Heating and Air Conditioning: All Technical Service Bulletins
A/C Odor at Start up in Humid Climates

File In Section: 1 - HVAC

Bulletin No.: 53-12-12A

Date: December, 1996

Subject:
Air Conditioning Odor at Start Up in Humid Climates
(Disinfect Evaporator Core, Install Delayed Blower Control Package)

Models:
1993-96 Passenger Cars (Except GEO)
1993-96 Light Duty Models (Except Tracker)

This bulletin is being revised to update the wiring diagrams, add the Corvette (with RPO C60) and delete medium/heavy duty trucks. Please discard Corporate Bulletin Number 53-12-12 (Section 1 - HVAC).

Condition

Some owners may comment on odors emitted from the air conditioning system, primarily at start up in hot, humid climates.

Cause

This odor may be the result of microbial growth on the evaporator core. When the blower motor fan is turned on, the microbial growth may release an unpleasant musty odor into the passenger compartment.

Correction

To remove odors of this type, it is necessary to eliminate the microbial growth and prevent its recurrence. To accomplish this, these two procedures must be completed.

^ Deodorize the evaporator core using Deodorizing Aerosol Kit, P/N 12377951 (AC Delco 15-102).

^ Install the new A/C Delayed Blower Control Package, P/N 12370470, (AC Delco 15-8632).

The blower control package will enable the blower to run at high speed for five (5) minutes. It will do so approximately fifty (50) minutes after the ignition has been turned off if the compressor had been engaged for four (4) or more minutes prior to shutting off engine. By doing so, the evaporator case and core are dried out, reducing the chances of a recurring A/C odor.

Procedure

1. Visually inspect the air conditioning evaporator drain hose for obstructions or working condition.

2. Apply deodorizing aerosol as described in the instructions supplied with the kit. Once the deodorizer has been applied, some of the mixture may overflow from the drain hose.

Vehicles	Deodorizing Procedure		Wiring Diagram	Relay	A/C Delayed Control Pkg
	Remove Blower Resistor	Alternative Procedure	Figure #	Required	Not Required
A Car	X		5		
B Car	X		6, 7		
C Car	X		8, 9, 10, 11, 12		
D Car	X		13, 14		
E Car	X	(A)	15		*(B)
F Car		Fig. 1, 2	16		
G Car	X		17		
H Car	X		9, 10, 11, 12		
J Car	X		18, 19	X(C)	
K Car	X	(A)	15		*(B)
K Special		(A)			*(B)
L Car	X		20		
N Car	X		21		
U Van	X		22		
V Car	X		23		
W Car	X		24		
Y Car			25		
C/K Truck		Fig. 3	26, 27	X	
S/T Truck	X		28		
M/L Van		Fig. 4	28		
G Van (1995)	X		28		

3. The chart identifies specific instructions for each vehicle. This chart will identify the proper deodorizing procedure, template and wiring diagram. Deodorizing the evaporator case can easily be done by removing the blower motor resistor and tape off opening. The nozzle can now be inserted through a pierced hole in the tape to deodorize the evaporator case. For some of the vehicles specified below, a drilling procedure is identified in the deodorizing instructions. This type of alternative procedure and others can be done by using the referenced templates in the chart.

4. Complete detailed installation instructions are supplied with the blower control package.

Important:

A. 1996 ONLY (Use blower resistor location for drilling procedure)

B. 1994-1996 ONLY

Refer to appropriate Service Manual for enabling afterblow feature through on-board diagnostics.

Description	P/N
Deodorizing Aerosol Kit - (Includes Instructions)	12377951 (AC 15-102)
A/C Delayed Blower Control Pkg. - (Includes Instructions, Label, Connectors)	12370470 (AC 15-8632)
Relay Kit - (Includes Connector with Leads)	12167112 (AC 15-8264)

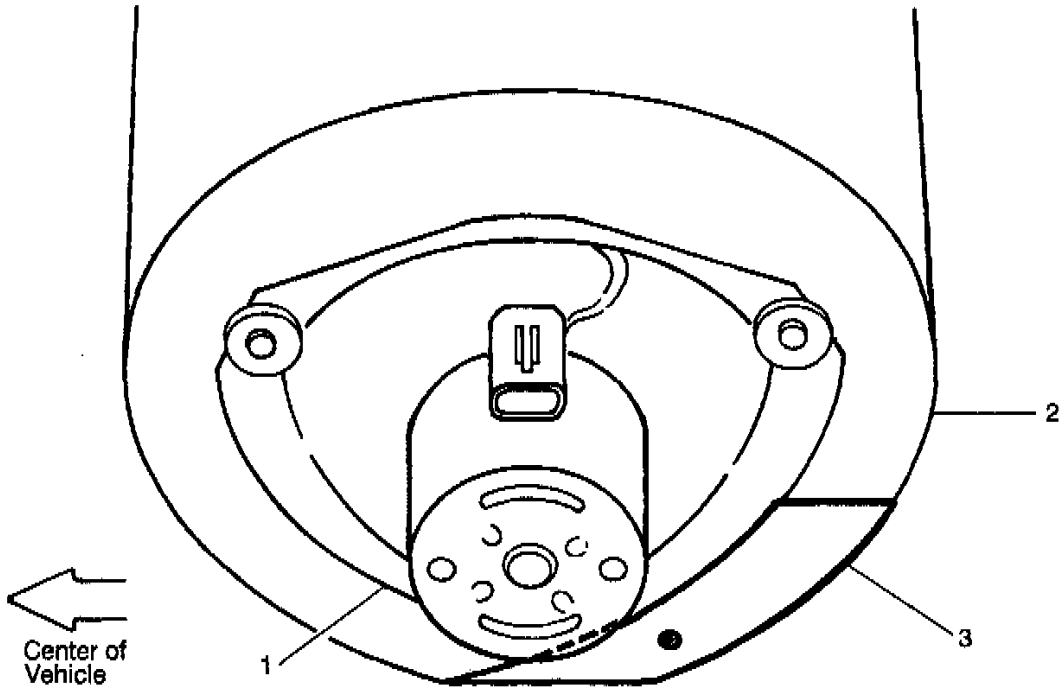
Parts Information

Parts are currently available from GMSPO.

Warranty Information

Labor Operation	Description	Labor Time
D3316	Deodorize/Install Delayed Blower Control Pkg.	1.2 hrs
Cadillac Only		
D3319	Clean/Deodorize	0.3 hr
D3318	Install Blower Control Package	0.4 hr
D3317	Enable Afterblow Mode (E,K,K Special, 1994-96 Only)	0.2 hr

For vehicles repaired under warranty, use as shown.



Legend

1. Blower Motor
2. HVAC Module
3. Template (Shown in Place)

Figure 1

Figure 1

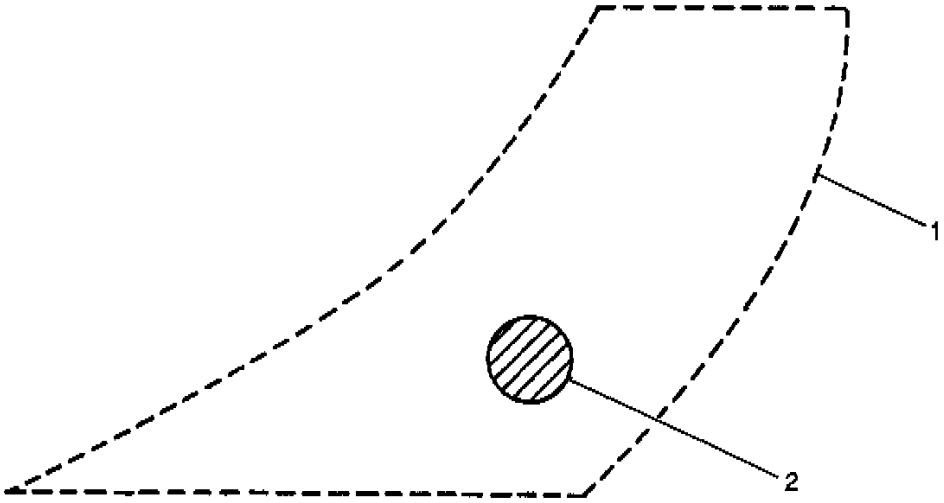


Figure 2

Legend

1. Cut template along dotted line and tape to blower motor housing.
2. Drill 3.0 mm (1/8 inch) hole within cross section area.

Figure 2

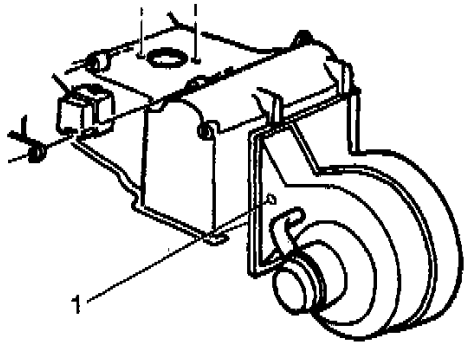


Figure 3

Legend

1. Drill a 3.0 mm (1/8 inch) hole.

Figure 3

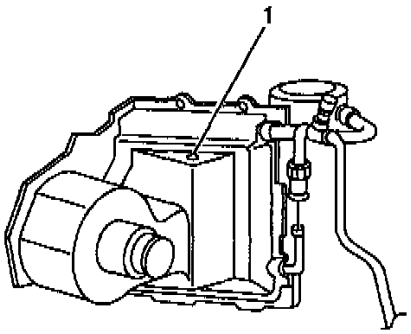


Figure 4

Legend

1. Drill a 3.0 mm (1/8 inch) hole.

Figure 4

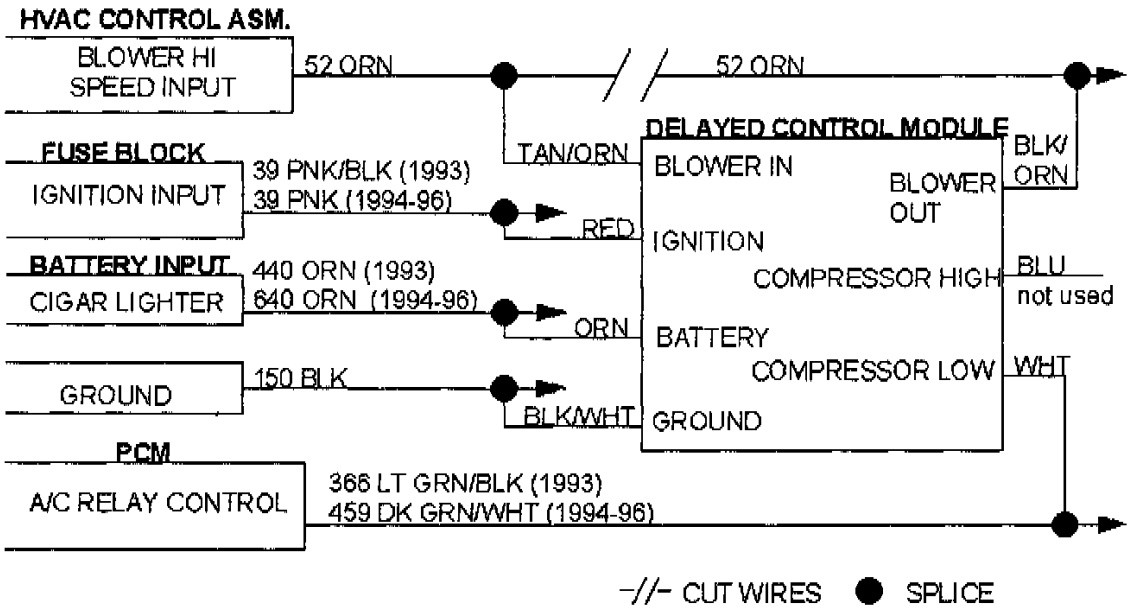


Figure 5

Figure 5

1993 B CAR

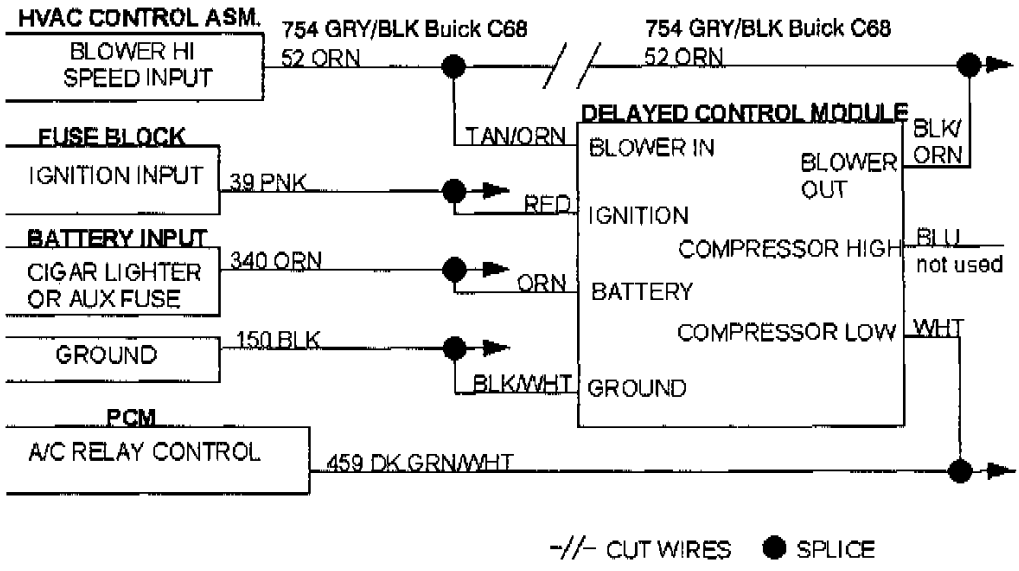


Figure 6

Figure 6

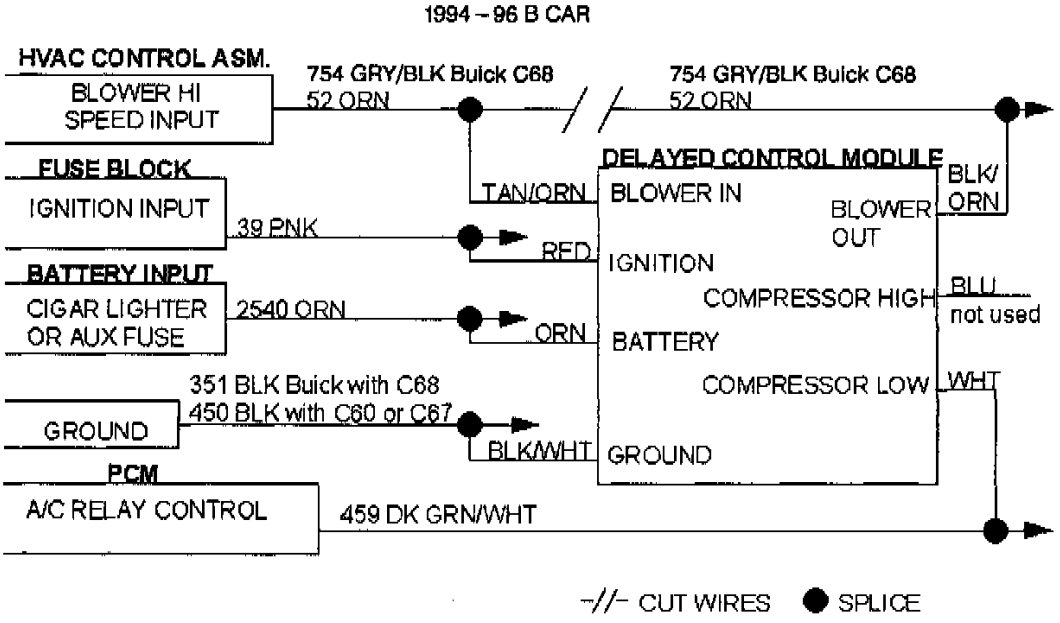


Figure 7

Figure 7

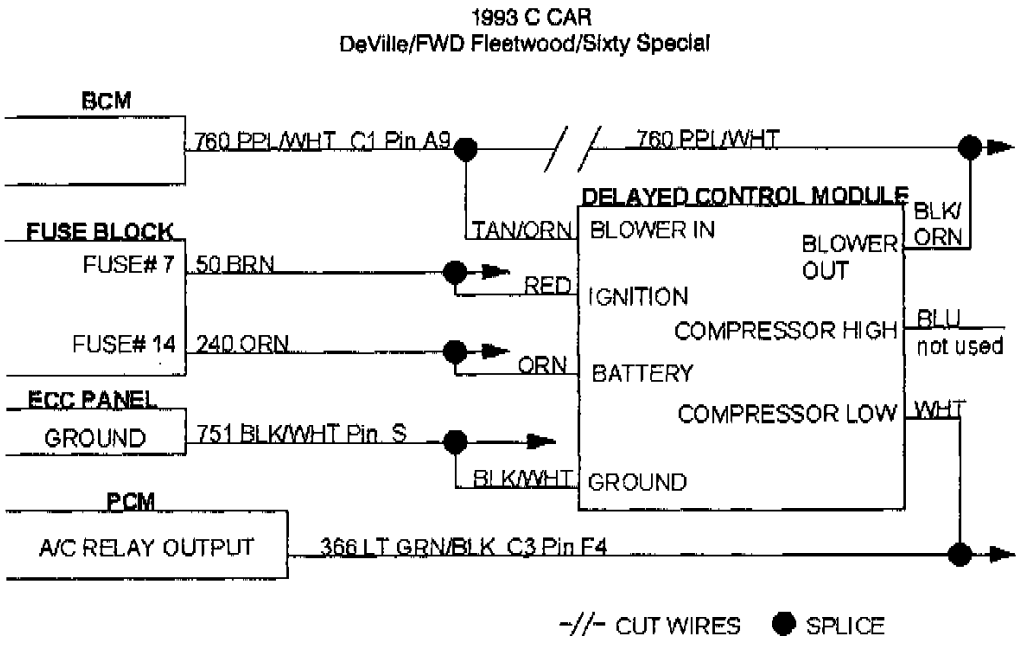


Figure 8

Figure 8

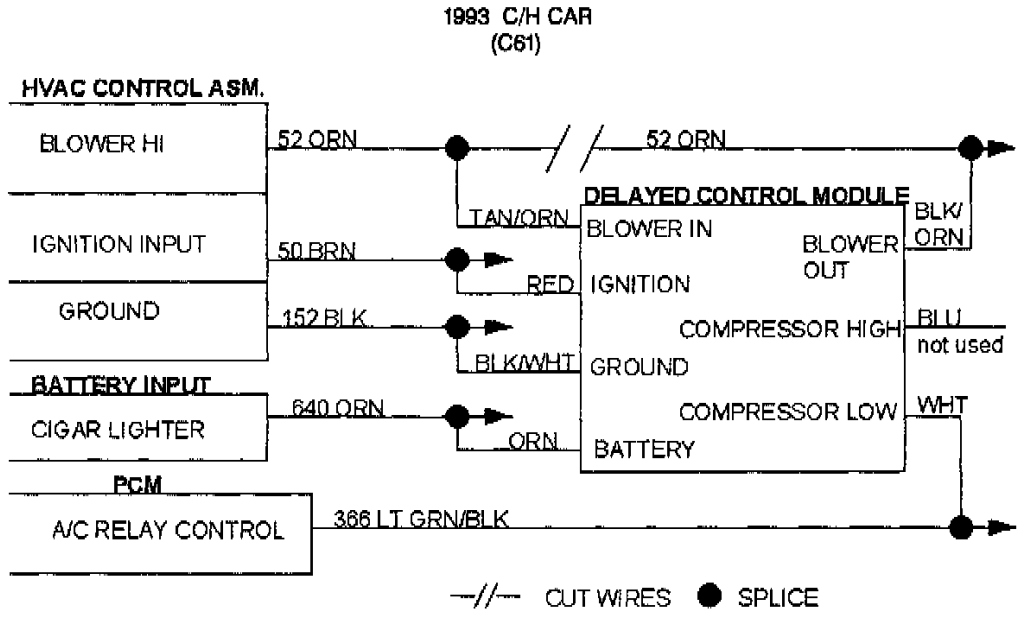


Figure 9

Figure 9

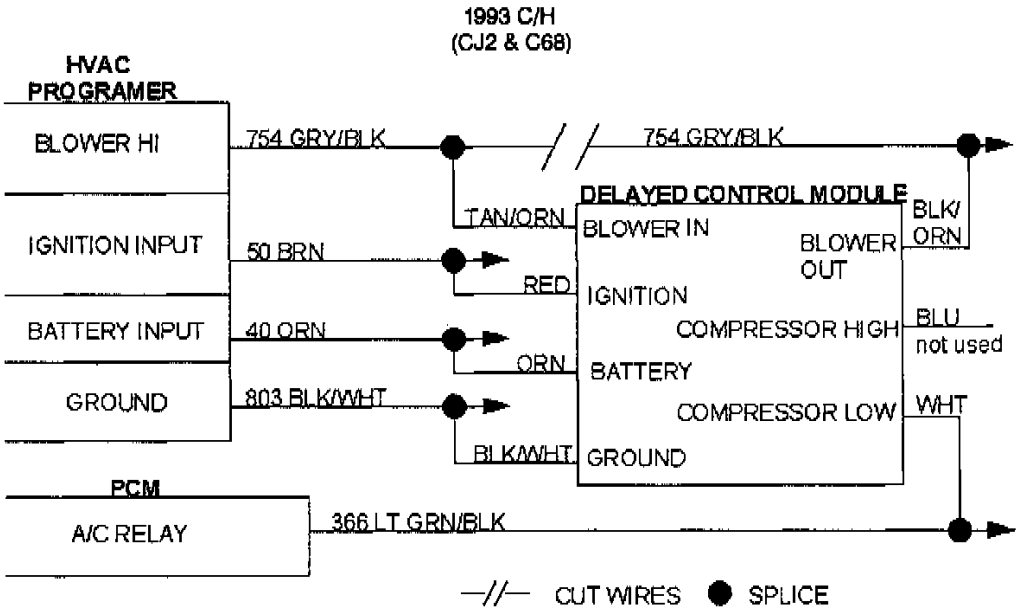


Figure 10

Figure 10

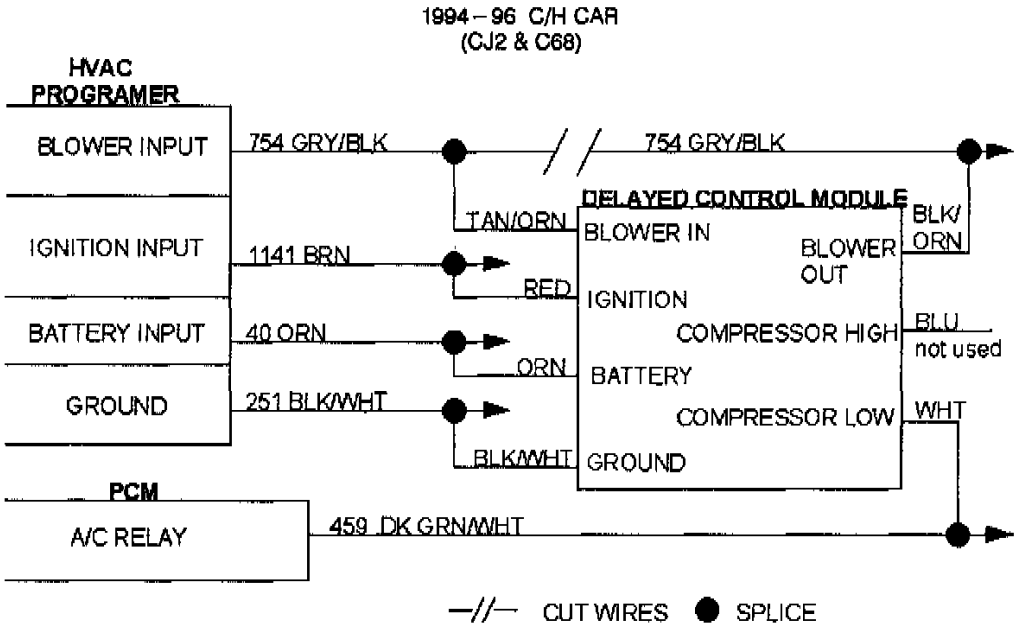


Figure 11

Figure 11

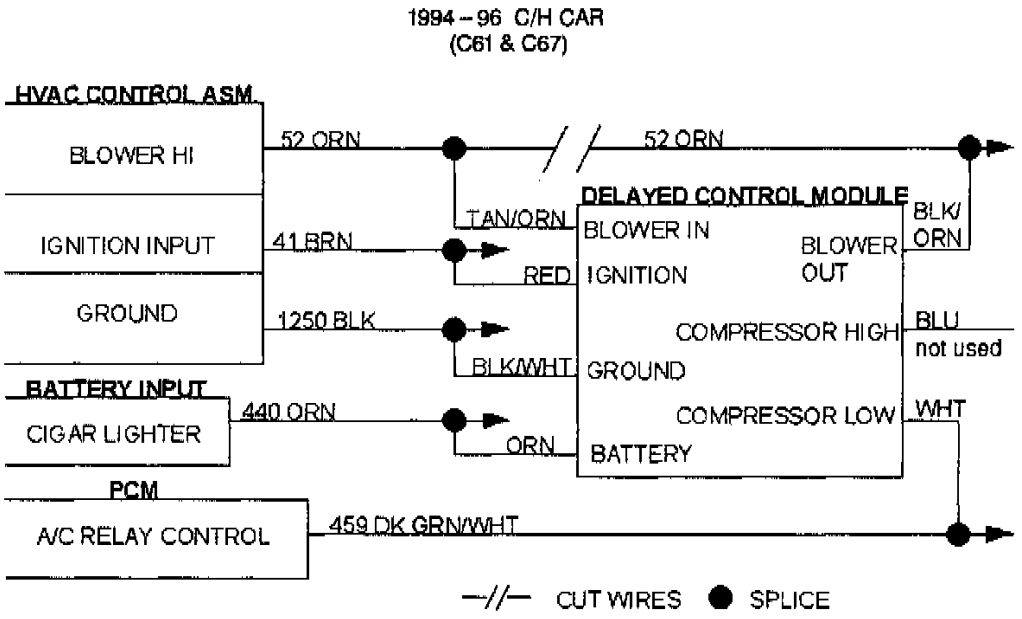


Figure 12

Figure 12

1993 D CAR

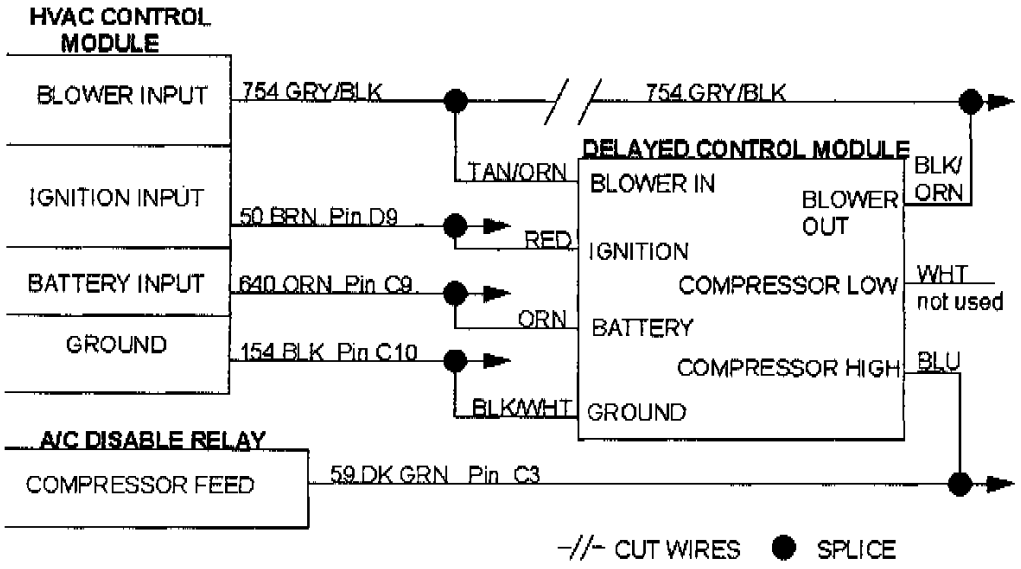


Figure 13

Figure 13

1994 - 96 D CAR

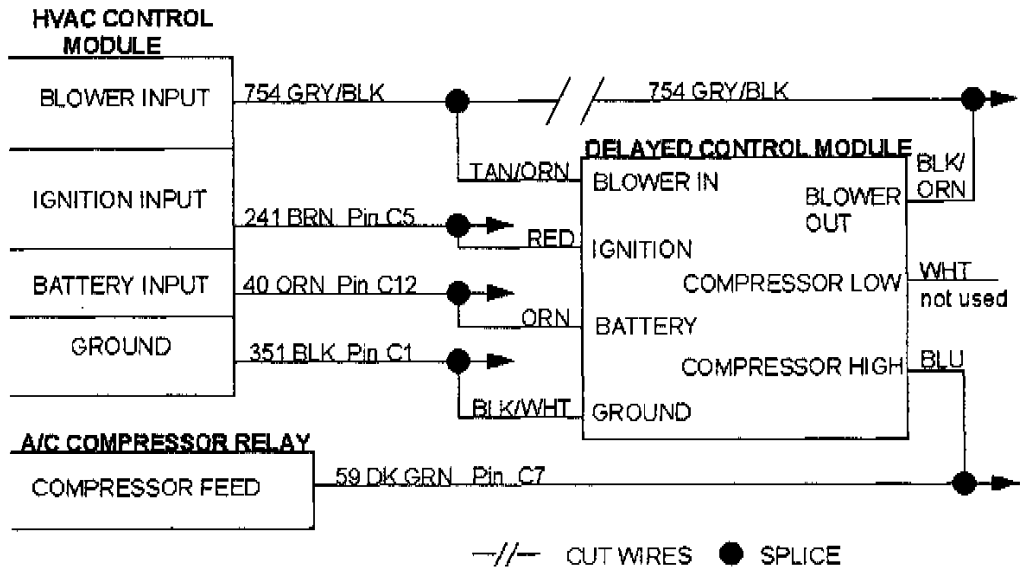


Figure 14

Figure 14

1993 E/K CAR

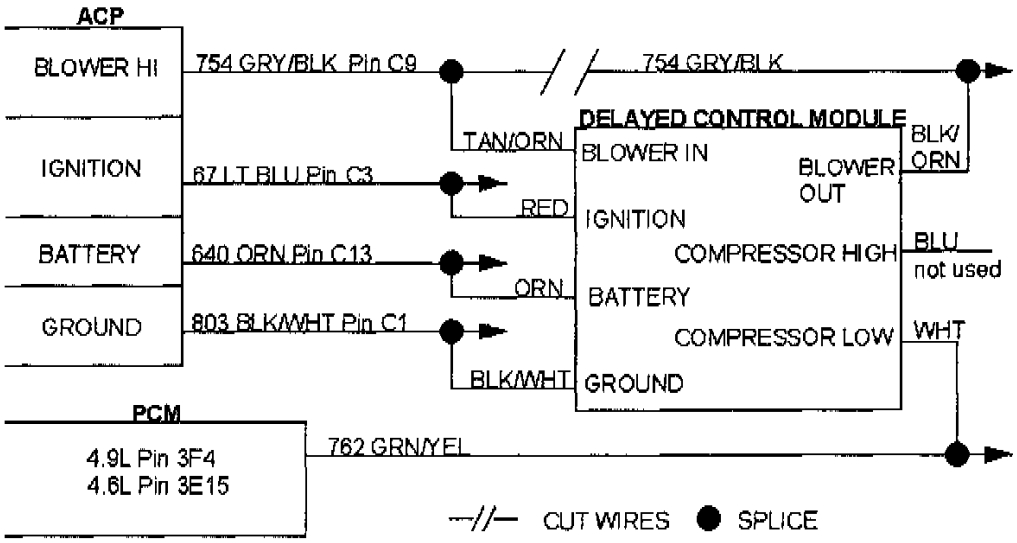


Figure 15

Figure 15

1993 – 96 F CAR

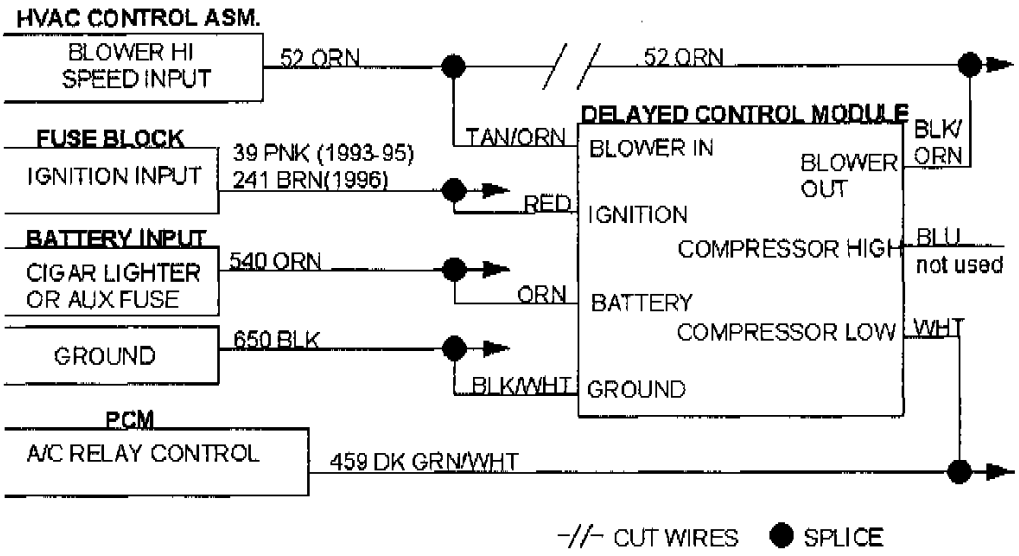


Figure 16

Figure 16

1995 – 96 G CAR

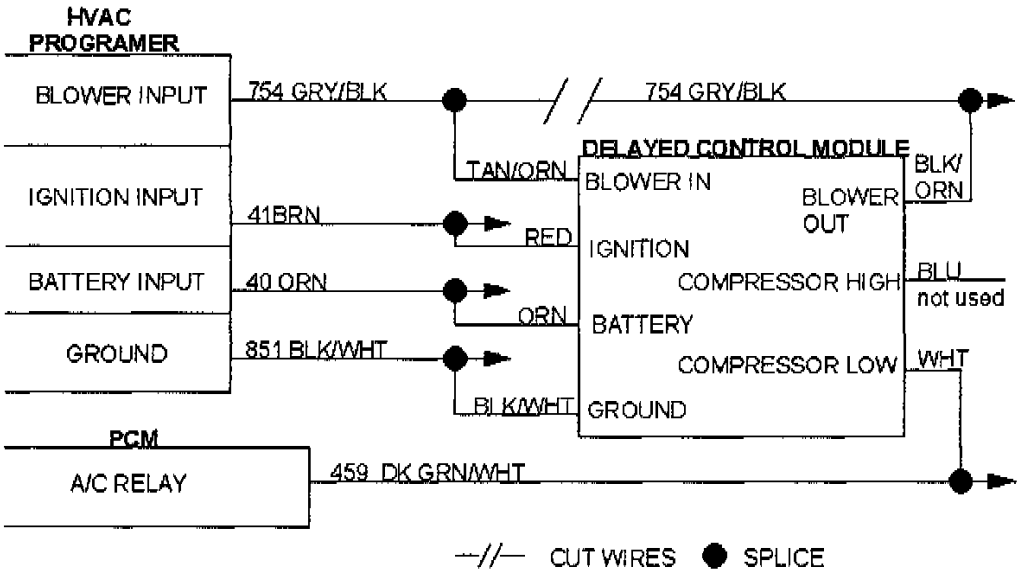


Figure 17

Figure 17

1993 – 94 J CAR

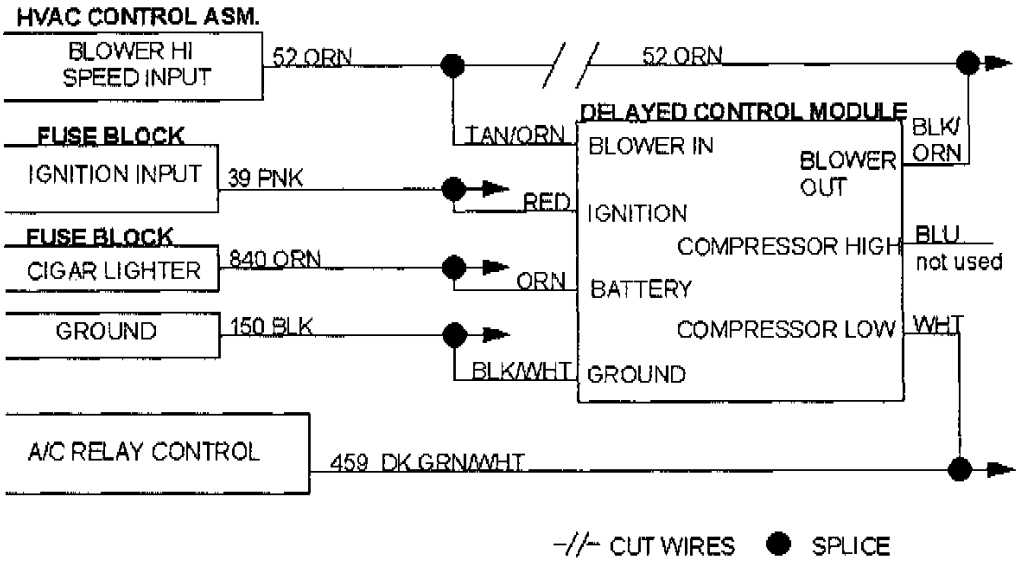


Figure 18

Figure 18

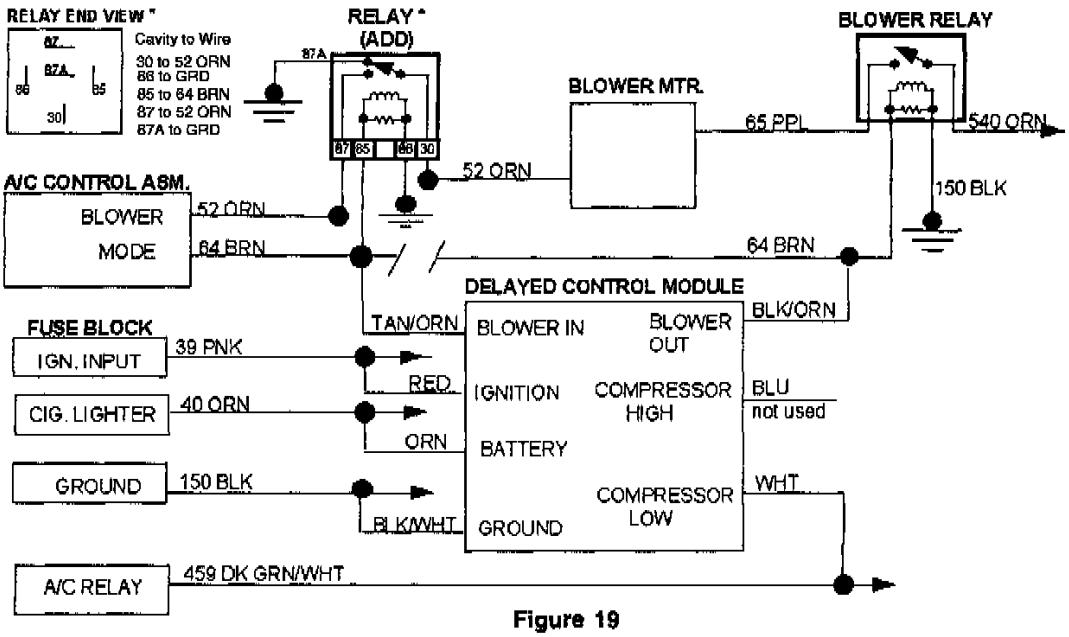


Figure 19

Figure 19

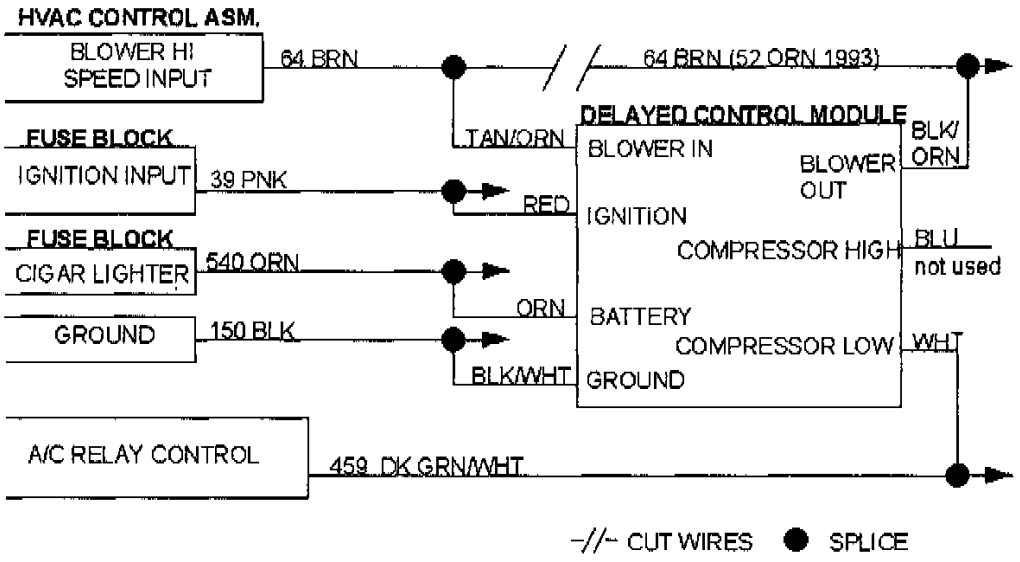


Figure 20

Figure 20

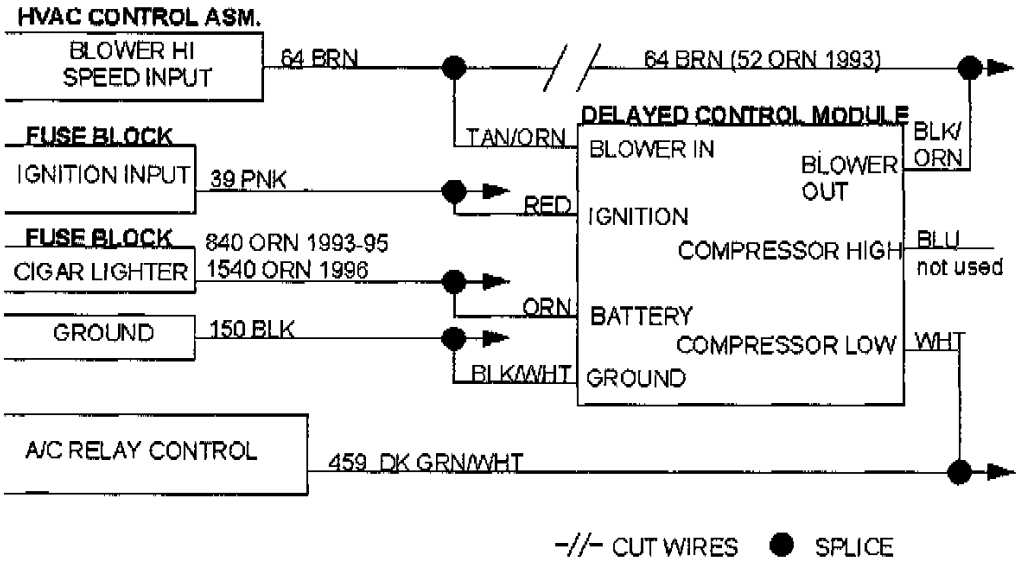


Figure 21

Figure 21

1993 – 96 U VAN

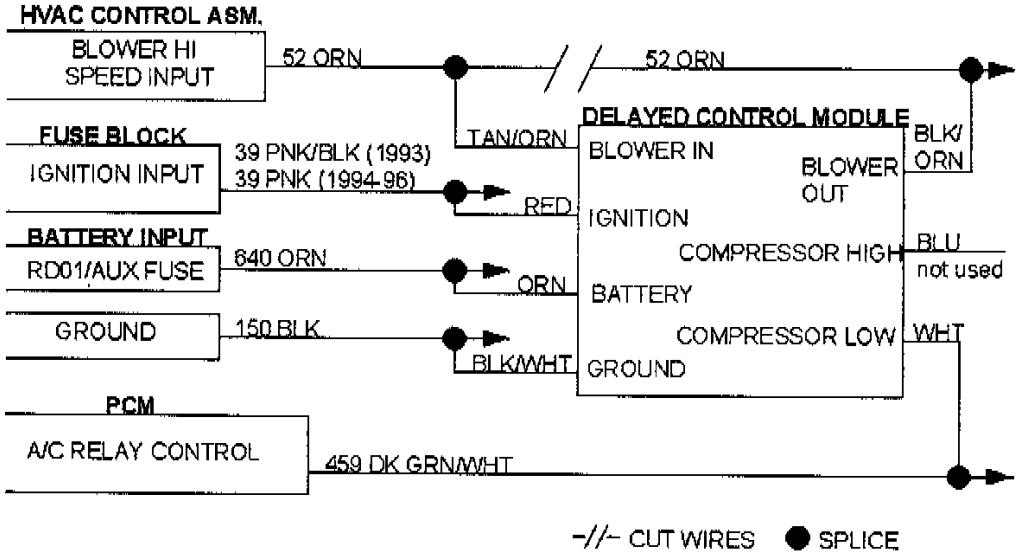


Figure 22

Figure 22

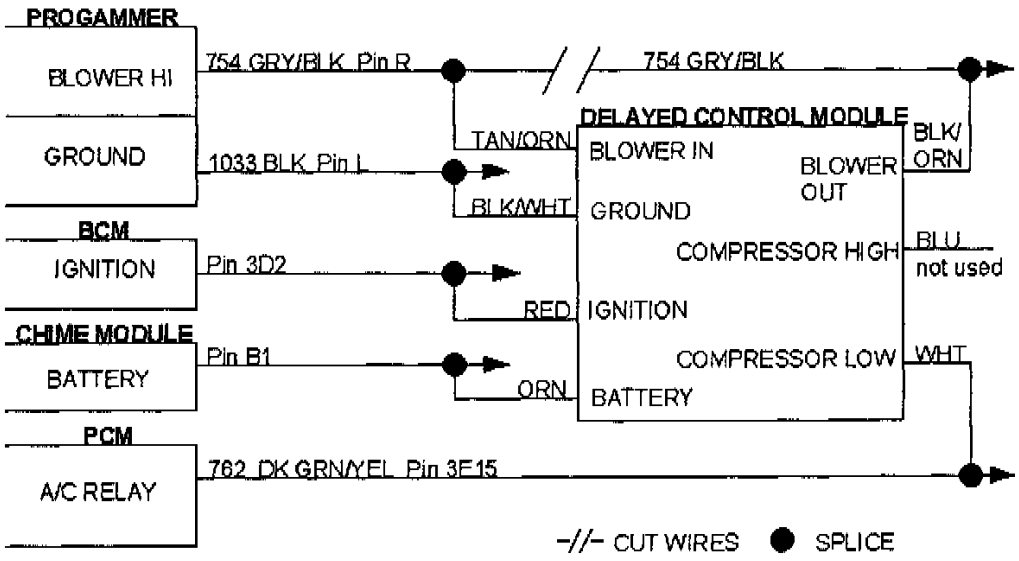


Figure 23

Figure 23

1993 – 96 W CAR

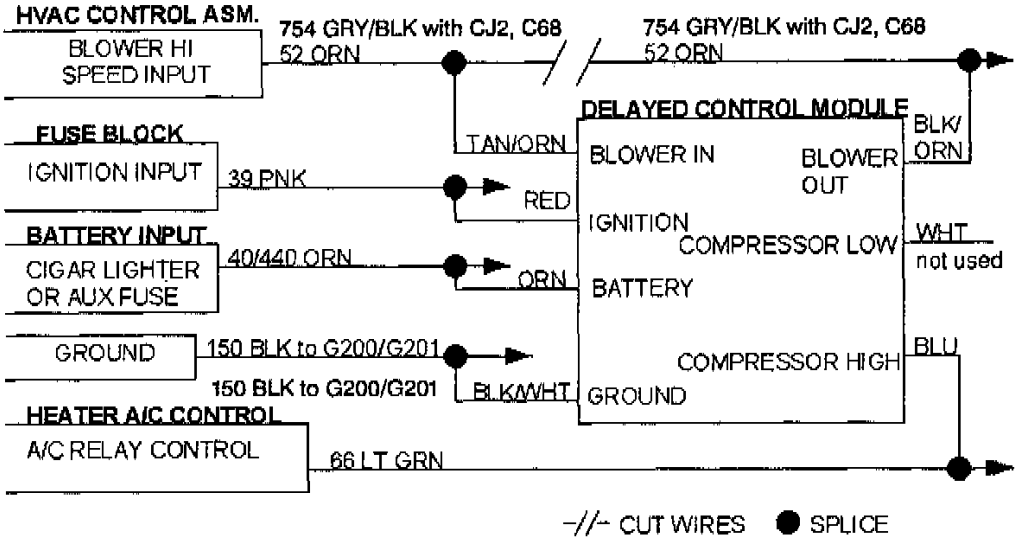


Figure 24

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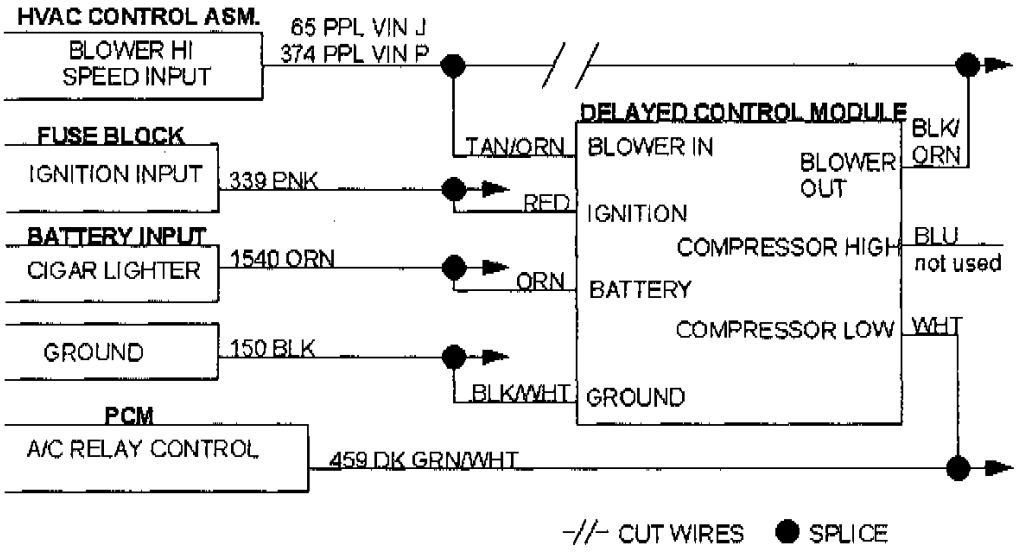

Figure 25

Figure 25

1993 – 94 C/K TRUCK

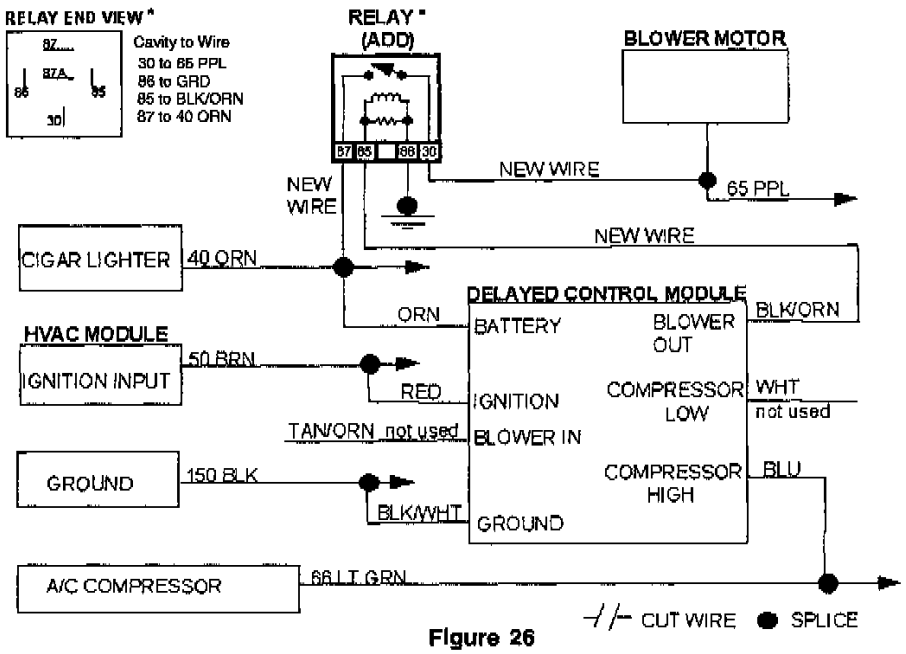

Figure 26

Figure 26

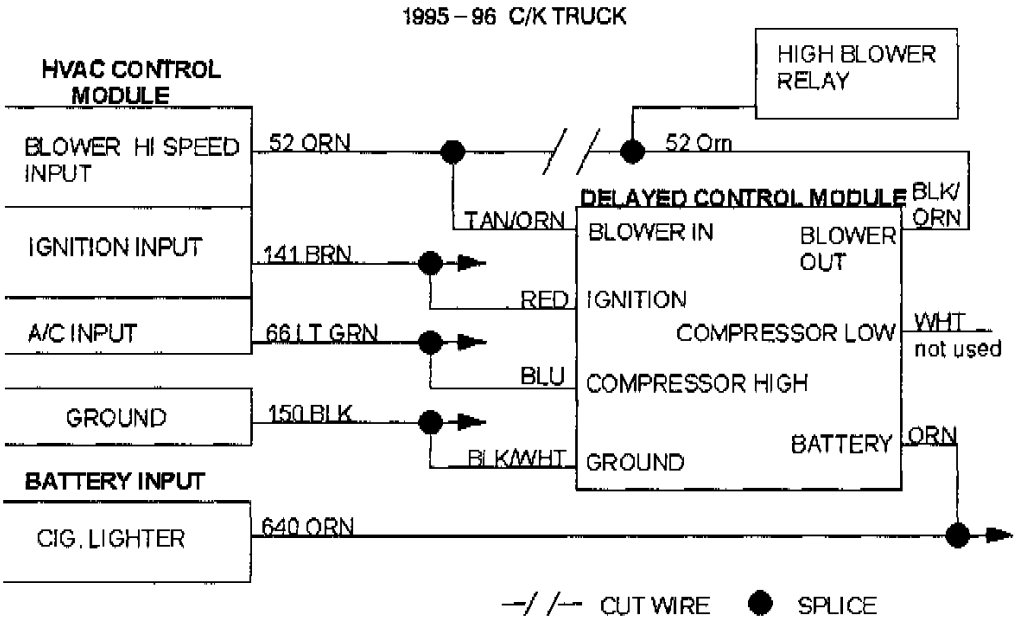

Figure 27

Figure 27

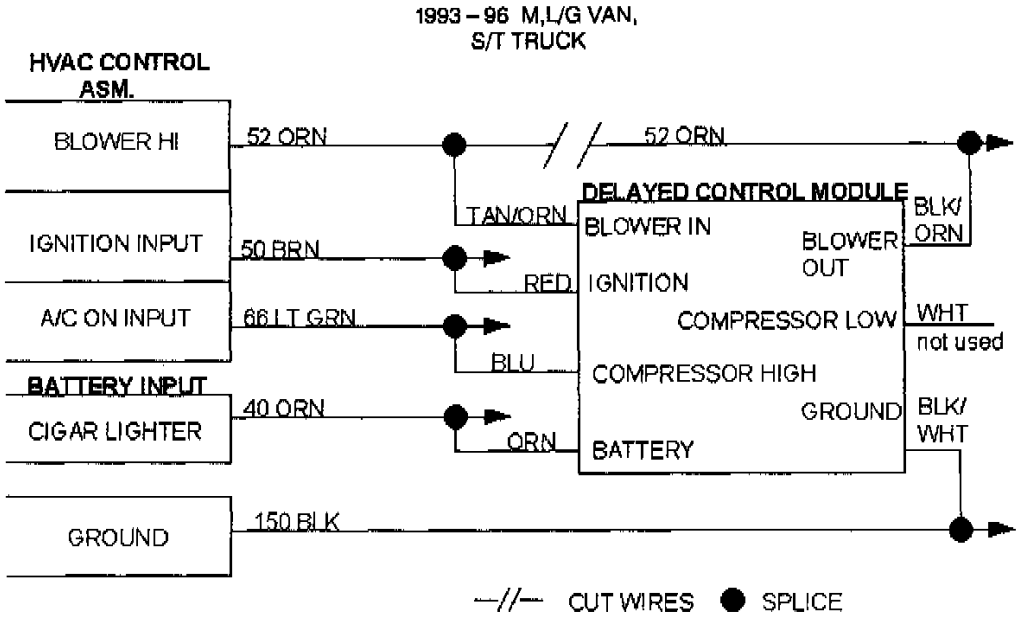

Figure 28

Figure 28