



PWM Pump Driver (EPD) Module

30 AMP MAXIMUM

The Pump Driver Module (EPD) replaces the servo valve. System flow is controlled by regulating the pump speed via a PWM signal to the EPD.

NOTE: This unit will ONLY work with PWM (Pulse Width Modulated) Control drives. Set the PWM frequency of your controller to 100 Hz., Minimum PWM to ~10% and Maximum PWM to ~80%.

MODULE INSTALLATION

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

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

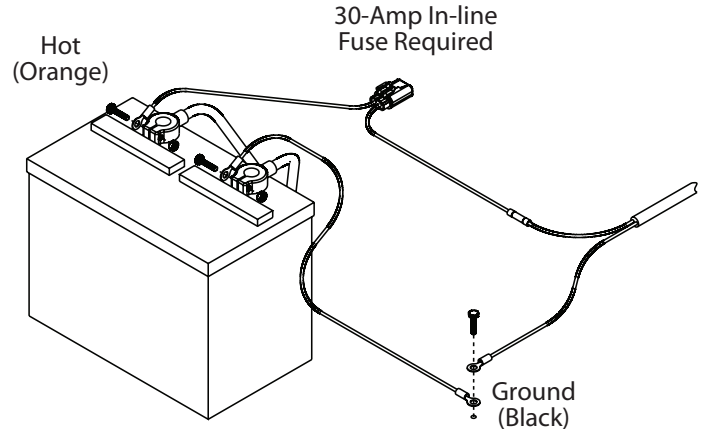
ELECTRICAL INSTALLATION

This section explains how to hook-up your EPD to a 12-volt power connection, and how to connect your EPD to your controller harness.

The EPD **MUST** be connected to a 12-volt DC negative ground electrical system.

POWER BATTERY CONNECTION

Locate the power cable, P/N 14499 and route to the battery. In routing cable avoid areas where the cable may be subjected to abrasion or excessive heat. Attach the BLACK wire (ground) to a screw or bolt on the equipment frame. See Illustration to the



upper right. Be sure there is a good metal-to-metal contact. Connect the ORANGE wire to the positive battery terminal.

Connect the power to the EPD by plugging the 3-pin W/P tower on the power cable into the 3-pin W/P shroud of the EPD module.

SIGNAL AND MOTOR CONNECTIONS

NOTE: Be sure to route cables away from sharp edges, areas of high heat and moving parts. Secure all cables firmly with plastic cable ties.

Locate the PWM drive cable P/N 13200. Connect the 2-pin M/P tower to the 2-pin M/P shroud on the EPD module. Connect the other end of the cable to the mating connector on the controller harness using Adapter Cable P/N 17954 if required.

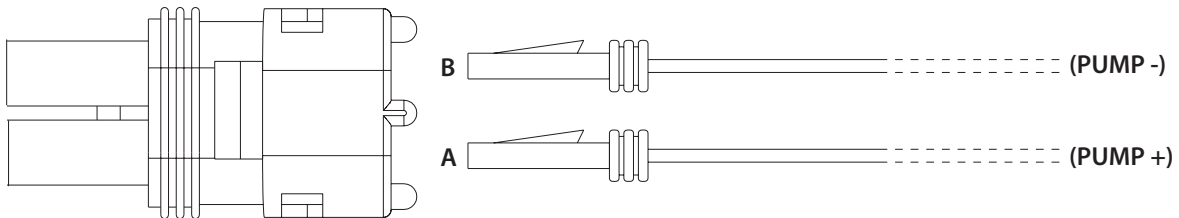
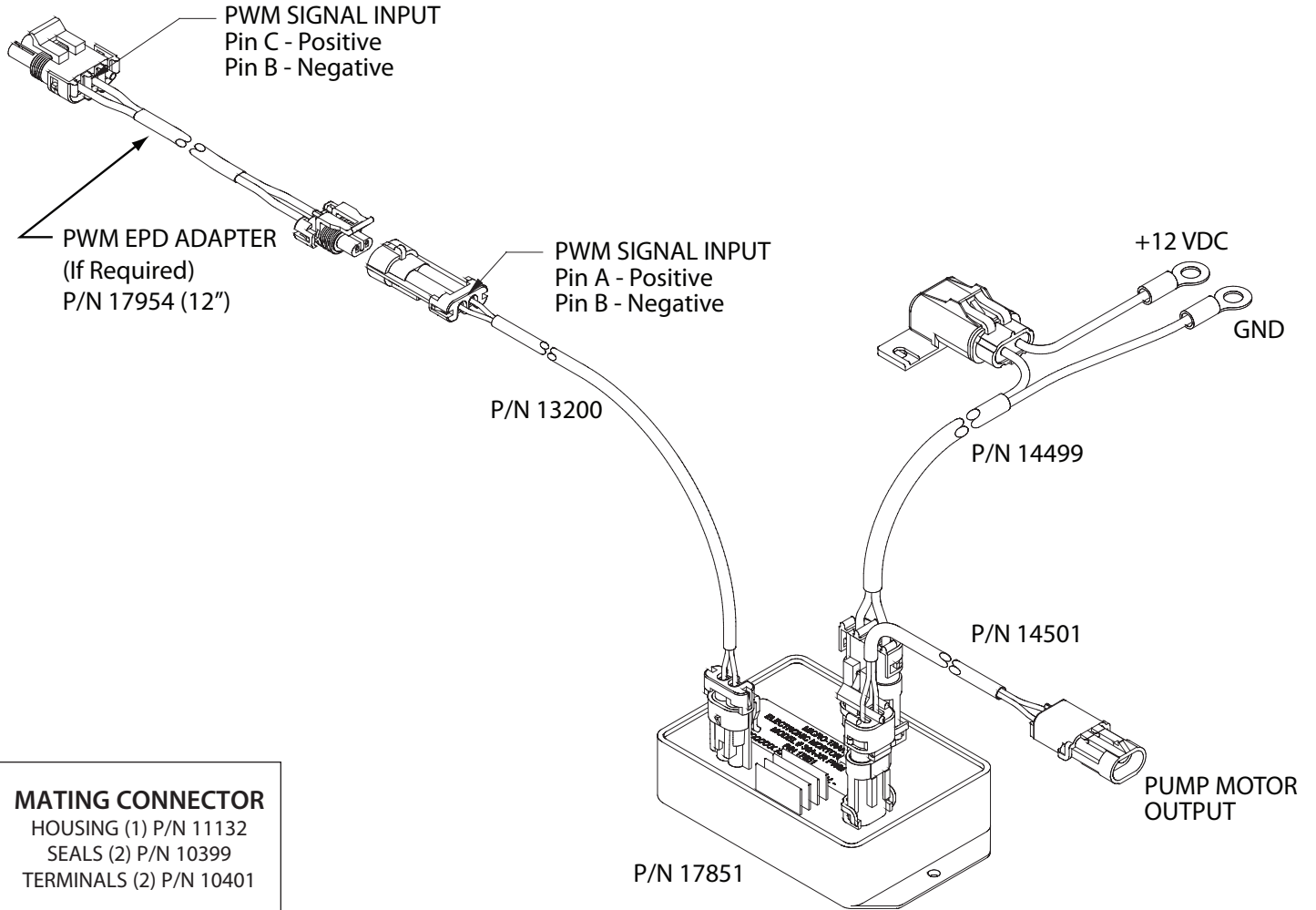
Locate the pump cable P/N 14501. Plug the 2-pin W/P tower into the 2-pin W/P shroud on the EPD module. A mating connector is supplied to connect to the motor, or the connector on the pump cable can be removed and wire-to-wire connection can be made. Insure that the pump is running in the correct direction. If not, simply reverse the wires from the pump to the pump cable.

See Next Page for Applicable Diagram.



PWM Pump Driver (EPD) Module Diagram

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WARNING: Do NOT connect the motor leads to the battery or power supply. Non-warranty damage will result if the motor leads are connected to the battery or power supply.