USING THE MINIMED® 670G SYSTEM

Instructions for the Experienced MiniMed® 630G System User

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Medtronic

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Checklist for Upgrading

Here are some important things you will need to accomplish on your path to Auto Mode* in the MiniMed 670G system.

- ✓ Understand the differences between the MiniMed 630G and MiniMed 670G systems 1
- ✓ Retrieve your MiniMed 630G insulin pump settings 7
- ✓ Programming your MiniMed 670G pump 9
- ✓ MiniMed 670G pump infusion set & sensor insertion 15
- ✓ Before beginning Auto Mode 17

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

*WARNING: may not be safe for patients under 7 or requiring less than 8 units of insulin per day.

Let's Get Started!

Welcome to the next advancement in diabetes care. Your new MiniMed 670G system includes SmartGuard® technology, which automatically adjusts insulin delivery based on your sensor glucose values. It features Auto Mode, which will be discussed later.

You'll notice some small differences to the front of your MiniMed 670G pump compared to your MiniMed 630G pump:

MINIMED 670G PUMP BUTTONS

Graph

- **Opens the CGM graph from the home screen**

This symbol shows that the graph button also puts pump into sleep mode. Press and hold ~2 seconds

Press Select button to open Main Menu

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Your MiniMed 670G system can be used in two different ways— Manual Mode and Auto Mode.

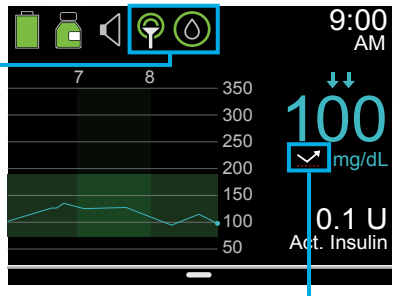
Manual Mode

Using your pump in a traditional way, like your MiniMed 630G pump.

- Basal rates are pre-programmed.
- Bolusing can be done with the Bolus Wizard® or with Manual Boluses.
- CGM is not required for insulin delivery, but is necessary for insulin suspend features.

HOME SCREEN IN MANUAL MODE

CGM GRAPH IN MANUAL MODE



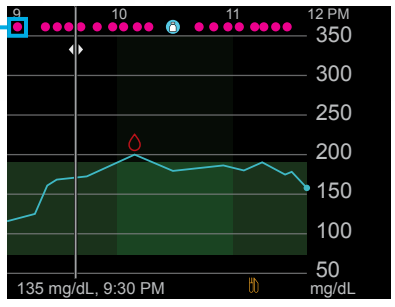
Auto Mode

Delivers basal insulin automatically based on your sensor glucose readings.

- Basal is automatically adjusted ever 5 minutes.
- Bolusing for carbs before meals is necessary, but Auto Mode auto adjusts the basal after the bolus is given.
- CGM is required.

HOME SCREEN IN AUTO MODE

CGM GRAPH IN AUTO MODE

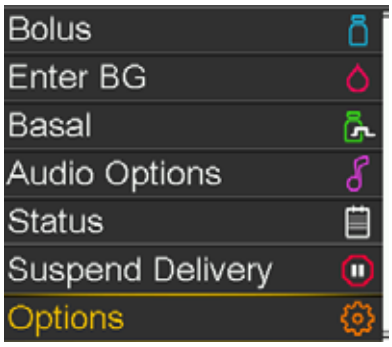


INITIAL VERSION FOR CUSTOMER TRAINING PHASE

MiniMed 670G Pump Menus

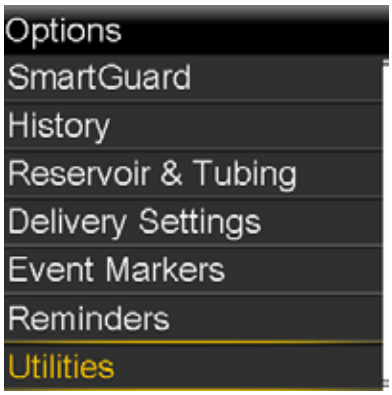
Here are the *changes* you will find in the menus:

MENU



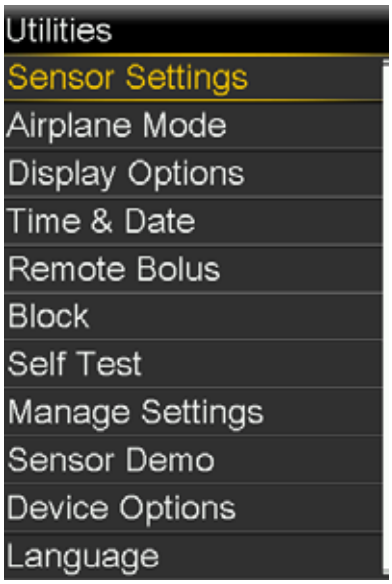
- **Basal** and **Bolus** options are now on the Menu
- You will now select **Status** to see your status screens

OPTIONS



- High Setup and Low Setup are now entered in **SmartGuard**
  NEW: Auto Mode Setup
- Basal and Bolus Setup now in **Delivery Settings** (formerly Insulin Settings)
- New location for **Reservoir & Tubing**

UTILITIES



- The sensor feature is turned On in **Sensor Settings**

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

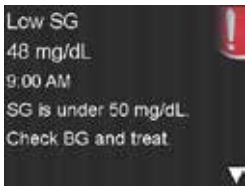
New CGM features in Manual Mode

1 Expanded Low Limit range

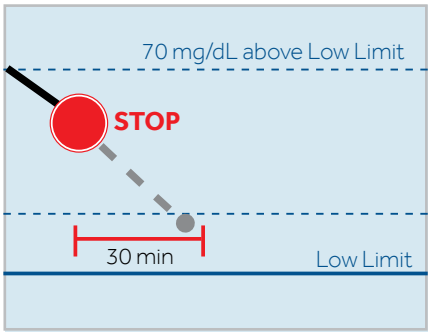
- Your Low limit can be set as low as 50mg/dL and up to 90mg/dL.
- This is available in both Manual Mode and Auto Mode.

2 Fixed Low Alert

- Your system has an alert at 50mg/dL. This alert cannot be changed, but the alert can be cleared.
- This occurs in both Manual Mode & Auto Mode.



3 **Suspend before low** event

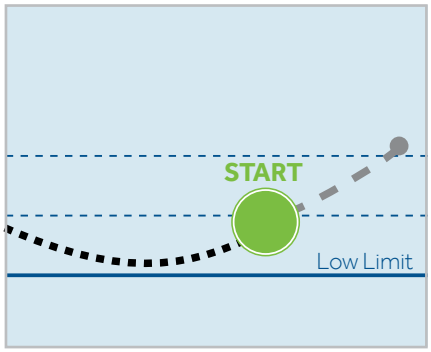


To help keep sensor glucose (SG) from reaching your low limit, insulin delivery will be stopped if SG is:

- At or within 70 mg/dL above the low limit.
- Predicted to be approaching the low limit in 30 minutes.

If you want your pump to suspend without alarming, turn **Alert before low** off.

4 **Automatic basal resume** based on sensor glucose (SG) value



During **Suspend before low** or **Suspend on low**, basal insulin will automatically resume if:

- Glucose is above the low limit and trending upward.
- Insulin has been suspended for at least 30 minutes.

The basal can be manually resumed at any time, and will resume after a maximum of 2 hours.

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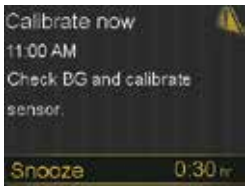
Calibrations

The CGM calibration schedule is similar to your MiniMed 630G system. Calibrate 3-4 times a day or when you receive a **Calibrate now**.

Calibrating 3-4 times a day is recommended for optimal sensor accuracy and performance.

After inserting a new sensor, calibrate:

- After **Warm up**.
  - **Warm up** can vary from 40 minutes up to 2 hours.
  - Your pump will alert you with a **Calibrate now** when it's ready.
- Again within 6 hours (first day only).
- Again every 12 hours (at a minimum).
- When the system detects that a calibration is needed for optimal performance.



CALIBRATION TIPS

- ✓ Spread your calibrations throughout the day, such as before meals, and before bedtime
- ✓ Calibrate before bedtime to minimize getting **Calibrate now** alerts while you sleep
- ✓ Skip a calibration if you see ↑↑,↓↓ OR ↑↑↑,↓↓↓ on your pump screen
- ✓ Always calibrate immediately after testing your BG.

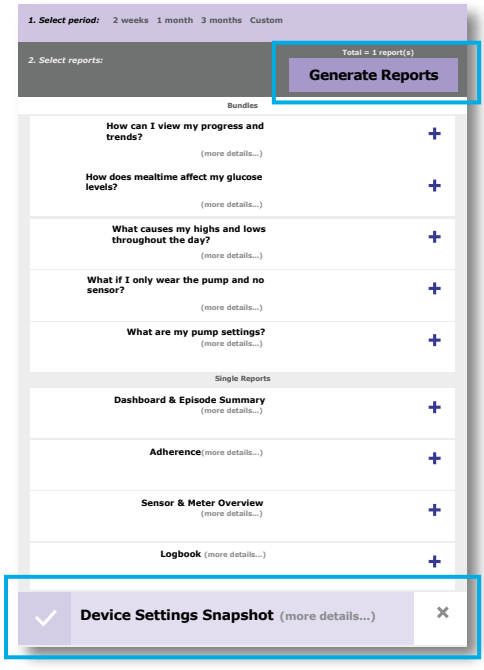
INITIAL VERSION FOR CUSTOMER TRAINING PHASE

RETRIEVE YOUR MINIMED 630G INSULIN PUMP SETTINGS FROM CARELINK® SOFTWARE

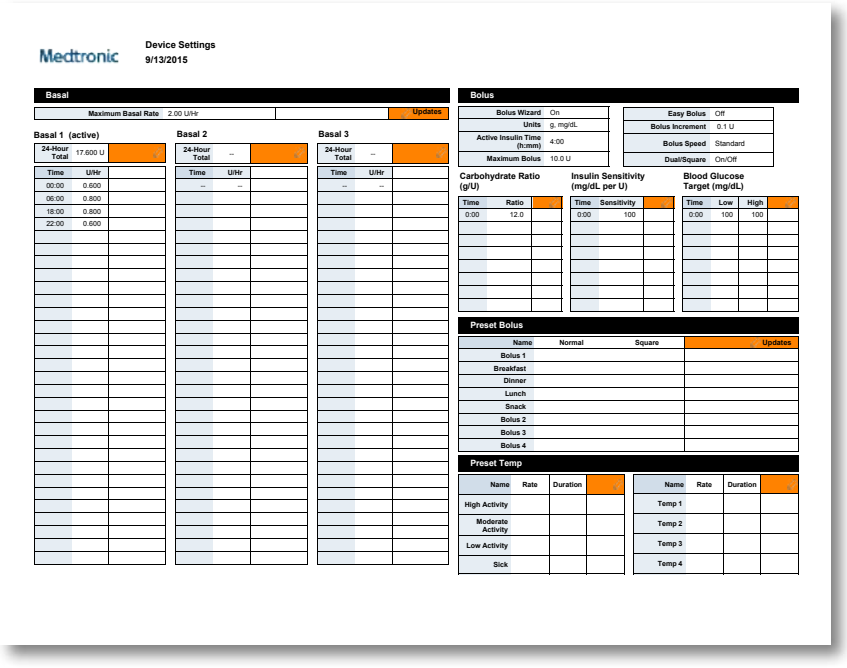
****If you don't have access to CareLink® software, move to the next page to record your pump's settings.****

1. Upload your MiniMed 630G pump into CareLink at **www.medtronicdiabetes.com/CareLink**

2. Go to **Reports** and search for **Device Settings Snapshot**. Print or save your settings.



DEVICE SETTINGS SNAPSHOT



3. If you have any difficulty using CareLink Personal, call the Medtronic 24 Hour HelpLine at **1-818-576-5400**

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

INSULIN SETTINGS

*BOLUS WIZARD SETUP

Menu > Insulin Settings > Bolus Wizard Setup

Bolus Wizard: ☐ On ☐ Off

Carb Ratio:

12:00 A _____ - _____ g/U
_____ _____ - _____ g/U
_____ _____ - _____ g/U

Insulin Sensitivity Factor:

12:00 A _____ - _____ mg/dL per U
_____ _____ - _____ mg/dL per U
_____ _____ - _____ mg/dL per U

BG Target:

12:00 A _____ - _____ mg/dL
_____ _____ - _____ mg/dL
_____ _____ - _____ mg/dL

Active Insulin Time: _____ hr

*BASAL PATTERN SETUP

Menu > Insulin Settings > Basal Pattern Setup

Basal 1: **Basal Pattern Name:** _____

12:00 A	_____	U/hr	12:00 A	_____	U/hr
_____	_____	U/hr	_____	_____	U/hr
_____	_____	U/hr	_____	_____	U/hr
_____	_____	U/hr	_____	_____	U/hr

PRESET TEMP SETUP

Menu > Insulin Settings > Preset Temp Setup

Preset Temp Name: _____

Type _____ Percent _____ % Duration _____ hr

*The most important settings for use with the MiniMed 670G system.

INSULIN SETTINGS (continued)

DUAL/SQUARE WAVE:

Dual: ☐ On ☐ Off **Square:** ☐ On ☐ Off

PRESET BOLUS SETUP

Menu > Insulin Settings > Preset Bolus Setup

Preset Bolus Name: _____

Bolus: _____ U Type: _____

% _____ Now _____ Square Duration _____ hr

BOLUS INCREMENT: ☐ 0.025U ☐ 0.05U ☐ 0.1U

*MAX BASAL/BOLUS:

Max Basal: _____ U/hr Max Bolus: _____ U

EASY BOLUS: ☐ On ☐ Off Step Size _____ U

AUTO SUSPEND: ☐ On _____ hr ☐ Off

BOLUS SPEED: ☐ Standard ☐ Quick

REMINDERS

Menu > Reminders

PERSONAL:

Name: _____ Time: _____ AM / PM

BOLUS BG CHECK: ☐ On ☐ Off

MISSED MEAL BOLUS:

Meal 1: _____ AM / PM - _____ AM / PM

LOW RESERVOIR:

☐ Units: _____ U ☐ Time: _____ hr

SET CHANGE:

☐ On _____ days ☐ Off

UTILITIES

Menu > Utilities

DISPLAY OPTIONS:

Brightness ____ ☐ Auto Backlight _____ sec / min

REMOTE BOLUS: ☐ On ☐ Off

****CARB UNIT:** ☐ Grams ☐ Exchanges

**Minimed 670G system uses Grams only

SENSOR SETTINGS: LOW SETTINGS Menu > Sensor Settings > Low Settings

Time Period	Low Limit	Alert before Low	Suspend on Low	Alert on Low
12:00 A - _____	_____ mg/dL	☐ On	☐ On	☐ On
_____ - _____	_____ mg/dL	☐ On	☐ On	☐ On
_____ - _____	_____ mg/dL	☐ On	☐ On	☐ On
Low Snooze: _____ minutes				

SENSOR SETTINGS: HIGH SETTINGS Menu > Sensor Settings > High Settings

Time Period	High Limit	Alert before High	Alert on High	Rise Alert
12:00 A - _____	_____ mg/dL	☐ On _____ min	☐ On	☐ On _____ mg/dL/min or ↑ | ↑↑ | ↑↑↑
_____ - _____	_____ mg/dL	☐ On _____ min	☐ On	☐ On _____ mg/dL/min or ↑ | ↑↑ | ↑↑↑
_____ - _____	_____ mg/dL	☐ On _____ min	☐ On	☐ On _____ mg/dL/min or ↑ | ↑↑ | ↑↑↑
High Snooze: _____ minutes				

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Getting Started with Your MiniMed 670G System

1. Charge your new transmitter.
2. Insert a Battery.
3. Complete the pump Startup Wizard.

Begin programming your MiniMed 670G pump.

Max Basal

If you need to program a basal rate that is more than 2 U/hr, or for safety, your healthcare professional wants to limit the amount of basal that can be programmed, your Max Basal setting may need to be changed.

1. From the Home screen, press ○.
2. Select **Basal** or **Options**.
3. Select **Delivery Settings**.
4. Select **Max Basal/Bolus**.
5. Select **Max Basal**.

6. Read the message. Press > and select **Continue**.
7. Press ○.

8. Press ^ or v to enter number of U/hr and press ○.
9. Select **Save**.

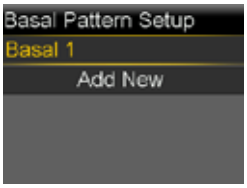
Add a Basal Pattern

1. From the Home screen, press ○.
2. Select **Basal**.

3. Select **Delivery Settings**.

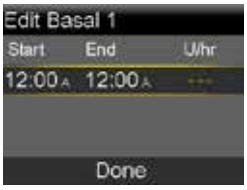
4. Select **Basal Pattern Setup**.

5. Select **Basal 1**.
6. Select **Options**.
7. Select **Edit**.



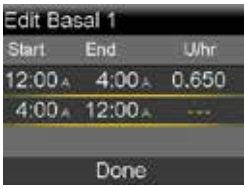
8. Press ○ to enter the End time. If you have only one basal rate, press ○.

   If you have more than one basal rate, press ^ or v to enter the time the basal rate ends and press ○.



9. Press ^ or v to enter U/hr of your basal rate and press ○.

   Continue entering your End times and U/hr until all basal rates are entered.



10. Select **Done**.

11. Review basal rates. Select **Save**.

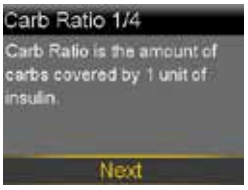
INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Bolus Wizard Setup

1. From the Home screen, press ○.
2. Select **Options**.
3. Select **Delivery Settings**.
4. Select **Bolus Estimate Setup**.

5. Select **Bolus Wizard** to turn on.
6. Press ∨ to continue reading text.
7. Select **Next**.

8. Review the description of Carb Ratio and select **Next**.



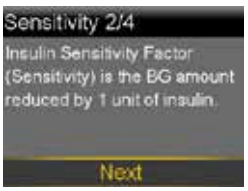
9. Press ○ on the time segment.
10. If you have only one Carb Ratio, press ○.

    If you have more than one Carb Ratio, press ∧ or ∨ to enter the time that your Carb Ratio ends and the second begins and press ○.

11. Press ∧ or ∨ to enter the **g/U** of your Carb Ratio and press ○.

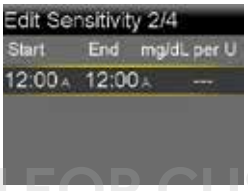
    If you have more than one Carb Ratio, continue by entering your time segments and Carb Ratios until all are entered.

12. Select **Next**.
13. Review the description of Sensitivity Factor and select **Next**.



14. Press ○ on the time segment.
15. If you have only one Sensitivity Factor, press ○.

    If you have more than one Sensitivity Factor, press ∧ or ∨ to enter the time that your Sensitivity Factor ends and the second begins and press ○.



16. Press ∧ or ∨ to enter the **mg/dL per U** of your Sensitivity Factor and press ○.

    If you have more than one Sensitivity Factor, continue by entering your time segments and Sensitivity Factors until all are entered.

17. Select **Next**.
18. Review the description of BG Target and select **Next**.

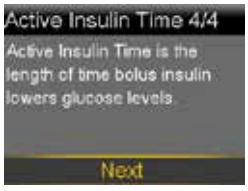
19. Press ○ on the time segment.
20. If you have only one BG Target Range, press ○.

    If you have more than one BG Target Range, press ∧ or ∨ to enter the time that your BG Target Range ends and the second begins and press ○. Press ∧ or ∨ to enter the **Lo** target and press ○.

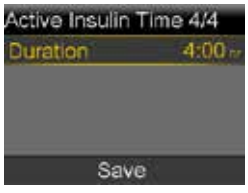
21. Press ∧ or ∨ to enter the **Hi** target and press ○.

    If you have more than one BG Target Range, continue by entering your time segments and Lo and Hi targets until all are entered.

22. Select **Next**.
23. Review the description of Active Insulin Time and select **Next**.

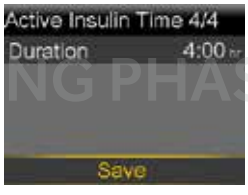


24. Select **Duration**.
25. Press ∧ or ∨ to enter the **Duration** of your Active Insulin Time and press ○.



26. Select **Save**.

    The Bolus Wizard setup is now complete.

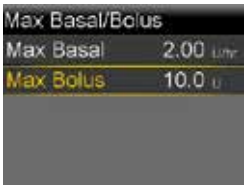


INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Max Bolus

If you need to deliver boluses that are more than 10 units, or for safety, your healthcare professional wants to limit the amount of bolus that can be given at one time, your Max Bolus setting may need to be changed.

1. From the Home screen, press ○.
2. Select **Options**.
3. Select **Delivery Settings**.
4. Select **Max Basal/Bolus**.
5. Select **Max Bolus**.



6. Read the message. Press > and select **Continue**.
7. Press ○.

8. Press ^ or v to enter number of units and press ○.
9. Select **Save**.

NOTE: Program any additional insulin setting features you want to transfer over to your MiniMed 670G pump.

Turn the Sensor Feature On

1. Press ○.
2. Select **Options**.
3. Select **Utilities**.
4. Select **Sensor Settings**.

5. Select **Sensor** to turn the feature **On**.

Now go back to the Home screen, and the next pages will help you setup your CGM settings.

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

High Setup

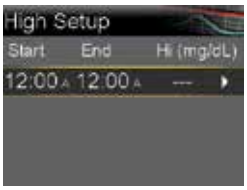
1. Press ○.
2. Select **Options**.

3. Select **SmartGuard**.

4. Select **High Setup**.

5. Press ○. If you are setting only one time segment, press ○.

If you are setting multiple segments with different high limits, press ^ to set the first End time and press ○.



6. Press ^ or v to set **Hi limit** and press ○.

7. Press ○ to continue onto the next screen.
8. Select each feature you wish to turn on.

9. Once settings are selected, select **Next**.

10. Select **Done**.

If setting multiple time segments, select the **End time**, **Hi**, and features you wish to turn on. Then select **Done**.

11. Verify settings are correct, and select **Save**.

Low Setup

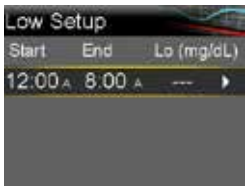
1. Press ○.
2. Select **Options**.

3. Select **SmartGuard**.

4. Select **Low Setup**.

5. Press ○. If you are setting only one time segment, press ○.

If you are setting multiple segments with different low limits, press ^ to set the first End time and press ○.



6. Press ^ or v to set Lo limit and press ○.

7. Press ○ to continue onto the next screen.
8. Select each feature you wish to turn on.

9. Once settings are selected, select **Next**.
10. Select **Done**.

If setting multiple time segments, select the **End time**, **Lo**, and features you wish to turn on. Then select **Done**.

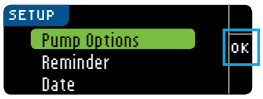
11. Verify settings are correct, and select **Save**.

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

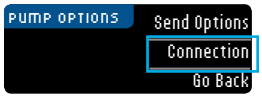
Delete Old Pump and Connect New Pump to Your CONTOUR® NEXT LINK 2.4 Meter*

1. Hold the Menu button until the meter turns on.
2. Scroll to **Setup** and click on **OK**.

3. Click **OK**.



4. Click **Connection**.

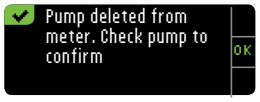


5. Click **Delete**.

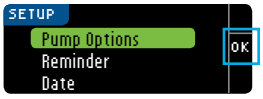
6. Click **Yes** to delete pump.

7. Wait...

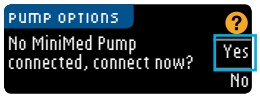
8. Click **OK**.



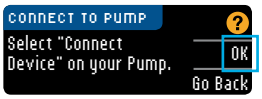
9. Click **OK**.



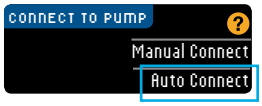
10. Click **Yes**.



11. Click **OK**.



12. Press **Auto Connect**.

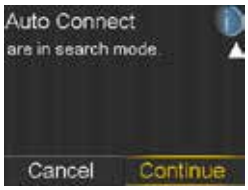


Put the meter down and pick up your pump.

13. Press ○.
14. Go to **Options**.
15. Go to **Utilities**.
16. Go to **Device Options**.
17. Select **Connect Device**.
18. Select **Auto Connect** on your pump.

19. Press ∨.
20. Press >.

21. Select **Continue**.

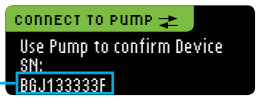


Place the meter and pump next to each other.

22. Select **Search** on your pump and meter.
The search may take up to 2 minutes.

23. Check to see that the Device SN (serial number) on the pump screen matches the Device SN on the meter.

24. If they match, select **Confirm** on the pump.



25. Check to see that the SN on the back of the pump matches the SN now on the meter screen.

26. Follow the remaining steps on the meter to choose to **Always** send result to pump, to select the **Date Format**, set **AutoLog** to Off, and accept the **Target Range**.

Setup is now complete.

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

*Use your meter that you received with your MiniMed 630G system.

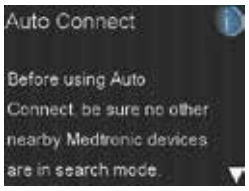
To Wirelessly Connect Your Pump and Transmitter

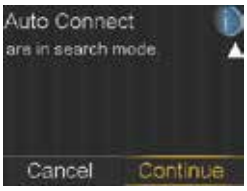
1. Make sure the transmitter is on your charger.
2. Press ○.
3. Select **Options**.
4. Select **Utilities**.
5. Select **Device Options**.
6. Select **Connect Device**.

Make sure to use your new Guardian® Link 3 transmitter because it is the ONLY transmitter that will work with your MiniMed 670G pump.

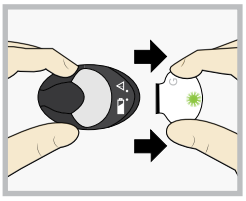
7. Select **Auto Connect**.

8. Press ∨.
9. Select **Continue**.





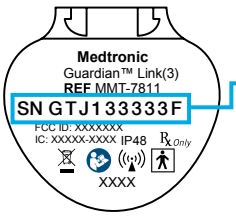
10. Remove the transmitter from the charger.



11. When the green light flashes on the transmitter, immediately hit Search on the pump.
    - The search can take several minutes...
    - If the green light on the transmitter does not flash, put the transmitter back on the charger and try to Search again.

12. When the device is found, confirm that the serial number (SN) shown on the pump is the serial number on the back of your transmitter.

    If you receive the **No devices found** message, place the transmitter back onto the charger. Then remove the transmitter from the charger and immediately select **Retry** on the pump.



13. If SN matches, select **Confirm**.

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Connection is now complete. The transmitter serial number will be displayed on the pump screen.

Changing the Reservoir and Infusion Set

The MiniMed 670G pump uses the same infusion sets and reservoirs as your MiniMed 630G pumps, and changing your reservoir and infusion set is still the same as your MiniMed 630G pump.

1. From the Home screen, press ○.
2. Select **Options**.
3. Select **Reservoir & Tubing**.

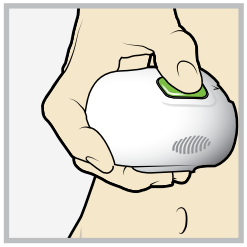
4. Select **New Reservoir**.
5. Continue with the remaining steps for filling your reservoir and inserting a new infusion set.

Inserting Your Sensor

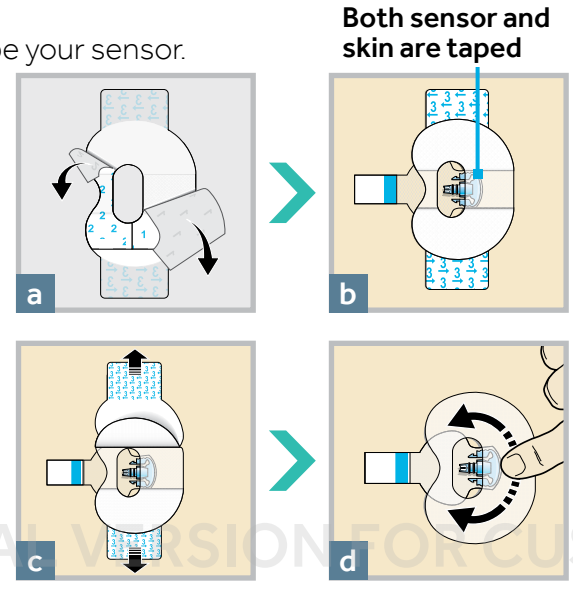
The sensor insertion process for MiniMed 670G pump is very similar to the MiniMed 630G pump, but with a few new changes. See your CGM Getting Started Guide page 20 for the full steps.

- New sensor and transmitter with enhanced accuracy and performance!
- New tape with a different shape!

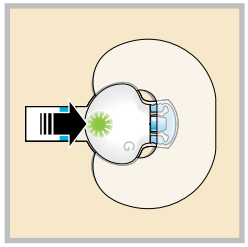
1. Insert your sensor.



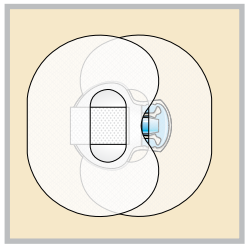
2. Tape your sensor.



3. Connect transmitter.



4. Apply second piece of tape.

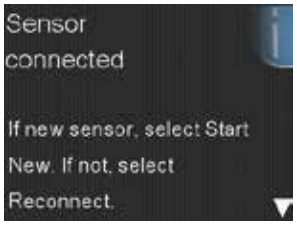


INITIAL VERSION FOR CUSTOMER TRAINING PHASE

Starting the Sensor

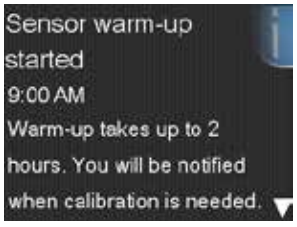
Start New Sensor appears automatically when sensor is ready.

1. Once **Sensor connected** message appears, press ⌄. *This typically takes less than a minute, but may take up to 10 minutes.*



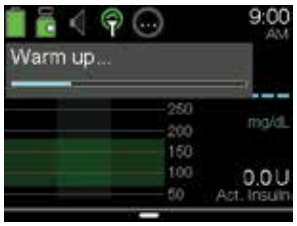
2. Select **Start New Sensor**.

3. The **Sensor warm-up started** message will appear. Press ⌄ and then ○ to clear.



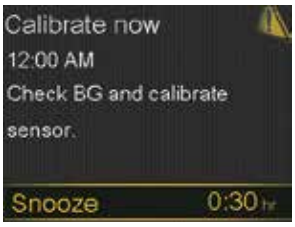
4. **Warm up**... will appear on the Home screen until sensor is ready for the first calibration.

   Warm up can last between 40 minutes and up to 2 hours.



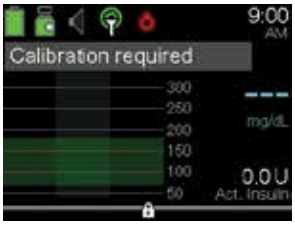
Calibrating the Sensor

1. Within two hours after starting a new sensor, or any other time a calibration is necessary, you will receive a **Calibrate now**.



   If you plan to snooze or test BG right away, select **Snooze**.

2. Once you select **Snooze**, **Calibration required** will appear on the Home screen until you enter a BG to calibrate.



   You will not receive sensor glucose readings or sensor alerts and alarms until a calibration BG is entered.

3. Select **Yes** to confirm the BG meter reading.

   If you do not believe the meter result is accurate, do not confirm now. Select **No**, wash your hands, and re-test your BG.

4. Select **Calibrate Sensor** to calibrate using the BG value.

   If you plan to give a bolus using Bolus Wizard®, select **Bolus**. Select **Done** if you wish to do neither.

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

When to start on Auto Mode

You and your healthcare professional will decide when the time is right to start Auto Mode.

Auto Mode will represent a shift in the way you manage your diabetes. One of the biggest benefits will be having fewer clinical decisions to make, as the system will adjust insulin delivery every 5 minutes to help keep more of your glucoses in range. However, you will still have important responsibilities.

Auto Mode Ready? You should:

- Enter carbs into the pump before you eat.
- Check BGs and calibrate 3-4 times a day.
- Respond promptly to alerts.
- Prepare for more tasks (BG checks and calibrations, alerts, etc.), with less clinical burden.
- Upload to CareLink so that you and your health care professional can evaluate your settings.

CareLink Software — upload your MiniMed 670G pump prior to Auto Mode start.

- This will be used to set your initial settings and allows your health care provider to identify any issues that need to be corrected.
- **www.medtronicdiabetes.com/CareLink**

Need help uploading your pump into CareLink Personal? Call the Medtronic 24 hour HelpLine at 1-818-576-5400

Time to schedule your Auto Mode training!

WARNING Do not turn on Auto Mode before your training. If you do, Auto Mode could activate in the night before you are ready. Auto Mode requires a 48+ hour warm-up period before activating.

INITIAL VERSION FOR CUSTOMER TRAINING PHASE

MAIN MENU

MANUAL MODE

- BOLUS
- ENTER BG
- BASAL
- AUDIO OPTIONS
- STATUS
- SUSPEND DELIVERY
- OPTIONS

BOLUS

Bolus Wizard
Manual Bolus
Preset Bolus
Delivery Settings

BASAL

Temp Basal
Preset Temp
Basal Patterns
Delivery Settings

OPTIONS

Smart Guard
- Auto Mode
  - Auto Mode (On/Off)
  - Auto Mode BG Alert (On/Off)
- High Setup
  - Alert before High (On/Off)
  - Time before High
  - Alert on High (On/Off)
  - Rise Alert (On/Off)
  - Rise Limit
- Low Setup
  - Alert before Low (On/Off)
  - Alert on Low (On/Off)
  - Suspend before Low (On/Off)
  - Suspend on Low (On/Off)
  - Resume basal alert (On/Off)
- Snooze
  - High Snooze
  - Low Snooze

History
- Summary
- Daily History
- Alarm History
- Sensor Glucose Review
- ISIG History

Reservoir & Tubing
- New Reservoir
- Fill Cannula

Delivery Settings
- Bolus Estimate Setup
  - Carb Ratio
  - Bolus Wizard (On/Off)
  - Insulin Sensitivity Factor
  - BG Target
  - Active Insulin Time
- Basal Pattern Setup
- Preset Temp Setup
- Preset Bolus Setup
- Dual/Square Wave
- Bolus Increment
- Max Basal/Bolus
- Easy Bolus
- Auto Suspend
- Bolus Speed

Event Markers
- BG
- Injection
- Food
- Exercise
- Other

Reminders
- Personal
- Bolus BG Check
- Missed Food Bolus
- Low Reservoir
- Set Change
- Calibration

Utilities
- Sensor Settings
  - Sensor (On/Off)
  - Sensor Connections
  - Calibrate sensor
- Airplane Mode
- Display Options
  - Brightness
  - Backlight
- Time & Date
- Remote Bolus
- Block
- Self Test
- Manage Settings
  - Save Settings
  - Restore Settings
  - Clear All Settings
  - Clear Active Insulin
  - Settings History
- Sensor Demo
- Device Options
  - Manage Devices
  - Connect Device
- Language

IN VERSION FOR CUSTOMER TRAINING PHASE

MAIN MENU

AUTO MODE

- BOLUS
- ENTER BG
- TEMP TARGET
- AUDIO OPTIONS
- STATUS
- SUSPEND DELIVERY
- OPTIONS

BOLUS

BG
Carbs

ENTER BG

BG Entry

TEMP TARGET

Duration
Cancel Temp Target

AUDIO OPTIONS

Alert Silence Options
- High Alerts Only
- High & Low Alerts
- All Sensor Alerts
- Duration

Audio (On/Off)
Vibrate (On/Off)
Volume (-/+)

STATUS

Auto Mode Readiness
Notifications
Quick Status
Pump
Sensor
Settings Review

SUSPEND DELIVERY

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