Electrical Troubleshooting ('96 - 98 Models)

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

NOTE: Record all freeze data before you troubleshoot.

- **OBD II Scan Tool indicates Code P1705.**
- **Self-diagnosis D4 indicator light blinks five times.**

Possible Cause
• Short in A/T gear position switch wire • Faulty A/T gear position 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 to each position.

Do any indicators stay on when the shift lever is not in those positions?

NO → **The system is OK at this time. Check the wire harness for damage.**

YES

Measure ATP R Voltage:
1. Shift to all positions other than R.
2. Measure the voltage between the B16 and A9 or A22 terminals.

Is there battery voltage?

NO → **Check for short in the wire between the B16 terminal and the A/T gear position 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 NP Voltage:
1. Shift to all positions other than N or P.
2. Measure the voltage between the B25 and A9 or A22 terminals.

Is there battery voltage?

NO → **Check for short in the wire between the B25 terminal and the A/T gear position indicator, or a short in the wires between the A/T gear position indicator and the A/T gear position switch. If wires are OK, check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.**

YES

Measure ATP D4 Voltage:
1. Shift to all positions other than D4.
2. Measure the voltage between the B24 and A9 or A22 terminals.

Is there approx. 5 V?

NO → **Check for short in the wire between the B24 terminal and the A/T gear position switch. If wire is OK, check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.**

YES

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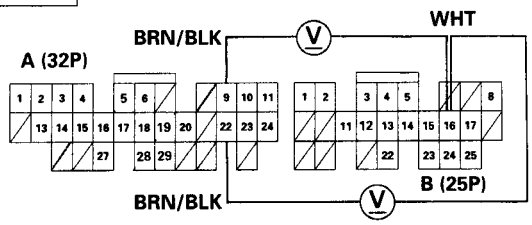
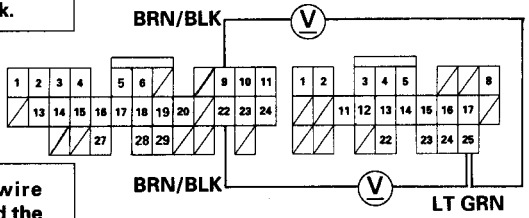
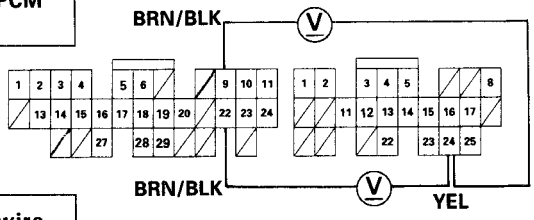
PCM CONNECTORS



Wire side of female terminals





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Measure ATP D3 Voltage:
1. Shift to all positions other than D3.
2. Measure the voltage between the B8 and A9 or A22 terminals.

Is there battery voltage?

NO

Check for short in the wire between the B8 terminal and the A/T gear position 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 ATP2 Voltage:
1. Shift to all positions other than 2.
2. Measure the voltage between the B17 and A9 or A22 terminals.

Is there battery voltage?

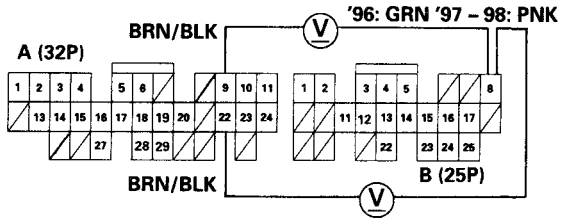
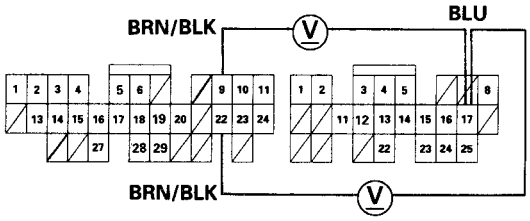
NO

Check for short in the wire between the B17 terminal and the A/T gear position 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



Wire side of female terminals