

DISPLAY DEVICES

PL2200/1700 **PlasmaLift**

Installation Manual

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PL2200/1700 PlasmaLift Installation Instructions

Physical Mounting

- 1.) The PlasmaLift should be mounted to the final structure (cabinet, road case, or wall) prior to installing the Mounting Adapter and Flat Panel Display. If you ordered the Option 20 (enclosure frame), skip to Step #2.

Utilize the 1/2" diameter mounting holes on the back and/or bottom of the outer frame. If necessary, the 3/8-inch holes can be used as well. DO NOT DRILL INTO THE SIDE OF THE PLASMALIFT FRAME.

When mounting the lift to your structure, be sure to keep the frame of the lift square and level. Shim mounting points if needed to compensate for a structure that is not square.

OPTION 20 Frame

- 2.) The PlasmaLift is already installed into the enclosure frame. Cabinetry can be mounted directly to this enclosure by drilling into the angle iron frame.

Electrical Connection

- 4.) Locate the (2) upper-limit switches and verify that the leads have not become disconnected during installation.

Plug in the remote's mox connector and AC power to the control box. The lift will not operate for 15 seconds as it performs self-diagnostics.

Operate the lift up (SHOW button) and down (HOME button) to insure that nothing is binding and the frame has not gotten out of alignment during the installation. A show position has been preset at the factory near the end of travel range.

- 5.) Test the upper-limit switches before installing the plasma display. Press 'HOME' button to lower the unit into the stored position. Press and hold 'STOP' button for 10 seconds – the unit is now in manual mode – the LED on control box will flash. Press the 'SHOW' button momentarily – unit will travel up. When the lift reaches the upper maximum travel distance it should stop.

In the event it does not stop – PRESS the "STOP" button and call DDI immediately.

Press "HOME" to lower the unit, then disconnect power to reset memory.

- 6.) Reconnect power and raise the lift up to install the plasma display. Stop at desired height and disconnect power to the control box before installing the flat-panel display.

Flat-Panel Display Installation

- 7.) The Flat Panel Display Mounting Adapter Plate is mounted to the lift. Remove the 1/4"-20 hardware. This mount is sized to match the mounting holes on your flat panel display. Use only the manufacturers mounting holes on the display.

Install the Mounting Adapter Plate to the rear of your Flat-Panel Display (use the enclosed mounting hardware). Be sure not to over-tighten the bolts on your display - it's very easy to strip out the threads in your display chassis.

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Lift the display up to the lift and align the mounting holes at the desired height on the lift. Install ¼-20 hardware and bolt the Mounting Adapter Plate to the lift on the back mounting plate of the lift. Tighten hardware.

- 8.) Once the display is mounted, plug in the power on the lift control box. **MAKE SURE ALL TOOLS, CABLES, AND BODY PARTS ARE CLEAR OF THE LIFT BEFORE PUSHING THE DOWN BUTTON!**

Signal and AC Power Connection

- 9.) Lower the lift to its closed position, and then raise the lift to its maximum upper position to install the power and signal cables.
- 10.) Connect the signal and power cables to the display. Be sure not to use cables that have a large bend radius.

DO NOT EXTEND THE LENGTH OF CABLES USING BARREL CONNECTORS OR EXTENSION CORDS - MAKE CUSTOM LENGTH CABLES SO THERE ARE NO EXTENSIONS PLACED IN THE CABLE TRAY.

Place the cables in the cable tray. Be sure to put the power cable in one side and your signal cables in the other. Use the enclosed cable ties to secure the cables at the predrilled holes on the cable tray. Be sure to secure each side of the cables at the elbow in the tray. A smooth cable bend prevents excessive movement of the cables.

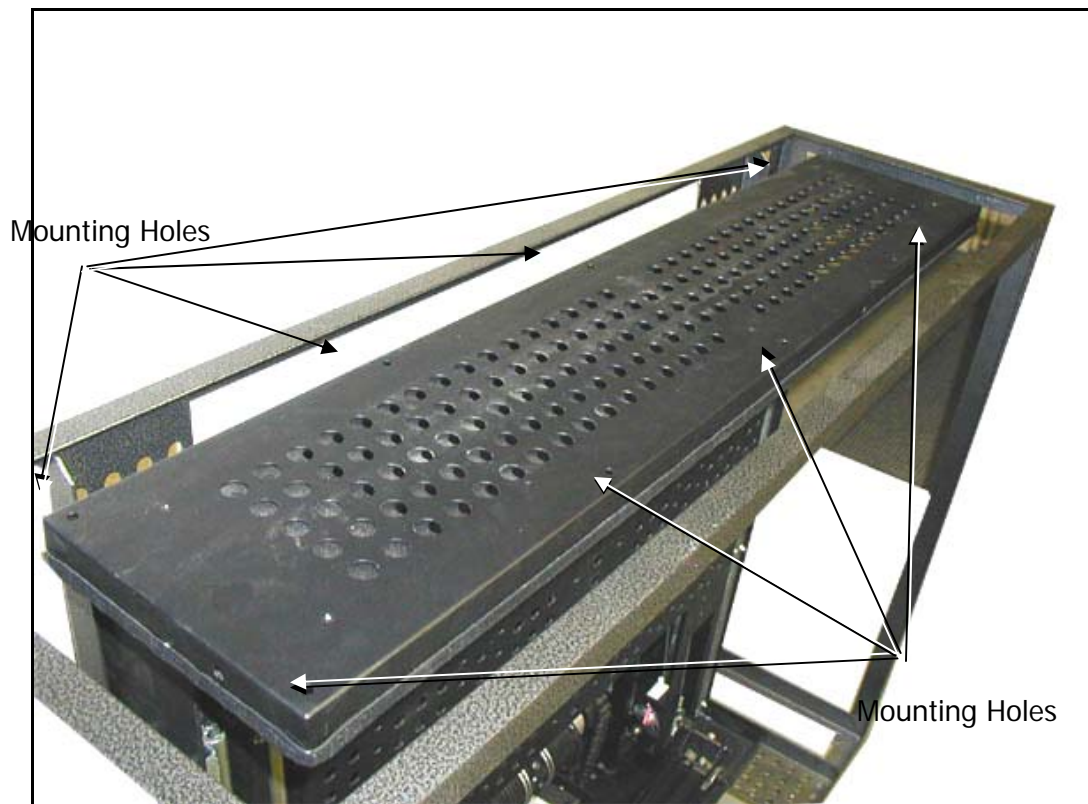
- 11.) Raise and lower the lift several times closely watching the cables to make sure they do not interfere with the lift operation.

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Top Closure Panel / Safety Interlock

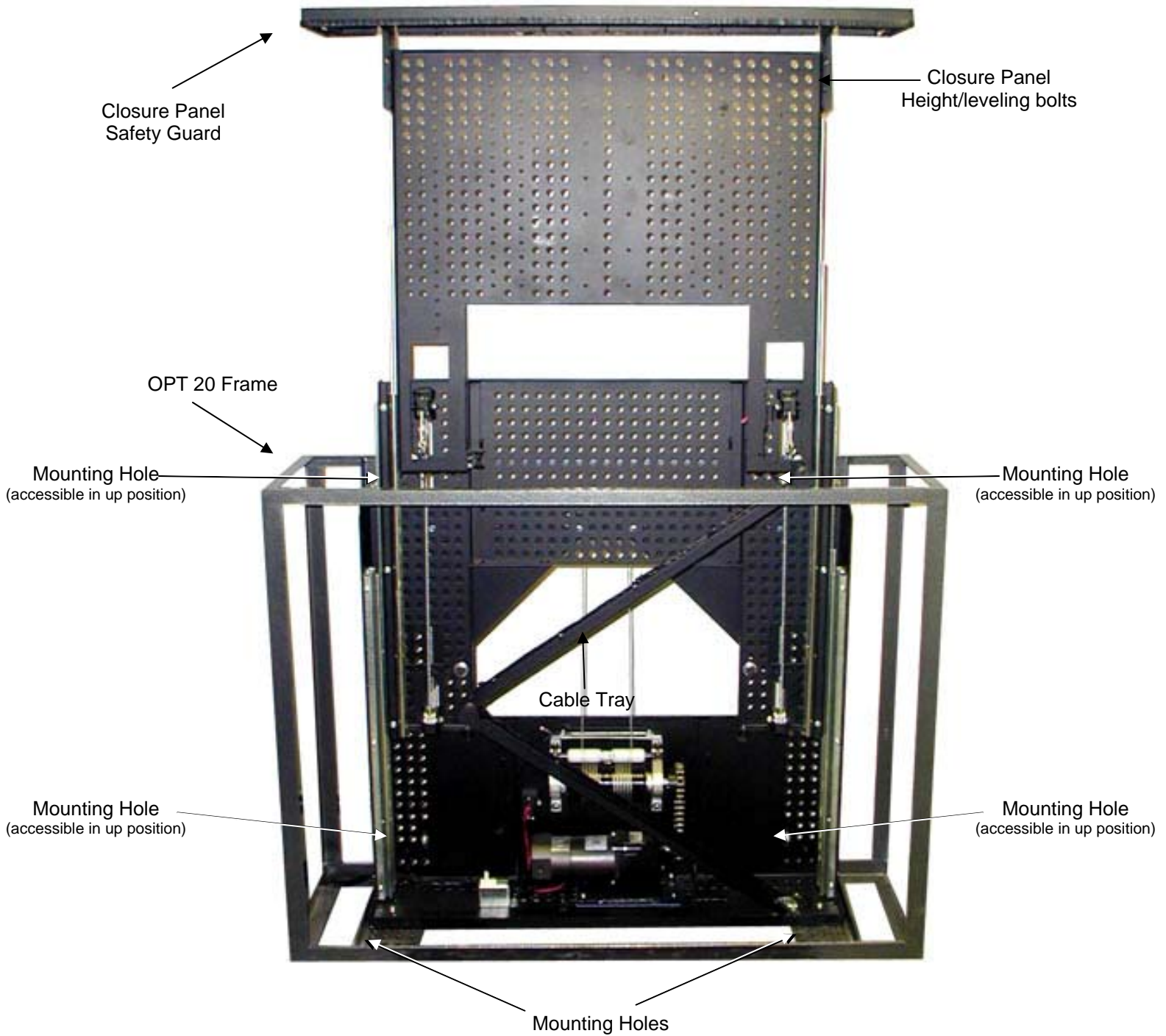
NOTE: ANY TOP CLOSURE YOU ADD MUST EVENLY DISTRIBUTE WEIGHT LOAD – FRONT-TO-BACK. THE SAFETY INTERLOCK MAY NOT FUNCTION PROPERLY WITH AN UNBALANCED LOAD.

- 1.) Operate the lift to an upper position, and then lower the lift. With your hand, obstruct the lowering of the lift by applying upward pressure on the bottom of the closure panel. This should cause the lift to stop momentarily, and then travel up one inch.
- 2.) Affix your cabinet top to the closure panel. Lower the lift, making sure the top does not interfere with your cabinetry. The panel can be adjusted up and down by loosening the side bolts in the adjustment slots.



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PL2200/1700 PlasmaLift



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PL2200/1700 PlasmaLift Programming Show Position

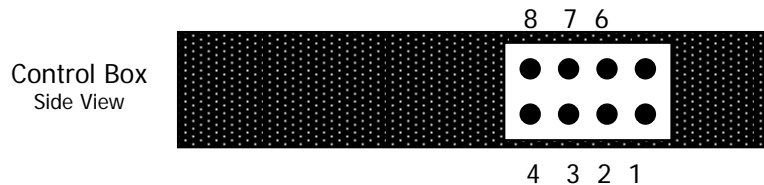
Programming can only be done with three-button control. If other methods of triggering the lift are normally used, first program the lift with the buttons and then configure lift for other trigger method.

- 1.) Press 'HOME' button. Unit lowers to the stored position.
- 2.) Press and hold 'STOP' button for 10 seconds – unit is now in manual mode.
- 3.) Press 'SHOW' button momentarily – unit will travel up. When unit reaches desired show position press 'STOP' button momentarily. **THIS MUST BE DONE IN ONE MOTION, DO NOT PRESS HOME, SHOW, OR STOP FOR FINE-TUNING OF POSITION.** You may send the unit to the 'HOME' position and start over.
- 4.) Press and hold 'STOP' button for 10 seconds.
- 5.) Press 'HOME' button momentarily – unit will travel to lower position.
- 6.) Lift is now set – press 'SHOW' button to verify – unit should travel up to show position. If you start this procedure and wish to quit after step 2, you must reset power to lift before normal operation (unplug unit or reset electrical breaker).

If the unit does not rise to the same show position, check that the lower limit switch activates when the unit is lowered. The lower limit switch is also the home position for determining the show position. The lower stop bolt may be misadjusted and the unit is stopping due to a cable off drum sensor.

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PL2200/1700 PlasmaLift Control Box Interface



Low-Voltage Control Lines:

There are three integrated methods of control and two optional methods. The standard controls are three momentary buttons (contacts), low-voltage control signal, or single-latching contact. The optional methods are remote IR or RF control; please contact DDI for information on those options.

Three-button control:

- 'Home' button (BLACK) Pin 6
- 'Show' button (RED) Pin 5
- 'Stop' button (GREEN) Pin 1
- Common (WHITE) for all buttons Pin 4

Low voltage (5 vdc < V < 24 vdc) control signal:

- Jumper Pin 6 to Pin 4, and jumper Pin 5 to Pin 4
- Trigger Voltage to Pin 2
- Trigger Voltage ground Pin 4.
- (applied voltage sends lift up, no voltage sends lift down)

Single latching contact:

- Jumper from Pin 6 to Pin 4, and jumper Pin 5 to Pin 4
- Contacts between Pin 3 and Pin 2
- (contact closed sends lift up, contact open sends lift down)

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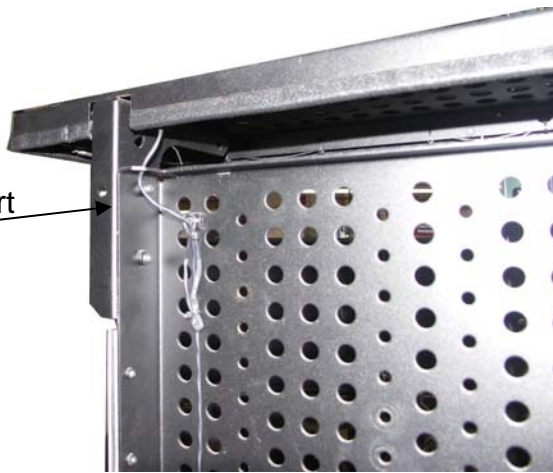
PL2200/1700 PlasmaLift Top Closure Panel Removal

All PL2200/1700 PlasmaLifts ship with a Top Closure Panel with an integrated pressure-sensitive switch to prevent harm to users. Depending upon the cabinet design (i.e., piano hinge), this panel may be removed. The following describes the removal and electrical modifications that are necessary to over ride the safety interlock.

1. Cut the safety interlock wires and short together. We recommend soldering the wires together to prevent any future difficulties.
2. Remove (4) ¼-20 bolts holding the cover to the upper frame. Remove cover.

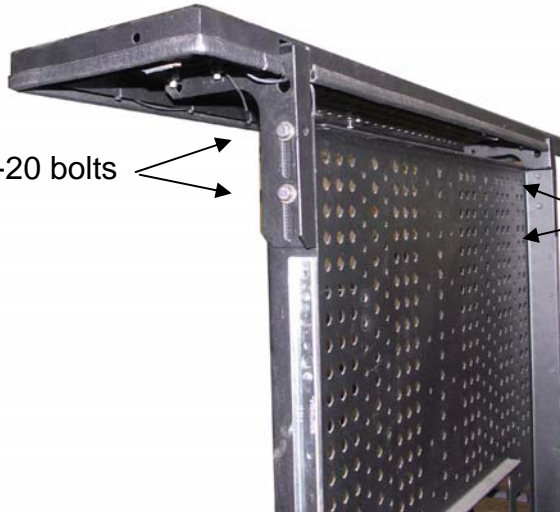
1.

Cut wires and short together



2.

Remove ¼-20 bolts



Remove ¼-20 bolts