

TO: SERVICE MANAGER  MECHANICS   
PARTS MANAGER

**No. 91-13**

## PRIMING 4-CYCLE ENGINES WITH OIL

### Models

All MerCruiser gasoline and diesel engines.

### Changes

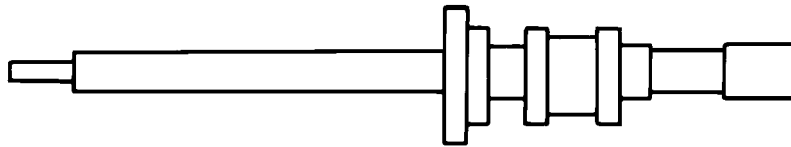
Effective immediately, all 4 cycle engines should have its oil system pre-primed before starting. This applies to all power packages that have not been run within the last 6 months, replacement partial engines or after rebuilding engine.

### Explanation

This procedure is required to help eliminate premature bearing failures upon initial start-up of engines.

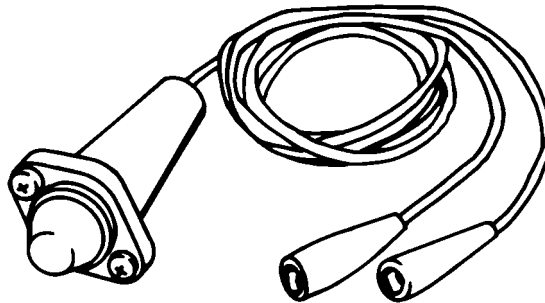
### Tools Required

91-822018 Priming Tool (For V6 and V8 gasoline engines only.)



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91-52024A1 Remote Starter Switch (For gasoline engines only.)



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### Instructions

A. Preferred method for V6 and V8 gasoline engines.

1. Fill crankcase to proper level with recommended engine oil.
2. Remove distributor assembly if installed.
3. Install oil Priming Tool (91-822018) into distributor bore and onto oil pump shaft.
4. Turn oil pump with an electric drill for a minimum of 2 minutes or until oil pressure registers on oil pressure gauge.
5. Remove priming tool and reinstall distributor according to instructions outlined in Service Manual.

B. 4 Cylinder engines and alternate method for V6 and V8 gasoline engines.

1. Fill crankcase to proper level with recommended engine oil.
2. Remove all spark plugs.
3. Leave ignition key in "OFF" position.
4. Connect Remote Starter Switch (91-52024A1) to large 12V terminal (Red battery cable) and small terminal (Yellow-Red wire) on starter motor.
  - a. If you don't have a Remote Starter Switch, disconnect Purple wire from ignition coil before using key switch to crank engine over. Tape terminal on Purple wire to prevent it from touching ground.
5. Crank engine over for 15 seconds, then allow starter motor to cool for 1 minute. Watch that starter motor does not overheat.
6. Repeat until a total of 45 seconds of crank time is achieved.
7. Remove Remote Starter Switch.
  - a. If key switch was used, reconnect Purple wire to ignition coil.
8. Install spark plugs and wires.
9. With cooling water being supplied to seawater pump, start engine.

C. Diesel engines (Priming engine and turbocharger oil system).

1. Fill crankcase to proper level with recommended engine oil.
2. Turn key switch "ON".
3. Do not allow engine to start. Depress and hold both the "START" and "STOP" buttons.
4. Crank engine over for 15 seconds, then allow starter motor to cool for 1 minute. Watch that starter motor does not overheat.
5. Repeat until a total of 45 seconds of crank time is achieved.
6. With cooling water being supplied to seawater pump, start engine.