

ENGINE WIRING HYDRAULIC BRAKE/DASH/ENGINE HARNESS - TRUCK AND FBC

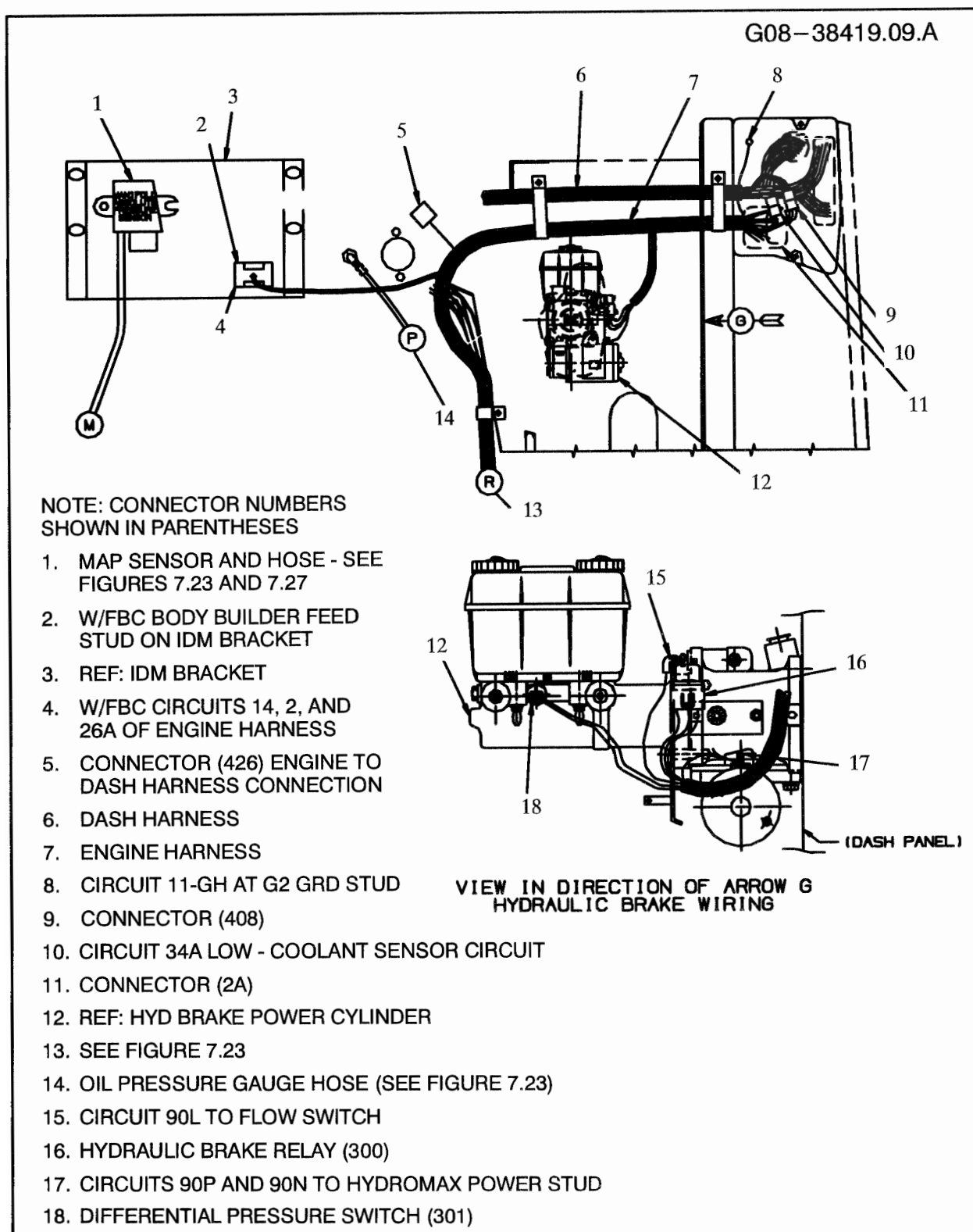


Figure 7.29 – V8 Electronic Engine Wiring (With FBC - For Truck See Figure 7.22)

VEHICLE AND COMPONENT ILLUSTRATIONS

ENGINE WIRING 105/160 AMP ALTERNATORS - TRUCK AND FBC

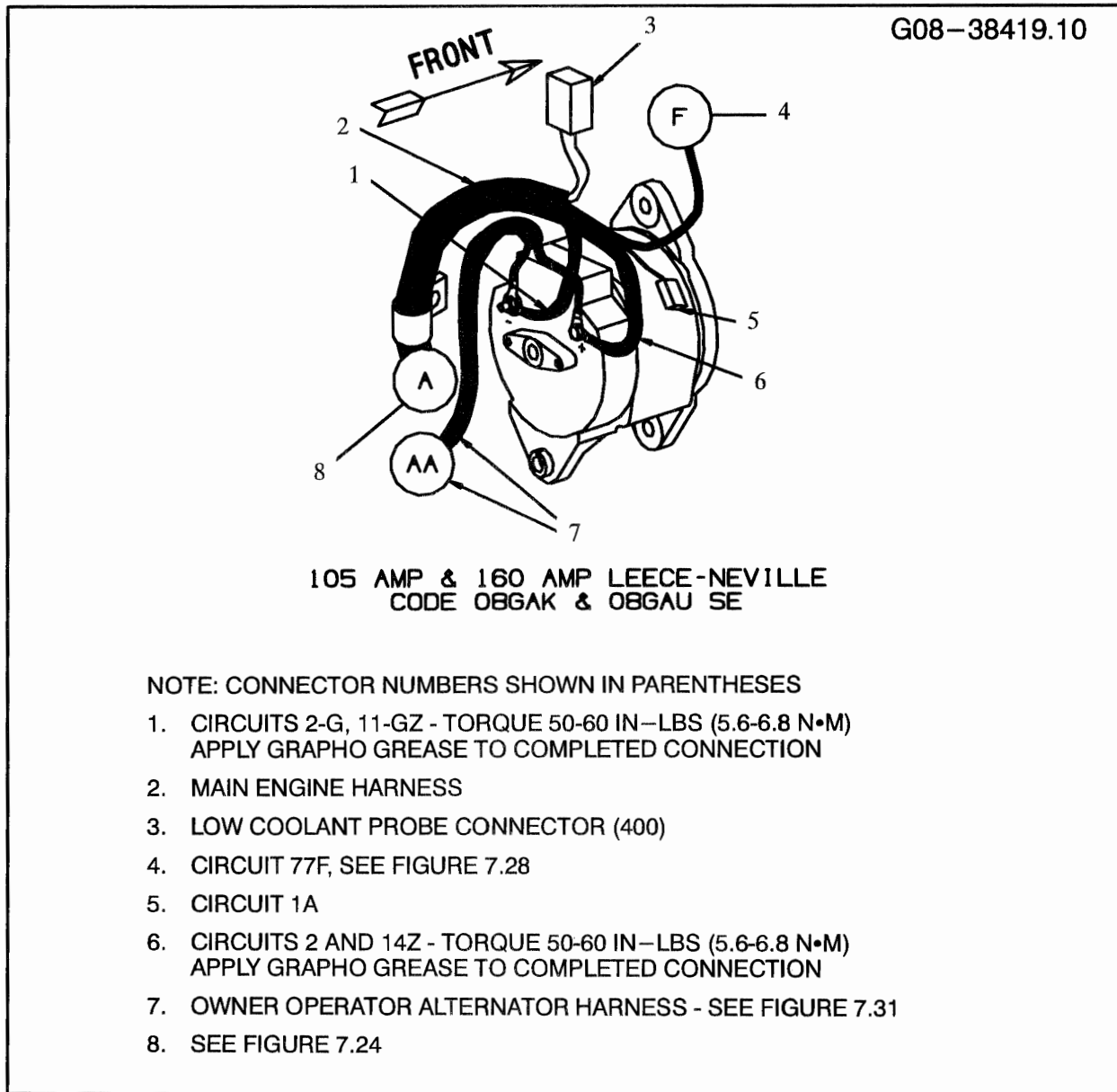


Figure 7.30 – V8 Electronic Engine Wiring (Truck)

ENGINE WIRING - (Truck W/ Leece-Neville 2600JA 12V/160A Alternator W/4 Gauge Protection)

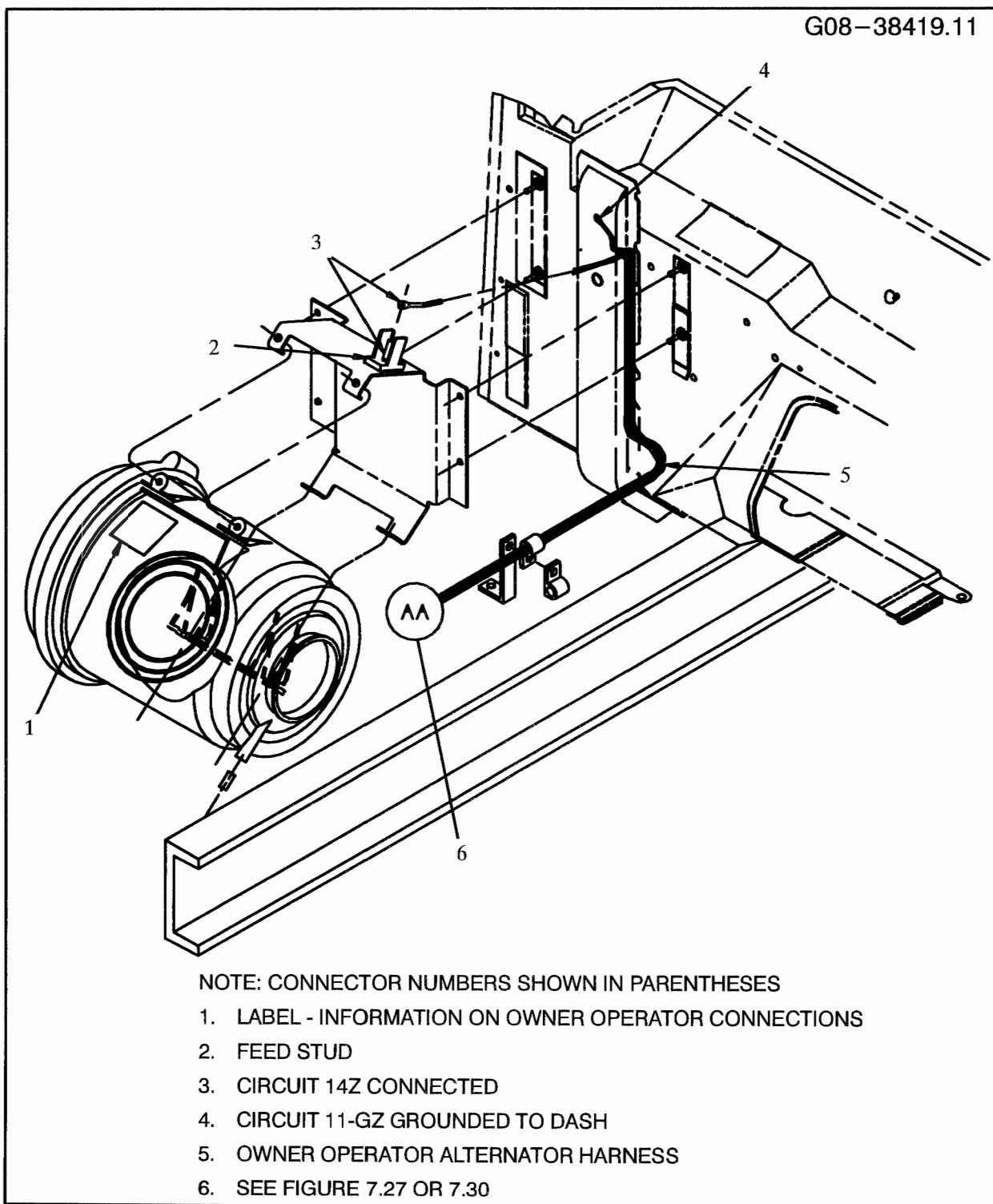


Figure 7.31 – V8 Electronic Engine Wiring (Truck W/ Leece-Neville 2600JA 12V/160A Alternator W/4 Gauge Protection)

ENGINE WIRING BATTERY CABLE/STARTING HARNESS - TRUCK AND FBC

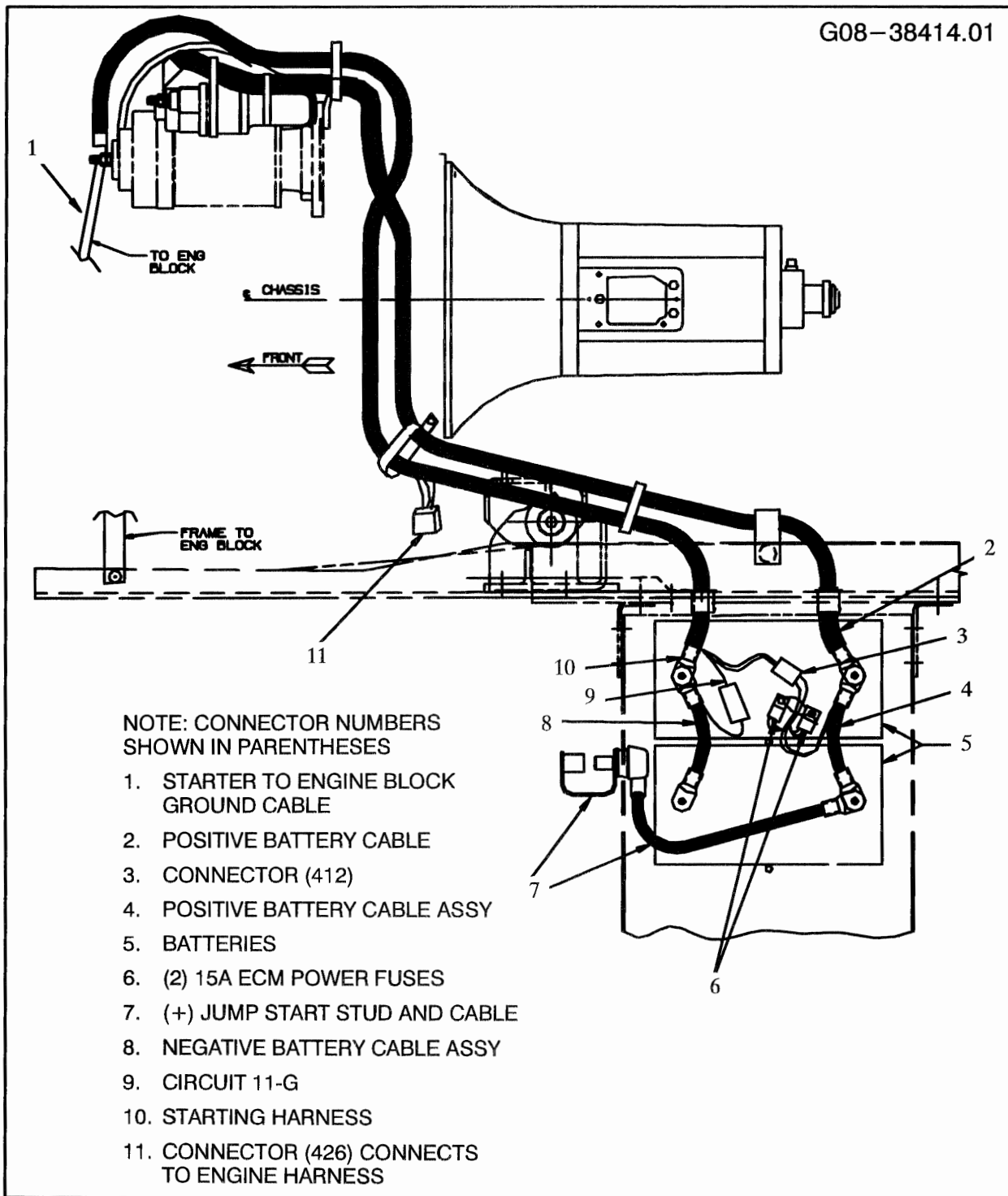
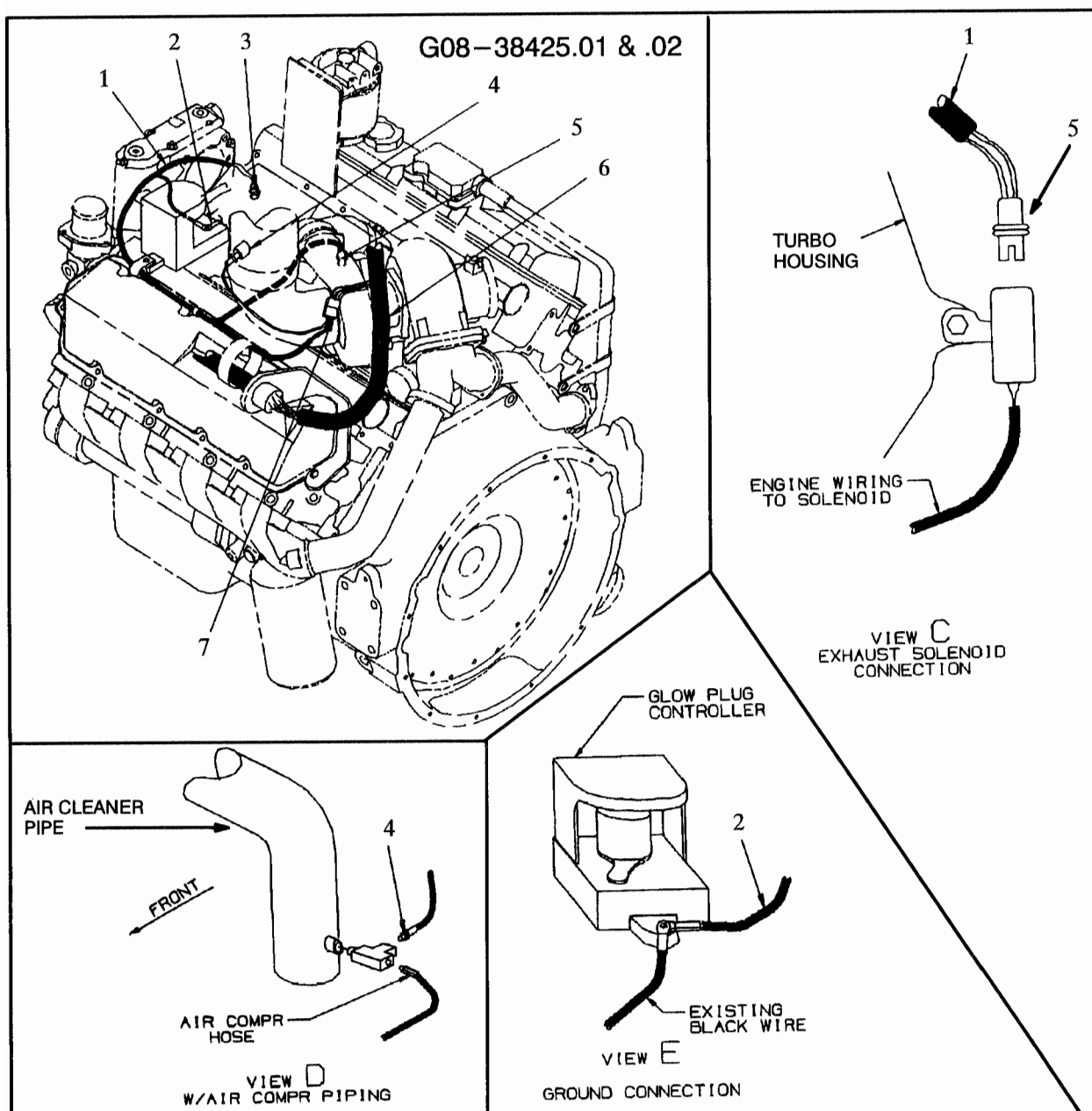


Figure 7.32 – Battery Cable Wiring (Truck And FBC)

ENGINE WIRING EXHAUST BACKPRESSURE/GLOW PLUG RELAY - TRUCK AND FBC

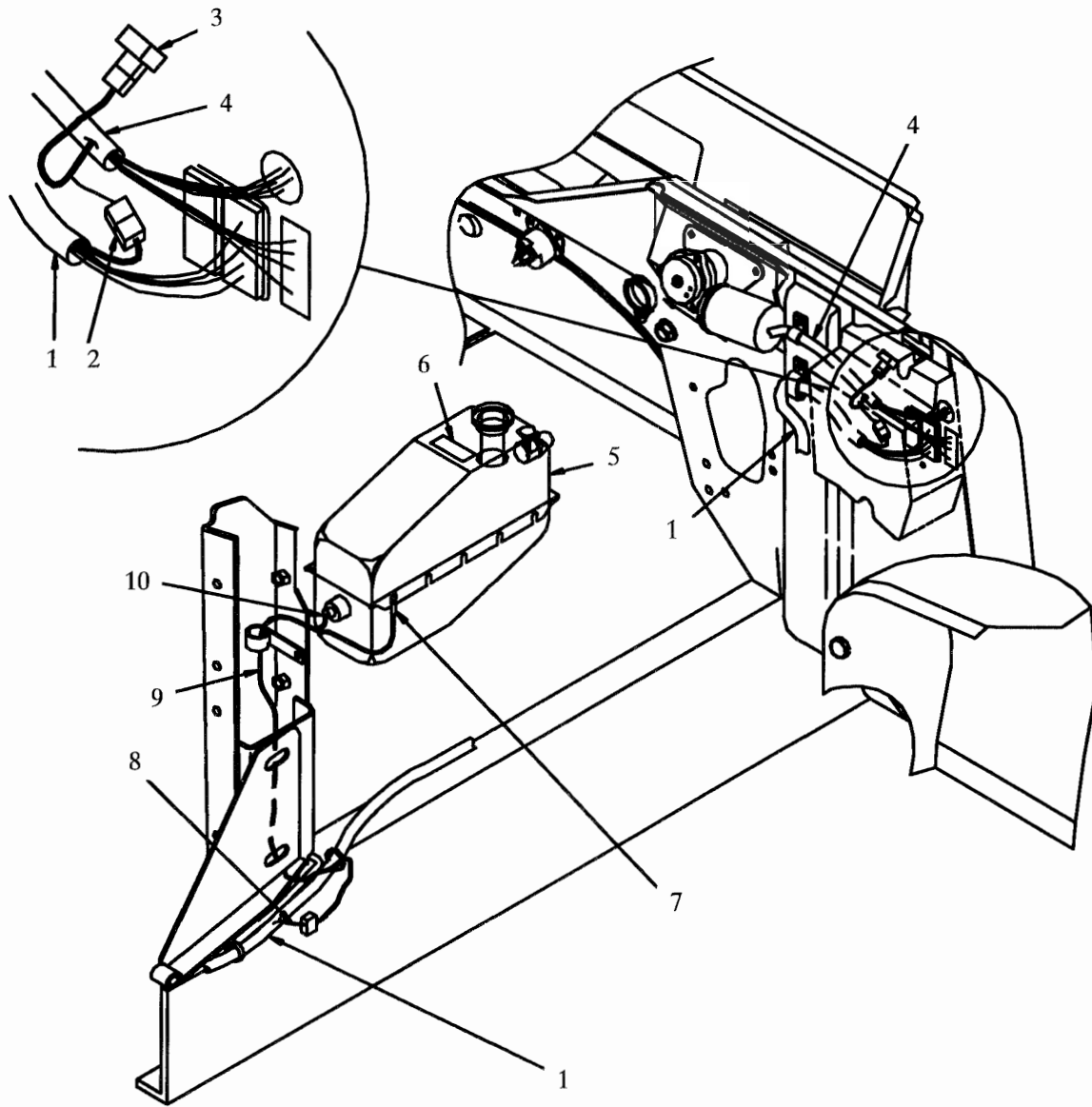


NOTE: CONNECTOR NUMBERS SHOWN IN PARENTHESES

1. EXHAUST BACK PRESSURE HARNESS
2. SEE VIEW E - CIRCUIT 2 OF ITEM 1 CONNECTS TO GLOW PLUG CONTROLLER GROUND STUD
3. CIRCUITS 97CA(5V), 97BC AND 97BD CONNECT TO EXHAUST BACK PRESSURE SENSOR
4. CIRCUITS 97BU AND 97AX CONNECT TO AMBIENT AIR TEMP SENDER (VIEW D)
5. VIEW C - CIRCUITS 97BC AND 97-GP CONNECT TO EXHAUST SOLENOID CONNECTION
6. DASH HARNESS
7. 6-WAY CONNECTOR - 97BD, 97BZ, 97BC, 97BU, 97AX, AND 97CA(5V) BETWEEN ITEMS 1 AND 6

Figure 7.33 – Exhaust Back Pressure Device

ENGINE WIRING COOLANT LEVEL SENSOR - TRUCK AND FBC



NOTE: CONNECTOR NUMBERS SHOWN IN PARENTHESES

1. ENGINE HARNESS
2. CIRCUIT 34A ENGINE TO DASH HARNESS ONE WAY CONNECTOR
3. CLS MODULE CONNECTOR (414)
4. DASH HARNESS
5. SURGE TANK
6. CAUTION LABEL
7. CIRCUIT 34-G
8. CONNECTOR (400)
9. CLS HARNESS
10. CIRCUIT 34A CONNECTS TO PROBE

Figure 7.34 – Coolant Level Sensor (CLS) Wiring (Truck & FBC)

ENGINE WIRING ALLISON AT TRANSMISSION WIRING - TRUCK AND FBC

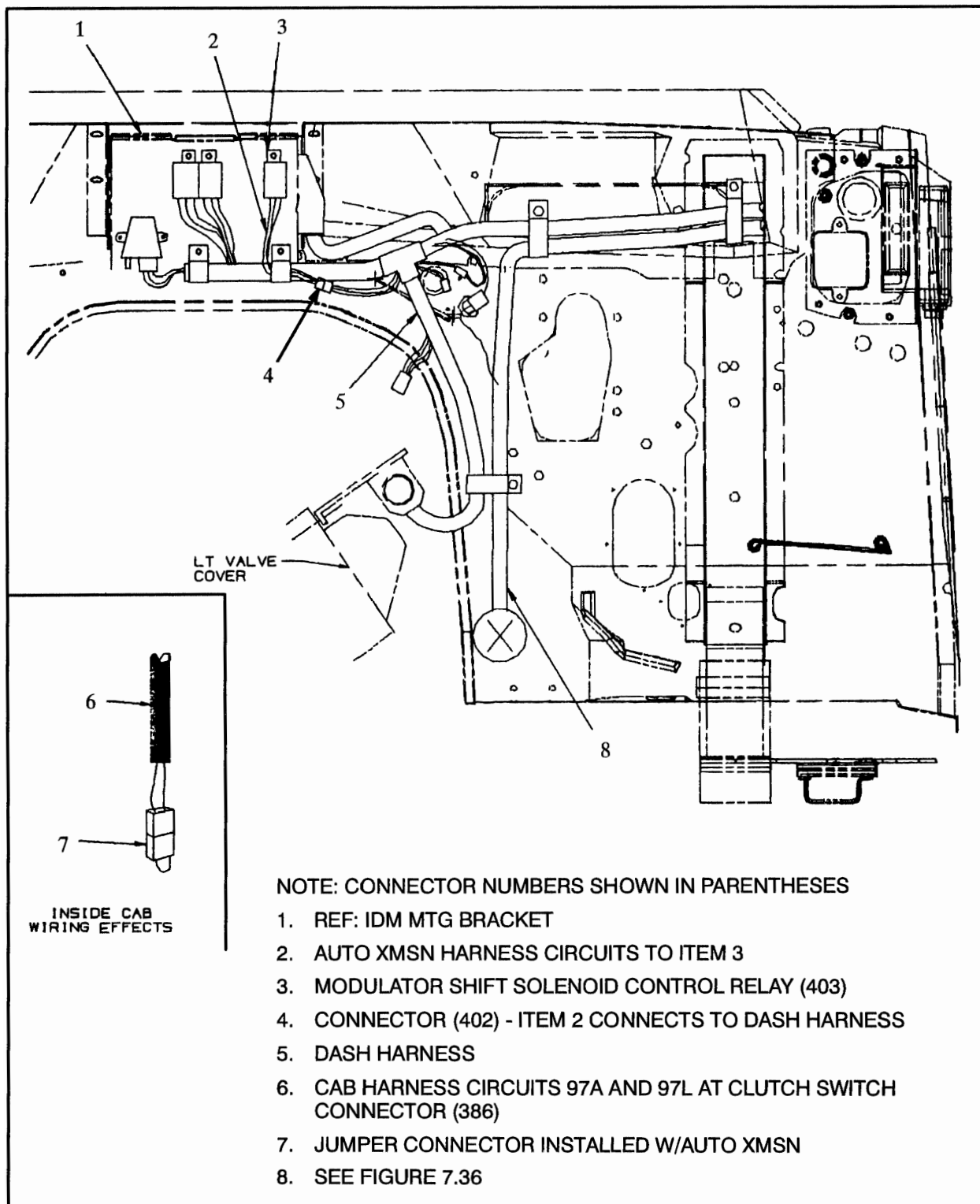
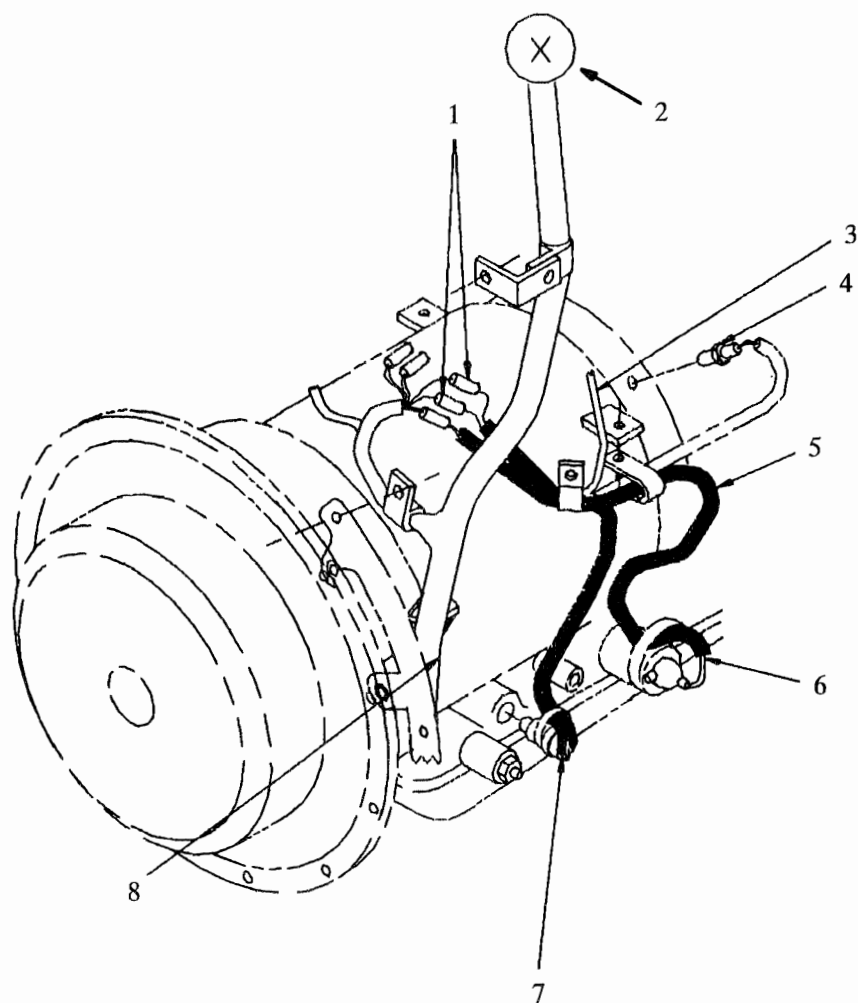


Figure 7.35 – Allison AT Transmission Wiring (Truck & FBC)

VEHICLE AND COMPONENT ILLUSTRATIONS

ENGINE WIRING - TRUCK AND FBC



NOTE: CONNECTOR NUMBERS SHOWN IN PARENTHESES

1. CIRCUITS 97P AND 97AU NEUTRAL SAFETY SWITCH CIRCUITS
2. SEE FIGURE 7.35
3. REF: BACKUP LIGHT SWITCH CABLE
4. VEHICLE SPEED SENSOR
5. AUTO XMSN HARNESS
6. CIRCUIT 92C AND 92-G TO ALLISON TRANSMISSION MODULATOR SOLENOID
7. NEUTRAL SAFETY SWITCH
8. ENGINE HARNESS

Figure 7.36 – Allison AT Transmission Wiring (Truck & FBC)

1652SC WIRING – PLATFORM WIRE HARNESS

With the 1652SC, wiring is divided into three areas: Platform Harness Wiring, Dash Harness Wiring, and Engine Harness wiring. The location of many platform components is approximate as they are installed by the various body builders.

PLATFORM HARNESS WIRING

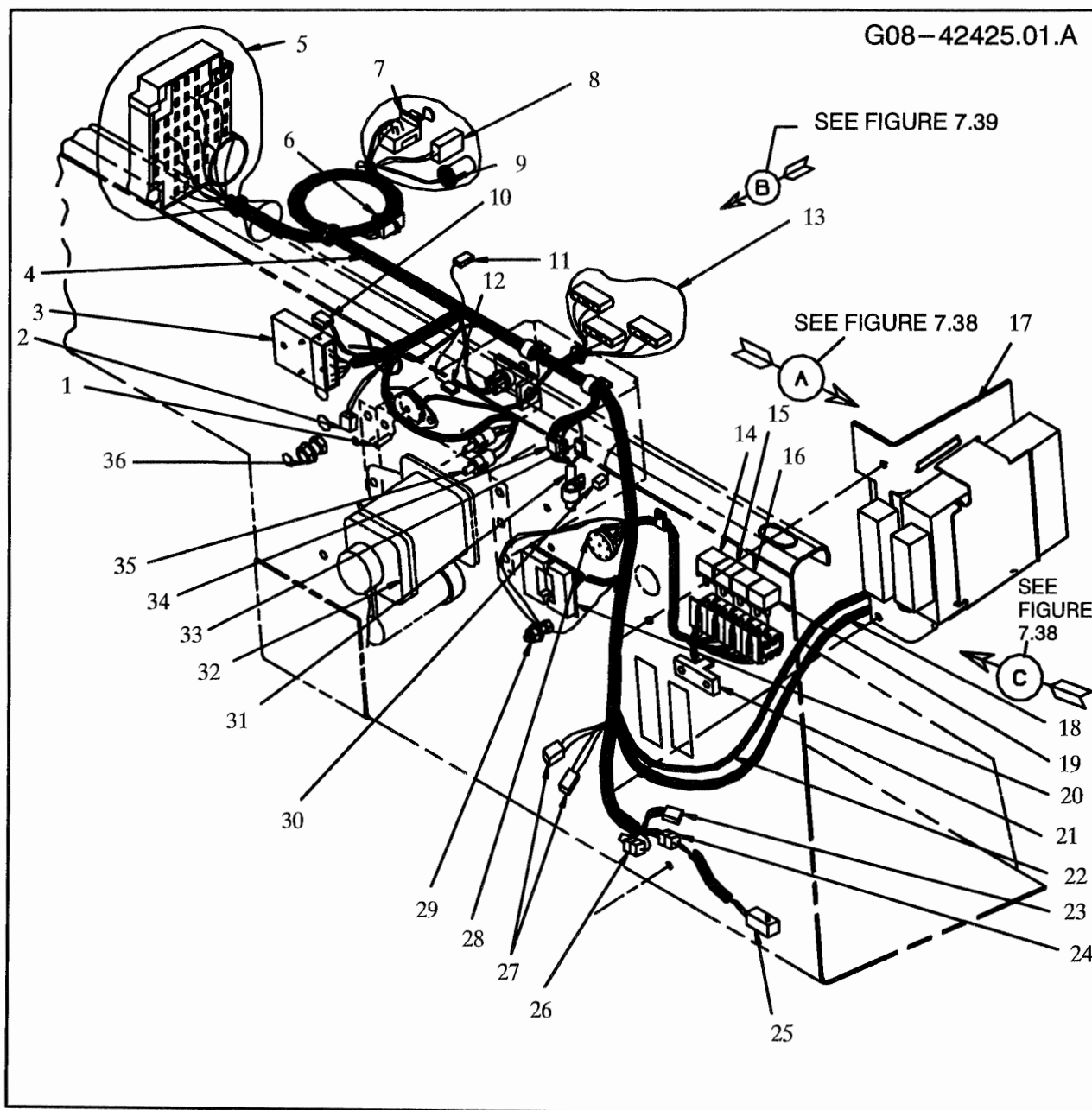


Figure 7.37 – Platform Wire Harness (See next page for callouts)

VEHICLE AND COMPONENT ILLUSTRATIONS

PLATFORM HARNESS WIRING (Continued)

Platform Wire Harness (Callouts)

- | | |
|---|---|
| 1. CIR 14, BATTERY FEED TO J1 FEED STUD, CONNECTS TO THE ENGINE HARNESS | 17. ECM/IDM/VPM ASSY – SEE FIGURES 7.38, 7.44 AND 7.45 |
| 2. (382) ACCELERATOR PEDAL SENSOR (APS/IVS) CONNECTS TO CAB HARNESS | 18. (384) EST (DATA) LINK CONNECTOR IS ATTACHED TO MODULE BRACKET – FIGURE 7.38 |
| 3. (49) HYDRAULIC BRAKE MONITOR | 19. (393) BRAKE RELAY |
| 4. MAIN WIRING HARNESS | 20. (2) DASH CONNECTOR |
| 5. FUSE BLOCK – SEE FIGURE 7.42 (NOT SHOWN IN MOUNTED POSITION) | 21. J1 FEED STUD – CIR 14A, 14C, 15, 50 |
| 6. (406) BAROMETRIC AIR PRESSURE SENSOR (BARO) | 22. (381) CONNECTS PLATFORM HARNESS TO VPM – FIGURE 7.38 |
| 7. (60) LIGHT SWITCH (NOT SHOWN IN MOUNTED POSITION) | 23. (194) BODY BUILDER CONNECTOR |
| 8. (394) CRUISE CONTROL CONNECTOR (NOT SHOWN IN MOUNTED POSITION) – SEE FIGURE 7.43 | 24. (17) DIMMER SWITCH CONNECTOR |
| 9. (375) STI DIAGNOSTIC SWITCH (NOT SHOWN IN MOUNTED POSITION) | 25. DIMMER SWITCH |
| 10. (47) HYD BRAKE BLOCKING DIODE ASSY. | 26. STARTER INTERRUPT CONNECTOR (W/O AUTO TRANS CIR 17 CONNECTS TO 17A) |
| 11. CIR 62E TO AUTOMATIC TRANSMISSION LIGHT | 27. (427) RED AND (428) BLUE ATA CONNECTORS |
| 12. CIR 44/44A CONNECTS TO GROUND TERMINAL OF KEY SWITCH | 28. (3 & 3A) DASH CONNECTOR (DEUTSCH) |
| 13. INSTRUMENT CLUSTER CONNECTORS (26) YELLOW, (27) GREEN, (28) NATURAL | 29. G2 GRD STUD – CIR 11–GD, 11–G, 36–G, 97–GK, 97–GQ |
| 14. (20) ALARM WARNING BUZZER | 30. CIR 44 TO PARK BRAKE SWITCH – FIGURE 7.40 |
| 15. (385) TIME DELAY CRANK RELAY | 31. CABLE TO TURN SIGNAL SWITCH |
| 16. (61) HORN RELAY | 32. HYDRAULIC BRAKE BOOSTER |
| | 33. HORN CIR 85A |
| | 34. (58) TURN SIGNAL CONNECTOR |
| | 35. STOP LIGHT SWITCHES – FIGURE 7.40 |
| | 36. REF: MECHANICAL OIL PRESSURE GAUGE HOSE CONNECTION |

EST (DATA LINK)/VPM CONNECTIONS/ACCELERATOR PEDAL/STOP LIGHT SWITCH WIRING

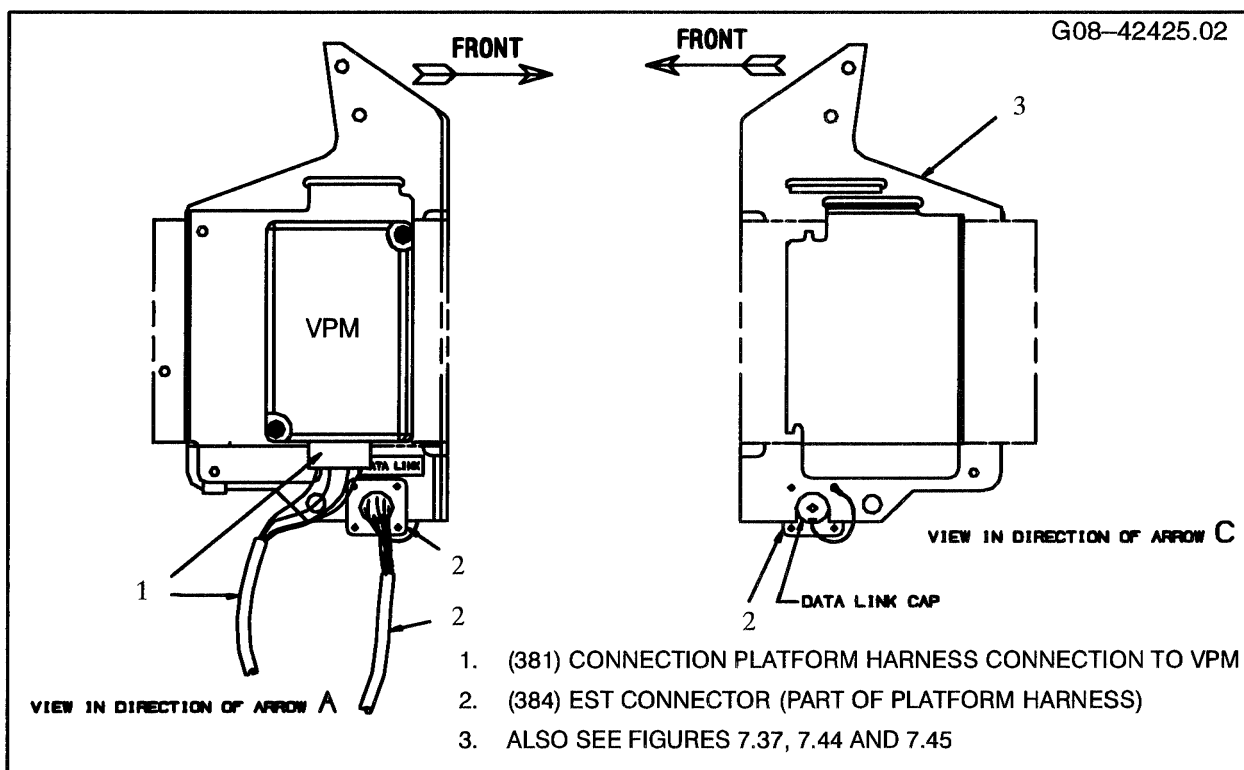


Figure 7.38 – EST (Data Link) and VPM Connections

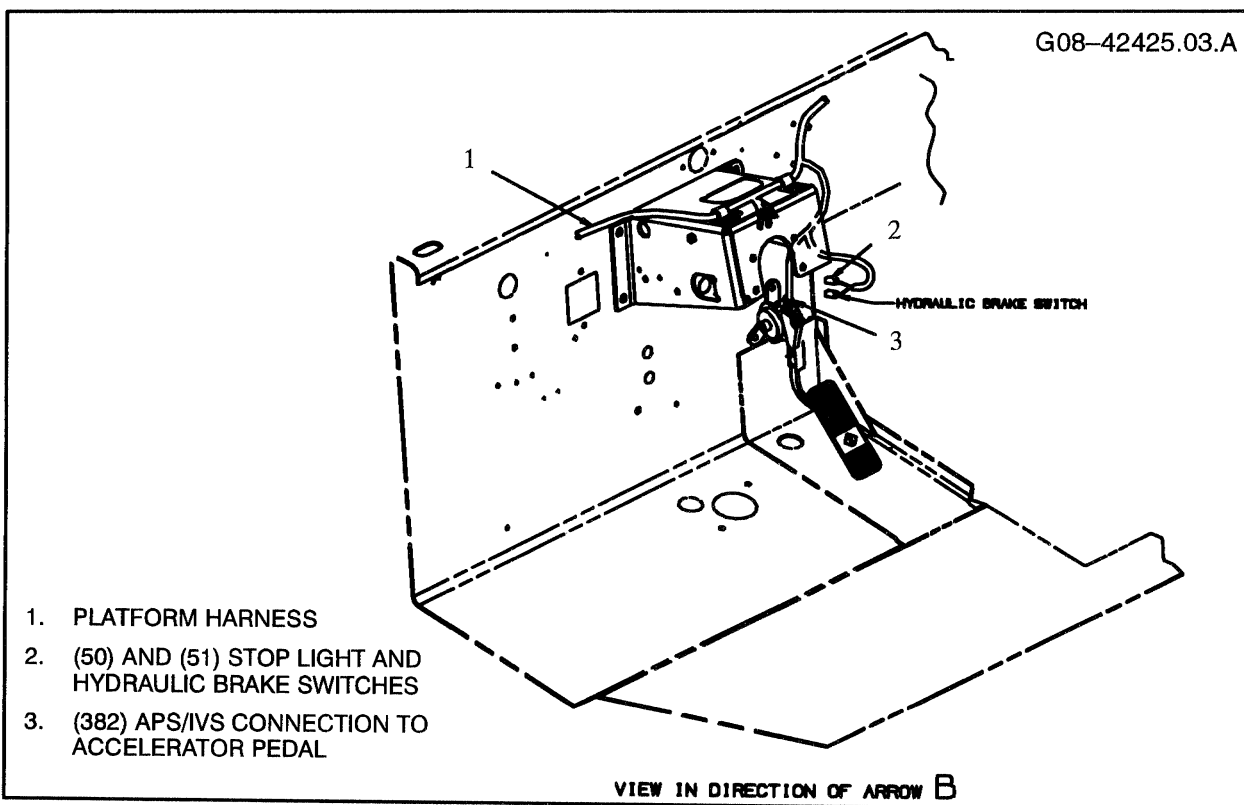


Figure 7.39 – Accelerator Pedal/Stop Light Switches

VEHICLE AND COMPONENT ILLUSTRATIONS

PARK BRAKE SWITCH INSTALLATION & ADJUSTMENT

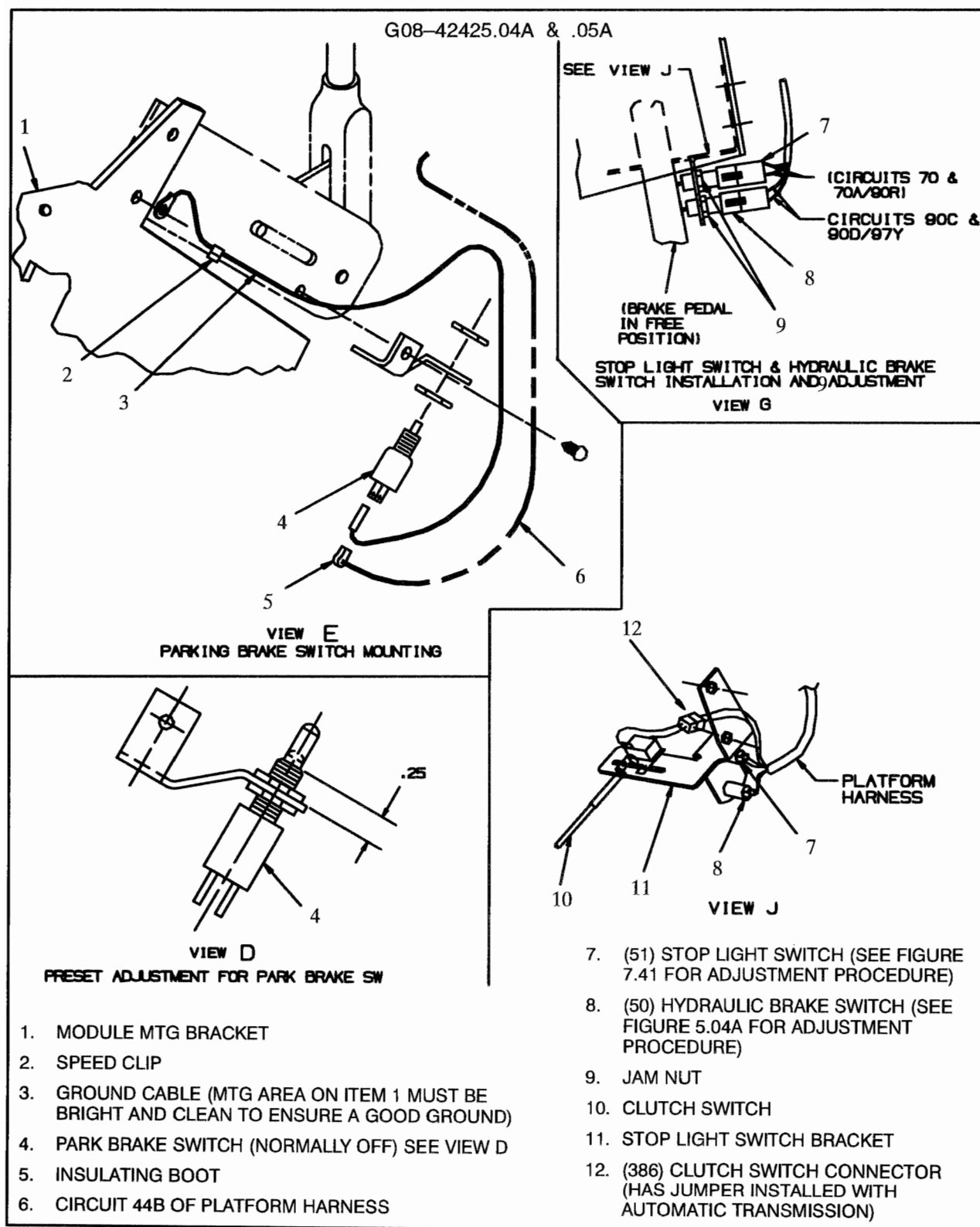


Figure 7.40 – Park Brake Switch Installation & Adjustment

PLATFORM HARNESS WIRING – FUSE PANEL/BRAKE SWITCH INSTALLATION & ADJUSTMENT

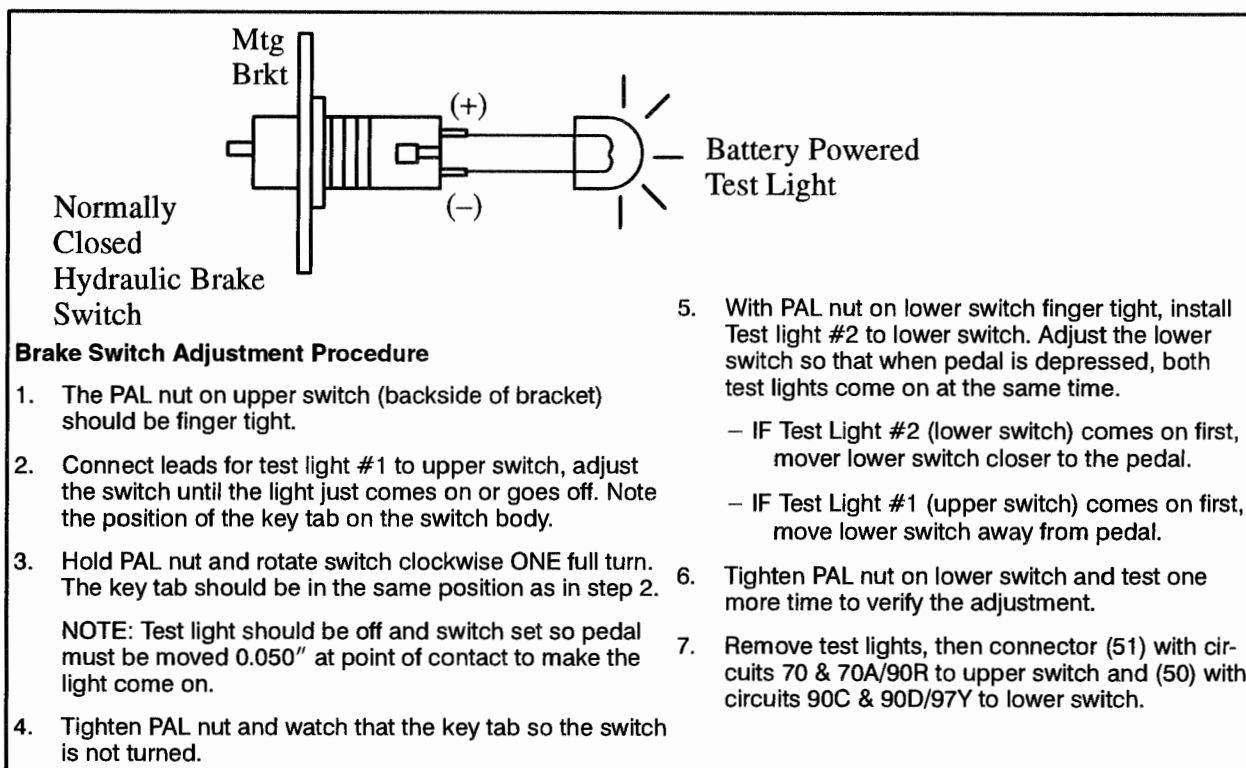


Figure 7.41 – Brake Switch Installation & Adjustment

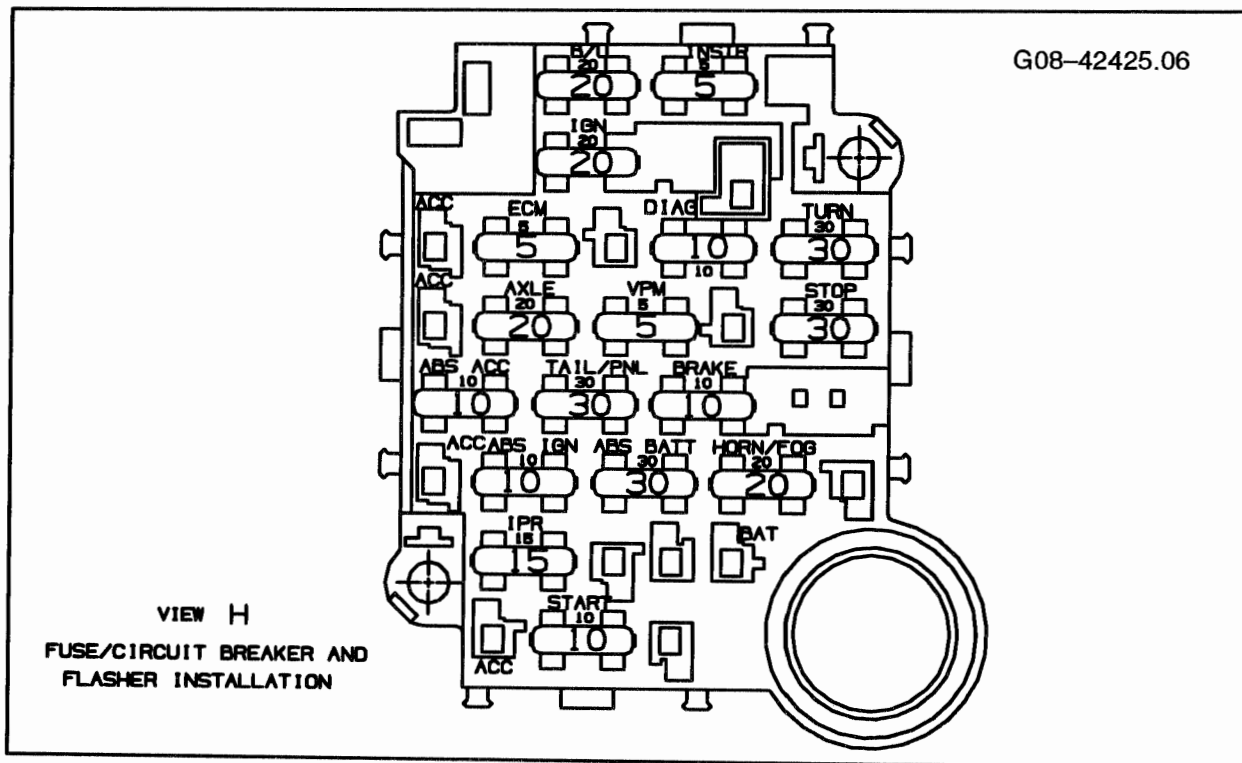


Figure 7.42 – Fuse Panel

VEHICLE AND COMPONENT ILLUSTRATIONS

PLATFORM HARNESS – CRUISE CONTROL WIRING

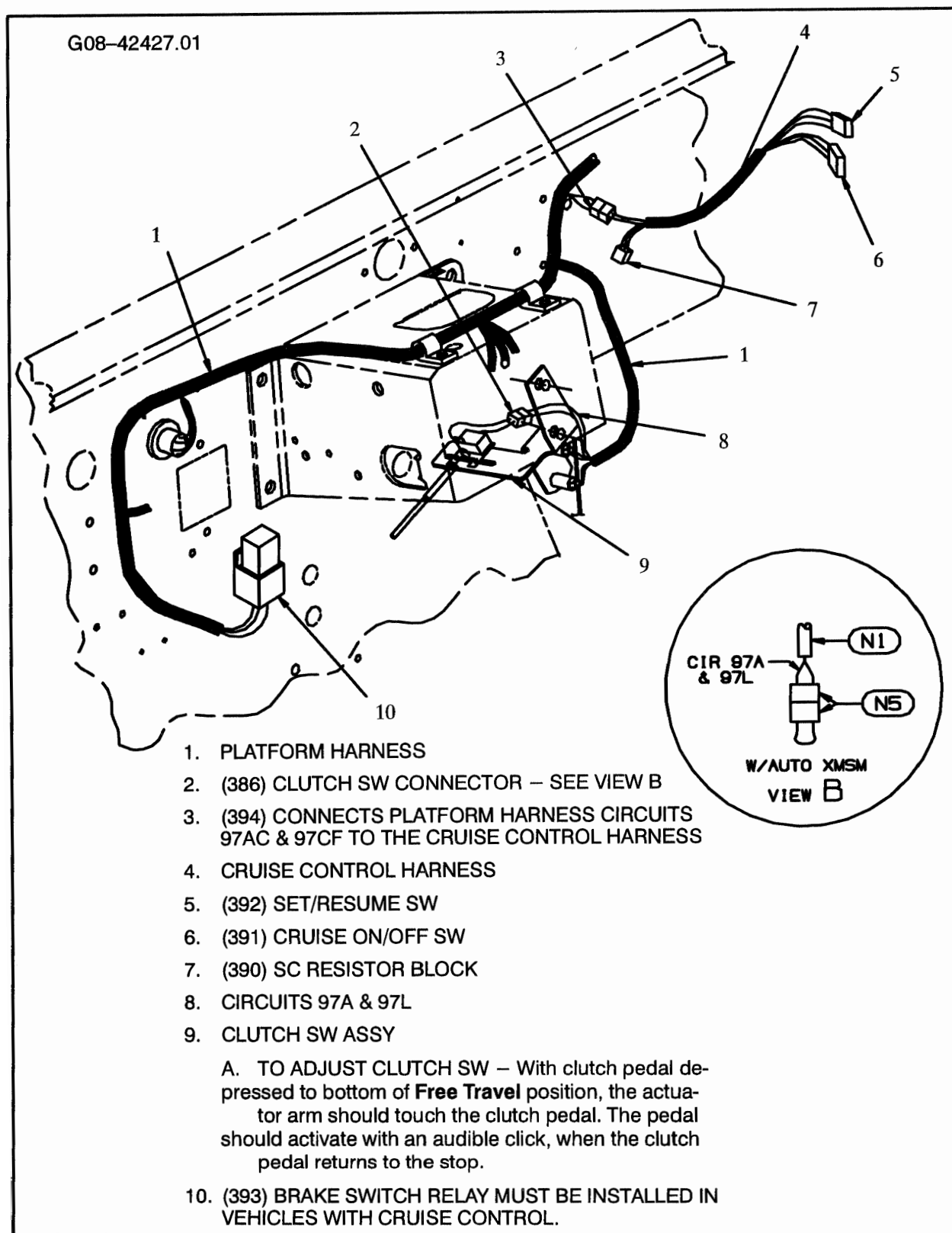


Figure 7.43 – Cruise Control Wiring

DASH HARNESS WIRING – ECM/VPM/IDM Module With 1652SC

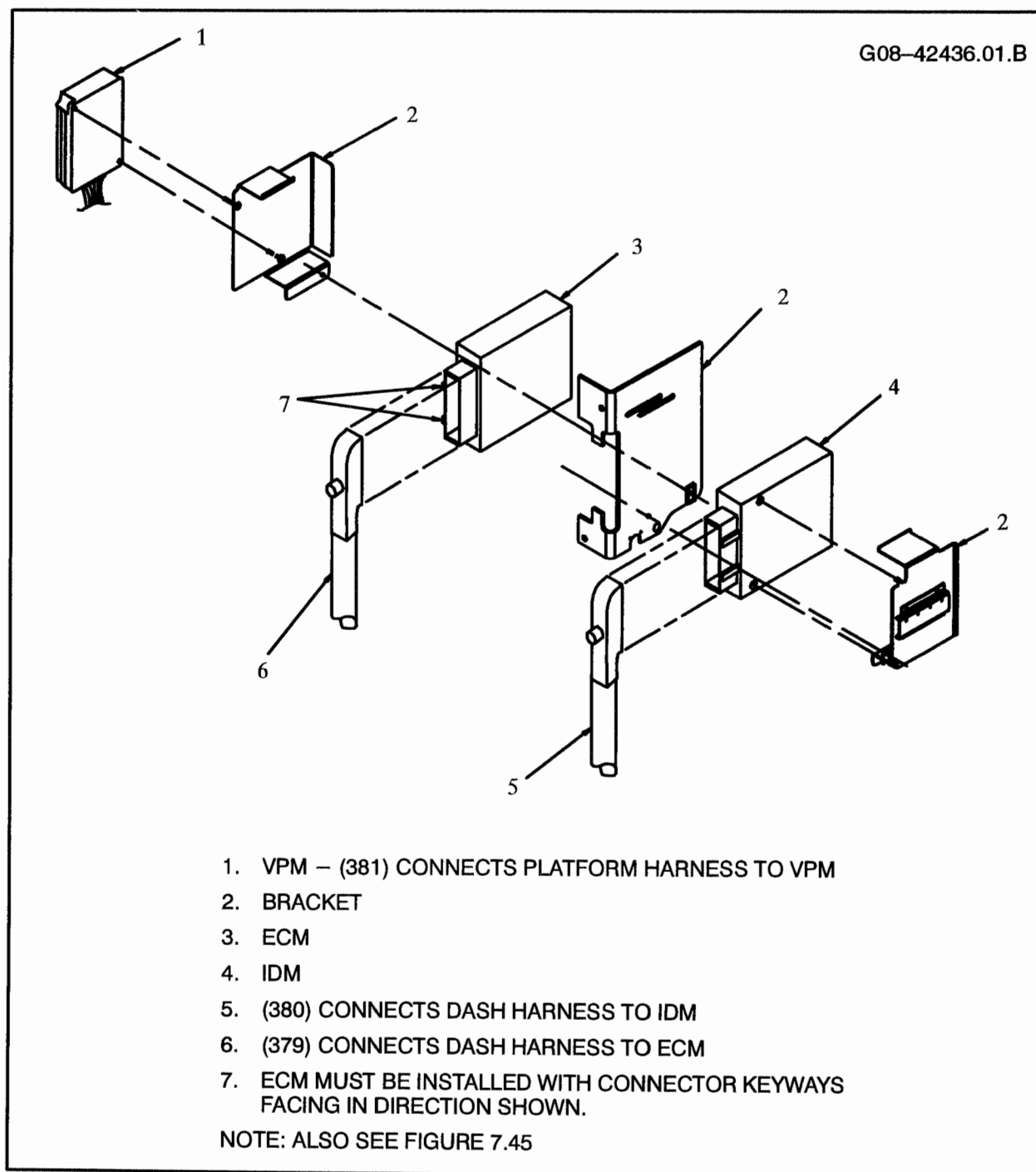


Figure 7.44 – ECM/VPM/IDM Module With 1652SC

DASH HARNESS WIRING – VPM/ECM/IDM MODULE INSTALLATION WITH 1652SC

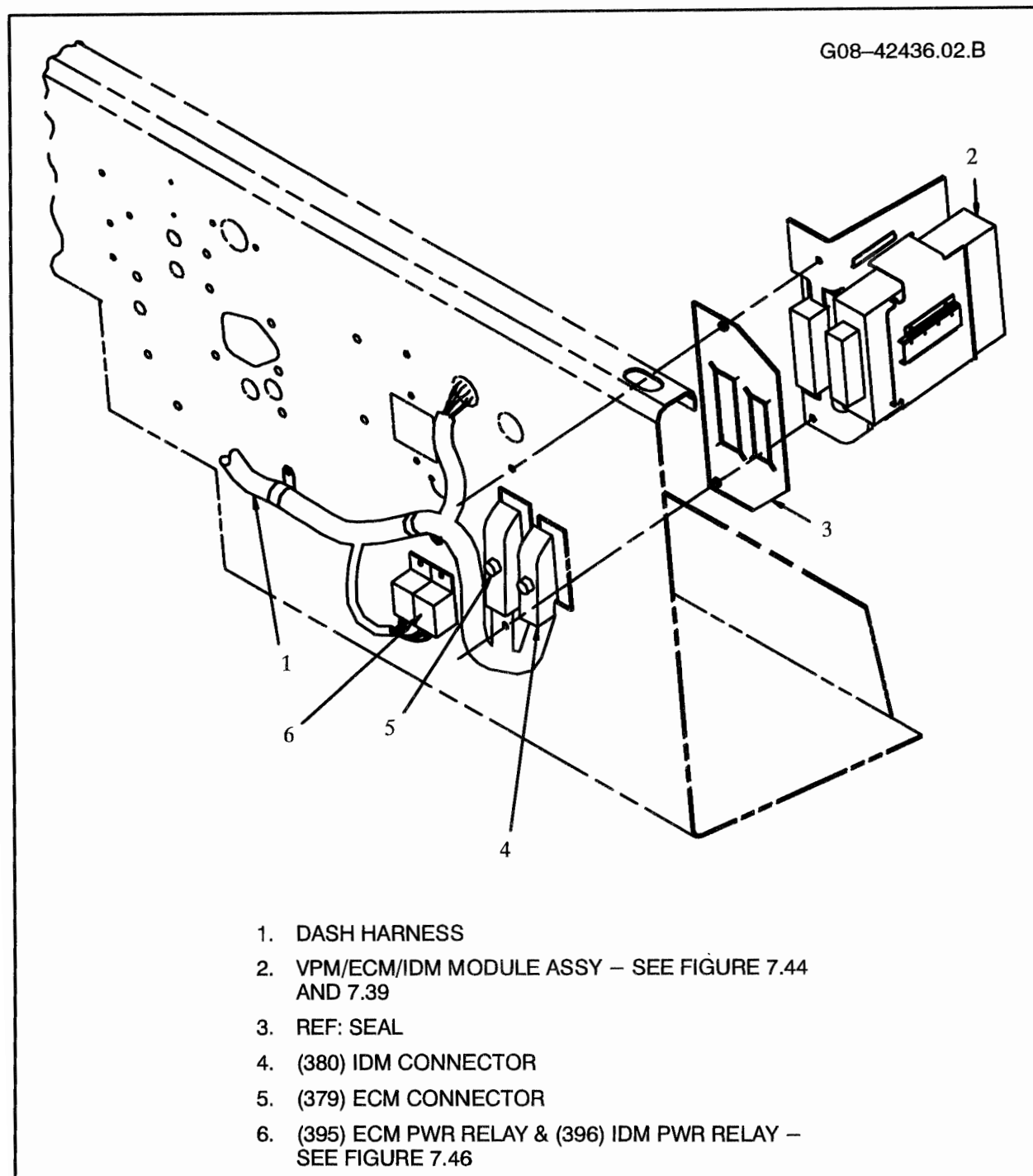


Figure 7.45 – VPM/ECM/IDM Module Installation With 1652SC

DASH HARNESS WIRING – LEFT SIDE WITH 1652SC PLATFORM

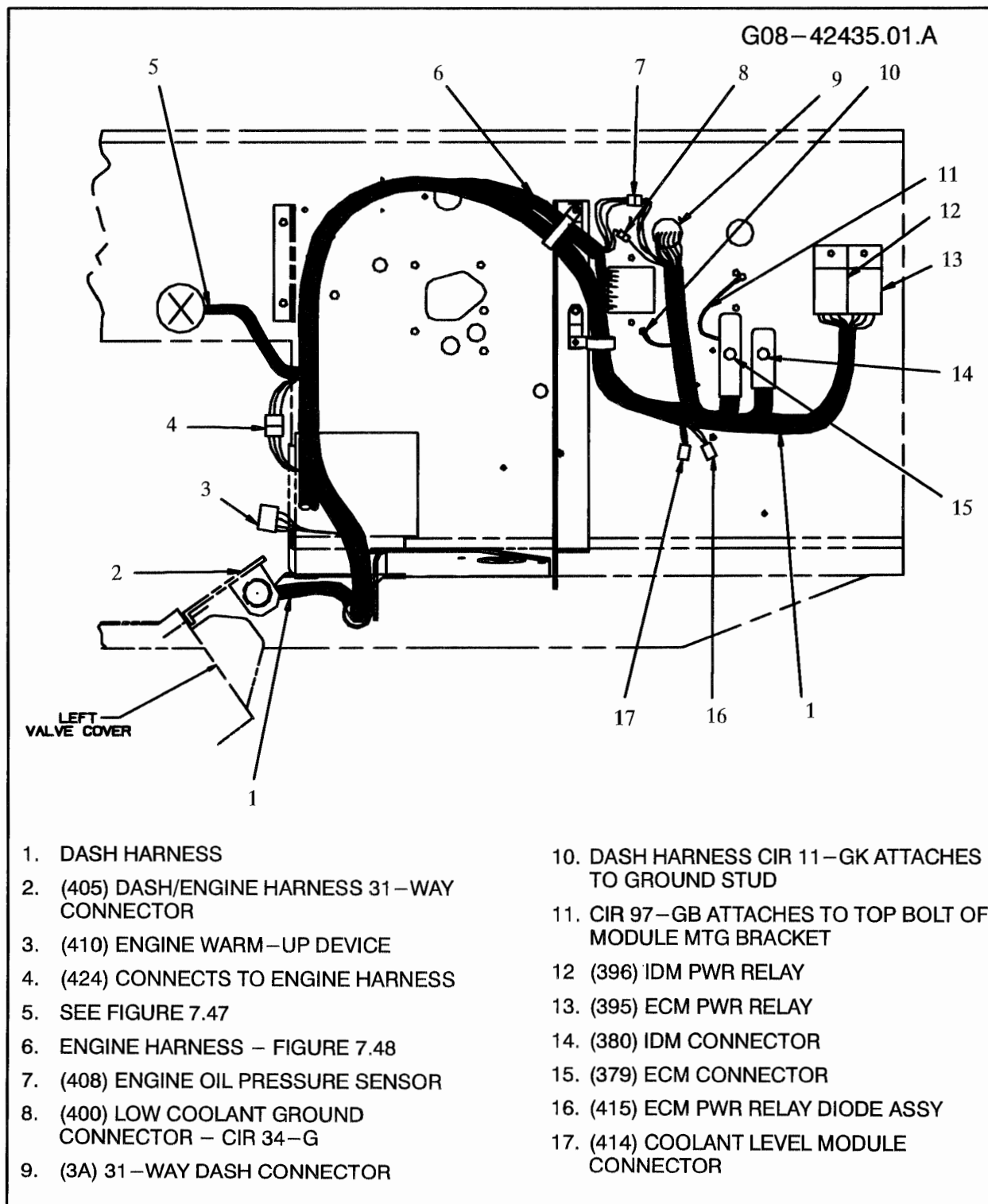


Figure 7.46 – Dash Harness Wiring – Left Side With 1652SC Platform

VEHICLE AND COMPONENT ILLUSTRATIONS

DASH HARNESS WIRING – RIGHT SIDE WITH 1652SC

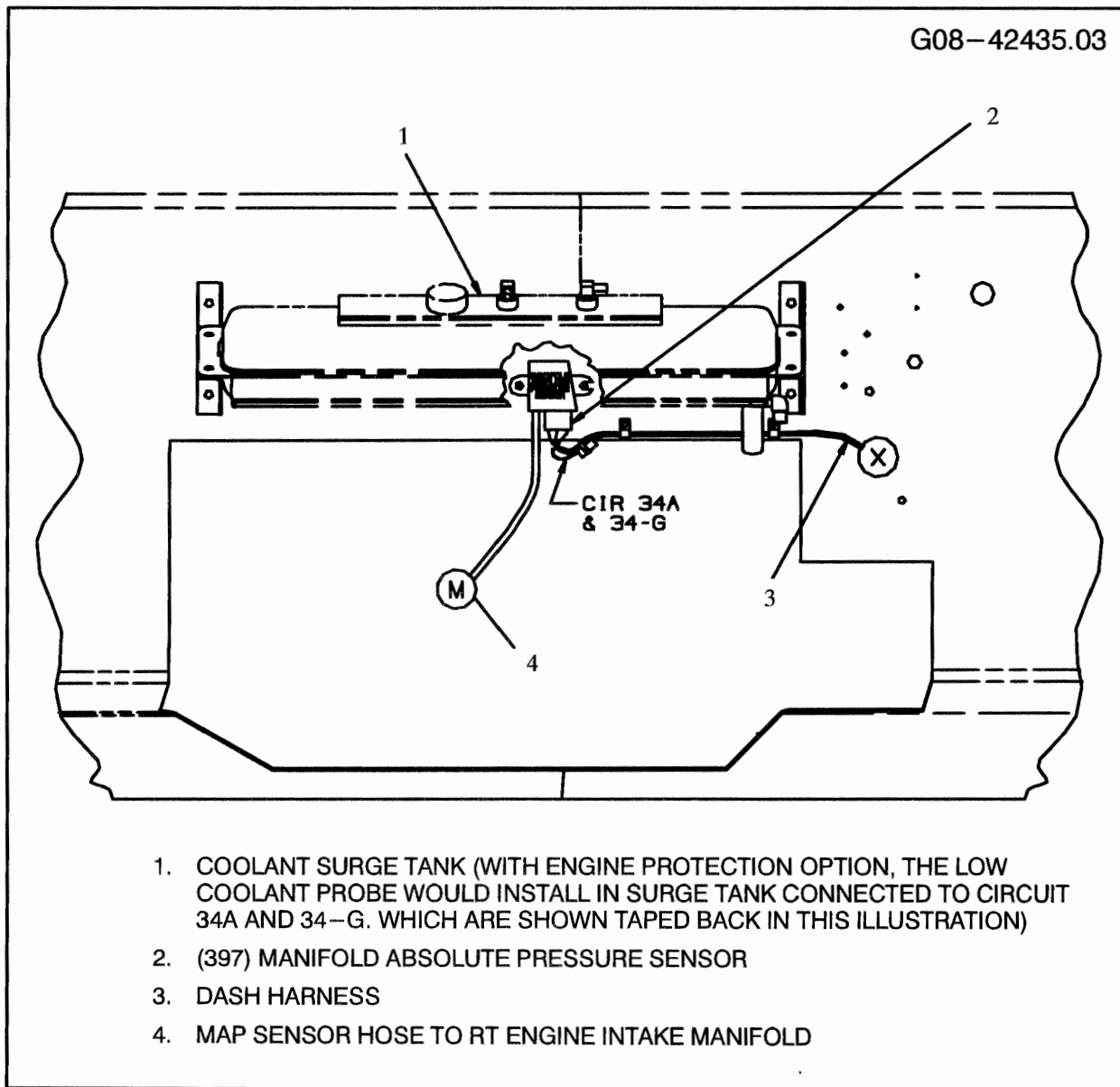


Figure 7.47 – Dash Harness Wiring – Right Side With 1652SC

ENGINE HARNESS WIRING AT DASH PANEL WITH 1652SC

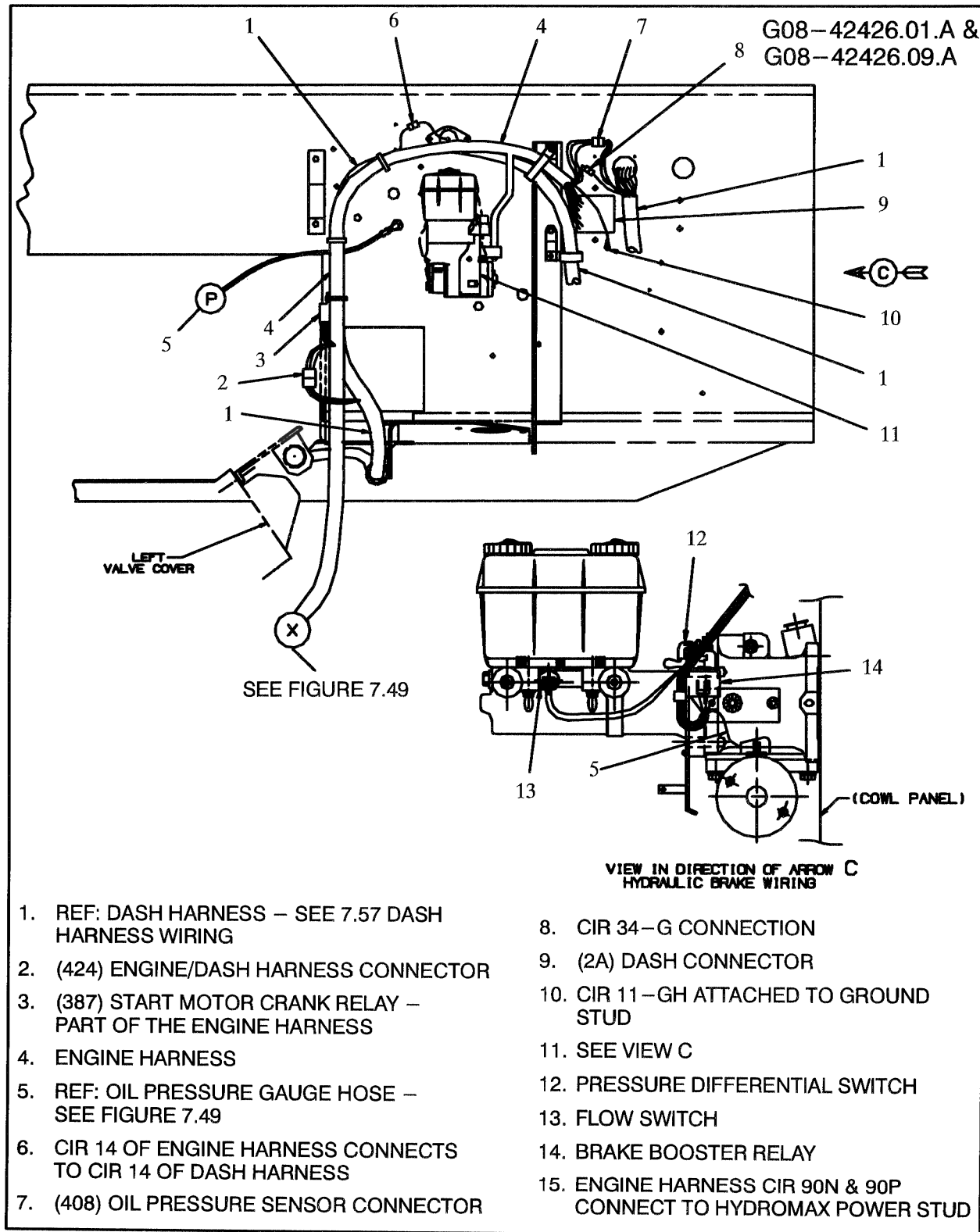
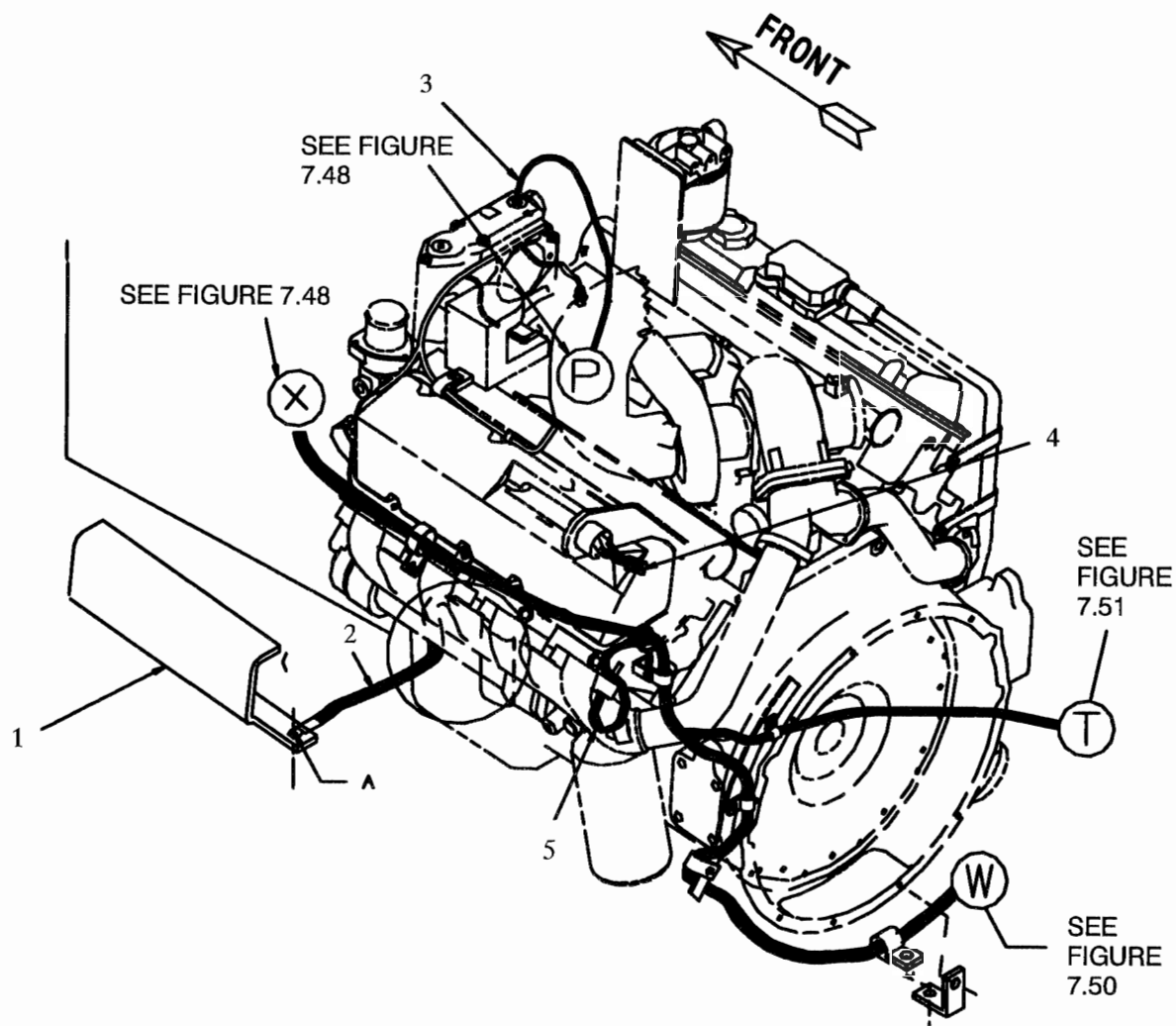


Figure 7.48 – Engine Harness Wiring At Dash Panel With 1652SC

VEHICLE AND COMPONENT ILLUSTRATIONS

LEFT SIDE ENGINE WIRE HARNESS

G08-42426.02.A



1. LEFT FRAME RAIL
2. GROUND CABLE
3. OIL PRESSURE GAUGE HOSE
4. (405) DASH/ENGINE HARNESS CONNECTOR
5. CIR 29 & 29-G TO ENGINE TEMP GAUGE SENDER

Figure 7.49 – Left Side Engine Wire Harness

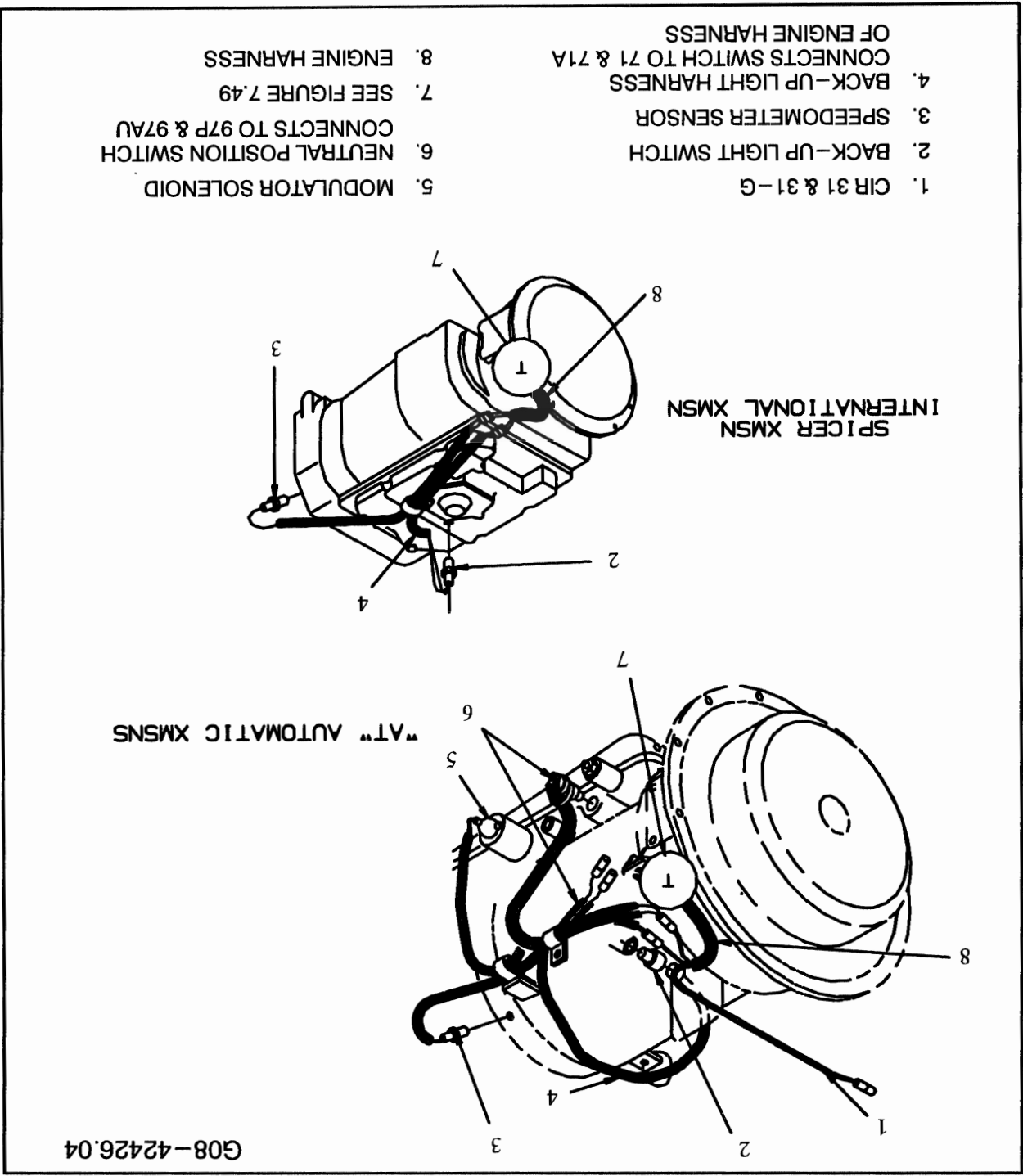


Figure 7.51 - Engine Harness Wiring At Transmission

VEHICLE AND COMPONENT ILLUSTRATIONS

RIGHT SIDE ENGINE WIRING WITH 1652SC

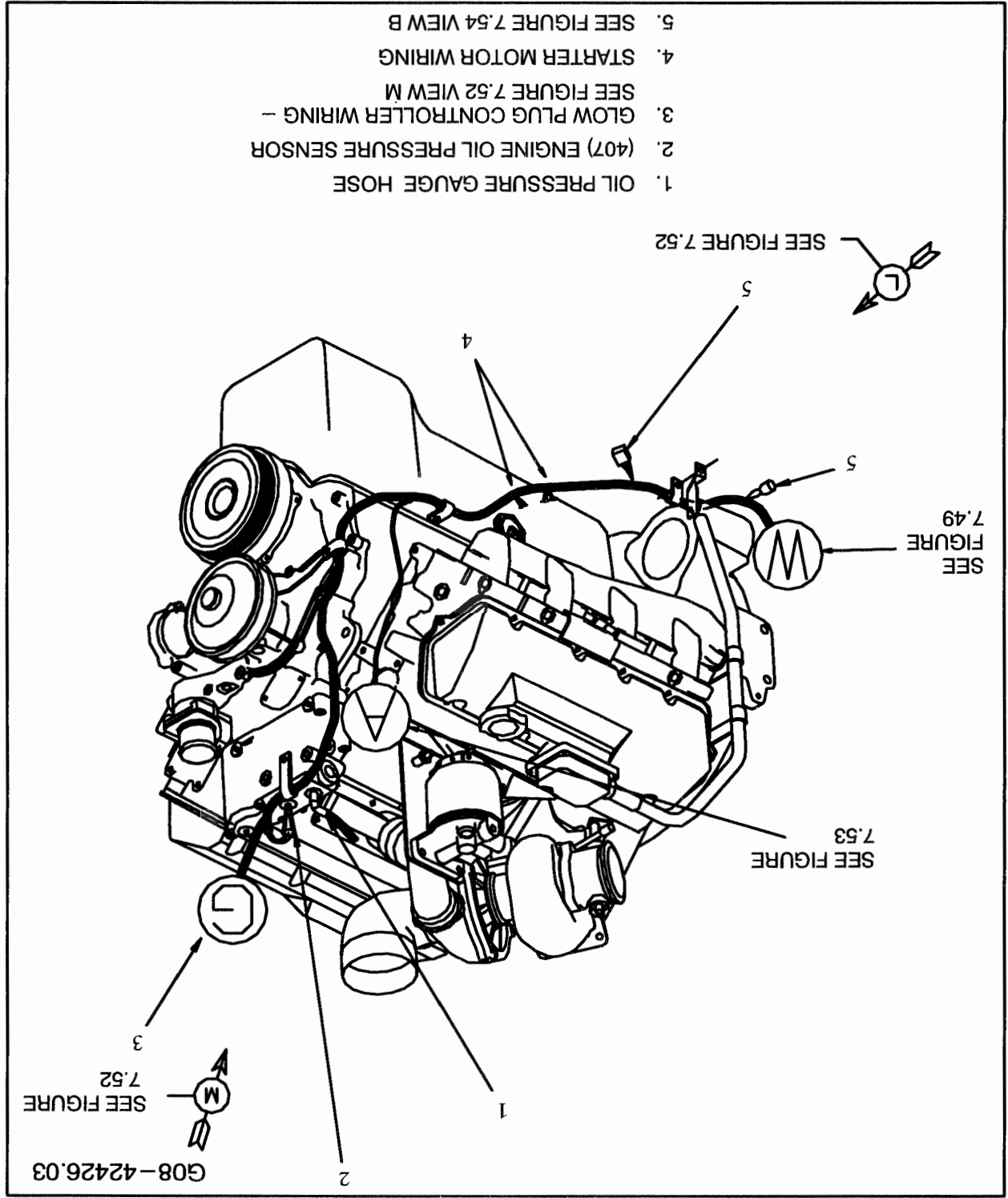


Figure 7.50 - Right Side Engine Wiring With 1652SC

EGES-125-1

Printed in the United States of America

ENGINE HARNESS WIRING

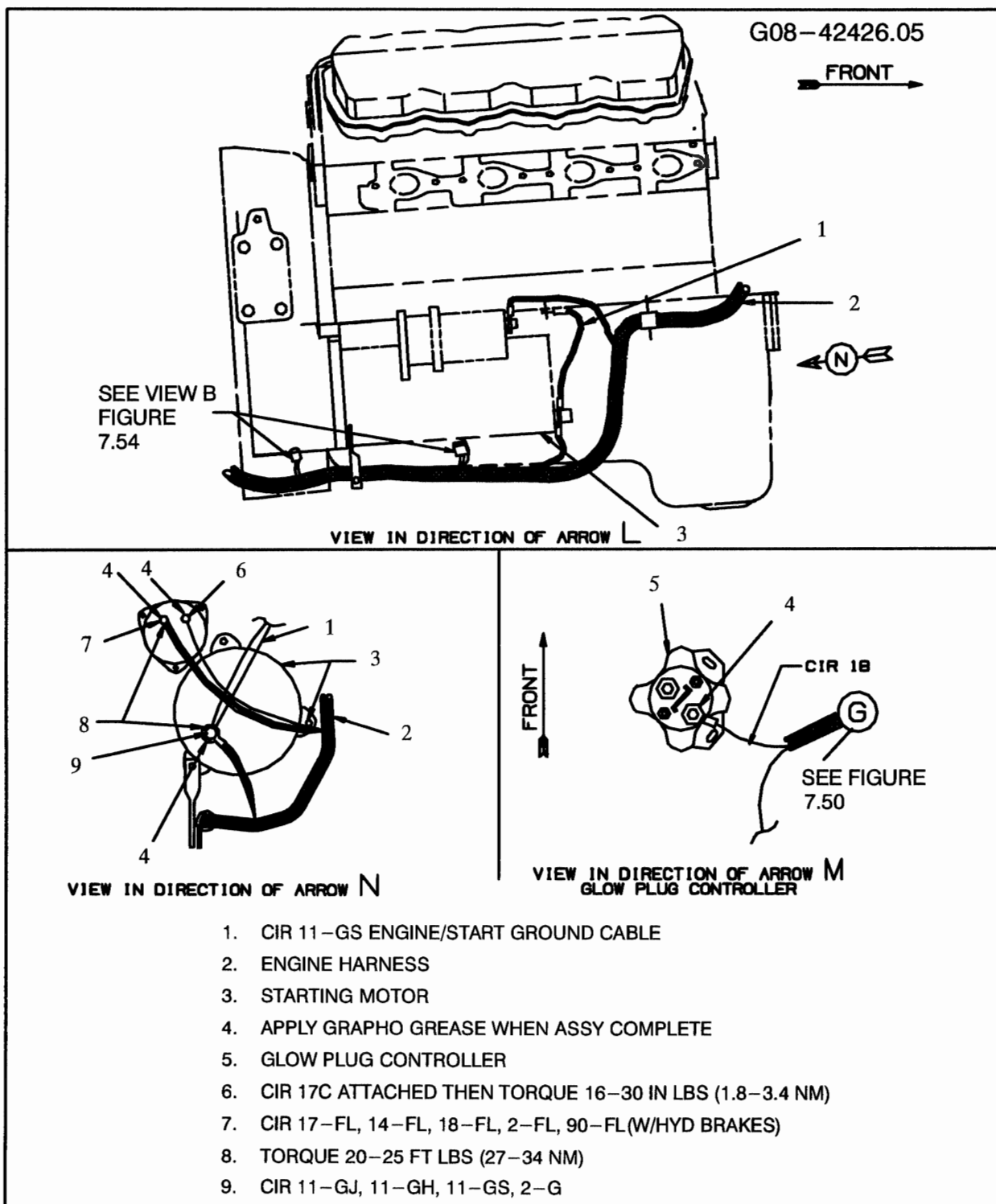


Figure 7.52 – Engine Harness Wiring

ENGINE WIRING AT ALTERNATOR

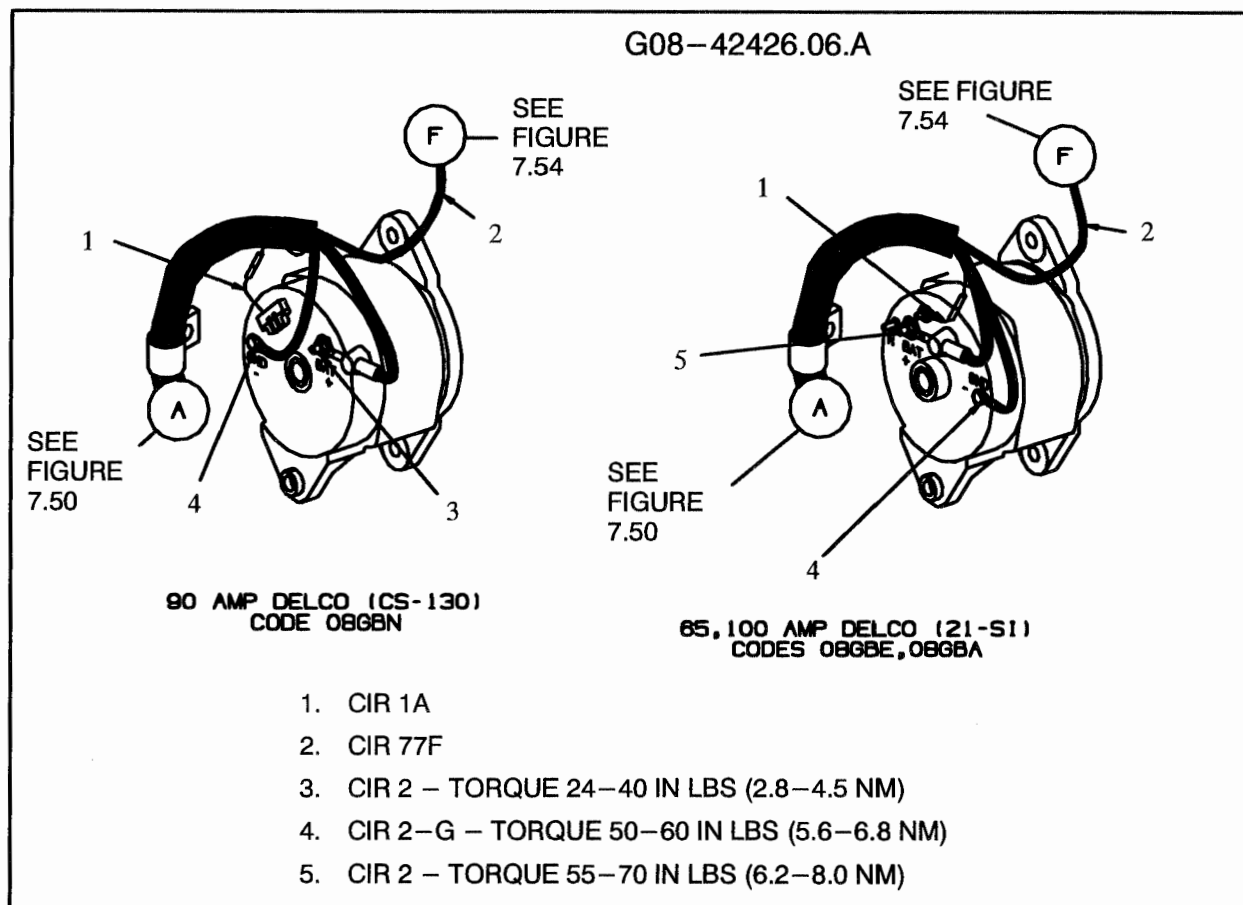


Figure 7.53 – Engine Wiring at Alternator

BATTERY CONNECTOR (426) AND TOP VIEW OF AC COMPRESSOR

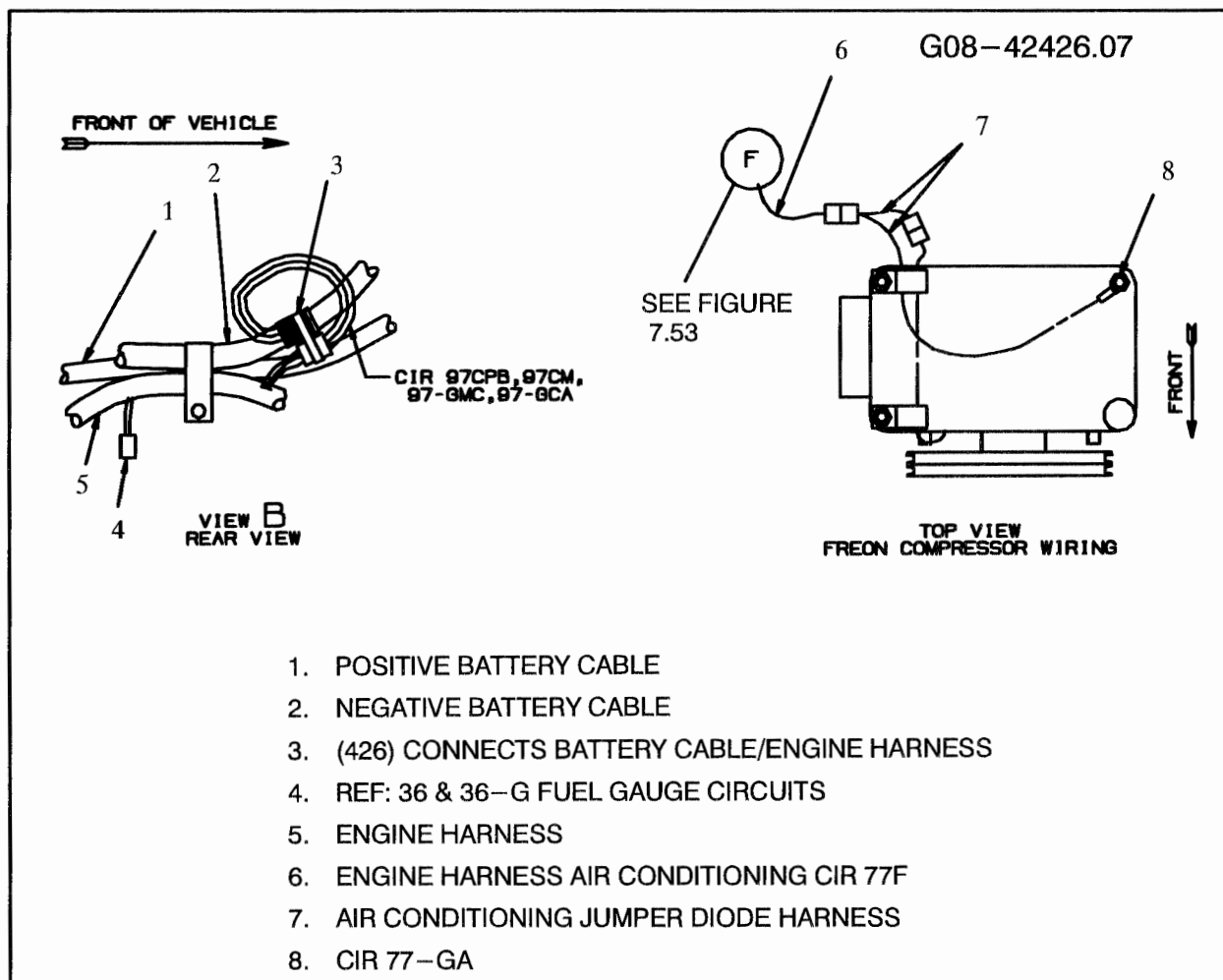


Figure 7.54 – Battery Connector (426) and Top View of AC Compressor

VEHICLE AND COMPONENT ILLUSTRATIONS

ALLISON "AT" TRANSMISSION WIRING

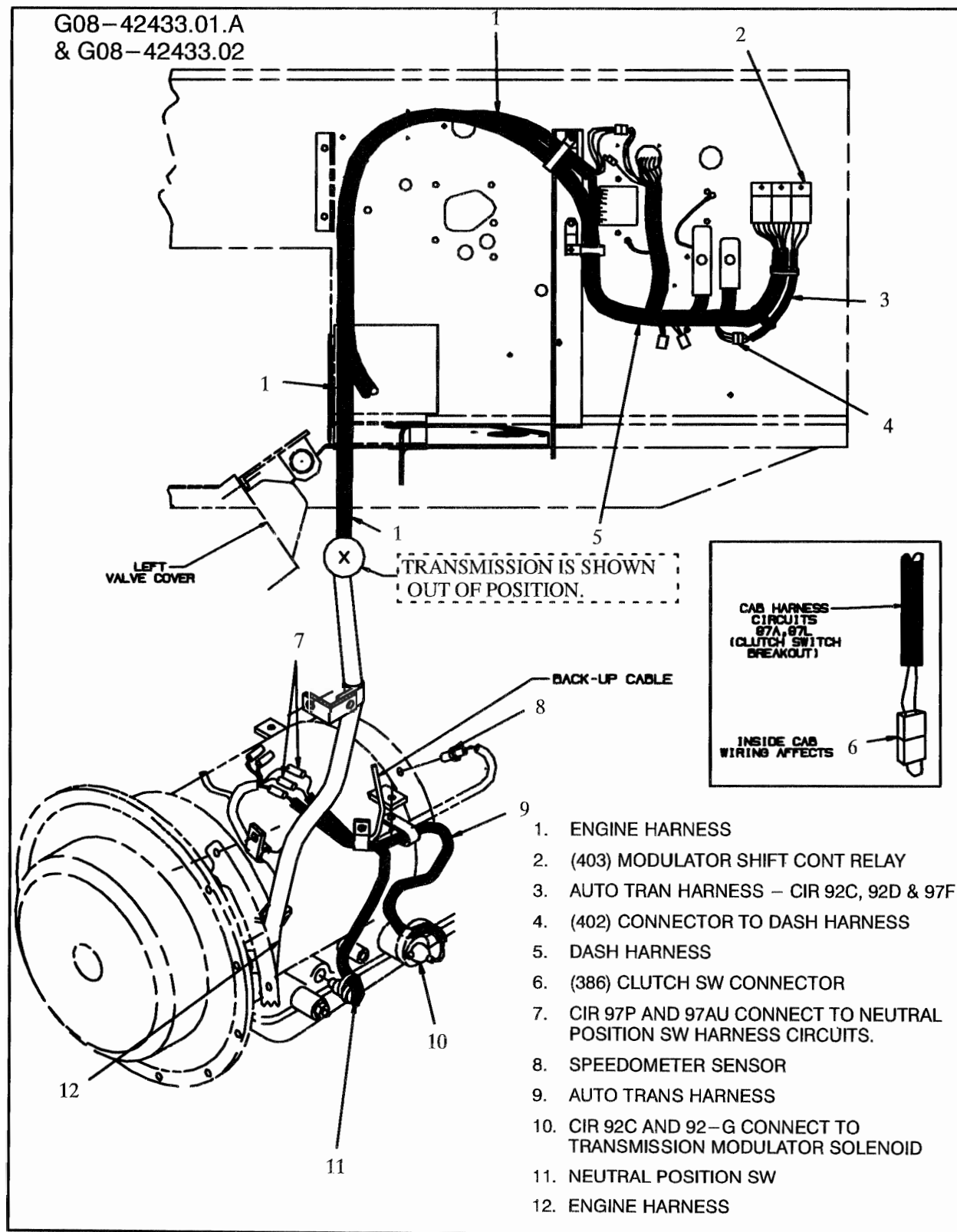


Figure 7.55 – Allison "AT" Transmission Wiring

ENGINE WARM-UP DEVICE

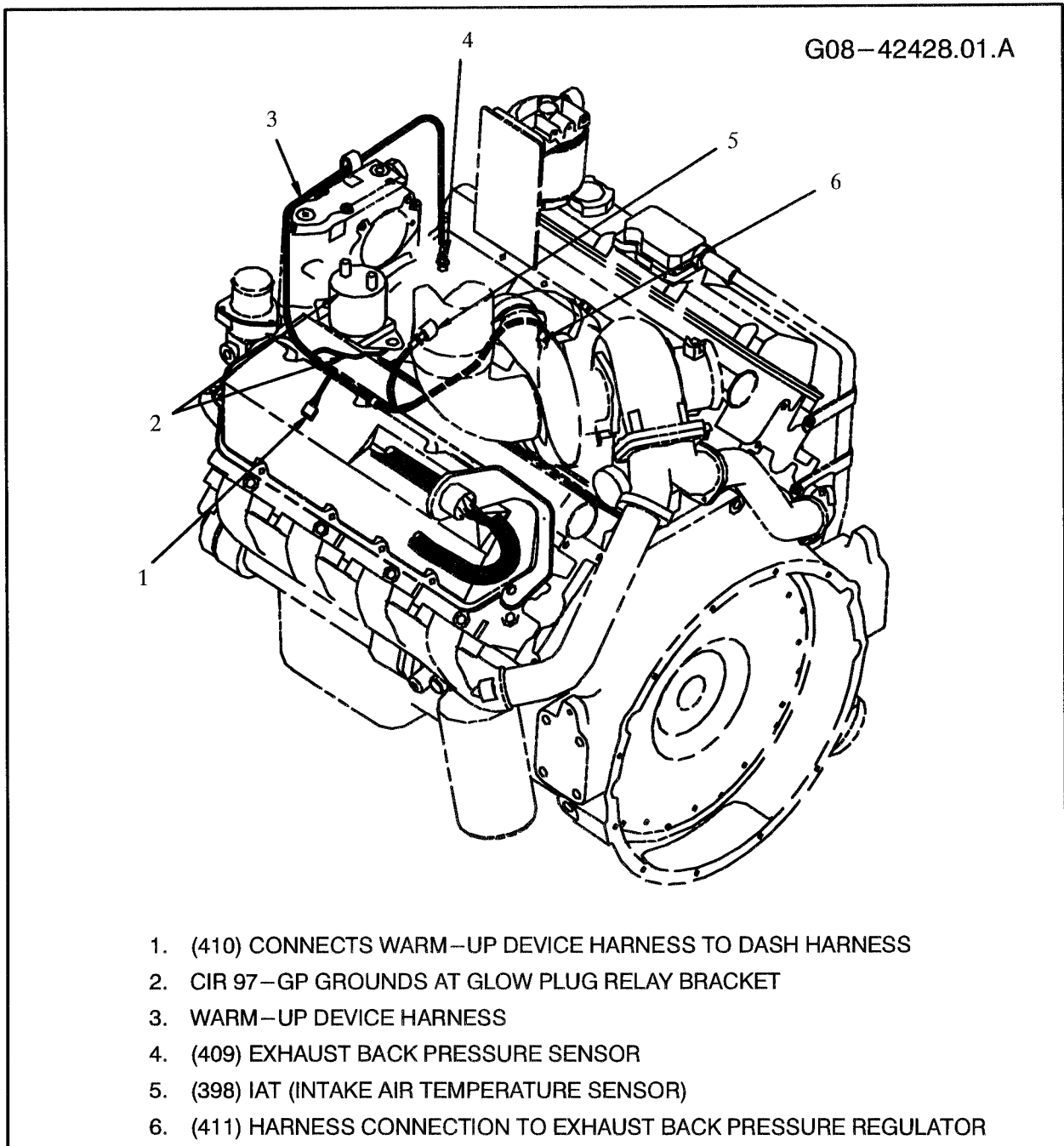


Figure 7.56 – Engine Warm-Up Device

VEHICLE AND COMPONENT ILLUSTRATIONS

ENGINE SHUTDOWN WIRING AT DASH PANEL

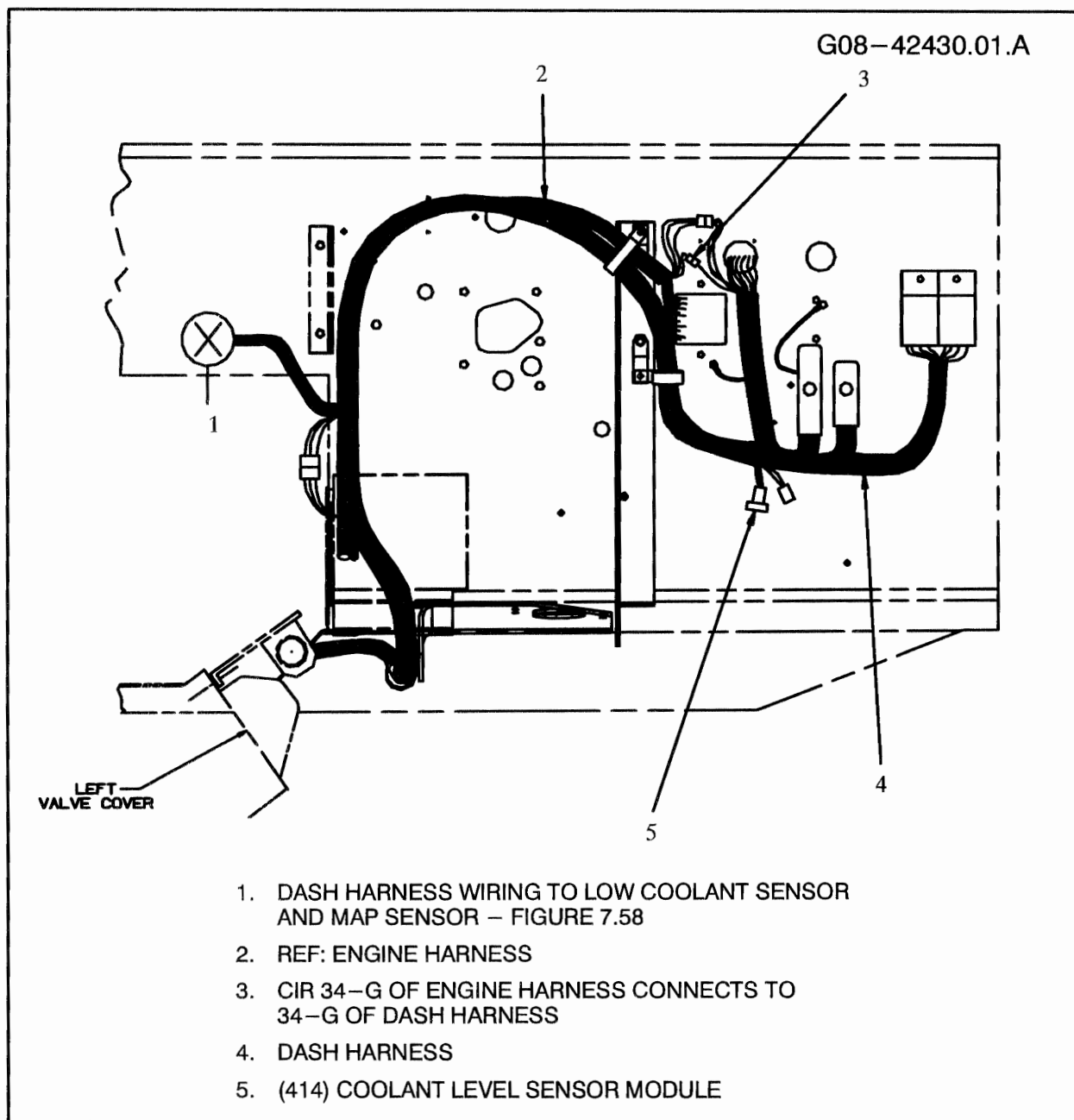


Figure 7.57 – Engine Shutdown Wiring At Dash Panel

ENGINE SHUTDOWN WIRING AT DASH PANEL (Continued)

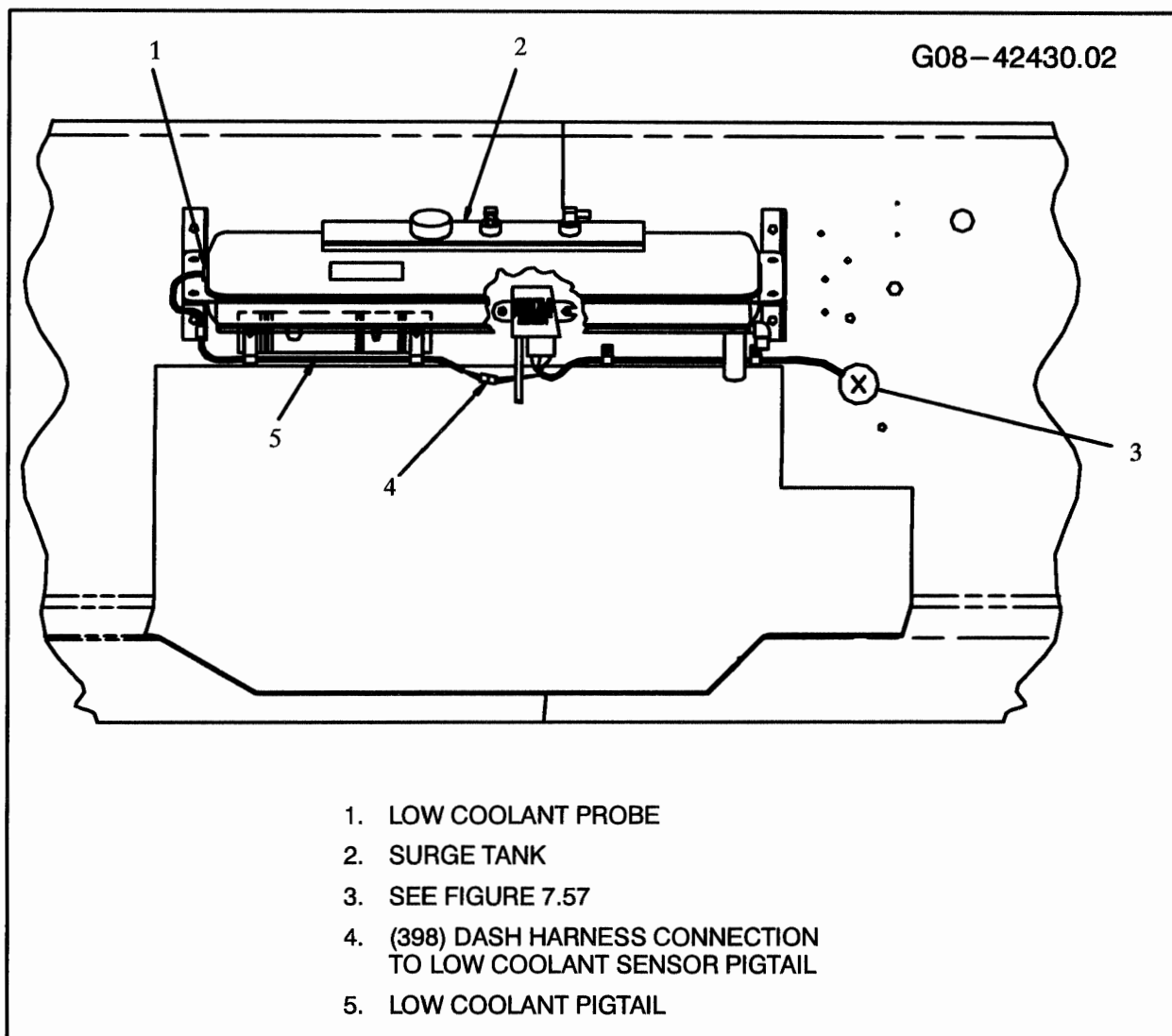


Figure 7.58 – Engine Shutdown Wiring At Dash Panel