## service bulletin



STERN DRIVES/INBOARD ENGINES

- A. Tachometer and Synchronizer Requirements on New Thunderbolt IV Ignition System - MIE 230/260/340
- B. Voltage Regulator Replacement MCM 80/90

NUMBER: 81-16 DATE: 7/1/81

CIRCULATE TO: SERVICE MANAGER PARTS MANAGER **MECHANICS** 

## A. TACHOMETER AND SYNCHRONIZER REQUIREMENTS ON NEW THUNDERBOLT IV IGNITION SYSTEM - MIE 230/260/340

The new ignition system (Thunderbolt IV) used on the above models can use either Quicksilver Tachometer 79-87178A1 or 79-90767A1. On dual engine installations, any synchronizer that monitors ignition impulses at the negative ( ) terminal of the ignition coil will operate properly.

## B. VOLTAGE REGULATOR REPLACEMENT - MCM 80/90

Voltage Regulator (Part No. 46011A1) is No Longer Available (N.L.A.) from Mercury Marine for the MCM 80/90 Engines. A voltage regulator from the MCM 470 (air-cooled system) can be installed quite easily. Order the following:

(1) 45559

Terminal Block

(1) 75220

Voltage Regulator (MCM 470)

(2) 10-62568

Screws

(1) 84-79147A1 Connector & Harness (Used on Power Trim Pump)

Installation of new voltage regulator (Figure 1):

- 1. Disconnect battery leads from battery.
- 2. Plug connector and harness into engine wiring harness connector.
- 3. Connect Red/Purple lead (84-79147A1) to Red lead (75220) at terminal block (45559) using screw (10-62568).
- 4. Connect Light Blue/White lead (84-79147A1) to White/Black Lead (75220) at terminal block using second screw.
- 5. Connect Green/White lead (84-79)47A1) to new voltage regulator mounting flange. Install bolt through Green/White lead terminal then through regulator to engine.

IMPORTANT: Make sure this lead and new regulator have a good ground. Failure to do this will not allow new regulator to function.

- 6. Mount new regulator and terminal block to mounting place using the appropriate attaching screws. New mounting holes may have to be drilled.
- 7. Make sure all connects are tight and reconnect battery leads to battery.

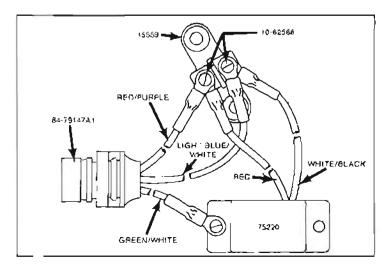


Figure 1. New Voltage Regulator Installation