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February 2007
PL3060 PlasmaLift
Installation Instructions

Thanks for purchasing a Display Devices lift product. We’re sure your customer will use this lift for years to come. Our products are designed to be maintenance free saving you future service time. If you experience any difficulties, please contact us at 303-412-0399. Thank you for your support.

Ensure the ceiling structure is capable of holding at least four times the combined weight of the lift (300lbs) and Plasma Display (140lbs). This is a minimum requirement. Follow any local or state codes that apply to your specific area.

The Plasma Display should NOT have any tilt introduced on the unit. PDP manufacturers do not approve of using a lifting device with the PDP tilted.

Tools required: 7/16” socket or open end wrench – to attach mount
¾” open end wrench – for ½” mounting hardware
Phillips-head screwdriver – for display mount
Side cutters – to trim cable ties

PHYSICAL INSTALLATION

1. Determine and install structural mounting points above the ceiling. For most installations P3000 Unistrut® with all-thread works very well.
2. Raise lift with a Genie®-type material lift into position. The bottom of the lower metal frame/door should be level with the bottom of the finished ceiling.
3. Attach 1/2” (M12) mounting hardware (bolt/thread, 2-washers, lock washer and nuts) to 6 of the 12 mounting holes on the top of the frame front & rear.
4. Level the lift frame, front-to-back and side-to-side and tighten hardware. Be sure unit is level for proper mechanical operation.
5. Attach handheld remote to control box. See Control Interface section below.
6. Attach the power cord to the unit – LED on control box will flash upon power to the unit. There is no power on/off switch on this lift.
7. Press show to lower the unit.
8. Remove mount from the lift by removing the ¼-20 hardware.
9. Attach the mount to the plasma display with the enclosed hardware.
10. Raise the PDP to the lower panel and attach with ¼-20 bolts/washers to the lowering panel. The interface mount should be level with the lowering panel. Be sure the display is high enough on the lift so the closure door will close.
11. Press home to raise the PDP into the lift. Be cautious that your display does not contact the lift when rising. Be sure the closure door does not contact the PDP. If it does, then raise up the PDP to the next set of mounting holes. Lower the plasma display.
12. If possible, it is best to add power and signal cables to the plasma display while the lift is in the closed position. Do not use thick cables that have a large bend radius. Begin your power/signal cable runs from the display so no splices will have to be made inside the lift. Feed cables into the scissors beginning at the PDP and work up. Affix the cable with the enclosed cable ties at each cable tie down along the scissors going over the cables. Leave a loop when at the end of the scissor.

NOTE: Your cables alternate front-to-back on the scissor assembly.
13. Operate the lift up and down a few times to be sure that no cables binding anywhere on the lift.
14. Verify that when the door is shut it is level with the unit frame, if not adjust the all-thread arms on the left and right sides as needed.
**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 the other trigger method.

1.) Press ‘HOME’ button. Unit rises to the home or 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 down. 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.**
4.) Press and hold ‘STOP’ button for 10 seconds.
5.) Press ‘HOME’ button momentarily – unit will travel to home position.
6.) Lift is now set – press ‘SHOW’ button to verify – unit should travel down 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.

**Control Interface**

**Low Voltage Control Lines:**

There are three integrated methods of control and two optional methods. The standard controls are three momentary buttons (contacts) or 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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