

Flowchart No. 8

NOTE: All connector views are from wire side of female terminals.

Steering Column Switch (Extend-retract)

Check for voltage between the column control unit 16P connector B13 and B16 terminals with the extend switch pushed.

Check for voltage between the column control unit 16P connector B5 and B16 terminals with the retract switch pushed. There should be 1 V or less with the switch pushed and 4 V or more with the switch in the neutral position.

Are voltages as specified?

NO

- Open or short in the wires
- Faulty steering column switch
- Faulty column control unit

YES

Extend-retract Motor:

Disconnect the 2P connector from the steering column extend-retract motor.

Check for voltage between the extend-retract motor 2P connector No. 2 terminal and body ground with the extend switch pushed. Check for voltage between the extend-retract motor 2P connector No. 1 terminal and body ground with the retract switch pushed. There should be 10 V or more with the switch pushed and 1 V or less with the switch in the neutral position.

Are voltages as specified?

NO

- Open or short in the wires
- Faulty steering column switch
- Faulty column control unit

YES

Test the steering column extend-retract motor (see page 23-226).

Does the motor run smoothly and without noise?

NO

Replace the steering column extend-retract motor.

YES

Check for voltage between the column control unit 16P connector B9 and B10 terminals. There should be 2.5 V or more with the steering column in fully extended position and 2.5 V or less with the steering column in fully retracted position.
NOTE: All column control unit connectors must be connected.

Are voltages as specified?

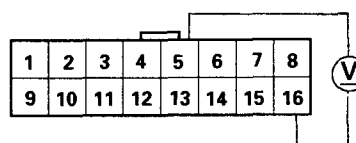
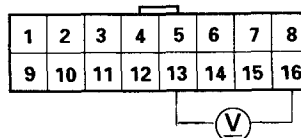
NO

- Open or short in the PNK or BRN wires
- Faulty extend-retract position sensor
- Faulty column control unit

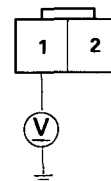
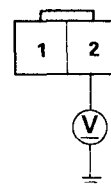
YES

Substitute a known-good column control unit, and recheck. If the systems now work OK, replace the original column control unit.

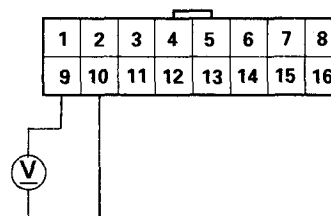
COLUMN CONTROL UNIT 16P CONNECTOR "B"



EXTEND-RETRACT MOTOR 2P CONNECTOR



COLUMN CONTROL UNIT 16P CONNECTOR "B"



(cont'd)