

NOTE

It is the responsibility of the installer to ensure that the harnesses are protected from all sharp edges and sharp bends.

Kit Contents

- 1 - installation sheet
- 1- Truck PC
- 1- Hydra Cable DTY20686
- 1- Device Cable DTY 20680 Rev 6 or DTY 20681 Rev 4,5
- 1- Display and display cable

Tools Required

- 1- roll electrical tape
- 1- wire cutter/stripper
- 1- Crimpers
- 1- #2 Phillips head
- 1-# 12 Torx bit driver

Volvo Truck PC “Hydra Cable” Installation Instructions

1. Install Truck PC in desired location; NOTE, a suggested location is behind drivers or passenger seat due to J1939 wire length restrictions. If installing a Rev 6 unit, inside the dash would be a suggested location.
2. Inside the fuse relay panel all of the connection points needed will be at hand.
3. To install the “DTY20686” spider cable: In the fuse relay panel upper right corner (nearest windshield) there is a connector block that includes power, ground and ignition. As seen in following page illustrations. Plug spider cable connectors into vehicle respective locations. Cable “DTY20667” is an adapter cable. Adapting Rev 6 cable connector to Rev 5 cable connector, if needed.
4. J1939 connection is shown with terminating resistor. Remove resistor and connect to “Y” cable mating connector, connect second “Y” cable connector where resistor was removed. J1939 connection complete.
5. Connect J1708/J1587 connector to vehicle wiring.
6. Insert power, ground and ignition connector in connector block.
7. Connect DTY20686 Hydra cable to DTY20680 or 20681 Device cable route to device.
8. Refer to Figure 5 locate correct fuse locations. Insert correct fuses 10 amp power, 2 amp ignition.
9. After all connections have been completed, turn ignition to “on position” insure Truck PC powers-up, then insure J1939 JBus and J1708 are active.
10. Start truck, do a complete functionality test of Truck PC. Replace fuse relay cover.

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Volvo Truck PC “Hydra Cable” Installation Instructions

Fuse panels for 12V power

J1708 Connector

J1939 Connector

Power, Ignition and Ground Connections

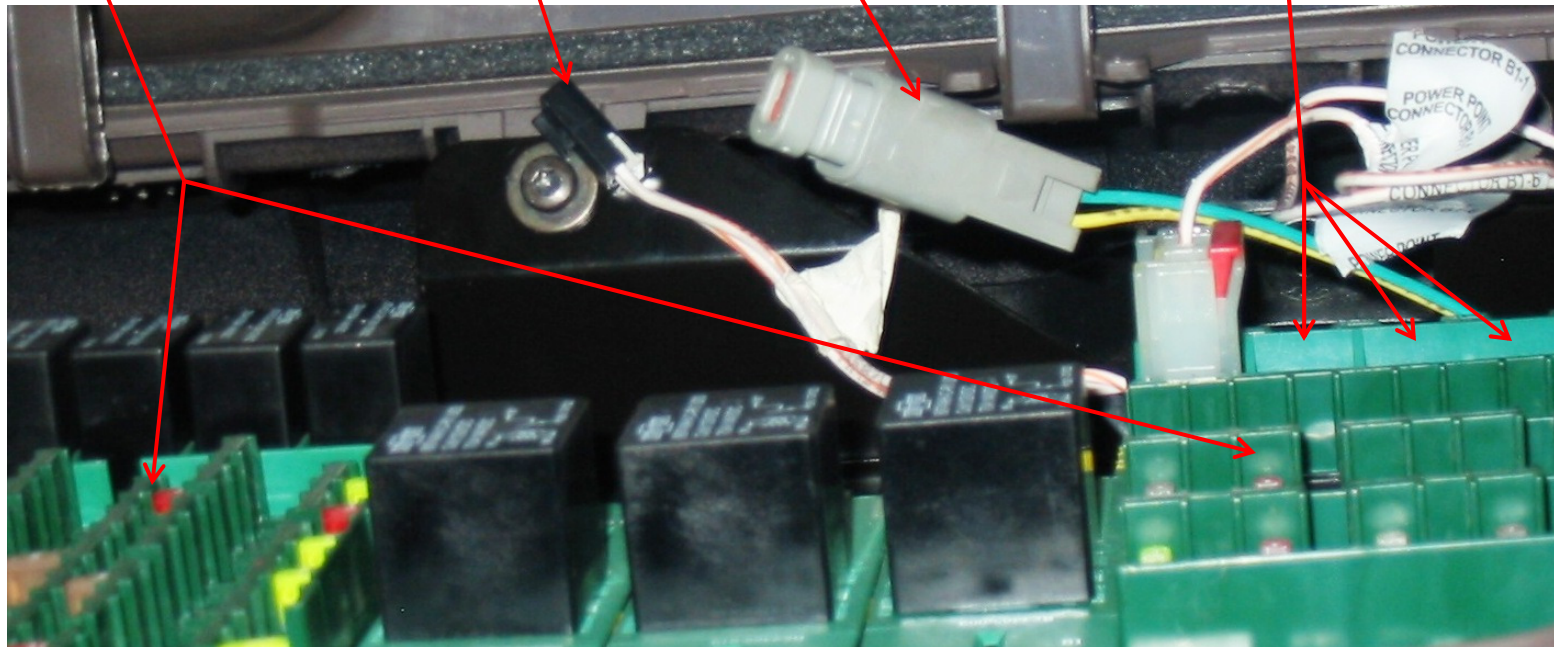


Figure 1

Within the Volvo fuse relay panel shown in Figure 1, J1939, J1708, power, ground and ignition connections are accessible. Vehicles being installed for the first time the J1939 and J1708 are bundled together with zip ties. Remove the ties to access the J1939 wiring and terminating resistor, along with J1708 connectors, shown in (Figure 2).

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J1939 Terminating Resistor

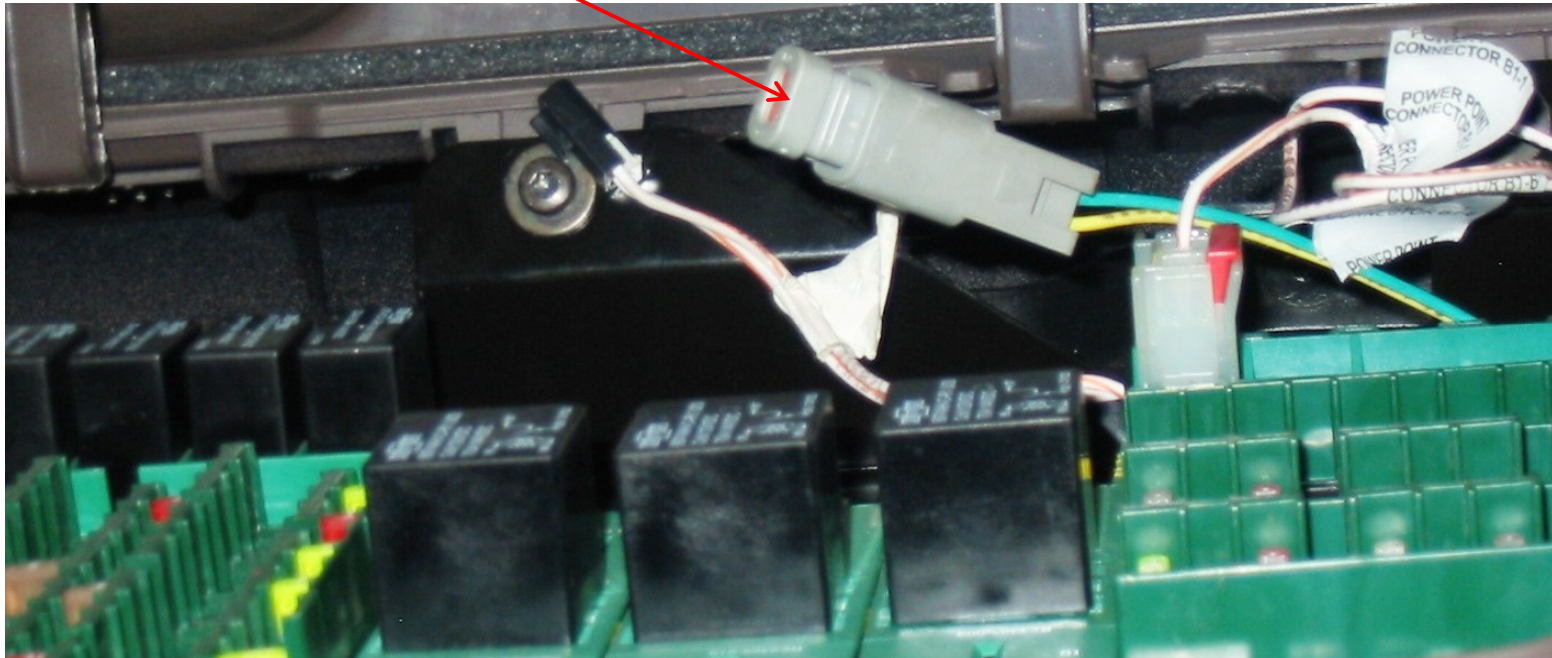


Figure 2

The J1939 connector is equipped with the Terminating Resistor. **To install cable DTU 20600 the resistor must be removed and re-installed in the female “Y” connector of DTY 20600.** The male end of the “Y” connector will reconnect into the connector from where the terminating resistor was removed. This completes the J1939 data link connection. J1708 will also plug directly into the vehicle connectors.

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Fuse Panels

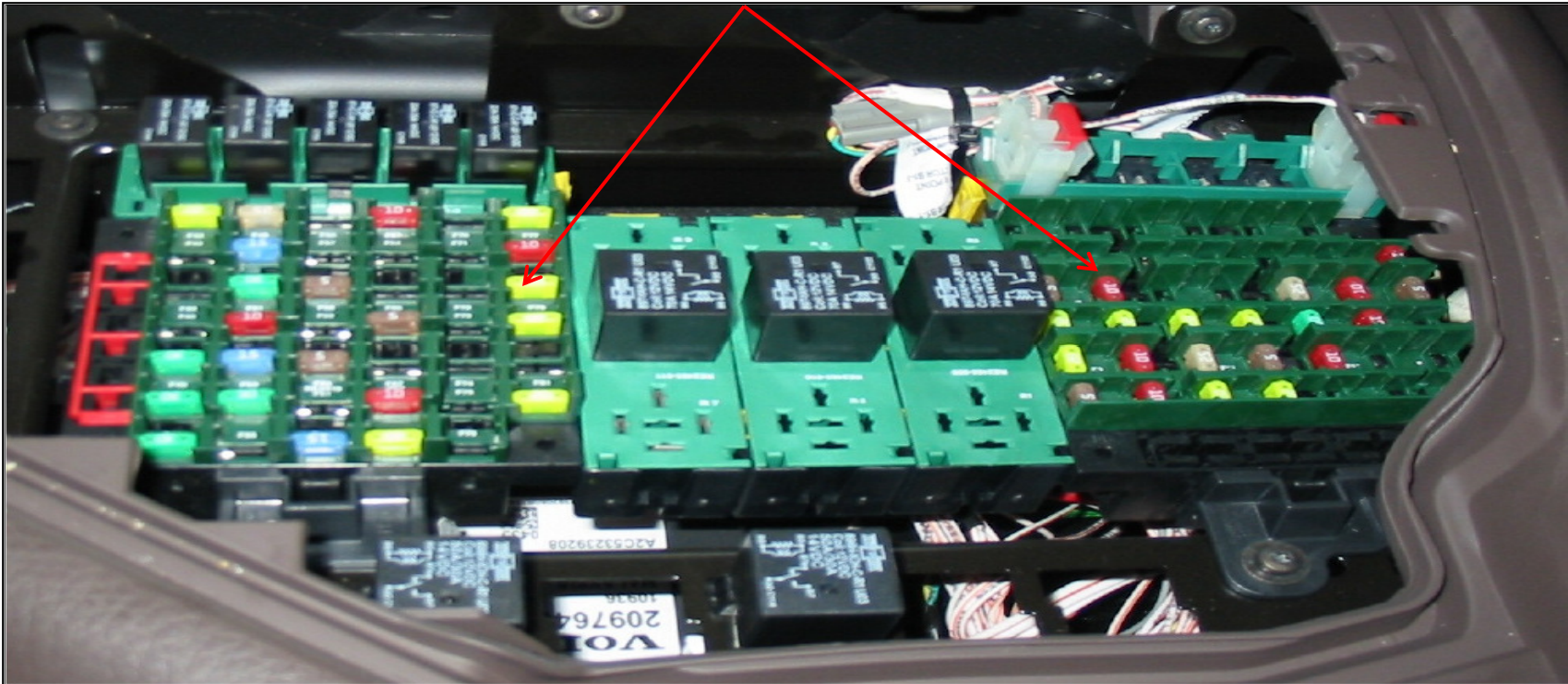


Figure 3

To select the correct fuse locations refer to (Figure 4).
The auxiliary connection ports are un-fused.

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Volvo Truck PC “Hydra Cable” Installation Guide

| FUSES | | FUSE AND RELAY CENTER | |
|-------|----------|-----------------------|----------|
| F1 | 5 | F45 | 15 |
| F2 | 10 | F46 | 30 |
| F3 | 20 | F47 | 30 |
| F4 | 20 | F48 | 30 |
| F5 | NOT USED | F49 | 25 |
| F6 | NOT USED | F50 | 15 |
| F7 | NOT USED | F51 | 30 |
| F8 | 20 | F52 | 10 |
| F9 | 10 | F53 | 15 |
| F10 | 25 | F54 | 30 |
| F11 | 15 | F55 | NOT USED |
| F12 | 5 | F56 | NOT USED |
| F13 | 10 | F57 | NOT USED |
| F14 | 10 | F58 | 5 |
| F15 | 15 | F59 | 5 |
| F16 | 20 | F60 | 5 |
| F17 | 20 | F61 | 5 |
| F18 | 20 | F62 | 15 |
| F19 | 30 | F63 | 10 |
| F20 | 10 | F64 | 15 |
| F21 | 5 | F65 | 15 |
| F22 | 5 | F66 | 5 |
| F23 | 10 | F67 | 15 |
| F24 | NOT USED | F68 | 10 |
| F25 | 20 | F69 | 20 |
| F26 | 25 | F70 | NOT USED |
| F27 | 10 | F71 | NOT USED |
| F28 | 5 | F72 | NOT USED |
| F29 | 15 | F73 | NOT USED |
| F30 | 15 | F74 | NOT USED |
| F31 | 10 | F75 | NOT USED |
| F32 | 15 | F76 | NOT USED |
| F33 | NOT USED | F77 | 20 |
| F34 | 5 | F78 | 10 |
| F35 | 10 | F79 | 20 |
| F36 | NOT USED | F80 | 20 |
| F37 | NOT USED | F81 | 15 |
| F38 | NOT USED | F82 | 20 |
| F39 | NOT USED | F83 | NOT USED |
| F40 | NOT USED | F84 | NOT USED |
| F41 | NOT USED | F85 | NOT USED |
| F42 | 20 | | |
| F43 | 10 | | |
| F44 | 30 | | |

| RELAYS | | EXTERNAL RELAYS | |
|--------|---------------------------|-----------------|---------------------------------------|
| R1 | NOT USED | ER1 | ROOF SIGN/ALLISON BODY BUILDER N145A1 |
| R2 | NOT USED | ER2 | ALLISON BODY BUILDER N130A1 |
| R3 | NOT USED | ER3 | I-SHIFT |
| R4 | NOT USED | ER4 | NOT USED |
| R5 | NOT USED | ER5 | LCM IGNITION |
| R6 | NOT USED | ER6 | PWR WINDOW DOWN |
| R7 | NOT USED | ER7 | SNOW PLOW LCM |
| R8 | NOT USED | ER8 | PWR WINDOW UP |
| R9 | NOT USED | ER9 | RH POWER MIRROR OUT/ECS PWR |
| R10 | CITY HORN | | SNOW PLOW LH LAMP |
| R11 | DOOR/DOOR LAMPS | | RH POWER MIRROR IN/ |
| R12 | INTERMITTENT WIPER | | SNOW PLOW RH LAMP |
| R13 | START ENABLE (AUTOSHIFT) | | |
| R14 | LIFT AXLE/REVERSE SIGNAL | | |
| R15 | NOT USED | | |
| R16 | REMOTE THROTTLE INCREMENT | | |
| R17 | REMOTE THROTTLE DECREMENT | | |
| R18 | NOT USED | | |
| R19 | NOT USED | | |
| R20 | NOT USED | | |
| R21 | NOT USED | | |
| R22 | NOT USED | | |

| EXPANSION | |
|-----------|---|
| B1-1 | F11 SEC INSTR CLUSTER BATT |
| B1-2 | F12 DIAG ROAD RELAY BATTERY |
| B1-3 | F43 ROOF SIGN BATTERY |
| B1-4 | F31 TOUCH LOCK IGNITION/HEATED WINDSHIELD |
| B1-5 | F61 ROAD RELAY IGNITION |
| B1-6 | F66 SEC INSTR CLUSTER IGN |

| | | | |
|-----|---------|---------------------|-----------|
| ER9 | R10-R14 | R15-R19/ R20-R22 | B1-1-B1-6 |
| ER8 | F42-F62 | R9 R8 R3 | F1-F41 |
| ER7 | | R6 R5 R2 | |
| ER6 | | R7 R4 R1 | |

WARNING

Always replace fuses and circuit breakers with the same type and current / amperage rating. Increasing fuse or circuit breaker rating or changing type of fuse may result in circuit overheating and possibly fire.

VOLVO
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Figure 4

The above guide is located on the lid of the fuse, relay panel. Locate the appropriate power and ground connections then cross reference to install fuse in correct location.