

The Edit screen for that particular Preset Bolus appears.

4. Select **Bolus** to set the bolus amount.
5. Select **Type** to set this as a Normal bolus, Square Wave bolus, or Dual Wave bolus.



Note: The **Type** field appears only when you have the Dual Wave bolus or Square Wave bolus features turned on.

If you set the type to Square Wave or Dual Wave, additional settings appear.

6. If you are setting up a Square Wave bolus or Dual Wave bolus, do the following:
 - For a Square Wave bolus, set the **Duration** of time for the bolus delivery.
 - For a Dual Wave bolus, adjust the **Now/Square** percentages as needed, then set the **Duration** of time for the Square Wave portion of the bolus.



Note: If you later turn off the Dual Wave or Square Wave feature, your existing Preset Bolus settings are still available for use.

7. Select **Save**.

Changing, renaming, or deleting a Preset Bolus

You cannot delete, rename, or edit a Preset Bolus while it is delivering.



Note: You cannot edit a Dual Wave or Square Wave Preset Bolus when the Dual Wave or Square Wave features are turned off. You can, however, rename or delete a Dual Wave or Square Wave Preset Bolus when the features are turned off.

To change, rename, or delete a Preset Bolus:

1. Go to the Preset Bolus Setup screen.

Menu > Insulin Settings > Preset Bolus Setup

The Preset Bolus Setup screen appears, showing any existing Preset Bolus settings.



2. Select the desired Preset Bolus.
3. Select **Options**.
4. Do one of the following:
 - Select **Edit** to adjust the Bolus value and Type, if applicable. If you change to a Square Wave bolus, you need to enter the Duration. If you change to a Dual Wave bolus, you need to enter the Now and Square amounts, and the Duration.
 - Select **Rename** to assign a different name to this Preset Bolus. When the Select Name screen appears, you can select any available name from the list.
 - Select **Delete** to delete this Preset Bolus.

Delivering a Preset Bolus

Follow these steps to deliver a Preset Bolus. You must set up Preset Bolus deliveries before you can use the Preset Bolus feature. For more information, see *Setting up and managing Preset Bolus deliveries*, on page 85.

To deliver a Preset Bolus:

1. Go to the Home screen.
2. Select **Bolus**.
The Bolus screen appears.
3. Select **Preset Bolus**.
The existing preset bolus settings appear, showing your current BG value (if applicable) and any insulin that is still active from previous boluses. For more information about active insulin, see *About active insulin*, on page 71.
4. Select the Preset Bolus you want to deliver.
5. Verify your bolus amounts, and then select **Deliver Bolus**.
Your pump beeps or vibrates and displays a message when your bolus starts.

Stopping a bolus delivery

The following procedures describe how to stop a Normal bolus or a Dual Wave bolus during the Now portion delivery, and how to stop a Square Wave bolus or a Dual Wave bolus during the Square portion delivery.



Note: This procedure describes how to stop a bolus that is in progress. It does not stop your basal insulin delivery. If you need to stop all insulin delivery, use the Suspend Delivery feature (Menu > Suspend Delivery).

To stop a Normal bolus delivery or the Now portion of a Dual Wave bolus delivery:

1. While your pump is delivering your Normal bolus or the Now portion of a Dual Wave bolus, select **Stop Bolus** from the Home screen.



2. To stop your bolus, select **Yes** to confirm.



Note: If you are delivering a Normal bolus and a Square Wave bolus at the same time, or a Normal bolus and the Square portion of a Dual Wave bolus at the same time, both boluses are stopped.

The Bolus Stopped screen appears and shows the amount of bolus delivered, and the original bolus amount you set up.

To stop a Square Wave bolus delivery or the Square portion of a Dual Wave bolus delivery:

1. Select **Bolus (S)** or **Bolus (D)** from the Home screen.
2. Select **Stop Bolus**.
3. To stop your bolus, select **Yes** to confirm.



Note: If you are delivering a Normal bolus and a Square Wave bolus at the same time, or a Normal bolus and the Square portion of a Dual Wave bolus at the same time, both boluses are stopped.

The Bolus Stopped screen appears and shows the amount of bolus delivered, and the original bolus amount you set up.

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reservoir and infusion set

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5 Reservoir and infusion set

Setting up the reservoir and infusion set

When you are ready to use your pump with insulin, make sure the time and date are correct on your pump. For details on changing the time and date on your pump, see *Time and date, on page 148*. You must also program your settings as instructed by your healthcare professional.

You will need these items:

- MiniMed 640G insulin pump
- Vial of insulin (U100)
- MiniMed reservoir
- MiniMed-compatible infusion set and its user guide



WARNING: If this is the first time you are using your pump with insulin, and you have practiced giving boluses on your pump, you need to clear the active insulin value before starting on insulin. For details, see *Clearing your active insulin, on page 144*.

Removing the reservoir

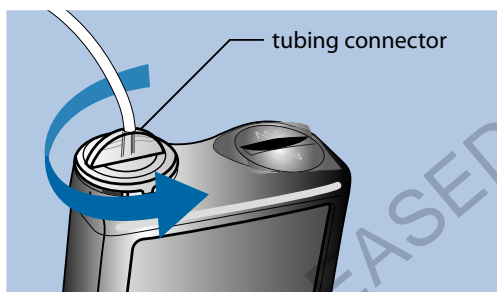
If this is the first time you are inserting a reservoir into your pump and you do not currently have a reservoir loaded, skip to *Rewinding your pump, on page 94*.



WARNING: Make sure the infusion set is disconnected from your body before you remove the reservoir from your pump.

To remove your reservoir:

1. Wash your hands.
2. Remove the entire infusion set from your body.
3. If you have the optional activity guard attached to the reservoir compartment on your pump, remove it now.
4. Turn the tubing connector a half-turn counter-clockwise, then pull the reservoir and connector out from the pump.



5. Dispose of the used reservoir and infusion set according to local regulations.

Rewinding your pump

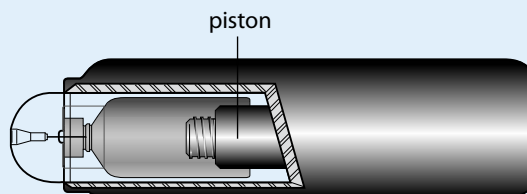


WARNING: Make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which may cause low BG.

When you rewind your pump, the piston in the reservoir compartment returns to its starting position and allows a new reservoir to be placed into the pump.



Note: The piston is located in the reservoir compartment of your pump. It engages the reservoir and pushes insulin through the tubing.



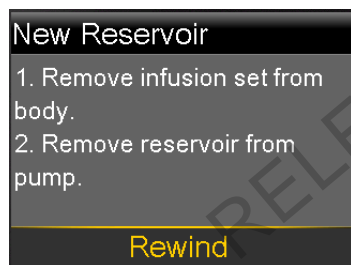
To rewind your pump:

1. Go to the New Reservoir screen.

Menu > Reservoir & Tubing > New Reservoir

The New Reservoir screen appears.

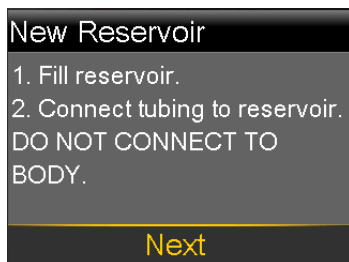
If you have not yet removed the infusion set and reservoir, do so now.



2. Select **Rewind**.

The piston in the reservoir compartment of your pump returns to its starting position. This may take several seconds. During this process, a "Rewinding" message appears.

Another message appears to let you know that your pump has finished rewinding, and then the New Reservoir screen appears.

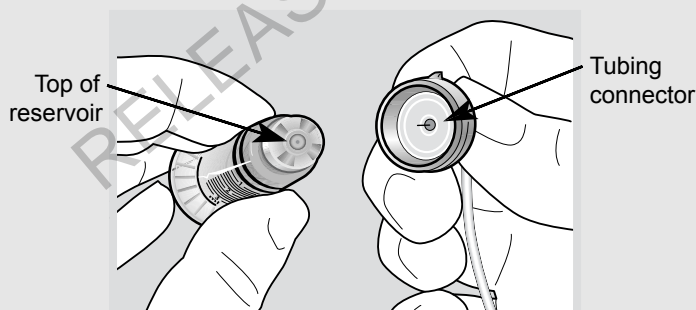


3. Follow the instructions in the next section to fill your reservoir.

Filling the reservoir



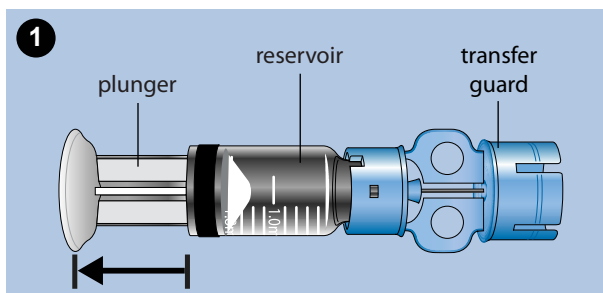
WARNING: Do not use the reservoir or infusion set if any liquid gets on the top of the reservoir or inside the tubing connector (as shown in the image). Liquid can temporarily block the vents. This may result in the delivery of too little or too much insulin, which can cause hypoglycemia or hyperglycemia. If any liquid gets on the top of the reservoir or inside the tubing connector, start over with a new reservoir and infusion set.



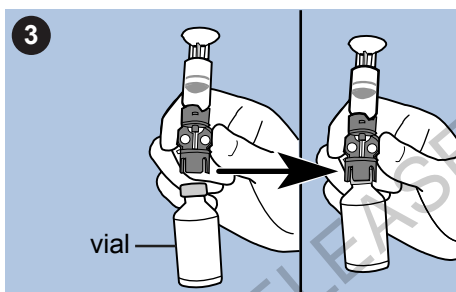
WARNING: Always allow your insulin to reach room temperature before use. Cold insulin can cause air bubbles in the reservoir and tubing which may result in inaccurate insulin delivery.

To fill the reservoir, do these steps:

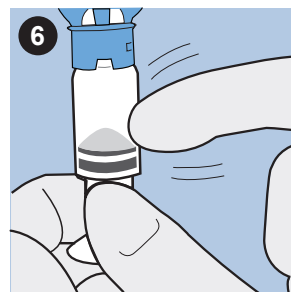
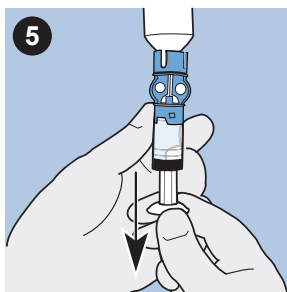
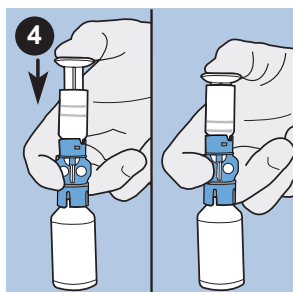
1. Remove the reservoir from the package, and fully extend the plunger.



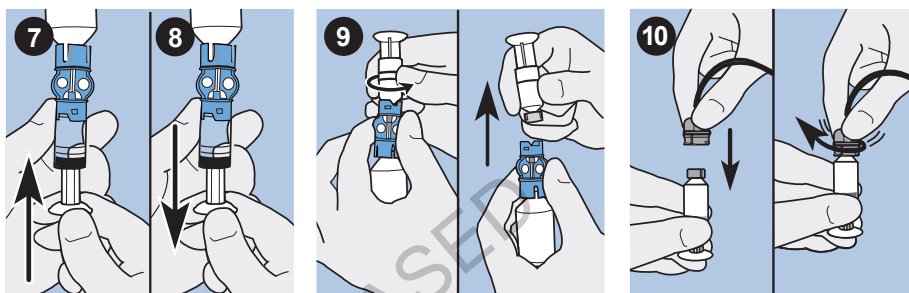
2. Swab the vial with alcohol (not shown).
3. Press the transfer guard onto the vial without pushing down on the plunger.



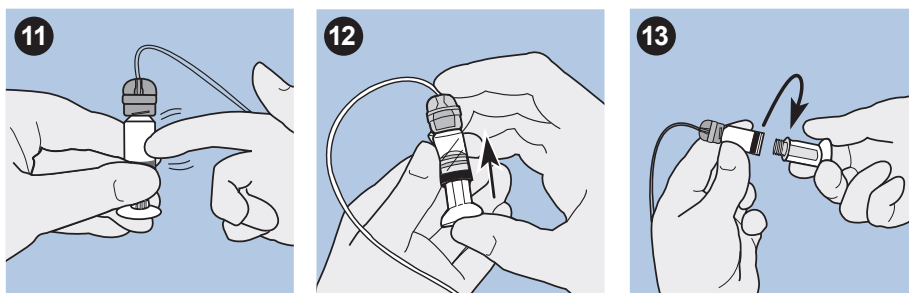
4. Push down on the plunger to pressurize the vial. Hold down the plunger rod.
5. While still holding down the plunger rod, flip the vial over so the vial is on top. Slowly pull down on the plunger to fill the reservoir.
6. Gently tap the side of the reservoir to make any air bubbles rise to the top of the reservoir.



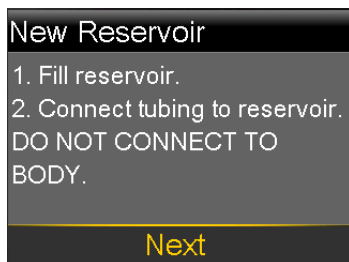
7. Slowly push up on the plunger just enough to remove any air bubbles from the reservoir.
8. Slowly pull down on the plunger to fill the reservoir to the number of units desired.
9. To avoid getting liquid on the top of the reservoir, flip the vial over so that it is upright. Turn the reservoir counter-clockwise, then pull straight up to remove the reservoir from the transfer guard.
10. Place the tubing connector onto the reservoir. Turn the connector clockwise, pressing gently against the reservoir until you feel it slide in. Push in and continue turning until the reservoir and the connector lock with a click.



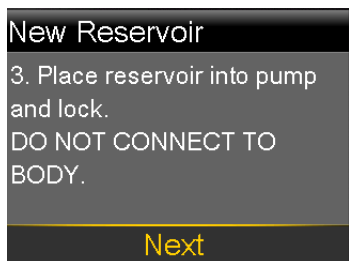
11. Tap the side of the reservoir to remove any air bubbles.
12. To purge air bubbles that have risen to the top of the reservoir, push up on the plunger until you see insulin in the tubing.
13. Without pulling, turn the plunger counter-clockwise to remove it from the reservoir.



14. Select **Next** from the New Reservoir screen.



The New Reservoir screen now instructs you to place the reservoir in your pump.



Note: If the New Reservoir screen has timed out and the Home screen appears, select **Load Reservoir** from the Home screen.

15. Follow the instructions in the next section to insert the reservoir into the reservoir compartment of your pump immediately after filling it.

Inserting the reservoir into your pump

Be sure to perform the following steps in the order they are presented.



Caution: Do not insert the reservoir into your pump for the first time until you have received training.

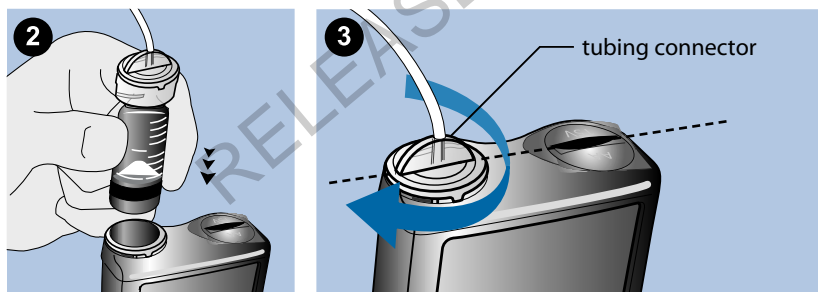


WARNING: Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which may cause low BG.

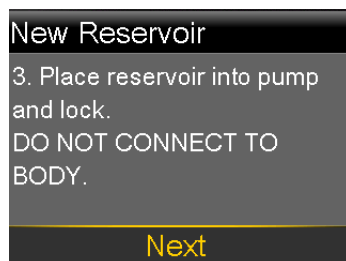
You must rewind your pump before installing a new reservoir to ensure correct insulin amount.

To insert the reservoir into your pump:

1. If you are using the pump for the first time, remove the shipping cap from the reservoir compartment.
2. Rewind your pump if you have not yet done so. See *Rewinding your pump*, on page 94 for more information.
3. Insert the reservoir into the top of the reservoir compartment.
4. Turn the tubing connector approximately a half-turn clockwise until the connector is locked. The tubing connector should be aligned horizontally with the pump case as shown in the following example.



5. Your pump should be displaying the New Reservoir screen shown in the following example. Select **Next** to continue.





Note: If the New Reservoir screen has timed out and the Home screen appears, select **Load Reservoir** from the Home screen. After the New Reservoir screen appears, you may have to select **Next** to get to the screen shown previously.

- When the reservoir is inserted, select and hold **Load** until you see a checkmark on the screen and your pump beeps or vibrates. Holding **Load** moves the piston up in the reservoir compartment until it engages with the bottom of the reservoir.



Note: If you press the **Back** button after the loading process begins, a Loading incomplete alarm will occur.

When the loading process is completed, the following screen appears.



- Select **Next** to continue.
- Follow the instructions in the next section to fill the tubing with insulin.

Filling the tubing

You need to fill the infusion set tubing with insulin before you insert the set into the body.



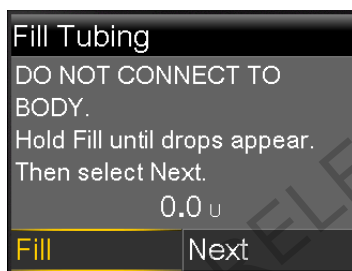
WARNING: Make sure the infusion set is disconnected from your body before you rewind your pump or fill the infusion set tubing. Never insert the reservoir into the pump while the tubing is connected to your body. Doing so could result in an accidental infusion of insulin, which may cause low BG.



WARNING: Always check your tubing for air bubbles. Continue to press **Fill** until the bubbles have been removed from the tubing. Air bubbles may result in inaccurate insulin delivery.

To fill the tubing:

1. After you load your reservoir and select **Next** from the Load Reservoir screen, the Fill Tubing screen appears.



2. Select and hold **Fill**. Your pump beeps six times to let you know it is positioning the reservoir. Continue holding **Fill** until insulin droplets form on the tip of the infusion set needle, then release. Your pump beeps as it fills the tubing, and the amount of insulin you are using appears on the screen. If you get the Max Fill Reached alarm, it means you have used more than 30 units of insulin to fill your tubing. For details, go to *Pump alarms, alerts, and messages, on page 202*, and see the description for Max Fill Reached.
3. Select **Next** to continue.
4. Follow the instructions in the next section to insert the infusion set into your body before filling the cannula.

Inserting the infusion set



WARNING: Do not remove the reservoir from the pump while the infusion set is connected to your body. This could lead to over or under delivery of insulin.

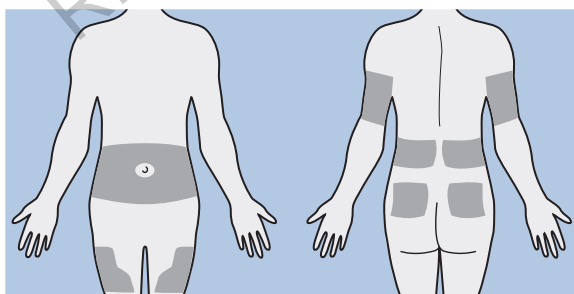
You must have completed the following procedures, as described previously, before inserting the infusion set into your body:

- Rewinding your pump.
- Filling your reservoir.
- Inserting the reservoir into pump.
- Filling the tubing with insulin.

Shown here are the best body areas (shaded) for infusion set insertion. Avoid the 5.0 cm (2-inch) area around the navel to help ensure a comfortable infusion site and to help with adhesion.



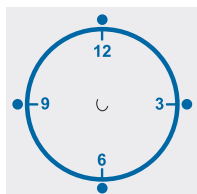
Caution: Rotate the infusion set insertion sites so that they do not become overused.



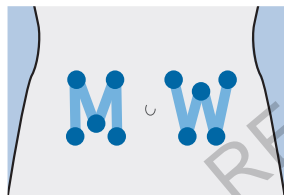
Caution: Change your infusion set every two to three days to avoid infusion set occlusion or site infection.

To keep sites healthy, some people find it helpful to use a visual scheme to help them rotate their insertion sites in an organized way. For example, here are two commonly used methods. For maximum effectiveness, use both methods, alternating between them:

- Visualize an imaginary clock drawn on your abdomen surrounding your belly button. Rotate infusion set insertion sites by starting at 12 o'clock and then rotate the site clockwise to 3 o'clock, 6 o'clock, and so on.



- Imagine a letter M or a letter W on either side of your belly button. Start at the end of one letter and proceed through the letter, rotating to each intersection in turn.

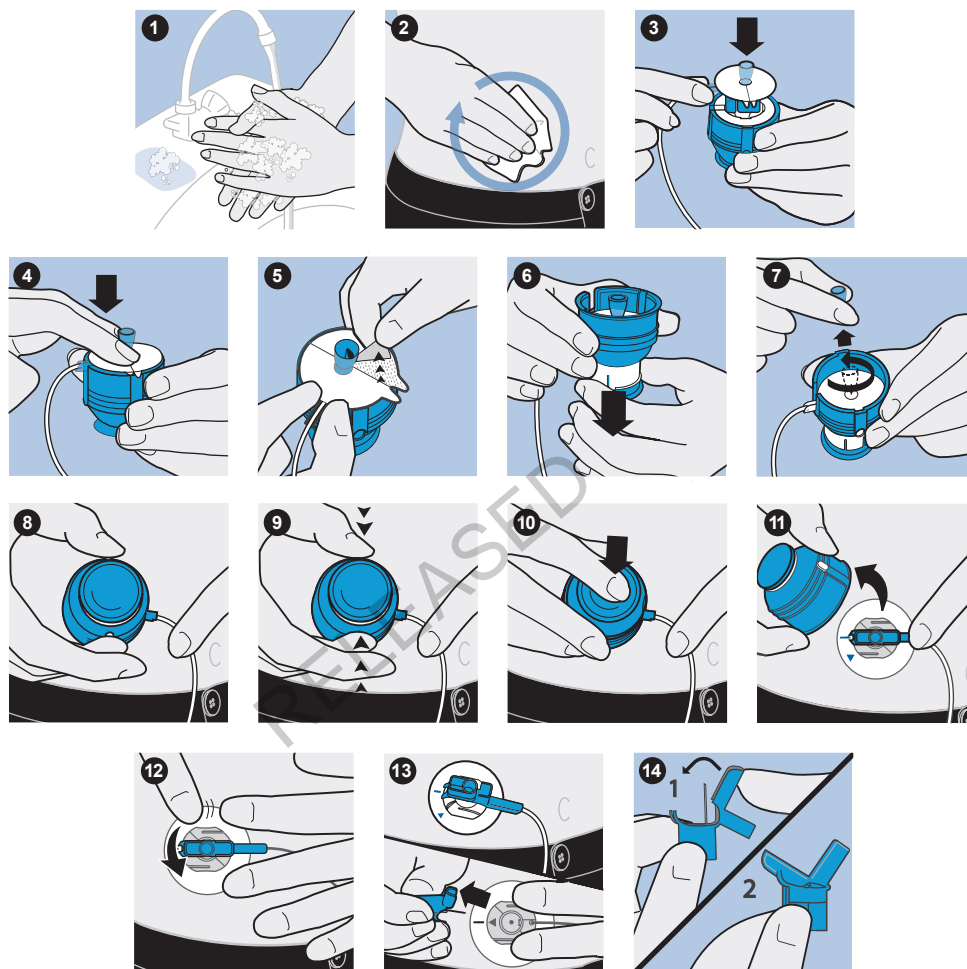


Medtronic Diabetes offers a variety of infusion sets for your pump. The instructions for the Quick-set infusion set are provided here as an example.

After your infusion set is inserted, see *Filling the cannula*, on page 105 to fill the infusion set cannula.

Quick-set infusion set (with Quick-serter™)

There are different infusion sets that you can use with your pump. As an example, the following procedure shows how to insert the Quick-set infusion set. Always refer to the instructions that shipped with your infusion set.



Filling the cannula

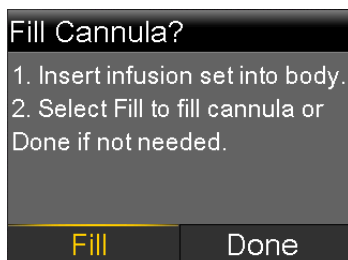
Filling the soft cannula with insulin is required after the infusion set is inserted into your body and the introducer needle is pulled out. The insulin amounts required to fill the cannula depend on the type of infusion set you are using. Refer to your infusion set instructions for this information.



Note: If you are using an infusion set with a needle, you do not need to fill the cannula. Select **Done** when the system prompts you to continue with the fill process.

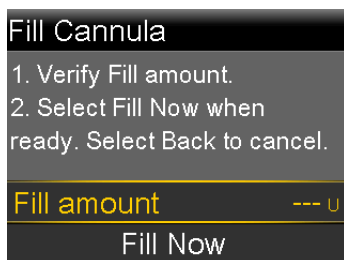
To fill the cannula:

1. After you fill your tubing and insert your infusion set, the Fill Cannula? screen appears.



Note: If your screen turns off before you are ready to fill your cannula, press any button on your pump to turn it on again.

2. To fill your cannula now, select **Fill**. If you are using an infusion set with a needle, you do not need to fill the cannula. Select **Done** to skip this step. The Fill Cannula screen appears.



3. Adjust the Fill amount for your particular infusion set, and then select **Fill Now**. If you are unsure about the fill amount, see the instructions that came with your infusion set.
4. As the cannula starts filling, your screen displays the amount of units being delivered. The pump beeps or vibrates when the delivery is complete.

After the cannula is filled, the Home screen appears. Your pump is now ready to deliver insulin.

To stop filling the cannula:

1. Select **Stop Filling**, to stop filling the cannula.



2. Select **Yes**.
The Fill Stopped screen appears confirming amount delivered.
3. Select **Done**.

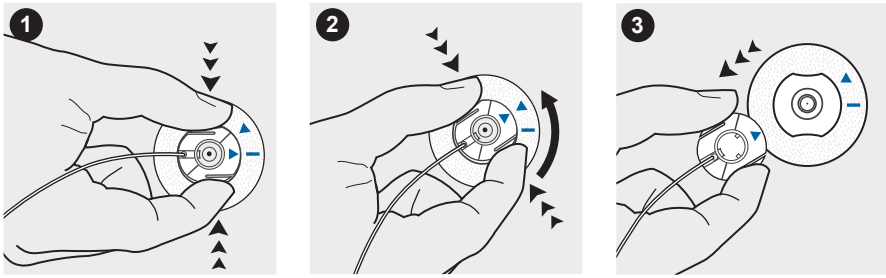
Disconnecting and reconnecting your infusion set

As an example, these steps show you how to disconnect and reconnect the Quick-set infusion set. If you are using an infusion set other than Quick-set, always refer to the instructions that shipped with the infusion set.

Disconnecting the Quick-set infusion set

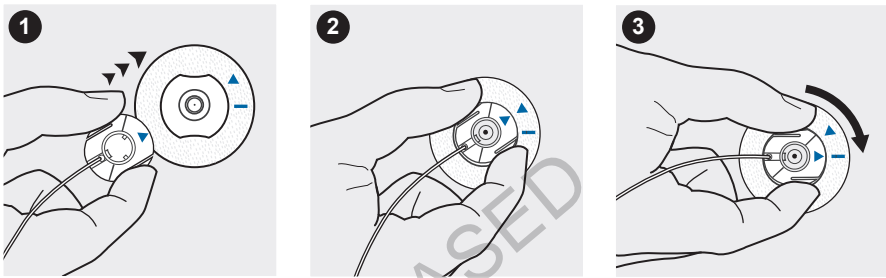
The Quick-set infusion set allows you the freedom to temporarily disconnect from your pump without removing the infusion set from your body.

1. Hold the side grips of the connector part with your fingers.
2. Twist the connector counter-clockwise.
3. Remove the connector from the site.



Reconnecting the Quick-set infusion set

Place the connector part (flat side facing down) on the infusion site until it is fully seated. Do not squeeze the connector part by the flat side grips.



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meter

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Meter

You can wirelessly connect up to six compatible Bayer meters to your pump. If you do not connect a meter to your pump, you must enter your blood glucose readings manually. To wirelessly connect your pump and meter, you will need the following items:

- MiniMed 640G insulin pump
- Compatible Bayer meter
- Compatible Bayer meter user guide

About your compatible Bayer meter

You can set up your pump to automatically receive blood glucose readings from your compatible Bayer meter. When the pump is on the Home screen, it beeps or vibrates when it receives a blood glucose reading from the meter. Your BG Meter screen appears, where you can view your current blood glucose reading and, if necessary, deliver a bolus. Once received, your BG values will appear on your pump screen for 12 minutes, along with any insulin that is still active from any previous boluses. If your blood glucose reading is outside the range of 70 to 250 mg/dL, the pump displays an alert. In this case, treat your low blood glucose or high blood glucose as directed by your healthcare professional.

The compatible Bayer meter may not be available in all countries.

You can also deliver a Normal Bolus or Preset Bolus from your compatible Bayer meter. For more information about setting up your pump to use the Remote Bolus feature, see *Setting up Remote Bolus*, on page 112. Consult your healthcare professional before using the Remote Bolus feature.

Wirelessly connecting your pump and meter

Always refer to your compatible Bayer meter user guide for instructions on connecting the meter to the pump.

Setting up Remote Bolus

Remote Bolus allows you to send a Normal Bolus or Preset Bolus remotely from your meter. To access this option, your compatible Bayer meter and pump must be wirelessly connected, and the Remote Bolus option on your pump must be turned on. Consult your healthcare professional before using the Remote Bolus feature.

The following procedure describes how to turn the Remote Bolus feature on or off. For information on using Remote Bolus, see the user guide that came with your compatible Bayer meter.



Note: Remote Bolus default setting is on.

To turn on or off Remote Bolus:

1. Make sure that your pump and compatible Bayer meter are connected.
2. Go to the Remote Bolus screen.

Menu > Utilities > Remote Bolus

The Remote Bolus screen appears.

3. Select **Remote Bolus** to turn the feature on or off.
4. Select **Save**.

Deleting a meter from your pump

Follow this procedure to delete your compatible Bayer meter from the pump.

To delete the meter from the pump:

1. Go to the Manage Devices screen.

Menu > Utilities > Device Options > Manage Devices

The Manage Devices screen appears.

2. Identify and select your meter by the serial number. See your compatible Bayer meter user guide for instructions on locating your serial number.
3. Select **Delete**.
4. A screen appears confirming that you would like to delete the device. Select **Yes** to confirm or **No** to cancel.

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7



history and events

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7 History and events

This chapter describes the History and Event Markers features. The History screens provide personal pump therapy details, including information about your insulin deliveries, BG meter readings, sensor glucose (SG) readings, and any alarms and alerts you received. The Event Markers feature allows you to enter and save information, such as manual BG readings, carbohydrates eaten, and exercise.

History

The History feature includes the Summary, Daily History, and Alarm History screens. The SG Review and ISIG History screens are available if you are using the Sensor feature.

Summary screen

The Summary screen shows details about past insulin deliveries and meter readings. If you are using a sensor, the Summary screen also shows information about your sensor alerts and sensor glucose readings.

You can view historical details for a single day, or you can select multiple days to view an average of all the results for the number of days that you selected.

To view your Summary screen:

1. Go to the Summary screen.
Menu > History > Summary
2. Select the time period for the Summary screen.

The Summary screen appears, showing information for the number of days that you selected.

- You can scroll down to view the entire screen. If you are using the 1 Day view, you can use the < and > buttons on your pump to view the results for each day in history.

Understanding the Summary screen

The Summary screen separates information into five categories:

- overview
- bolus
- BG meter
- sensor
- SmartGuard

Summary screen: overview

The following table describes the overview portion of the Summary screen.



Note: If you are viewing a single day of Summary results, then the values shown are the actual results for the selected day. If you are viewing more than one day of Summary results, then the value is an average of the days that you selected.

Name	Description
TDD	Total daily dose of insulin units.
Basal	<ul style="list-style-type: none"> Insulin units devoted to basal delivery. Percentage of insulin devoted to basal delivery.
Bolus	<ul style="list-style-type: none"> Insulin units devoted to bolus delivery. Percentage of insulin devoted to bolus delivery.
Total Carbs	Daily carbohydrate amount, in grams or exchanges.

Summary screen: Bolus

The following table describes the bolus portion of the Summary screen:



Note: If you are viewing a single day of Summary results, then the values shown are the actual results for the selected day. If you are viewing more than one day of Summary results, then the value is an average of the days that you selected.

Name	Description
Carb bolus only	<ul style="list-style-type: none"> Total insulin units delivered using the Bolus Wizard with food amount only. Number of times the Bolus Wizard delivered a food bolus only.
BG Correction only	<ul style="list-style-type: none"> Total insulin units delivered using the Bolus Wizard with BG correction amount only. Number of times the Bolus Wizard delivered a BG correction bolus only.
Carb bolus + BG Correction	<ul style="list-style-type: none"> Total insulin units delivered using the Bolus Wizard with food and BG correction amount. Number of times the Bolus Wizard delivered a carb and BG correction bolus.
Manual Bolus	<ul style="list-style-type: none"> Total bolus insulin units delivered using Manual Bolus, Preset Bolus, or Easy Bolus. Number of bolus deliveries using Manual Bolus, Preset Bolus, or Easy Bolus.

Summary screen: BG meter

The following table describes the BG meter portion of the Summary screen:

Name	Description
BG	Total number of BG meter readings, including readings from a compatible Bayer meter and BG meter readings entered manually.
Average BG	Average BG meter readings.
Meter Low	Lowest BG meter readings received from a compatible Bayer meter.

Name	Description
Meter High	Highest BG meter readings received from a compatible Bayer meter.
Manual Low	Lowest BG meter readings entered manually.
Manual High	Highest BG meter readings entered manually.

Summary screen: Sensor

The following table describes the sensor portion of the Summary screen. If the sensor feature has never been turned on, this portion of the screen does not appear. If the sensor feature was turned on at least once, but is currently turned off, this portion of the screen appears gray.

Name	Description
SG Average	Average sensor glucose value.
SG Std. Dev.	Standard deviation of the SG readings.
Above High Limit	Percentage of SG readings that were above your high glucose alert limit. If you have not set a high glucose alert limit, your pump uses the default values. For more details on setting your high glucose alert limit, see <i>High settings, on page 156</i> .
Within Limits	Percentage of SG readings that were between your high and low glucose alert limits. If you have not set your high and low glucose alert limits, your pump uses the default values. For more details on setting your high and low glucose alert limits, see <i>High settings, on page 156</i> and <i>Low settings, on page 157</i> .
Below Low Limit	Percentage of SG readings that were below your low glucose alert limit. If you have not set a low glucose alert limit, your pump uses the default values. For more details on setting your low glucose alert limit, see <i>Low settings, on page 157</i> .
Alert before high	Number of Alert before high alerts that occurred.
Alert on high	Number of Alert on high alerts that occurred.
Rise Alert	Number of Rise alerts that occurred.
Alert before low	Number of Alert before low alerts that occurred.
Alert on low	Number of Alert on low alerts that occurred.

Summary screen: SmartGuard

The following table describes the SmartGuard portion of the Summary screen. For details on the SmartGuard feature, see *SmartGuard*, on page 152.

Name	Description
Suspend before low	The average number of Suspend before low events per day.
Suspend on low	The average number of Suspend on low events per day.
Time suspended by sensor	The average duration (amount of time) suspended as a result of Suspend on low or Suspend before low events per day.
# SG readings	Number of SG readings per day.

Daily History

The Daily History screen displays a list of actions you performed on your pump or event entries that you made for the selected day, such as your BG meter readings, bolus deliveries, any temp basal rates you have used, and so on. The list displays the most recent action or event first. From this list, you can display further details about any action or event.

To view your Daily History:

- Go to the Daily History screen.
Menu > History > Daily History
 A list of dates appears.
- Select a specific date of history to view. A list appears with any pump actions or events entered on the specified day.
- You can select any item in the list to open the Detail screen, which displays more information about the selected action or event. For example, if you view the details of a bolus delivered using the Bolus Wizard, the Detail screen shows you all of the data associated with that bolus, such as the BG correction amount, active insulin adjustment, carbs entered, and calculated bolus.

Alarm History

The Alarm History screen displays a list of alarms and alerts that occurred on the selected day. The list displays the most recent alarm or alert first. From this list, you can display further details about any alarm or alert.

To view your Alarm History:

1. Go to the Alarm History screen.
Menu > History > Alarm History
A list of dates appears.
2. Select a specific date of alarm history to view. A list appears showing any alarms or alerts that occurred on the specified day.
3. You can select any alarm or alert in the list to open the Alarm Detail screen, which displays more information about the selected alarm or alert.

Using Sensor Glucose Review

The Sensor Glucose Review feature allows you to view a graph of your SG history, based on high and low limits you enter. You can view information for one day, or view an average of your SG data over a number of days.

This Sensor Glucose Review feature is available if you are using the Sensor feature.



Note: The limits that you set in this screen are for the purpose of viewing your sensor glucose data only, and are not the same as the High and Low Alert Limits used for your sensor alerts. Changing your Sensor Glucose Review limits does not affect your high and low glucose limits.

To review your sensor glucose history:

1. Go to the SG Review screen.
Menu > History > Sensor Glucose Review
The SG Review screen appears. The high and low limits that appear are either the values you entered for the last SG Review, or the default values of 180 mg/dL for the High Limit and 70 mg/dL for the Low Limit.

SG Review	22:00
High Limit	180 mg/dL
Low Limit	70 mg/dL
Days to Average	1
Next	

- Enter the High Limit and Low Limit that you want to use for the sensor glucose review.

There must be a minimum of 20 mg/dL difference between the high and low SG limits.

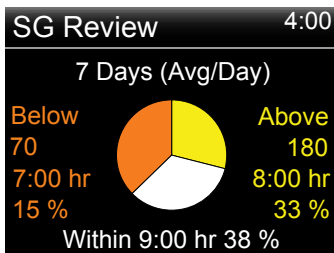
- Enter the number of days of sensor glucose history to average, and select **Next**.

A graph of your SG data appears. If you specified one day of history to view, the graph shows details about when your SG was above, below, or within your specified limits. You can scroll down to view the number of hours and percentage of time you were above, within, and below your SG limits.

If you have no data saved, a message appears on the screen letting you know there is no data available.



If you view information for multiple days, the graph shows the average percentage of time that your SG was above, below, or within your specific limits.



ISIG History

ISIG represents a signal measured by the sensor that is used to calculate your sensor glucose value. The ISIG History feature shows the history of your ISIG values over the previous 24-hour period. This information is primarily used by support personnel for troubleshooting, and is available only after you have turned on the Sensor feature.

To view your ISIG History:

1. Go to the ISIG History screen.
Menu > History > ISIG History
2. Select a time for which you want to view the ISIG history. The ISIG history appears for the hour you selected.

Event Markers

The Event Markers feature allows you to electronically save certain types of information.







When using this feature, enter events when they happen because the system records the time of the entry. You cannot change entries after you have put the information into your pump. You can view your saved events in the Daily History screen.

The entered information can be sent to CareLink™ Personal therapy management software. There it can be used to generate reports you can share with your healthcare professional.

To enter Event Markers:

1. Go to the Event Markers screen.
Menu > Event Markers

2. Select and enter event information for any of the following categories:

BG		If you are not using the Bolus Wizard or a compatible Bayer meter to record your BG meter readings in your pump, you can enter them here. If you are using a sensor, you may use a BG meter reading you enter here for calibration. You can also enter non-calibration BG meter readings, such as those readings taken when eating or when your BG is rising or falling rapidly.
Injection		Enter the number of units of any insulin you have given by injection.
<div style="background-color: #e1f5fe; padding: 10px; border: 1px solid #cfe2f3;">  Note: Insulin units entered using the injection event marker are not added to your Active Insulin amount tracked on the pump. </div>		
Food		Enter the amount of carbohydrates that you have eaten or drunk that have not been entered in the Bolus Wizard. For example, you might enter carbs that you ate to correct a low BG. Do not enter carbs here that you have already entered in the Bolus Wizard.
Exercise		Enter the length of time you exercised. It is helpful to be consistent and enter the information either before or after each time you exercise.
Other		Examples of Other event markers can include when you take medications, when you feel ill, or when you are under stress.

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reminders

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Reminders

Reminders help you remember to do important routine activities. There are specific reminders that prompt you to check your BG after a bolus, give a food bolus, check your reservoir level, and change your infusion set. There are also personal reminders you can use for any purpose. If you have the sensor feature turned on, the calibration reminder prompts you to calibrate your sensor.

Personal reminders

The Personal reminders include six numbered reminders, along with the specific reminders for BG Check and Medication.

To create a new Personal reminder:

1. Go to the Personal screen.
Menu > Reminders > Personal
2. Select **Add New**.
The Select Name screen appears showing the available reminders.
3. Select the reminder that you want to set.
The Edit screen appears for the selected reminder.
4. Enter the time that you want the reminder to occur.
5. Select **Save**. The Personal reminder occurs at the specified time each day unless you change or delete it.

To change, rename or delete an existing Personal reminder:

1. Go to the Personal screen.

Menu > Reminders > Personal

2. Select the reminder that you want to change.
3. Do one of the following:
 - Select **Reminder** to turn this reminder on or off.
 - Select **Edit** to change the time of the reminder.
 - Select **Rename** to select a new name for this reminder.
 - Select **Delete** to delete this reminder.

Bolus BG Check reminder

Bolus BG Check reminder helps you remember to check your blood glucose after a bolus. After you start a bolus, the pump asks you when you want to be reminded to check your blood glucose. The timer counts down from the time the bolus started.



Note: The Bolus BG Check reminder is not available when you deliver a bolus using the Remote Bolus feature from your compatible Bayer meter.

To turn on or turn off Bolus BG Check reminders:

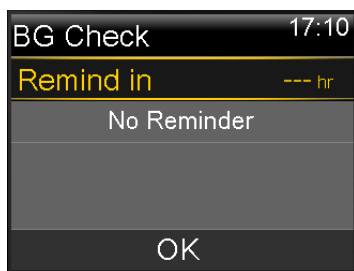
1. Go to the BG Check screen.

Menu > Reminders > Bolus BG Check

2. To turn the reminder on or off, select **Reminder**.
3. Select **Save**.

To use a Bolus BG Check reminder when delivering a bolus:

1. After you turn on the Bolus BG Check reminder, each time you start a bolus, the following screen appears:



2. Enter a time from 30 minutes to 5 hours, in 30 minute increments. Select **OK**. If you do not want a reminder after the bolus, select the dashes without adding a time, and then select **OK**. If needed, press \vee to return to the dashes.

Missed Meal Bolus reminder

The Missed Meal Bolus reminder alerts you if a bolus is not delivered within a time period that you set. These time periods are usually set around your typical meal times to help ensure a meal bolus is not missed. You can set up to eight Missed Meal Bolus reminders.

To create a new Missed Meal Bolus reminder:

1. Go to the Missed Meal Bolus screen.
Menu > Reminders > Missed Meal Bolus
2. Select **Add New**.
3. Select **Start Time**, and enter a time.
4. Select **End Time**, and enter a time. The time range is from one minute to 24 hours.
5. Select **Save**.

To turn on or off, change, or delete existing Missed Meal Bolus reminders:

1. Go to the Missed Meal Bolus screen.
Menu > Reminders > Missed Meal Bolus
2. Select one of the reminders that you have already created.
3. Change any of the following:
 - Select **Reminder** to turn this reminder on or off.
 - Select **Edit** to change the time of this reminder.

- Select **Delete** to delete this reminder.

Low Reservoir reminder

The Low Reservoir reminder alerts you when the insulin level in your reservoir is low. This feature allows you to program your pump to generate a reminder before your reservoir is empty. You can select one of the following types of Low Reservoir reminders:

- **Units** – alerts you when your reservoir has a specified number of units remaining, and then alerts you again when half of remaining units are used.
- **Time** – alerts you when there is a specified amount of time remaining before your reservoir is empty and then again one hour before insulin runs out, depending on your programmed basal insulin delivery.



Note: The amount of time or units remaining in your reservoir can be found on the Quick Status screen. For more information on accessing the Status Screens, see *Viewing the Status screens, on page 32*.

If you use Time for your Low Reservoir reminder, be aware that the reminder time is based only on your basal insulin delivery rate. If you give a bolus, the time remaining will decrease more quickly.

For example, if your reservoir has 10 hours remaining when you go to bed at night, and you sleep for eight hours without giving any bolus insulin, you will still have two hours of basal insulin remaining when you wake up. In contrast, suppose your reservoir has 10 hours remaining when you leave the house for work in the morning. If you give boluses to cover your mid-morning snack and your lunch, the number of hours remaining decreases accordingly, and your insulin will run out before you end your eight-hour work day.



WARNING: When the pump detects a low reservoir condition during a bolus or fill cannula delivery, the Low reservoir alert displays. When delivery has finished, check the amount left in the reservoir to make sure your pump does not run out of insulin, as this could lead to an under delivery of insulin.

Low Reservoir reminder setup:

1. Go to the Low Reservoir screen.
Menu > Reminders > Low Reservoir
2. Select **Type** to set the reminder using either **Units** or **Time**.
3. Depending on the type you selected, do one of the following:
 - Select **Units** to enter the number of units. You can set a value from 5 units to 50 units.
 - Select **Time** to enter the number of hours you want to use for your reminder. You can enter from 2 to 24 hours.
4. Select **Save**.

Set Change reminder

The Set Change reminder helps you remember to change your infusion set. After you turn on this reminder, it automatically tracks the time between infusion set changes and reminds you to change your infusion set.

To turn on or off, or change the Set Change reminder:

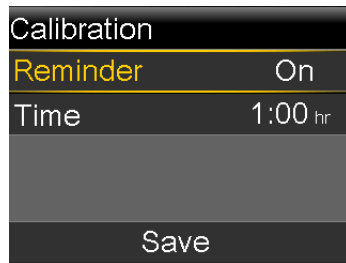
1. Go to the Set Change screen.
Menu > Reminders > Set Change
2. Select **Reminder** to turn the reminder on or off. If you turn on the reminder, select **Time** and choose two or three days for the reminder.
3. Select **Save**.

Calibration reminders

The Calibration reminder is available if you are using the Sensor feature. This feature helps you remember to calibrate your sensor. For example, if you set your reminder to four hours, you receive a Calibrate By alert four hours before the next BG meter reading is due.

To turn on or off, or change the Calibration reminder:

1. Go to the Calibration screen.
Menu > Reminders > Calibration



2. Select **Reminder** to turn the reminder on or off.
3. If you turn on the reminder, select **Time** and enter a time between 5 minutes and 6 hours.
4. Select **Save**.

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general settings

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9 General settings

This chapter provides information about common tasks for various settings.

Airplane Mode

Airplane Mode temporarily stops wireless communication with your pump. Use this mode during airline travel when you are instructed to turn off wireless devices.

Check airline policies for specific instructions about operating medical devices during a flight. Check local airport policies for specific instructions about medical devices and security procedures.

The following table provides special instructions when using Airplane Mode and additional devices with your pump:

When using this device:	Do this:
Compatible Bayer meter	When Airplane Mode is turned on, the Remote Bolus feature is not available, and you must enter BG meter readings manually. When Airplane Mode is turned off, use your compatible Bayer meter normally.
Non-linked BG meter	Use your non-linked BG meter normally whether Airplane Mode is on or off.

**When using
this device:****Do this:**

Sensor and
transmitter

When Airplane Mode is turned on, your pump does not receive sensor readings from your transmitter. Your transmitter continues to collect your sensor readings, and can store up to 10 hours of sensor data.


When Airplane Mode is turned off, it can take up to 15 minutes before the pump and the transmitter start to wirelessly communicate again. The transmitter begins to send the last 10 hours of your sensor information to the pump.

When you turn off Airplane Mode:

- If Airplane Mode was turned on for six hours or less, wait 15 minutes for the sensor and transmitter to wirelessly send your pump the missing sensor glucose readings.
- If Airplane Mode was turned on for more than six hours, disconnect and reconnect the transmitter and sensor, and then select **Reconnect Sensor** when it appears on the pump screen.

To turn on or turn off Airplane Mode:

1. Go to the Airplane Mode screen.
Menu > Utilities > Airplane Mode
2. Select **Airplane Mode** to turn the feature on or off.
3. Select **Save**.

When Airplane Mode is turned on, the status bar shows the Airplane Mode icon  in place of the Connection icon.

Audio Options

The Audio Options screen lets you change the volume of most alerts and notifications, and set the audio and vibrate settings. You can choose one of the three audio options:

-  audio
-  vibrate

-  audio and vibrate

The audio option that you are currently using displays on the status bar. For more information, see *Status bar, on page 28*.

To adjust the audio and vibrate settings:

1. Go to the Audio Options screen.
Menu > Audio Options
2. Select the Audio or Vibrate option you want to use.
3. If Audio or Audio & Vibrate option is selected, the volume can be changed. Select **Volume** and use left or right button to the desired level.
4. Select **Save**.

Auto Suspend

Auto Suspend is a safety feature that stops all insulin delivery and sounds an alarm if you do not press any buttons for a specified period of time. For example, your healthcare professional may have you set the time based on the number of hours that you typically sleep at night. Discuss with your healthcare professional how to best use this feature.

To set up Auto Suspend:

1. Go to the Auto Suspend screen.
Menu > Insulin Settings > Auto Suspend
2. Select **Alarm**.
3. Select **Time** and enter the number of hours that you want to set.
4. Select **Save**.

Block Mode

The Block Mode feature allows caregivers, such as parents of a young child, to restrict access to critical pump settings.



Caution: You can still manually suspend the pump while in block mode. This could result in high blood glucose and ketoacidosis.


When Block Mode is on, you cannot start a new bolus delivery, start a new basal pattern, or start a new temp basal delivery. However, any previous bolus and basal deliveries continue normally, and the pump user can stop a bolus delivery at any time.

When your pump is in Block Mode, you can suspend insulin delivery, receive SG values, receive BG values from a compatible Bayer meter, review history, test the pump, and clear alarms and alerts. However, you cannot change any settings.



WARNING: Block Mode does not prevent Remote Bolus deliveries from your compatible Bayer meter. When your pump is in Block Mode, you can still deliver a bolus from your compatible Bayer meter using the Remote Bolus feature.

To turn Block Mode on or off:

1. Go to the Block Mode screen.
Menu > Utilities > Block
2. Select **Block Mode** to turn the feature on or off.
3. Select **Save**. While Block Mode is turned on, a lock icon  displays on the status bar.

If you are turning on Block Mode, a message appears asking if you would like to change your Remote Bolus setting as well. This message appears only if the Remote Bolus setting was on.

4. Select **Yes** to change Remote Bolus setting.
5. Select **Remote Bolus** to turn the feature on or off.
6. Select **Save**.

Carb Unit

The Carb Unit setting determines whether to enter and display carbohydrates in grams (g) or exchanges (exch). You enter carbohydrate information when using the Bolus Wizard and recording food in Event Markers.

To change the Carb Unit setting:

1. Go to the Carb Unit screen.

Menu > Utilities > Carb Unit

2. Select either **Grams** or **Exchanges**.
3. Select **Save**.

Display Options

The Display Options allow you to increase or decrease the brightness of your screen. From the Display Options screen, you can also adjust the amount of time the backlight stays on after you press a button.

To adjust the display options:

1. Go to the Display Options screen.

Menu > Utilities > Display Options

2. Select **Brightness** to adjust the brightness of your screen. You can set a level from 1 to 5, or select **Auto** to have the screen automatically adjust to your current environment.



Note: The brightness setting you select can affect the life of your battery. For a longer lasting battery, consider using a lower level setting.

3. Select **Backlight** to adjust the timeout for the backlight on your pump screen. You can select 15 seconds, 30 seconds, 1 minute, or 3 minutes.



Note: The backlight can affect the life of your battery. For a longer lasting battery, consider setting the screen timeout to 15 seconds.

4. Select **Save**.

Language

You can change the language that your pump uses to display information.

To change the Language setting:

1. Go to the Language screen.

Menu > Utilities > Language

A checkmark indicates which language is active.

2. Select your desired language.
3. Select **Yes** when the confirmation message appears.

Managing your pump settings

Manage Settings lets you save, restore, or clear your settings.

The following table describes the Manage Settings options:

Save Settings	Saves a record of your current settings that you can use if a future event requires you to re-enter your settings.
Restore Settings	Allows you to restore your settings, using the backup settings that you saved using the Save Settings feature.
Clear All Settings	Erases your settings and returns them to the factory defaults. To use your pump again after clearing all settings, you must use Restore Settings. This enables you to restore a previous version of your settings or enter your settings again.
Clear Active Insulin	This option appears only if you have never cleared your active insulin. Use this feature when you are ready to use your pump with insulin for the first time. You can only clear your active insulin once.
Settings History	Displays a history of recent activities that relate to managing your settings, such as saving, clearing, and restoring your settings.

Saving your settings

Saving a record of your settings allows you to restore your settings at a later date, if necessary.

To save your current settings:

1. Go to the Manage Settings screen.
Menu > Utilities > Manage Settings
2. Simultaneously press and hold > and ⬅ until the Manage Settings menu appears.
3. Select **Save Settings**.

If these are the first settings you have saved, a message appears telling you that your settings are saved.

If you have previously saved settings, a message appears asking if you would like to replace your previous settings with your current settings. Select **Yes** to accept. Select **No** to cancel.

Restoring your settings

This option allows you to replace your current pump settings with the last settings that you have saved. The Restore Settings menu option is available only if you have previously saved your settings.

To restore your previous settings:

1. Go to the Manage Settings screen.
Menu > Utilities > Manage Settings
2. Simultaneously press and hold > and ← until the Manage Settings menu appears.
3. Select **Restore Settings**.
4. To replace your current settings with your previous settings, select **Yes**. To cancel, select **No**.

Clearing your settings

The Clear All Settings feature erases your current settings and returns them to the factory defaults. After you clear your settings, your pump displays the Startup Wizard, where you can re-enter your pump settings. You must re-enter your settings to continue using your pump.

The Clear All Settings feature does not delete wireless connections to other devices, such as your transmitter or compatible Bayer meter.



Caution: Do not clear the settings on the pump unless directed by your healthcare professional. If you clear your settings, you must re-enter all your personal settings as directed by your healthcare professional.