



Yellow Warning triangle
PMS 129C



Cool Gray 7 U



Text - PMS 294U

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QUICK REFERENCE GUIDE

WARNINGS:



- Proper operation of the BD Alaris™ System requires that you are familiar with related features, setup, programming, IV sets, and accessories. Read all instructions, including those for all attached module(s) before using the BD Alaris™ System.
- This guide is not intended to be comprehensive instructions for the set-up and operation of the BD Alaris™ System. For complete instructions along with Warnings and Cautions, refer to *BD Alaris™ System User Manual (v12)*.

Programming an Infusion using BD Alaris™ Guardrails™ Suite MX Protection

The programming user interface is identical for the BD Alaris™ Pump Module and the Alaris™ Syringe Module.

Set Priming, Loading and Removal

Manual Priming

WARNING:



- Ensure that patient is not connected when priming.
 - Ensure that air is expelled from line prior to beginning infusion when priming (unexpelled air in line could have serious consequences.)
1. Ensure set is not connected to patient and that device is level with patient's heart.
 2. If used, hold pressure sensing disc between two fingers and invert disc so patient side is up.

3. Slowly prime set while gently massaging disc to ensure disc does not become over or under filled and all air is expelled.
4. When priming is complete, clamp set.
5. Load syringe into device and install pressure sensing disc (for proper placement information, refer to the *BD Alaris™ System User Manual v12*.)
6. Program infusion.
7. Release clamp and press **START**.
8. Attach set to patient.

Note: In some situations it may be necessary to attach the infusion set to the patient's access before opening the clamp (for example, hazardous drugs or extremely small volume infusions).

Device Priming

1. Ensure set is not connected to patient and that device is level with patient's heart.
2. Load and select syringe type and size.



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3. Program infusion parameters but do not start infusion.
4. Press **OPTIONS**.
5. Select **Prime Set with Syringe**.
6. If used, hold pressure sensing disc between two fingers and invert disc so patient side is up.
7. Press and hold **PRIME** while gently massaging disc to ensure disc does not become over or under filled and all air is expelled.
8. Release **PRIME** when fluid flow is observed at end of set.
9. Install pressure sensing disc.
10. Press **EXIT**.
11. Press **START**.
12. Attach set to patient.

WARNING: 

Use the Prime Set with Syringe feature in the Channel Options menu, when starting an infusion or changing the syringe and tubing. Failure to do so can delay the infusion delivery startup time and lead to delivery inaccuracies.

Loading:

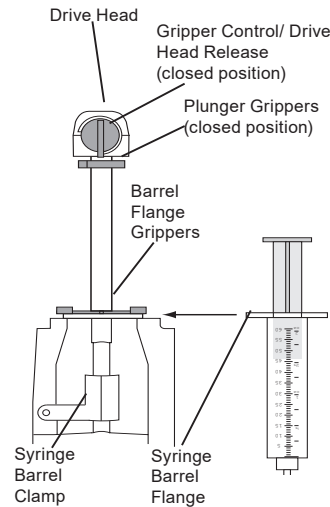
Infusions

1. Open syringe barrel clamp until it clears syringe chamber.
2. Twist gripper control clockwise and raise drive head to fully extended position.
3. Insert syringe barrel flange between barrel flange grippers.

4. Lock syringe in place by closing barrel clamp.
5. Twist gripper control clockwise, lower drive head, lock plunger in place with plunger grippers.
6. Insert pressure disc (if used) with membrane facing device. Apply upward pressure until disc snaps into disc housing.

WARNING: 

Ensure that the displayed syringe manufacturer and syringe size match the installed syringe. Mismatches can impact flow rate and accuracy.



WARNING: 

Before loading or unloading the syringe, always turn off fluid flow to the patient, using the tubing clamp or stopcock. Uncontrolled fluid flow can occur when the infusion set is not clamped or turned off, and can cause serious injury or death.

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Removal:

1. Close tubing clamp.
2. Open plunger grippers and syringe barrel clamp (silence safety alarm).
3. Remove syringe, apply downward pressure to remove disc from housing.

Near End of Infusion

When infusion is near completion, Near End of Infusion is enabled:

- Main display alternates between **NEAR END** and remaining volume to be infused (VTBI).
- Yellow standby status indicator flashes.
- An audio prompt sounds which requires being silenced once, and will not reoccur following initial silencing.

All Mode Enabled

If the **ALL** option is enabled for the VTBI, entire contents of the syringe will be delivered (unless your facility has established a keep vein open (KVO) volume).

Note: KVO is not available for intermittent infusions.

All Mode Disabled

If the **ALL** option is disabled for the VTBI, a syringe content volume will be displayed after the VTBI soft key is selected.

Selecting Pressure Limits

Pressure Sensing Disc Installed

1. Press **CHANNEL SELECT** key.
2. Press **OPTIONS** key.
3. Press **Pressure Limit** soft key.
4. To enter a new pressure limit value, press **Change Value** soft key and use numeric keys. If Auto Pressure feature is enabled and desired, press **Auto Pressure** soft key.

Note: If Auto Pressure is selected and current pressure is:

- 100 mmHg or less — system adds 30 mmHg to current pressure to create a new alarm limit.
- Greater than 100 mmHg — system adds 30% to current pressure to create a new alarm limit.

5. Press **CONFIRM** soft key.

Pressure Sensing Disc Not Installed

1. Press **CHANNEL SELECT** key.
2. Press **OPTIONS** key.
3. Press **Pressure Limit** soft key.
4. Press appropriate soft key: **Low**, **Med**, **High**.
5. Press **CONFIRM** soft key.

Alarms and Troubleshooting:

Alarms

Alarm	Meaning	Response
CHANNEL DISCONNECTED	Channel(s) disconnected while in operation or there is a communication problem.	To silence alarm and clear message from screen, press CONFIRM soft key. Reattach channel if desired, ensuring is securely “clicked” into place at Channel Release Latch. If alarm is still present, replace module with an operational instrument.
CHECK SYRINGE	The lever, plunger, and/or barrel clamp is not engaged properly.	Inspect the Syringe Module and adjust the appropriate component as needed. Reselect the syringe, restore or reprogram and start or restart the infusion.
OCCLUDED - PATIENT SIDE	Increased back pressure sensed while infusing. Infusion stops on affected module.	Clear occlusion. Press RESTART key, or press CHANNEL SELECT key and then START soft key.
PRESSURE DISC INSERTED	The Pressure Sensing Disc was installed during a running infusion. The infusion stops on affected module. The Pressure Sensing Disc should not be installed during and infusion. Installing the disc delivers a bolus.	Press the CONFIRM soft key and then the RESTART key.

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**Alarms and Troubleshooting:
Alarms (Continued)**

Alarm	Meaning	Response
INSTALL PRESSURE DISC	The Pressure Sensing Disc is removed. If an infusion is running, the infusion stops on affected module.	Reinstall the Pressure Sensing Disc and press the RESTART key.
SYRINGE EMPTY	The syringe VTBI has completed and the syringe contains less than 2% total disposable volume.	Set up new syringe infusion or press the CHANNEL OFF key.

Errors

Alarm	Meaning	Response
CHANNEL ERROR	A malfunction is detected on the module.	Clear the channel error pop-up by pressing the CONFIRM soft key. Power down the system, or continue use of functional units, or replace the affected channel with an operable module.
SYRINGE CALIBRATION REQUIRED	The module needs calibration before use. CALIBRATE scrolls in Message Display. Other modules currently infusing will continue to operate.	Replace the module with an operational device as soon as possible. Service by qualified personnel is required. Press the CONFIRM soft key to continue.
SYRINGE DRIVER HEAD ERROR	Noninfusing module, with plunger grippers open, senses excessive pressure being applied downward on Drive Head. OCCCLUSION scrolls in Message Display.	To silence alarm and continue normal operation, press CONFIRM soft key.