Service Codes	Quick Test Mode
81—IAS circuit failure	0
81—Air management 2 circuit failure	0
82—Air management 1 circuit failure	0
82—Supercharger bypass circuit failure	0
83—High speed electro drive fan circuit failure	0
83—Low speed fuel pump circuit failure	0/0
84—EGR vacuum solenoid circuit failure	0
84—EGR vacuum regulator circuit failure	0/R
85—Canister purge circuit failure	0/R
85—Canister purge solenoid circuit failure	0
85—Adaptive fuel lean limit reached	l c
86-3-4 shift solenoid circuit failure	1 0
86—Adaptive fuel rich limit reached	l c
87—Fuel pump primary circuit failure	0/0
87—Fuel pump primary circuit failure	0/C/R
87—Fuel pump primary circuit failure	1 0
88—Electro drive fan circuit failure	lo
89—Converter clutch override circuit failure	Ō
89—Lock-up solenoid circuit failure	lō
91—HEGO sensor indicates system lean	l R
91—No HEGO switching detected	R
92—HEGO sensor indicates system rich	R
93—TP sensor input low at maximum motor travel	lö
94—Thermactor air system inoperative-left side	R
95—Fuel pump secondary circuit failure—ECA to ground	0/0
96—Fuel pump secondary circuit failure—Battery to ECA	0/0
96—High speed fuel pump circuit open	0/0
98—Hard fault present	R
99—EEC has not learned to control idle: ignore codes 12 & 13	R

Codes Not Listed: Do not apply to vehicle being tested

0—Key on, engine off test R—Key on, engine running test

-Continuous memory

① Front HEGO ② Right HEGO ② Left HEGO

@ Rear HEGO

93144G06

## EEC-IV trouble codes —(3 of 3)

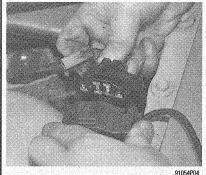


Fig. 70 Connect the scan tool to the DLC



Fig. 73 This PCM had a DTC 113 stored. Most scan tools will give a code definition on-screen as the Auto X-ray shown here informs what code 113 is for-the IAT sensor

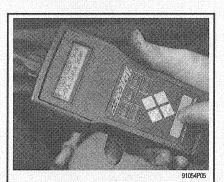


Fig. 71 The scan tool menu will be displayed, follow the instructions included with the scan tool



Fig. 74 If the A/C or Blower motor is left on, a code 539 will be tripped. Turn the A/C or blower motor off and retest

## Key On Engine Off (KOEO) Test > See Figures 70 thru 76

- 1. Connect the scan tool to the self-test connectors. Make certain the test button is unlatched or
- 2. Start the engine and run it until normal operating temperature is reached.
  - 3. Turn the engine **OFF** for 10 seconds.
  - Activate the test button on the STAR tester.
- 5. Turn the ignition switch ON but do not start the engine.
- 6. The KOEO codes will be transmitted. Six to nine seconds after the last KOEO code, a single separator pulse will be transmitted. Six to nine seconds after this pulse, the codes from the Continuous Memory will be transmitted.
- 7. Record all service codes displayed. Do not depress the throttle on gasoline engines during the

## Key On Engine Running (KOER) Test **b** See Figures 66, 75, and 77

- 1. Make certain the self-test button is released or de-activated on the STAR tester.
- 2. Start the engine and run it at 2000 rpm for two minutes. This action warms up the oxygen sen-
- 3. Turn the ignition switch OFF for 10 seconds.
- 4. Activate or latch the self-test button on the scan tool.
  - 5. Start the engine. The engine identification

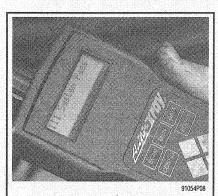


Fig. 72 This PCM had no DTC's stored and passed the KOEO

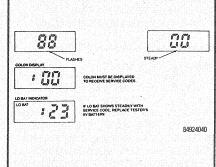


Fig. 75 STAR tester displays; note that the colon must be present before codes can be received