Items

E29LF Fog Lamp - Left Front (T3U) E29LF Fog Lamp - Left Front (T3U)

B9 Ambient Air Temperature Sensor B9 Ambient Air Temperature Sensor

E29RF Fog Lamp - Right Front (T3U) E29RF Fog Lamp - Right Front (T3U)

E4P Park/Turn Signal Lamp - Right E4P Park/Turn Signal Lamp - Right

E4F Headlamp - Right High Beam E4F Headlamp - Right High Beam

E4H Headlamp - Right Low Beam E4H Headlamp - Right Low Beam

E4K Park Lamp - Right Front E4J Park Lamp - Right Front (X88)

FRONT OF VEHICLE COMPONENTS (GMC/Z88)

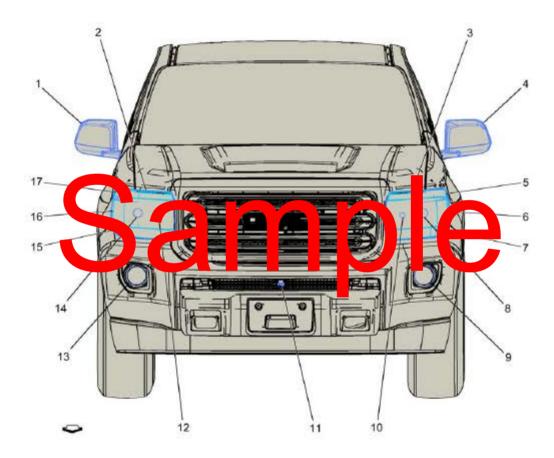


Fig. 2: Front of Vehicle Components (GMC/Z88)
Courtesy of GENERAL MOTORS COMPANY

Items

A9B Outside Rearview Mirror - Passenger

E13RA Headlamp Assembly - Right

E13LA Heattomp Assembly - Left

A9A Outside Rearview Mirror - Driver

E4AC Park Daytime Running Lamp - Left (Z88)

E4N Park Turn Signal Lamp - Left E4N Park/Turn Signal Lamp - Left

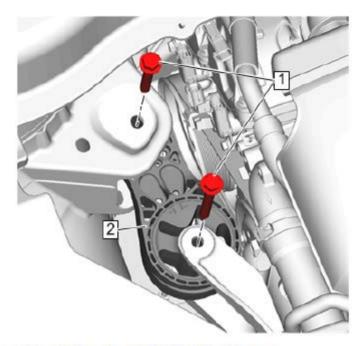


Fig. 192: Engine Mount Strut Bolts - Bank 1 (Right Side) Exhaust Courtesy of GENERAL MOTORS COMPANY

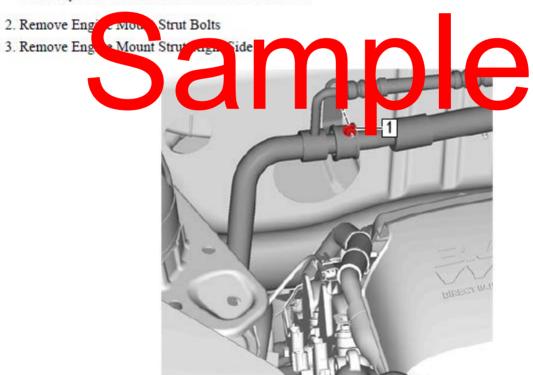


Fig. 193: Air Conditioning Evaporator Tube Clip Nut - Bank 1 (Right Side) Exhaust Courtey of GENERAL MOTORS COMPANY

4. Remove Air Conditioning Evaporator Tube Clip Nut

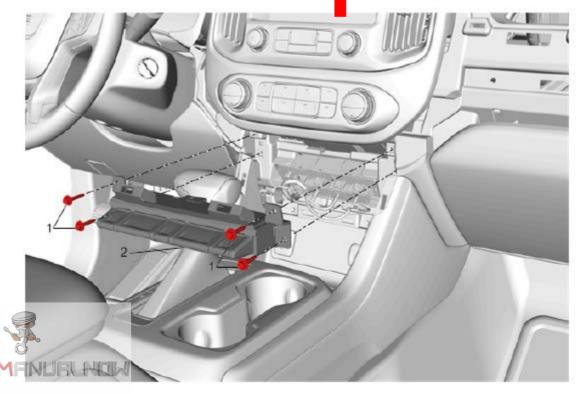


ne heater and air conditioning remote control (1). Refer to <u>Heater and Air Conditioning Remote</u> <u>Control Replacement</u>.



Fig. 35: Front Fig. 1980le
Courtesy of CENERAL MC 2002 PAN

12. Install the front noor console (5), refer to Front Joor cons



Items

- G1 A/C Compressor
- Q2 A/C Compressor Clutch Q2 A/C Compressor Clutch
- B1 A/C Refrigerant Pressure Sensor B1 A/C Refrigerant Pressure Sensor

LEFT FRONT OF THE ENGINE COMPONENTS (LWN)

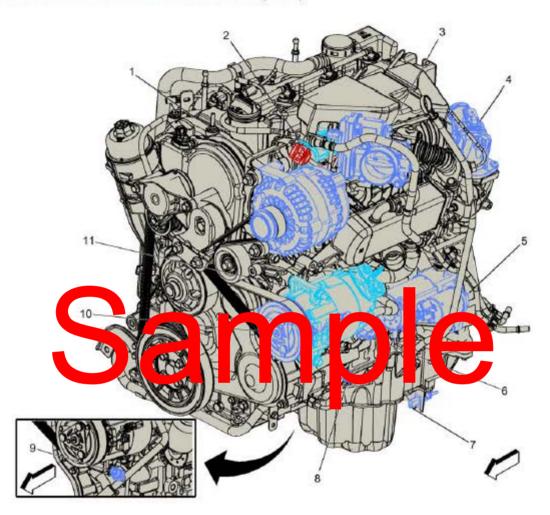


Fig. 7: Left Front of the Engine Components (LWN)
Courtesy of GENERAL MOTORS COMPANY

Items

- G13 Generator G13 Generator
- Q18B Fuel Pressure Regulator 2 (LWN) Q18B Fuel Pressure Regulator 2 (LWN)
- Q38 Throttle Body O38 Throttle Body (LWN)
- Q14 Exhaust Gas Recirculation Valve (LWN) Q14 Exhaust Gas Recirculation Valve (LWN)
- M64 Starter Motor M64 Starter Motor X1 (LWN) M64 Starter Motor X2 (LWN)
- Q46 A/C Compressor Solenoid Valve Q46 A/C Compressor Solenoid Valve
- B26 Crankshaft Position Sensor (LCV/LWN) B26 Crankshaft Position Sensor (LVV).
- Q18A Fuel Pressure Regulator 1 (LWN) Q18A Fuel Pressure Regulator 1 (LWN)

BI A/C Refrigerant Pressure Sensor B1 A/C Refrigerant Pressure Sensor



WARNING: Do not allow smoking or the use of open flames in the area where work on the fuel or EVAP system is taking place. Anytime work is being done on the fuel system, disconnect the negative battery cable, except for those tests where battery voltage is required.

WARNING: Fuel supply lines will remain pressurized for long periods of time after the engine is shutdown. This pressure must be relieved before servicing the fuel system.

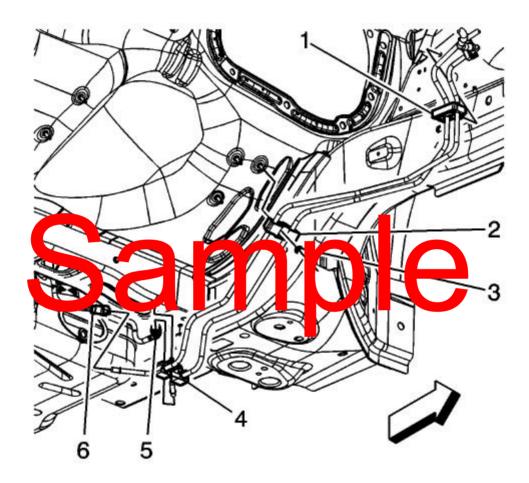


Fig. 69: Fuel Tank Evaporative Emission Canister Vent Front Pipe Quick Connect Fitting Courtesy of GENERAL MOTORS COMPANY

- Relieve the fuel system pressure. Refer to <u>Fuel Pressure Relief</u>.
- 2. Drain the fuel tank. Refer to Fuel Tank Draining.

WARNING: Whenever fuel lines are removed, catch fuel in an approved container.

Container opening must be a minimum of 300 mm (12 in) diameter to adequately catch the fluid.

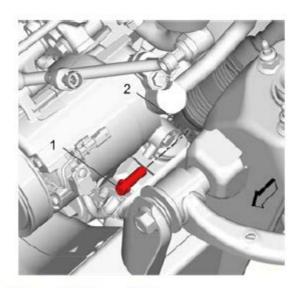


Fig. 14: Lower Steering Shaft Assembly Lower Bolt Courtesy of GENERAL MOTORS COMPANY

- 2. Install Lower Steering Shaft Assembly (2) @Steering Gear.
- Install Lower Steering Shaft Assembly Lower Bolt (1)
 - 1. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry.
 - 2. Apply thread locking adhesive to the bolt. Adhesives, Fluids, Lubricants, and Sealers

CAUTION: Refer to Faster Cautio

4. Lower Steering Shaft A embiasing Box (1) Tethten 0 Non (37 left)

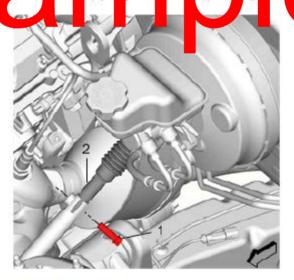


Fig. 15: Intermediate Steering Shaft Lower Bolt Courtesy of GENERAL MOTORS COMPANY

- 5. Install Intermediate Steering Shaft (2) @Lower Steering Shaft Assembly.
- 6. Instal intermediate Steering Shaft Lower Bolt (1), but do NOT tighten
 - 1. Cean the threads of the bolt with denatured alcohol or equivalent and allow to dry.

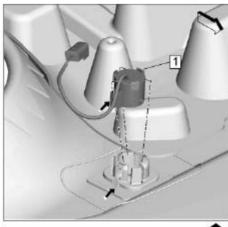




Fig. 15: Mobile Telephone Microphone
Courtesy of GENET AL IN TORS COMPANY

Callout	Co pone Na e
Preliminary It is only ne	y Procedure cessary Llower to he illiner, also those steps the liner to lact near that will lower the lough to gam necess to the part. Headining Trim Funel testine the
	Mobile Telephone Microphone
	Procedure
	Disconnect the electrical connector.
	Depress three tabs to release the microphone from the grille.
1	NOTE: If installing a new microphone, ensure the arrow on the backplate is facing forward in vehicle position and
	make the key opening larger to
PFIRMF	support the larger key.

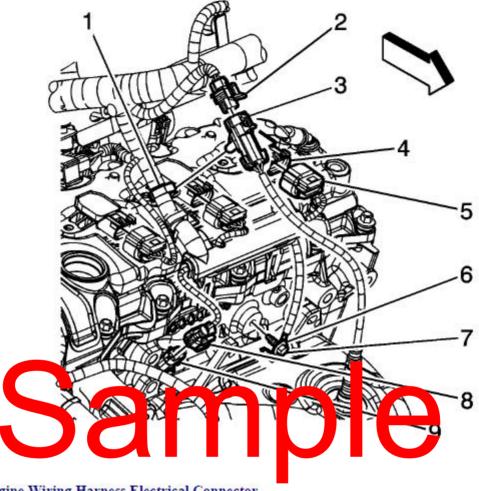


Fig. 20: Engine Wiring Harness Electrical Connector Courtesy of GENERAL MOTORS COMPANY

- 2. Connect the engine wiring harness electrical connector (8) to the ECT sensor (9).
- 3. Slide the electrical connector heat shield down over the connector.
- 4. Fill the cooling system. Cooling System Draining and Filling (Static Fill) Cooling System Draining and Filling (Vac N Fill)

MASS AIRFLOW SENSOR WITH INTAKE AIR TEMPERATURE SENSOR REPLACEMENT

Removal Procedure



Callout	Component Name		
	 Use GE-39037 socket to remove the air conditioning refrigerant valve. 		
	2. Test the system for refrigerant leaks. Refer to Leak Testing.		
	Tighten		
	2 N.m (18 lb in)		
	Special Tools		
	GE-39037 Charge Valve Octagon Socket		
	For equivalent region tools, refer to Special Tools.		

AIR CONDITIONING (A/C) REFRIGERANT PRESSURE SENSOR REPLACEMENT

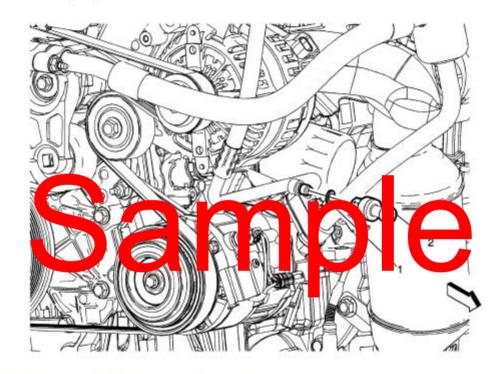


Fig. 39: Air Conditioning (A/C) Refrigerant Pressure Sensor Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name					
Preliminar	y Procedure					
Remove the	electrical connector from the air conditioning refrigerant pressure sensor.					
1	Air Conditioning Refrigerant Pressure Sensor O-ring Procedure Remove and discard the old O-ring and replace with a NEW O-ring. Refer to Air Conditioning O-Ring Seal Replacement.					
2	Air Conditioning Refrigerant Pressure Sensor CAUTION: Refer to Fastener Caution					

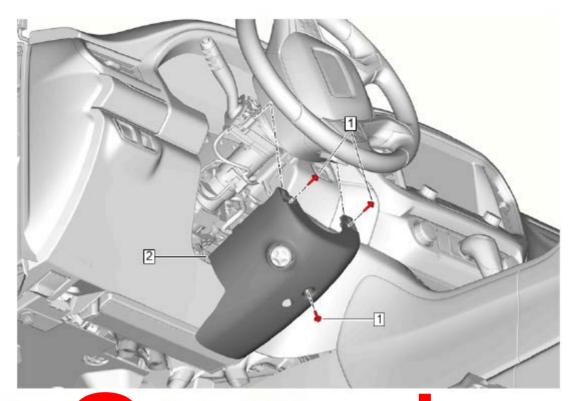


Fig. 27: Steering (Jumn L wer Trim Cover (RPO N38)
Courtesy of GENL AL MOTO/ Acc PA

Callent	Co we N v					
Callout Preliminar	Componer Name					
	olumn Upper Trim Cover Replacement					
1	Steering Column Lower Trim Cover Bolt (Qty: 3) CAUTION: Refer to Fastener Caution.					
	Tighten 2.5 N.m (22 lb in)					
	Steering Column Lower Trim Cover					
	Procedure					
2	 Extended the steering column to its furthest point to clear the instrument panel knee bolster. 					
2	Turn the steering wheel left and right to access the fasteners securing the lower trim cover to the turn signal switch bracket.					
	3. Disconnect the electrical connectors.					
PAIRME	1 Transfer components as necessary.					

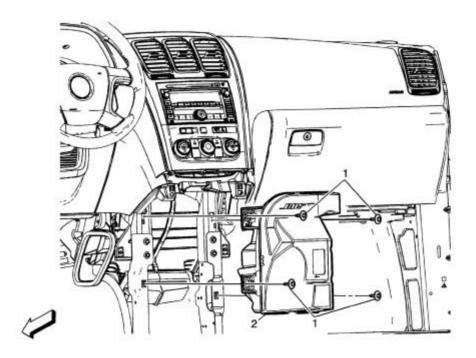


Fig. 38: Radio Front Floor Console Speaker Courtesy of GENE AL Mc ORS COMPANY

Callout	Co: ponei Na e
Remove th	ry Procedure se front floor consoler Front Floor con le Regace ent cadi Front Floor seplacement (Enclave) Front Floor Console Replacement (Traverse).
1	Radio Front Floor Console Speaker Screws (Qty: 4) CAUTION: Refer to Fastener Caution Tighten 9 N.m (80 1b in)
2	Radio Front Floor Console Speaker Assembly Procedure Disconnect the electrical connector.

RADIO REAR SPEAKER REPLACEMENT



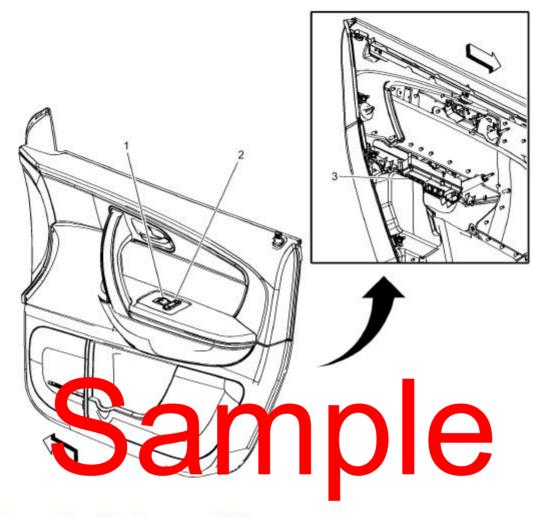


Fig. 13: Passenger Door Trim Components (Z88)
Courtesy of GENERAL MOTORS COMPANY

Items

1: S79P Window Switch - Passenger (without AXE)

2: S13P Door Lock Switch - Passenger (without AXE) S13P Door Lock Switch - Passenger

3: S84P Door Switch Panel Control Module - Passenger (AXE) S84P Door Switch Panel Control

Module - Passenger X1 S84P Door Switch Panel Control Module - Passenger X2 S84P Door Switch

Panel Control Module - Passenger X3

LEFT REAR DOOR COMPONENTS (W49)



Callout Component Name

Presence System Replacement - Front .

Passenger Seat Cushion Heater

Procedure

- 1. Using a pair of scissors cut the hog rings and remove the passenger presence system.
- Remove the heater element leaving the old adhesive strips in tack on the seat cushion.The new seat heater adhesive strips will be placed over the old adhesive strips.

1 NOTE:

In case of a broken heating wire, DO NOT repair by soldering the two ends.

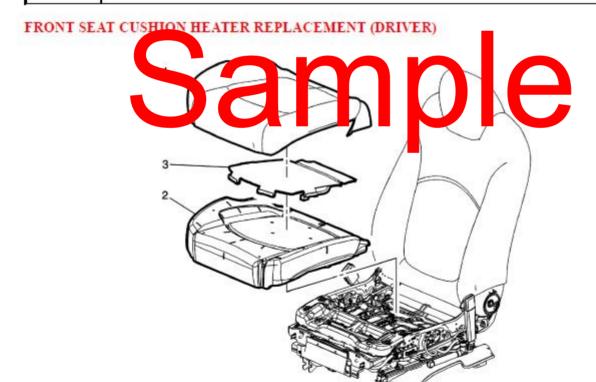


Fig. 23: Front Seat Cushion Heater (Driver)
Courtesy of ENERAL MOTORS COMPANY



Callout	Component Name			
487	Front Differential Carrier Bearing Assembly			
488	Front Differential Carrier Thrust Washer			
492	Front Differential Side Gear Thrust Washer			

SEAL LOCATIONS

Seal Locations #1

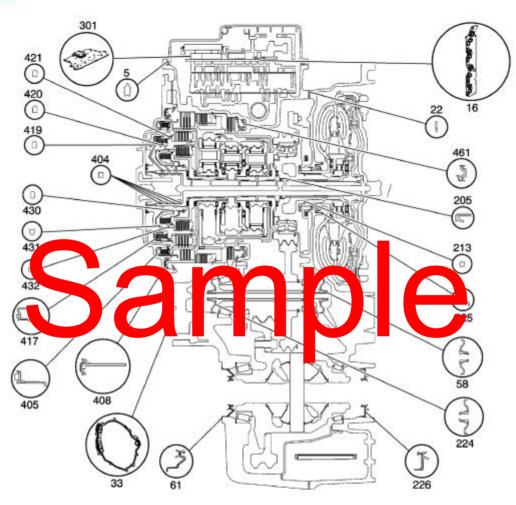


Fig. 17: Seal Locations (1 Of 2) Courtesy of GENERAL MOTORS COMPANY

Callout	Callout Component Name				
5	Control Valve Body Cover Assembly Gasket				
16	Control Solenoid (w/Body and TCM) Filter Plate Assembly				
22	Torque Converter Housing Outer Seal				
33	A/Trans Case Cover Gasket				
	Front Differential Drive Pinion Gear Lube Dam				
68	Front Wheel Drive Shaft Oil Seal Assembly				
112 M205 NII I	Front Differential Transfer Drive Gear Support Seal Assembly				

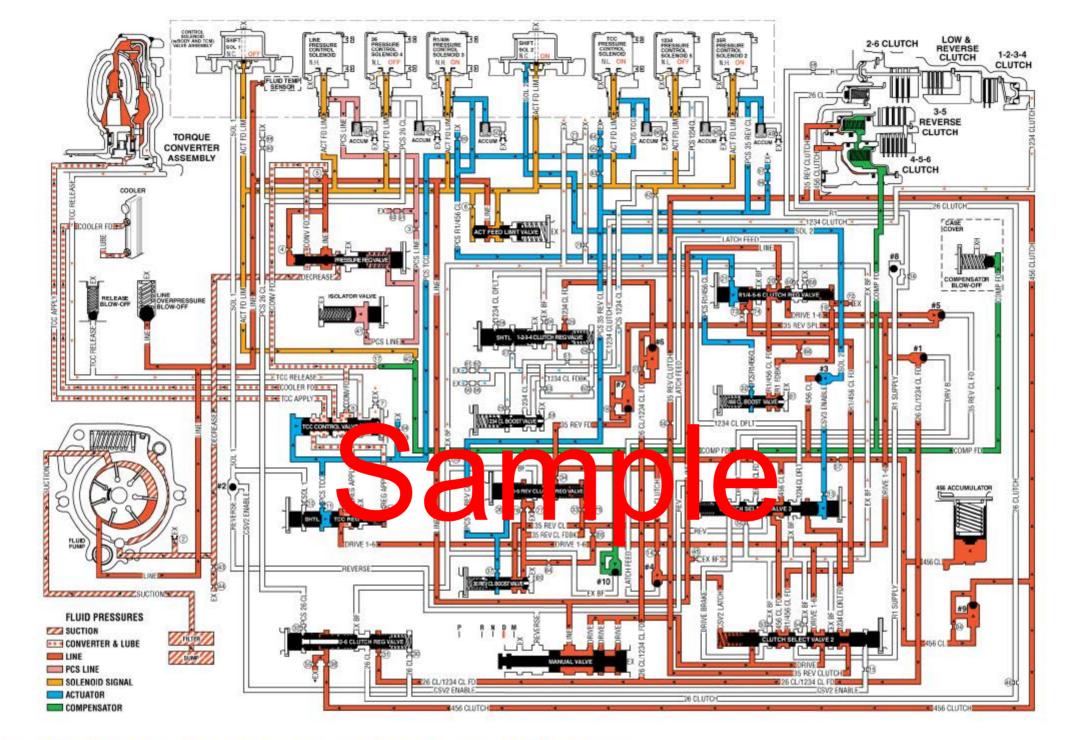
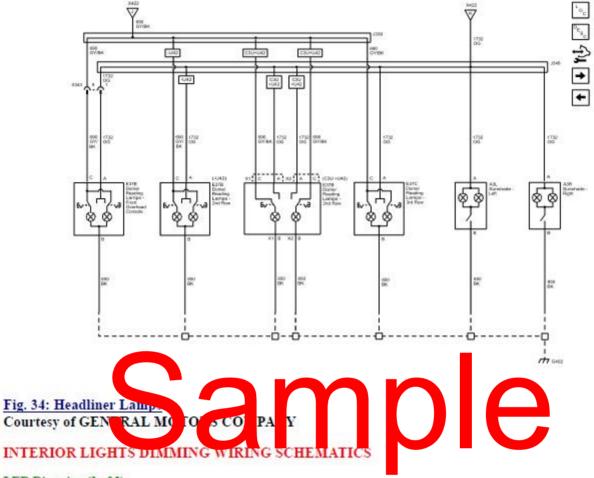


Fig. 16: Fluid Hydraulic Diagram - Drive Range, Fifth Gear Courtesy of GERAL MOTORS COMPANY

PIVE RANGE FIFTH GEAR DEFAULT

If the transmission is in 4th, 5th or 6th gear during a transmission electrical component failure, the transmission will default to 5th gear. All solenoids will default to their normal state. If the torque converter clutch was

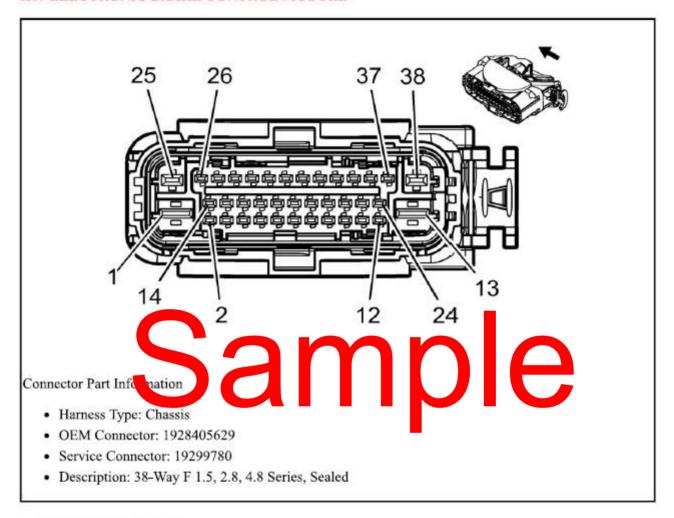


LED Dimming (1 of 3)



COMPONENT CONNECTOR END VIEWS

K17 ELECTRONIC BRAKE CONTROL MODULE



Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578852	J-35616-40 (BU)	J-38125-561	Not Available	Not Available	Not Available	Not Available
П	13578853	J-35616-35 (VT)	J-38125-561	Not Available	Not Available	Not Available	Not Available
Ш	13584537	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

Pin Size Color Circuit	Function	Terminal Type ID	Option
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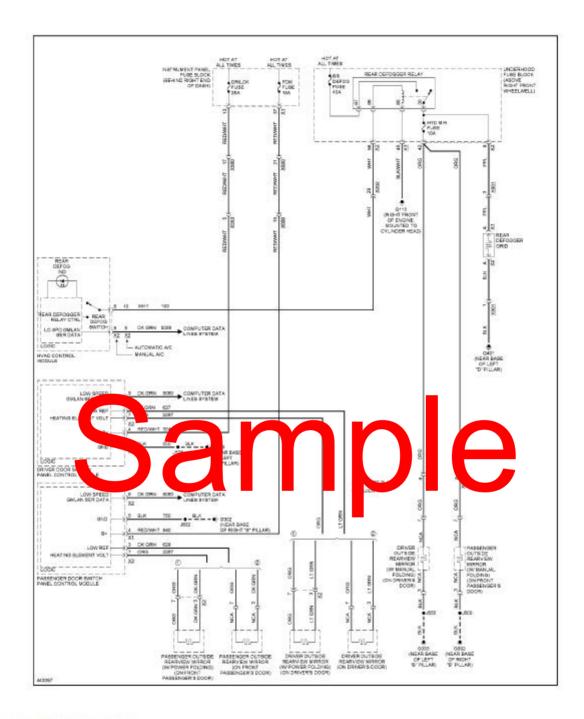


Fig. 18: Defoggers Circuit

ELECTRONIC POWER STEERING

