

WASHER PUMP PLACEMENT PROCEDURE

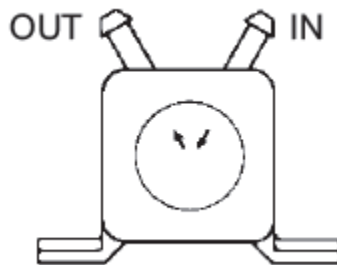
WINDSHIELD WASHER PUMP

IMPORTANT: DETERMINE THE TYPE OF WASHER ON THE CAR. FOLLOW APPLICABLE INSTRUCTIONS

GENERAL INSTRUCTIONS & INSTALLATION TIPS

(Apply to many types of pump systems.)

1. Use all existing parts in good condition. Trim off split or cracked hose ends. Clean reservoir and nozzles.
2. Mount new pump in upright position if possible. For best performance, this pump should be located no higher than 6 inches above the top of the fluid reservoir and within 20 inches of the old pump. Screws provided require 9/64 inches (3.5mm) drill. Caution: Be careful, do not drill into wires or a vital part on the opposite side of the mounting surface. Check before drilling.
3. After installation fill reservoir with washer fluid.
4. Operate new washer system, allowing time for fluid to reach pump. Caution: Do not operate the washer pump without fluid for more than 10 seconds at a time or damage can result.
5. If pump motor runs and fluid does not flow:
 - A. Check for kinks in hose or other obstructions in the system.
 - B. Hoses may be reversed. Check hoses to make sure fluid flows from reservoir to "in" side of pump and to windshield nozzles from "out" side of pump.
 - C. Wiring connections may be reversed causing motor to run backwards. Check wiring to make sure positive and negative leads are correctly wired.
6. If pump motor does not run, check for defective switch or poor connections.
7. Arrows on the bottom of pump provide direction of flow as shown below.



SPECIAL INFORMATION

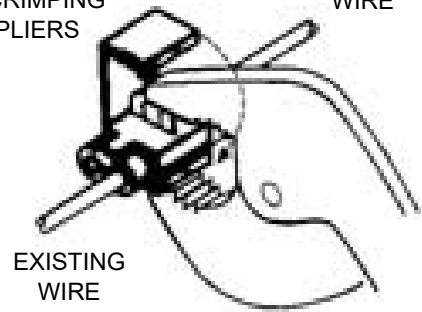
Some vehicles, particularly imported makes, are originally equipped with reservoir type pumps that do not allow a free flow of fluid through the old pump. On such installations it will be necessary to bypass the original pump by drilling a 1/4 inches (6.35mm) hole in the filler cap or another high point of the reservoir. Insert washer pump tubing through the drilled opening (allow enough tubing to reach bottom of reservoir) and route to inlet of new replacement pump. See illustration Type C.

SCOTCH-LOCK CONNECTOR INSTRUCTIONS

Using blue SCOTCHLOCK Connectors supplied insert one existing wire and one new wire in "side by side" slots, crimp with pliers as shown. Repeat with other wires. Then close blue cover to secure connection.

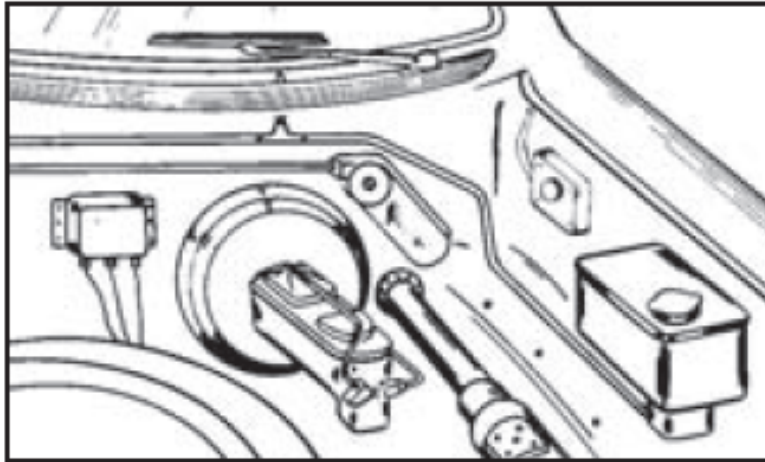
CLOSE COVER
AFTER CRIMPING
WITH PLIERS

REPLACEMENT
WIRE



CRIMP CONNECTOR WITH PLIERS

TYPE A IN A RESERVOIR PUMP SYSTEM



CAUTION: DO NOT REMOVE OLD PUMP

Mounting

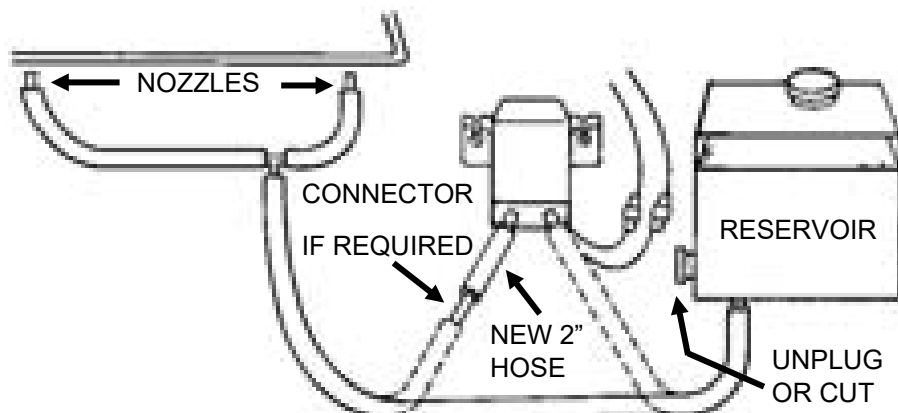
Mount the new pump within 20 inches of old pump.

Hose Connections

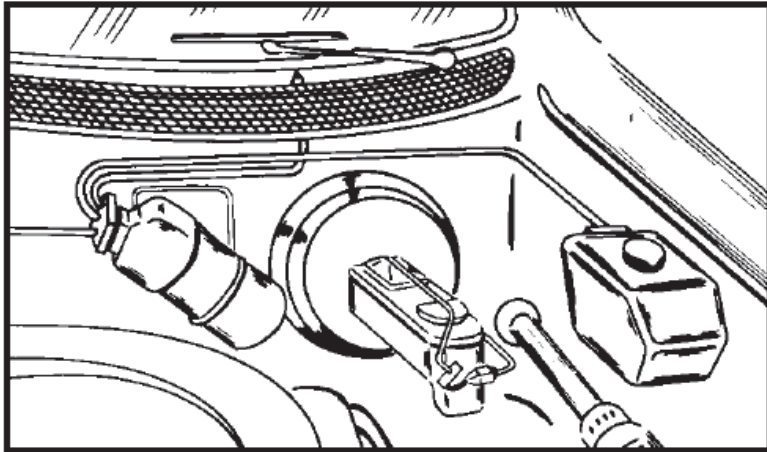
Cut existing hose at new pump location. Attach end from nozzles to "out" side of new pump and end from reservoir to the "in" side. New hose and straight connector are provided for additional length if required.

Wiring

Disconnect or cut existing wires at old pump. Connect pump lead wires as follows-the red lead wire to the positive "hot" wire and black lead wire to the negative "ground" wire of the electrical system. See above for SCOTCH-LOCK Connector Attaching instructions.



TYPE B WIPER MOTOR DRIVEN PUMP SYSTEM (CERTAIN GM CARS)



CAUTION: DO NOT REMOVE OLD PUMP

Mounting

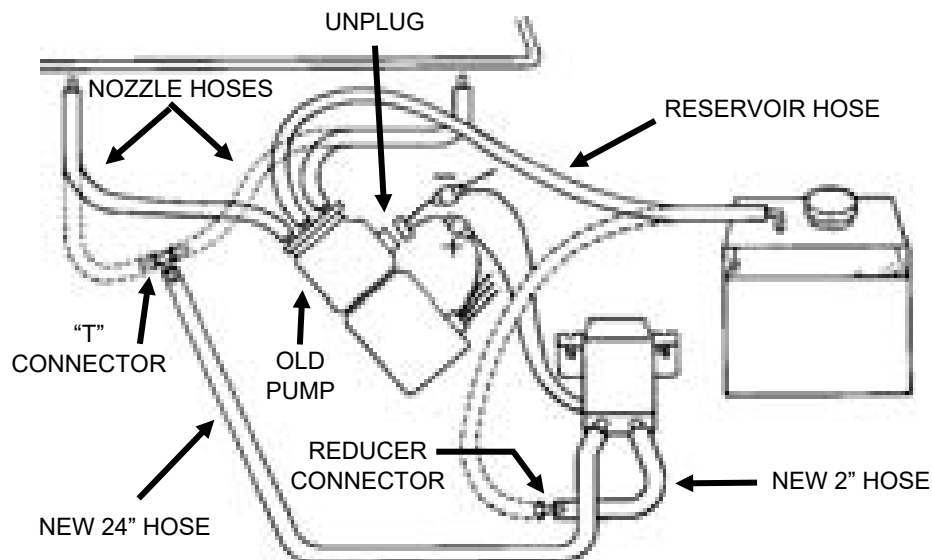
Mount the new pump within 20 inches of old pump.

Hose connections

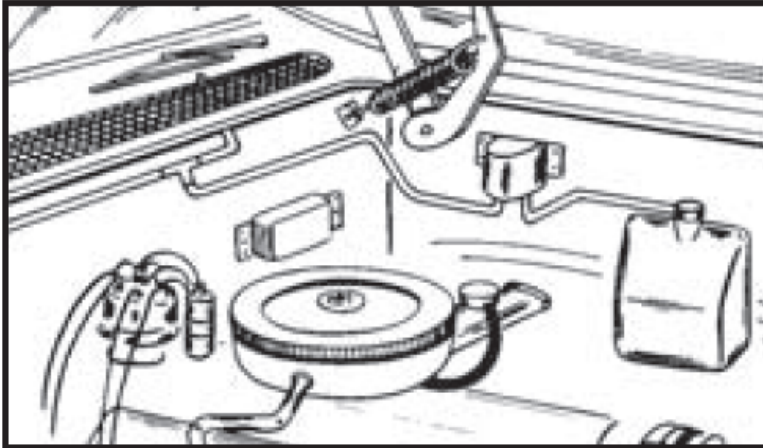
Remove both nozzle hoses from old pump and attach to "T" connector as shown. Cut a 24 inch long piece from hose provided and attach between "out" side of new pump and "T" connector. Remove reservoir hose from old pump and attach to "in" side of new pump using the remaining 2 inch long new hose and reducer connector as shown.

Wiring

On most GM cars, the wiper/washer pump assembly has two electrical plugs. Remove the 2 wire plug, then connect pump lead wires to wires from 2 wire plug as follows-the red lead wire to positive "hot" wire and the black lead wire to the negative "ground" wire of the electrical system. See first column for SCOTCH-LOCK Connector Attaching instructions.



TYPE C SEPARATE PUMP SYSTEM



Mounting

Old pump may be removed and new pump installed in same location.

Hose connections

Attach existing hose from nozzles to “out” side of new pump and hose end from reservoir to “in” side. New hose and straight connector are provided for additional length if required.

Wiring

Disconnect or cut existing wires at old pump. Connect pump lead wires as follows-the red leadwire to positive “hot” wire and the black lead wire to the negative “ground” wire of the electrical system. See first column for SCOTCHLOCK Connector Attaching instructions.