

Quick Guide



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This quick guide provides guidelines for the basic functionalities of the Avoset infusion pump. If you are not a clinician please refer to the Important usage information guide, for additional information and the safe use of the product. If you are a clinician, refer to the user manual and the terms of this document use www.eitanmedical.com/term_training_materials.





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Setup

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Infusion Setup

- 1. Insert batteries (see page 7)
- 2. Turn on the pump (see page 8)
- 3. Clamp the set (see page 9)
- 4. Spike the medication bag (see page 9)
- 5. Remove the AFFV release clip (see page 10)
- 6. Attach cassette to the pump (see page 10)
- 7. Open all clamps (see page 12)
- 8. Prime remove air (see page 12)
- 9. Connect set to patient (see page 12)





Warning

Do not use the pump, administration set, or medication reservoir if they appear damaged in any way. If in doubt, contact your service provider or Eitan Medical.



Insert Batteries

Always turn off the pump before inserting or replacing batteries.

Warning

- Change batteries before each treatment.
- Use 3 AA alkaline or rechargeable batteries
- Have extra 3 fresh batteries available during treatment.
- Check the list of supported batteries at eitanmedical.com, as this list may be updated.







1. Press down the battery cover latch to open it 2. Insert 3 AA (1.5V) batteries according the diagram in the battery compartment. Slide the negative (-) end first, compress the spring and snap the positive (+) end into place

3. Close the battery cover



Turn On the Pump





2. System self check interim

screen is displayed

Caution

Do not use the pump if during the automatic system check any of the following occur:

- The screen does not light up, or 1.
- 2. The pump screen is damaged (black or wight areas cover the screen)
- 3. The pump does not beep, or
- 4. The LED indicators do not light up



3. Pump is ready



on/off to turn on the

In case the pump asks you whether to resume or start new bag of the infusion:

To resume an infusion with the remaining volume in the bag, press the RESUME multi-function button (see page 19).

OR;

To start a new infusion with a new bag, press the NEW BAG multi-function button (see page 19)



In case the pump prompts you the last infusion was edited:

One or more parameters was edited during the last infusion. Press REV IEW and confirm all parameters until you get to the home screen (see step 3 above).



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1. Press

pump









1. Close the clamp on the set

2. Remove the protective cover from set's spike tip

3. Insert spike tip into spike port of the medication bag

4. Hang the medication bag on a designated hanger, for example: an IV pole



Attach Administration Set



1. Remove the white clip from the set. In case of reinserting the set, skip this step 2. position the cassette at the bottom of the pump with the infusion bag on the right side Push the cassette into the pump.
You should hear two clicks indicating full engagement.
Verify the set is lodged in place

4. If Prime Reminder feature is on, the pump asks if you primed the set. Press the ND multi-function button to indicate you have not primed yet. To prime, see page 12



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Prime (remove air)

Following cassette insertion to the pump, prime the administration set to fill it with liquid and remove all air.



1. Press the ND multi-function button. *This question appears only if Prime Reminder feature is on



2. Open the clamp (moves freely)



3. Press PRIME to start priming

	avc	oset	
+		0	ON/OFF
	ENTER P	ASSWORI	•••
	**[]		PRIME
	CLĘAR	ŪĶ	Л BOLUS
ALARM	O		RUN
		5	

4. Password entry may be required. *To learn about password, see page 23



5. Once the patient is disconnected from administration set, press the PRIME multi-function button to start priming



6. Priming process indication (will end automatically unless you press the STOP multi-function button)



7. Press the DK multi-function button

	avoset	
+	VERIFY AIR IS OUT OF LINE	ON/OFF PRIME
START III PAUSE	PRĮME NO AIR	BOLUS
ALARM	0 0	RUN 🕨

8. Verify there is no air in the set and liquid reaches the end of the set and Press ND AIR. Otherwise, press PRIME



9. Once the patient is connected, press the DK multi-function button



10. Following successful priming, connect the administration set to the patient. The infusion is ready



Prime (remove air)



Warning

- Do not prime with the administration set connected to the patient.
- Do not start without verifying that all clamps are opened and that there is no occlusion.
- Do not allow air into the administration set during priming.
- Do not use the administration set before verifying that all air bubbles have been expelled.



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Infusion Basic Functions • 0

Start a New Preprogrammed Infusion





Warning

- Before starting an infusion, always verify that the medication reservoir contains the correct drug.
- When using an administration set with a filter, place the filter below (lower than) the patient's IV line access point.



Pause Infusion

Pressing **PAUSE** while the pump is running will pause the infusion. The pump will alert if it has been paused and untouched for 30 seconds.



2. The pump is paused, Paused indication is on

MUTE - Silences the alarm **JISMISS - Dismisses the alarm**









Resume Infusion or Start New Bag

If the pump was turned off or the cassette was removed and reattached to the pump during an infusion, you will have two options (i) Resume the incomplete infusion or (ii) Start new bag to repeat the same infusion with the original bag volume.





End of Infusion





Repeat Last Infusion



1. The pump alerts the infusion is finished. Press the II5MI55 multi-function button 2. Press EHANGE multifunction button or remove the set and attach a new set and a new bag 3. Change the medication bag and press YE5 multifunction button 4. Pump is ready to start new infusion

In case the infusion ends with KVO; quit the KVO before repeating the infusion, for quit KVO instructions see page 22



Quit Post Infusion KVO





Unlock with a Password

Specific pump features may be password-protected in order to prevent unauthorized user modification.



If the correct password is entered, the pump will unlock. Otherwise, an INCORRECT PRSSWORD message is displayed

1. The pump prompts you to enter password. The first digit is blinking.

Use the + / - keys to set the first digit

2. Press the NEXT multi-function button once the required digit is reached 3. The second digit is blinking.

Use the + / - keys to set the second digit and press the NEXT multi-function button 4. The third digit is blinking. Use the +/- keys to set the third digit and press the DK multi-function button



Remove Administration Set

Before removing the administration set close all the clamps and disconnect the patient from it.







1. Push down the release latch on the pump's side

2. The cassette is released from the pump

3. Remove the cassette



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Alarms Troubleshooting

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ALARM TEXT	CAUSE	TROUBLESHOOTING	ALARM PRIORITY
INFUSION HANDLING			
AIR IN LINE PRIME SET	Single or accumulated air bubbles detected in the set	Disconnect set from patient and prime the set (see page 12)	High-priority Alarm
CASSETTE MISPLACED	The set cassette is missing or incorrectly inserted into the pump	Remove and reinsert the set's cassette	High-priority Alarm
DOWNSTREAM OCCLUSION	The tube connecting the pump to the patient is occluded	Straighten the tube, check for kinks, verify the set is positioned correctly and all clamps are open (see page 32)	High-priority Alarm
UPSTREAM OCCLUSION	The tube connecting the infusion bag to the pump is occluded	Straighten the tube, check for kinks, verify the set is positioned correctly and all clamps are open	High-priority Alarm
CHECK EMPTY SET/RESERVOIR	2mL of air bubble detected in the set	If the bag is not empty, disconnect set from patient, prime the set and resume the infusion (see page 19). If the bag is empty, replace it and resume the infusion	High-priority Alarm
REMOVE AND REINSERT SET	Pump was not able to identify the administration set	Remove and reinsert the set's cassette	High-priority Alarm
UNPRIMED SET	The set is not primed	Prime the set (see page 12)	Low-priority Alarm
REPLACE SET	Set's cassette failed internal pump testing	Remove the connected administration set and connect a new set	Low-priority Alarm



ALARM TEXT	CAUSE	TROUBLESHOOTING	ALARM PRIORITY
INFUSION PROGRESS			
INFUSION COMPLETE	The VTBI has been delivered	Replace the bag or turn off the pump (see page 20)	High-priority Alarm
CHANGE BAG NOW	The VTBI has been delivered	Replace bag	High-priority Alarm
ACTION INCOMPLETE	The infusion has not started yet, or an action issued is incomplete, and no key was pressed for a predefined time duration	Start the infusion or address the incomplete action	Low-priority Alarm
PUMP IS PAUSEI	The infusion has already started and the pump was paused for 30 seconds	Press the Start/Pause button if the infusion should be resumed (see page 30)	Low-priority Alarm
TIME TO CHANGE BAG	Infusion bag is almost empty	Replace bag	Low-priority Alarm
BATTERY			
BATTERY DEPLETED	Battery power is too low to operate the pump	Replace batteries (see page 34)	High-priority Alarm
(Screen turns off with a blinking Red light and a beep)	Batteries were removed or the pump suddenly lost power during operation	Replace batteries (see page 35). Verify batteries are installed correctly	High-priority Alarm
LOW BATTERY	The batteries are low	Replace batteries (see page 33)	Low-priority Alarm



ALARM TEXT	CAUSE	TROUBLESHOOTING	ALARM PRIORITY
PUMP MALFUNCTIONS			
ERROR I REPLACE PUMP	A critical internal error	Do not use pump. Patients: contact your service provider, pump should be replaced Non patients: turn off pump and send it for service	High-priority Error
ERROR 2 REPLACE PUMP	A non-critical internal error	Do not use pump. Patients: contact your service provider, pump should be replaced Non patients: send a new infusion program to the pump	High-priority Error
ERROR 3 REPLACE PUMP	An internal clock error	Do not use pump. Contact your service provider	High-priority Error
ERROR Y REPLACE PUMP	Pump software update failure	Do not use pump. Patients: contact your service provider, pump should be replaced At service: update pump software	High-priority Error
RESTART PUMP	An internal error preventing pump operation	Restart pump. If the alarm occurs for the second time, replace the pump and contact your service provider	High-priority Alarm
HIGH TEMPERATURE	Pump overheating	Turn off pump and let it cool down, if the temperature is still too high when the pump is turned on, the alarm will occur again	High-priority Alarm
RECOVERED FROM ERROR	Pump restarted after an internal error	The interrupted infusion cannot be resumed. VTBI was reset to the initially programmed value. If you start the infusion, it will not resume from where it stopped before interrupted	High-priority Alarm



ALARM TEXT	CAUSE	TROUBLESHOOTING	ALARM PRIORITY
PUMP MALFUNCTIONS			
KEY STUCK	A key is stuck or pressed for too long	Release the pressed key	Low-priority Alarm
AUDIO WARNING I	The speaker and the backup audio system are malfunctioning during infusion. The alarm is not accompanied by audio	Continue infusion while taking into consideration that there is no audio. Contact your service provider	Low-priority Alarm
AUDIO WARNING 2	The speaker or the buzzer is malfunctioning during infusion and the pump uses a backup audio system	Continue infusion while taking into consideration that the pump's sound might be different from usual. Contact your service provider	Low-priority Alarm

Pump is Paused







2. The infusion is running



Air In Line

The pump detects an air bubble. The administration set needs to be primed



Downstream Occlusion

Reasons for an Occlusion alarm:







1. Clamps are closed

2. Set is kinked

3. Administration set cassette is pressed

-300 "

avoset PRESS START MEDICATION



1. Press the MUTE multi-function button

2. Verify all reasons for occlusion were resolved (open closed clamps, straighten kinks or verify cassette is not pressed)



4. The infusion is running



Low Battery

The batteries are about to deplet in 30 minutes for the current running infusion.





Battery Depleted

The batteries are about to deplet in 3 minutes.



Battery Extracted

A sudden power depletion or battery disconnection while the pump is on.

3. Remove each battery starting with

the positive (+) ends



4. Insert 3 AA (1.5V) batteries according the diagram in the battery compartment. Slide the negative (-) end first, compress the spring and snap the positive (+) end into place 5. Close the battery cover. To resume infusion, turn the pump on and select RESUME multi-function button (see page 19).



2. Press down the

open it

battery cover latch to

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