5988	鉖	0xEEB7	9225
制	0x90A7	3209	棘	0x9E99	5989	鉗	0xEEB8	9226
勢	0x90A8	3210	栢	0x9E9A	5990	鉘	0xEEB9	9227
姓	0x90A9	3211	榜	0x9E9B	5991	鉙	0xEEBA	9228
征	0x90AA	3212	栢	0x9E9C	5992	鉚	0xEEBB	9229
性	0x90AB	3213	控	0x9E9D	5993	鉛	0xEEBC	9230
成	0x90AC	3214	棍	0x9E9E	5994	鉎	0xEEBD	9231
政	0x90AD	3215	楯	0x9E9F	6001	鉐	0xEEBE	9232
整	0x90AE	3216	棧	0x9EA0	6002	鉑	0xEEBF	9233
星	0x90AF	3217	棕	0x9EA1	6003	鉒	0xEEC0	9234
晴	0x90B0	3218	櫻	0x9EA2	6004	鉓	0xEEC1	9235
棲	0x90B1	3219	椒	0x9EA3	6005	鉔	0xEEC2	9236
栖	0x90B2	3220	接	0x9EA4	6006	鉕	0xEEC3	9237
正	0x90B3	3221	棗	0x9EA5	6007	鉖	0xEEC4	9238
清	0x90B4	3222	棣	0x9EA6	6008	鉗	0xEEC5	9239
牲	0x90B5	3223	楸	0x9EA7	6009	鉘	0xEEC6	9240
生	0x90B6	3224	棹	0x9EA8	6010	鉙	0xEEC7	9241
盛	0x90B7	3225	棠	0x9EA9	6011	鉚	0xEEC8	9242
精	0x90B8	3226	楸	0x9EAA	6012	鉛	0xEEC9	9243
聖	0x90B9	3227	楸	0x9EAB	6013	鉎	0xEECA	9244
声	0x90BA	3228	楸	0x9EAC	6014	鉐	0xEECB	9245
製	0x90BB	3229	栢	0x9EAD	6015	間	0xEECC	9246
西	0x90BC	3230	楸	0x9EAE	6016	隆	0xEECD	9247
誠	0x90BD	3231	楸	0x9EAF	6017	隴	0xEECE	9248

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
誓	0x90BE	3232	榊	0x9EB0	6018	隴	0xEECF	9249
請	0x90BF	3233	楹	0x9EB1	6019	隴	0xEED0	9250
逝	0x90C0	3234	楷	0x9EB2	6020	霽	0xEED1	9251
醒	0x90C1	3235	糊	0x9EB3	6021	霽	0xEED2	9252
青	0x90C2	3236	楸	0x9EB4	6022	霽	0xEED3	9253
静	0x90C3	3237	楫	0x9EB5	6023	霽	0xEED4	9254
齐	0x90C4	3238	楔	0x9EB6	6024	霽	0xEED5	9255
税	0x90C5	3239	椋	0x9EB7	6025	青	0xEED6	9256
脆	0x90C6	3240	楮	0x9EB8	6026	靖	0xEED7	9257
隻	0x90C7	3241	榭	0x9EB9	6027	顛	0xEED8	9258
席	0x90C8	3242	柿	0x9EBA	6028	顛	0xEED9	9259
惜	0x90C9	3243	椽	0x9EBB	6029	飯	0xEEDA	9260
戚	0x90CA	3244	淋	0x9EBC	6030	飼	0xEEDB	9261
斥	0x90CB	3245	椰	0x9EBD	6031	餒	0xEEDC	9262
昔	0x90CC	3246	榆	0x9EBE	6032	館	0xEEDD	9263
析	0x90CD	3247	楞	0x9EBF	6033	辭	0xEEDE	9264
石	0x90CE	3248	棟	0x9EC0	6034	麟	0xEEDF	9265
積	0x90CF	3249	榑	0x9EC1	6035	高	0xEEEO	9266
籍	0x90D0	3250	楪	0x9EC2	6036	禪	0xEEEO	9267
績	0x90D1	3251	楹	0x9EC3	6037	紛	0xEEEO	9268
脊	0x90D2	3252	榮	0x9EC4	6038	鮪	0xEEEO	9269
責	0x90D3	3253	槐	0x9EC5	6039	鮪	0xEEEO	9270
赤	0x90D4	3254	橙	0x9EC6	6040	鮪	0xEEEO	9271
跡	0x90D5	3255	槁	0x9EC7	6041	鮪	0xEEEO	9272
蹟	0x90D6	3256	楨	0x9EC8	6042	鰻	0xEEEO	9273
碩	0x90D7	3257	楨	0x9EC9	6043	鵬	0xEEEO	9274
切	0x90D8	3258	槎	0x9ECA	6044	鵠	0xEEEO	9275
拙	0x90D9	3259	寨	0x9ECB	6045	鶴	0xEEEO	9276
接	0x90DA	3260	槩	0x9ECC	6046	鷓	0xEEEO	9277
撰	0x90DB	3261	槩	0x9ECD	6047	黑	0xEEEO	9278
折	0x90DC	3262	榻	0x9ECE	6048	i	0xEEEO	9281
設	0x90DD	3263	槃	0x9ECF	6049	ii	0xEEEO	9282
窃	0x90DE	3264	榷	0x9ED0	6050	iii	0xEEEO	9283
節	0x90DF	3265	榷	0x9ED1	6051	iv	0xEEEO	9284
說	0x90E0	3266	榷	0x9ED2	6052	v	0xEEEO	9285
雪	0x90E1	3267	榷	0x9ED3	6053	vi	0xEEEO	9286
絶	0x90E2	3268	榜	0x9ED4	6054	vii	0xEEEO	9287
舌	0x90E3	3269	榕	0x9ED5	6055	viii	0xEEEO	9288
蟬	0x90E4	3270	榴	0x9ED6	6056	ix	0xEEEO	9289



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
仙	0x90E5	3271	橈	0x9ED7	6057	x	0xEEF8	9290
先	0x90E6	3272	榔	0x9ED8	6058	ㄣ	0xEEF9	9291
千	0x90E7	3273	樂	0x9ED9	6059	丯	0xEEFA	9292
占	0x90E8	3274	糶	0x9EDA	6060	'	0xEEFB	9293
宣	0x90E9	3275	槿	0x9EDB	6061	"	0xEEFC	9294
專	0x90EA	3276	權	0x9EDC	6062	i	0xFA40	11501
尖	0x90EB	3277	棹	0x9EDD	6063	ii	0xFA41	11502
川	0x90EC	3278	榭	0x9EDE	6064	iii	0xFA42	11503
戰	0x90ED	3279	槩	0x9EDF	6065	iv	0xFA43	11504
扇	0x90EE	3280	縱	0x9EE0	6066	v	0xFA44	11505
撰	0x90EF	3281	襖	0x9EE1	6067	vi	0xFA45	11506
栓	0x90F0	3282	樞	0x9EE2	6068	vii	0xFA46	11507
栴	0x90F1	3283	械	0x9EE3	6069	viii	0xFA47	11508
泉	0x90F2	3284	櫟	0x9EE4	6070	ix	0xFA48	11509
淺	0x90F3	3285	樽	0x9EE5	6071	x	0xFA49	11510
洗	0x90F4	3286	樊	0x9EE6	6072	I	0xFA4A	11511
染	0x90F5	3287	密	0x9EE7	6073	II	0xFA4B	11512
潛	0x90F6	3288	檣	0x9EE8	6074	III	0xFA4C	11513
煎	0x90F7	3289	樣	0x9EE9	6075	IV	0xFA4D	11514
煽	0x90F8	3290	樓	0x9EEA	6076	V	0xFA4E	11515
旋	0x90F9	3291	檄	0x9EEB	6077	VI	0xFA4F	11516
穿	0x90FA	3292	檣	0x9EEC	6078	VII	0xFA50	11517
箭	0x90FB	3293	檣	0x9EED	6079	VIII	0xFA51	11518
線	0x90FC	3294	檣	0x9EEE	6080	IX	0xFA52	11519
織	0x9140	3301	楯	0x9EEF	6081	X	0xFA53	11520
羨	0x9141	3302	橈	0x9EF0	6082	ㄣ	0xFA54	11521
腺	0x9142	3303	橈	0x9EF1	6083	丯	0xFA55	11522
舛	0x9143	3304	橙	0x9EF2	6084	'	0xFA56	11523
船	0x9144	3305	撞	0x9EF3	6085	"	0xFA57	11524
薦	0x9145	3306	橈	0x9EF4	6086	(株)	0xFA58	11525
詮	0x9146	3307	樸	0x9EF5	6087	No.	0xFA59	11526
賤	0x9147	3308	鳩	0x9EF6	6088	TEL	0xFA5A	11527
踐	0x9148	3309	檐	0x9EF7	6089	∴	0xFA5B	11528
選	0x9149	3310	櫛	0x9EF8	6090	續	0xFA5C	11529
遷	0x914A	3311	檣	0x9EF9	6091	襲	0xFA5D	11530
錢	0x914B	3312	檄	0x9EFA	6092	鎂	0xFA5E	11531
銃	0x914C	3313	檢	0x9EFB	6093	銑	0xFA5F	11532
閃	0x914D	3314	檣	0x9EFC	6094	靛	0xFA60	11533
鮮	0x914E	3315	檣	0x9F40	6101	悟	0xFA61	11534

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
前	0x914F	3316	藁	0x9F41	6102	炆	0xFA62	11535
善	0x9150	3317	檻	0x9F42	6103	昱	0xFA63	11536
漸	0x9151	3318	櫃	0x9F43	6104	精	0xFA64	11537
然	0x9152	3319	權	0x9F44	6105	鋳	0xFA65	11538
全	0x9153	3320	檸	0x9F45	6106	鼻	0xFA66	11539
禪	0x9154	3321	檳	0x9F46	6107	彌	0xFA67	11540
繕	0x9155	3322	檬	0x9F47	6108	丨	0xFA68	11541
膳	0x9156	3323	櫟	0x9F48	6109	仵	0xFA69	11542
糲	0x9157	3324	櫛	0x9F49	6110	任	0xFA6A	11543
噌	0x9158	3325	櫟	0x9F4A	6111	佗	0xFA6B	11544
塑	0x9159	3326	櫟	0x9F4B	6112	仔	0xFA6C	11545
岨	0x915A	3327	櫛	0x9F4C	6113	但	0xFA6D	11546
措	0x915B	3328	櫛	0x9F4D	6114	秘	0xFA6E	11547
曾	0x915C	3329	櫻	0x9F4E	6115	佞	0xFA6F	11548
曾	0x915D	3330	櫻	0x9F4F	6116	佻	0xFA70	11549
楚	0x915E	3331	藁	0x9F50	6117	佻	0xFA71	11550
狙	0x915F	3332	櫛	0x9F51	6118	佻	0xFA72	11551
疏	0x9160	3333	櫛	0x9F52	6119	佻	0xFA73	11552
疎	0x9161	3334	櫛	0x9F53	6120	佻	0xFA74	11553
礎	0x9162	3335	鬱	0x9F54	6121	佻	0xFA75	11554
祖	0x9163	3336	櫛	0x9F55	6122	佻	0xFA76	11555
租	0x9164	3337	欵	0x9F56	6123	佻	0xFA77	11556
粗	0x9165	3338	欵	0x9F57	6124	佻	0xFA78	11557
素	0x9166	3339	盜	0x9F58	6125	佻	0xFA79	11558
組	0x9167	3340	欵	0x9F59	6126	佻	0xFA7A	11559
蘇	0x9168	3341	飲	0x9F5A	6127	佻	0xFA7B	11560
訴	0x9169	3342	欵	0x9F5B	6128	佻	0xFA7C	11561
阻	0x916A	3343	欵	0x9F5C	6129	佻	0xFA7D	11562
邈	0x916B	3344	欵	0x9F5D	6130	兂	0xFA7E	11563
鼠	0x916C	3345	歐	0x9F5E	6131	醜	0xFA80	11564
僧	0x916D	3346	欵	0x9F5F	6132	亘	0xFA81	11565
創	0x916E	3347	欵	0x9F60	6133	冷	0xFA82	11566
双	0x916F	3348	斂	0x9F61	6134	鼠	0xFA83	11567
叢	0x9170	3349	歟	0x9F62	6135	劦	0xFA84	11568
倉	0x9171	3350	歡	0x9F63	6136	尢	0xFA85	11569
喪	0x9172	3351	歸	0x9F64	6137	劦	0xFA86	11570
壯	0x9173	3352	歹	0x9F65	6138	劦	0xFA87	11571
奏	0x9174	3353	歿	0x9F66	6139	勛	0xFA88	11572
爽	0x9175	3354	歿	0x9F67	6140	勻	0xFA89	11573

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
宋	0x9176	3355	殄	0x9F68	6141	匆	0xFA8A	11574
屠	0x9177	3356	殃	0x9F69	6142	匡	0xFA8B	11575
匝	0x9178	3357	殍	0x9F6A	6143	邵	0xFA8C	11576
惣	0x9179	3358	殘	0x9F6B	6144	匡	0xFA8D	11577
想	0x917A	3359	殍	0x9F6C	6145	厲	0xFA8E	11578
搜	0x917B	3360	殞	0x9F6D	6146	赅	0xFA8F	11579
掃	0x917C	3361	殤	0x9F6E	6147	雙	0xFA90	11580
插	0x917D	3362	殪	0x9F6F	6148	咤	0xFA91	11581
搔	0x917E	3363	殫	0x9F70	6149	咏	0xFA92	11582
操	0x9180	3364	殞	0x9F71	6150	咩	0xFA93	11583
早	0x9181	3365	殲	0x9F72	6151	哿	0xFA94	11584
曹	0x9182	3366	殲	0x9F73	6152	喆	0xFA95	11585
巢	0x9183	3367	殳	0x9F74	6153	烝	0xFA96	11586
槍	0x9184	3368	殷	0x9F75	6154	坦	0xFA97	11587
槽	0x9185	3369	殼	0x9F76	6155	垧	0xFA98	11588
漕	0x9186	3370	毆	0x9F77	6156	垠	0xFA99	11589
燥	0x9187	3371	毋	0x9F78	6157	埔	0xFA9A	11590
争	0x9188	3372	毓	0x9F79	6158	垠	0xFA9B	11591
瘦	0x9189	3373	峯	0x9F7A	6159	塚	0xFA9C	11592
相	0x918A	3374	毳	0x9F7B	6160	增	0xFA9D	11593
窓	0x918B	3375	毫	0x9F7C	6161	壩	0xFA9E	11594
糟	0x918C	3376	毳	0x9F7D	6162	垠	0xFA9F	11601
総	0x918D	3377	毳	0x9F7E	6163	麥	0xFAA0	11602
綜	0x918E	3378	麾	0x9F80	6164	萌	0xFAA1	11603
聡	0x918F	3379	氈	0x9F81	6165	裔	0xFAA2	11604
草	0x9190	3380	氓	0x9F82	6166	裔	0xFAA3	11605
莊	0x9191	3381	气	0x9F83	6167	孀	0xFAA4	11606
葬	0x9192	3382	氛	0x9F84	6168	妹	0xFAA5	11607
蒼	0x9193	3383	氫	0x9F85	6169	孀	0xFAA6	11608
藻	0x9194	3384	氣	0x9F86	6170	窠	0xFAA7	11609
装	0x9195	3385	汞	0x9F87	6171	甯	0xFAA8	11610
走	0x9196	3386	汕	0x9F88	6172	寔	0xFAA9	11611
送	0x9197	3387	洎	0x9F89	6173	寬	0FAAA	11612
遭	0x9198	3388	汪	0x9F8A	6174	寮	0FAAB	11613
鎗	0x9199	3389	沂	0x9F8B	6175	岄	0FAAC	11614
霜	0x919A	3390	洫	0x9F8C	6176	峯	0FAAD	11615
騷	0x919B	3391	洫	0x9F8D	6177	岄	0FAAE	11616
像	0x919C	3392	沁	0x9F8E	6178	崧	0FAAF	11617
增	0x919D	3393	沛	0x9F8F	6179	崧	0FAB0	11618

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
憎	0x919E	3394	汾	0x9F90	6180	崎	0xFAB1	11619
臧	0x919F	3401	汨	0x9F91	6181	嶽	0xFAB2	11620
蔵	0x91A0	3402	汜	0x9F92	6182	嶂	0xFAB3	11621
贈	0x91A1	3403	沒	0x9F93	6183	嶸	0xFAB4	11622
造	0x91A2	3404	沐	0x9F94	6184	嶺	0xFAB5	11623
促	0x91A3	3405	泄	0x9F95	6185	嶻	0xFAB6	11624
側	0x91A4	3406	決	0x9F96	6186	𠂔	0xFAB7	11625
則	0x91A5	3407	泓	0x9F97	6187	𠂔	0xFAB8	11626
即	0x91A6	3408	沽	0x9F98	6188	𠂔	0xFAB9	11627
息	0x91A7	3409	泗	0x9F99	6189	德	0xFABA	11628
捉	0x91A8	3410	泗	0x9F9A	6190	恣	0xFABB	11629
束	0x91A9	3411	泝	0x9F9B	6191	恣	0xFABC	11630
測	0x91AA	3412	沮	0x9F9C	6192	悅	0xFABD	11631
足	0x91AB	3413	沱	0x9F9D	6193	恣	0xFABE	11632
速	0x91AC	3414	沾	0x9F9E	6194	愀	0xFABF	11633
俗	0x91AD	3415	泔	0x9F9F	6201	惕	0xFAC0	11634
属	0x91AE	3416	泛	0x9FA0	6202	愠	0xFAC1	11635
賊	0x91AF	3417	泯	0x9FA1	6203	憚	0xFAC2	11636
族	0x91B0	3418	泮	0x9FA2	6204	憚	0xFAC3	11637
続	0x91B1	3419	泪	0x9FA3	6205	愷	0xFAC4	11638
卒	0x91B2	3420	洩	0x9FA4	6206	愧	0xFAC5	11639
袖	0x91B3	3421	衍	0x9FA5	6207	愷	0xFAC6	11640
其	0x91B4	3422	洵	0x9FA6	6208	或	0xFAC7	11641
揃	0x91B5	3423	洫	0x9FA7	6209	柄	0xFAC8	11642
存	0x91B6	3424	洽	0x9FA8	6210	捷	0xFAC9	11643
孫	0x91B7	3425	洸	0x9FA9	6211	摠	0xFACA	11644
尊	0x91B8	3426	洙	0x9FAA	6212	摠	0xFACB	11645
損	0x91B9	3427	洵	0x9FAB	6213	擎	0xFACC	11646
村	0x91BA	3428	洳	0x9FAC	6214	教	0xFACD	11647
遜	0x91BB	3429	洒	0x9FAD	6215	昀	0xFACE	11648
他	0x91BC	3430	洌	0x9FAE	6216	昕	0xFACF	11649
多	0x91BD	3431	浣	0x9FAF	6217	昂	0xFAD0	11650
太	0x91BE	3432	涓	0x9FB0	6218	昉	0xFAD1	11651
汰	0x91BF	3433	滋	0x9FB1	6219	昂	0xFAD2	11652
訖	0x91C0	3434	浚	0x9FB2	6220	昞	0xFAD3	11653
唾	0x91C1	3435	浹	0x9FB3	6221	昞	0xFAD4	11654
墮	0x91C2	3436	浙	0x9FB4	6222	晡	0xFAD5	11655
妥	0x91C3	3437	涎	0x9FB5	6223	哈	0xFAD6	11656
情	0x91C4	3438	涕	0x9FB6	6224	峻	0xFAD7	11657

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
打	0x91C5	3439	濤	0x9FB7	6225	晴	0xFAD8	11658
柁	0x91C6	3440	湮	0x9FB8	6226	皙	0xFAD9	11659
舵	0x91C7	3441	淹	0x9FB9	6227	晴	0xFADA	11660
橈	0x91C8	3442	澗	0x9FBA	6228	暘	0xFADB	11661
陀	0x91C9	3443	淵	0x9FBB	6229	暘	0xFADC	11662
馱	0x91CA	3444	涵	0x9FBC	6230	暘	0xFADD	11663
驛	0x91CB	3445	淇	0x9FBD	6231	曹	0xFADE	11664
体	0x91CC	3446	淦	0x9FBE	6232	脞	0xFADF	11665
堆	0x91CD	3447	涸	0x9FBF	6233	朗	0xFAE0	11666
对	0x91CE	3448	淆	0x9FC0	6234	杓	0xFAE1	11667
耐	0x91CF	3449	淬	0x9FC1	6235	柅	0xFAE2	11668
岱	0x91D0	3450	淞	0x9FC2	6236	栾	0xFAE3	11669
带	0x91D1	3451	淌	0x9FC3	6237	被	0xFAE4	11670
待	0x91D2	3452	淨	0x9FC4	6238	柳	0xFAE5	11671
怠	0x91D3	3453	淒	0x9FC5	6239	桃	0xFAE6	11672
態	0x91D4	3454	浙	0x9FC6	6240	梲	0xFAE7	11673
戴	0x91D5	3455	淺	0x9FC7	6241	栲	0xFAE8	11674
替	0x91D6	3456	淙	0x9FC8	6242	楨	0xFAE9	11675
泰	0x91D7	3457	淤	0x9FC9	6243	榉	0xFAEA	11676
滯	0x91D8	3458	塗	0x9FCA	6244	桀	0xFAEB	11677
胎	0x91D9	3459	淪	0x9FCB	6245	櫛	0xFAEC	11678
腿	0x91DA	3460	淮	0x9FCC	6246	檣	0xFAED	11679
苔	0x91DB	3461	渭	0x9FCD	6247	橫	0xFAEE	11680
袋	0x91DC	3462	湮	0x9FCE	6248	籜	0xFAEF	11681
貸	0x91DD	3463	滄	0x9FCF	6249	櫛	0xFAF0	11682
退	0x91DE	3464	渙	0x9FD0	6250	燥	0xFAF1	11683
逮	0x91DF	3465	浚	0x9FD1	6251	檄	0xFAF2	11684
隊	0x91E0	3466	湟	0x9FD2	6252	櫛	0xFAF3	11685
黨	0x91E1	3467	渾	0x9FD3	6253	毳	0xFAF4	11686
鯛	0x91E2	3468	渣	0x9FD4	6254	洧	0xFAF5	11687
代	0x91E3	3469	湫	0x9FD5	6255	汜	0xFAF6	11688
台	0x91E4	3470	渫	0x9FD6	6256	沆	0xFAF7	11689
大	0x91E5	3471	涼	0x9FD7	6257	沆	0xFAF8	11690
第	0x91E6	3472	湍	0x9FD8	6258	泚	0xFAF9	11691
醒	0x91E7	3473	渟	0x9FD9	6259	洄	0xFAFA	11692
題	0x91E8	3474	湃	0x9FDA	6260	涇	0xFAFB	11693
鷹	0x91E9	3475	渺	0x9FDB	6261	涇	0xFAFC	11694
滝	0x91EA	3476	灑	0x9FDC	6262	洧	0xFB40	11701
瀧	0x91EB	3477	渤	0x9FDD	6263	津	0xFB41	11702

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
卓	0x91EC	3478	滿	0x9FDE	6264	湨	0xFB42	11703
啄	0x91ED	3479	滃	0x9FDF	6265	清	0xFB43	11704
宅	0x91EE	3480	游	0x9FE0	6266	澆	0xFB44	11705
托	0x91EF	3481	澗	0x9FE1	6267	淼	0xFB45	11706
扱	0x91F0	3482	溪	0x9FE2	6268	淘	0xFB46	11707
拓	0x91F1	3483	澗	0x9FE3	6269	湜	0xFB47	11708
沢	0x91F2	3484	湜	0x9FE4	6270	滸	0xFB48	11709
濯	0x91F3	3485	溷	0x9FE5	6271	湜	0xFB49	11710
琢	0x91F4	3486	滓	0x9FE6	6272	滸	0xFB4A	11711
託	0x91F5	3487	溥	0x9FE7	6273	澈	0xFB4B	11712
鐸	0x91F6	3488	溯	0x9FE8	6274	漸	0xFB4C	11713
濁	0x91F7	3489	滄	0x9FE9	6275	瀆	0xFB4D	11714
諾	0x91F8	3490	澗	0x9FEA	6276	滢	0xFB4E	11715
茸	0x91F9	3491	滔	0x9FEB	6277	瀆	0xFB4F	11716
夙	0x91FA	3492	滕	0x9FEC	6278	瀨	0xFB50	11717
蛸	0x91FB	3493	漉	0x9FED	6279	炅	0xFB51	11718
只	0x91FC	3494	溥	0x9FEE	6280	炫	0xFB52	11719
叩	0x9240	3501	滂	0x9FEF	6281	烝	0xFB53	11720
但	0x9241	3502	溟	0x9FF0	6282	焄	0xFB54	11721
達	0x9242	3503	潁	0x9FF1	6283	焅	0xFB55	11722
辰	0x9243	3504	漑	0x9FF2	6284	焆	0xFB56	11723
奪	0x9244	3505	灌	0x9FF3	6285	焇	0xFB57	11724
脱	0x9245	3506	滬	0x9FF4	6286	焈	0xFB58	11725
巽	0x9246	3507	滸	0x9FF5	6287	焉	0xFB59	11726
豎	0x9247	3508	滾	0x9FF6	6288	焊	0xFB5A	11727
辿	0x9248	3509	漿	0x9FF7	6289	犷	0xFB5B	11728
棚	0x9249	3510	滲	0x9FF8	6290	狢	0xFB5C	11729
谷	0x924A	3511	漱	0x9FF9	6291	狣	0xFB5D	11730
狸	0x924B	3512	滯	0x9FFA	6292	猪	0xFB5E	11731
鱈	0x924C	3513	漲	0x9FFB	6293	獷	0xFB5F	11732
樽	0x924D	3514	滌	0x9FFC	6294	珣	0xFB60	11733
誰	0x924E	3515	漾	0xE040	6301	珥	0xFB61	11734
丹	0x924F	3516	漓	0xE041	6302	珧	0xFB62	11735
单	0x9250	3517	滷	0xE042	6303	珣	0xFB63	11736
嘆	0x9251	3518	澆	0xE043	6304	肆	0xFB64	11737
坦	0x9252	3519	潺	0xE044	6305	琇	0xFB65	11738
担	0x9253	3520	清	0xE045	6306	琕	0xFB66	11739
探	0x9254	3521	澗	0xE046	6307	琦	0xFB67	11740
旦	0x9255	3522	澀	0xE047	6308	琪	0xFB68	11741

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
歎	0x9256	3523	澗	0xE048	6309	瑁	0xFB69	11742
淡	0x9257	3524	潛	0xE049	6310	琮	0xFB6A	11743
湛	0x9258	3525	潛	0xE04A	6311	瑤	0xFB6B	11744
炭	0x9259	3526	潭	0xE04B	6312	璉	0xFB6C	11745
短	0x925A	3527	激	0xE04C	6313	璟	0xFB6D	11746
端	0x925B	3528	潼	0xE04D	6314	瓶	0xFB6E	11747
筆	0x925C	3529	潘	0xE04E	6315	駿	0xFB6F	11748
綻	0x925D	3530	澎	0xE04F	6316	皂	0xFB70	11749
耽	0x925E	3531	澗	0xE050	6317	皛	0xFB71	11750
胆	0x925F	3532	灑	0xE051	6318	皞	0xFB72	11751
蛋	0x9260	3533	潦	0xE052	6319	晶	0xFB73	11752
誕	0x9261	3534	澳	0xE053	6320	皦	0xFB74	11753
鍛	0x9262	3535	澗	0xE054	6321	益	0xFB75	11754
団	0x9263	3536	澡	0xE055	6322	皖	0xFB76	11755
壇	0x9264	3537	澤	0xE056	6323	劬	0xFB77	11756
彈	0x9265	3538	澹	0xE057	6324	砭	0xFB78	11757
断	0x9266	3539	潰	0xE058	6325	劓	0xFB79	11758
暖	0x9267	3540	濤	0xE059	6326	硖	0xFB7A	11759
檀	0x9268	3541	濟	0xE05A	6327	琢	0xFB7B	11760
段	0x9269	3542	濕	0xE05B	6328	礪	0xFB7C	11761
男	0x926A	3543	濬	0xE05C	6329	礼	0xFB7D	11762
談	0x926B	3544	灑	0xE05D	6330	神	0xFB7E	11763
值	0x926C	3545	濶	0xE05E	6331	祥	0xFB80	11764
知	0x926D	3546	濱	0xE05F	6332	禔	0xFB81	11765
地	0x926E	3547	濮	0xE060	6333	福	0xFB82	11766
弛	0x926F	3548	濛	0xE061	6334	禛	0xFB83	11767
恥	0x9270	3549	瀉	0xE062	6335	竝	0xFB84	11768
智	0x9271	3550	瀆	0xE063	6336	竝	0xFB85	11769
池	0x9272	3551	澗	0xE064	6337	靖	0xFB86	11770
痴	0x9273	3552	瀑	0xE065	6338	蛸	0xFB87	11771
稚	0x9274	3553	養	0xE066	6339	簞	0xFB88	11772
置	0x9275	3554	瀏	0xE067	6340	精	0xFB89	11773
致	0x9276	3555	濾	0xE068	6341	紮	0xFB8A	11774
蜘蛛	0x9277	3556	瀛	0xE069	6342	絜	0xFB8B	11775
遲	0x9278	3557	瀚	0xE06A	6343	粹	0xFB8C	11776
馳	0x9279	3558	瀟	0xE06B	6344	綠	0xFB8D	11777
築	0x927A	3559	瀝	0xE06C	6345	緒	0xFB8E	11778
畜	0x927B	3560	瀘	0xE06D	6346	繪	0xFB8F	11779
竹	0x927C	3561	瀟	0xE06E	6347	罇	0xFB90	11780

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
筑	0x927D	3562	瀰	0xE06F	6348	羨	0xFB91	11781
蓄	0x927E	3563	瀾	0xE070	6349	羽	0xFB92	11782
逐	0x9280	3564	激	0xE071	6350	茁	0xFB93	11783
秩	0x9281	3565	灑	0xE072	6351	芋	0xFB94	11784
窒	0x9282	3566	灣	0xE073	6352	茂	0xFB95	11785
茶	0x9283	3567	炙	0xE074	6353	菇	0xFB96	11786
嫡	0x9284	3568	炒	0xE075	6354	蕻	0xFB97	11787
着	0x9285	3569	炯	0xE076	6355	藁	0xFB98	11788
中	0x9286	3570	烟	0xE077	6356	蒴	0xFB99	11789
仲	0x9287	3571	炬	0xE078	6357	蕓	0xFB9A	11790
宙	0x9288	3572	炸	0xE079	6358	蕙	0xFB9B	11791
忠	0x9289	3573	炳	0xE07A	6359	董	0xFB9C	11792
抽	0x928A	3574	炮	0xE07B	6360	藹	0xFB9D	11793
昼	0x928B	3575	烟	0xE07C	6361	薰	0xFB9E	11794
柱	0x928C	3576	杰	0xE07D	6362	蕻	0xFB9F	11801
注	0x928D	3577	蒸	0xE07E	6363	蚌	0xFBA0	11802
虫	0x928E	3578	烙	0xE080	6364	螻	0xFBA1	11803
衷	0x928F	3579	焉	0xE081	6365	裴	0xFBA2	11804
註	0x9290	3580	烽	0xE082	6366	訃	0xFBA3	11805
耐	0x9291	3581	焜	0xE083	6367	諄	0xFBA4	11806
鑄	0x9292	3582	焙	0xE084	6368	詹	0xFBA5	11807
駐	0x9293	3583	煥	0xE085	6369	誦	0xFBA6	11808
禱	0x9294	3584	熙	0xE086	6370	閻	0xFBA7	11809
豬	0x9295	3585	熙	0xE087	6371	謔	0xFBA8	11810
猪	0x9296	3586	煦	0xE088	6372	諸	0xFBA9	11811
苧	0x9297	3587	榮	0xE089	6373	謹	0xFBAA	11812
著	0x9298	3588	煌	0xE08A	6374	諛	0xFBAB	11813
貯	0x9299	3589	煖	0xE08B	6375	讜	0xFBAC	11814
丁	0x929A	3590	煬	0xE08C	6376	贖	0xFBAD	11815
兆	0x929B	3591	熏	0xE08D	6377	賴	0xFBAAE	11816
涸	0x929C	3592	燻	0xE08E	6378	賢	0xFBAAF	11817
喋	0x929D	3593	熄	0xE08F	6379	趕	0xFBB0	11818
寵	0x929E	3594	煩	0xE090	6380	赳	0xFBB1	11819
帖	0x929F	3601	熨	0xE091	6381	軌	0xFBB2	11820
帳	0x92A0	3602	熬	0xE092	6382	返	0xFBB3	11821
庁	0x92A1	3603	爛	0xE093	6383	逸	0xFBB4	11822
弔	0x92A2	3604	熹	0xE094	6384	違	0xFBB5	11823
張	0x92A3	3605	熾	0xE095	6385	郎	0xFBB6	11824
彫	0x92A4	3606	燒	0xE096	6386	都	0xFBB7	11825



Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
微	0x92A5	3607	燉	0xE097	6387	鄉	0xFBB8	11826
慳	0x92A6	3608	燻	0xE098	6388	鄧	0xFBB9	11827
挑	0x92A7	3609	燎	0xE099	6389	釩	0xFBBA	11828
暢	0x92A8	3610	燠	0xE09A	6390	釧	0xFBBB	11829
朝	0x92A9	3611	燬	0xE09B	6391	釩	0xFBBC	11830
潮	0x92AA	3612	燧	0xE09C	6392	釨	0xFBBD	11831
牒	0x92AB	3613	燵	0xE09D	6393	釩	0xFBBE	11832
町	0x92AC	3614	燼	0xE09E	6394	釩	0xFBBF	11833
眺	0x92AD	3615	燹	0xE09F	6401	釩	0xFBC0	11834
聽	0x92AE	3616	燿	0xE0A0	6402	釩	0xFBC1	11835
脹	0x92AF	3617	爍	0xE0A1	6403	釩	0xFBC2	11836
腸	0x92B0	3618	爐	0xE0A2	6404	釩	0xFBC3	11837
蝶	0x92B1	3619	爛	0xE0A3	6405	釩	0xFBC4	11838
調	0x92B2	3620	爨	0xE0A4	6406	鉀	0xFBC5	11839
謀	0x92B3	3621	爭	0xE0A5	6407	鉀	0xFBC6	11840
超	0x92B4	3622	爬	0xE0A6	6408	鉀	0xFBC7	11841
跳	0x92B5	3623	爰	0xE0A7	6409	鉀	0xFBC8	11842
銚	0x92B6	3624	爲	0xE0A8	6410	鉀	0xFBC9	11843
長	0x92B7	3625	爻	0xE0A9	6411	鉀	0xFBCA	11844
頂	0x92B8	3626	俎	0xE0AA	6412	鉀	0xFBCB	11845
烏	0x92B9	3627	爿	0xE0AB	6413	鉀	0xFBCC	11846
勅	0x92BA	3628	牀	0xE0AC	6414	鉀	0xFBCD	11847
抄	0x92BB	3629	牆	0xE0AD	6415	鉀	0xFBCE	11848
直	0x92BC	3630	牋	0xE0AE	6416	鉀	0xFBCF	11849
朕	0x92BD	3631	牘	0xE0AF	6417	鉀	0xFBD0	11850
沈	0x92BE	3632	牴	0xE0B0	6418	鉀	0xFBD1	11851
珍	0x92BF	3633	牾	0xE0B1	6419	鉀	0xFBD2	11852
賃	0x92C0	3634	犁	0xE0B2	6420	鉀	0xFBD3	11853
鎮	0x92C1	3635	犁	0xE0B3	6421	鉀	0xFBD4	11854
陳	0x92C2	3636	犇	0xE0B4	6422	鉀	0xFBD5	11855
津	0x92C3	3637	犒	0xE0B5	6423	鉀	0xFBD6	11856
墜	0x92C4	3638	犖	0xE0B6	6424	鉀	0xFBD7	11857
椎	0x92C5	3639	犗	0xE0B7	6425	鉀	0xFBD8	11858
植	0x92C6	3640	犘	0xE0B8	6426	鉀	0xFBD9	11859
追	0x92C7	3641	犹	0xE0B9	6427	鉀	0xFBDA	11860
鎚	0x92C8	3642	豺	0xE0BA	6428	鉀	0xFBDB	11861
痛	0x92C9	3643	狃	0xE0BB	6429	鉀	0xFBDC	11862
通	0x92CA	3644	狃	0xE0BC	6430	鉀	0xFBDD	11863
塚	0x92CB	3645	狄	0xE0BD	6431	鉀	0xFBDE	11864

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
柁	0x92CC	3646	狎	0xE0BE	6432	鍍	0xFBDF	11865
榘	0x92CD	3647	狒	0xE0BF	6433	銻	0xFBEO	11866
榘	0x92CE	3648	狓	0xE0C0	6434	銻	0xFBEE	11867
佃	0x92CF	3649	狠	0xE0C1	6435	銻	0xFBE2	11868
漬	0x92D0	3650	狡	0xE0C2	6436	鏽	0xFBE3	11869
柘	0x92D1	3651	狹	0xE0C3	6437	鏽	0xFBE4	11870
辻	0x92D2	3652	狛	0xE0C4	6438	銻	0xFBE5	11871
蔦	0x92D3	3653	倏	0xE0C5	6439	鏽	0xFBE6	11872
綴	0x92D4	3654	猗	0xE0C6	6440	鏽	0xFBE7	11873
鐳	0x92D5	3655	猗	0xE0C7	6441	閒	0xFBE8	11874
椿	0x92D6	3656	猜	0xE0C8	6442	隆	0xFBE9	11875
漬	0x92D7	3657	狙	0xE0C9	6443	隴	0xFBFA	11876
坪	0x92D8	3658	猝	0xE0CA	6444	隴	0xFBEB	11877
壺	0x92D9	3659	猴	0xE0CB	6445	隴	0xFBEC	11878
孀	0x92DA	3660	獮	0xE0CC	6446	霍	0xFBED	11879
紬	0x92DB	3661	猩	0xE0CD	6447	霍	0xFBEE	11880
爪	0x92DC	3662	猥	0xE0CE	6448	霍	0xFBEE	11881
吊	0x92DD	3663	猥	0xE0CF	6449	霍	0FBF0	11882
釣	0x92DE	3664	獎	0xE0D0	6450	霍	0FBF1	11883
鶴	0x92DF	3665	猥	0xE0D1	6451	青	0FBF2	11884
亭	0x92E0	3666	默	0xE0D2	6452	靖	0FBF3	11885
低	0x92E1	3667	獺	0xE0D3	6453	顛	0FBF4	11886
停	0x92E2	3668	獺	0xE0D4	6454	顛	0FBF5	11887
偵	0x92E3	3669	獨	0xE0D5	6455	飯	0FBF6	11888
剃	0x92E4	3670	獯	0xE0D6	6456	飼	0FBF7	11889
貞	0x92E5	3671	獸	0xE0D7	6457	餒	0FBF8	11890
呈	0x92E6	3672	獵	0xE0D8	6458	館	0FBF9	11891
堤	0x92E7	3673	獻	0xE0D9	6459	辭	0FBFA	11892
定	0x92E8	3674	獺	0xE0DA	6460	驎	0FBFB	11893
帝	0x92E9	3675	珈	0xE0DB	6461	高	0FBFC	11894
底	0x92EA	3676	玳	0xE0DC	6462	謁	0FC40	11901
庭	0x92EB	3677	玳	0xE0DD	6463	紛	0FC41	11902
廷	0x92EC	3678	玻	0xE0DE	6464	鮪	0FC42	11903
弟	0x92ED	3679	珀	0xE0DF	6465	鮪	0FC43	11904
梯	0x92EE	3680	珥	0xE0E0	6466	鮪	0FC44	11905
抵	0x92EF	3681	珥	0xE0E1	6467	鮪	0FC45	11906
挺	0x92F0	3682	珞	0xE0E2	6468	鮪	0FC46	11907
提	0x92F1	3683	璣	0xE0E3	6469	鵬	0FC47	11908
梯	0x92F2	3684	琅	0xE0E4	6470	鵬	0FC48	11909

Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten	Character	Shift-JIS	Kuten
汀	0x92F3	3685	瑯	0xE0E5	6471	鶴	0xFC49	11910
碇	0x92F4	3686	琥	0xE0E6	6472	鶺鴒	0xFC4A	11911
禎	0x92F5	3687	瑤	0xE0E7	6473	黒	0xFC4B	11912
程	0x92F6	3688	球	0xE0E8	6474			

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