1972 AMERICAN MOTORS ELECTRIC

DESCRIPTION

Two speed electric windshield wipers and electric washers are standard equipment on all models. Optional equipment includes a variable speed or a three speed wiper motor. Wiper motors are mounted to the outside of the air intake chamber. Wiper arms are actuated by a link and pivot assembly attached to wiper motor. Wiper arms move in a tandem like action and park on right side of car. *NOTE – Wiper blades must not be moved manually from side to side or damage will result.*

TROUBLE SHOOTING

No Operation

1) Check for current supply by disconnecting brown feed wire from wiper switch. With ignition switch in ACCESS position use test lamp or voltmeter between brown wire and ground to check feed circuit. If no voltage is present at brown wire, use a test prod and check for output voltage of control switch. A 6 amp. circuit breaker is contained in the switch.

No High Speed Operation

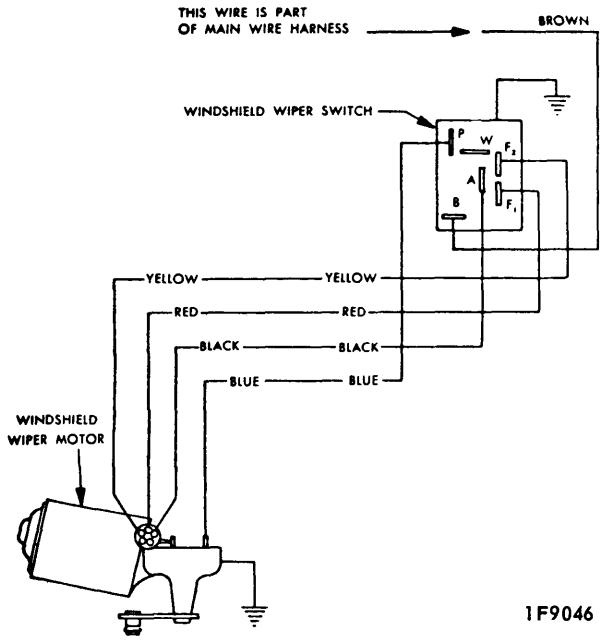
1) With voltage available from switch, disconnect the connectors at switch. Connect a jumper wire from feed wire to the black wire in harness.

2) Motor should now operate. If not, check circuit through black wire and its connectors. If circuit OK and motor does not operate, replace motor.

No Low Speed Operation

1) Connect a jumper lead from brown feed wire to both red and black wires in harness. Ground the yellow wire.

2) If motor does not run, check red and yellow wires for continuity. If wires and connections are OK, replace motor.



WIPER MOTOR WIRING DIAGRAM

Wiper Will Not Park

1) Connect black and yellow wires together, connect battery supply to blue wire and ground red wire. Motor should reverse to park position.

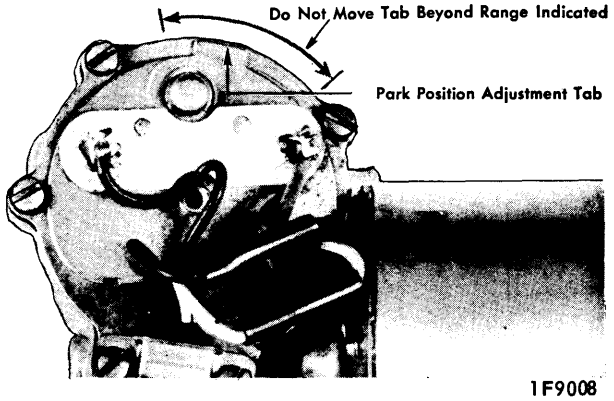
2) If motor does not run, park switch may be open or defective. Leave above connections intact, connect a jumper wire from blue wire to green wire at the motor to momentarily run motor. Wiper switch case must be grounded for park or variable speeds.

3) If motor still does not run, check blue wire at motor contact switch plate for battery voltage. If there is no voltage present check and repair circuitry of blue wire.

Park Position Not Correct

1) If sweep of blades is OK, check assembly and adjustment shown in accompanying illustrations. These items do not affect the sweep of the blades.

2) Minor adjustments can be made to the park position by moving the adjustment tab. Do not move the tab beyond the points indicated in the illustration.



PARK POSITION TAB ADJUSTMENT

Wiper Will Not Stop

1) Replace the park switch or cam drive plate.

2) If motor continues to run, replace control switch.

SPECIFICATIONS

Field Coil Draw – 1.52-1.76 amps. @ 12 volts and 70°F (shunt winding).

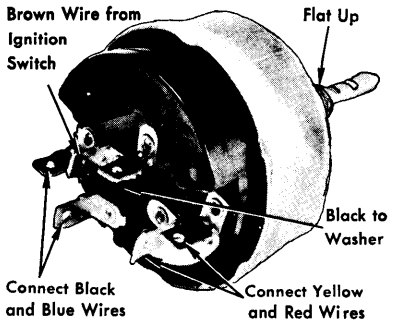
No Load Draw – 3.0 amps. max. @ 14 volts and 70°F (full field).

Armature Endplay – .005" max. To adjust, turn screw at drive end of armature shaft. Replace screw if nylon lock is so worn screw will not hold setting.

1972 AMERICAN MOTORS ELECTRIC (Cont.)

COMPONENT REPLACEMENT

Wiper Motor (Hornet, Gremlin, Javelin) – Remove four screws holding motor to dash panel. Separate the wiper and wire harness plug at the motor on Hornet and Gremlin, and disconnect wire from control on Javelin. Place pivot shafts and linkage aside, then tilt motor and slide link to motor retaining clip off of stud and remove motor.



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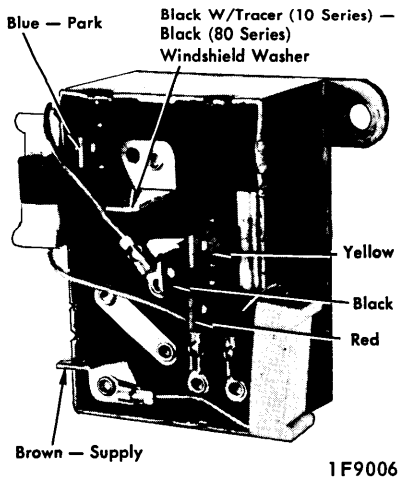
CONTROL SWITCH – GREMLIN & HORNET

Wiper Motor (Matador, Ambassador) – *NOTE – On Matador and Ambassador, Cowl Air Intake Cover must be removed first, observe the following:*

1) Open hood and remove 7 air intake to cowl screws. Close hood and remove lower windshield reveal mouldings using tool J-2631-01 or equivalent, taped to prevent paint damage. Pry moulding off along bottom edge.



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CONTROL SWITCH – MATADOR, JAVELIN, AMBASSADOR

2) Remove 8 air intake cover screws to cowl top. Remove antenna nut. Remove pivot shaft chrome hex nuts, washers and spacers. Lift cowl air intake cover straight up and away from car.

3) Remove wiper arms and blades and slide link to motor retainer clip off motor arm stud, and remove link from motor. Disconnect the switch to motor female connectors at the switch and remove through main wire harness grommet. To install, reverse removal procedure.