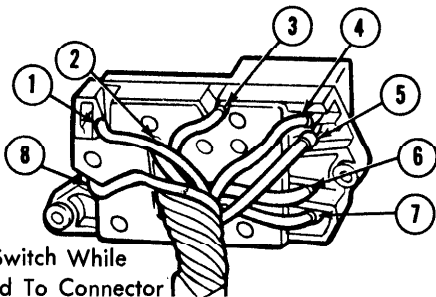


## FORD MOTOR CO. 6-WAY

Thunderbird, Cougar XR-7  
Ford, Mercury  
Continental, Mark VI

### DESCRIPTION & OPERATION

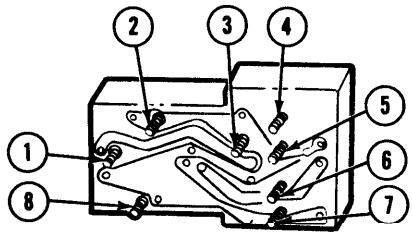
The 6-way power seat provides horizontal, vertical, and vertical tilt adjustment. It consists of a reversible three armature motor, a switch and housing, vertical worm gear drives, and horizontal rack and pinion drives. Electrical circuit is protected by either a 20 or 30 amp circuit breaker located in the fuse panel. Horizontal and vertical drive units are serviced separately, but the three armature motor can only be replaced as an assembly. Flexible drive shafts are removed by removing hose clamps and can be serviced individually.



Test Switch While Attached To Connector

Switch Positions				
4-WAY KNOB	REAR TILT	FRONT TILT	POWER ①	GROUND ①
NEUT.	NEUT.	NEUT.	3 ONLY	1-2-4-5-6-7
FOREWARD	NEUT.	NEUT.	2-3	1-4-5-6-7-8
REARWARD	NEUT.	NEUT.	3-8	1-2-4-5-6-7
UP	NEUT.	NEUT.	3-4-6	1-2-5-7-8
DOWN	NEUT.	NEUT.	3-5-7	1-2-4-6-8
NEUT.	UP	NEUT.	3-6	1-2-4-5-7-8
NEUT.	DOWN	NEUT.	3-7	1-2-4-5-6-8
NEUT.	NEUT.	UP	3-4	1-2-5-6-7-8
NEUT.	NEUT.	DOWN	3-5	1-2-4-6-7-8

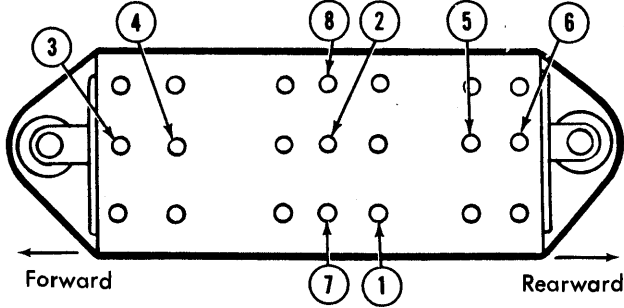
Use Self-Powered Test Light Or Ohmmeter



Switch Positions			
4-WAY KNOB	REAR TILT	FRONT TILT	CONTINUITY
NEUT.	NEUT.	NEUT.	1-2-4-5-6-7-8, 3 ISOLATED
FOREWARD	NEUT.	NEUT.	2-3, 1-4-5-6-7-8
REARWARD	NEUT.	NEUT.	3-8, 1-2-4-5-6-7
UP	NEUT.	NEUT.	3-4-6, 1-2-5-7-8
DOWN	NEUT.	NEUT.	3-5-7, 1-2-4-6-8
NEUT.	UP	NEUT.	3-6, 1-2-4-5-7-8
NEUT.	DOWN	NEUT.	3-7, 1-2-4-5-6-8
NEUT.	NEUT.	UP	3-4, 1-2-5-6-7-8
NEUT.	NEUT.	DOWN	3-5, 1-2-4-6-7-8

① — Terminal No. 1 is always grounded and terminal No. 3 is always power feed.

Fig. 1 Terminals Identification and Switch Test for Arm Rest Mounted Switches



Forward Rearward

Switch Positions ①			
4-WAY KNOB	REAR TILT	FRONT TILT	CONTINUITY
NEUT. (DEAD)	NEUT. (DEAD)	NEUT. (DEAD)	2-3-4-5-6-7-8, 1 ISOLATED
FORWARD	NEUT. (DEAD)	NEUT. (DEAD)	1-7, 2-3-4-5-6-8
REARWARD	NEUT. (DEAD)	NEUT. (DEAD)	1-8, 2-3-4-5-6-7
UP	NEUT. (DEAD)	NEUT. (DEAD)	1-4-6, 2-3-5-7-8
DOWN	NEUT. (DEAD)	NEUT. (DEAD)	1-3-5, 2-4-6-7-8
NEUT. (DEAD)	UP	NEUT. (DEAD)	1-6, 2-3-4-5-7-8
NEUT. (DEAD)	DOWN	NEUT. (DEAD)	1-5, 2-3-4-6-7-8
NEUT. (DEAD)	NEUT. (DEAD)	UP	1-4, 2-3-5-6-7-8
NEUT. (DEAD)	NEUT. (DEAD)	DOWN	1-3, 2-4-5-6-7-8

① — Disconnect switch from wiring harness and check with test lamp or ohmmeter.

Fig. 2 Terminal Identification and Switch Tests for Seat Mounted Switches

### TESTING

#### NO SEAT MOVEMENT

The following checks can help isolate a defective component. Make checks in the sequence indicated.

- 1) Check circuit breaker feed and "out" side, then check circuit continuity from breaker to seat control switch.
- 2) Check connector and harness from control switch to motor. Check motor for a good ground connection.
- 3) Check for dirty or binding seat tracks and mechanical components.

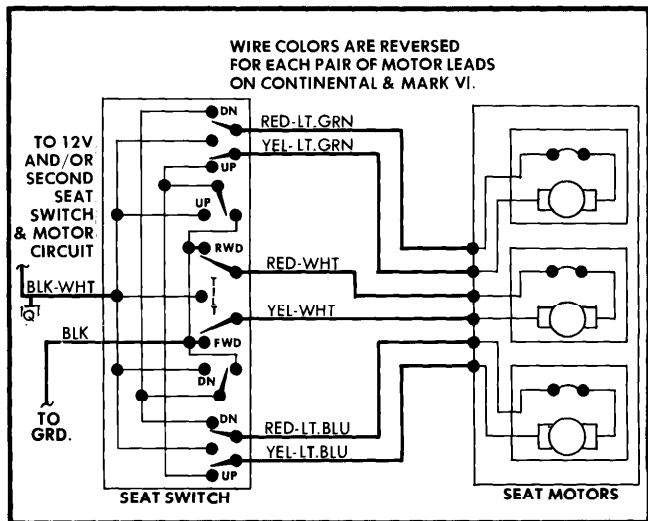
#### SOME SEAT MOVEMENT

If the seat will adjust in one or more directions but not in all, current is available at control switch. Test for problems as indicated.

- 1) Test control switch for current "out" in each of the switch positions, using test charts provided. Wiggle the switch in each position to check for intermittent contact. Check wiring for continuity from control switch to motor.
- 2) Check for proper ground circuit at motor and seat assembly. Check each motor for rotation in both directions as current is applied to motor terminals. If any motor does not function, the entire motor assembly must be replaced.

# Power Seats

## FORD MOTOR CO. 6-WAY (Cont.)



**Fig. 3 6-Way Power Seat Wiring Diagram**  
Two Switches and Motors Used with Split Seats

### REMOVAL & INSTALLATION

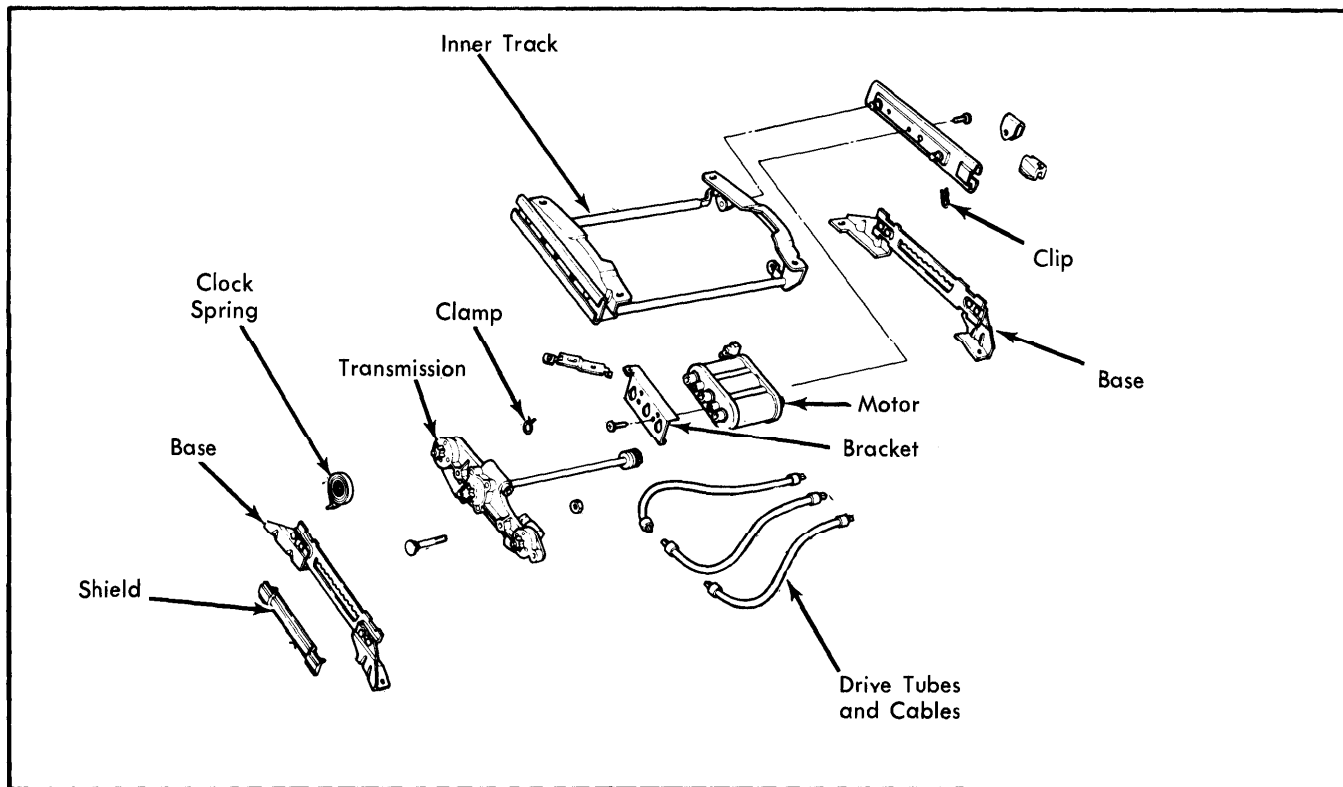
#### SEAT TRACK & MOTOR

**Removal** – 1) Remove nuts or bolts retaining seat track to floor pan. Lift seat and detach motor wires. Remove 2 bolts attaching seat belts to floor and disconnect wiring connector.

2) Remove seat assembly from vehicle. Remove shields from end of cushion (if equipped) and remove bolts attaching track to seat frame.

3) Remove 3 motor-to-bracket bolts. Remove clamps retaining drive cables to seat tracks. Open wire restraining straps, and remove motor and cables from seat track assembly. Remove cable retaining brackets and drive cables from motor.

**Installation** – To install, reverse removal procedure, and check operation of seat in all directions.



**Fig. 4 Exploded View of 6-Way Power Seat (Split Bench Shown)**  
Bench Seat Uses 2 Transmission Assemblies