



**MEI** *Matronic Engineering, Inc.*



**GPS Leveling Control**



## **308M-GPS**

**OPERATING MANUAL**  
**GPS Machine Control System**  
**With Proportional Valve Drivers**

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

[www.meilaser.com](http://www.meilaser.com)

# **-LASER-TECH-~ Model 308-M**

## OPERATING MANUAL

### **OVERVIEW \*\*\*\*\***

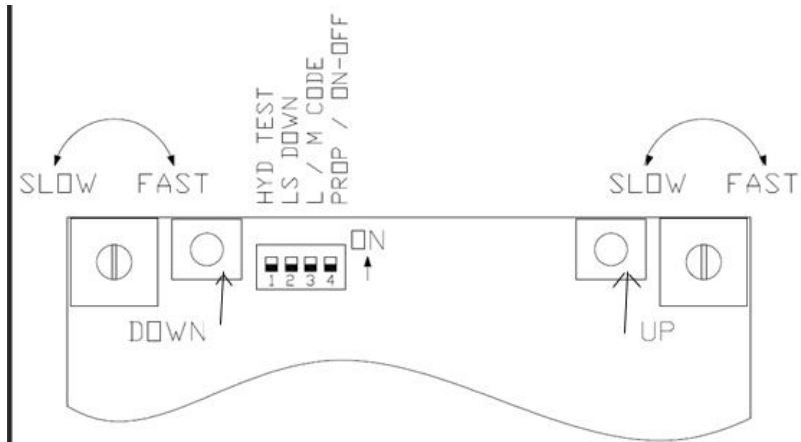
The 308-M GPS Machine Control System is a powerful addition to land leveling and earth moving machinery, yet is easy to use. Some of the unique features are listed below:

- AUTOMATED CONTROL OF “ON/OFF AND “PROPORTIONAL” VALVES.
- ADJUSTMENTS FOR BLADE UP AND DOWN SPEED
- PRESSURE COMPENSATED PUMP ACTIVATION OUTPUT.
- 12 OR 24 VOLT OPERATION (SEE NOTE)
- COMPACT SIZE FOR EASY MOUNTING.

### **FRONT PANEL SWITCHES \*\*\*\*\***

*BLADE UP / DOWN:* Buttons

FOR MANUAL BLADE ELEVATION CONTROL.



### ADJUSTABLE ITEMS \*\*\*\*\*

#### VALVE SPEED, DOWN

THE FIRST POTENTIOMETER SETS THE "NEAR CENTER" BLADE DOWN SPEED. THE OVERALL SPEED IS SET WITH HYDRAULIC FLOW CONTROLS.

#### VALVE SPEED, UP

THE SECOND POTENTIOMETER SETS THE "NEAR CENTER" BLADE UP SPEED. THE OVERALL SPEED IS SET WITH HYDRAULIC FLOW CONTROLS.

#### SWITCHES: (UP ACTIVATES THE FUNCTION)

#

1. Test Mode slow hydraulic speed only. Adjust w/pod
2. Load sense on up only/Load sense on normal
3. L code / M code
4. Proportional On - Off

*SOLENOID DRIVE OUTPUTS:*

ALL POWER OUTPUTS HAVE RESETTING FUSE LINKS. IF A SHORT CIRCUIT OCCURS IN ONE OF THE FUNCTIONS, ONLY THAT FUNCTION WOULD BE DISABLED. WHEN THE PROBLEM IS CORRECTED, THE 308-M PANEL WILL AUTOMATICALLY RESTORE POWER. OUTPUTS ARE NORMALLY LOW, DRIVEN TO 12 (OR 24) VDC ON ACTIVATION.

**OUTPUT CABLE CONNECTIONS \*\*\*\*\***

*POWER INPUT*

BLACK CHASSIS GROUND  
RED 12 OR 24 VDC INPUT (SEE NOTE)

*OUTPUT (4 PIN CONNECTOR )*

LOAD SENSE OUTPUT  
COMMON GROUND  
DOWN DRIVE  
UP DRIVE

**SPECIFICATIONS \*\*\*\*\***

<i>INPUT POWER:</i>	12 OR 24 VDC OPERATION.
<b>NOTE</b>	<b>NEGATIVE GROUND.</b>
<b>CURRENT</b>	<b>NOMINAL 10 AMP MINIMUM</b>
<i>REQUIREMENT.</i>	5 AMP MAX WITH MOST SOLENOIDS.
	<b>NOTE: 12VDC SOLENOID VALVE COILS ARE STANDARD. SPECIFY 24VDC IF REQUIRED.</b>
<i>OUTPUT POWER:</i>	3 AMP MAXIMUM PER VALVE SOLENOID
<i>TEMPERATURE:</i>	-20 TO 70 DEGREES C