

CHRYSLER CORP. IMPORTS

Arrow Pickup, Challenger, Champ, Colt, Ram-50 Pickup, Sapporo

DESCRIPTION

All models have a 2-speed wiper motor. The washer system uses an electric pump mounted under the fluid reservoir. Challenger and Sapporo models have an intermittent wiper system.

Champ and Colt models may be equipped with a rear wiper/washer. On these models, only one washer fluid reservoir is used, but a separate pump under the reservoir is provided for the rear washer.

OPERATION

The wiper systems are operated by a dash-mounted switch on Champ, Colt and Pickups, and by a column-mounted switch on Challenger and Sapporo. The intermittent system cycles the washers every 6 seconds. If the washer switch on this system is held for about 5 seconds, the wipers make 2-4 sweeps and turn off.

TESTING

FRONT WIPER MOTOR

Raise wiper arms so they do not touch windshield. Unplug motor connector. Connect jumper wires as shown in Front Wiper Motor Testing Terminal Connections chart. Replace motor if it does not run smoothly.

FRONT WIPER MOTOR TESTING TERMINAL CONNECTIONS

Application	Wire Color	Voltage
Arrow & Ram-50 Pickups		
Low Speed	Blue/Wht.	12V
	Blue/Org.	Gnd.
High Speed	Blue/Wht.	12V
	Blue/Blk.	Gnd.
Challenger & Sapporo		
Low Speed	Blue/Wht.	12V
	Blue/Blk.	Gnd.
High Speed	Blue/Wht.	12V
	Blue/Org.	Gnd.
Champ & Colt		
Low Speed	Blue	12V
	Blue/Red	Gnd.
High Speed	Blue	12V
	Blue/Blk.	Gnd.

REAR WIPER MOTOR

Raise wiper arm so motor can operate without load. Connect battery voltage to the Blue wire terminal and connect the Blue-Red wire terminal to ground. Replace motor if it does not run smoothly.

INTERMITTENT RELAY

1) If wipers do not park or operate properly in intermittent position, turn wipers on to intermittent. Insert positive lead of voltmeter into rear of relay connector at terminal 3 and check voltage.

2) Battery voltage should be read at terminal 3 when wipers are stopped. No voltage should be present when wipers are operating. Replace relay if defective.

Fig. 1: Intermittent Wiper Relay Location

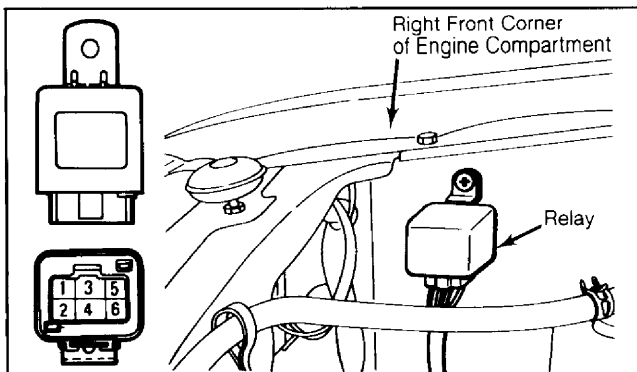


Figure applies to Challenger & Sapporo models only.

3) If wipers do not operate at all in intermittent position, connect a voltmeter to relay. Place the positive lead on terminal 1 and negative lead on terminal 4.

4) Battery voltage should be present. Check voltage between terminal 6 and 4, then between 3 and 4. No voltage should be present. If readings are not correct, replace relay.

5) If wipers do not operate with washer switch on, check for voltage between terminal 1 (+) and terminal 4(-). Battery voltage should be present. With the washer switch on, no voltage should be present at terminal 5.

6) Terminal 3 should have battery voltage for 0.6-1.5 seconds, then drop to zero while wipers operate, then return to 12 volts when wipers stop. If readings are not correct, replace relay.

REMOVAL & INSTALLATION

FRONT WIPER MOTOR

CAUTION: Do not separate crankshaft and motor unless necessary. Be sure to scribe matching marks on shaft and crank arm before disassembly.

Removal (Arrow & Ram-50 Pickups)

Remove wiper arm. Remove shaft nut and push shaft into body. Remove wiper access panel on right side of firewall. Remove motor bolts and connector. Snap motor free from linkage.

Installation

To install, reverse removal procedure.

Removal (Challenger & Sapporo)

Lift wiper arm cover and remove shaft nut. Remove wiper arm, seal and nut. Push shaft into body. Unplug motor wiring and remove mounting bolts. Pull motor out and snap free from linkage. Remove motor and linkage. Remove access cover and pull linkage out.

Installation

To install, reverse removal procedure, ensuring that motor is grounded.

Removal (Champ & Colt)

Disconnect wiring at motor. Remove motor bolts and snap motor free from linkage. Remove motor.

Installation

To install, reverse removal procedure.

Wiper/Washer Systems

CHRYSLER CORP. IMPORTS (Cont.)

REAR WIPER MOTOR

Removal (Champ & Colt)

Remove wiper arm and shaft nut. Open tailgate and remove inner trim panel. Unplug wiring and remove motor bolts. Remove motor.

Installation

To install, reverse removal procedure.

WIPER SWITCH

NOTE: Procedures were not available for switch removal on Arrow and Ram-50 Pickups.

Removal (Challenger & Sapporo)

Disconnect battery ground cable. Remove steering wheel. Tilt column to lowest position and remove column cover. Remove column switch screws. Unplug wiring, remove wiring clip and remove switch.

Installation

To install, reverse removal procedure, ensuring that cancel cam pins are aligned with holes in back of steering wheel.

Removal (Champ & Colt)

Remove instrument cluster hood screws. Remove 5 screws holding lower left panel of dashboard. Unplug wiring harness and remove corner panel. Unplug instrument cluster hood wiring and remove hood. Remove switch knob and switch from hood.

Fig. 4: Champ & Colt Wiring Diagram

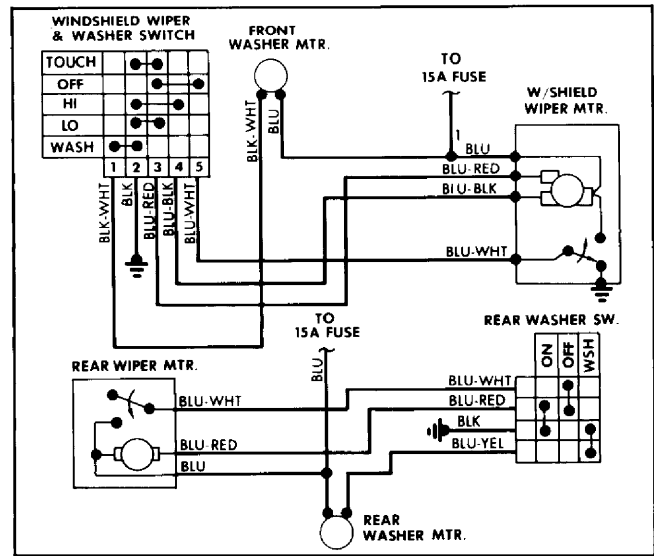
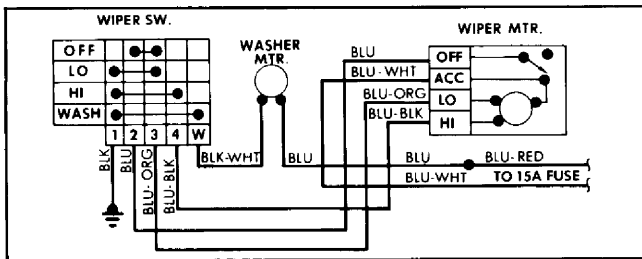


Fig. 2: Arrow & Ram-50 Pickups Wiring Diagram



Installation

To install, reverse removal procedure. Do not overtighten switch screws.

Fig. 3: Challenger & Sapporo Wiring Diagram

