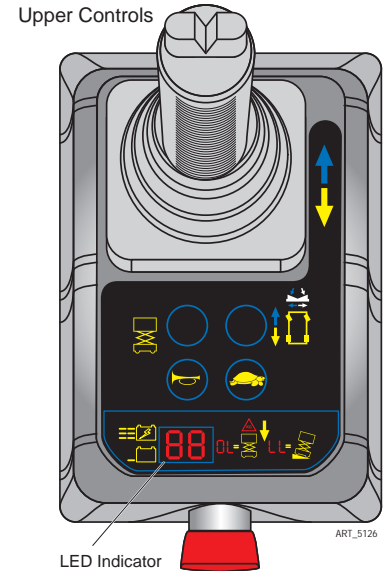


Fault Codes

Fault Codes, when present, appear on the LED Indicator at the Upper Controls station.



Fault	Description	Models	Solutions
01	System Initialization Fault	All Models	Check the ECU.
02	System Communication Fault	All Models	Check the platform control, wiring on platform connector, ECU, battery, and relay on ground control.
03	Invalid Option Setting	All Models	Reset the option code. See Service manual for instructions.
04	Calibration Fault	All Models	Needs to be Calibrated
08	Key Switch Error	All Models	Check Key switch outputs
10	MC Communication Fault	All Models	Check connections at motor controller
12	Chassis Up or Down Switch ON at power-up Fault	All Models	Check the wiring on toggle switch, and the toggle switch.
18	Pothole Guard Fault	All Models	Check the pothole board and switches. If stowed, check limit switch.
31	Pressure Sensor Fault	Micro19	Check option code. See Service manual for instructions.
32	Angle Sensor Fault	All Models	Check wiring to angle sensor for normal voltage range 1.9-3.8V, then check the option code.
35	Pressure Sensor 2 Fault	All Models	Check pressure sensor outputs. Replace Pressure Sensor.
36	Battery Drain Alarm	All Models	Charge Batteries.
42	Left turn switch ON at power-up	All Models	Check the left steer button, and the platform controller.
43	Right Turn Switch ON at power-up	All Models	Check the right steer button, and the platform controller.
46	Joystick Enable Switch ON at power-up	All Models	Wait several seconds when turning on the lift, then check the joystick dead-man switch.
47	Joystick not in neutral at power-up	All Models	Check the joystick, and the platform controller.
52	Drive Forward Coil Fault	All Models	Check the option code. See Service manual for instructions.

53	Drive Reverse Coil Fault	All Models	Check the option code. See Service manual for instructions.
54	Lift Up Coil Fault	All Models	Check the lift solenoid and wiring.
55	Lift Down Coil fault	All Models	Check the down solenoid and wiring, and the scissor harness for crushed or pinched wires.
56	Right Turn Coil Fault	All Models	Check the right steering solenoid and wiring.
57	Left Turn Coil Fault	All Models	Check the left steering solenoid and wiring.
68	Low Voltage Fault	All Models	Check battery voltage and charge batteries if necessary, check battery connections, connection from ECU to PCU, then the voltage to the ECU and PCU.
80	Over 80% Load Warning	All Models	Platform is getting close to limit of weight.
90	Platform Load is over 90%	All Models	Consider removing weight from platform.
99	Over 99% Load Warning	All Models	Platform has reached its weight capacity.
OL	Platform Overloaded	All Models	Remove the excess load immediately.
LL	Machine Tilted Beyond Safe Limits Fault	All Models	Check to see if machine is tilted, then check wiring to tilt sensor and the tilt sensor.
CH	NOT A FAULT CODE	All Models	Indicates that key switch is in base controls.
UP	Platform up limit position	All Models	Platform has reached maximum height
102	Restore Parameters to Default	All Models	See instructions for restoring Defaults
103	Battery is draining	All Models	Batteries are low, consider charging
104	Motor Controller Fault	All Models	See individual MC fault codes

Parameter Adjustment

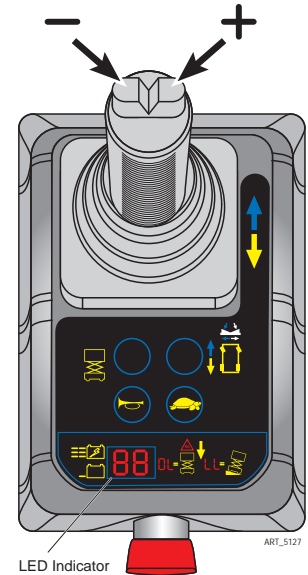


PARAMETERS SHOULD BE ADJUSTED ONLY IF THE FUNCTION IS OPERATING OUTSIDE OF MACHINE SPECIFICATIONS, OR IF WRITTEN APPROVAL IS OBTAINED FROM MEC PRIOR TO MAKING THE CHANGE.

The following adjustments are made at the Platform Controls station using the LED Indicator to display the current settings. Follow the instructions to reach the desired setting.

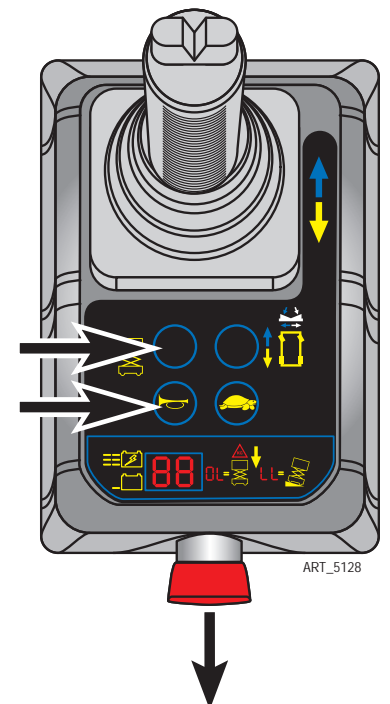
Change the setting by using the Steer Buttons on top of the control handle. The right button increases the setting. The left button decreases the setting.

Number represent a percentage. 99 means 99%. 9°9 (dot between the digits) means 100%.



Speed Adjustment State

1. Set the key switch at the Base Controls to PLATFORM. Twist the Base Emergency Stop Switch out to the ON position.
2. Push the Platform Controls Emergency Stop Button in to the OFF Position.
3. Press and hold the HORN and LIFT buttons, then twist the Platform Emergency Stop Switch to the ON position.



4. "PS" and the current Lift Speed setting will alternate on the LED Indicator.

Refer to the following pages for individual operating adjustments.

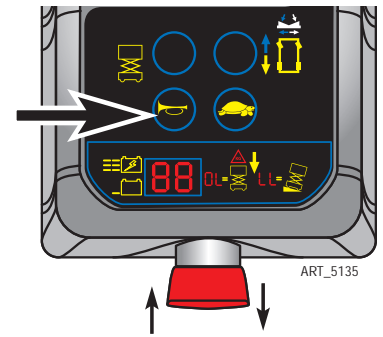


Saving New Values

New values must be saved immediately after adjustment.

To save new values, press and hold the Horn button for 3 seconds.

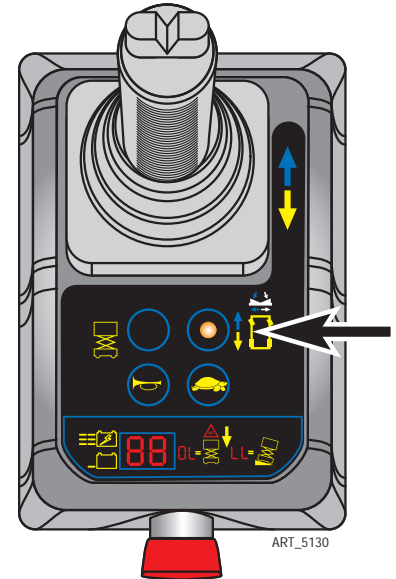
To operate the machine with new values, press the Emergency Stop button, then rotate it to return to the ON position.



High Drive Speed

This parameter controls high speed drive when the platform is in the stowed position.

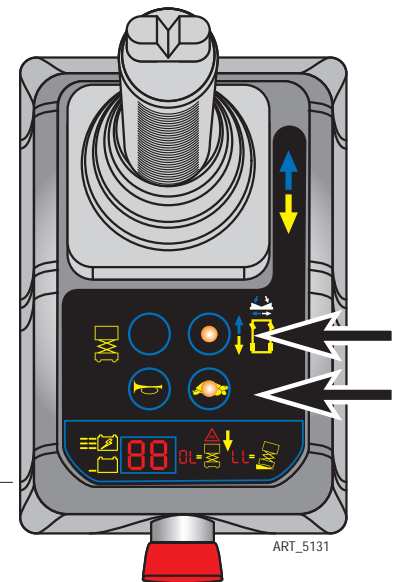
1. Press the Drive Mode Select button. The button will light up, indicating this mode is active, and the LED Indicator will show the present setting.
2. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
3. High Drive Speed may be changed from 00 to 9°9. Factory setting is 9°9.
4. Save the new setting (See top of page for “Saving New Values“).



Low Speed Drive

This parameter controls low speed drive when the platform is in the stowed position and Low Speed is selected (turtle icon).

1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, and the LED Indicator will show the present setting.
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Low Drive Speed can be set from 00 to 9°9, but must not be set higher than 50. Factory setting is 50.



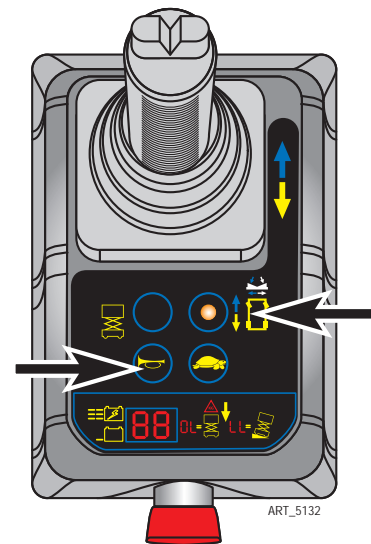
DO NOT ADJUST THE SETTING HIGHER THAN 50.

5. Save the new setting (See top of page for “Saving New Values“).

Elevated Drive Speed

This parameter controls drive speed when the platform is elevated.

1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, indicating this mode is active.
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Elevated Drive Speed can be set from 00 to 99, but must not be set higher than 50. Factory setting is 50.



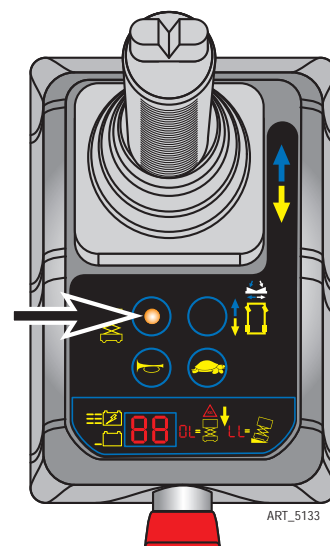
DO NOT ADJUST THE SETTING HIGHER THAN 50.

5. Save the new setting (See page 34 for “Saving New Values”).

Lift Speed

This parameter controls the speed at which the platform elevates.

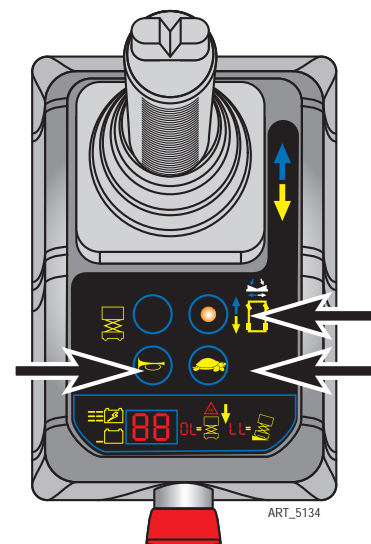
1. Press the Lift Mode Select button. The button will light up, indicating this mode is active.
2. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
3. Elevated Drive Speed can be set from 00 to 99. Factory setting is 99.
4. Save the new setting (See page 34 for “Saving New Values”).



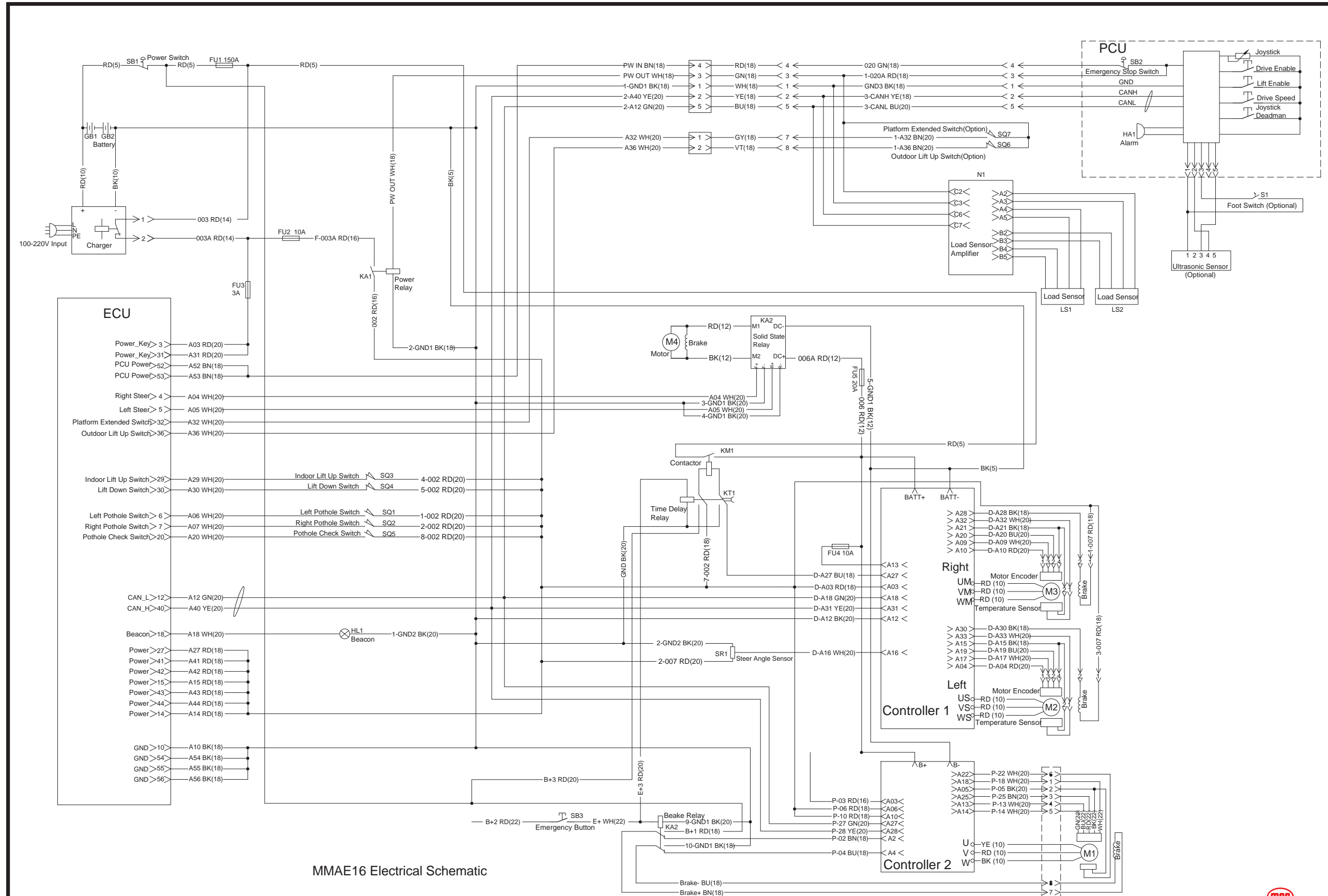
Steering Speed

This parameter controls speed at which the steering wheels turn.

1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Horn button and the Low Speed Mode Select button (turtle icon).
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Steering Speed can be set from 00 to 99. Factory setting is 30.
5. Save the new setting (See page 34 for “Saving New Values”).



Electrical Schematic



MMAE16 Electrical Schematic