



10 Amp STD Electric Motor Driver

Kit 18008

The Electric Motor Driver Module (EMD) replaces the servo valve. System flow is controlled by regulating the pump speed.

⚠ Controller must be set for "Bypass" operation.

EMD Module Installation

⚠ Be sure to route cables away from sharp edges, heat sources, and moving parts - and secure cabling with plastic ties.

⚠ Mounting surfaces must be cleaned free from dirt, moisture and oil residues. Failure to clean the mounting surface may result in adhesive failure.

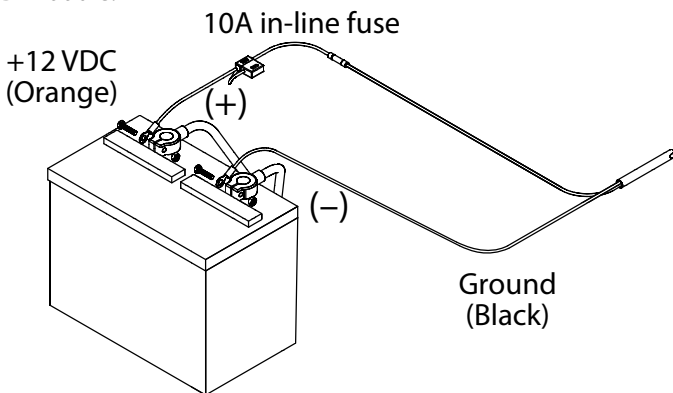
Find a location that makes routing wiring as simple and direct as possible. Peel off the backing from the included adhesive strip, press it firmly to the bottom of the module, then peel off the other backing and press the module in place. As a precaution, also secure the module with plastic cable ties. This prevents it from contacting any moving parts if it vibrated loose. Alternatively, the module can be fastened with screws through the holes in the mounting flanges.

Electrical Installation

The EMD **MUST** be connected to a 12VDC negative ground electrical system. **Note:** battery terminal connections must be clean with solid metal-to-metal contact.

1. Power Cable to Battery Connection

Find 20' Power Cable PN18137 and route to the battery. Join the BLACK wire to ground, and join the ORANGE wire to positive battery terminal. Connect power to the EMD by plugging the 3-pin W/P tower on the power cable into the 3-pin W/P shroud of the EMD module.



2. Enable Connection

Locate the Enable Adapter PN17279. Plug the 2-pin W/P shroud into the mating connector on the EMD module and connect the 3-pin W/P shroud to Section On/Off connection on controller harness.

⚠ +12 VDC signal is required to turn the EMD on.

3. Control Connection

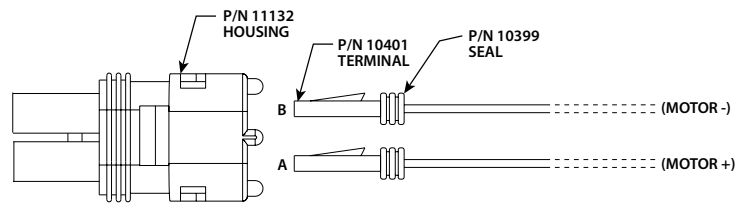
Locate the 5' Ext. Cable P/N 10450. Connect the 3-pin W/P shroud to the 3-pin W/P tower on the EMD module. Connect the other end of the cable to the Control connection on the controller harness.

4. Motor Connection

Locate 5' Motor Extension Cable PN14501. Plug the 2-pin W/P tower into the 2-pin W/P shroud on the EMD module. Join 2-pin W/P shroud to motor (pump). If needed, a 2-pin W/P tower mating connector is included to connect to the motor, or the connector on the 5' Ext. Cable PN14501 can be removed and wire-to-wire connection can be made. Check that the pump rotates in the correct direction. If not, simply reverse the wires.

⚠ Do not connect the motor leads to the battery or power supply. Resulting damage to module will NOT be covered under warranty.

2-pin W/P Tower mating connector



Kit 18008 Parts List

Part	Qty.	Description
18072	1	10A STD EMD Module
17279	1	Enable Adapter
14501	1	Motor Extension Cable 5'
18137	1	Power Cable 20'
10450	1	Control Extension Cable 5'
11132	1	2-pin W/P Tower Housing
10401	2	W/P Terminals
10399	2	W/P Seal

Module Connectivity

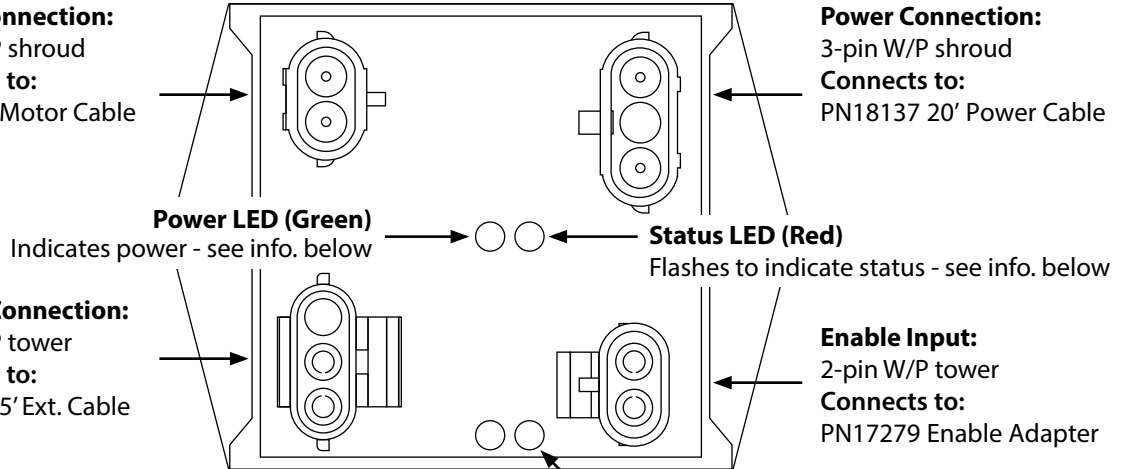
⚠ IMPORTANT! ⚠
Do **not** connect the motor leads to the battery or power supply. Resulting damage to controller will **not** be covered under warranty.

Motor Connection:
2-pin W/P shroud
Connects to:
PN14501 Motor Cable

Power Connection:
3-pin W/P shroud
Connects to:
PN18137 20' Power Cable

Control Connection:
3-pin W/P tower
Connects to:
PN10451 5' Ext. Cable

Enable Input:
2-pin W/P tower
Connects to:
PN17279 Enable Adapter



4 LED MODELS: (2020 & after)

Power LED (Green):

LED on steady Unit turned on and operating normally

1 Flash/pause Unit in **HOLD**.

⚠ After 5 consecutive minutes in **HOLD** position, the Power LED will automatically turn off & stay off until module is in **RUN** again.

Status LED (RED): flashing code repeats every 4 sec. - cycle controller power to clear fault code

2 Flashes/pause Output short circuit detected. Check motor connections.

3 Flashes/pause Over-current condition. Check total load.

4 Flashes/pause Input power fault. Check input voltage and/or power wiring.

5 Flashes/pause PWM control input frequency out of range. Check settings.

6 Flashes/pause Internal processor fault.

7 Flashes/pause Thermal shutdown fault. Unit is overheated.

Control Signal LEDs

Green: On when control signal is present and increasing

Red: On when control signal is present and decreasing

⚠ Cycle power with controller ON/OFF switch to clear a fault code.

3 LED MODELS: (2020 & before)

Single Status LED: flashing code repeats after pause - cycle controller power to clear fault code

LED on steady Unit turned on and operating normally

Steady Flashing Unit in **HOLD**. Check Run/Hold switch or remote switch on controller.

1 Flash/pause Open circuit detected. Check motor connections for open.

2 Flashes/pause Output short circuit detected. Check motor connections.

3 Flashes/pause Over-current condition. Check total load.

4 Flashes/pause Input power fault. Check input voltage and/or power wiring.

