

2017 ELECTRICAL

Wiring Systems and Power Management - Component Locator - Powertrain Component Views - Sierra, Silverado

POWERTRAIN COMPONENT VIEWS

TOP OF ENGINE COMPONENTS (LV3)

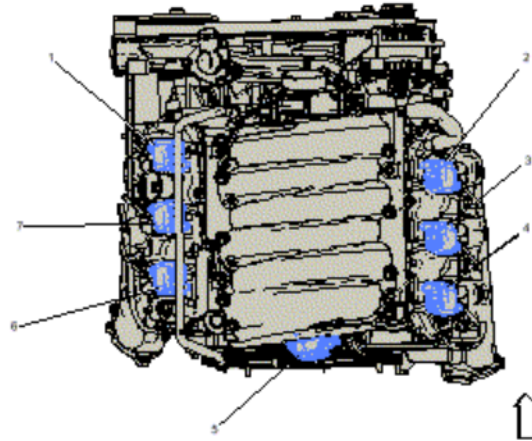


Fig. 1: Top of Engine Components (LV3)

Courtesy of GENERAL MOTORS COMPANY

Items
1. T8A Ignition Coil 1 (except L5P)
2. T8B Ignition Coil 2 (except L5P)
3. T8D Ignition Coil 4 (except L5P)
4. T8F Ignition Coil 6 (except L5P)
5. G18 High Pressure Fuel Pump (1500)
6. T8E Ignition Coil 5 (except L5P)
7. T8C Ignition Coil 3 (except L5P)

TOP OF ENGINE COMPONENTS (L83/L86/L8B)

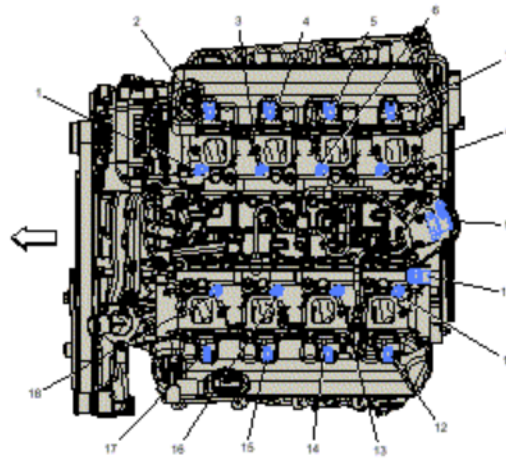


Fig. 2: Top of Engine Components (L83/L86/L8B)

Courtesy of GENERAL MOTORS COMPANY

Items

1. Q17B Fuel Injector 2
2. T8B Ignition Coil 2 (except L5P)
3. Q17D Fuel Injector 4
4. T8D Ignition Coil 4 (except L5P)
5. T8F Ignition Coil 6 (except L5P) **T8F Ignition Coil 6 (LV3/L8B/L83/L86)**
6. Q17F Fuel Injector 6
7. T8H Ignition Coil 8 (L83, L86, L96 or LC8) **T8H Ignition Coil 8 (L8B/L83/L86)**
8. Q17H Fuel Injector 8
9. G18 High Pressure Fuel Pump (1500) **G18 High Pressure Fuel Pump**
10. B310 Fuel Pressure/Temperature Sensor **B310 Fuel Pressure/Temperature Sensor (1500)**
11. Q17G Fuel Injector 7
12. T8G Ignition Coil 7 (L83, L86, L96 or LC8) **T8G Ignition Coil 7 (LV3/L8B/L83/L86)**
13. Q17E Fuel Injector 5
14. T8E Ignition Coil 5 (except L5P)
15. T8C Ignition Coil 3 (except L5P) **T8C Ignition Coil 3 (LV3/L8B/L83/L86)**
16. Q17C Fuel Injector 3
17. T8A Ignition Coil 1 (except L5P)
18. Q17A Fuel Injector 1

RIGHT REAR SIDE OF ENGINE COMPONENTS (L8B)

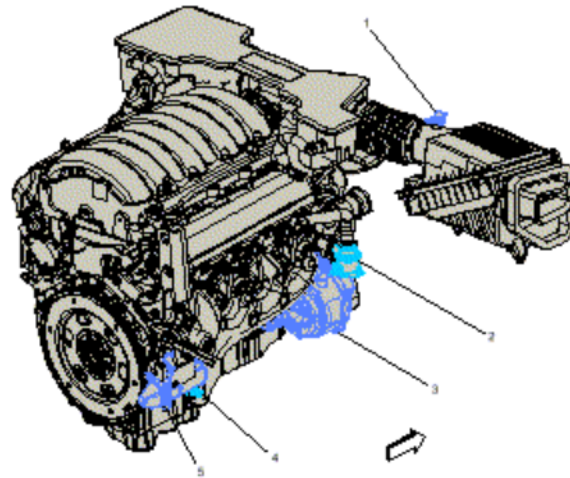


Fig. 3: Right Rear Side of Engine Components (L8B)

Courtesy of GENERAL MOTORS COMPANY

Items
1. B75C Multifunction Intake Air Sensor
2. G17 Heater Coolant Pump (HP5)
3. A15 Starter/Generator (HP5)
4. B35 Engine Oil Level Switch (1500 or L5P)
5. M64 Starter Motor

LEFT FRONT OF ENGINE COMPONENTS (LV3)

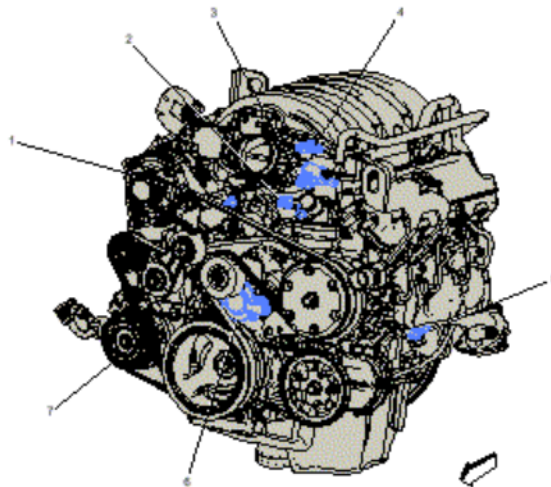


Fig. 4: Left Front of Engine Components (LV3)

Courtesy of GENERAL MOTORS COMPANY

Items
1. B37B Engine Oil Pressure Sensor <u>B37B Engine Oil Pressure Sensor (LV3)</u>
2. Q43 Valve Lifter Oil Manifold Assembly (1500) <u>Q43 Valve Lifter Oil Manifold Assembly (LV3)</u>

Items

3. Q12 Evaporative Emission Purge Solenoid Valve (except L5P) **Q12 Evaporative Emission Purge Solenoid Valve (LV3)**
4. B74 Manifold Absolute Pressure Sensor **B74 Manifold Absolute Pressure Sensor (LV3/L8B/L83/L86)**
5. B68A Knock Sensor 1 (except L5P) **B68A Knock Sensor 1**
6. Q6 Camshaft Position Actuator Solenoid Valve (except L5P) **Q6 Camshaft Position Actuator Solenoid Valve**
7. B34 Engine Coolant Temperature Sensor **B34 Engine Coolant Temperature Sensor (LV3)**

RIGHT REAR OF ENGINE COMPONENTS (LV3)

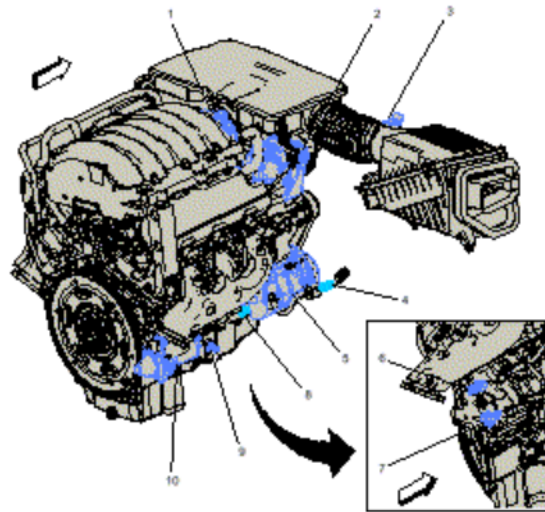


Fig. 5: Right Rear of Engine Components (LV3)

Courtesy of GENERAL MOTORS COMPANY

Items

1. Q38 Throttle Body **Q38 Throttle Body (LV3)**
2. G13 Generator **G13 Generator X1**
3. B75C Multifunction Intake Air Sensor **B75C Multifunction Intake Air Sensor (LV3)**
4. B1 A/C Refrigerant Pressure Sensor (C67 or CJ2) **B1 A/C Refrigerant Pressure Sensor (LV3)**
5. Q2 A/C Compressor Clutch (C67 or CJ2) **Q2 A/C Compressor Clutch**
6. B68B Knock Sensor 2 (except L5P) **B68B Knock Sensor 2**
7. B26 Crankshaft Position Sensor **B26 Crankshaft Position Sensor (LV3)**
8. Q46 A/C Compressor Solenoid Valve (C67 or CJ2) **Q46 A/C Compressor Solenoid Valve**
9. B35 Engine Oil Level Switch (1500 or L5P) **B35 Engine Oil Level Switch (LV3)**
10. M64 Starter Motor **M64 Starter Motor (LV3)**

LEFT SIDE OF ENGINE COMPONENTS (L5P)

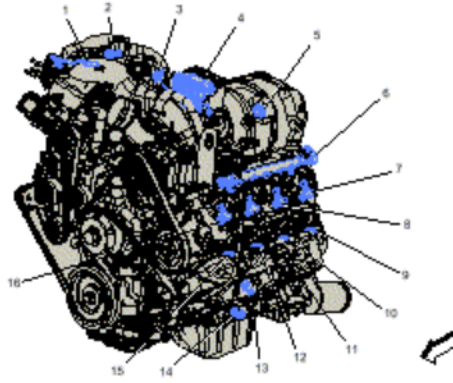


Fig. 6: Left Side of Engine Components (L5P)
Courtesy of GENERAL MOTORS COMPANY

Items
(1) B131A Exhaust Temperature Sensor 1
(2) B65 Intake Manifold Pressure and Air Temperature Sensor
(3) B193A Charge Air Cooler Inlet Temperature Sensor
(4) M103 Turbocharger Vane Position Actuator
(5) B195A Nitrogen Oxides Sensor 1
(6) Q18B Fuel Pressure Regulator 2
(7) Q17H Fuel Injector 8
(8) Q17F Fuel Injector 6
(9) E12H Glow Plug 8
(10) E12F Glow Plug 6
(11) Q17D Fuel Injector 4 (LV7)
(12) E12D Glow Plug 4
(13) B37B Engine Oil Pressure Sensor
(14) B35 Engine Oil Level Switch
(15) E12B Glow Plug 2
(16) Q17B Fuel Injector 2

TOP OF THE ENGINE COMPONENTS (L5P)

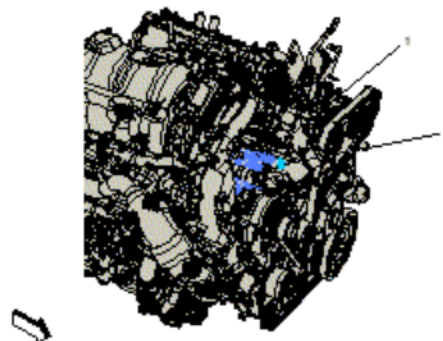


Fig. 7: Top of the Engine Components (L5P)
Courtesy of GENERAL MOTORS COMPANY

Items

1. Q18A Fuel Pressure Regulator 1 (L5P) **Q18A Fuel Pressure Regulator 1**
2. B34 Engine Coolant Temperature Sensor **B34 Engine Coolant Temperature Sensor (L5P)**

RIGHT SIDE OF ENGINE COMPONENTS (L5P)

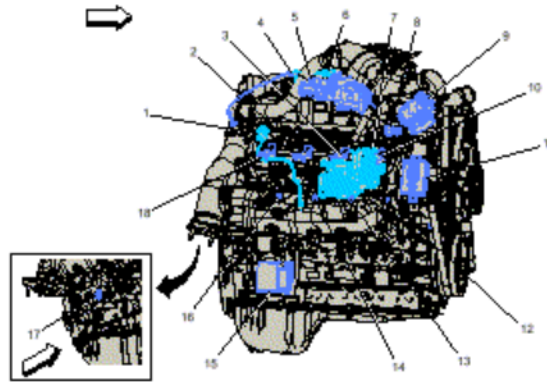


Fig. 8: Right Side of Engine Components (L5P)

Courtesy of GENERAL MOTORS COMPANY

Items

- (1) B130A Exhaust Gas Recirculation Temperature Sensor 1 (L5P)
- (2) Q17E Fuel Injector 5
- (3) Q17C Fuel Injector 3 **Q17C Fuel Injector 3 (L5P)**
- (4) B131B Exhaust Temperature Sensor 2 (L5P)
- (5) Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve (L5P)
- (6) B130B Exhaust Gas Recirculation Temperature Sensor 2 (L5P)
- (7) Q14 Exhaust Gas Recirculation Valve (L5P)
- (8) B47B Fuel Rail Pressure Sensor (1500 or L5P)
- (9) Q38 Throttle Body
- (10) Q17A Fuel Injector 1
- (11) K34 Glow Plug Control Module (L5P)
- (12) E12A Glow Plug 1 (L5P)
- (13) E12C Glow Plug 3 (L5P)
- (14) E12E Glow Plug 5 (L5P)
- (15) M64 Starter Motor
- (16) E12G Glow Plug 7 (L5P)
- (17) B26 Crankshaft Position Sensor
- (18) Q17G Fuel Injector 7

FRONT OF ENGINE COMPONENTS (L5P)

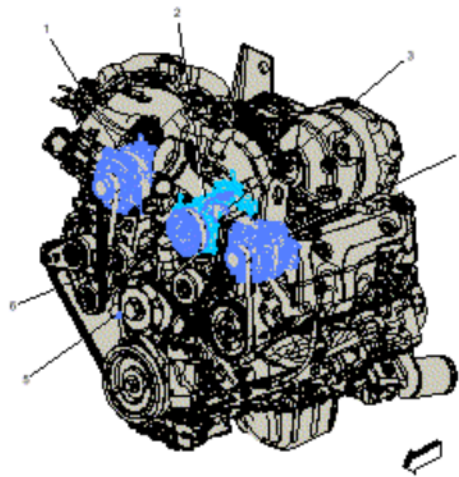


Fig. 9: Front of Engine Components (L5P)

Courtesy of GENERAL MOTORS COMPANY

(1) G13E Generator - Auxiliary
(2) G1 A/C Compressor
(3) Q46 A/C Compressor Solenoid Valve
(4) G13 Generator
(5) B23 Camshaft Position Sensor
(6) Q2 A/C Compressor Clutch

RIGHT REAR SIDE OF THE ENGINE COMPONENTS (L5P)

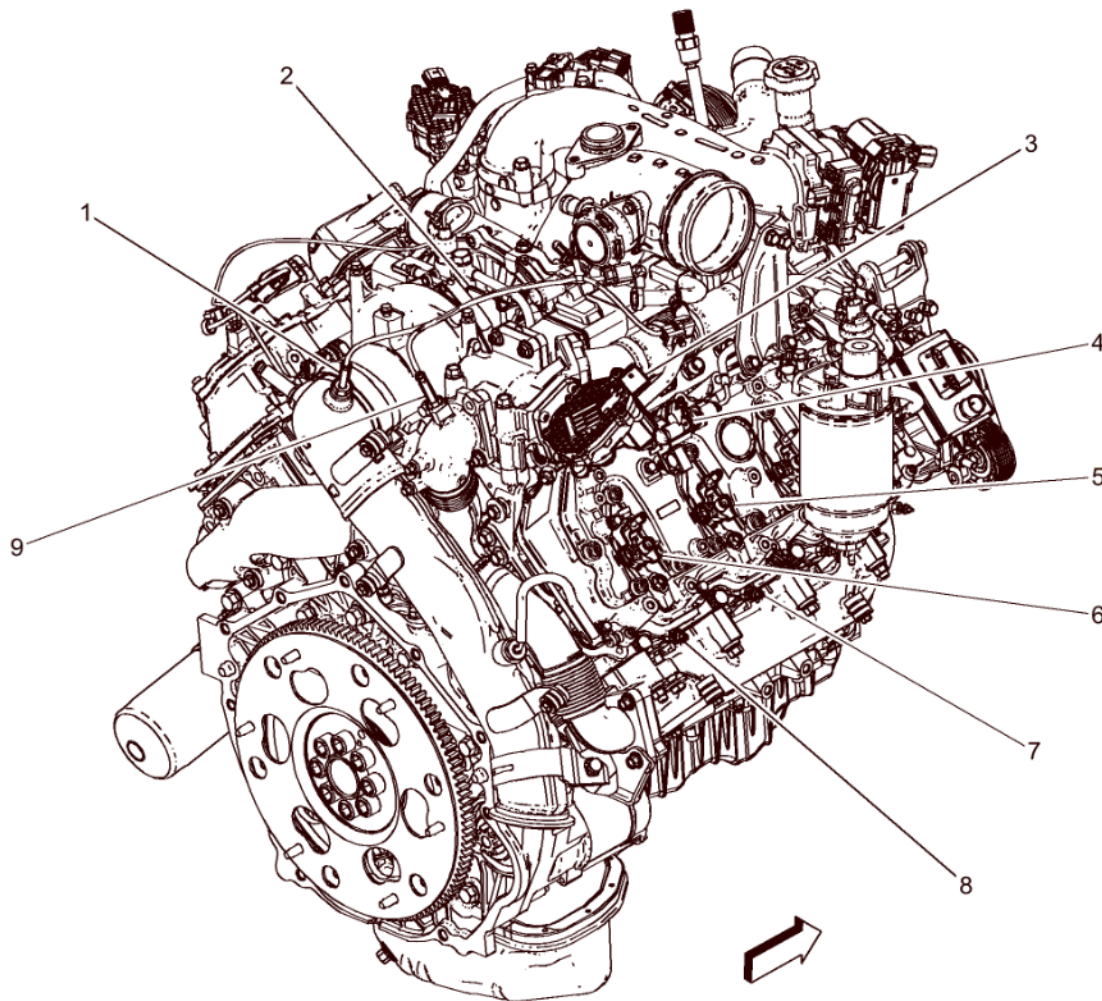


Fig. 10: Right Rear Side of the Engine Components (L5P)

Courtesy of GENERAL MOTORS COMPANY

Items
1. B131A Exhaust Temperature Sensor 1 (L5P) <u>B131A Exhaust Temperature Sensor 1</u>
2. Q41 Turbocharger Vane Position Control Solenoid Valve (L5P)
3. Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve (L5P) <u>Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve</u>
4. Q67 Exhaust Aftertreatment Fuel Injector (L5P) <u>Q67 Exhaust Aftertreatment Fuel Injector</u>
5. Q17E Fuel Injector 5 <u>Q17E Fuel Injector 5 (L5P)</u>
6. Q17G Fuel Injector 7 <u>Q17G Fuel Injector 7 (L5P)</u>
7. E12E Glow Plug 5 (L5P) <u>E12E Glow Plug 5</u>
8. E12G Glow Plug 7 (L5P) <u>E12G Glow Plug 7</u>
9. B130A Exhaust Gas Recirculation Temperature Sensor 1 (L5P) <u>B130A Exhaust Gas Recirculation Temperature Sensor 1</u>

LEFT SIDE OF ENGINE COMPONENTS (L96)

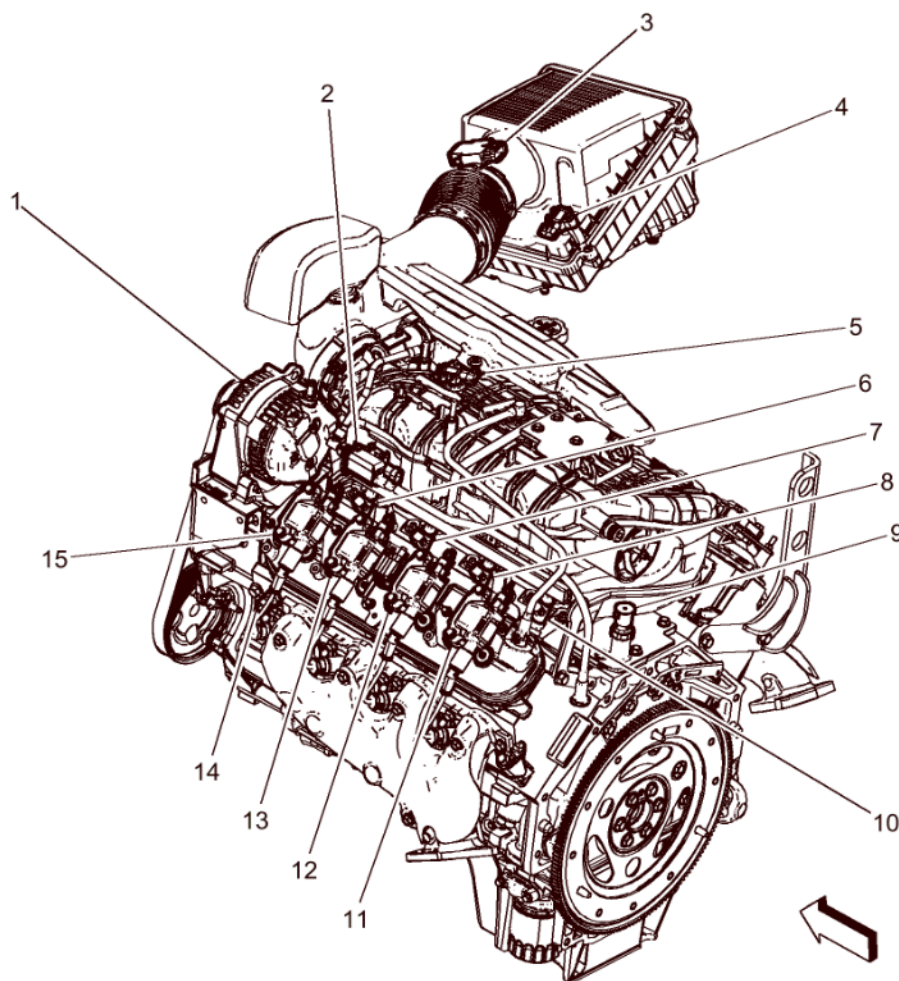


Fig. 11: Left Side of Engine Components (L96)
 Courtesy of GENERAL MOTORS COMPANY

Items

1. G13 Generator **G13 Generator X1**
2. Q12 Evaporative Emission Purge Solenoid Valve (except L5P) **Q12 Evaporative Emission Purge Solenoid Valve (L96/LC8)**
3. B75C Multifunction Intake Air Sensor **B75C Multifunction Intake Air Sensor (L96/LC8)**
4. B192 Throttle Inlet Absolute Pressure Sensor (L96 or LC8)
5. B74 Manifold Absolute Pressure Sensor **B74 Manifold Absolute Pressure Sensor (L96/LC8)**
6. Q17A Fuel Injector 1 **Q17A Fuel Injector 1 (L96/LC8)**
7. Q17C Fuel Injector 3 **Q17C Fuel Injector 3 (L96/LC8)**
8. Q17E Fuel Injector 5 **Q17E Fuel Injector 5 (L96/LC8)**
9. B37B Engine Oil Pressure Sensor **B37B Engine Oil Pressure Sensor (L96/LC8)**
10. Q17G Fuel Injector 7 **Q17G Fuel Injector 7 (L96/LC8)**
11. T8G Ignition Coil 7 (L83, L86, L96 or LC8) **T8G Ignition Coil 7 (L96/LC8)**
12. T8E Ignition Coil 5 (except L5P) **T8E Ignition Coil 5 (L96/LC8)**
13. T8C Ignition Coil 3 (except L5P) **T8C Ignition Coil 3 (L96/LC8)**
14. B34 Engine Coolant Temperature Sensor **B34 Engine Coolant Temperature Sensor (L96/LC8)**

Items

15. T8A Ignition Coil 1 (except L5P) [T8A Ignition Coil 1 \(L96/LC8\)](#)

RIGHT SIDE OF ENGINE COMPONENTS (L96)

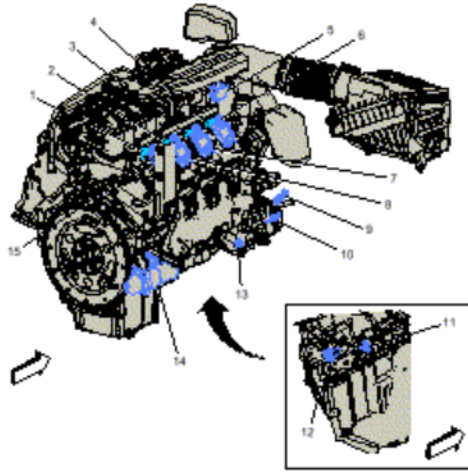


Fig. 12: Right Side of Engine Components (L96)

Courtesy of GENERAL MOTORS COMPANY

Items

1. Q17H Fuel Injector 8 [Q17H Fuel Injector 8 \(L96/LC8\)](#)
2. Q17F Fuel Injector 6 [Q17F Fuel Injector 6 \(L96/LC8\)](#)
3. Q17D Fuel Injector 4 [Q17D Fuel Injector 4 \(L96/LC8\)](#)
4. Q17B Fuel Injector 2 [Q17B Fuel Injector 2 \(L96/LC8\)](#)
5. Q38 Throttle Body [Q38 Throttle Body \(L96/LC8\)](#)
6. T8B Ignition Coil 2 (except L5P)
7. T8D Ignition Coil 4 (except L5P) [T8D Ignition Coil 4 \(L96/LC8\)](#)
8. T8F Ignition Coil 6 (except L5P)
9. B1 A/C Refrigerant Pressure Sensor (C67 or CJ2) [B1 A/C Refrigerant Pressure Sensor \(L96\)](#)
10. Q2 A/C Compressor Clutch (C67 or CJ2) [Q2 A/C Compressor Clutch](#)
11. B68B Knock Sensor 2 (except L5P) [B68B Knock Sensor 2](#)
12. B26 Crankshaft Position Sensor [B26 Crankshaft Position Sensor \(L96/LC8\)](#)
13. Q46 A/C Compressor Solenoid Valve (C67 or CJ2) [Q46 A/C Compressor Solenoid Valve](#)
14. M64 Starter Motor [M64 Starter Motor \(L96/LC8\)](#)
15. T8H Ignition Coil 8 (L83, L86, L96 or LC8) [T8H Ignition Coil 8 \(L96/LC8\)](#)

MANUAL TRANSMISSION COMPONENTS (MQ7)

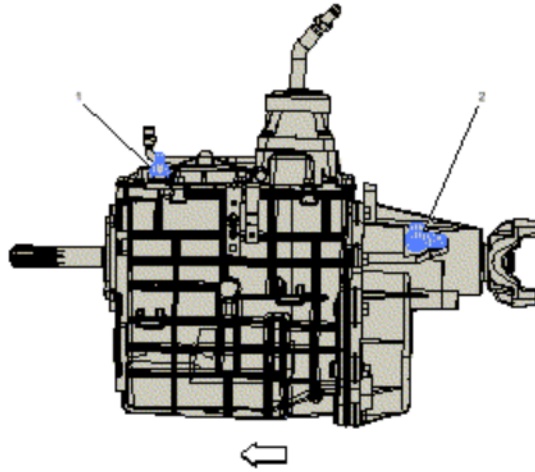


Fig. 13: Manual Transmission Components (MQ7)

Courtesy of GENERAL MOTORS COMPANY

Items

1. B16 Backup Lamp Switch (M2P, MQ7 or MXW)
2. B115 Vehicle Speed Sensor (NQF, NQG or NQH) **B115 Vehicle Speed Sensor (L5P+MW7(-NQF/NQG)) B115 Vehicle Speed Sensor (L5P+NQF+MW7) B115 Vehicle Speed Sensor (L5P+NQG+MW7) B115 Vehicle Speed Sensor (LC8/L96&NQF) B115 Vehicle Speed Sensor (LC8/L96&NQG)**

AUTOMATIC TRANSMISSION INTERNAL COMPONENTS (MYC OR MYD)

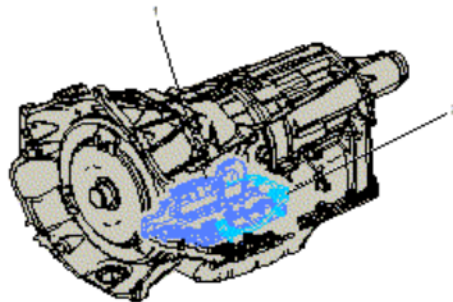


Fig. 14: Electronic Component Views

Courtesy of GENERAL MOTORS COMPANY

Items

1. Q8 Control Solenoid Valve Assembly (MYC or MYD) **Q8 Control Solenoid Valve Assembly**
2. B14A Transmission Output Shaft Speed Sensor

AUTOMATIC TRANSMISSION CASE COMPONENTS (M5U)

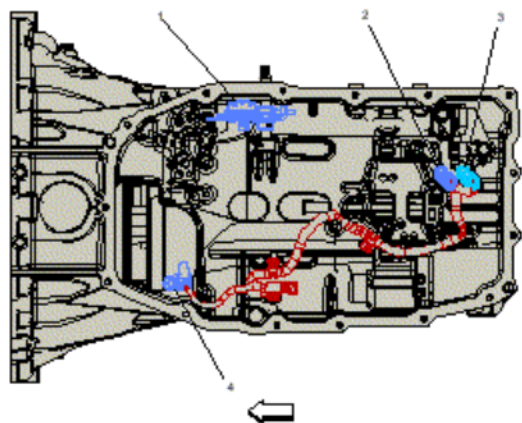


Fig. 15: Automatic Transmission Case Components (M5U)
Courtesy of GENERAL MOTORS COMPANY

Items
1. B15 Transmission Internal Mode Switch (M5U, MW7, MYC or MYD) <u>B15 Transmission Internal Mode Switch (M5U/M5X)</u>
2. B14D Transmission Intermediate Shaft Speed Sensor (M5U)
3. B14A Transmission Output Shaft Speed Sensor
4. B14C Transmission Input Shaft Speed Sensor (M5U, MYC or MYD)

AUTOMATIC TRANSMISSION VALVE BODY COMPONENTS (M5U)

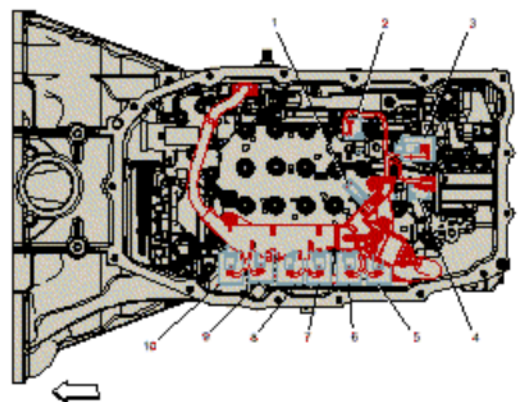


Fig. 16: Automatic Transmission Valve Body Components (M5U)
Courtesy of GENERAL MOTORS COMPANY

Items
1. B13 Transmission Fluid Temperature Sensor (M5U, MW7, MYC or MYD)

Items

2. Q77H Transmission Control Solenoid Valve 8 (M5U)
3. Q77F Transmission Control Solenoid Valve 6 (M5U)
4. Q77J Transmission Control Solenoid Valve 9 (M5U)
5. Q77B Transmission Control Solenoid Valve 2 (M5U)
6. Q77A Transmission Control Solenoid Valve 1 (M5U)
7. Q77E Transmission Control Solenoid Valve 5 (M5U)
8. Q77C Transmission Control Solenoid Valve 3 (M5U)
9. Q77D Transmission Control Solenoid Valve 4 (M5U)
10. Q77G Transmission Control Solenoid Valve 7 (M5U)

LEFT SIDE OF TRANSMISSION COMPONENTS (M5X)

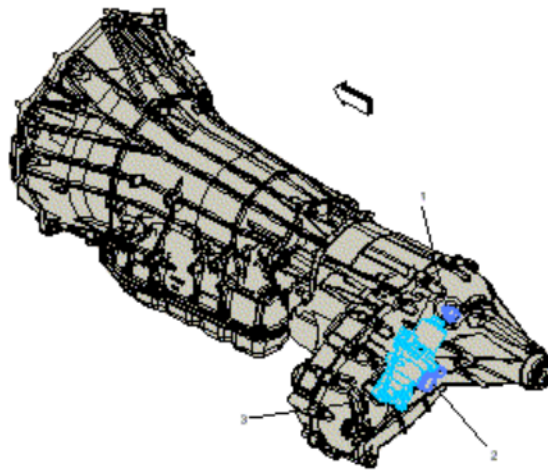


Fig. 17: Left Side of Transmission Components (M5X)

Courtesy of GENERAL MOTORS COMPANY

Items

1. B115 Vehicle Speed Sensor (NQF, NQG or NQH) **B115 Vehicle Speed Sensor (L5P+NQF+MW7)** **B115 Vehicle Speed Sensor (L5P+NQG+MW7)** **B115 Vehicle Speed Sensor (LC8/L96&NQF)** **B115 Vehicle Speed Sensor (LC8/L96&NQG)**
2. B227 Gear Position Sensor (NQH) **B227 Gear Position Sensor**
3. A16 Transfer Case Motor (NQF or NQH) **A16 Transfer Case Motor (L5P)** **A16 Transfer Case Motor (L96)** **A16 Transfer Case Motor**

LEFT SIDE OF TRANSMISSION COMPONENTS (MW7)

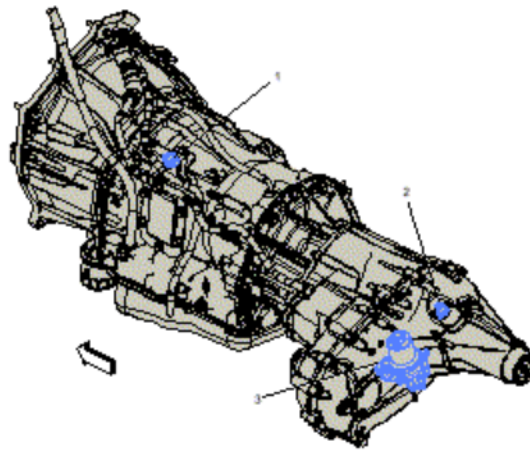


Fig. 18: Left Side of Transmission Components (MW7)

Courtesy of GENERAL MOTORS COMPANY

Items

1. B14B Transmission Turbine Speed Sensor (MW7) **B14B Transmission Turbine Speed Sensor (L5P)**
2. B14A Transmission Output Shaft Speed Sensor **B14A Transmission Output Shaft Speed Sensor (LV1+(C67/C42)) B14A Transmission Output Shaft Speed Sensor (LV3)**
3. A16 Transfer Case Motor (NQF or NQH) **A16 Transfer Case Motor (L5P) A16 Transfer Case Motor (L96) A16 Transfer Case Motor**

Article GUID: A00854604