service bulletin

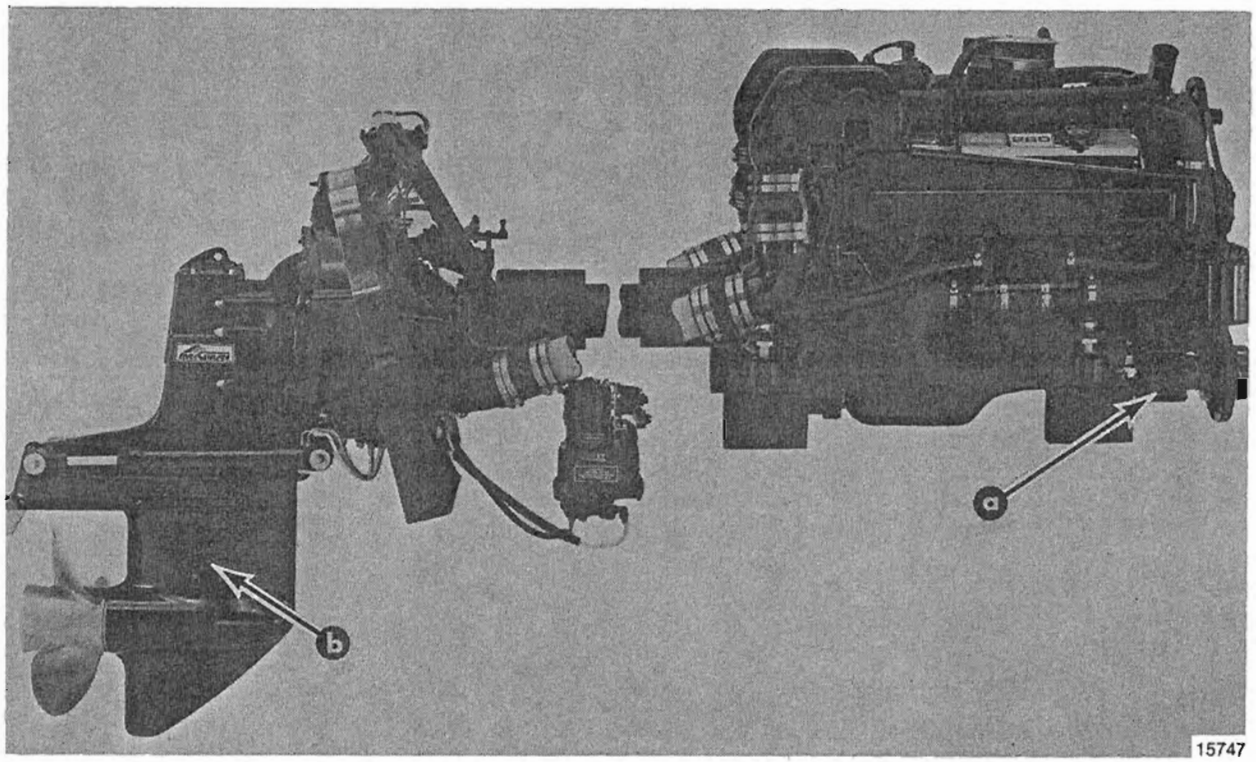
STERN DRIVES/INBOARD ENGINES

NUMBER: 81-36
DATE: 12/23/81

CIRCULATE TO:
SERVICE MANAGER
PARTS MANAGER
MECHANICS

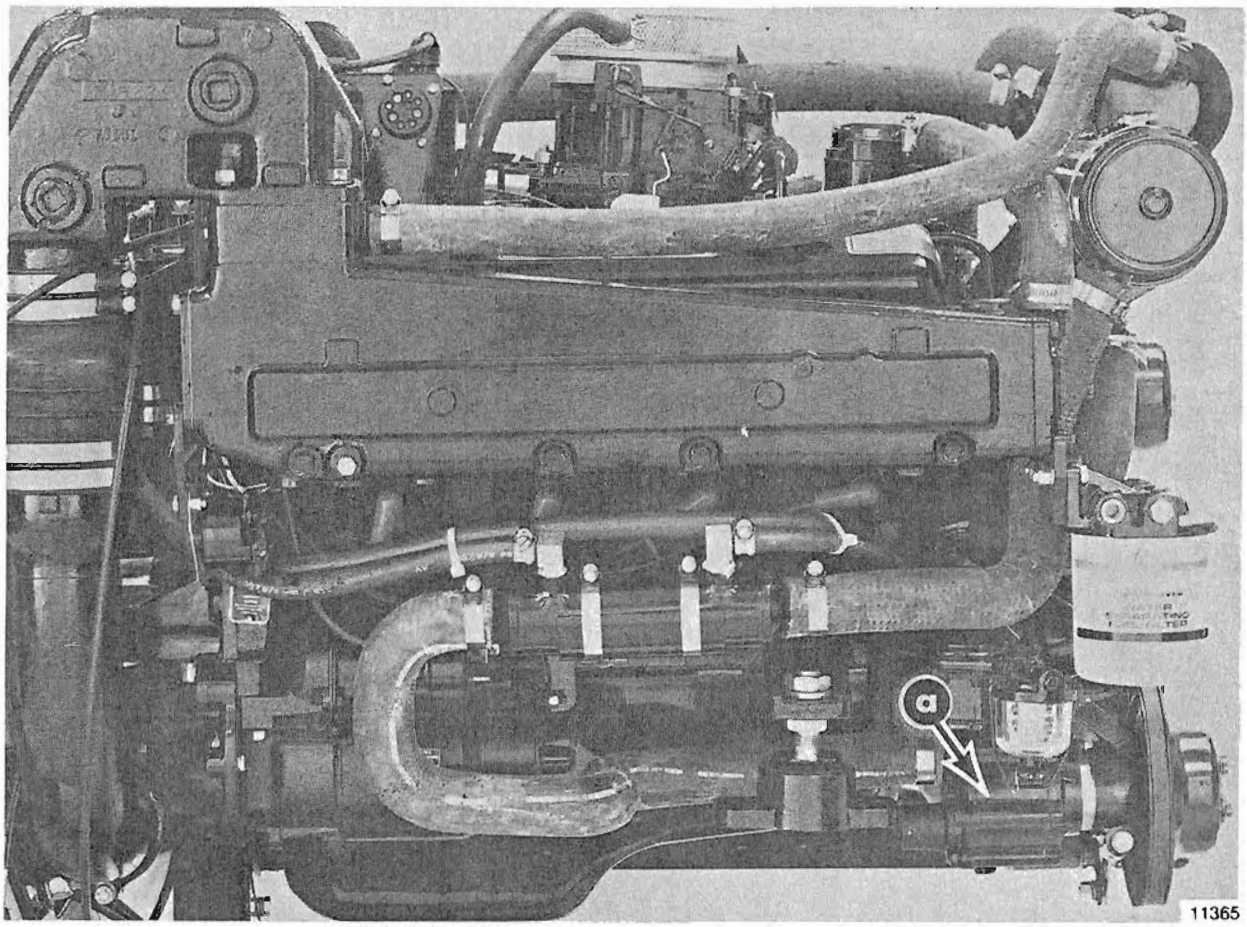
OPERATING POWER PACKAGE WITH BOAT OUT-OF-THE-WATER — MerCruiser MCM 898/228/260 with Optional Drive Shaft Extension Kit or Closed Cooling

MerCruiser MCM 898/228/260 Power Packages with optional drive shaft extension kit (Figure 1) or Closed Cooling (Figure 2), utilize both the seawater pickup pump in stern drive unit and on the engine for cooling. The engine mounted seawater pickup pump provides water for cooling engine; while, the seawater pickup pump in the stern drive unit pumps water thru the drive unit to keep it cool. If the power package is to be operated with boat out-of-the-water, WATER MUST BE SUPPLIED TO BOTH SEAWATER PICKUP PUMPS to prevent impeller damage and subsequent overheating damage to engine and/or drive unit. Use the procedure, explained following, when operating power package with boat out-of-the-water.



a - Engine Mounted Seawater Pickup Pump
b - Water Pickup for Seawater Pickup Pump In Stern Drive Unit (One Each Side)

Figure 1. MerCruiser Power Package with Drive Shaft Extension Kit



a - Engine Mounted Seawater Pickup Pump

Figure 2. MerCruiser Power Package with Closed Cooling

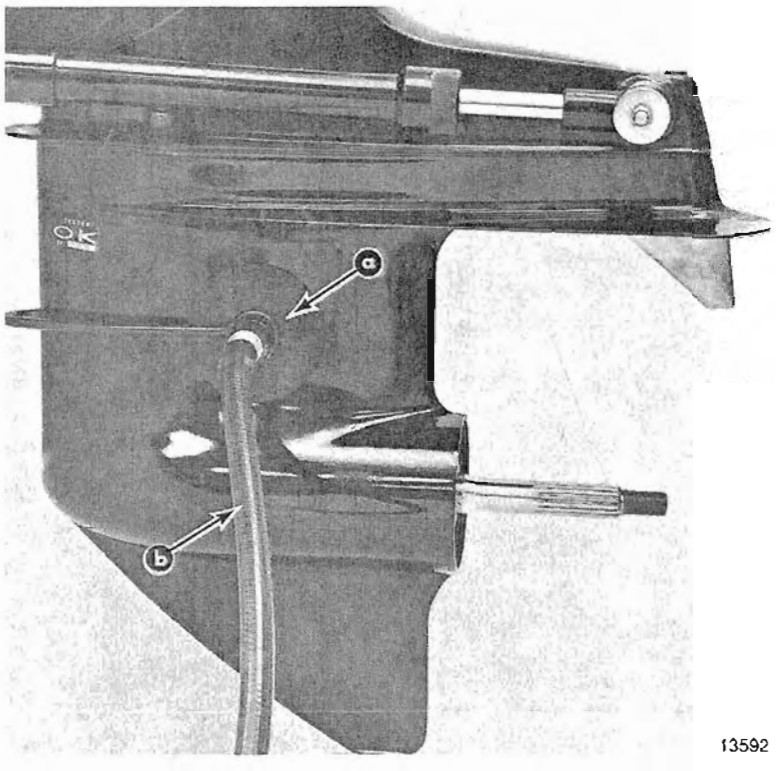
Operating Power Package With Boat Out-of-the-Water

CAUTION: Seawater pickup pumps MUST BE connected to two independent water sources to ensure an adequate supply of water to each pump. DO NOT run engine above 1500 RPM, as suction created by seawater pickup pumps may collapse garden hoses and cause engine and/or drive unit to overheat.

1. Install Quicksilver Flush-Test Device (73971A1) over water pickups on stern drive unit and attach a garden hose between flush-test device and water tap. (Figure 3)

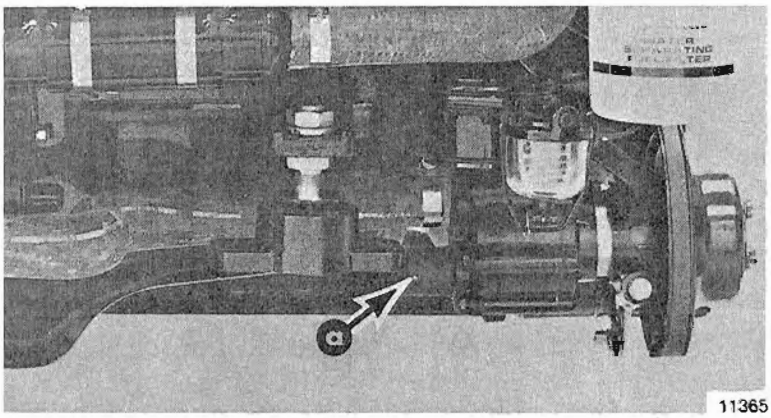
SAFETY WARNING: When flushing, be certain that area in vicinity of propeller is clear and that no person is standing nearby to avoid possible injury. It is advisable to remove propeller as a precautionary measure.

2. Disconnect water inlet hose from seawater pickup pump. (Figure 4) Using appropriate hardware, connect a garden hose between pump inlet connection and water tap.
3. Open water tap approximately ½-maximum capacity. DO NOT USE FULL CITY WATER PRESSURE.
4. Place the remote control lever in neutral position and start the engine. Do not run engine above 1500 RPM. Monitor water temperature gauge to ensure that engine does not overheat.



a - Flush-Test Device b - Garden Hose

Figure 3. Quicksilver Flush-Test Device (73971A1) Installed on Stern Drive Unit



a - Water Inlet Connection

Figure 4. Seawater Pickup Pump Water Inlet Connection