

Troubleshooting Flowchart — Transmission Range (A/T Gear Position) Switch (Short)

- OBD II Scan Tool indicates Code P1705.
- Self-diagnosis indicator light blinks five times.

Possible Cause

- Short in transmission range switch wire
- Faulty transmission range switch

NOTE: Code P1705 (5) is caused when the PCM receives two gear position inputs at the same time.

Observe the A/T Gear Position Indicator:

1. Turn the ignition switch ON (II).
2. Observe the A/T gear position indicator, and shift each position separately.

Does any indicator stay on when the shift lever is not in that position?

NO

The system is OK at this time. Check the wire harness for damage.

YES

Disconnect the transmission range switch connector.

Do all gear position indicators go out?

YES

Replace the transmission range switch.

NO

Measure ATP R Voltage:

1. Shift to all positions other than .
2. Measure the voltage between the E7 and A26 terminals.

Is there approx. 10 V?

NO

Check for short in the wire between the E7 terminal and the transmission range switch or A/T gear position indicator. If wire is OK, check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.

YES

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PCM CONNECTORS

A (26P)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

LG1 (BRN/BLK)



ATP R (WHT)

E (26P)

1	2	3	4	5	(6)	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

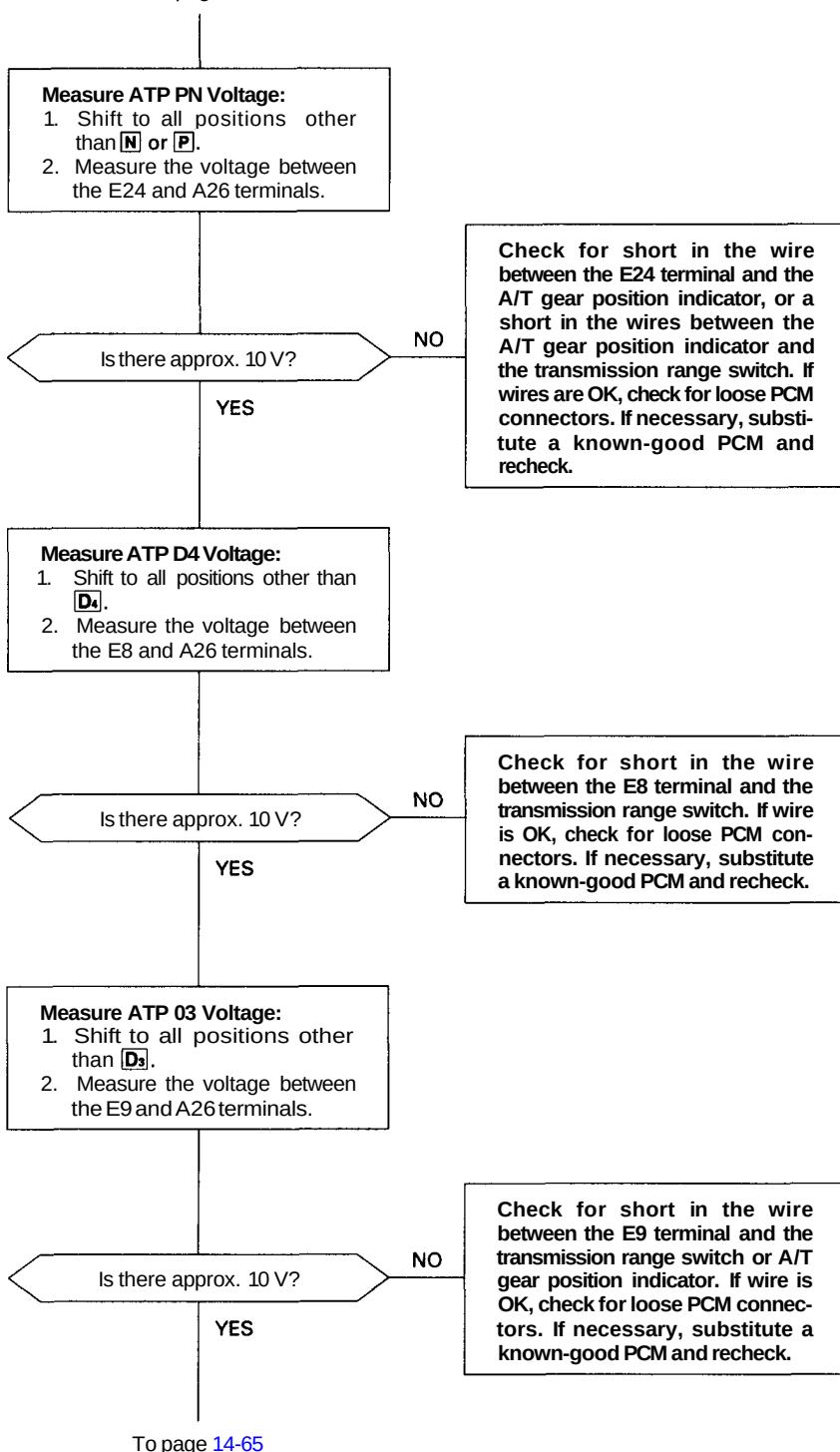
Wire side of female terminals

(cont'd)

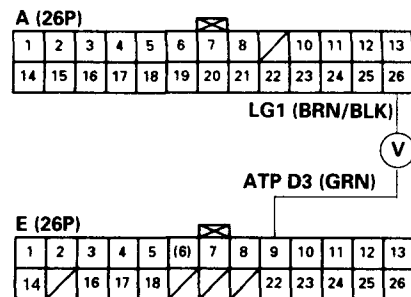
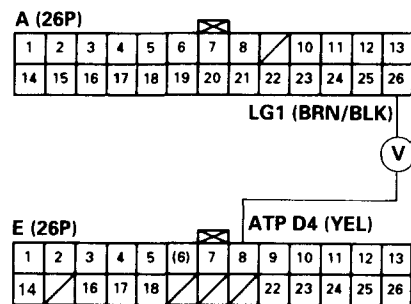
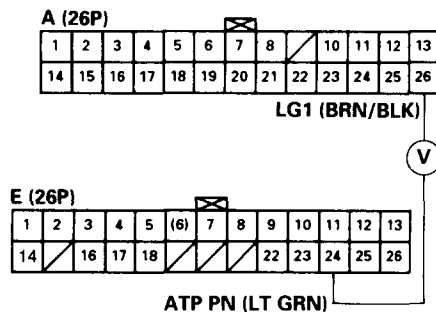
Electrical Troubleshooting

Troubleshooting Flowchart — Transmission Range (A/T Gear Position) Switch (Short) (cont'd)

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PCM CONNECTORS





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Measure ATP 2 Voltage:

1. Shift to all positions other than **2**.
2. Measure the voltage between the E10 and A26 terminals.

Is there approx. 10 V?

NO

Check for short in the wire between the E10 terminal and the transmission range switch or A/T gear position indicator. If wire is OK, check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.

YES

Measure ATP 1 Voltage:

1. Shift to all positions other than **1**.
2. Measure the voltage between the E11 and A26 terminals.

Is there approx. 10 V?

NO

Check for short in the wire between the E11 terminal and the transmission range switch or A/T gear position indicator. If wire is OK, check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.

YES

Check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.

PCM CONNECTORS**A (26P)**

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

LG1 (BRN/BLK)



ATP 2 (BLU)

E (26P)

1	2	3	4	5	(6)	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

Wire side of female terminals

A (26P)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

LG1 (BRN/BLK)



ATP1 (BRN)

E (26P)

1	2	3	4	5	(6)	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26