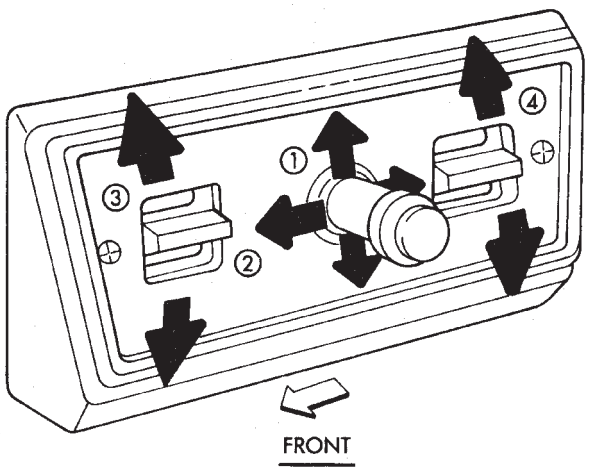
POWER SEATS

CONTENTS

GENERAL

The power seat can be adjusted in 6 different directions (Fig. 1). The control switch is on the lower outboard side of the seat.

The front lever on the switch raises or lowers (tilts) the front of the seat cushion. The center lever raises or lowers the complete seat by moving the switch up or down. The center lever also moves the seat forward or rearward by moving the switch forward or rearward. The rear lever raises or lowers (tilts) the back of the seat cushion.



1. SEAT UP AND DOWN
2. SEAT FORWARD AND REARWARD
3. SEAT TILT (FRONT UP AND DOWN)
4. SEAT TILT (REAR UP AND DOWN)

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Fig. 1 Power Seat Switch

There are 3 reversible motors that operate the power seat. The front and rear of the seat are operated by different motors. They can be raised or lowered independently of each other. Moving the center position seat switch to either the UP or DOWN position, runs both the front and rear motors at the same time.

The forward-rearward motor is operated by the center position seat switch. When the switch is held in the FORWARD position, battery voltage is applied through the switch contacts to pin S3 and the forward-rearward motor. The motor is grounded through pin S4 and the contacts of the back switch to pin 2 and to ground. The motor runs to drive the seat forward until the switch is released.

With the switch in the REAR position, pin S4 receives battery voltage and pin S3 is grounded. This reversed polarity causes the motor to run in the opposite direction and drive the seat backward.

The front motor works in a similar way when the front height switch is operated.

To raise the entire seat, the center position seat switch is held in the UP position. This applies battery voltage to both pins S1 and S5 and the front and rear motors. Pins S2 and S6 are grounded through the down switches and the lower switch. Both motors run to drive the entire seat up. A similar action occurs to move the entire seat down.

Each motor contains a self-resetting circuit breaker to protect it from overload. Consecutive or frequent resetting must not be allowed to continue. Make necessary repairs.

DIAGNOSIS

Refer to Group 8W-Wiring Diagrams for a complete circuit diagram.

Before any testing is attempted the battery should be fully charged and all connections and pins cleaned and tightened to insure proper continuity and grounds.

With the dome light on, apply switch in direction of the failure. If the dome light dims, the seat may be jamming. Check for binding. If the dome light does not dim, then proceed with the following electrical tests.

SEAT MOTOR ASSEMBLY

- Position seat switch to move all 3 seat motors. The seat should move in all directions. If not, go to No Seat Motors Operate. If one or more motors operate, refer to switch testing.

Test seat switch. If OK, replace defective motor.

NO SEAT MOTORS OPERATE

Circuit breaker installed.

- Probe 30 amp circuit breaker, cavity #16 on fuse panel. If battery voltage is present, replace circuit breaker.

• Remove switch mounting screws and measure voltage at red wire at switch. Meter should read battery voltage. If not, repair open to circuit breaker.
• Measure resistance at black wire at switch. Meter should read zero ohms. If OK, replace switch. If not, repair open to ground.

SWITCH TESTING

POWER SEAT MOTOR REPLACEMENT

(1) Disconnect power seat wire harness at motor.
(2) Remove bolts attaching seat frame to floor pan and remove seat.
(3) Disconnect motor ground wire.

CAUTION: Take care to avoid excessive bending of the 3 drive cables when removing/installing the motor assembly.

(4) Remove screws attaching motor assembly to seat frame and remove motor assembly and mounting spacers (Fig. 3).

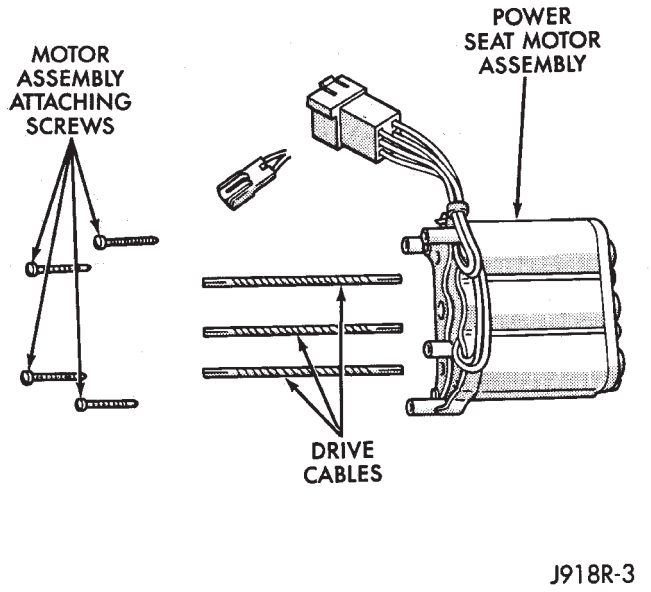


Fig. 3 Power Seat Motor Assembly

(5) To install power seat motor, reverse the removal procedures. *DRIVER SIDE*

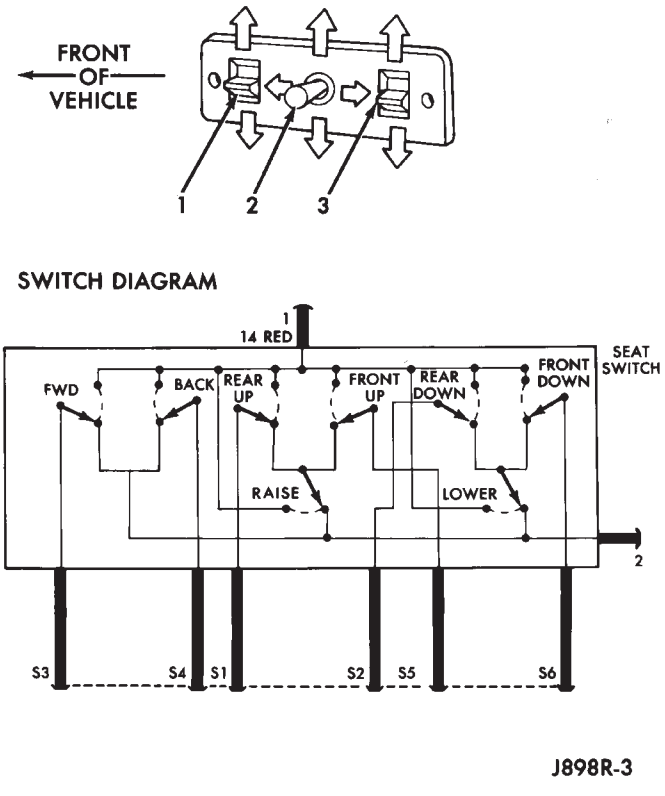
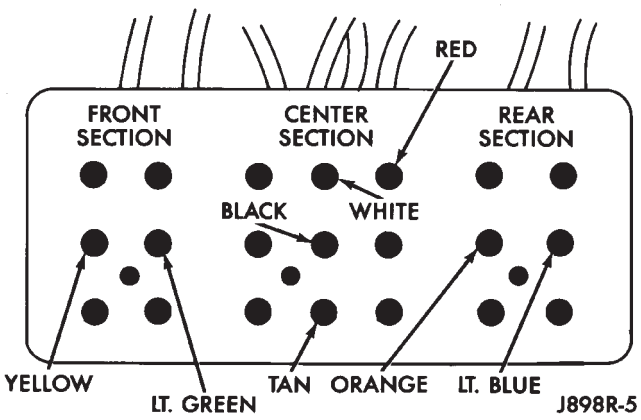


Fig. 2 Switch Diagram



SWITCH TEST
SWITCHES 1, 2 AND 3 (GROUNDS)

SWITCH POSITION	TERMINALS	ZERO OHMS
OFF (NORMAL)	2 AND: S1, S2, S3, S4, S5 AND S6	YES
	1 AND 2	NO

SWITCH TEST
SWITCH 1

SWITCH POSITION	TERMINALS	ZERO OHMS
UP (FRONT)	1 AND S5	YES
DOWN (FRONT)	1 AND S6	YES

SWITCH TEST
SWITCH 2

SWITCH POSITION	TERMINALS	ZERO OHMS
UP (RAISE)	1 AND S1	YES
	1 AND S5	YES
DOWN (LOWER)	1 AND S2	YES
	1 AND S6	YES
FORWARD (FWD)	1 AND S3	YES
BACKWARD (BACK)	1 AND S4	YES

SWITCH TEST
SWITCH 3

SWITCH POSITION	TERMINALS	ZERO OHMS
UP (REAR)	1 AND S1	YES
DOWN (REAR)	1 AND S2	YES

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