nzms diabetes

a Dexcom company

TANDEM Diabetes Care

t:slim X2™

WITH Control-IQ TECHNOLOGY

Pump Start Training Booklet

You have been given this resource because your healthcare professional has chosen this product as a suitable treatment option for you.

ALWAYS READ THE LABEL AND FOLLOW THE DIRECTIONS FOR USE. Read the warnings available on nzmsdiabetes.co.nz/resources before purchasing.

Welcome to Pumping with Tandem

Hi there!

Thank you for choosing the t:slim X2 insulin pump to help manage your diabetes.

This booklet will provide you with some helpful resources to get you started. For more information, please refer to your t:slim X2 insulin pump User Guide.

If you have any concerns about your insulin dosage, blood glucose (BG) or ketone levels, please contact your healthcare professional or emergency department, as we are unable to advise on these issues or any clinical aspect of your diabetes management.

If you need technical assistance with your insulin pump, we have a dedicated **24/7 Customer Care Team available on 0508 634 103.**

Download on the App Store

GET IT ON Google Play

The Tandem demo t:simulator app can help your family/ support team get familiar with your new pump! Search for the t:simulator on the App Store or Google Play.

Table of Contents

Definitions

1. **Basal**
   Basal insulin takes the place of long-acting insulin and is sometimes called background insulin. When set correctly, your basal rates should maintain fairly even blood glucose levels between meals and overnight. The basal rate can be changed according to the time of day and is delivered over a 24-hour period.

   Even though the pump delivers basal insulin every 5 minutes, basal rates are recorded as the number of units/hour. This rate is called segment.
2. **Bolus**
   A bolus is the insulin given to cover meals or to bring down an elevated glucose level. There are several types of boluses that can be delivered by the system, including food bolus, correction bolus and automatic bolus.
3. **Correction Factor (CF)**
   Also known as insulin sensitivity factor (ISF). This number estimates how much 1 unit of insulin will lower your blood glucose. For example, if this number is 5, then 1 unit of insulin will lower your blood glucose by about 5 mmol/L. The correction factor is used when you want to correct a high blood glucose.
4. **Carbohydrate Ratio**
   This is usually referred to as your Carb Ratio. To calculate how much insulin you need when you eat, you will need to know your Carb Ratio. This tells you how many grams of carbohydrate one unit of insulin will cover. For example, if your Carb Ratio is 1:15, you need to bolus 1 unit for every 15g of carbohydrate you eat. The Carb Ratio is only used when you want to eat.
5. **Total Daily Dose**
   This is usually referred to as TDD or total daily insulin (TDI). This is all of the insulin you take in one day i.e. basal and bolus.
6. **Insulin Duration**
   Insulin duration is the amount of time that insulin is active and available in the body after a bolus has been delivered. This also relates to the calculation for insulin on board.
7. **Insulin on Board (IOB)**
   IOB is the insulin that is still active in the body (and has the ability to continue to lower the BG). When Control-IQ technology is active, basal modulations will be incorporated into insulin on board.

My t:slim X2™ Insulin Pump Settings

This document will assist with entering all of your settings provided by your healthcare professional into your new t:slim X2 insulin pump. This may be particularly useful if you are transferring across existing pump settings; and can function as a place to record them.

PERSONAL PROFILES

To begin, select:
Options > My Pump > Personal Profiles > +

Program No. 1 “Workday”

TIMED SETTINGS

Time	Basal rate	Correction factor	Carb ratio	Target BG
12:00/00:00				

BOLUS SETTINGS

IOB Duration	Carbs
Hours	◯ On ◯ Off

Options > My Pump > Personal Profiles > Pump Settings

Quick Bolus

Provides a shortcut to deliver a bolus conveniently

◯ Off ◯ On

Increment Type (units or grams)

Increment Amount _____ u or g

Max Bolus _____ u

Basal Limit _____ u/hr

DEVICE SETTINGS

Program No. 2

TIMED SETTINGS

Time	Basal rate	Correction factor	Carb ratio	Target BG
12:00/00:00				

BOLUS SETTINGS

IOB Duration	Carbs
Hours	○ On ○ Off

Select:

Options > ⬇ > Device Settings

DISPLAY SETTINGS

Edit Screen Timeout Settings

Choose between 15, 30, 60 or 120 secs.

TIME AND DATE

Edit Time/Edit Date

To ensure accuracy of settings and data.

SECURITY PIN

Security PIN ○ Off ○ On

Set up 4+ digital security PIN as desired.

BLUETOOTH SETTINGS

Mobile Connection

Recommended set to “Off”

○ Off ○ On

SOUND VOLUME

Edit Volume Settings

PUMP SETTINGS

Select:

Options > My Pump > Alerts & Reminders > Pump Reminders

Low insulin units

Auto-off ○ Off ○ On *Set to Auto-On by default

Select:

Options > My Pump > Alerts & Reminders > Pump Reminders

LOW BG ○ Off ○ On

Remind me below mmol/L

Remind me after mins/hrs

HIGH BG ○ Off ○ On

Remind me below mmol/L

Remind me after mins/hrs

AFTER BOLUS BG ○ Off ○ On

Remind me after mins/hrs

MISSED MEAL BOLUS > SET REMINDER

Edit Selected Days, Start Time and End Time.

In order to begin using your new t:slim X2 insulin pump, you must manually enter the settings discussed with your healthcare professional (or directly from your previous insulin pump if applicable) into your new t:slim X2 insulin pump using the information you have recorded on the previous pages.

Contact your healthcare professional team if you have any questions about the settings you are entering. Failure to use settings determined by your healthcare professional team will likely result in incorrect insulin delivery.

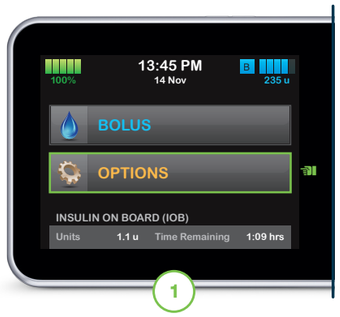
If you require technical assistance with your insulin pump, please call our Technical Support team on **0508 634 103.**

IMPORTANT: These instructions are simplified to supplement training by your healthcare professional. Before you begin, you should carefully read the t:slim X2 insulin pump User Guide and any inserts that come with your system.

Dexcom G7 Start Sensor Sessions

ON THE T:SLIM X2™ INSULIN PUMP

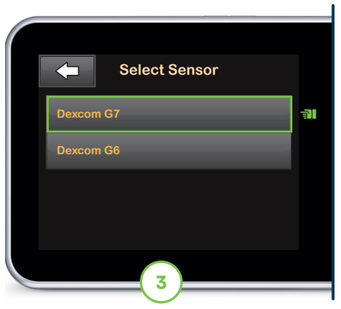
These instructions are specific to Dexcom G7. For information on starting a Dexcom G6 sensor session, please refer to the user guide.*



From the Home screen, tap **OPTIONS.**

Tap the down arrow and then tap **My CGM**.

⚑ Note: These instructions are provided as a reference tool for pump users and caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 pump, please refer to its user guide.



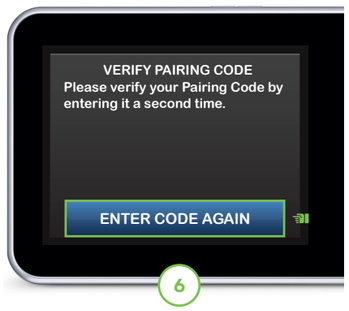
If this is the first time using a Dexcom G7 sensor, tap **Select Sensor** and then tap **Dexcom G7**. Otherwise, skip to Step 4.

Tap **START G7 SENSOR**.

⚑ Note: If the user utilizes the Dexcom G7 mobile app, the user must start a sensor session and enter the pairing code on both the Dexcom G7 mobile app and t:slim X2 insulin pump.

Enter the code found on the side of the sensor applicator and tap ✓ to continue.

⚑ Note: Make sure the pump and continuous glucose monitoring (CGM) sensor are within 6 metres of each other without obstruction.



Tap **ENTER CODE AGAIN** to verify the pairing code and then tap ✓ to continue.

⚑ Note: If valid, a CODE CONFIRMED screen will appear to confirm. If invalid, the pump will prompt you to enter the code again.

Tap ✓ to start the sensor session startup period.

✓ The SENSOR STARTED screen will appear to confirm.

The pump will return to the Home screen with a CGM trend graph and sensor startup countdown symbol.

⚑ Note: If continuing an active sensor session, the startup period will take five to 10 minutes. For a new session, it may take up to 30 minutes.

The symbol fills in over time to show how much time is left.

⚑ Note: During this startup period, the pump will not display sensor data or allow use of predictive technology. Users should continue to use a blood glucose (BG) meter and test strips in order to make treatment decisions.

After the startup period, the new active sensor session will begin.

⚑ Note: If you see a Sensor Not Started alert, contact Dexcom support. If glucose alerts and readings do not match symptoms or expectations, use a BG meter to make diabetes treatment decisions.

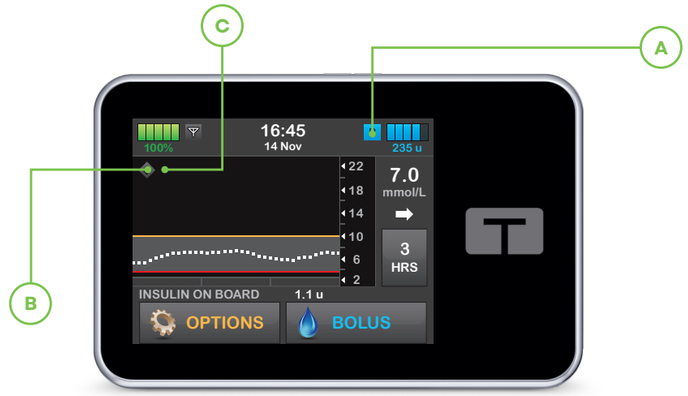
*Continuous Glucose Monitoring (CGM) sold separately.

CONNECTION TIPS

If the Out of Range icon is on the insulin pump screen (pictured below), then the sensor is not communicating with the pump. When a sensor glucose reading cannot be provided, "- - -" shows in the place where the sensor glucose value is normally shown.

- ✓ For ideal connectivity, it is suggested that the user faces the pump screen out and away from their body and wear the pump on the same side of the body that they wear the sensor.
- ✓ Make sure that nothing is rubbing or obstructing the sensor.
- ✓ Please note that wireless communication does not work well through water so the transmission range is lower.

EXPLANATION OF ICONS



INSULIN ADJUSTMENTS	A	B
Delivers basal rate from Personal Profile	B	◇
Increases basal insulin delivery	B	◇
Delivers an automatic correction bolus†	💧	◇
Decreases basal insulin delivery	B	◇
Stops basal insulin delivery	0	◇

ACTIVITY STATES	C
Sleep Activity enabled	zzz
Exercise Activity enabled	🏃

!	A system reminder, alert, error, or alarm is active.
💧	A bolus is being delivered.
B	Basal insulin is programmed and being delivered.
T	A temporary basal rate is active.
💧	Control-IQ technology is delivering an automatic correction bolus.
Y	CGM sensor session is active, and the transmitter is communicating with the pump.

B	Control-IQ technology is increasing basal insulin delivery.
B	Control-IQ technology is decreasing basal insulin delivery.
!	All insulin deliveries are stopped.
0	A basal rate of 0 u/hr is active.
T	A temporary basal rate of 0 u/hr is active.
Y	CGM sensor session is active, but the transmitter is not communicating with the pump.

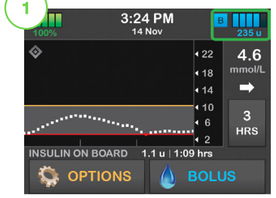
†If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

View Status

ON THE T:SLIM X2™ INSULIN PUMP

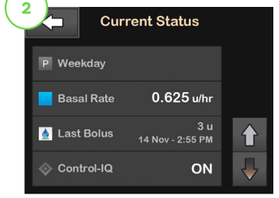
With CGM

1



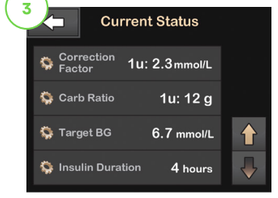
Tap the insulin level icon in the upper right corner of the Home screen.

2



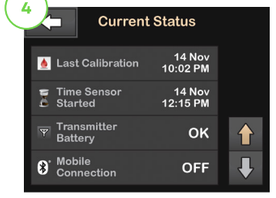
Your t:slim X2 insulin pump will display the name of the user's active profile, the current basal rate, the time and amount of the last bolus, and whether or not they are using Control-IQ technology. If the user has an active Extended Bolus, this screen will show how much insulin has been delivered out of the total amount requested.

3



Tap the **Down Arrow** to display the current Correction Factor, Carb Ratio, Target BG, and Insulin Duration.

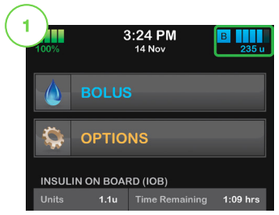
4



Tap the **Down Arrow** to display the Last Calibration, Time Sensor Started, Transmitter Battery status, and Mobile Connection status.

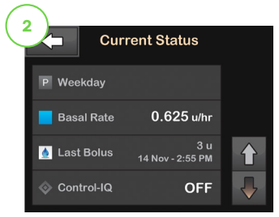
Without CGM

1



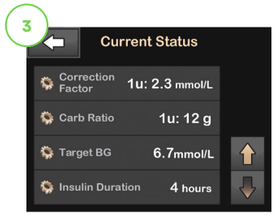
Tap the insulin level icon in the upper right corner of the Home screen.

2



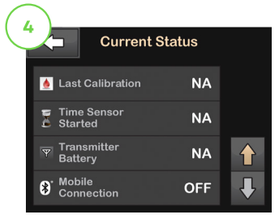
Your t:slim X2 insulin pump will display the name of the user's active profile, the current basal rate, the time and amount of the last bolus, and whether or not they are using Control-IQ technology. If the user has an active Extended Bolus, this screen will show how much insulin has been delivered out of the total amount requested.

3



Tap the **Down Arrow** to display the current Correction Factor, Carb Ratio, Target BG, and Insulin Duration.

4



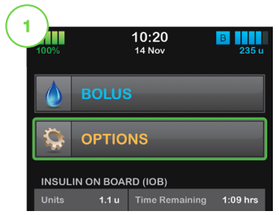
Tap the **Down Arrow** to display the Last Calibration, Time Sensor Started, Transmitter Battery status, and Mobile Connection status.

Personal Profiles

ON THE T:SLIM X2™ INSULIN PUMP

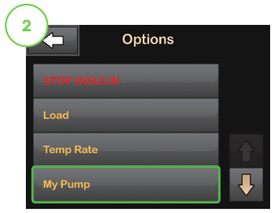
The instructions below are provided as a reference tool for those who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown

1



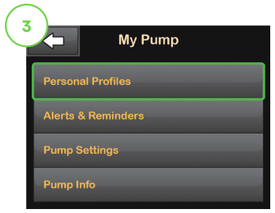
Tap OPTIONS.

2



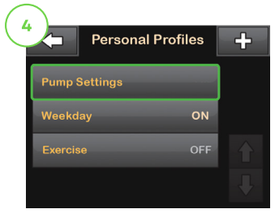
Tap My Pump.

3



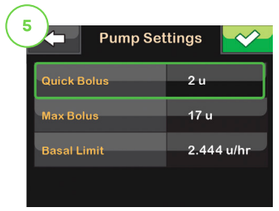
Tap Personal Profiles.

4



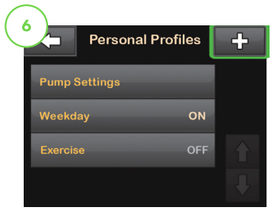
Tap Pump Settings to view and edit Quick Bolus, Max Bolus and Basal Limit settings.

5



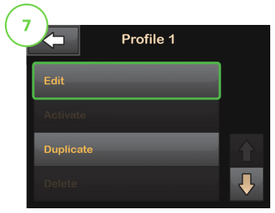
Tap each item to edit.

6



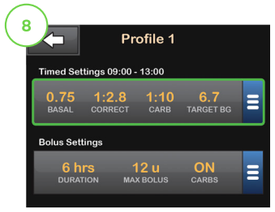
Once finalised, return to the Personal Profiles screen. Tap + to add a new profile or tap the name of the Personal Profile to view or edit.

7



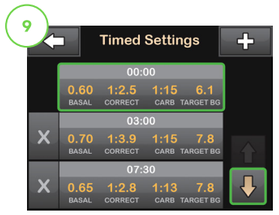
Tap Edit to edit or view your settings.

8



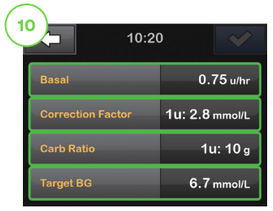
Tap your current settings to see the other segments of your day.

9



Tap the time segment you wish to edit. If not all segments are visible, tap the Down Arrow.

10



Tap Basal, Correction Factor, Carb Ratio, or Target BG to make changes then tap ✔. When you are finished, tap ✔.

11

Confirm settings. Recent changes appear in orange. Tap ✔ to confirm.

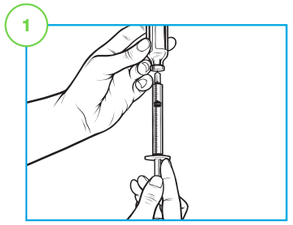
How to fill up the cartridge

Scan here
tutorial video

Before starting:

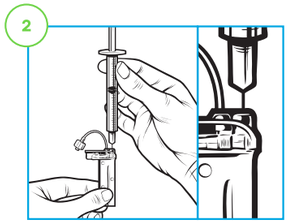
Open the pouch leaving contents on the inside of the packet and wash hands.

1



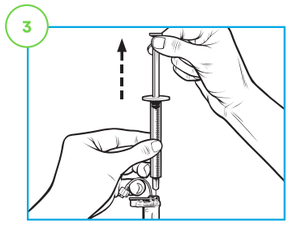
Attach the needle to the syringe and fill the syringe from the insulin vial. It is recommended to fill the cartridge 120-300u.

2



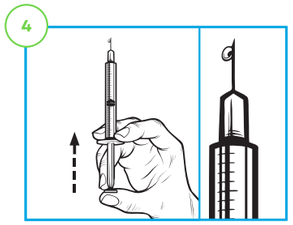
Insert the needle into the top of the white insulin fill port. Do not force the needle.

3



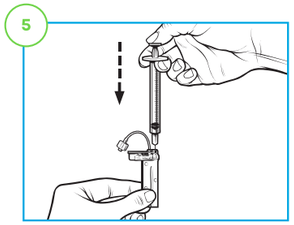
Make sure that the cartridge and syringe are upright and pull the top of the plunger upwards to remove any air that is left in the fill chamber. You should see one to two air bubbles. Release the plunger and it will return to a neutral position.

4



Remove the syringe from the cartridge. Turn the syringe so the needle is facing upwards and tap to release any air bubbles so they shift to the top. Push the air bubbles out of the top of the syringe making sure they clear all the way through the needle.

5



Reinsert the syringe into the fill port of the cartridge and slowly push the plunger down to fill the cartridge. It is normal to feel increased pressure towards the end.

Maintain pressure on the syringe as you remove the needle and remove the syringe from the cartridge.

Check to make sure that everything looks OK and there is no leakage from the cartridge.

DO NOT PUT COLD INSULIN INTO CARTRIDGE

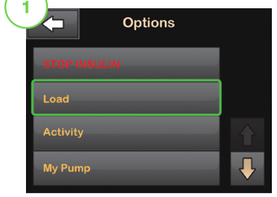
AIR BUBBLES ARE RELEASED OUT OF COLD INSULIN DUE TO THERMAL EXPANSION AS IT WARMS UP.

Load a Cartridge

ON THE T:SLIM X2™ INSULIN PUMP

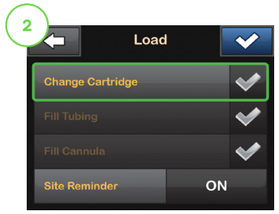
The instructions below are provided as a reference tool for those who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown.

1



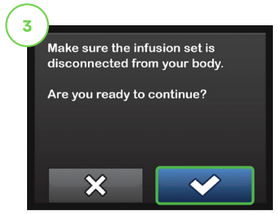
From the Options menu, tap Load.

2



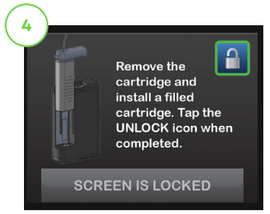
Tap Change Cartridge. A screen will appear to confirm that all insulin deliveries will be stopped. Tap ✓ to continue.

3



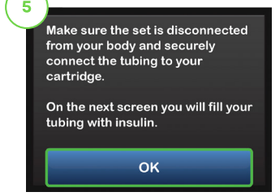
Disconnect the infusion set from your body and tap ✓ to continue.

4



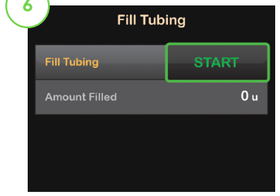
Remove the used cartridge. Install filled cartridge. Tap the unlock icon when completed. Tap ✓ to continue.

5



Verify that the infusion set is disconnected from your body. Connect the infusion set tubing to the tubing connector on the cartridge. Tap OK.

6

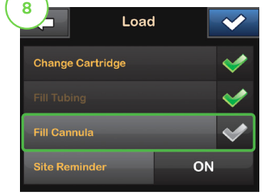


Hold the pump vertically to ensure any air in the cartridge will be dispelled first. Tap START. The pump will beep and vibrate regularly while the tubing is filled.

7

Tap STOP after three drops of insulin are seen at the end of the infusion set tubing, or after a minimum of 10 u have been filled. Verify that drops are seen and tap DONE.

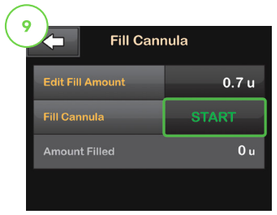
8



From the load menu, tap Fill Cannula. Insert a new infusion set and connect filled tubing to site. Then tap ✓.

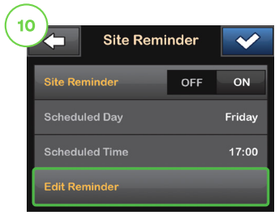
NOTE: If you are using a steel needle infusion set, there is no cannula fill required. Skip this section.

9



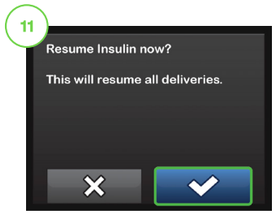
Tap Edit Fill Amount. Select amount needed for cannula fill. Refer to your infusion set instructions for use for proper cannula fill amount. Tap ✓. Tap START.

10



After the cannula fill is complete. You can set a Site Change reminder. Tap ✓ if correct. Tap Edit Reminder if settings need to be changed.

11



A confirmation screen is displayed. Tap ✓. A reminder to test BG in 1-2 hours will display. Tap ✓.

12

The RESUMING INSULIN screen will appear.

t:slim X2™ Insulin Pump

T:LOCK™ INFUSION SETS AND CARTRIDGES

AutoSoft 90

- 90° insertion angle
- Integrated inserter
- Teflon cannula

AutoSoft 30

- 30° insertion angle
- Integrated inserter
- Teflon cannula

TruSteel Set

- Manual 90° insertion angle
- Stainless steel/metal cannula

VariSoft Set

- Manual angled set
- Teflon cannula

t:lock Infusion Set and Cartridge Pharmac Order Codes (10 per pack)

AutoSoft 90 Infusion Set t:lock 6mm/60cm	2556804
AutoSoft 90 Infusion Set t:lock 6mm/110cm	2556812
AutoSoft 90 Infusion Set t:lock 9mm/60cm	2556820
AutoSoft 90 Infusion Set t:lock 9mm/110cm	2556839
AutoSoft 30 Infusion Set t:lock 13mm/60cm	2556847
AutoSoft 30 Infusion Set t:lock 13mm/110cm	2556855
VariSoft Infusion Set t:lock 13mm/60cm	2679833
TruSteel Infusion Set t:lock 6mm/60cm	2556863
TruSteel Infusion Set t:lock 6mm/80cm	2616491
TruSteel Infusion Set t:lock 8mm/60cm	2556898
TruSteel Infusion Set t:lock 8mm/80cm	2612550

t:lock Cartridge

t:lock Cartridge	2556790

Cannula Fill and Site Change Guidelines for Infusion Sets

	Fill
AutoSoft 90	6mm: 0.3 units, 9mm: 0.5 units
AutoSoft 30	0.7 units
TruSteel	0 units/no fill
VariSoft	0.7 units

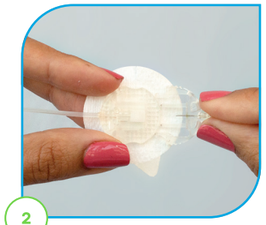
T:SLIM X2 INSULIN PUMP

TruSteel Infusion Set

1

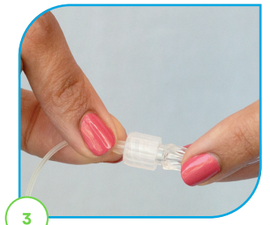
Open packaging and remove the protective cap from the connector needle.

⚑ Note: Clean the insertion area with an alcohol wipe or other recommended skin preparation.



2

Hold the connector needle at the point where it connects with the tubing and insert it into the coupling housing. You should hear a click.



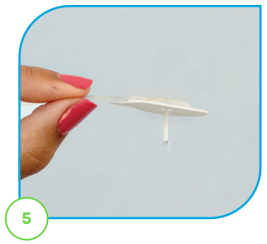
3

To attach the infusion set tubing to the t:lock connector on the cartridge, twist the connector clockwise until tight, then twist another quarter of a turn to ensure a secure connection.

4

Fill your tubing according to the instructions detailed in the Tandem Diabetes Care insulin pump user guide.

▲ Caution: DO NOT fill tubing while the infusion set is connected to your body.



5

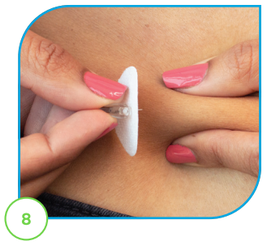
When filling the tubing, hold the steel needle pointing down. Make sure there is no air in the tubing. Stop after three drops of insulin have appeared from the needle.

6

While holding the retaining wings of the infusion set, carefully remove the backing paper under the needle.

7

Gently twist and pull off the guard from the steel needle.

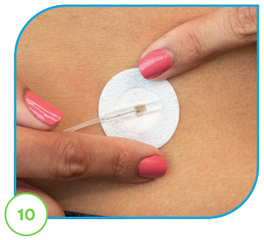


8

Pinch the skin at your selected insertion area with one hand to help lift the skin away from any muscle tissue.

9

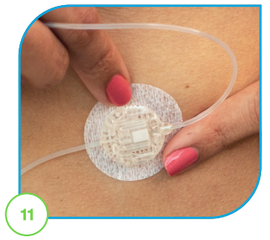
Insert the needle and release the pinched skin.



10

Ensure the adhesive tape is secured thoroughly onto your skin.

▲ Caution: DO NOT attempt to straighten the adhesive if curled.



11

Remove the backing paper from the coupling housing and attach it to a location that allows for easy access.

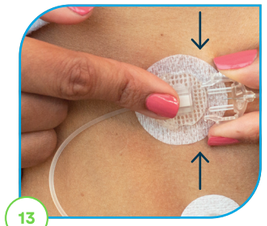
⚑ Note: Ensure that the tubing between the introducer needle and housing is not too tight.

12

Skip the “Fill Cannula” step in the load process, set your Site Reminder for 48 hours, depending on your insulin type, and resume insulin.

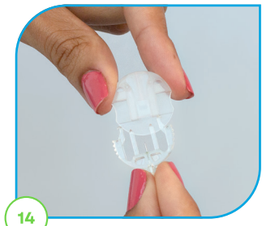
▲ Caution: ALWAYS check glucose levels 1-2 hours after inserting to make sure it’s working properly.

Disconnect



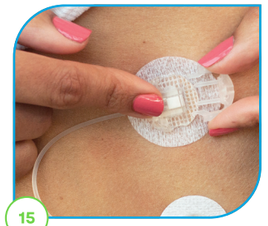
13

Place your finger in front of the coupling housing, gently squeeze the sides of the connector and pull the connector needle straight out.



14

Insert the circular protective cap into the connector needle.



15

Insert the disconnect cover into the coupling housing.

Reconnect

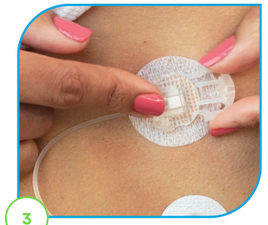
1

Remove the protective cap from the connector needle.

2

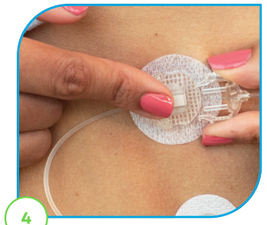
With the needle pointing down, fill the tubing until you see insulin drop from the needle.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.



3

Remove the disconnect cover from the coupling housing.



4

Hold the connector needle and insert it into the coupling housing.
You should hear a click.

Scan here

tutorial video

T:SLIM X2 INSULIN PUMP

AutoSoft 90 Infusion Set

1

To open, pull the red tape to remove the sterile plastic seal. Remove the paper.

⚠ Caution: DO NOT use if the seal or sterile paper has been broken.

⚑ Note: Clean the insertion area with an alcohol wipe or other recommended skin preparation.

2

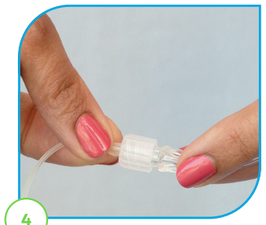
Remove the lid by pressing the three raised dots on either side of the lid firmly with one hand and lifting the flat tab of the lid with the other hand.

⚠ Caution: DO NOT touch or bend the introducer needle.

3

Unhook the tubing from the notch on the insertion device, then gently unwind the tubing. Stop when you get to the end.

⚠ Caution: Be careful when handling the insertion device to keep from dislodging the cannula housing.



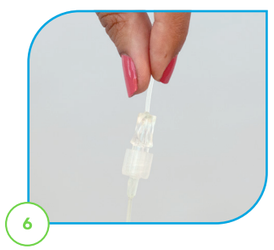
4

To attach the infusion set tubing to the t:lock connector on the cartridge, twist the connector clockwise until tight, then twist another quarter of a turn to ensure a secure connection.

5

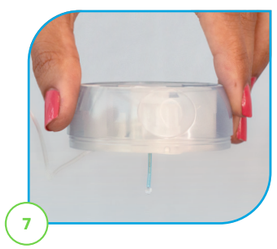
Fill your tubing according to the instructions in the Tandem Diabetes Care insulin pump user guide.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.



6

When filling the tubing, hold the introducer needle pointing down and hold the tubing straight upwards at the t:lock connector. Make sure there are no gaps of air in the tubing.



7

Stop after three drops of insulin have appeared from the introducer needle.

⚑ Note: The approximate fill volumes are 10-15 units for 60 cm tubing, and 20–25 units for 110 cm tubing

8

Pull up gently on the backing paper to remove it from the adhesive tape.

⚠ Caution: Be careful not to pull the backing paper too hard.

9

Make sure the tubing hangs freely (not in the notch), then grip the lined ridges and pull the spring loader back until you hear a click.

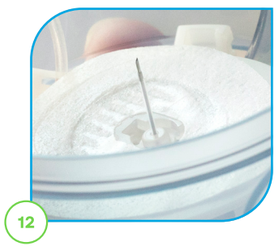
10

Remove the needle guard from the introducer needle by gently twisting and pulling it off.

11

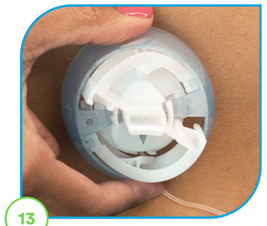
Slide the tubing into the closest notched edge.

⚠ Caution: If the introducer needle is not straight, pain or minor injury may occur during insertion.



12

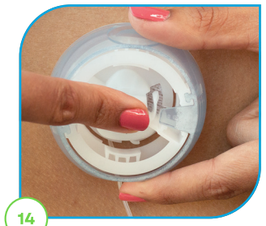
Prior to insertion, it is critical to verify that the plastic cannula is below the tip of the introducer needle.



13

Simultaneously squeeze the round indentations on both sides of the insertion device to insert.

⚑ Note: The triangle inside the insertion device points to the direction the tubing will face.



14

Gently push the back of the inserter to secure the adhesive tape onto the skin.

⚑ Note: Skipping this step may result in your infusion set falling off early and/or a bent cannula.

15

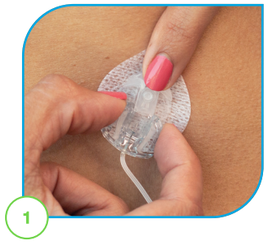
Hold the white tabs of the insertion device and gently pull back to remove the introducer needle. Ensure the adhesive tape is thoroughly secured onto your skin.

16

Fill cannula 0.3 units (6 mm cannulas) or 0.5 units (9 mm cannulas). Put the lid back on the insertion device before disposing.

⚠ Caution: ALWAYS check glucose levels 1-2 hours after inserting to make sure it's working properly.

Disconnect



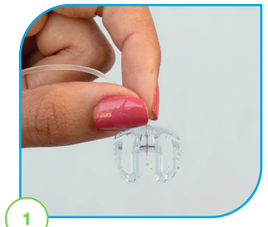
1

Place your finger in front of cannula housing, gently squeeze the sides near the center of the connector, and pull the connector needle straight out.

2

Insert the disconnect cover into the cannula housing.

Reconnect



1

Remove the circular protective cap from the connector needle. If needed, fill the infusion set with the needle pointing down until insulin drops from the needle.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.

2

Remove the disconnect cover. Insert the connector needle into the cannula housing. You should hear a click.

Scan here

tutorial video

T:SLIM X2 INSULIN PUMP

AutoSoft 30 Infusion Set

1

To open, pull the red tape to remove the plastic seal. Remove the paper.

⚠ Caution: DO NOT use if the seal or sterile paper has been broken.

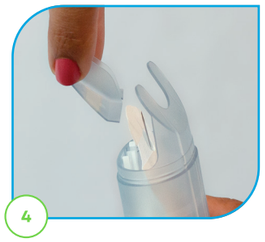
⚑ Note: Clean the insertion area with an alcohol wipe or other recommended skin preparation.

2

Hold the lined indentations on the insertion device with one hand, slightly twist, and pull the lid off with the other.

3

Place your fingers on the lined indentations on each side and pull back the spring softly until you hear a click. The needle protector should lift up or peel off.



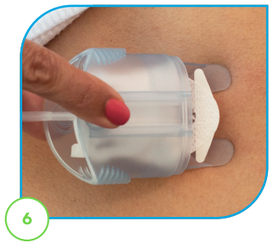
4

If the needle protector hasn't fallen off, carefully remove it before insertion.

⚠ Caution: DO NOT touch or bend the introducer needle.

5

Make sure the tape is not stuck onto the introducer needle.

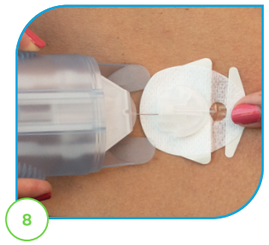


6

Place your finger on the top button and your thumb on the bottom button of the device. Place the legs of the insertion device flat on the skin to ensure an angle of 30 degrees.

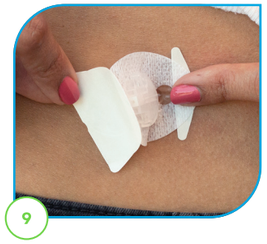
7

While maintaining a 30-degree angle, gently squeeze the buttons once to insert the cannula.



8

Place your finger on the clear window or tape and gently pull the insertion device straight back.



9

Keeping your finger on the clear window or tape, carefully remove the backing paper under the housing and press the adhesive gently against your skin.

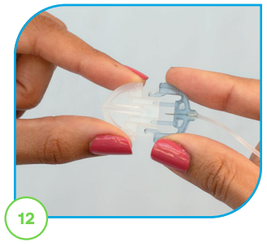
10

Remove the backing paper under the front end and ensure the adhesive tape is thoroughly secured onto your skin.

⚠ Caution: DO NOT attempt to straighten the adhesive if curled.

11

To attach the infusion set tubing to the t:lock connector on the cartridge, twist the connector clockwise until tight, then twist another quarter of a turn to ensure a secure connection.

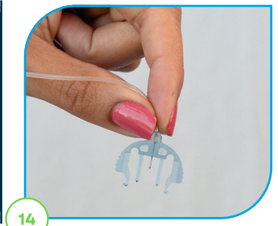


12

Remove the protective cap from connector needle.

13

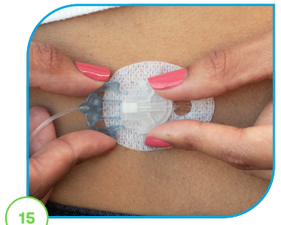
Fill your tubing according to the instructions detailed in the Tandem Diabetes Care insulin pump user guide.
⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.



14

When filling the tubing, hold the connector needle pointing down. Make sure there is no air in the tubing.

⚑ Note: The approximate fill volumes are 10-15 units for 60 cm tubing and 20-25 units for 110 cm tubing.



15

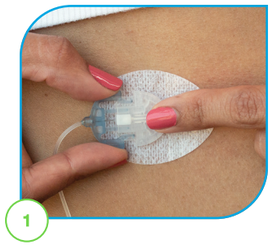
After filling the tubing, connect it to the infusion set by holding the ridged sides of the infusion set and push into the plastic cannula housing on your body. You should hear a click.

16

Fill cannula 0.7 units. Put the lid back on the insertion device before disposing.

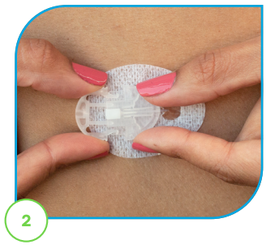
⚠ Caution: ALWAYS check your glucose levels 1-2 hours after inserting to make sure it's working properly.

Disconnect



1

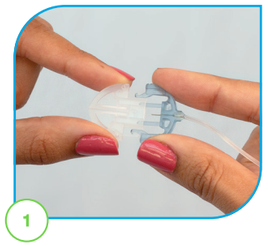
Place your finger in front of the cannula housing, gently squeeze the sides of the infusion set, and pull the connector needle straight out.



2

Insert the protective cap into the connector needle. Insert the disconnect cover into the cannula housing.

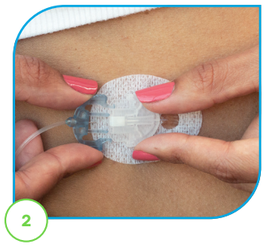
Reconnect



1

Remove the protective cap from the connector needle. With the needle pointing down, fill the tubing until insulin drops from the needle.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.



2

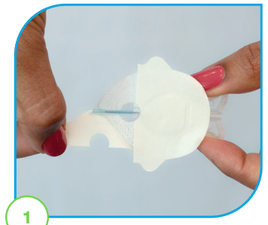
Remove the disconnect cover from the cannula housing. Hold the ridged sides of the infusion set and push into the plastic cannula housing on your body. You should hear a click.

Scan here

tutorial video

T:SLIM X2 INSULIN PUMP

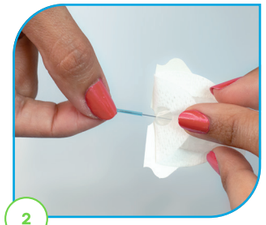
VariSoft Infusion Set



1

Hold the indented sides of the introducer needle with one hand and gently remove the front backing paper with the other.

⚑ Note: Clean the insertion area with an alcohol wipe or other recommended skin preparation.



2

Gently twist and pull off the guard from the needle.

⚠ Caution: DO NOT touch or bend the introducer needle.

3

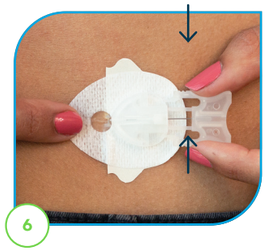
Pinch the skin at your selected insertion area with one hand to help lift the skin away from any muscle tissue.

4

Insert the needle completely and release the pinched skin. This will leave the cannula in the layer of fat just below the skin, but above muscle tissue.

5

Press down on the front portion of the tape to secure the adhesive to your skin.



6

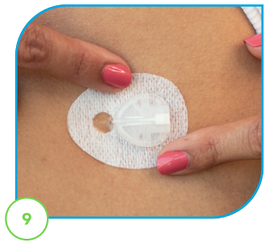
Gently place your finger in front of the clear window, squeeze the grooved sides with your other hand, and pull the introducer needle straight back.

7

If you have trouble removing the introducer needle, try straddling the clear window with two fingers while pulling straight back.

8

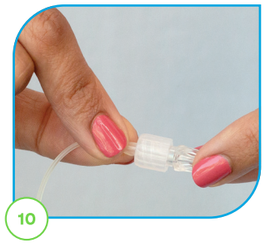
Carefully lift the cannula housing to expose the back, and remove the rest of the backing paper.



9

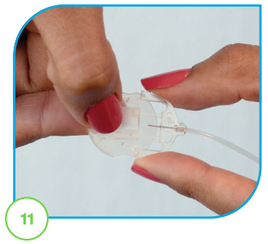
Ensure the adhesive tape is secured thoroughly onto your skin.

⚠ Caution: DO NOT attempt to straighten the adhesive if curled.



10

To attach the infusion set tubing to the t:lock connector on the cartridge, twist the connector clockwise until tight, then twist another quarter of a turn to ensure a secure connection.



11

Remove the protective cap from connector needle.

12

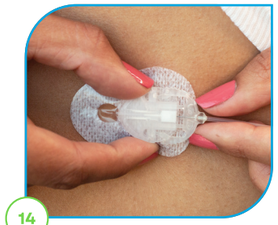
Fill your tubing according to the instructions detailed in the Tandem Diabetes Care insulin pump user guide.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.

13

When filling the tubing, hold the connector needle pointing down. Make sure there are no gaps of air in the tubing. Stop after three drops of insulin have appeared.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.



14

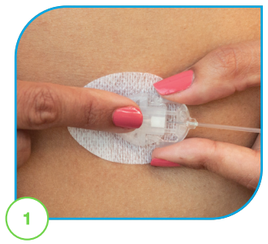
Hold the connector needle at the point where it connects with the tubing and with the open notches of the connector needle facing your body, insert it into the cannula housing. You should hear a click.

15

Fill cannula 0.7 units.

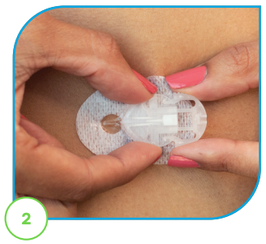
⚠ Caution: ALWAYS check glucose levels 1-2 hours after inserting to make sure it's working properly.

Disconnect



1

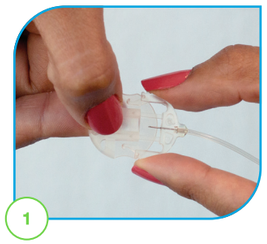
Place your finger on top of the cannula housing, gently squeeze the grooved sides of the infusion set and pull straight out.



2

Insert the protective cap into the connector needle. Insert the disconnect cover into the cannula housing.

Reconnect



1

Remove the protective cap from the connector needle. With the needle pointing down, fill the tubing until insulin drops from the needle.

⚠ Caution: DO NOT fill tubing while the infusion set is connected to your body.

2

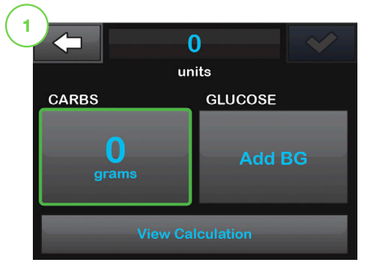
Remove the disconnect cover from the cannula housing. Hold the connector needle at the point where it connects with the tubing and insert it into the cannula housing. You should hear a click.

Bolus

ON THE T:SLIM X2™ INSULIN PUMP

The instructions below are provided as a reference tool for those who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown.

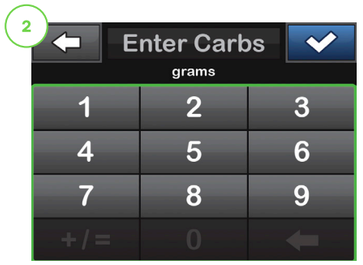
1



Tap 0 grams to enter the carbs for your bolus.

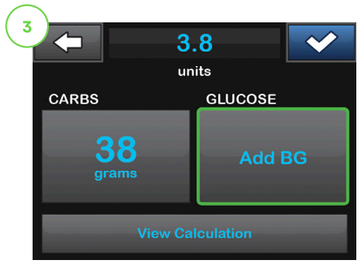
NOTE: If this reads "units," the carb feature is turned off in the active profile.

2



Enter desired value. Be sure "grams" is displayed above keypad for food boluses. Tap ✓ to continue.

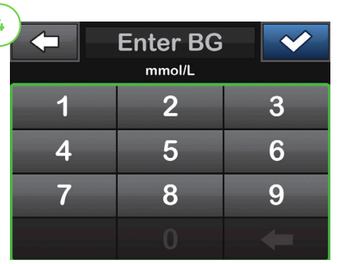
3



Tap Add BG to enter your blood glucose (BG)

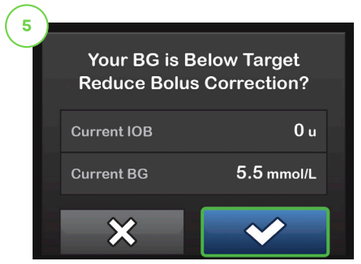
NOTE: If you have a CGM session active, and if there is both a CGM value and a CGM trend arrow available on the CGM Home Screen, your glucose value is auto populated in the GLUCOSE field.

4



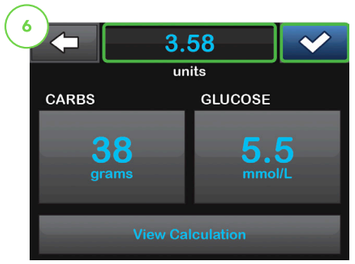
Enter desired value. Be sure "mmol/L" is displayed above keypad when entering BG values.

5



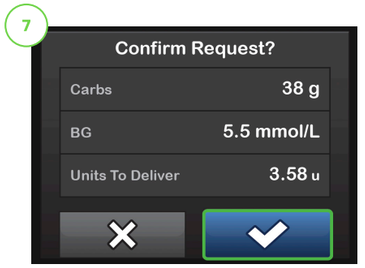
If a BG is entered that is below the target, but above or 3.9 mmol/L, you will be offered the option to reduce the bolus amount. To accept that reduction tap ✓; otherwise, tap ✕

6



Tap ✓ to continue. Tap the calculated units value to manually adjust recommended dose.

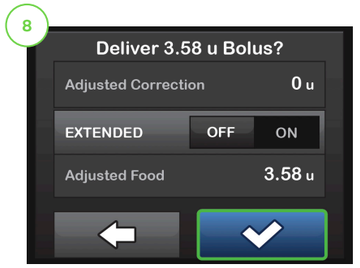
7



Verify the dose and tap ✓ to confirm.

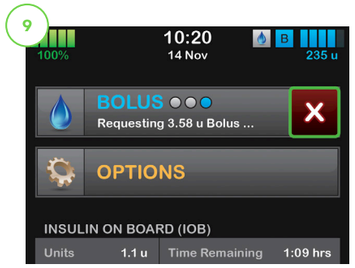
NOTE: Calculations above are based on preset insulin-to-carb ratios and correction factors, which may be set in Personal Profiles.

8



Tap ✓ to deliver the food bolus immediately. The BOLUS INITIATED screen will appear to confirm delivery has started.

9



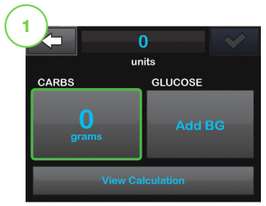
To cancel the undelivered portion of the bolus, tap the white X next to BOLUS on the Home Screen, then tap ✓ to confirmed cancelled bolus.

Extended Bolus

ON THE T:SLIM X2™ INSULIN PUMP

The instructions below are provided as a reference tool for those who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown.

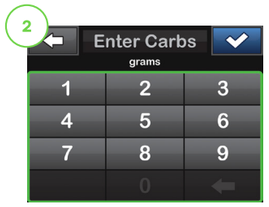
1



Tap 0 grams to enter the carbs for your bolus.

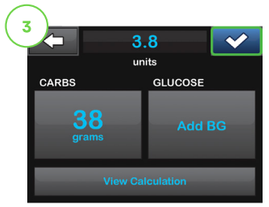
NOTE: If this reads "units," the carb feature is turned off in the active profile.

2



Enter desired value. Be sure "grams" is displayed above keypad for food boluses. Tap ✓ to continue.

3

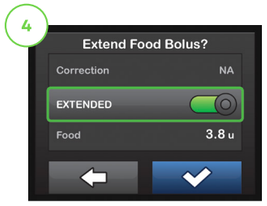


Tap ✓ to continue, then tap ✓ to confirm.

NOTE: If an above-target blood glucose (BG) is entered, the correction bolus will not be extended.

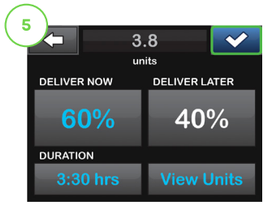
NOTE: If you have a CGM session active, and if there is both a CGM value and a CGM trend arrow available on the CGM Home Screen, your glucose value is autopopulated in the GLUCOSE field.

4



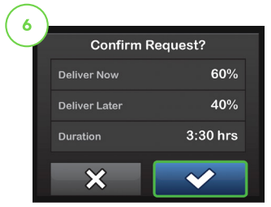
Tap EXTENDED to toggle the extended bolus feature on or off. Tap ✓ to continue.

5



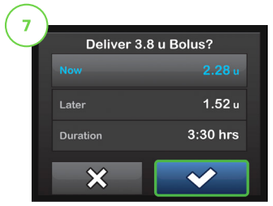
Tap ✓ to use default settings or tap DELIVER NOW and DURATION and set your desired values, then tap ✓ to continue. If Control-IQ technology is ON, duration is capped at 2 hours.

6



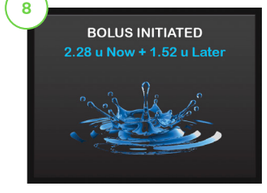
Tap ✓ to confirm.

7



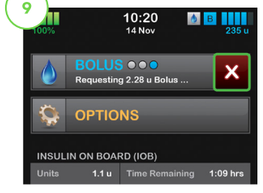
The delivery screen will confirm how much insulin will be delivered up front, how much will be delivered over time, and the delivery duration. Tap ✓ to start the bolus.

8



The BOLUS INITIATED screen will appear to confirm delivery has started.

9



To cancel the undelivered portion of the bolus, tap the white X next to BOLUS on the Home Screen, then tap ✓ to confirm canceled bolus.

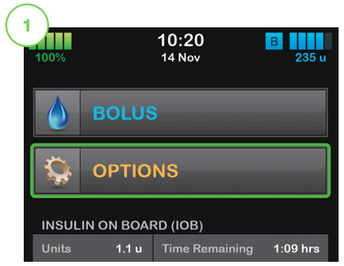
Setting a Temp Basal Rate

ON THE T:SLIM X2™ INSULIN PUMP

The instructions below are provided as a reference tool for those who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown.

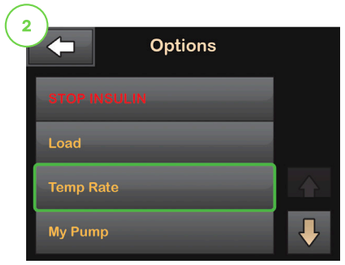
Note: When Control-IQ technology is enabled, Temp Rates are not available. If you wish to set a Temp rate, Control-IQ needs to be turned off. Alternatively, considering utilising the Sleep and Exercise Activity Settings

1



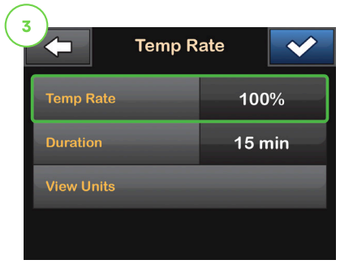
Tap OPTIONS.

2



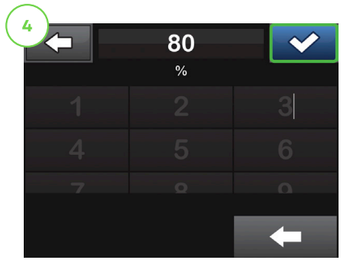
Tap Temp Rate.

3



Tap Temp Rate.

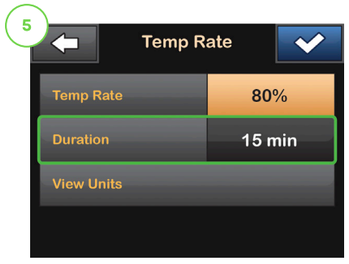
4



Using the onscreen keypad enter desired percentage. Tap ✓.

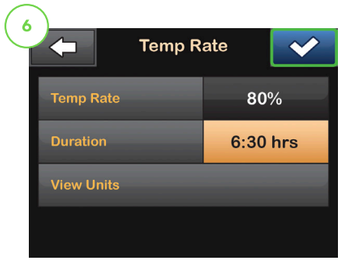
NOTE: Current rate is 100%. An increase is greater than 100% and a decrease is less than 100%.

5



Tap Duration. Using the onscreen keypad enter desired length of time for Temp Rate. Tap ✓.

6



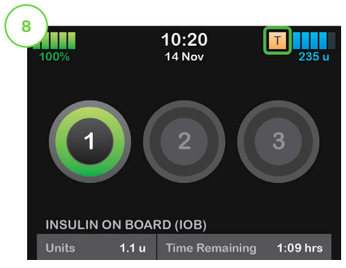
Verify settings and tap ✓.

NOTE: To see the actual units to be delivered, tap View Units.

7

The TEMP RATE STARTED screen will appear to confirm the Temp Rate has started.

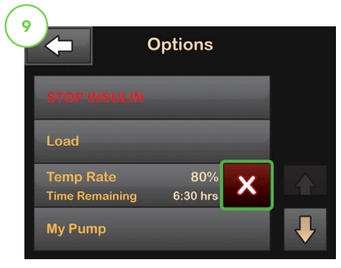
8



The Screen Lock screen will appear with the orange T icon indicating a Temp Rate is active.

NOTE: If a Temp Rate of 0% is currently active, the orange T icon will be replaced with a red T icon

9



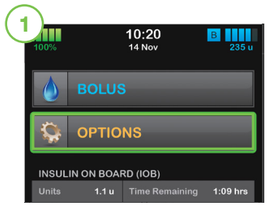
To stop Temp Rate at any time, tap OPTIONS, then tap the white X. A confirmation screen will appear. Tap ✕.

Stop and Resume Insulin Delivery

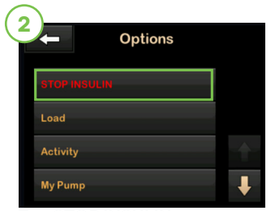
ON THE T:SLIM X2™ INSULIN PUMP

The instructions below are provided as a reference tool for those who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown.

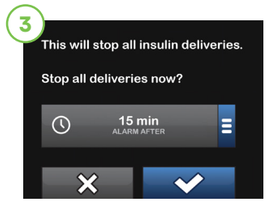
Stop Insulin Delivery



Tap **OPTIONS**.

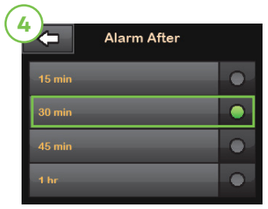


Tap **STOP INSULIN**.



Tap ✓ to accept the displayed setting. To change the Resume Pump Alarm setting, tap the panel in the middle of the screen.

NOTE: The pump will NOT automatically resume insulin delivery after the time has elapsed. The user will receive a Resume Pump Alarm after the selected duration (15 min, 30 min, 45 min, or 1 hour).

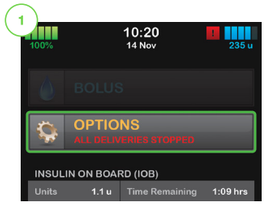


Select the button that corresponds with the time you would like the Resume Pump Alarm to display.

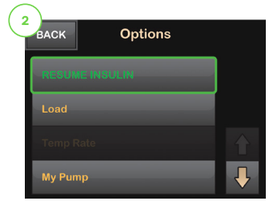
If a different value is selected, the pump will return to the previous confirmation screen with the updated selection.

Resume Insulin Delivery

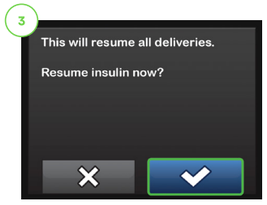
NOTE: Any temp rates or boluses active before you stopped delivery will not resume. It will resume your active personal profile.



Tap **OPTIONS**.



Tap **RESUME INSULIN**.



Confirm by tapping ✓

Control-IQ Technology

ON THE T:SLIM X2™ INSULIN PUMP

This Quick Reference Sheet will teach you how to turn Control-IQ technology on.

From the Home screen, tap **OPTIONS.**

⚑ Note: These instructions are provided as a reference tool for pump users and caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 pump, please refer to its user guide.

Tap **My Pump**.

Tap **My Control-IQ**.

Toggle Control-IQ on.

⚑ Note: User must have an active Personal Profile with CARBS turned on and an active CGM* session to turn Control-IQ technology on.

Pump Tip: Existing users can tap Options, the down arrow, History, Pump History, Delivery Summary, and then 14 Day Average to find their average Total Insulin.

Enter the user's weight and average daily insulin use.

⚑ Note: Total Daily Insulin should be an estimate of the total basal and bolus insulin the user requires in a 24-hour period.

Tap ✓ to save the settings.

Control-IQ technology is on.

*Continuous Glucose Monitoring (CGM) sold separately.

HOW IT WORKS

The t:slim X2 insulin pump with Control-IQ technology uses continuous glucose monitoring (CGM)* values to predict glucose levels 30 minutes ahead and automatically adjust insulin every 5 minutes.

This powerful algorithm can decrease or stop basal insulin delivery to help prevent lows. It can also increase insulin delivery and deliver automatic correction boluses† (💧) to help avoid highs.

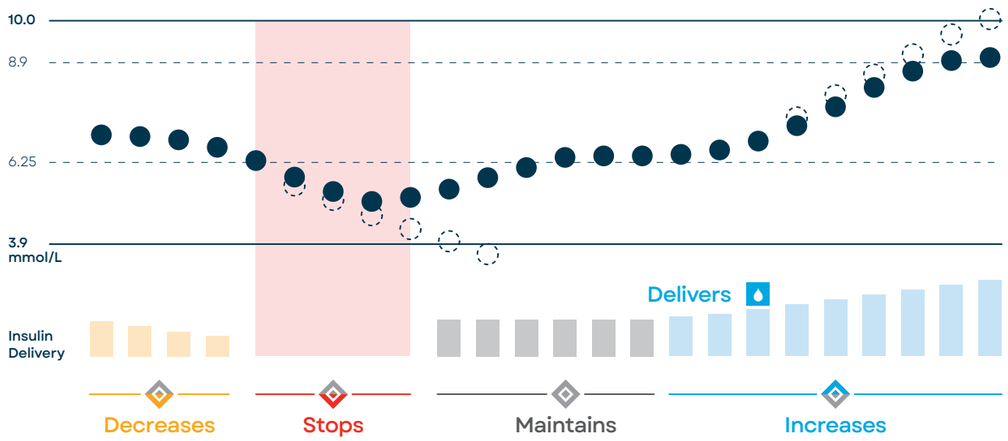
		Control-IQ	Sleep Activity	Exercise Activity
Delivers	Delivers an automatic correction bolus if sensor glucose is predicted to be above ____ mmol/L	10.0	--	10.0
B Increases	Increases basal insulin delivery if sensor glucose is predicted to be above ____ mmol/L	8.9	6.7	8.9
B Maintains	Maintains active Personal Profile settings when sensor glucose is between ____.____ mmol/L	6.25 - 8.9	6.25 - 6.7	7.8 - 8.9
B Decreases	Decreases basal insulin delivery if sensor glucose is predicted to be below ____mmol/L	6.25	6.25	7.8
0 Stops	Stops basal insulin delivery if sensor glucose is predicted to be below ____mmol/L	3.9	3.9	4.4

WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in users who require less than 10 units of insulin per day or who weigh less than 25 kilograms.

Pump Tip: Automatic correction boluses† will not be delivered while Sleep is enabled but can be delivered once per hour when the Exercise Activity is enabled.

†If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

*Continuous Glucose Monitoring (CGM) sold separately.



ACTIVITY SETTINGS

Control-IQ technology features two optional settings that adjust treatment ranges for more targeted control.

When the Sleep Activity is enabled, the system narrows and lowers the range of treatment values to 6.25-6.7 mmol/L.

When the Exercise Activity is enabled, a tighter and higher range of treatment values from 7.8-8.9 mmol/L is used.

Responsible Use of Control-IQ Technology
Control-IQ technology does not prevent all high and low blood glucose events, and is not a substitute for meal boluses and active self-management of your diabetes. Control-IQ technology will not be able to predict sensor glucose values and adjust insulin dosing if your CGM is not working properly or is unable to communicate with your pump. Always pay attention to your symptoms and blood glucose levels and treat accordingly. Please visit tandemdiabetes.com/tslimX2-use for more information.

Sleep Activity

ON THE T:SLIM X2™ INSULIN PUMP

Users can program their t:slim X2 insulin pump to automatically switch into the Sleep Activity. Two Sleep Schedules can be used.

From the Home screen, tap **OPTIONS** and then **Activity.**

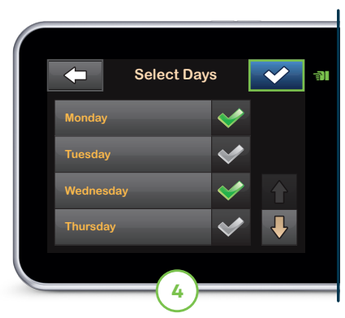
⚑ Note: These instructions are provided as a reference tool for pump users and caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 pump, please refer to its user guide.

Tap **Sleep.**

⚑ Note: Activities may not be enabled at the same time. If programmed, Sleep Schedule(s) will automatically start once Exercise is disabled.

Tap **Sleep Schedules** and then tap a Sleep Schedule.

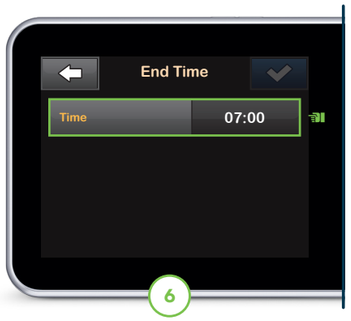
⚑ Note: If the user does not program Sleep Schedules, the Sleep Activity must be manually turned on and off.



Tap **Selected Days** and then tap each day of the week the user wants Sleep scheduled. Tap ✓ to continue.

Pump Tip: Existing users can tap Options, the down arrow, History, Pump History, Delivery Summary, and then 14 Day Average to find their average Total Insulin.

Tap **Start Time** and then tap **Time.** Use the keypad to enter the desired time. Tap ✓ to continue and then tap ✓ again.



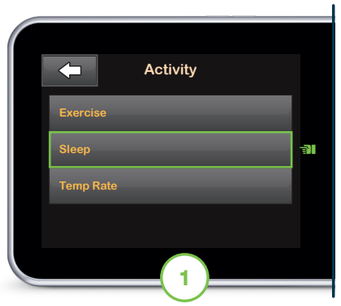
Repeat the same process to configure the **End Time.**

⚑ Note: These times should reflect the time the user generally goes to sleep and wakes up.

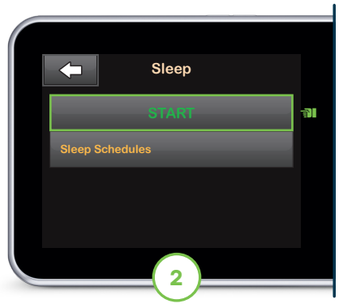
Tap ✓ to save the settings.

The SETTING SAVED screen will appear to confirm.

In addition to creating Sleep Schedules, the Sleep Activity can also be manually turned on and off from the t:slim X2 insulin pump.



From the Home screen, tap **OPTIONS** and then **Activity.** Tap **Sleep.**



Tap **START** to manually turn on the Sleep Activity.

⚑ Note: To disable the Sleep Activity, tap anywhere on the Sleep button from the Activity screen.

Sleep is now enabled.

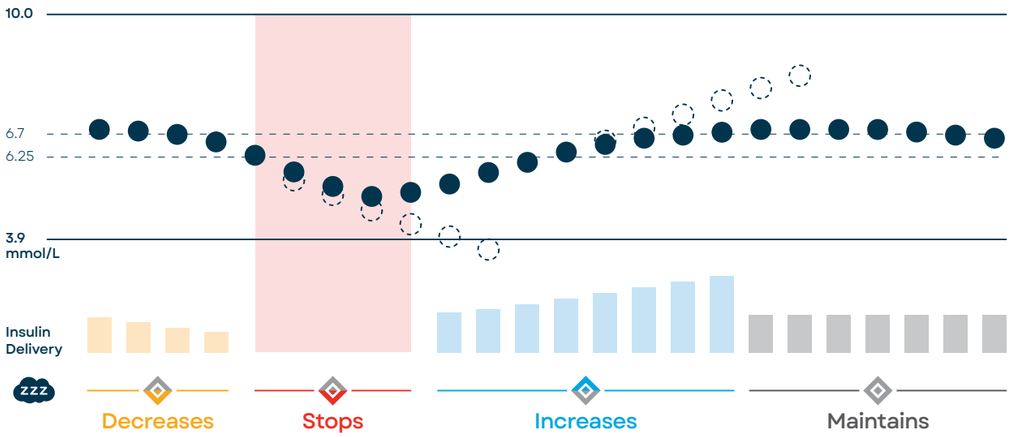
HOW IT WORKS

The t:slim X2 insulin pump with Control-IQ technology uses continuous glucose monitoring (CGM)* values to predict glucose levels 30 minutes ahead and automatically adjust insulin every 5 minutes.

When the Sleep Activity is enabled, the algorithm narrows and lowers the range of treatment values to 6.25-6.7 mmol/L when determining whether to decrease, stop, or increase basal insulin delivery.

WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in users who require less than 10 units of insulin per day or who weigh less than 25 kilograms.

*Continuous Glucose Monitoring (CGM) sold separately.



CONFIGURATION SETTINGS

- To ensure that both Sleep Schedules can be saved and enabled at the same time, the two schedules cannot overlap. One or both Sleep Schedules may be disabled at any time.
- If you manually start the Sleep Activity before a Sleep Schedule begins, it does not impact the scheduled wake time.
- Automatic correction boluses will not be delivered while the Sleep Activity is enabled.

Pump Tip: Automatic correction boluses† will not be delivered while Sleep is enabled but can be delivered once per hour when the Exercise Activity is enabled.

†If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

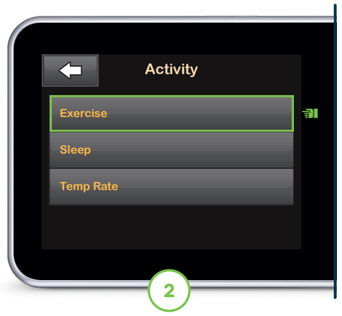
Exercise Activity

ON THE T:SLIM X2™ INSULIN PUMP

Users can program their t:slim X2 insulin pump to automatically switch off the Exercise Activity by setting a custom duration with the Exercise timer.

From the Home screen, tap **OPTIONS** and then **Activity.**

⚑ Note: These instructions are provided as a reference tool for pump users and caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 pump, please refer to its user guide.



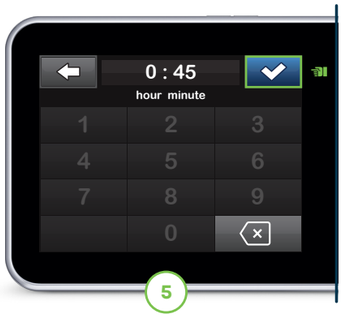
Tap **Exercise.**

⚑ Note: Activities may not be enabled at the same time. If programmed, Sleep Schedule(s) will automatically start once Exercise is disabled.

Tap **Set a Timer.**

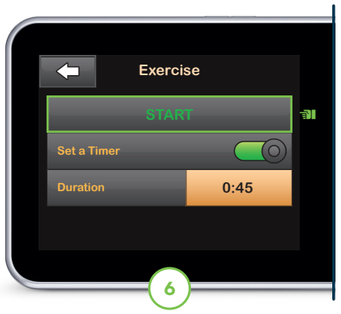
⚑ Note: If the user does not program a timer, the Exercise Activity must be manually turned off.

Tap **Duration** to edit the timer duration. Otherwise, skip to Step 6 to continue.



Use the keypad to enter the desired time. Tap ✔ to continue.

⚑ Note: The timer duration can be set from 30 minutes to 8 hours.



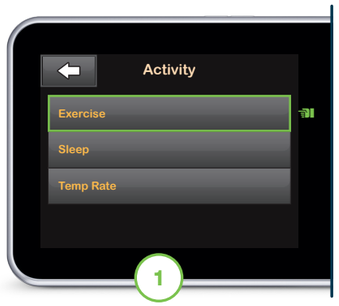
Tap **START** to turn on the Exercise Activity.

The EXERCISE STARTED screen will appear.

Exercise is now enabled and displays on the Home screen.

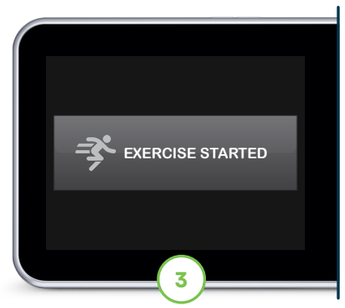
⚑ Note: The Exercise Activity will automatically be disabled once the set timer duration ends.

In addition to setting an Exercise Timer, the Exercise Activity can also be manually turned on and off from the t:slim X2 insulin pump.



From the Home screen, tap **OPTIONS** and then **Activity.** Tap **Exercise.**

Tap **START** to manually turn on the Exercise Activity.



Exercise is now enabled.

⚑ Note: To disable the Exercise Activity, tap anywhere on the Exercise button from the Activity screen.

HOW IT WORKS

The t:slim X2 insulin pump with Control-IQ technology uses continuous glucose monitoring (CGM)* values to predict glucose levels 30 minutes ahead and automatically adjust insulin every 5 minutes.

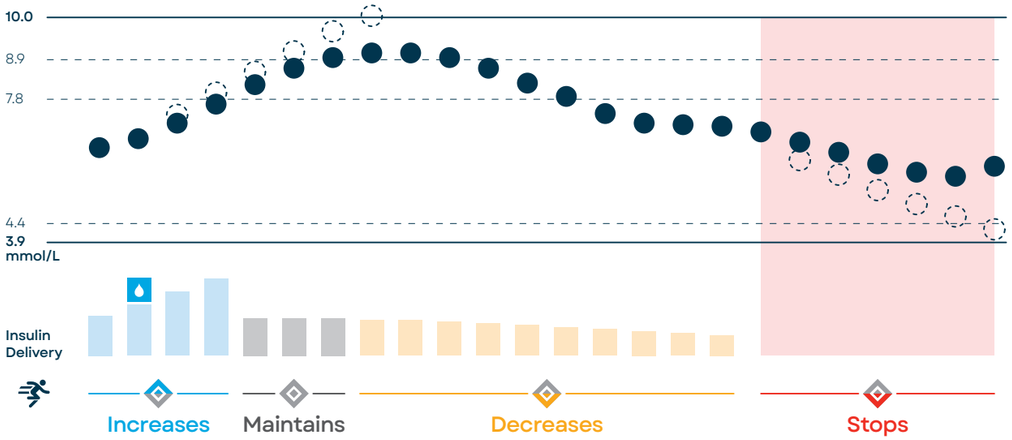
When the Exercise Activity is enabled, a tighter range of treatment values from 7.8-8.9 mmol/L is used when determining whether to decrease or increase basal insulin delivery and a predicted value of 4.4 mmol/L is used when determining whether to stop basal insulin delivery.

WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in users who require less than 10 units of insulin per day or who weigh less than 25 kilograms.

Pump Tip: Automatic correction boluses† will not be delivered while Sleep is enabled but can be delivered once per hour when the Exercise Activity is enabled.

†If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

*Continuous Glucose Monitoring (CGM) sold separately.



CONFIGURATION SETTINGS

- ✓ Control-IQ technology must be on and CGM session must be active on the t:slim X2 insulin pump to start the Exercise Activity.
- ✓ Exercise will automatically be disabled if the Sleep Activity is enabled manually. Any enabled Sleep Schedules will not start until the Exercise Activity ends.
- ✓ Automatic correction boluses (💧) will be delivered up to once per hour while the Exercise Activity is enabled.†

†If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

Responsible Use of Control-IQ Technology
Control-IQ technology does not prevent all high and low blood glucose events, and is not a substitute for meal boluses and active self-management of your diabetes. Control-IQ technology will not be able to predict sensor glucose values and adjust insulin dosing if your CGM is not working properly or is unable to communicate with your pump. Always pay attention to your symptoms and blood glucose levels and treat accordingly. Please visit tandemdiabetes.com/tslimX2-use for more information.

Tips for Success Points

1. **Schedule Sleep Activity:** Set for a minimum of 5 hours, turning on 1-2 hours post your last evening meal, and turning off prior to your first meal of the day. You can choose different time frames for weekend/ weekday or for shift work with the use of 2 schedules.
2. **Wear your CGM effectively.**
Help CGM connection by facing your pump screen outwards and wear the pump on the same side of your body as the sensor.
3. **Bolus before all food** by entering carbohydrate into the bolus calculator, unless directed otherwise by your health professional.
4. **Avoid overriding boluses** to give more insulin than the pump recommends. Automatic boluses are delivered quickly and may not be noticed. Always check Status Screen or bolus icons on CGM graph for confirmation. It is recommended to only enter carbohydrates that are eaten.
5. **Review treatment guidelines for hypoglycaemia**
A smaller treatment of ~5-10g rather than the traditional 15g quick acting glucose may be needed, since insulin may already have been reduced or suspended prior to hypoglycaemia by the technology.* Review your customised plan with your healthcare professional.
6. **Read bolus prompts carefully.** If glucose is between 3.9 and target (6.1 mmol/L when CIQ is turned on), the pump will give you the option to reduce the bolus calculation. If you prefer to receive the full bolus for your meal/snack, press 'No' or 'X'. Press 'Yes' or ' Image 'to subtract insulin.
6. **Suspend insulin when disconnecting**
You may miss an automatic correction or, basal adjustment if disconnected. Set the resume reminder alert from to silence alarms and help you remember to resume insulin once pump is reconnected. Suspend/ stop insulin when disconnected (e.g. for showering). Not suspending the delivery could impact ongoing basal modulation or auto-corrections, also the system will have inaccurate estimate of insulin on board (IOB)
7. **Consider the use of multiple Personal Profiles** when you have large changes in insulin requirements, such as illness or strenuous exercise. Discuss additional use of up to 6 profile pump settings with your healthcare team.
8. **Consider the use of Exercise Activity**
before, during and after periods of time with increased risk for hypoglycaemia. It is recommended to turn on ~60-90min prior to activity and turn it off when the risk for lower glucose levels has minimised.
For strenuous activity, you may wish to set up a specific Personal Profile in addition to the Exercise Activity. Discuss your exercise management plan with your healthcare team.
9. **Control-IQ technology is not a replacement for active self-management of diabetes;**
don't ignore signs and symptoms if in doubt get your meter out, change your infusion set and site every 2-3 days, troubleshoot pump, infusion set and cartridge issues as required, remembering Technical Support Team is open 24/7 for your support.

* Messer LH, Berget C, Forlenza GP. A Clinical Guide to Advanced Diabetes Devices and Closed-Loop Systems Using the CARES Paradigm. Diabetes Technol Ther. 2019;21(8):462-469. doi:10.1089/dia.2019.0105

MISSED/LATE MEAL BOLUSES

The Endocrine Society recently provided concensus recommendations[1] for delayed or missed meal boluses in AID and how to adjust the bolus dose:

30-60 minutes after start of meal
Deliver half of recommended food bolus

More than 60 minutes after start of meal
Deliver system recommended correction bolus only

The automatic correction bolus feature of Control-IQ technology helps improve TIR[2] and decreasing burden for those who miss bolus doses or are imperfect carb counters. This information should give you confidence in supporting your patients using Control-IQ technology.

References: 1. Consensus Recommendations for the Use of Automated Insulin Delivery Technologies in Clinical Practice - PubMed (nih.gov) 2. https://pubmed.ncbi.nlm.nih.gov/37067353/#:~:text=Conclusion%3A%20This%20pooled%20analysis%20of,experience%2C%20and%20high%20HbA1c%20levels.

Getting Started with the Glooko® Diabetes Management Solution

USING YOUR SMARTPHONE OR COMPUTER

1. Create account at join.glooko.com on your computer (Mac or PC), or scan QR code provided if using your phone OR simply accept the email invitation from your clinic. Alternatively, download the free Glooko app on your smartphone

   Note: The device uploader software is only available via computer browser

2. Ensure correct details are entered in the mandatory fields. Option to add your clinic's ProConnect code via the account option in the Settings menu OR if using the phone app navigate to Profile > ProConnect > + Care Team > Code

   Note: Remember to check your junk email

3. Download the Glooko Uploader via your computer. Settings > Scroll to Apps and Devices > Glooko Uploader

4. Upload your pump data via your computer

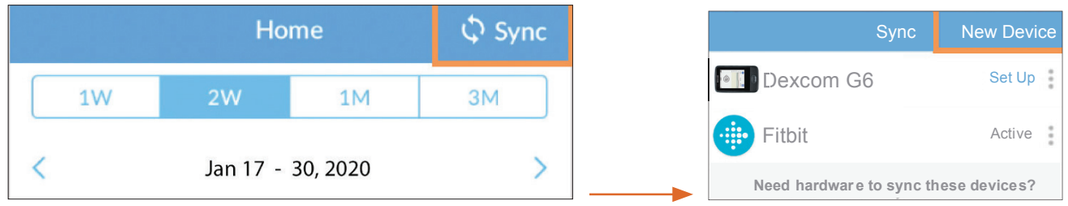
   Note: The device uploader software is only available via computer browser

5. Ensure when uploading that you use the cable which came shipped with the device and allow a moment for your computer to recognise cable drivers prior to connecting your device

Scan QR code or visit join.glooko.com to download.

Connecting Your Additional Devices From Your Smartphone

You can set up your CGM by going to the Sync menu (upper right hand corner from Home Screen) > New Device (iOS) or Add Device (Android) > Select the appropriate device (Dexcom G6 or fitness and health devices) > Select your meter from the list and tap Done.



If you are unable to upload at home, please contact your healthcare team for further instructions.

Glooko is a data management software intended for use in home and professional settings to aid individuals with diabetes and their healthcare professionals in review, analysis and evaluation of device data to support an effective diabetes management programme. Glooko connects to compatible medical devices and trackers to allow users to transfer their data to the Glooko system. Glooko is not intended to provide treatment decisions or to be used as a substitute for professional healthcare advice

FLYING WITH YOUR

Tandem Insulin Pump

If you plan to travel by air with your insulin pump, some advance planning may make your security screening go smoother.

Your device is tested for use during air travel and complies with CAA wireless transmission standards. It is also designed to withstand common electromagnetic interference and can be safely carried through metal detectors.

However, your Tandem Diabetes Care insulin pump should NOT be put through machines that use X-rays, including airline luggage X-ray machines and full-body scanners.

We recommend disconnecting at the infusion site and asking the security agent for an alternative screening method. If you prefer to stay connected, you can notify the agent about your pump and request to go through a standard metal detector wearing your pump.

It may be helpful to provide a printout of the information below to the security agent during the screening (this is available on nzmsdiabetes.co.nz/resources for printing).

If you have any questions about travelling with your insulin pump, please contact NZMS Diabetes Technical Support team on **0508 634 103** or at **diabetes@nzms.co.nz**. We are here for you 24 hours a day, 7 days a week.

Fold Here

Show this document to the airport representative

Dear airport representative,

This is an insulin pump from Tandem Diabetes Care, a life-sustaining medical device prescribed by a physician. It is designed to withstand common electromagnetic interference and can be safely carried through metal detectors, but it should not be exposed to any form of X-rays. This includes airline luggage X-ray machines and full-body scanners. Please provide a screening method other than X-ray for this insulin pump. If you have any questions about this device, please call

NZMS Diabetes Technical Support on 0508 634 103 (international +6129155009)

Sincerely,
Tandem Diabetes Care

Metal detectors

X-rays, including full body scanners and luggage screening machines

t:slim X2™ System Specifications

The following table lists t:slim X2 specifications and their related details.

SPECIFICATION TYPE	SPECIFICATION DETAILS
Classification	External PSU: Class II, Infusion Pump. Internally-powered equipment. Type BF applied part. The risk of ignition of flammable anaesthetics and explosive gases by the pump is remote. While the risk is remote, it is not recommended to operate the t:slim X2 pump in the presence of flammable anaesthetics or explosive gases
Size	7.95 cm x 5.08 cm x 1.52 cm
Weight (with full disposable)	112 grams
Operating Temperature Range	5°C to 37°C at maximum relative humidity of 95% non-condensing
Storage Temperature Range	-20°C to 60°C at maximum relative humidity of 95% non-condensing
Atmospheric Pressure	700 hPa to 1060 hPa (equivalent from -396 m up to 3048 m)
Cartridge Volume	3.0 mL or up to 300 units
Cannula Fill Amount	0.1 to 1.0 units of insulin
Insulin Concentration	U-100. Approved insulins: Humalog or NovoRapid
Alarm Type	Visual, audible, and vibratory
Basal Delivery Accuracy at all Flow Rates (tested per IEC 60601-2-24)	±5%*
Bolus Delivery Accuracy at all Volumes (tested per IEC 60601-2-24)	±5%*

5.08 cm

7.95 cm

* In extreme pressure environments, delivery accuracy may vary up to ±15%. Extreme pressure environments include any rapid elevation change of 305 metres.

t:slim X2™
System Options and Settings

The following table lists t:slim X2 options and settings and their related details.

OPTION/SETTING TYPE	OPTION/SETTING DETAILS
Time	12-hour clock and 24-hour clock
Maximum Basal Rate	0.0 units/hour, 0.1 - 15 units/hour
Insulin Delivery Profiles (Basal and Bolus)	Up to 6
Basal Rate Segments	16 per delivery profile
Basal Rate Increments	0.001 at programmed rates equal to or greater than 0.1 units/hour
Temp Basal Rate	15 minutes to 72 hours with 1 minute increments. Range: 0%-250%. Not available when Control-IQ is enabled
Bolus Setup	Can deliver based on carb input (grams) or insulin input (units). (The range for carbs is 1-999 grams; the range for insulin is 0.05-25 units)
Insulin to Carb (IC) Ratio	16 time segments per 24-hour period; Ratio: 1 unit of insulin per x grams of carbs; 1:1 to 1:300 (resolution is 1 above 10g and 0.1 below 10g)
BG Correction Target Value	6.1 mmol/L
Insulin Correction Factor (ICF)	16 time segments; Ratio: 1 unit of insulin reduces glucose x mmol/L; 1:0.1 to 1:33.3 (0.1 mmol/L increments)
Duration of Insulin Action	2-8 hours (preset to 5 hours when Control-IQ is on)
Bolus Increment	0.01 at volumes greater than 0.05 units
Quick Bolus Increment	When set to units: 0.5, 1, 2, 5 units (default is 0.5 units); or when set to grams/carbs: 2, 5, 10, 15 grams (default is 2 g)
Maximum Extended Bolus Time	15 minutes - 8 hours in 1min increments (maximum of 2 hours when Control-IQ enabled)
Maximum Bolus Size	25 units with up to 25 units for bolus remainder
Low Reservoir Volume Indicator	Status indicator (visible on home screen); Low Insulin Alert (user adjustable: 10-40 units)
Auto-Off Alarm	On or Off (Default depends on your software version- version 7.6 is defaulted to ON, from version 7.7 onwards, default is OFF); user adjustable (5-24 hours; default is 12 hours, which you can change when option is set to On)

t:slim X2™
System Options and Settings

The following table lists t:slim X2 specifications and their related details.

OPTION/SETTING TYPE	OPTION/SETTING DETAILS
History Storage	Up to 90 days of data (11,000 events)
Language	English
Screen Lock	Protects from unintentional taps on the touch screen
Security PIN	Protects from unintentional access and blocks access to quick bolus when enabled (default is Off)
Site Reminder	Prompts user to change infusion set. Can be set for 1-3 days at a time selected by user (default is Off)

OPTION/SETTING TYPE	OPTION/SETTING DETAILS
Missed Meal Bolus Reminder	Prompts user if a bolus has not occurred during the period of time the reminder is set. 4 reminders available (default is Off)
After Bolus Reminder	Prompts user to test BG at a selected time period after a Bolus has been delivered. Increment options of 1 hour to 3 hours duration in 1 min increments (default is Off)
High BG Reminder	Prompts user to retest BG after a High BG has been entered. User selects High BG value and time for reminder (default is Off)
Low BG Reminder	Prompts user to retest BG after a Low BG has been entered. User selects Low BG value and time for reminder (default is Off)

Additional technical specifications can be found in the t:slim X2 User Guide.
The above details are current as of **February 2024.**

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TANDEM Diabetes Care

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