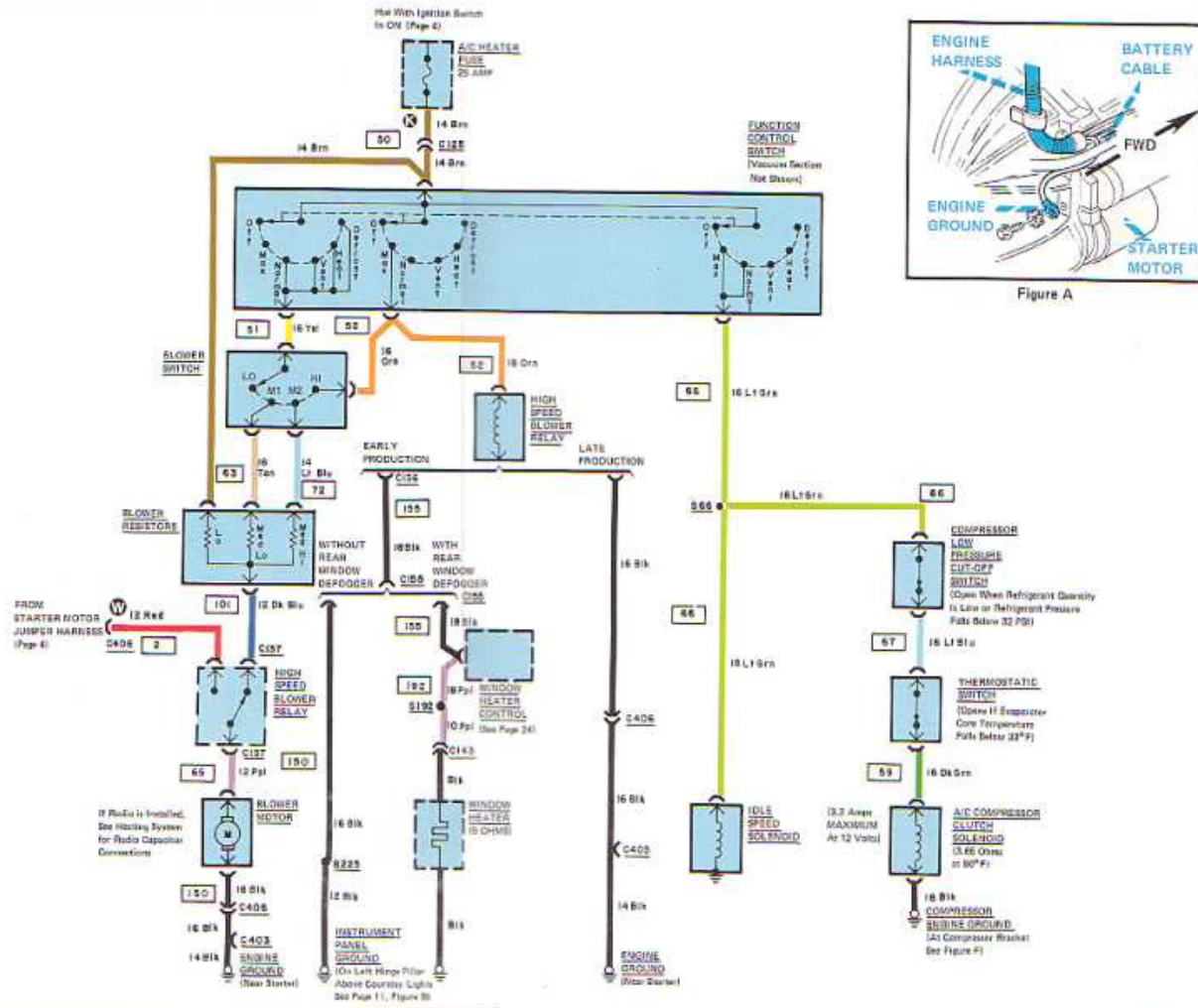


# TUNEDPORT78

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**CIRCUIT OPERATION**

**A/C - Heating**

The A/C - HEATER circuit is powered through the 25 amp A/C HEATER fuse. The FUNCTION CONTROL SWITCH provides power to the 4 speed BLOWER MOTOR in all positions except Off. In the Off position, a by-pass circuit operates the BLOWER MOTOR in Lo speed whenever the IGNITION KEY is in the On position.

When the REAR WINDOW DEFOGGER is On, the BLOWER MOTOR will not operate in High Speed. The HIGH SPEED BLOWER RELAY cannot energize when the REAR WINDOW DEFOGGER is on because 12 volts is applied to the ground side of the HIGH SPEED BLOWER RELAY by the 192 circuit.

When the FUNCTION CONTROL SWITCH is set to Max (Cool) the HIGH SPEED BLOWER RELAY is energized (circuit 52) and voltage is supplied directly to the BLOWER MOTOR regardless of the position of the BLOWER SWITCH. The BLOWER MOTOR also operates at high speed when the FUNCTION CONTROL SWITCH is set to Normal (Cool), Vent, Heat or Defrost and the BLOWER SWITCH is set to Hi.

The A/C CLUTCH is controlled by the FUNCTION CONTROL SWITCH, COMPRESSOR LOW PRESSURE CUT-OFF SWITCH. The FUNCTION CONTROL SWITCH causes compressor operation during Max and Normal air conditioning. The COMPRESSOR LOW PRESSURE CUT-OFF SWITCH is a normally closed safety switch that opens to prevent compressor operation if refrigerant pressure is lost. Operation without refrigerant can damage the compressor. The THERMOSTATIC SWITCH prevents ice buildup on the evaporator coil by opening below 33°F. The IDLE SPEED SOLENOID increases engine throttle setting whenever the A/C system is operating. The increased throttle setting results in constant engine idle RPM with or without A/C operation.

CHV-01-78-VF

**COMPONENT LOCATION**

A/C Compressor Clutch Solenoid	Figure F	Part of A/C clutch
Blower Motor	Figure C	A/C plenum
Blower Resistors	Figure C	A/C plenum
Blower Switch	Figure A	Part of A/C control
C103	Page 12, Figure C	Near anti theft hood switch
C125	Figure B	Left side console
C136	Figure C, II	High speed blower relay
C137	Figure C, H	High speed blower relay
C155		Attached to I/P harness in console
C403	Page 12, Figure C	Near Anti theft hood switch
C406	Page 5, Figure C	Top of plenum
Compressor Low Pressure Cut-Off Switch	Figure G	RH fender
Function Control Switch	Figure A	Console
HEATER A/C Fuse	Figure D	Fuse panel
High Speed Blower Relay	Figures C and II	Engine bulkhead bracket
Idle Speed Solenoid	Figure E	Top left side engine

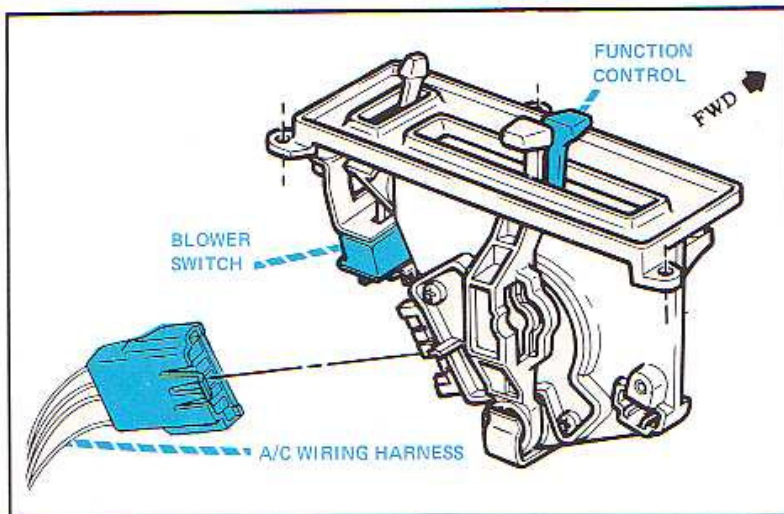


Figure A

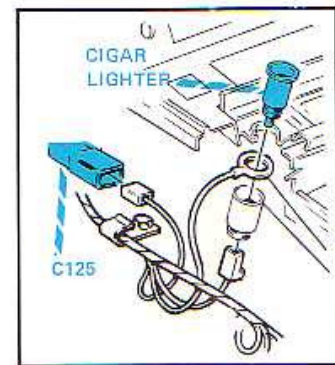


Figure B



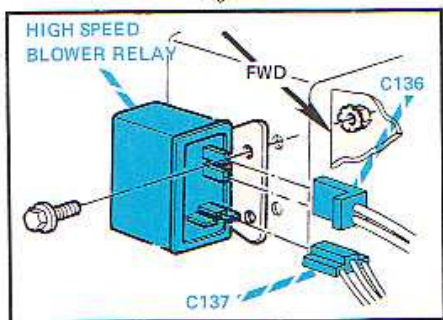


Figure H

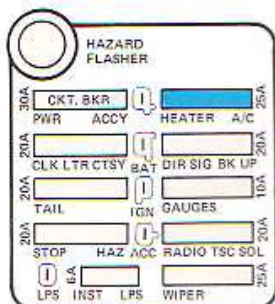


Figure D



Figure E

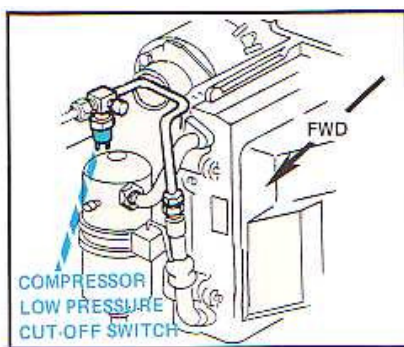


Figure G

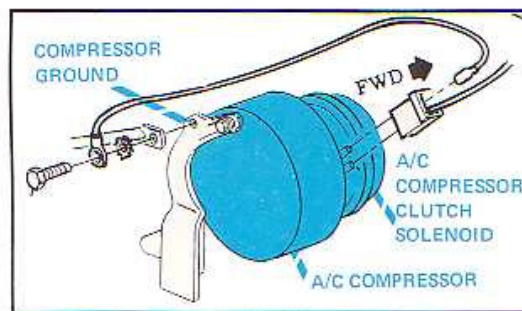


Figure F

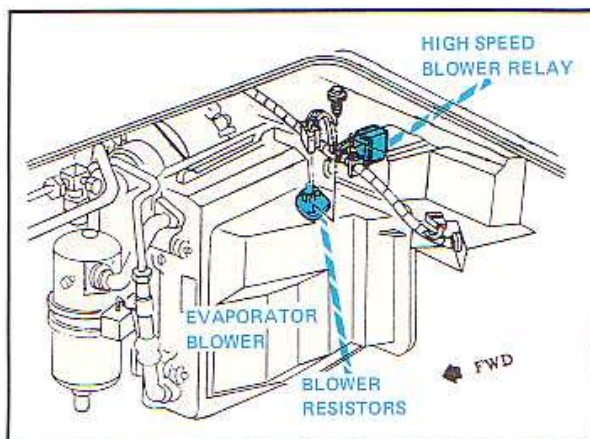


Figure C