

FORD MOTOR CO.

DESCRIPTION

Power windows are operated by reversible type motors mounted with each individual window regulator. Each window has an individual switch for separate control. A master control switch is located on the left front door, and all windows may be controlled from this switch. A lock out switch is incorporated in the master switch and when actuated prevents window operation from the individual switches. A relay prevents window operation unless the ignition switch is in the ON or ACC position.

TESTING

WINDOW MOTOR

With motor and drive assembly removed from vehicle, connect a fully charged battery to motor with an ammeter connected in series. Current draw for this no load test should not exceed 5 amps. at 12.8 volts, and should not fluctuate. Reversal of battery connections will reverse motor rotation and current draw should be the same. Motor must be replaced if current draw exceeds specifications.

MASTER WINDOW SWITCH

1) Test procedures are performed using a self powered test light or ohmmeter. All test procedures are performed with switch removed from vehicle. See illustration for reference to pin numbers referred to in test procedures.

2) Connect one test lead probe to pin three, which is grounded. With all switches in neutral position, pins four through eleven should have continuity with pin three.

3) Push any one of all four switches forward. All odd numbered pins of switch pushed forward should lose continuity with pin three.

4) Push any one of all four switches rearward and all even numbered pins (four through ten) of switch pushed rearward should lose continuity with pin three.

5) Remove test lead probe from pin three and connect to pin two. With all switches in neutral position, only pin one should have continuity with pin two.

6) Push any one of all four switches forward and hold in that position. All odd numbered pins of switch pushed forward should have continuity with pin two.

7) Push any one of all four switches rearward and hold in that position. All even numbered pins of the switch pushed rearward should have continuity with pin two. If any one switch does not test correctly, as previously outlined, switch must be replaced.

SINGLE WINDOW SWITCH

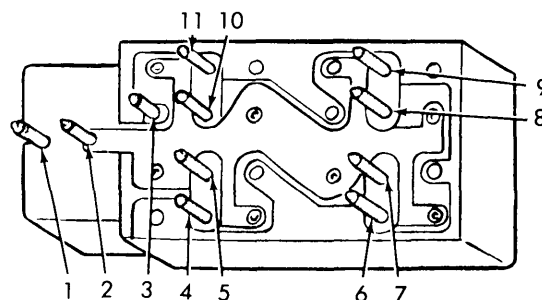
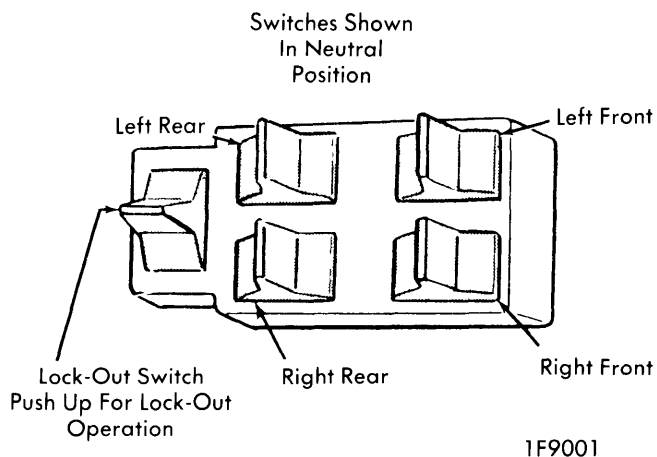
NOTE — Torino, Elite, Montego and Cougar models use two single switches as a master switch instead of multiple master switch. Switches are tested using single window switch procedure.

1) Test procedures are performed using a self powered test light or ohmmeter. All tests are performed with switch removed from vehicle. See illustration for reference to pin numbers referred to in test procedures.

2) With switch removed and in neutral position, there should be continuity between pins one and three, two and five, and four and six.

3) With switch pushed down, there should be continuity between pins two, four and five, and one and three. Pin six should be disconnected from all others.

4) With switch pushed up, there should be continuity between pins two, three and five, and four and six. Pin one should be disconnected from all others. If switch does not test correctly, as previously outlined, switch must be replaced.



- 1 — Lock-Out Terminal
- 2 — Hot Feed W/Ignition On
- 3 — Ground Terminal
- 4 & 5 — Left Rear Motor Term.
- 6 & 7 — Left Front Motor Term.
- 8 & 9 — Right Front Motor Term.
- 10 & 11 — Right Rear Motor Term.

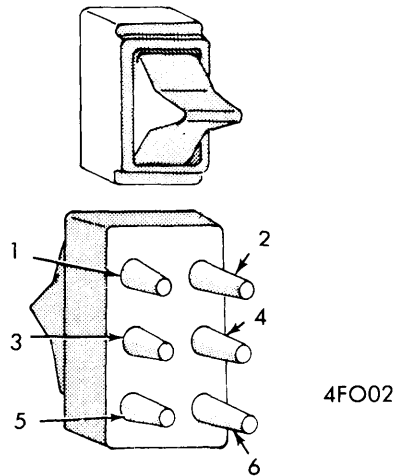
POWER WINDOW MULTIPLE MASTER SWITCH PIN CONNECTIONS & NUMBERS

WINDOW RELAY

With one test lamp lead connected to relay output side and ignition in "ON" or "ACC" position, test lamp should light. If lamp does not light, check continuity of wiring harness from ignition switch to actuating terminal on relay. Check voltage at input terminal. If wiring and voltage are good, replace relay.

Power Windows

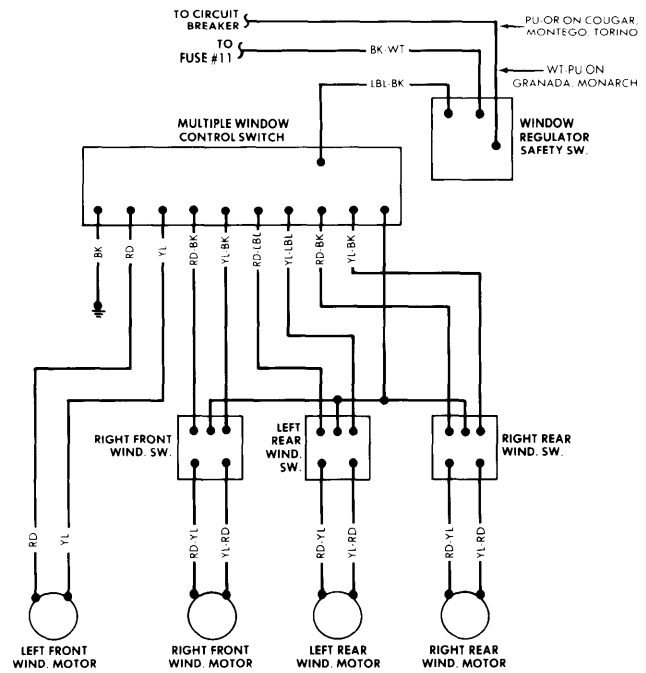
FORD MOTOR CO. (Cont.)



- 1 - Hot Feed Or Ground From Master Switch.
- 2 - Hot Feed Single Switch
- 3 - Up Motor Term.
- 4 - Down Motor Term.
- 5 - Hot Feed
- 6 - Hot Feed Or Ground From Master Switch.

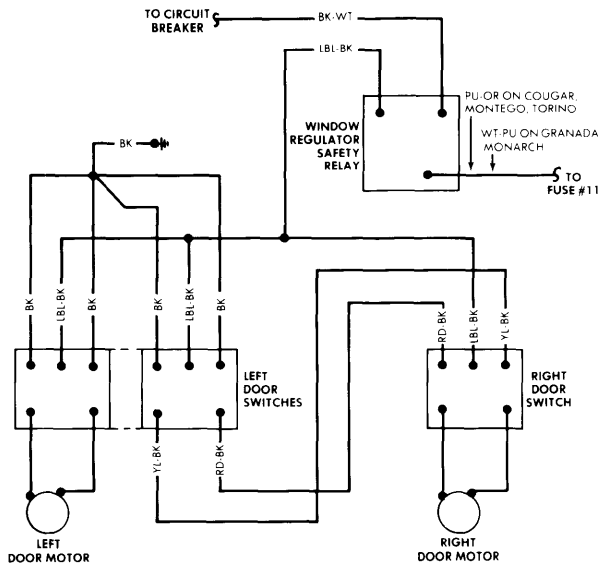
4FO02

POWER WINDOW SINGLE SWITCH PIN CONNECTIONS & NUMBERS



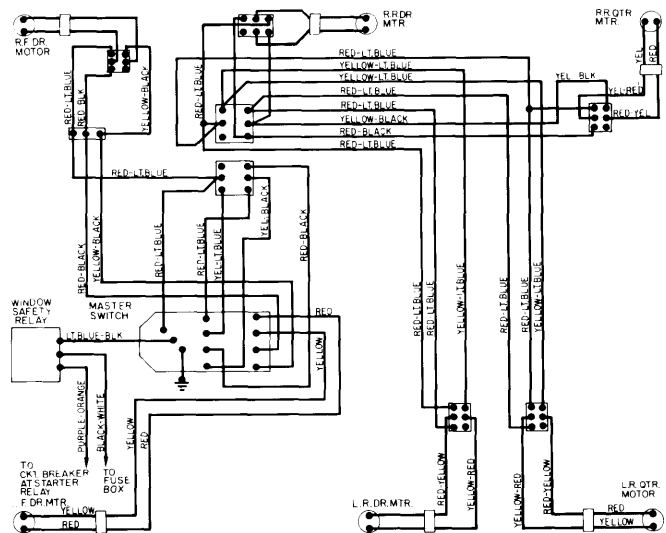
5FO02

GRANADA, MONARCH, TORINO & MONTEGO 4DR. POWER WINDOW WIRING



5FO01

GRANADA, MONARCH, TORINO, MONTEGO, ELITE & COUGAR 2DR. POWER WINDOW WIRING



1F9024

FORD & MERCURY POWER WINDOW WIRING

