# 2012 CHEVROLET CRUZE 1.8L 4 CIL
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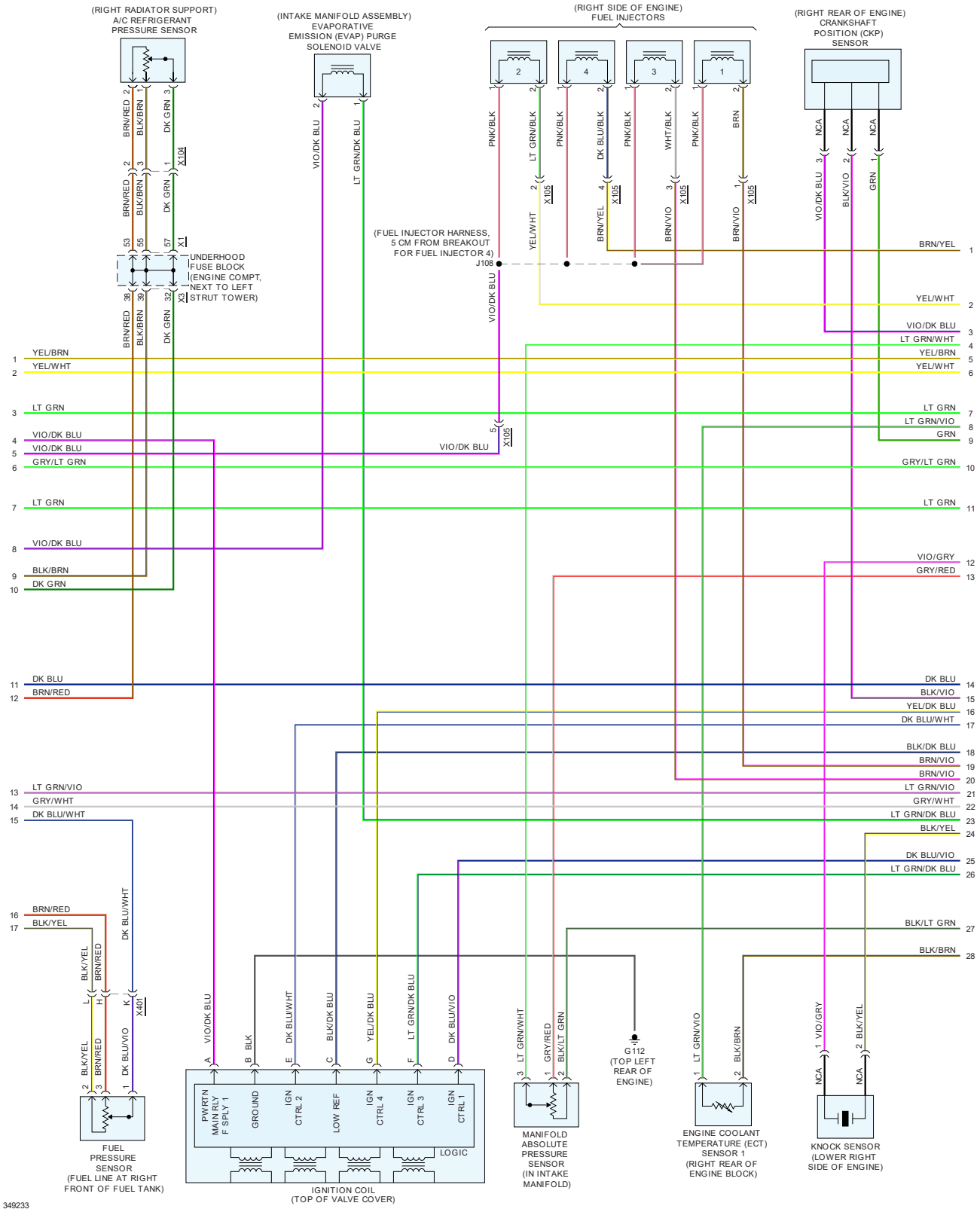
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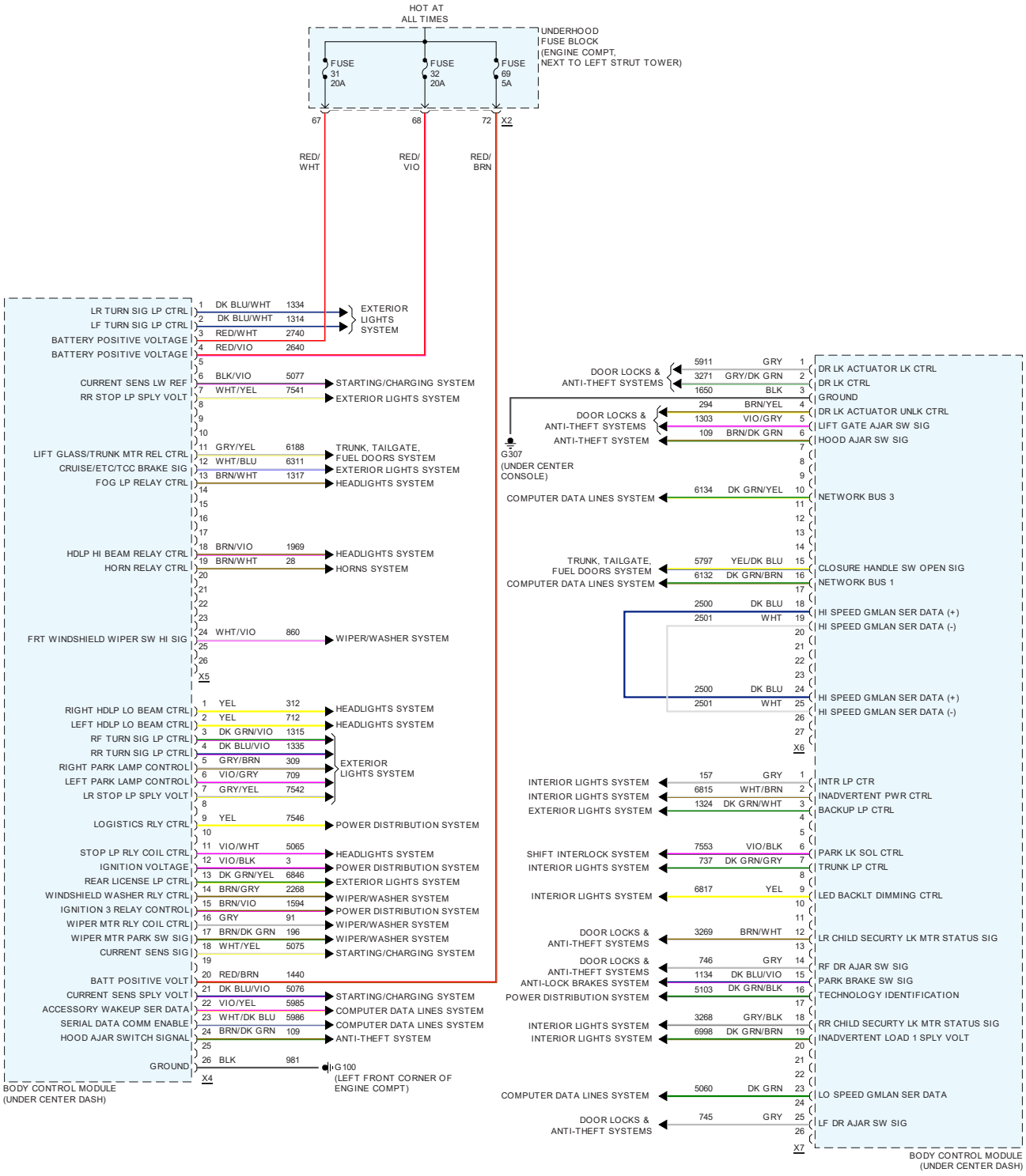
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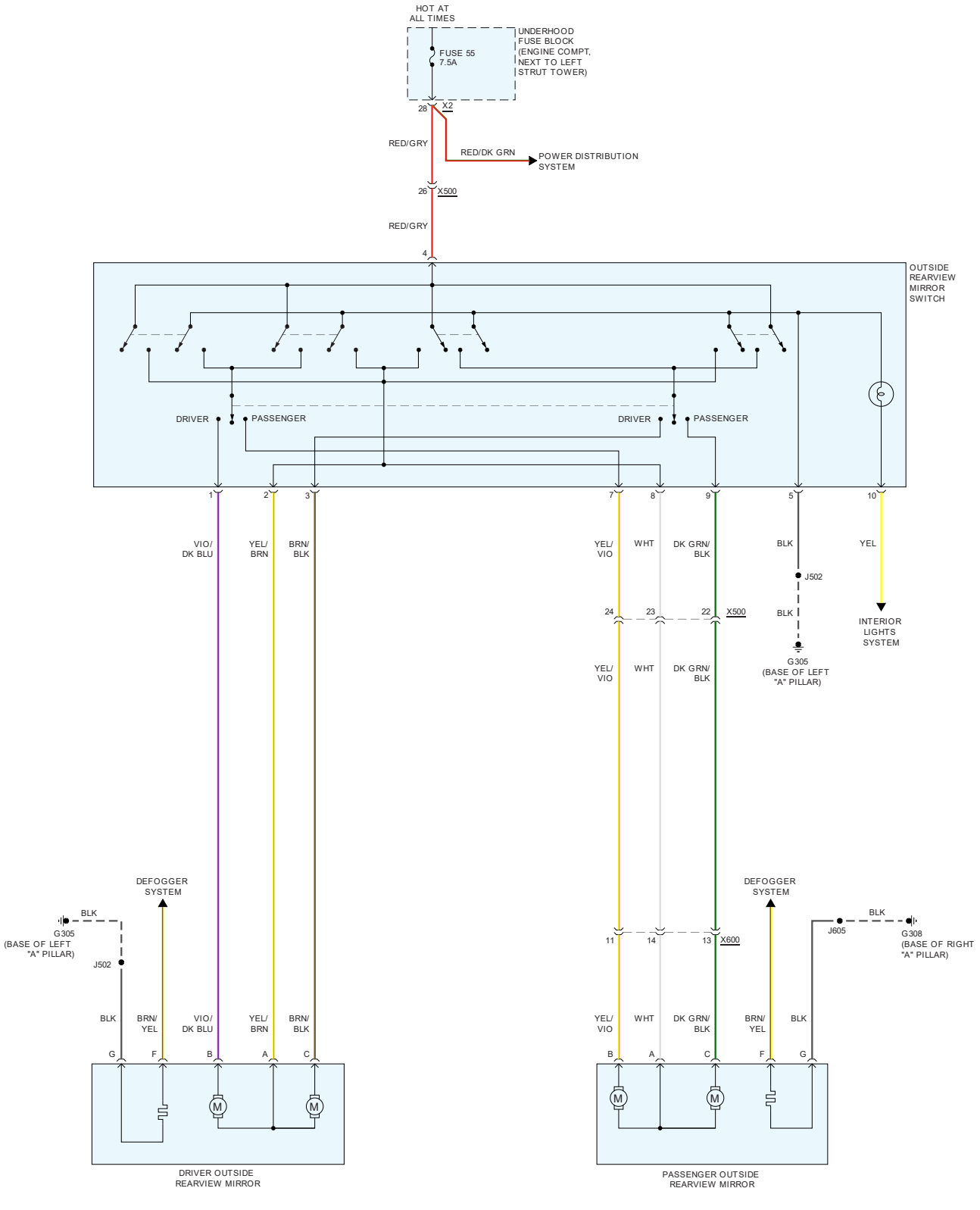
# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# ENGINE CONTROL MODULE



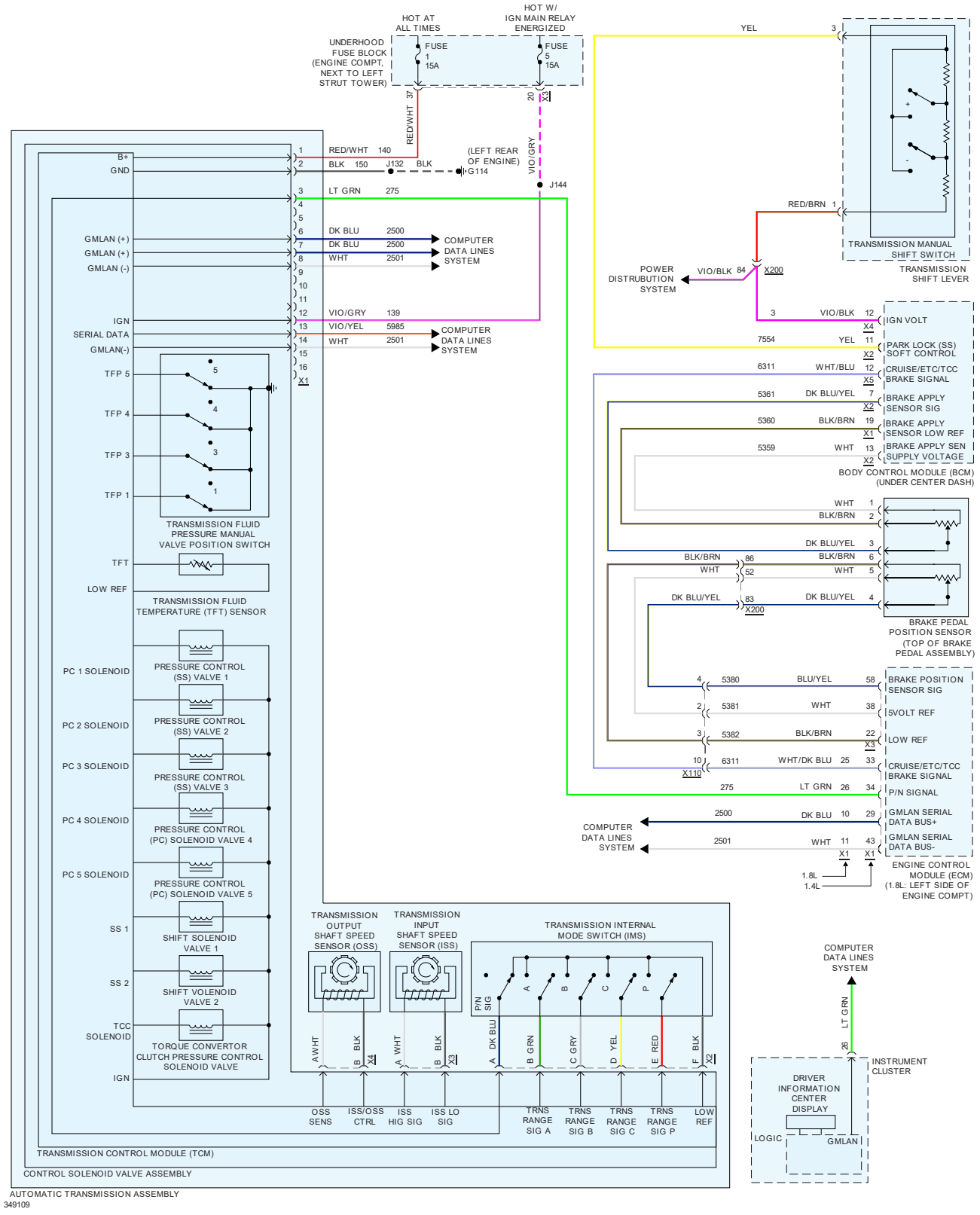
# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# BODY CONTROL MODULE



# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# MIRRORS - POWER MIRRORS CIRCUIT

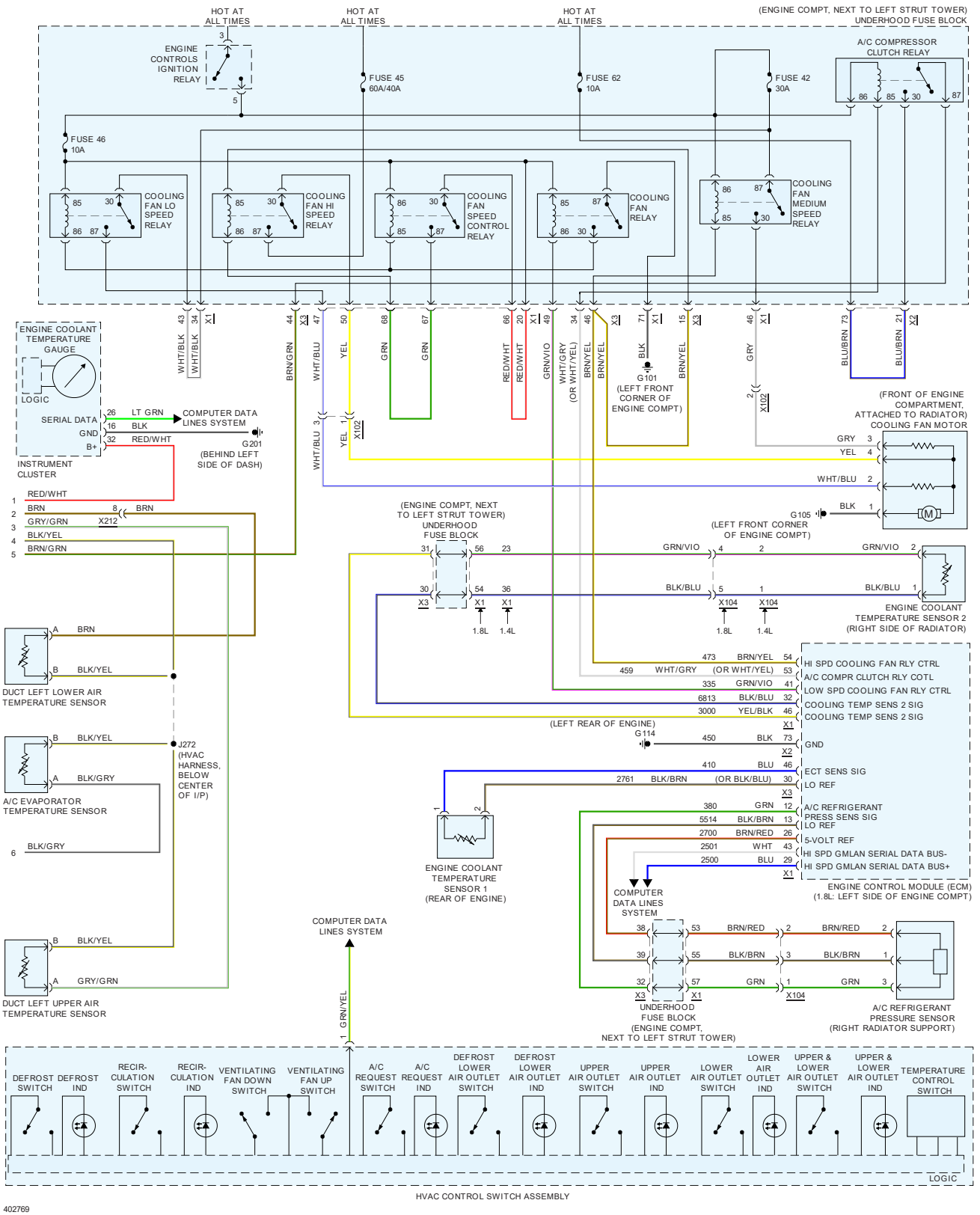


# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# TRANSMISSIONS

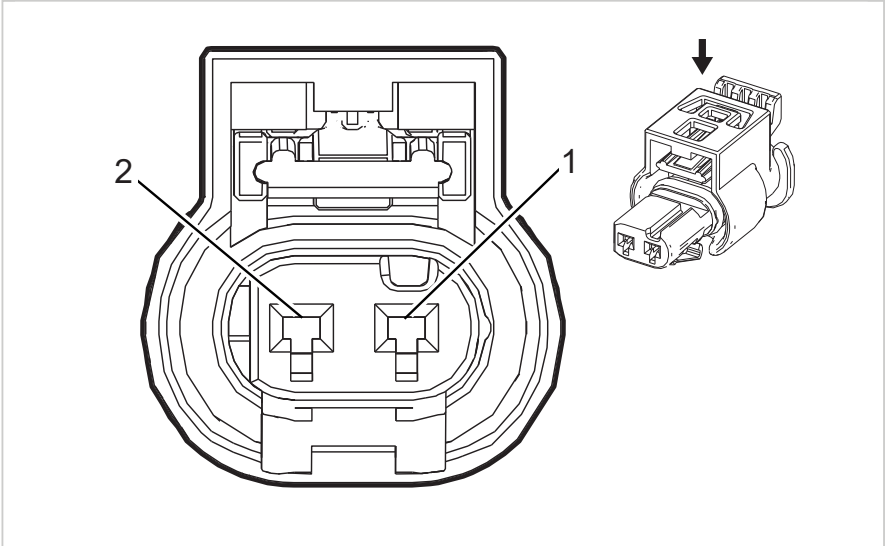


# 2012 CHEVROLET CRUZE 1.8L 4 CIL

## AIR CONDITIONING - AUTOMATIC A/C CIRCUIT (LATE PRODUCTION)



# 2012 CHEVROLET CRUZE 1.8L 4 CIL
## CAMSHAFT POSITION ACTUATOR SOLENOID VALVE - EXHAUST (LUJ)




**Connector Part Information**

- Harness Type: Engine
- OEM Connector: 55564248
- Service Connector: 13577537
- Description: 2-Way F 1.2 MLK Series, Sealed (BK)

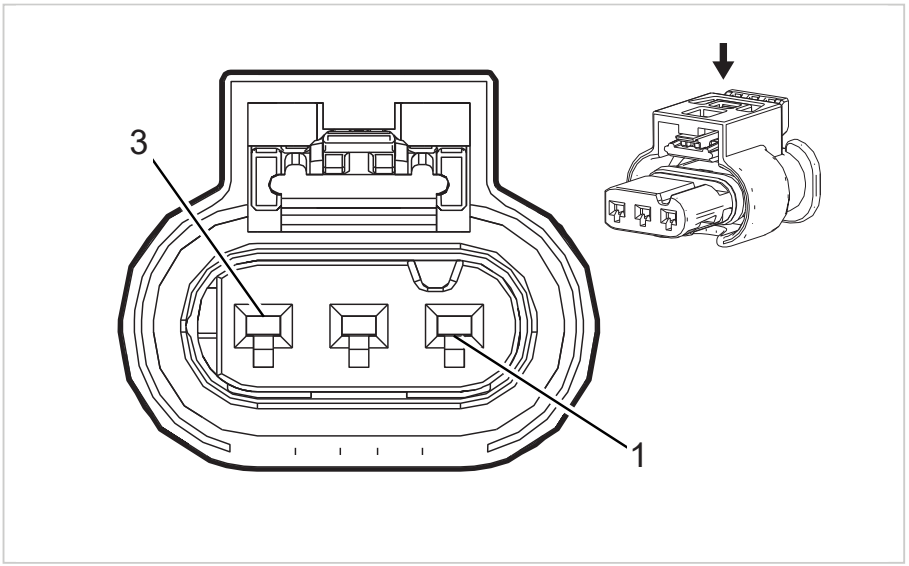
**Terminal Part Information**

- Terminated Lead: 13576385
- Release Tool: J-38125-21
- Diagnostic Test Probe: J-35616-16 (L-GN)
- Terminal/Tray: Not Available
- Core/Insulation Crimp: Not Available

**Q6E Camshaft Position Actuator Solenoid Valve – Exhaust (LUJ)**

| Pin | Wire | Circuit | Function |
|---|---|---|---|
| 1 | 0.5 BK/VT | 6754 | Low Reference |
| 2 | 0.5 GY/D-BU | 5282 | Camshaft Phaser Exhaust Solenoid (1) |

# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# CAMSHAFT POSITION SENSOR - INTAKE (LUJ)




**Connector Part Information**

- Harness Type: Engine
- OEM Connector: 13276381
- Service Connector: 13337975
- Description: 3-Way F MLK 1.2 Series, Sealed (BK)

**Terminal Part Information**

- Terminated Lead: 13575575
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp: J/J

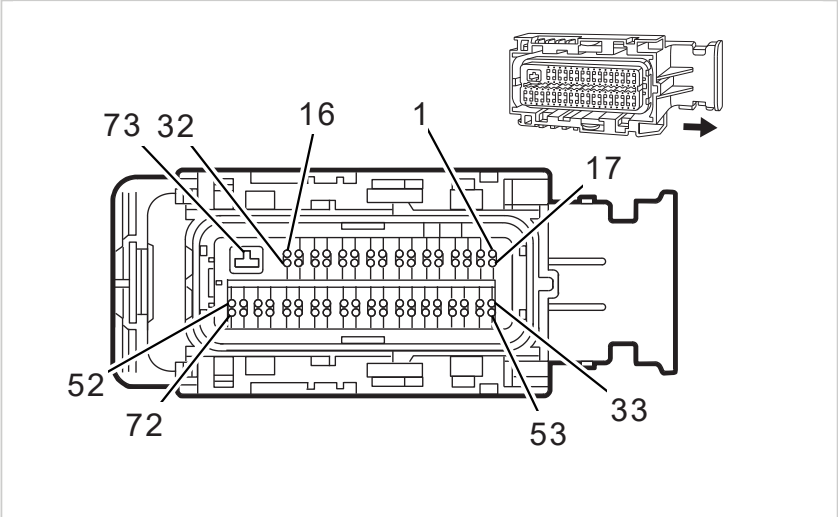
**B23F Camshaft Position Sensor – Intake (LUJ)**

| Pin | Wire | Circuit | Function |
|---|---|---|---|
| 1 | 0.5 GY/D-BU | 5300 | Camshaft Position Intake Sensor Supply Voltage (1) |
| 2 | 0.5 BK/D-GN | 5301 | Camshaft Position Intake Sensor Low Reference (1) |
| 3 | 0.5 YE/VT | 5275 | Camshaft Position Intake Sensor (1) |

# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# PIN OUT ENGINE CONTROL MODULE X1 (LUW)

| Pin | Wire | Circuit | Function |
|---|---|---|---|
| 3 | 0.75 VT/L-BU | 5290 | Powertrain Main Relay Fused Supply (1) |
| 4 | 0.5 WH/GY | 459 | A/C Compressor Clutch Relay Control |
| 5 | 0.5 WH/RD | 1164 | Accelerator Pedal Position 5 Volt Reference (1) |
| 6 | 0.75 WH | 1310 | EVAP Canister Vent Solenoid Control |
| 7 | 0.5 GY/BK | 3097 | 5 Volt Reference (MZ0) |
| 8–9 | — | — | Not Used |
| 10 | 0.5 D-BU | 2500 | High Speed GMLAN Serial Data (+) (1) |
| 11 | 0.5 WH | 2501 | High Speed GMLAN Serial Data (-) (1) |
| 12 | 0.75 RD/WH | 140 | Battery Positive Voltage |
| 13 | — | — | Not Used |
| 14 | 0.75 VT/GY | 139 | Run/Crank Ignition 1 Voltage |
| 15 | 0.5 BN/YE | 473 | High Speed Cooling Fan Relay Control |
| 16 | 0.5 YE | 5991 | Powertrain Relay Coil Control |
| 17–18 | — | — | Not Used |
| 19 | 0.5 BN/RD | 1274 | Accelerator Pedal Position 5 Volt Reference (2) |
| 20 | 0.5 BK/L-BU | 1271 | Accelerator Pedal Position Low Reference (1) |
| 21 | 0.5 BK/VT | 1272 | Accelerator Pedal Position Low Reference (2) |
| 22 | — | — | Not Used |
| 23 | 0.5 BK/GY | 6110 | Clutch Apply Sensor Low Reference (MZ0) |
| 24 | 0.5 BK/VT | 2760 | Intake Air Temperature Sensor Low Reference |
| 25 | 0.5 WH/D-BU | 6311 | Cruise/ETC/TCC Brake Signal |
| 26 | 0.5 D-GN | 275 | Park Neutral Position Switch Park Signal (MH8) |
| 27 | 0.5 L-GN | 3098 | Output Speed (Digital) Signal (MZ0) |
| 28 | 0.5 L-GN/WH | 5007 | Reverse Switch Signal (MZ0) |
| 29 | 0.5 YE/BK | 625 | Starter Enable Relay Control |

# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# PIN OUT ENGINE CONTROL MODULE X3 (LUJ)




**Connector Part Information**

- Harness Type: Engine
- OEM Connector: 12582678
- Service Connector: 88988372
- Description: 73-Way F 0.64 2.8 Series, Sealed (BK with GY Terminal Position Assurance Lock)

**Terminal Part Information**

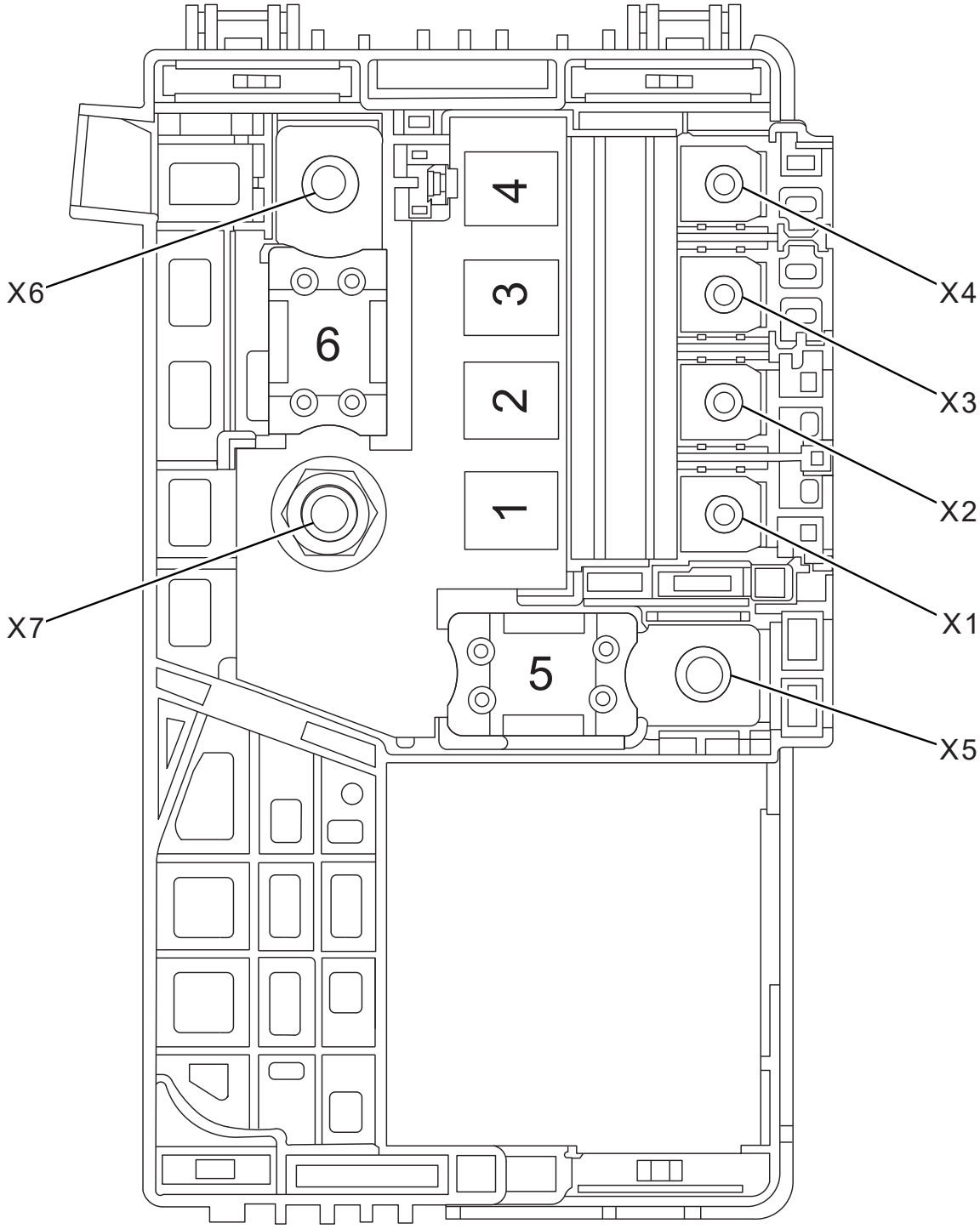
- Pins: 1, 10, 13, 19, 22, 27-29, 35, 38, 43, 45, 55, 58, 63, 64, 67, 68
- Terminated Lead: 13575812
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp: J/J

- Pins: 15, 17, 30, 32, 46
- Terminated Lead: 13575812
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp: K/K

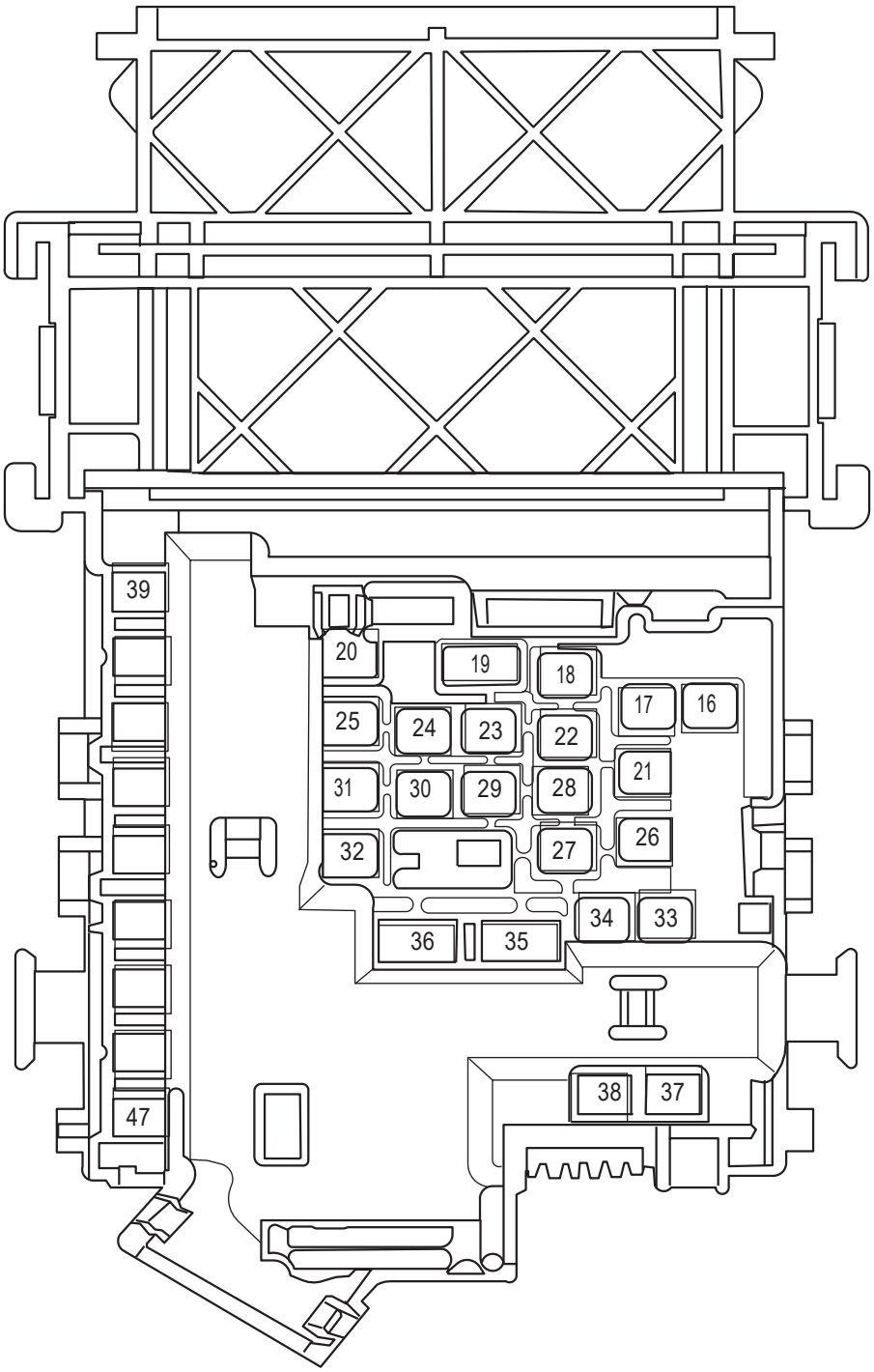
**K20 Engine Control Module X3 (LUJ)**

| Pin | Wire | Circuit | Function |
|---|---|---|---|
| 1 | 0.5 GN/WH | 5007 | Reverse Switch Signal (MF3) |
| 2-9 | — | — | Not Used |
| 10 | 0.5 L-GN/L-BU | 428 | EVAP Canister Purge Solenoid Control |

# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# FUSE BLOCK - BATTERY TOP VIEW



# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# FUSE BLOCK - INSTRUMENT PANEL BOTTOM VIEW FUSES



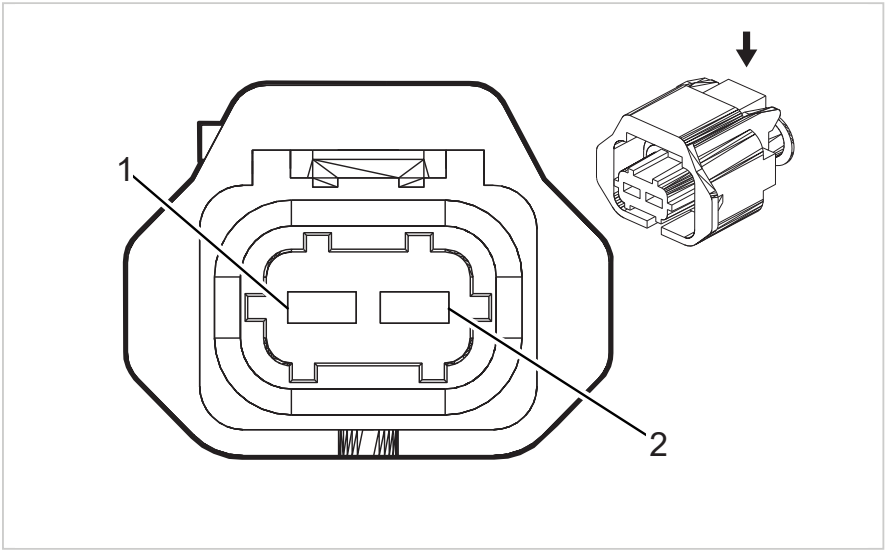
# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# FUSE BLOCK - UNDERHOOD LABEL

| No. | Device Label Name | Device Assigned Name | Rating | Description |
|---|---|---|---|---|
| 26 | — | F26UA Fuse | 40A | K17 Electronic Brake Control Module |
| 27 | — | F27UA Fuse | — | Not Used |
| 28 | — | F28UA Fuse | 40A | E18 Rear Defogger Grid |
| 29 | — | F29UA Fuse | — | Not Used |
| 30 | — | F30UA Fuse | 15A | K17 Electronic Brake Control Module |
| 31 | — | F31UA Fuse | 20A | Body Control Module |
| 32 | — | F32UA Fuse | 20A | K9 Body Control Module |
| 33 | — | F33UA Fuse | 30A | K29 Seat Heating Control Module (KA1) |
| 34 | — | F34UA Fuse | 25A | K61 Sunroof Control Module (CF5) |
| 35 | — | F35UA Fuse | 30A | T3 Audio Amplifier (UQA) |
| 36 | — | F36UA Fuse | — | Not Used |
| 37 | — | F37UA Fuse | 10A | E13R Headlamp – Right |
| 38 | — | F38UA Fuse | 10A | E13L Headlamp – Left |
| 39 | — | F39UA Fuse | — | Not Used |
| 40 | — | F40UA Fuse | — | Not Used |
| 41 | — | F41UA Fuse | — | Not Used |
| 42 | — | F42UA Fuse | 20A/30A | KR20A Cooling Fan Medium Speed 1 Relay, KR20B Cooling Fan Medium Speed 2 Relay |
| 43 | — | F43UA Fuse | — | Not Used |
| 44 | — | F44UA Fuse | — | Not Used |
| 45 | — | F45UA Fuse | 30A/40A | KR20D Cooling Fan High Speed Relay |
| 46 | — | F46UA Fuse | 10A | KR20B Cooling Fan Medium Speed 2 Relay, KR20E Cooling Fan Speed Control Relay, KR20F Cooling Fan Relay |

# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# FUSE BLOCK - UNDERHOOD X3 (LUJ)

| Pin | Wire | Circuit | Function |
|---|---|---|---|
| 1 | 2.5 RD/D-BU | 5290 | Powertrain Main Relay Fused Supply (1) |
| 2 | 1 RD/D-BU | 5291 | Powertrain Main Relay Fused Supply (2) |
| 3–4 | – | – | Not Used |
| 5 | 2.5 YE | 6 | Starter Solenoid Crank Voltage |
| 6 | 1 RD/WH | 5293 | Powertrain Main Relay Fused Supply (4) |
| 7 | 0.75 VT/BN | 5294 | Powertrain Main Relay Fused Supply (5) |
| 8 | – | – | Not Used |
| 9 | 0.5 BK | 150 | Ground |
| 10 | – | – | Not Used |
| 11 | 0.5 YE/BK | 625 | Starter Enable Relay Control |
| 12–14 | – | – | Not Used |
| 15 | 0.5 BN/YE | 473 | High Speed Cooling Fan Relay Control |
| 16 | – | – | Not Used |
| 17 | 0.5 YE | 5991 | Powertrain Relay Coil Control |
| 18–19 | – | – | Not Used |
| 20 | 0.75 VT/D-BU | 139 | Run/Crank Ignition 1 Voltage |
| 21 | 0.5 BK | 150 | Ground |
| 22–26 | – | – | Not Used |
| 27 | 0.75 RD/WH | 140 | Battery Positive Voltage |
| 28–29 | – | – | Not Used |
| 30 | 0.5 BK/L-BU | 6813 | Coolant Temperature Sensor #2 Low Reference |
| 31 | 0.5 YE/BK | 3000 | Coolant Temperature Sensor #2 Signal |
| 32 | 0.5 L-GN | 380 | A/C Refrigerant Pressure Sensor Signal |
| 33 | – | – | Not Used |
| 34 | 0.75 WH/YE | 459 | A/C Compressor Clutch Relay Control |
| 35 | 0.75 D-BU | 5372 | Canister Valve Solenoid |
| 36 | – | – | Not Used |
| 37 | 0.75 RD/WH | 340 | Battery Positive Voltage (MH8) |
| 38 | 0.5 BN/RD | 2700 | A/C Pressure Sensor 5V Reference |
| 39 | 0.5 BK/BN | 5514 | A/C Refrigerant Pressure Sensor Low Reference |
| 40–45 | – | – | Not Used |

# 2012 CHEVROLET CRUZE 1.8L 4 CIL
# KNOCK SENSOR (LUJ)




**Connector Part Information**

- Harness Type: Engine
- OEM Connector: 13140563
- Service Connector: 13581088
- Description: 2-Way F 2.8 Timer Series, Sealed (NA)

**Terminal Part Information**

- Terminated Lead: 13581346
- Release Tool: J-38125-36
- Diagnostic Test Probe: J-35616-35 (VT)
- Terminal/Tray: 4-964286-1/16
- Core/Insulation Crimp: E/1

**B68 Knock Sensor (LUW)**

| Pin | Wire | Circuit | Function |
|---|---|---|---|
| 1 | 0.5 VT/GY | 496 | Knock Sensor Signal (1) |
| 2 | 0.5 BK/YE | 1716 | Knock Sensor Signal (2) |