Cyclops Hardware Upgrade
Installation Procedure for
Kits PN 22110540 & 22290044

Purpose

If version 1, 2, or 3 of the Cyclops computer fails, install the Cyclops Hardware Upgrade Kit appropriate for your dispense system:

Dispense System	Cyclops Hardware Upgrade Kit
DS Series	22110540
MAX Series	22290044

Cyclops Computer Versions

Figure 1: Identifying Cyclops Computer Versions

~ continued ~

To further distinguish between computer versions 3 and 4, notice the color and position of the rear panel ports circled in Figure 2.

Cyclops Version	Differences in Rear Panel Ports
3	(not shown in Figure 2) port on "right" is white DVI port
4 - before 04/13/15	port on "right" is blue VGA port
4 - as of 04/13/15	port on "left" is blue VGA port port on "right" is green serial port

Figure 2: *Version 5 Cyclops Computer - after installation*

Before 04/13/15   As of 08/25/2017

Kit Contents

Table 1: Kits - Contents & Usage

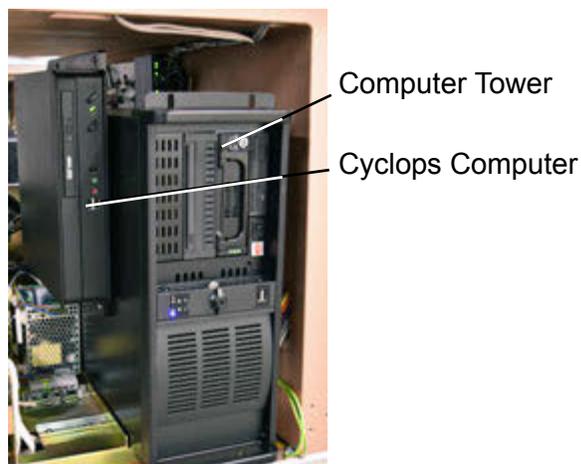| Description	Qty	DS Series Kit 2210540	MAX Series Kit 22290044	Parts Required to Upgrade Cyclops Computer:		
				Version 1 to Version 6	Version 2 or 3 to Version 6	Version 4 or 5 to Version 6
Cyclops Computer*	1	2025-0073-001*		X	X	X
Adapter Plate	1	22201367		X	---	---
RCA Cable	1	6000-0766	6000-0765	X	X	---
Cyclops Software Vision Package on CD/USB	1	No part number. License-specific content.		X	X	X
Screws	4	SAFSN0832062		X	X	---
Lock Nuts	4	NSLS0832		X	X	---
Installation Procedure	1	22290044M		X	X	X

Includes HDMI cable (PN 6000-0764)

Kit Installation Instructions

NOTE: The following procedure show the computer tower and Cyclops computer in context with a MAX Series dispense system. In a DS Series dispense system, the computer tower is located in the drawer and the Cyclops computer is mounted to the base plate near the rear access door.

Remove Existing Hardware

1. Power off the dispenser.

2. Locate the computer tower inside the front service panel of the dispense system. The Cyclops computer is mounted to the computer tower.
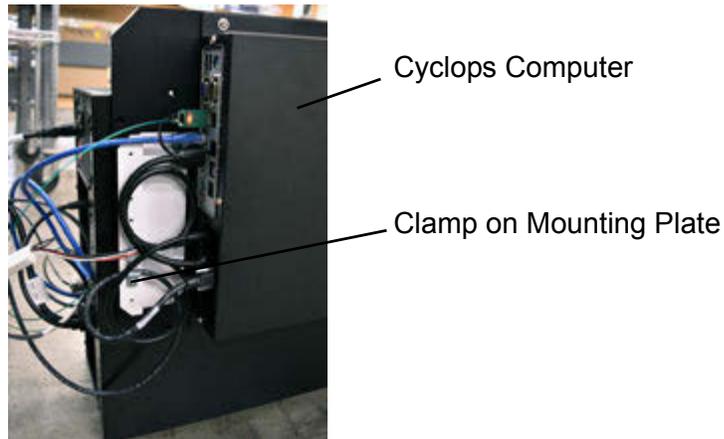

Computer Tower

Cyclops Computer

3. Remove the four (4) screws securing the computer tower to the system rack mount.

4. Carefully slide the computer tower out of the system and set it on the floor immediately in front of the system.
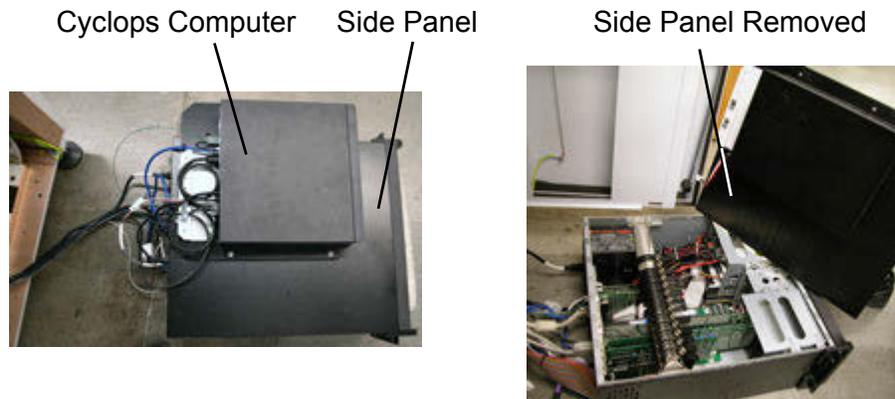
    CAUTION: Be careful not to pull or stretch the wiring connected to the computer tower and Cyclops computer.

5. Disconnect all cables from the Cyclops computer. As needed, loosen any mounting plate clamps to allow the captured cable to be disconnected.

Cyclops Computer

Clamp on Mounting Plate

6. Remove the computer side panel to which the Cyclops computer is mounted:
   a. Carefully set the computer tower on its side with the Cyclops computer on top.
   b. Remove the three (3) bolts securing the side panel to the computer tower.
   c. Slide the side panel back about 1/2 inch and then lift it away from the computer tower.

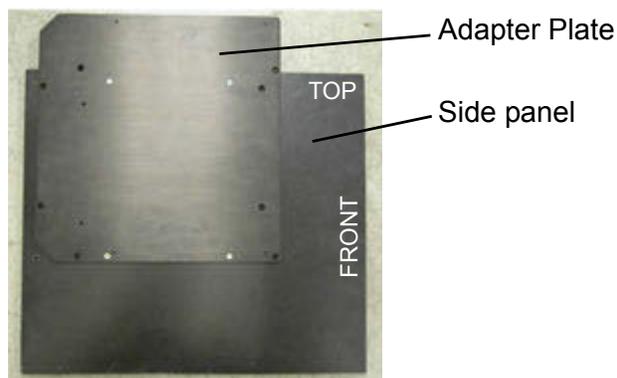Cyclops Computer   Side Panel   Side Panel Removed

7. Remove the mounting plate and Cyclops computer from the side panel. Set the mounting plate aside. Dispose of the old Cyclops computer in a responsible manner.
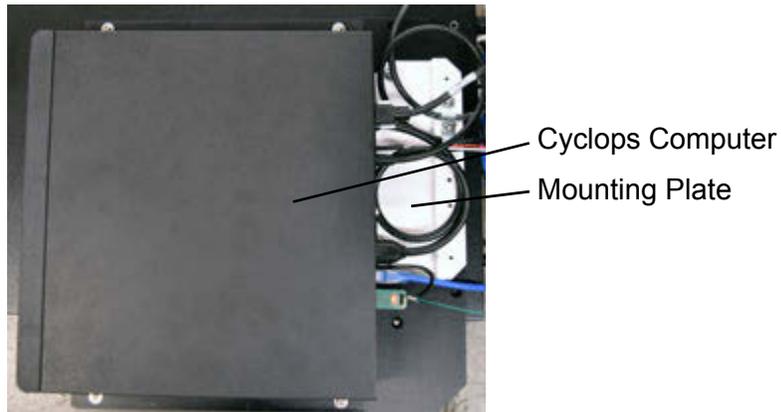
Install New Hardware

NOTE: When upgrading from Cyclops computer version 1 to version 4, perform steps 1 and 2; otherwise, skip to Step 3 to continue upgrading from version 2 or 3 to version 4.
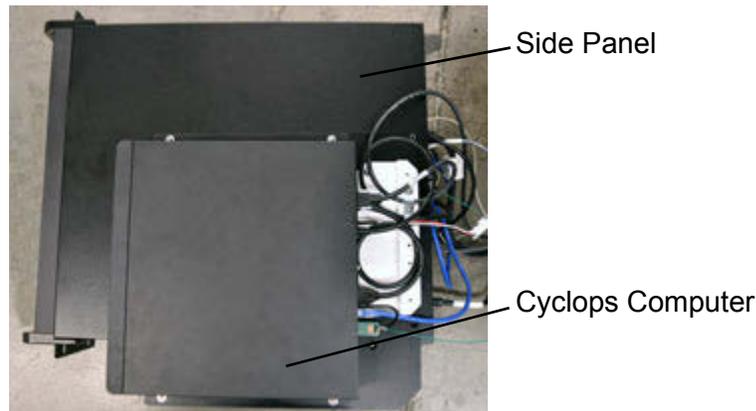
1. Orient the kit Adapter Plate to the side panel as shown below and then secure it in place with the kit screws and lock nuts.

Adapter Plate

Side panel

2. Secure the mounting plate to the adapter plate and then install the kit Cyclops computer to the adapter plate.

Cyclops Computer

Mounting Plate

3. Slide the "side panel/Cyclops computer" assembly onto the computer tower and secure with the 3 bolts previously removed from side panel.
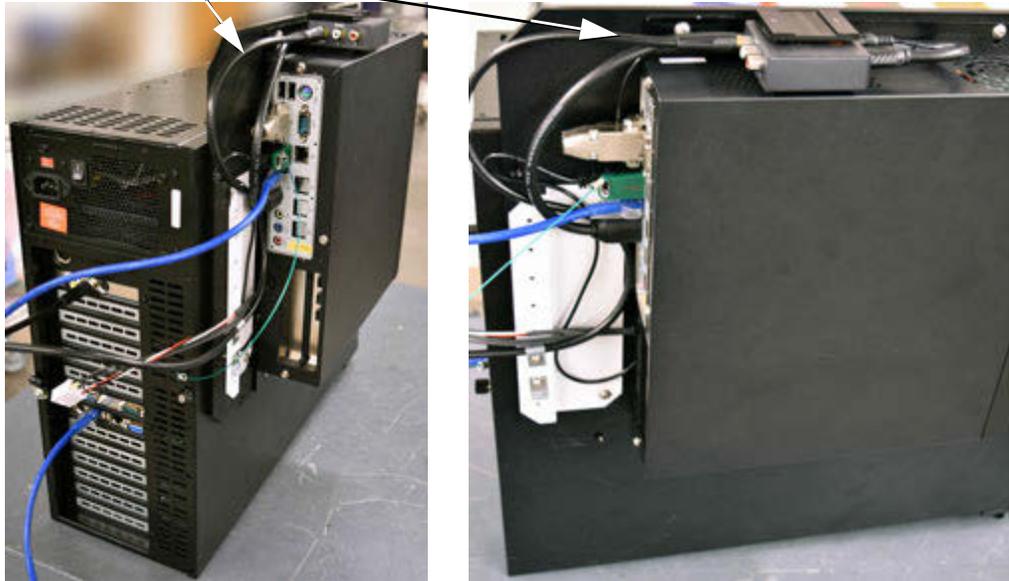

Side Panel

Cyclops Computer

4. Carefully return the computer tower to its upright position.

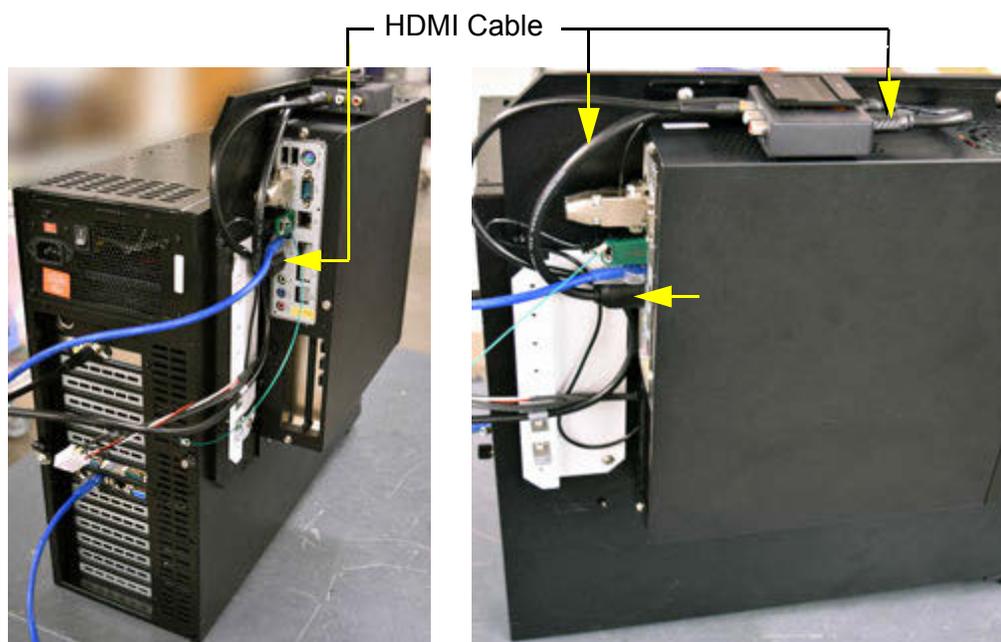5. As needed, move the cable clamps (on mounting plate) to clamp positions shown here:

6. Reconnect all cables to the Cyclops computer except:
   – RCA cable (PN 22298157) if upgrading *from* Cyclops computer *versions 1 or 2*.
   – S-Video cable (PN 6000-0665) if upgrading *from* Cyclops computer *version 3*.

7. RCA cable:
   a. Replace the RCA cable still connected to the computer tower with the kit RCA cable. Connect the other end of the kit RCA cable to the Cyclops computer using a cable clamp to maintain a positive lock.

RCA Cable

   b. Dispose of the old RCA cable in a responsible manner.

8. To maintain a positive lock for the camera cable, secure it using the lower cable clamp on the mounting plate.

9. Install both ends of kit HDMI cable.

HDMI Cable

10. Verify all connections in both the system computer and the Cyclops computer are seated properly.

Return System to Operations

1. Slide the computer tower back into the system.

   CAUTION: Take care not to bunch the cables or slide the computer tower over any cables or else damage to the cables may result.

2. Secure the computer tower to the rack mount with four (4) screws.

3. Power on the system.

4. Verify computer and vision operations by opening a Jog window. The video screen in the Jog window should display normally.

You have completed the Cyclops Hardware Upgrade procedure.