



Electric Motor Driver (EMD) Module

40 AMP MAXIMUM

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

IMPORTANT! The EMD MUST be connected to a 12-volt DC negative ground electrical system.

IMPORTANT! Route all cables away from sharp edges, areas of high heat and moving parts. Secure them firmly with plastic cable ties.

INSTALLATION STEPS

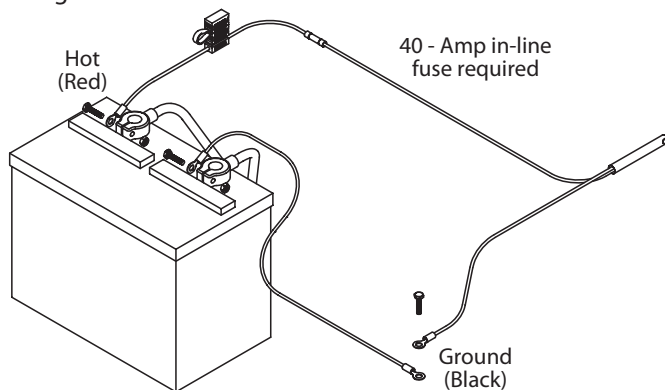
1. Install Module

Remove the backing from the Dual-Lock™ fasteners and attach to the bottom of the EMD unit. Position the EMD where wiring will work the best. Extension cables are available. Firmly press the EMD into place. Secure the EMD to the equipment using plastic cable ties to prevent the EMD from coming into contact with moving parts if the Dual-Lock™ fasteners should work loose. If desired, the EMD can be fastened with screws, using the holes in the mounting flanges.

NOTE: The mounting surface must be free from dirt, moisture and oil residues. Failure to clean the mounting surface may result in the EMD working loose.

2. Connect Battery Power to Module

- Locate the power cable, P/N 18419 and route cable to the battery. Connect BLACK wire to ground. Connect RED wire to positive battery terminal. Be sure there is a good metal-to-metal contact.



- Connect the power to the EMD by plugging the 2-pin M/P tower on the power cable into the 2-pin M/P shroud of the EMD module.

3. Connect Module to Controller

IMPORTANT! Micro-Trak Controller MUST be set to "BYPASS".

- Locate the boom wire, P/N 17279. Plug the 2-pin W/P shroud into the mating connector on the EMD module and plug the 3-pin W/P shroud into the Boom 1 connector on the controller harness. If necessary, remove the 3-pin W/P shroud and crimp P/N 10657 red quick-disconnect terminal into end of wire.
- Connect the servo or control input to the 3-pin 2-wire W/P tower on the EMD module.
- Locate the motor cable P/N 18420. Plug the 2-pin M/P 480 shroud into the 2-pin M/P 480 tower EMD module. Connect the other end to the pump. Ensure that the pump is running in the correct direction. If not, simply reverse the wires from the pump to the pump cable.

Note: The +12 VDC signal is required to turn the EMD on..



EMD MODULE STATUS INFORMATION

CONTROL SIGNAL STATUS LEDS

- Green LED lights when servo signal is present and increasing
- Red LED lights when servo signal is present and decreasing

SYSTEM STATUS LED CODES		
Light on steady	☀	Unit is turned on and operating normally
Steady Flashing	☀ ☀ ☀ ☀ ☀ ☀ ☀	Unit in HOLD. Check Run/Hold jumper or remote switch for correct operation.
1 Flash/pause	☀ ● ☀ ● ☀ ● ☀	Open circuit detected. Check motor connections for open.
2 Flash/pause	☀ ☀ ● ☀ ☀ ● ☀	Output short circuit detected. Check motor wiring.
3 Flash/pause	☀ ☀ ☀ ● ☀ ☀ ☀ ●	Over-current condition. Check total load.
4 Flash/Pause	☀ ☀ ☀ ☀ ● ☀ ☀ ☀ ☀ ●	Input Power fault. Check input power wiring.
5 Flash/pause	☀ ☀ ☀ ☀ ☀ ● ☀ ☀ ☀ ☀ ☀ ●	Input frequency out of range. (PWM models only)

NOTE: Cycle power with the controller ON/OFF switch to clear a fault code

MODULE DIAGRAM

