

(4) Remove air pump pulley, brackets and outlet elbow from air pump.

Installation

(1) Install air pump pulley, outlet elbow and brackets on air pump. Use new gasket on pump flange. Tighten the air pump pulley screws and outlet elbow screws to 95 inch-pounds and bracket attachment bolts to 30 foot-pounds MAXIMUM.

(2) Position pump assembly on engine and install the air hose to the pump outlet elbow. Install pump pivot and adjusting bolts loosely.

(3) Install drive belt and adjust. See "Cooling System," Group 7. **Do not, under any conditions, pry on the housing.** Tighten mounting bolts to 30 foot-pounds.

CENTRIFUGAL FILTER FAN

Removal

A damaged filter fan may be removed by inserting needle nose pliers between the plastic filter fins and breaking fan from hub. (Fig. 9). Care should be taken to prevent fragments from entering the air intake hole. Do not insert screwdriver blade between pump and filter. It is seldom possible to remove the fan without destroying it. Do not attempt to remove the metal drive hub.

Installation

Install the new filter fan by drawing it into position, using the pulley and bolts as tools. Draw the fan down evenly by alternately torquing the bolts, making certain that the outer edge of the fan slips into the

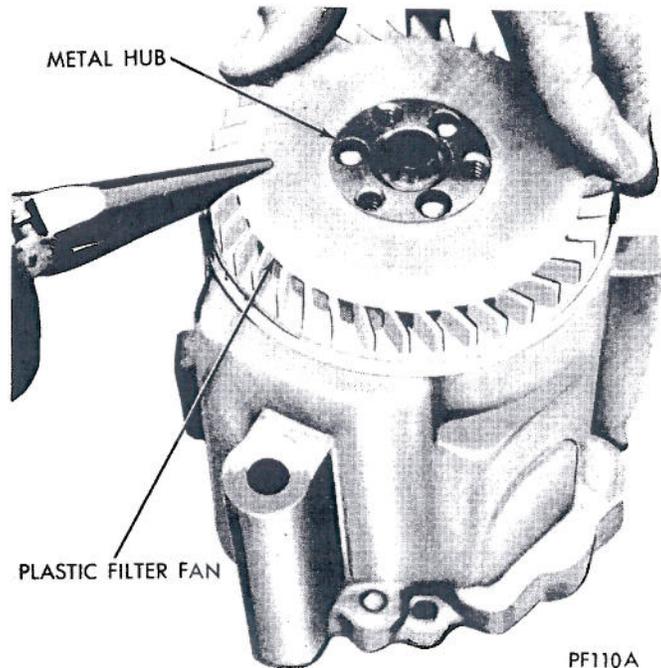


Fig. 9—Removing Centrifugal Filter Fan

housing (Fig. 10). A slight amount of interference with the housing bore is normal. Do not attempt to install a fan by hammering or pressing it on. After a new fan is installed, it may squeal upon initial operation until its O.D. sealing lip has worn in. This may require 20-30 miles of operation.

DIVERTER VALVE

Servicing of the diverter valve is limited to replacement of the entire valve. Failure of the diverter valve will cause excessive noise. Either the relief valve or the diverter valve have failed if air escapes from the silencer at engine idle speed and entire valve assembly should be replaced.

Removal

(1) Remove air and vacuum hoses from the diverter valve.

(2) Remove two screws securing diverter valve to mounting flange and remove valve.

(3) Remove gasket material from diverter valve and mounting flange.

Installation

(1) Position new gasket on mounting flange.

(2) Position diverter valve on mounting flange and secure with two screws. Tighten to 95 inch-pounds.

(3) Reinstall air and vacuum hoses to diverter valve.

AIR SWITCHING VALVE

Servicing of the switching valve is limited to replacement of the entire valve. Failure of the switching valve to shut off the air to the downstream injection

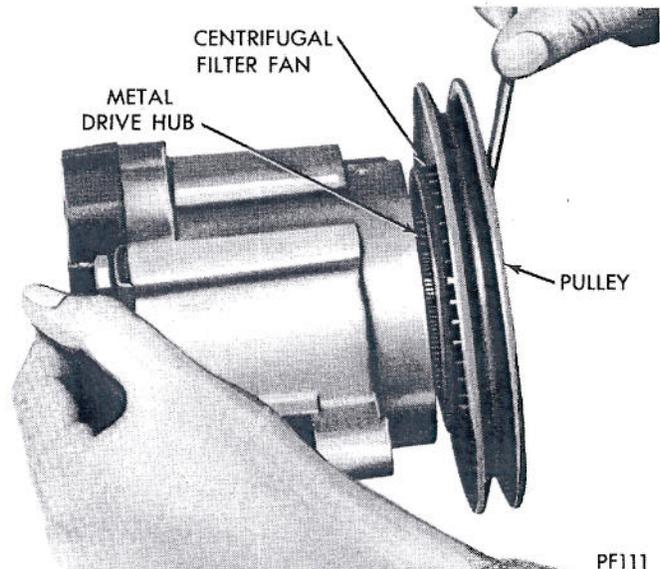


Fig. 10—Installing Centrifugal Filter Fan