



Laser Leveling Control



80 W Easy St Unit # 5 Simi Valley Ca 93065 Ph- 805-583-0808

www.meilaser.com

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Power up the system

Push the **SELECT** key. You will see a 3 digit software code, followed by a 4 digit elevation. The **SELECT** key is used to cycle through the operating modes.

- Preset
- Survey
- Set Automast
- Activate Automast
- Power Off



Mast Switch

The mast is raised or lowered using the mast up down switch. The travel range varies depending on the length of the mast, but generally the range would be 4 feet.



Mast Type

Telescoping:

Tracking



New 417- 6 foot mast

Preset

Push the **SELECT** key until the light next to **preset** illuminates. Use the + key to enter a known elevation or use your own elevation. The + key adds elevation; the – key subtracts elevation numbers. The elevation changes when the mast is raised or lowered. To reset to “0” push the + and – buttons at the same time.



Survey

Push the **SELECT** key until **Survey** is lit. When the unit is in survey mode, the sensor tracks the laser beam and the mast moves accordingly. The panel displays the changing elevations



Set Automast

Push the **SELECT** key and the **Set Automast** LED is lit. You are now ready to enter a reference elevation change. Use the + or – key to input this change. Set any number example +00.10 or a tenth of a foot. We are now ready to **Activate Automast**



Activate Automast

Push the **SELECT** key until the **Activate Automast** LED is lit. Each time the + is pushed, the mast moves one tenth of a foot. Push + and we now have two tenths change. Pushing the – key brings the mast up a tenth; pushing the + key brings the mast down a tenth. This feature is a valuable asset when building a ditch bank, house pads, or leveling large acreage using two transmitters set at different elevations



Menus

To enter the menu section, push & hold the **SELECT** key and push **AUTOBLADE** key. The number on the left blinks and the number on the right, is solid Pushing the + key, changes the menu items. Pushing the **SELECT** key switches to the menu item value. The numbers on the right should now be blinking. Use the + and – keys to change the menu item value



Menu Settings

To test the near grade valve speed, enter menu section (Hold down the select button and push the auto blade button). Push up and down on the blade toggle. If the blade is too fast in either direction-push select until 1 or 2 flashes on left. Push select until #s on right flash and change the speed with plus or minus key. Exit the menu by pushing auto blade. Near Center speed should be about half normal up down (outside menu setting)

- 0 Sensitivity, refers to center channel filtering. Settings run from 00 to 20. Set by installer
- 1 Valve speed down, down speed near center settings run 00 to 25. Set by installer.
- 2 Valve speed up. Up speed near center 00 to 25. Set by installer
- 3 Mast speed – this is the up/down speed of the mast 00 to 10, with 10 being the fastest. Any number above 10 removes brake feature
- 4 Elevation units 01 inch, 02 feet, 03 meters, default 02 feet
- 5 Valve type 00 standard, 01 proportional; 10 & 11= Make the Autoblade blade key a toggle
- 6 Survey type 00 manual data entry
01 automatic
02 continuous
03 GPS/Laser no Code
04 GPS/Laser L Code
05 GPS/Laser M Code
06 Dual 304 Master
07 Dual 304 Slave
08 GPS only L Code
09 GPS only M Code
- 7 Max change for GPS input, gps only
- 8 Blade Speed Gain, gps only
- 9 Center width, gps only



To exit the Menu section and save the entries push AUTOBLADE

Once again, to enter menus, push and hold the **SELECT** key the push **AUTOBLADE**.

Grading

Set your blade on a grade hub, move the sensor to center and the green light on panel will light. Hit the **AUTOBLADE** key, the light above **AUTOBLADE** will illuminate, the hydraulics will take over blade control. Hit the **blade switch** or the **AUTOBLADE** key to exit auto control. (Menu 5 Value 10 or 11 makes **AUTOBLADE** a toggle)

Trouble Shooting

There are a number of variables while grading, such as speed, terrain, other lasers on site, all of which can affect the performance of the system. If the blade has a lot of vertical movement, the sensor will continually try to stay on grade. A rapid up could cause the blade to plunge. Another laser on the job could cause the sensor to track that laser. Laser reflecting off a mirrored surface could cause the laser receiver to track that signal. **The laser RPM should be set at MAX**

MENU REVISION HAVE BEEN MADE AND MAY NOT MATCH PREVIUOSLY MANUFACTURED PANELS

The 752 system simulator can be used to trouble shoot the panel, cables, and receiver

MODEL 752 SIMULATOR

TROUBLESHOOTING GUIDE

PROBLEM: Sensor does not appear to be receiving laser signal

Test: Turn on the system. Press the laser button switch on the simulator, and aim the blinking light at any one of the vertical detector strips inside the red Window on the 360 sensor. As the Simulator is moved up and down the detector strip, the display lights on the Control Panel should follow. Repeat this test on each of the four detector strips.

Passed: If the Control Panel lights flash using the 752 Laser Simulator, the Laser Transmitter is malfunctioning OR the sensor is not in the path of the beam.

Failed: If the Control Panel display doesn't light, disconnect the 360 Sensor and plug the 5 pin (M) connector on the Simulator into the sensor cable. The power light on the Simulator should light, and each of the three pushbuttons should light the corresponding lights on the Control Box.

Passed: If the Panel functions using the simulator, the 360 may be in need of repair.

Failed: If the Panel does not function, disconnect the cable at the base of the Mast and plug the 14 pin (M) connector on the Simulator into the mast cable. The three pushbuttons should light the corresponding lights on the Control Panel.

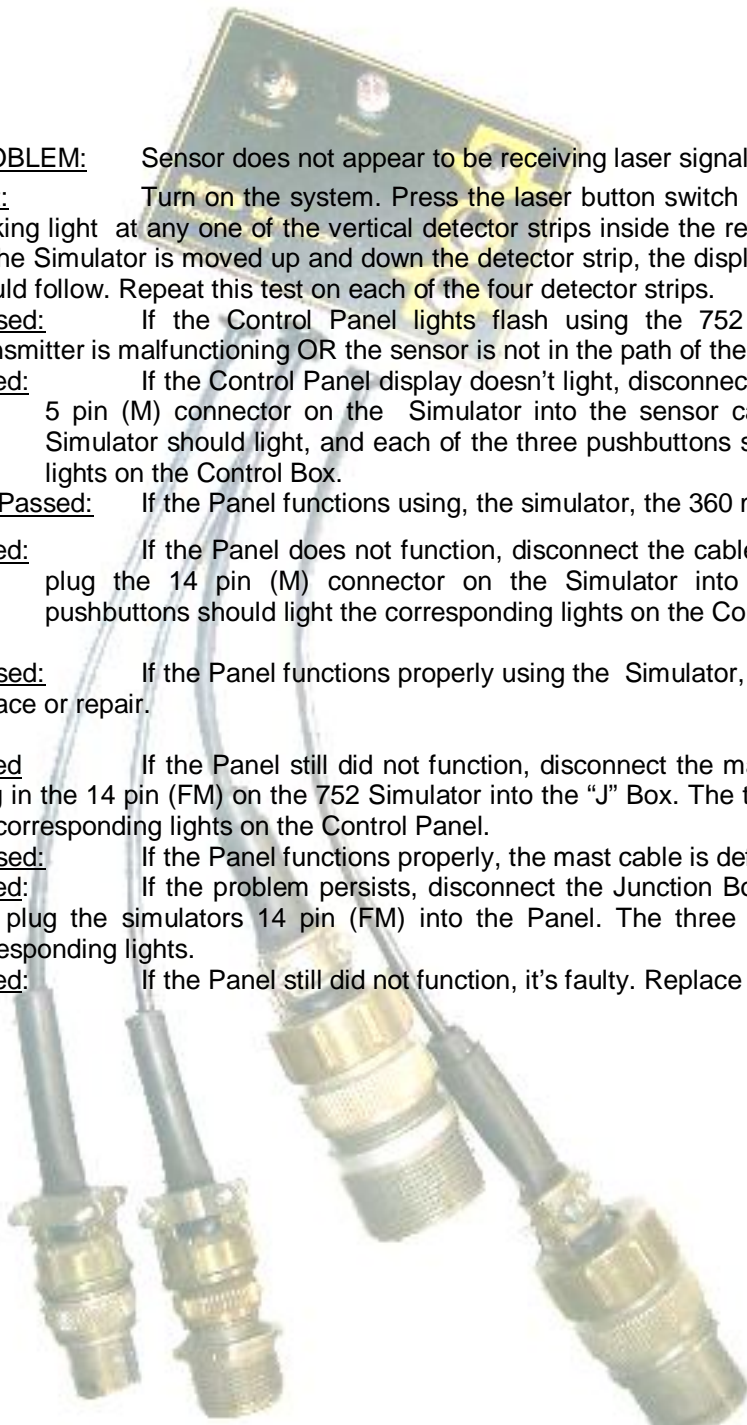
Passed: If the Panel functions properly using the Simulator, the mast is defective; replace or repair.

Failed If the Panel still did not function, disconnect the mast cable at the Junction box. Plug in the 14 pin (FM) on the 752 Simulator into the "J" Box. The three pushbuttons should light the corresponding lights on the Control Panel.

Passed: If the Panel functions properly, the mast cable is defective; replace or repair.

Failed: If the problem persists, disconnect the Junction Box Cable at the Control Panel and plug the simulators 14 pin (FM) into the Panel. The three pushbuttons should light the corresponding lights.

Failed: If the Panel still did not function, it's faulty. Replace or repair it.



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