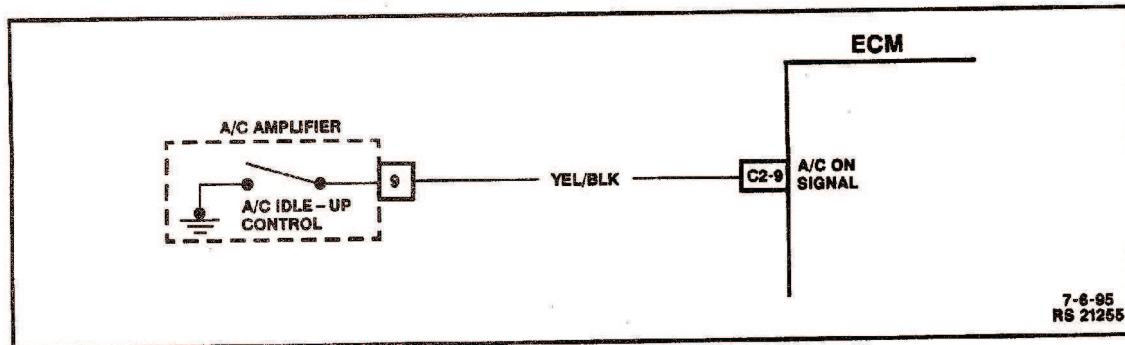


Table C-1B - A/C Idle-Up Circuit Check



Circuit Description

This signal is sent from the A/C amplifier. The Engine Control Module (ECM) detects whether or not the A/C system is operating via the A/C amplifier. The extra load the A/C system demands from the engine requires a higher idle speed. When the ECM receives the A/C "ON" signal, it will activate the Idle Air Control (IAC) valve and the idle speed will increase.

Diagnostic Aids

An intermittent malfunction may be caused by a poor connection, rubbed through wire insulation or a wire broken inside the insulation. Inspect harness connectors for backed out terminals, improper mating, broken locks, improperly formed or damaged terminals and poor terminal-to-wire connections before component replacement.

Test Description

Number(s) below refer to the step number(s) on the Diagnostic Table.

2. This checks for an open or short to ground in YEL/BLK wire, or a faulty ECM.
3. This checks for a faulty ECM or for a faulty A/C amplifier.

Driveability and Emissions 1.6L (VIN 6) 6E3-C1-15

Table C-2A - A/C Idle-Up Circuit Check

Step	Action	Value(s)	Yes	No
1	Was the "On-Board Diagnostic (OBD) System Check" performed?	—	Go to Step 2	Go to <i>OBD System Check</i>
2	1. Ignition "OFF." 2. Disconnect A/C amplifier connector. 3. Ignition "ON." 4. Using a DVM, measure voltage from A/C amplifier connector cavity 9. Does DVM read within specified value?	B+	Go to Step 3	Go to Step 4
3	1. Ignition "OFF." 2. Reconnect A/C amplifier connector. 3. Start engine. 4. Press A/C switch to "ON" and move blower speed selector switch to any position expect "OFF." 5. Using a DVM, backprobe A/C amplifier connector cavity 9. 6. Measure voltage. Does DVM read within specified value?	0V	System OK	Go to Step 5
4	1. Check for an open or short in the A/C "ON" signal between A/C amplifier and ECM. 2. Repair as necessary. Was a repair necessary?	—	Go to Step 7	Go to Step 6
5	Replace A/C amplifier. Is action complete?	—	Go to Step 7	—
6	Replace ECM. Is action complete?	—	Go to Step 7	—
7	Operate vehicle within the conditions under which the original symptom was noted. Does the system now operate properly?	—	System OK	Refer To <i>Diagnostic Aids</i>