

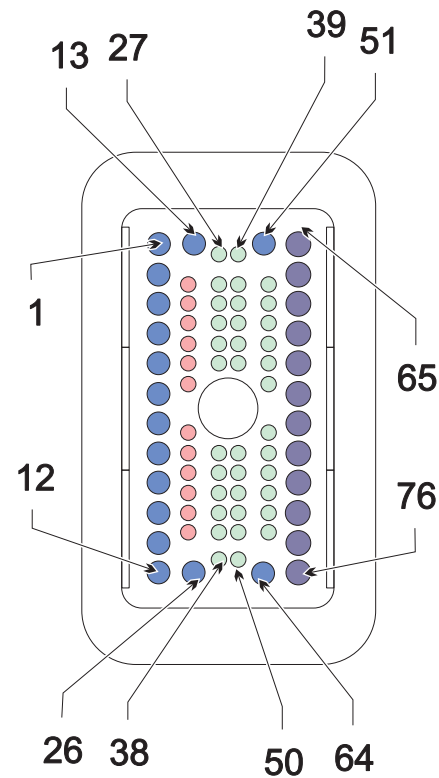


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Connection Pinouts**

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This guide is to be used as a reference document only. Please consult your Western Star CAE representative on specific spec'ing needs as the information contained in this document can change without notice.



Plug Part Number
23-13153-063
AFLR 63694 001

Male Pin # (Outside Plug)
Small Pin

- ● 18-20 Part # 23-13211-410
- ● 14-16 Part # 23-13211-431

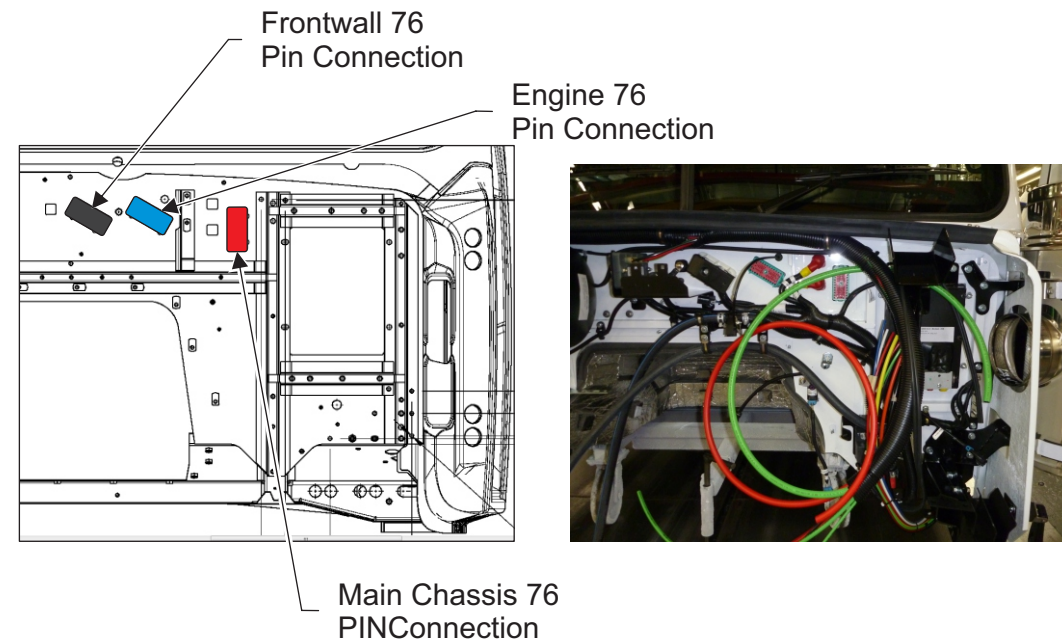
- ● **Large Pin**
- 10-12 Part # 23-13211-432

Female Pin # (Inside Plug)
Small Pin

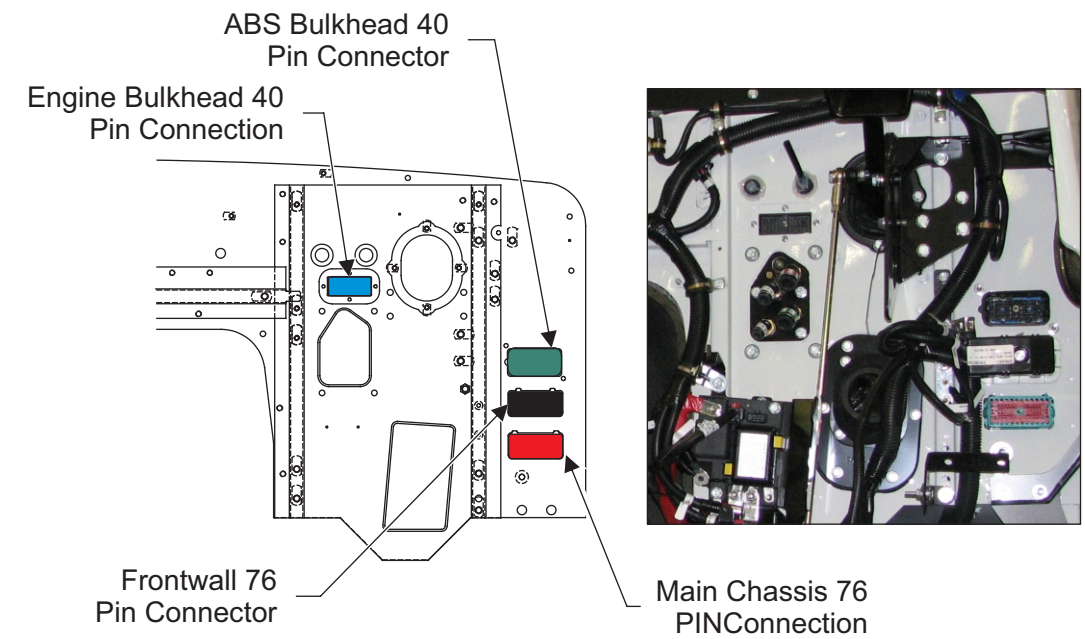
- ● 18-20 Part # 23-13211-420
- ● 14-16 Part # 23-13211-421

- ● **Large Pin**
- 10-12 Part # 23-13211-422

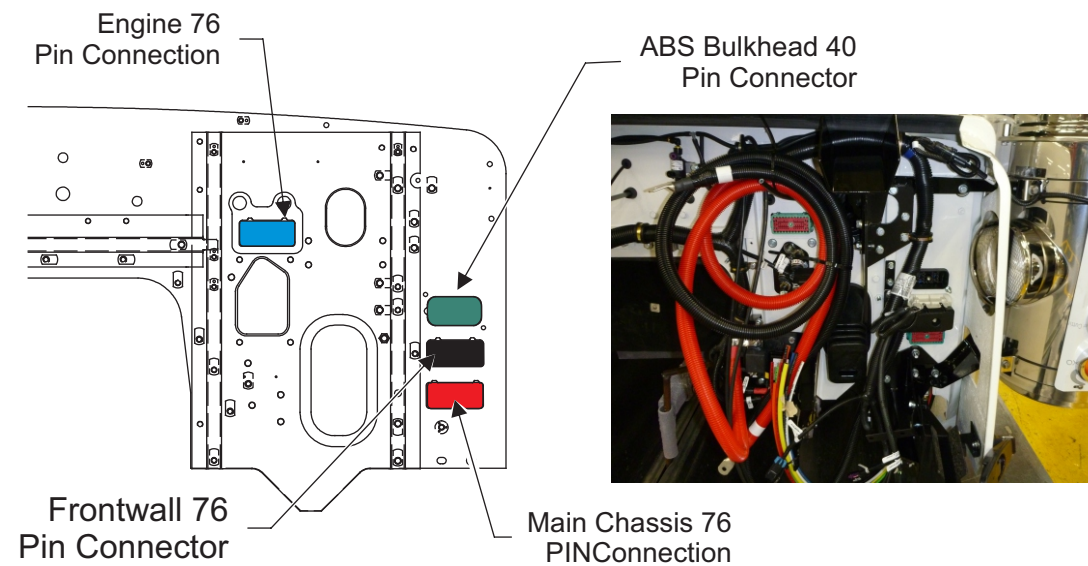
RHD 4700 and 48/48/6900 2011 ADR11



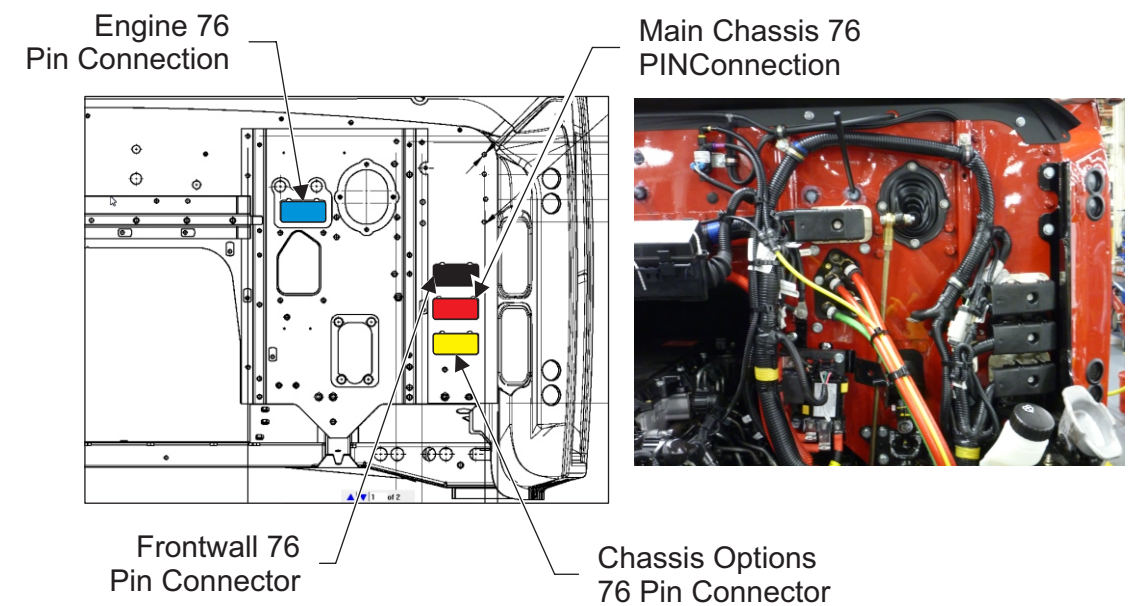
LHD 48/49/6900 2006-2012 LHD



LHD WST 2014 48/49/6900



LHD WST 2014 4700





LHD 2014 48/49/6900 Main Chassis Bulkhead

**Pin
Connection
Reference
See Page
1C-2**

| JCHA Chassis Plug Pins 1 to 39 | | | | | | Chassis Plug Pins 40 to 76 | | | | | |
|--------------------------------|-----|-------|----------|-------|------------------------------------|----------------------------|-----|-------|----------|-------|------------------------------|
| Wire Code | Mod | Pin # | Pin Size | Gauge | FUNCTION | Wire Code | Mod | Pin # | Pin Size | Gauge | FUNCTION |
| | | 1 | Large | | Not Assigned | AS10B | 329 | 40 | Small | 16 | EXTRA SWITCH #10 |
| | | 2 | Large | | Not Assigned | AS26B | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| | | 3 | Large | | Not Assigned | AS37D | 329 | | Small | 14 | EXTRA SWITCH #1 |
| ES03B | 154 | 4 | Large | 16 | ETHER START | AS02B | 329 | 41 | Small | 16 | EXTRA SWITCH #2 |
| 46A | 288 | 5 | Large | 12 | TRAILER MARKER LIGHTS | AS37E | 329 | | Small | 14 | EXTRA SWITCH #1 |
| 38L | 288 | 6 | Large | 12 | TRAILER LEFT TURN | WB02F | 142 | 42 | Small | 16 | WEBASTO |
| 36B | 288 | 7 | Large | 12 | TRAILER STOP | 38L | 288 | 43 | Small | 16 | LEFT HAND FRONT SIGNAL LIGHT |
| TL05A | 308 | 8 | Large | 12 | TRAILER ACCESSORY POWER | 47G | 288 | 44 | Small | 16 | GROUND |
| | | 9 | Large | | Not Assigned | 94 | 288 | 45 | Small | 14 | AIR DRYER |
| WB01B | 142 | 10 | Large | 16 | WEBASTO RELAY COIL POWER | 24 | 288 | 46 | Small | 16 | HORN |
| HL27B | 312 | 11 | Large | 14 | RIGHT HAND LOW BEAM | IN18H | 87B | 47 | Small | 16 | REAR DIFFERENTIAL LOCK |
| HL28B | 312 | 12 | Large | 14 | LEFT HAND LOW BEAM | IN40B | 847 | 48 | Small | 18 | FUEL GAUGE OPTIONAL |
| | | 13 | Large | | Not Assigned | AS07B | 329 | 49 | Small | 16 | EXTRA SWITCH #7 |
| 200 | 376 | 14 | Small | 16 | PTO CONTROL | AS25B | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| TC13D | 376 | | Small | 16 | TRANSFER CASE ENGAGED | LA01A | 87F | 50 | Small | 16 | LIFT AXLE |
| BL17B | 31J | 15 | Small | 16 | CUSTOMER FURNISHED LAMP 2 | 440P | 148 | 51 | Small | 16 | POWER TAKE OFF |
| AS04B | 329 | 16 | Small | 16 | EXTRA SWITCH #4 | BL29B | 31J | 52 | Small | 16 | CUSTOMER FURNISHED LAMP 5 |
| AS41D | 329 | | Small | 14 | EXTRA SWITCH #3 | AS09B | 329 | 53 | Small | 16 | EXTRA SWITCH #9 |
| 20L | 288 | 17 | Small | 14 | LEFT HAND LOW BEAM | AS26D | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| 27A | 288 | 18 | Small | 14 | DRIVING LIGHTS | AS39D | 329 | | Small | 14 | EXTRA SWITCH #2 |
| AX12A | 45E | 19 | Small | 16 | DIFFERENTIAL LOCK FRONT DRIVE AXLE | AS01B | 329 | 54 | Small | 16 | EXTRA SWITCH #1 |
| 120B | 288 | 20 | Small | 14 | BACKUP SIGNAL | AS39E | 329 | | Small | 14 | EXTRA SWITCH #2 |
| 28F | 288 | 21 | Small | 14 | FOG LIGHTS | 21L | 288 | 55 | Small | 14 | RIGHT LOW BEAM |
| 15E | 148 | 22 | Small | 16 | POWER TAKE OFF REMOTE START | 38R | 288 | 56 | Small | 16 | RIGHT SIGNAL LIGHT FRONT |
| WB05F | 142 | 23 | Small | 16 | WEBASTO | 39R | 288 | 57 | Small | 14 | RIGHT SIGNAL LIGHT REAR |
| AS05B | 329 | 24 | Small | 16 | EXTRA SWITCH #5 | GNDE | 148 | 58 | Small | 16 | POWER TAKE OFF |
| BL19B | 31J | 25 | Small | 16 | CUSTOMER FURNISHED LAMP 3 | | | 59 | Small | 18 | Not Assigned |
| 21H | 288 | 26 | Large | 12 | RIGHT HAND HIGH BEAM | IN68H | 87B | 60 | Small | 16 | CENTER DIFFERENTIAL LOCK |
| AS27B | 329 | 27 | Small | 16 | 3-WAY EXTRA SWITCH | RB06A | 327 | 61 | Small | 14 | ROTATING BEACON |
| BL08B | 31J | 28 | Small | 16 | CUSTOMER FURNISHED LAMP 1 | AS08B | 329 | 62 | Small | 16 | EXTRA SWITCH #8 |
| AS03B | 329 | 29 | Small | 16 | EXTRA SWITCH #3 | AS25D | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| AS41E | 329 | | Small | 16 | | BL28B | 31J | 63 | Small | 16 | CUSTOMER FURNISHED LAMP 4 |
| AS27D | 329 | 30 | Small | 16 | 3-WAY EXTRA SWITCH | 20H | 288 | 64 | Large | 12 | LEFT HAND HIGH BEAM |
| 483Z | 148 | 31 | Small | 16 | PTO CONTROL | | | 65 | | | Not Assigned |
| 47 | 288 | 32 | Small | 16 | FUEL LEVEL SIGNAL | HL25B | 312 | 66 | Large | 14 | LEFT HAND HIGH BEAM |
| 39L | 288 | 33 | Small | 14 | LEFT HAND REAR TURN SIGNAL | HL26B | 312 | 67 | Large | 14 | RIGHT HAND HIGH BEAM |
| AS43D | 329 | 34 | Small | 14 | EXTRA SWITCH #4 | FH03C | 220 | 68 | Large | 10 | FUEL HEATER POWER |
| | | | Small | | Not Assigned | 38R | 288 | 70 | Large | 12 | TRAILER RIGHT TURN SIGNAL |
| IN17H | 87B | 35 | Small | 16 | FORWARD DIFFERENTIAL LOCK | 23 | 288 | 71 | Large | 12 | PARK LMPS |
| IN70A | 87B | 36 | Small | 16 | SISU INTER AXLE LOCK | 376 | 288 | 72 | Large | 12 | TRAILER ABS POWER |
| AS06B | 329 | 37 | Small | 16 | EXTRA SWITCH #6 | FP01C | 127 | 73 | Large | 16 | WATER IN FUEL SIGNAL |
| AS43E | 329 | | Small | 14 | EXTRA SWITCH #4 | FP02A | 127 | | Large | 14 | FUEL/WATER SEPARATOR POWER |
| IN85C | 864 | 38 | Small | 16 | AUXILIARY TRANSMISSION TEMP | WB04B | 142 | 74 | Large | 16 | WEBASTO PRE HEATER |
| 15E | 148 | 39 | Small | 16 | PTO CONTROL | | | 75 | | | Not Assigned |
| | | | | | | | | 76 | | | Not Assigned |



LHD 2014 48/49/69 FNT Wall 76 Pin Bulkhead

Detroit HDEP

| Plug Cavity | DETROIT HDEP | | | | Plug Cavity | DETROIT HDEP | | | |
|-------------|---------------|-------|--------|-----------------------------------|-------------|---------------|-------|-------------------------------------|-------------|
| | Wire # | Gauge | Module | Description | | Wire # | Gauge | Module | Description |
| 1 | 498B | 2 | 129 | TRANS. ANALOG RTN | 39 | | | Not Assigned | |
| 2 | 498A | 2 | 129 | TRANS REF VOLTAGE (+5V) | 40 | | | Not Assigned | |
| 3 | | | | Not Assigned | 41 | HT43H / 98N | 320 | HVAC,AUX,CONST TEMP CTRL UNIT SPLY | |
| 4 | | | | Not Assigned | 42 | | | Not Assigned | |
| 5 | | | | Not Assigned | 43 | HT03A / 91G | 320 | FAN SIG,CAB HVAC | |
| 6 | | | | Not Assigned | 44 | GA01D / 1587+ | 320 | DATABUS,POS,GENERAL USE,SAE J1587 | |
| 7 | 497S | 2 | 129 | TRANS RTDR MOD REQ | 45 | | | Not Assigned | |
| 8 | AC12C / 447H | | 320 | BAT PROT IGN ACCESS BUS SPLY | 46 | HT43G / 98N | 320 | HVAC,AUX,CONST TEMP CTRL UNIT SPLY | |
| 9 | RA11B / 95AL+ | | 320 | SPEAKER SIG,AFT/LH | 47 | | | Not Assigned | |
| 10 | RA12B / 95AL- | | 320 | SPEAKER RTN,AFT/LH | 48 | | | Not Assigned | |
| 11 | | | | Not Assigned | 49 | 472U | 0.8 | OI Thermostat Signal | |
| 12 | | | | Not Assigned | 50 | | | Not Assigned | |
| 13 | 497C5 | 2 | 129 | TRANS, TCU OUTPUT #5 | 51 | | | Not Assigned | |
| 14 | BL1BG / 514B | | 320 | REVERSE ALARM SPLY | 52 | ST02C / 15 | 320 | START SIG SW OUTPUT | |
| 15 | IN40E / 47 | | 320 | FUEL LEVEL GAUGE SIG | 53 | BL01C / 120 | 320 | BACK-UP SW SPLY | |
| 16 | | | | | 54 | 91D | 1 | DF COOLANT HEATER SIG | |
| 17 | | | | | 55 | | | Not Assigned | |
| 18 | IG14J / 339A | | 320 | LIGHTBAR/ICU IGN SPLY | 56 | | | Not Assigned | |
| 19 | | | | Not Assigned | 57 | J1939+ | 0.8 | J1939 Vehicle Bus Drop to RX Module | |
| 20 | | | | Not Assigned | 58 | J1939- | 0.8 | J1939 Vehicle Bus Drop to RX Module | |
| 21 | LB01C / 440H | | 320 | EENG SHTDN WRN IND LP SIG | 59 | HT44B / 338A- | | HVAC ECU ACUATOR 1 CTRL RTN | |
| 22 | HT45B / 338A+ | | 320 | HVAC ECU ACTR 1 CTRL SIG | 60 | | | Not Assigned | |
| 23 | | | | Not Assigned | 61 | 439A | 0.8 | OI Thermostat Power | |
| 24 | | | | Not Assigned | 62 | 440L | 0.8 | Low Coolant Level Switch | |
| 25 | | | | Not Assigned | 63 | 440G | 0.8 | Sensor Common | |
| 26 | | | | Not Assigned | 64 | | | Not Assigned | |
| 27 | | | | Not Assigned | 65 | 497D7 | 2 | TRANS, TCU INPUT #7 | |
| 28 | GD5DH / GNDE | | 320 | GND,ELECTRONICS | 66 | | | Not Assigned | |
| 29 | | | | Not Assigned | 67 | | | Not Assigned | |
| 30 | WW01F / 320 | | 320 | WIPER WASH MOT SPLY,WINDSHIELD | 68 | | | Not Assigned | |
| 31 | HT03D / 338J | | 320 | HVAC A/C CLUTCH REQUEST SIG | 69 | | | Not Assigned | |
| 32 | GA02D / 1587- | | 320 | DATABUS,NEG,GENERAL USE,SAE J1587 | 70 | | | Not Assigned | |
| 33 | ML03K / 46 | | 320 | MARKER LP SPLY,TRACTOR | 71 | | | Not Assigned | |
| 34 | LB02C / 440A | | 320 | EENG CHECK ENG IND LP SIG | 72 | RA09B / 95AR+ | 320 | SPEAKER SIG,AFT/RH | |
| 35 | GD2 | 0.8 | 156 | OI Thermostat common | 73 | EN12V / 441 | 320 | EENG ECU MAIN PWR-FUSED | |
| 36 | | | | Not Assigned | 74 | RA10B / 95AR- | 320 | SPEAKER RTN,AFT/RH | |
| 37 | | | | Not Assigned | 75 | | | Not Assigned | |
| 38 | | | | Not Assigned | 76 | | | Not Assigned | |

Pin Connection Reference
See Page 1C-2



LHD 2014 48/49/69 Engine 76 Pin Bulkhead

**Detroit
HDEP**

**Pin
Connection
Reference
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1C-2**

| Plug Cavity | HDEP with Manual | | | | HDEP with Automated | | | | HDEP with Allison Automatic | | | |
|-------------|------------------|-------|--------|--|---------------------|-------|--------|--|-----------------------------|-------|---------|--|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off |
| 3 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 4 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 5 | 439A* | 1 | 283 | Ignition source from dash | 439A* | 1 | 283 | Ignition source from dash | 439A* | 1 | 283 | Ignition source from dash |
| 6 | 439C | 2 | 283 | Powertrain 12V Power | 439C | 2 | 283 | Powertrain 12V Power | 439C | 2 | 283 | Powertrain 12V Power |
| 7 | 472R | 0.8 | 156 | OI Alram | 472R | 0.8 | 156 | OI Alarm | | | | Not Assigned |
| 8 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 9 | 440F | 0.8 | 149 | Cruise Resume | 440F | 0.8 | 149 | Cruise Resume | 440F | 0.8 | 149 | Cruise Resume |
| 10 | 440E | 0.8 | 149 | Cruise Set | 440E | 0.8 | 149 | Cruise Set | 440E | 0.8 | 149 | Cruise Set |
| 11 | 440D | 0.8 | 149 | Cruise On | | | | Not Assigned | | | | Not Assigned |
| 12 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 13 | 475T | 0.8 | 156 | OI hood tilt switch | 475T | 0.8 | 156 | OI hood tilt switch | | | | Not Assigned |
| 14 | 62CH/MH | 0.8 | 283 | Powertrain CAN pos | 62CH | 0.8 | 283 | Powertrain CAN pos | 62CH | 0.8 | 283 | Powertrain CAN pos |
| 15 | 62CL/ML | 0.8 | 283 | Powertrain CAN neg | 62CL | 0.8 | 283 | Powertrain CAN neg | 62CL | 0.8 | 283 | Powertrain CAN neg |
| 16 | GNDE | 2 | 283 | Powertrain Ground | GNDE | 2 | 283 | Powertrain Ground | GNDE | 2 | 283 | Powertrain Ground |
| 17 | 440G | 0.8 | 283 | Sensor Ground | 440G | 0.8 | 283 | Sensor Ground | 440G | 0.8 | 283 | Sensor Ground |
| 18 | 440Y | 0.8 | 276 | AC Engine Fan On Request | 440Y | 0.8 | 276 | AC Engine Fan On Request | 440Y | 0.8 | 276 | AC Engine Fan On Request |
| 19 | | | | Not Assigned | 440P2+ | 0.8 | 283 | VSS +5V Power for OI | 440P2+ | 0.8 | 283 | VSS +5V Power for OI |
| 20 | 439A | 1 | 283 | Ignition signal to dash | 439A | 1 | 283 | Ignition signal to dash | 439A | 1 | 283 | Ignition signal to dash |
| 21 | 472S2 | 0.8 | 156 | Start request from key switch via eng harn | 472S2 | 0.8 | 156 | Start request from key switch via eng harn | 472S2 | 0.8 | 156 | Start request from key switch via eng harn |
| 22 | 439N | 0.8 | 156 | OI Neutral Switch | 439N | 0.8 | 156 | OI Neutral Switch | | | | Not Assigned |
| 23 | 439S+ | 0.8 | 283 | Vehicle speed sensor pos | 439S+ | 0.8 | 283 | Vehicle speed sensor pos | 439S+ | 0.8 | 283 | Vehicle speed sensor pos |
| 24 | 439S- | 0.8 | 283 | Vehicle speed sensor neg | 439S- | 0.8 | 283 | Vehicle speed sensor neg | 439S- | 0.8 | 283 | Vehicle speed sensor neg |
| 25 | | | | Not Assigned | | | | Not Assigned | 200M | 0.8 | 372/885 | PTO sol #2 sup trans |
| 26 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 27 | 433 | 1 | 813 | Data Pwr Sply. (Virt. Tech) | 433 | 1 | 813 | Data Pwr Sply. (Virt. Tech) | 433 | 1 | 813 | Data Pwr Sply. (Virt. Tech) |
| 28 | J1939+ | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module | J1939+ | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module | J1939+ | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module |
| 29 | J1939- | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module | J1939- | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module | J1939- | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module |
| 30 | 62CC/MC | 0.8 | 283 | Powertrain Can shield | 62CC | 0.8 | 283 | Powertrain Can shield | 62CC | 0.8 | 283 | Powertrain Can shield |
| 31 | 62CS/Ms | 0.8 | 283 | Powertrain Can shield | 62CS | 0.8 | 283 | Powertrain Can shield | 62CS | 0.8 | 283 | Powertrain Can shield |
| 32 | 62AC | 0.8 | 283 | Powertrain Can shield | 62AC | 0.8 | 283 | Powertrain Can shield | 62AC | 0.8 | 283 | Powertrain Can shield |
| 33 | 62AL | 0.8 | 283 | Powertrain CAN neg | 62AL | 0.8 | 283 | Powertrain CAN neg | 62AL | 0.8 | 283 | Powertrain CAN neg |
| 34 | 62AH | 0.8 | 283 | Powertrain CAN pos | 62AH | 0.8 | 283 | Powertrain CAN pos | 62AH | 0.8 | 283 | Powertrain CAN pos |
| 35 | 62AS | 0.8 | 283 | Powertrain Can shield | 62AS | 0.8 | 283 | Powertrain Can shield | 62AS | 0.8 | 283 | Powertrain Can shield |
| 36 | | | | Not Assigned | 497D3 | 0.8 | 372 | Trans. TCU input #3 | 497D3 | 0.8 | 372 | Trans. TCU input #3 |
| 37 | | | | Not Assigned | 497C1 | 0.8 | 372 | Trans. TCU output #1 | 497C1 | 0.8 | 372 | Trans. TCU output #1 |
| 38 | | | | Not Assigned | 200E | 0.8 | 372 | PTO sol sup trans | 200E | 0.8 | 372 | PTO sol #1 sup trans |
| 39 | | | | Not Assigned | 200K | 0.8 | 372 | PTO ind lp #1 sig | 200K | 0.8 | 372 | PTO ind lp #1 sig |
| 40 | | | | Not Assigned | | | | Not Assigned | 200A | 0.8 | 372/885 | PTO ind lp #2 sig |
| 41 | | | | Not Assigned | 440G | 0.8 | GXL | EENG #1 SNSR COM GND | 440G | 0.8 | GXL | EENG #1 SNSR COM GND |
| 42 | | | | Not Assigned | 492P | 0.8 | GXL | EENG REMOTE ENG STOP SIG. | 492P | 0.8 | GXL | EENG REMOTE ENG STOP SIG. |
| 43 | | | | Not Assigned | 1587+ | 0.8 | 34B | Trans Shift Display Databus | 497B | 0.8 | 34B | Reverse Ind. |
| 44 | | | | Not Assigned | 1587- | 0.8 | 34B | Trans Shift Display Databus | 497F | 0.8 | 34B | Neutral Start Enable |
| 45 | | | | Not Assigned | | | | Not Assigned | 498C | 0.8 | 34B | Oil Level |
| 46 | | | | Not Assigned | 497D10 | 0.8 | 34B | Auto-Neutral Input | 498D | 0.8 | 34B | Sump Temp Input |
| 47 | | | | Not Assigned | 497Y | 0.8 | 34B | Auto-Neutral Return | 531D | 0.8 | 34B | Trans Pressure Drop - 6spd |
| 48 | | | | Not Assigned | | | | Not Assigned | 498E | 0.8 | 34B | Trans ID |
| 49 | | | | Not Assigned | | | | Not Assigned | 498P2 | 0.8 | 34B | Shift Solenoid 2 - 7 spd |
| 50 | | | | Not Assigned | 200H | 0.8 | 885 | PTO rqst, ETN US PLS | 498T | 0.8 | 34B | Press Ctrl Sol 6 - 7 spd |
| 51 | | | | Not Assigned | | | | Not Assigned | BL1BG | 0.8 | 34B | Back up relay |
| 52 | | | | Not Assigned | | | | Not Assigned | 497M1 | 0.8 | 34B | Output Speed Sensor + |
| 53 | | | | Not Assigned | 223K+ | 0.8 | 34B | Shifter HIL + | 497M1 | 0.8 | 34B | Output Speed Sensor + |
| 54 | | | | Not Assigned | 223K- | 0.8 | 34B | Shifter HIL - | 497M2 | 0.8 | 34B | Output Speed Sensor - |
| 55 | | | | Not Assigned | 223DD | 0.8 | 34B | Shift Control GND | 497L1 | 0.8 | 34B | Engine Speed Sensor + |
| 56 | | | | Not Assigned | 223DC | 0.8 | 34B | Shift Control Pwr | 497L2 | 0.8 | 34B | Engine Speed Sensor - |
| 57 | | | | Not Assigned | GL1 | 0.8 | 34B | Trans Shift Display Dimmer | 497N1 | 0.8 | 34B | Turbine Speed Sensor + |
| 58 | 97G | 1 | 70B | Binary Sw | 97G | 1 | 70B | Binary Sw | 497N2 | 0.8 | 34B | Turbine Speed Sensor - |
| 59 | 338J | 1 | 70B | Binary Sw | 338J | 1 | 70B | Binary Sw | 498A | 0.8 | 34B | Sensor Supply |
| 60 | GNDE | 1 | 70B | Ground | GND | 1 | 70B | Compressor Ground - HVAC | GND | 1 | 70B | Compressor Ground - HVAC |
| 61 | | | | Not Assigned | | | | Not Assigned | 497B | 0.8 | 34B | Reverse Warning |
| 62 | | | | Not Assigned | | | | Not Assigned | 497F | 0.8 | 34B | Neutral Start Enable |
| 63 | | | | Not Assigned | | | | Not Assigned | 531D | 0.8 | 34B | Trans Pressure Drop |
| 64 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 65 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 66 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 67 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 68 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 69 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 70 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 71 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 72 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 73 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 74 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 75 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |
| 76 | | | | Not Assigned | | | | Not Assigned | | | 34B | TRANS RESERVED |



LHD 2014 48/49/69 Engine 76 Pin Bulkhead

Cummins ISX

| Pug Cavity | CUMMINS ISX with Manual | | | | CUMMINS With Automated | | | | CUMMINS with Allison | | | |
|------------|-------------------------|-------|--------|--------------------------------|------------------------|-------|--------|--------------------------------|----------------------|-------|--------|--------------------------------|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | | | | | | | | | |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off |
| 3 | 440G | 0.8 | 148 | GROUND VOCATIONAL APPLICATIONS | 440G | 0.8 | 148 | GROUND VOCATIONAL APPLICATIONS | 440G | 0.8 | 148 | Ground Vocational Applications |
| 4 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 5 | 439A | 1 | 283 | Ignition source from dash | 439A | 1 | 283 | Ignition source from dash | 439A | 1 | 283 | Ignition source from dash |
| 6 | 440B | 0.8 | 283 | Service brake switch | 440B | 0.8 | 283 | Service brake switch | 440B | 0.8 | 283 | Service brake switch |
| 7 | 440J | 0.8 | 129 | Engbrake sw1 | 440J | 0.8 | 129 | Engbrake sw1 | 440J | 0.8 | 129 | Engbrake sw1 |
| 8 | 440K | 0.8 | 129 | Engbrake sw2 | 440K | 0.8 | 129 | Engbrake sw2 | 440K | 0.8 | 129 | Engbrake sw2 |
| 9 | 440F | 0.8 | 149 | Cruise RES/ACC | 440F | 0.8 | 149 | Cruise RES/ACC | 440F | 0.8 | 149 | Cruise RES/ACC |
| 10 | 440E | 0.8 | 149 | Cruise SET/COAST | 440E | 0.8 | 149 | Cruise SET/COAST | 440E | 0.8 | 149 | Cruise SET/COAST |
| 11 | 440D | 0.8 | 149 | Cruise On/Off | 440D | 0.8 | 149 | Cruise On/Off | 440D | 0.8 | 149 | Cruise On/Off |
| 12 | 492H | 0.8 | 28F | MIL lamp | 492H | 0.8 | 28F | MIL lamp | 492H | 0.8 | 28F | MIL lamp |
| 13 | 492J | 0.8 | 28F | DPF lamp | 492J | 0.8 | 28F | DPF lamp | 492J | 0.8 | 28F | DPF lamp |
| 14 | 492L | 0.8 | 28F | Hest lamp | 492L | 0.8 | 28F | Hest lamp | 492L | 0.8 | 28F | Hest lamp |
| 15 | 492K | 0.8 | 28F | regen request switch | 492K | 0.8 | 28F | regen request switch | 492K | 0.8 | 28F | regen request switch |
| 16 | 492M | 0.8 | 28F | regen inhibit request switch | 492M | 0.8 | 28F | regen inhibit request switch | 492M | 0.8 | 28F | regen inhibit request switch |
| 17 | 440G | 1 | 283 | Switch common | 440G | 1 | 283 | Switch common | 440G | 1 | 283 | Switch common |
| 18 | 431C | 0.8 | 132 | Wait to start light | 431C | 0.8 | 132 | Wait to start light | 431C | 0.8 | 132 | Wait to start light |
| 19 | 440Z | 0.8 | 276 | Fan Control Switch Signal | 440Z | 0.8 | 276 | Fan Control Switch Signal | 440Z | 0.8 | 276 | Fan Control Switch Signal |
| 20 | 440S | 0.8 | 283 | stop engine LED | 440S | 0.8 | 283 | stop engine LED | 440S | 0.8 | 283 | stop engine LED |
| 21 | 440A | 0.8 | 283 | check engine light | 440A | 0.8 | 283 | check engine light | 440A | 0.8 | 283 | check engine light |
| 22 | 440P- | 0.8 | 283 | Throttle return1 | 440P- | 0.8 | 283 | Throttle return1 | 440P- | 0.8 | 283 | Throttle return1 |
| 23 | 440T | 0.8 | 283 | Throttle pedal signal 1 | 440T | 0.8 | 283 | Throttle pedal signal 1 | 440T | 0.8 | 283 | Throttle pedal signal 1 |
| 24 | 440P+ | 0.8 | 283 | Throttle power 1 | 440P+ | 0.8 | 283 | Throttle power 1 | 440P+ | 0.8 | 283 | Throttle power 1 |
| 25 | 440P2- | 0.8 | 283 | Throttle return2 | 440P2- | 0.8 | 283 | Throttle return2 | 440P2- | 0.8 | 283 | Throttle return2 |
| 26 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 |
| 27 | 440P2+ | 0.8 | 283 | Throttle power2 | 440P2+ | 0.8 | 283 | Throttle power2 | 440P2+ | 0.8 | 283 | Throttle power2 |
| 28 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 |
| 29 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 |
| 30 | 440C | 0.8 | 149 | Clutch Switch | 440C | 0.8 | 149 | Clutch Switch | 440C | 0.8 | 149 | Clutch Switch |
| 31 | 440X | 0.8 | 283 | Park brake signal | 440X | 0.8 | 283 | Park brake signal | 440X | 0.8 | 283 | Park brake signal |
| 32 | 15 | 0.8 | 156 | Crank signal | 15 | 0.8 | 156 | Crank signal | 15 | 0.8 | 156 | Crank signal |
| 33 | 439U | 0.8 | 148 | REMOTE PTO ON/OFF SIG | 439U | 0.8 | 148 | REMOTE PTO ON/OFF SIG | 439U | 0.8 | 148 | REMOTE PTO ON/OFF SIG |
| 34 | 483R | 0.8 | 148 | MAX OPERATING SPD/GOV | 483R | 0.8 | 148 | MAX OPERATING SPD/GOV | 483R | 0.8 | 148 | MAX OPERATING SPD/GOV |
| 35 | 483E | 0.8 | 148 | TACHOMETER | 483E | 0.8 | 148 | TACHOMETER | 483E | 0.8 | 148 | TACHOMETER |
| 36 | 483N | 0.8 | 148 | REMOTE THROT ON/OFF SIG | 483N | 0.8 | 148 | REMOTE THROT ON/OFF SIG | 483N | 0.8 | 148 | REMOTE THROT ON/OFF SIG |
| 37 | 483C | 0.8 | 148 | REMOTE THROT POSN SIG | 483C | 0.8 | 148 | REMOTE THROT POSN SIG | 483C | 0.8 | 148 | REMOTE THROT POSN SIG |
| 38 | 440P2+ | 0.8 | 148 | REMOTE THROT POWER | 440P2+ | 0.8 | 148 | REMOTE THROT POWER | 440P2+ | 0.8 | 148 | REMOTE THROT POWER |
| 39 | 440P2- | 0.8 | 148 | REMOTE THROT POSN SNSR RTN | 440P2- | 0.8 | 148 | REMOTE THROT POSN SNSR RTN | 440P2- | 0.8 | 148 | REMOTE THROT POSN SNSR RTN |
| 40 | 472Y | 0.8 | 283 | AAT SNSR SIGNAL | 472Y | 0.8 | 283 | AAT SNSR SIGNAL | 472Y | 0.8 | 283 | AAT SNSR SIGNAL |
| 41 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 42 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 43 | | | | Not Assigned | 1587+ | 0.8 | 34B | Trans Shift Display Databus | 232E | 0.8 | 34B | Trans Shifter IGN |
| 44 | | | | Not Assigned | 1587- | 0.8 | 34B | Trans Shift Display Databus | 232D | 0.8 | 34B | Trans Shifter Bat |
| 45 | | | | Not Assigned | 497D10 | 0.8 | 34B | Auto-Neutral Input | | | | TRANS RESERVED |
| 46 | | | | Not Assigned | 497Y | 0.8 | 34B | Auto-Neutral Return | | | | TRANS RESERVED |
| 47 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 48 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 49 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 50 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 51 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 52 | | | | Not Assigned | | | | Not Assigned | 497M1 | 0.8 | 34B | Output Speed Sensor + |
| 53 | | | | Not Assigned | 223K+ | 0.8 | 34B | Shifter HIL + | 497M2 | 0.8 | 34B | Output Speed Sensor - |
| 54 | | | | Not Assigned | 223K- | 0.8 | 34B | Shifter HIL - | 497L1 | 0.8 | 34B | Engine Speed Sensor + |
| 55 | | | | Not Assigned | 223DD | 0.8 | 34B | Shift Control GND | 497L2 | 0.8 | 34B | Engine Speed Sensor - |
| 56 | | | | Not Assigned | 223DC | 0.8 | 34B | Shift Control Pwr | 497N1 | 0.8 | 34B | Turbine Speed Sensor + |
| 57 | | | | Not Assigned | | | | Not Assigned | 497N2 | 0.8 | 34B | Turbine Speed Sensor - |
| 58 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 59 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 60 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 61 | | | | Not Assigned | | | | Not Assigned | 497B | 0.8 | 34B | Reverse Warning |
| 62 | | | | Not Assigned | | | | Not Assigned | 497F | 0.8 | 34B | Neutral Start Enable |
| 63 | | | | Not Assigned | | | | Not Assigned | 531D | 0.8 | 34B | Trans Pressure Drop |
| 64 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 65 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 66 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 67 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 68 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 69 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 70 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 71 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 72 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 73 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 74 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 75 | | | | Not Assigned | | | | Not Assigned | 232D | 2 | 34B | Battery Ground |
| 76 | | | | Not Assigned | | | | Not Assigned | GNDE | 3 | 34B | Battery Positive |

Pin Connection Reference See Page 1C-2



LHD 2014 4700 Main Chassis 76 Pin Bulkhead

**Pin
Connection
Reference
See Page
1C-2**

| Plug Cavity | 4700 Chassis Connector CHAS_F_H_DASH_JCHA_2A | | | | | Plug Cavity | 4700 Chassis Connector CHAS_F_H_DASH_JCHA_2A | | | | |
|-------------|--|-------|--------|---------------------------------|--------------|-------------|--|-------|--------------|----------------------------------|--------------|
| | Wire # | Gauge | Module | Description | Mating CIR # | | Wire # | Gauge | Module | Description | Mating CIR # |
| 1 | | | | Not Assigned | | 39 | | | Not Assigned | | |
| 2 | | | | Not Assigned | | 40 | | | Not Assigned | | |
| 3 | | | | Not Assigned | | 41 | | | Not Assigned | | |
| 4 | | | | Not Assigned | | 42 | | | Not Assigned | | |
| 5 | 46A | 3 | 30A | MARKER LIGHTS | ML06A | 43 | 38L | 1 | 301 | Not Assigned | TL04C |
| 6 | 38LT | 2 | 301 | TRAILER LEFT TURN | TL04A | 44 | 47G | 1 | 847 | FUEL LEVEL GROUND | GND |
| 7 | 36B | 3 | 877 | STOP LIGHTS | TL10T | 45 | 94 | 2 | 48A | AIR DRYER POWER | AD02A |
| 8 | 155F | 2 | 308 | TRAILER ACCESSORY POWER | AC22A | 46 | 24B | 1 | 264 | ELECTRIC HORN | HN03A |
| 9 | | | | Not Assigned | | 47 | | | Not Assigned | | |
| 10 | | | | Not Assigned | | 48 | | | Not Assigned | | |
| 11 | 21E | 2 | 313 | SNOW PLOW - RIGHT HAND LOW BEAM | HL27A | 49 | | | Not Assigned | | |
| 12 | 20E | 2 | 313 | SNOW PLOW - LEFT HAND LOW BEAM | HL28A | 50 | | | Not Assigned | | |
| 13 | | | | Not Assigned | | 51 | | | Not Assigned | | |
| 14 | 266A | 0.8 | 376 | PTO/TRANSFER CASE WIRING | 266A | 52 | | | Not Assigned | | |
| 15 | | | | Not Assigned | | 53 | | | Not Assigned | | |
| 16 | | | | Not Assigned | | 54 | | | Not Assigned | | |
| 17 | 20L | 1 | 311 | LEFT HAND LOW BEAM | HL08A | 55 | 21L | 1 | 311 | RIGHT HAND LOW BEAM | HL07A |
| 18 | 27L | 2 | 313 | DRIVING LIGHTS | DL02A | 56 | 38R | 1 | 301 | RIGHT HAND TURN SIGNAL (HDLP) | TL07C |
| 19 | | | | Not Assigned | | 57 | 39R | 1 | 301 | RIGHT HAND TURN SIGNAL (TAIL) | TL06A |
| 20 | 120B | 1 | 35H | BACKUP SIGNAL | BL18G | 58 | Currently Open | | 148 | PTO GROUND | GNDE |
| 21 | 28F | 2 | 313 | FOG LIGHTS | FL02A | 59 | | | Not Assigned | | |
| 22 | | | | Not Assigned | | 60 | | | Not Assigned | | |
| 23 | | | | Not Assigned | | 61 | | | Not Assigned | | |
| 24 | | | | Not Assigned | | 62 | | | Not Assigned | | |
| 25 | | | | Not Assigned | | 63 | | | Not Assigned | | |
| 26 | 21H | 3 | 311 | RIGHT HAND HIGH BEAM | HL09B | 64 | 20H | 3 | 311 | LEFT HAND HIGH BEAM | HL10B |
| 27 | | | | Not Assigned | | 65 | 120B | 2 | 35H | REVERSE LIGHTS | N/A |
| 28 | | | | Not Assigned | | 66 | 20F | 3 | 313 | SNOW PLOW - LEFT HAND HIGH BEAM | HL25A |
| 29 | | | | Not Assigned | | 67 | 21F | 3 | 313 | SNOW PLOW - RIGHT HAND HIGH BEAM | HL26A |
| 30 | | | | Not Assigned | | 68 | | | Not Assigned | | |
| 31 | | | | Not Assigned | | 69 | | | Not Assigned | | |
| 32 | 47 | 0.8 | 847 | FUEL LEVEL SIGNAL | IN40E | 70 | 38RT | 2 | 301 | TRAILER RIGHT TURN | TL07A |
| 33 | 39L | 1 | 301 | LEFT HAND TURN SIGNAL (TAIL) | TL05A | 71 | 23 | 3 | 301 | PARK LAMPS | TL08B |
| 34 | - | - | 66B | WINDSHIELD WASHER | WW01G | 72 | | | Not Assigned | | |
| 35 | | | | Not Assigned | | 73 | 196 | 2 | 127 | FUEL WATER SEPERATOR | FP02B |
| 36 | | | | Not Assigned | | 74 | | | Not Assigned | | |
| 37 | | | | Not Assigned | | 75 | | | Not Assigned | | |
| 38 | | | | Not Assigned | | 76 | 76 | 2 | 74E | HEATED MIRRORS, FNDR MOUNTED | 76 |



LHD 2014 4700 FNT Wall 76 Bulkhead

**Pin
Connection
Reference
See Page
1C-2**

| Plug Cavity | LHD 4700 Front Wall | | | | Plug Cavity | LHD 4700 Front Wall | | | |
|-------------|---------------------|-------|--------|---------------------------------|-------------|---------------------|-------|--------|-------------------------------------|
| | Wire # | Gauge | Module | Description | | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | 39 | | | | Not Assigned |
| 2 | | | | Not Assigned | 40 | | | | Not Assigned |
| 3 | | | | Not Assigned | 41 | | | | Not Assigned |
| 4 | | | | Not Assigned | 42 | | | | Not Assigned |
| 5 | | | | Not Assigned | 43 | | | | Not Assigned |
| 6 | | | | Not Assigned | 44 | | | | Not Assigned |
| 7 | | | | Not Assigned | 45 | | | | Not Assigned |
| 8 | | | | Not Assigned | 46 | | | | Not Assigned |
| 9 | | | | Not Assigned | 47 | | | | Not Assigned |
| 10 | | | | Not Assigned | 48 | | | | Not Assigned |
| 11 | | | | Not Assigned | 49 | | | | Not Assigned |
| 12 | | | | Not Assigned | 50 | | | | Not Assigned |
| 13 | | | | Not Assigned | 51 | GND | 0.8 | 28F | HEST LAMP RELAY |
| 14 | | | | Not Assigned | 52 | 437A | 0.8 | 81B | RX Module Ignition |
| 15 | | | | Not Assigned | 53 | GND4 | 0.8 | 81B | Rx Module GND |
| 16 | 440D | 0.8 | 149 | Cruise On/Off (manual Trans) | 54 | 339D+ | 0.8 | 160 | RX Private J1587 Bus |
| 17 | 440E | 0.8 | 149 | Cruise SET/COAST (manual Trans) | 55 | 339D- | 0.8 | 160 | RX Private J1587 Bus |
| 18 | 440F | 0.8 | 149 | Cruise RES/ACC (manual Trans) | 56 | | | | Not Assigned |
| 19 | 440C | 0.8 | 149 | Clutch Switch (manual Trans) | 57 | J1939+ | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module |
| 20 | | | | Not Assigned | 58 | J1939- | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module |
| 21 | | | | Not Assigned | 59 | 338A+ | 0.8 | 70C | HVAC-AUX WIRING (manual Trans) |
| 22 | | | | Not Assigned | 60 | 338A- | 0.8 | 70C | HVAC-AUX WIRING (manual Trans) |
| 23 | | | | Not Assigned | 61 | | | | Not Assigned |
| 24 | | | | Not Assigned | 62 | | | | Not Assigned |
| 25 | | | | Not Assigned | 63 | | | | Not Assigned |
| 26 | | | | Not Assigned | 64 | | | | Not Assigned |
| 27 | 425G | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 65 | | | | Not Assigned |
| 28 | 425F | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 66 | | | | Not Assigned |
| 29 | 425E | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 67 | | | | Not Assigned |
| 30 | 425D | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 68 | | | | Not Assigned |
| 31 | | | | Not Assigned | 69 | | | | Not Assigned |
| 32 | | | | Not Assigned | 70 | | | | Not Assigned |
| 33 | | | | Not Assigned | 71 | | | | Not Assigned |
| 34 | | | | Not Assigned | 72 | | | | Not Assigned |
| 35 | J1939-C | 0.8 | 160 | Databus Neg J1939 (Rx Mod) | 73 | | | | Not Assigned |
| 36 | J1939+C | 0.8 | 160 | Databus Pos J1939 (Rx Mod) | 74 | | | | Not Assigned |
| 37 | | | | Not Assigned | 75 | | | | Not Assigned |
| 38 | | | | Not Assigned | 76 | | | | Not Assigned |



LHD 2014 4700 Engine 76 Pin Bulkhead

Detroit HDEP

| Plug Cavity | DETROIT HDEP with Manual | | | | DETROIT HDEP with Ultrashift Plus | | | | DETROIT HDEP with Allison | | | |
|-------------|--------------------------|-------|--------|-------------------------------------|-----------------------------------|-------|--------|------------------------------|---------------------------|-------|--------|------------------------------|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off |
| 3 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 4 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 5 | 439A* | 1 | 283 | Ignition source from dash | 439A* | 1 | 283 | Ignition source from dash | 439A* | 1 | 283 | Ignition source from dash |
| 6 | 439B | 2 | 283 | Powertrain 12V Power | 439B | 2 | 283 | Powertrain 12V Power | 439B | 2 | 283 | Powertrain 12V Power |
| 7 | | | | OI reserved | | | | OI reserved | | | | OI reserved |
| 8 | | | | OI reserved | | | | OI reserved | | | | OI reserved |
| 9 | 440F | 0.8 | 149 | Cruise Resume | | | | Not Assigned | | | | Not Assigned |
| 10 | 440E | 0.8 | 149 | Cruise Set | | | | Not Assigned | | | | Not Assigned |
| 11 | 440D | 0.8 | 149 | Cruise On | | | | Not Assigned | | | | Not Assigned |
| 12 | | | | OI reserved | | | | OI reserved | | | | OI reserved |
| 13 | | | | OI reserved | | | | OI reserved | | | | OI reserved |
| 14 | 439D+ | 0.8 | 283 | Powertrain CAN pos | 439D+ | 0.8 | 283 | Powertrain CAN pos | 439D+ | 0.8 | 283 | Powertrain CAN pos |
| 15 | 439D- | 0.8 | 283 | Powertrain CAN neg | 439D- | 0.8 | 283 | Powertrain CAN neg | 439D- | 0.8 | 283 | Powertrain CAN neg |
| 16 | GNDE | 2 | 283 | Powertrain Ground | GNDE | 2 | 283 | Powertrain Ground | GNDE | 2 | 283 | Powertrain Ground |
| 17 | 440G | 0.8 | 283 | Sensor Ground | 440G | 0.8 | 283 | Sensor Ground | 440G | 0.8 | 283 | Sensor Ground |
| 18 | 440Y | 1 | 276 | AC Engine Fan On Request | 440Y | 1 | 276 | AC Engine Fan On Request | 440Y | 1 | 276 | AC Engine Fan On Request |
| 19 | 440L | 0.8 | 152 | Low Coolant Level Switch | 440L | 0.8 | 152 | Low Coolant Level Switch | 440L | 0.8 | 152 | Low Coolant Level Switch |
| 20 | 439A | 1 | 283 | Ignition signal to dash | 439A | 1 | 283 | Ignition signal to dash | 439A | 1 | 283 | Ignition signal to dash |
| 21 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 22 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 23 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 24 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 25 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 26 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 27 | 433 | 1 | 813 | Data Pwr Sply. (Virt. Tech) | 433 | 1 | 813 | Data Pwr Sply. (Virt. Tech) | 433 | 1 | 813 | Data Pwr Sply. (Virt. Tech) |
| 28 | J1939+ | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module | J1939+ | 0.8 | 160 | J1939 Veh Bus Drop to RX Mod | J1939+ | 0.8 | 160 | J1939 Veh Bus Drop to RX Mod |
| 29 | J1939- | 0.8 | 160 | J1939 Vehicle Bus Drop to RX Module | J1939- | 0.8 | 160 | J1939 Veh Bus Drop to RX Mod | J1939- | 0.8 | 160 | J1939 Veh Bus Drop to RX Mod |
| 30 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 31 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 32 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 33 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 34 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 35 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 36 | | | | Not Assigned | | | | Not Assigned | 497C3 | 0.8 | 34C | Autoneutral interlock |
| 37 | | | | Not Assigned | | | | Not Assigned | 497Y | 0.8 | 34C | Autoneutral interlock |
| 38 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 39 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 40 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 41 | 266D | 0.8 | 376 | T-CASE LOW IND LP SIG | 266D | 0.8 | 376 | T-CASE LOW IND LP SIG | 266D | 0.8 | 376 | T-CASE LOW IND LP SIG |
| 42 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 43 | 439S+ | 0.8 | 283 | Vehicle speed sensor pos | 1587+ | 0.8 | 34B | Trans Shift Display Databus | 232E | 0.8 | 34B | Trans Shifter IGN |
| 44 | 439S- | 0.8 | 283 | Vehicle speed sensor neg | 1587- | 0.8 | 34B | Trans Shift Display Databus | 232D | 0.8 | 34B | Trans Shifter Bat |
| 45 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 46 | | | | Not Assigned | 497D10 | 0.8 | 34B | Auto-Neutral Input | | | | Not Assigned |
| 47 | | | | Not Assigned | 497Y | 0.8 | 34B | Auto-Neutral Return | | | | Not Assigned |
| 48 | | | | Not Assigned | | | | Not Assigned | GNDE | 0.8 | 34B | Trans Shifter GND |
| 49 | | | | Not Assigned | GL1 | 0.8 | 34B | Trans Shift Display Dimmer | | | | Not Assigned |
| 50 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 51 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 52 | | | | Not Assigned | | | | Not Assigned | 497M1 | 0.8 | 34B | Output Speed Sensor + |
| 53 | | | | Not Assigned | 223K+ | 0.8 | 34B | Shifter HIL + | 497M2 | 0.8 | 34B | Output Speed Sensor - |
| 54 | | | | Not Assigned | 223K- | 0.8 | 34B | Shifter HIL - | 497L1 | 0.8 | 34B | Engine Speed Sensor + |
| 55 | | | | Not Assigned | 223DD | 0.8 | 34B | Shift Control GND | 497L2 | 0.8 | 34B | Engine Speed Sensor - |
| 56 | | | | Not Assigned | 223DC | 0.8 | 34B | Shift Control Pwr | 497N1 | 0.8 | 34B | Turbine Speed Sensor + |
| 57 | | | | Not Assigned | 223M | 0.8 | 34B | Trans Chk Ind Lp Sig | 497N2 | 0.8 | 34B | Turbine Speed Sensor - |
| 58 | 97G | 1 | 70B | Binary Sw | 97G | 1 | 70B | Binary Sw | 97G | 1 | 70B | Binary Sw |
| 59 | 338J | 1 | 70B | Binary Sw | 338J | 1 | 70B | Binary Sw | 338J | 1 | 70B | Binary Sw |
| 60 | GNDE | 1 | 70B | Ground | GND | 1 | 70B | Compressor Ground - HVAC | GND | 1 | 70B | Compressor Ground - HVAC |
| 61 | | | | Not Assigned | | | | Not Assigned | 497B | 0.8 | 34B | Reverse Warning |
| 62 | | | | Not Assigned | | | | Not Assigned | 497F | 0.8 | 34B | Neutral Start Enable |
| 63 | | | | Not Assigned | | | | Not Assigned | 531D | 0.8 | 34B | Trans Pressure Drop |
| 64 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 65 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 66 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 67 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 68 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 69 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 70 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 71 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 72 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 73 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 74 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 75 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 76 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |

Pin Connection Reference
See Page 1C-2



Western Star Bodybuilder Book: Revision 3.1

LHD 2014 4700 Options 76 Bulkhead

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Pin
Connection
Reference
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| Plug Cavity | 4700 Chassis Options Connector CHAS_F_H_DASH_CHAS_OPT_1A | | | | | Plug Cavity | 4700 Chassis Options Connector CHAS_F_H_DASH_CHAS_OPT_1A | | | | |
|-------------|--|-------|--------|----------------------------------|---------------|-------------|--|-------|--------|-------------------------------|--------------|
| | Wire # | Gauge | Module | Description | Mating CIR # | | Wire # | Gauge | Module | Description | Mating CIR # |
| 1 | GND | 3 | | GROUND (RESERVED) | | 39 | 377RF+ | 1 | 330 | RIGHT FWD WHEEL SNSR SIG | |
| 2 | | | | Not Assigned | | 40 | 377LF+ | 1 | 330 | LEFT FWD WHEEL SNSR SIG | |
| 3 | | | | Not Assigned | | 41 | 377RR+ | 1 | 330 | RIGHT REAR WHEEL SNSR SIG | |
| 4 | | | | Not Assigned | | 42 | 377LR+ | 1 | 330 | LEFT REAR WHEEL SNSR SIG | |
| 5 | | | | Not Assigned | | 43 | 377RT+ | 1 | 330 | RIGHT REAR/TAG WHEEL SNSR SIG | |
| 6 | | | | Not Assigned | | 44 | 377LT+ | 1 | 330 | LEFT REAR/TAG WHEEL SNSR SIG | |
| 7 | | | | Not Assigned | | 45 | 378TF+ | 1 | 330 | ESC SOLENOID POSITIVE | |
| 8 | | | | Not Assigned | | 46 | 378T+ | 1 | 330 | ATC SOLENOID POSITIVE | |
| 9 | | | | Not Assigned | | 47 | 376A | 0.8 | 330 | YAW RATE MODULE | |
| 10 | | | | Not Assigned | | 48 | GND | 0.8 | 330 | YAW RATE MODULE | |
| 11 | | | | Not Assigned | | 49 | 508E | 0.8 | 330 | YAW RATE MODULE | |
| 12 | | | | Not Assigned | | 50 | 508G | 0.8 | 330 | YAW RATE MODULE | |
| 13 | | | | Not Assigned | | 51 | | | | Not Assigned | |
| 14 | 38L | 0.8 | 353 | BODY BUILDER (LEFT TURN SIGNAL) | | 52 | 378RTO | 1 | 330 | RIGHT REAR/TAG SOL OUTPUT | |
| 15 | 38R | 0.8 | 353 | BODY BUILDER (RIGHT TURN SIGNAL) | | 53 | 378LTO | 1 | 330 | LEFT REAR/TAG SOL OUTPUT | |
| 16 | 23 | 0.8 | 353 | BODY BUILDER (MARKER SIGNAL) | | 54 | 378RTI | 1 | 330 | RIGHT REAR/TAG SOL INPUT | |
| 17 | 46B | 0.8 | 353 | BODY BUILDER (PARK SIGNAL) | | 55 | 378LTI | 1 | 330 | LEFT REAR/TAG SOL INPUT | |
| 18 | 36C | 0.8 | 353 | BODY BUILDER (STOP SIGNAL) | | 56 | 378RFO | 1 | 330 | RIGHT FWD SOL OUTPUT | |
| 19 | 120B | 0.8 | 353 | BODY BUILDER (REVERSE SIGNAL) | | 57 | 378LFO | 1 | 330 | LEFT FWD SOL OUTPUT | |
| 20 | 425D | | 293 | Power Cut-Off SW | G06-83965-000 | 58 | 378RRO | 1 | 330 | RIGHT REAR SOL OUTPUT | |
| 21 | 425E | | 293 | Power Cut-Off SW | G06-83965-000 | 59 | 378LRO | 1 | 330 | LEFT REAR SOL OUTPUT | |
| 22 | 425G | | 293 | Power Cut-Off SW | G06-83965-000 | 60 | 378RFI | 1 | 330 | RIGHT FWD SOL INPUT | |
| 23 | 425F | | 293 | Power Cut-Off SW | G06-83965-000 | 61 | 378LFI | 1 | 330 | LEFT FWD SOL INPUT | |
| 24 | 76 | 1 | 74e | Mirrors | | 62 | 378RRI | 1 | 330 | RIGHT REAR SOL INPUT | |
| 25 | | | | Not Assigned | | 63 | 378LRI | 1 | 330 | LEFT REAR SOL INPUT | |
| 26 | | | | Not Assigned | | 64 | | | | Not Assigned | |
| 27 | 377RF- | 1 | 330 | RIGHT FWD WHEEL SNSR RTN | | 65 | | | | Not Assigned | |
| 28 | 377LF- | 1 | 330 | LEFT FWD WHEEL SNSR RTN | | 66 | | | | Not Assigned | |
| 29 | 377RR- | 1 | 330 | RIGHT REAR WHEEL SNSR RTN | | 67 | | | | Not Assigned | |
| 30 | 377LR- | 1 | 330 | LEFT REAR WHEEL SNSR RTN | | 68 | | | | Not Assigned | |
| 31 | 377RT- | 1 | 330 | RIGHT REAR/TAG WHEEL SNSR RTN | | 69 | | | | Not Assigned | |
| 32 | 377LT- | 1 | 330 | LEFT REAR/TAG WHEEL SNSR RTN | | 70 | | | | Not Assigned | |
| 33 | 378TF- | 1 | 330 | ESC SOLENOID NEGATIVE | | 71 | 274 | 0.8 | 34B | Tcase temp return | |
| 34 | 378T- | 1 | 330 | ATC SOLENOID NEGATIVE | | 72 | 266E | 0.8 | 42Z | Neutral indicator active | |
| 35 | 378RS+ | 1 | 330 | RSC VALVE, POSITIVE | | 73 | 266J | 0.8 | 42Z | PTO engaged active | |
| 36 | 378RS- | 1 | 330 | RSC VALVE, NEGATIVE | | 74 | 266D | 0.8 | 42Z | 2-spd Lo speed engaged active | |
| 37 | | | | Not Assigned | | 75 | 266A | 0.8 | 42Z | T-case engaged active | |
| 38 | | | | Not Assigned | | 76 | GNDE | 0.8 | 42Z | Common return sensor ground | |



LHD 2014 4700 Engine 76 Pin Bulkhead

Cummins ISL

| Plug Cavity | CUMMINS ISL with Manual | | | | CUMMINS ISL with Ultrashift Plus | | | | CUMMINS ISL with Allison | | | |
|-------------|-------------------------|-------|--------|------------------------------|----------------------------------|-------|--------|------------------------------|--------------------------|-------|--------|------------------------------|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off |
| 3 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 4 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 5 | 439A | 1 | 283 | Ignition source from dash | 439A | 1 | 283 | Ignition source from dash | 439A | 1 | 283 | Ignition source from dash |
| 6 | 440B | 0.8 | 283 | Service brake switch | 440B | 0.8 | 283 | Service brake switch | 440B | 0.8 | 283 | Service brake switch |
| 7 | 440J | 0.8 | 129 | Engbrake sw1 | 440J | 0.8 | 129 | Engbrake sw1 | 440J | 0.8 | 129 | Engbrake sw1 |
| 8 | 440K | 0.8 | 129 | Engbrake sw2 | 440K | 0.8 | 129 | Engbrake sw2 | 440K | 0.8 | 129 | Engbrake sw2 |
| 9 | 440F | 0.8 | 149 | Cruise RES/ACC | 440F | 0.8 | 149 | Cruise RES/ACC | 440F | 0.8 | 149 | Cruise RES/ACC |
| 10 | 440E | 0.8 | 149 | Cruise SET/COAST | 440E | 0.8 | 149 | Cruise SET/COAST | 440E | 0.8 | 149 | Cruise SET/COAST |
| 11 | 440D | 0.8 | 149 | Cruise On/Off | 440D | 0.8 | 149 | Cruise On/Off | 440D | 0.8 | 149 | Cruise On/Off |
| 12 | 492H | 0.8 | 28F | MIL lamp | 492H | 0.8 | 28F | MIL lamp | 492H | 0.8 | 28F | MIL lamp |
| 13 | 492J | 0.8 | 28F | DPF lamp | 492J | 0.8 | 28F | DPF lamp | 492J | 0.8 | 28F | DPF lamp |
| 14 | 492L | 0.8 | 28F | Hest lamp | 492L | 0.8 | 28F | Hest lamp | 492L | 0.8 | 28F | Hest lamp |
| 15 | 492K | 0.8 | 28F | regen request switch | 492K | 0.8 | 28F | regen request switch | 492K | 0.8 | 28F | regen request switch |
| 16 | 492M | 0.8 | 28F | regen inhibit request switch | 492M | 0.8 | 28F | regen inhibit request switch | 492M | 0.8 | 28F | regen inhibit request switch |
| 17 | 440G | 1 | 283 | Switch common | 440G | 1 | 283 | Switch common | 440G | 1 | 283 | Switch common |
| 18 | 431C | 0.8 | 132 | Wait to start light | 431C | 0.8 | 132 | Wait to start light | 431C | 0.8 | 132 | Wait to start light |
| 19 | 440Z | 0.8 | 276 | Fan Override Switch | 440Z | 0.8 | 276 | Fan Override Switch | 440Z | 0.8 | 276 | Fan Override Switch |
| 20 | 440S | 0.8 | 283 | stop engine LED | 440S | 0.8 | 283 | stop engine LED | 440S | 0.8 | 283 | stop engine LED |
| 21 | 440A | 0.8 | 283 | check engine light | 440A | 0.8 | 283 | check engine light | 440A | 0.8 | 283 | check engine light |
| 22 | 440P- | 0.8 | 283 | Throttle return1 | 440P- | 0.8 | 283 | Throttle return1 | 440P- | 0.8 | 283 | Throttle return1 |
| 23 | 440T | 0.8 | 283 | Throttle pedal signal 1 | 440T | 0.8 | 283 | Throttle pedal signal 1 | 440T | 0.8 | 283 | Throttle pedal signal 1 |
| 24 | 440P+ | 0.8 | 283 | Throttle power 1 | 440P+ | 0.8 | 283 | Throttle power 1 | 440P+ | 0.8 | 283 | Throttle power 1 |
| 25 | 440P2- | 0.8 | 283 | Throttle return2 | 440P2- | 0.8 | 283 | Throttle return2 | 440P2- | 0.8 | 283 | Throttle return2 |
| 26 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 |
| 27 | 440P2+ | 0.8 | 283 | Throttle power2 | 440P2+ | 0.8 | 283 | Throttle power2 | 440P2+ | 0.8 | 283 | Throttle power2 |
| 28 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 |
| 29 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 |
| 30 | 440C | 0.8 | 149 | Clutch Switch | 440C | 0.8 | 149 | Clutch Switch | 440C | 0.8 | 149 | Clutch Switch |
| 31 | 440X | 0.8 | 283 | Park brake signal | 440X | 0.8 | 283 | Park brake signal | 440X | 0.8 | 283 | Park brake signal |
| 32 | 15 | 1 | 156 | Starter Solenoid | 15 | 1 | 156 | Starter Solenoid | 15 | 1 | 156 | Starter Solenoid |
| 33 | 439U | 0.8 | 148 | REMOTE PTO ON/OFF SIG | 439U | 0.8 | 148 | REMOTE PTO ON/OFF SIG | 439U | 0.8 | 148 | REMOTE PTO ON/OFF SIG |
| 34 | 483R | 0.8 | 148 | MAX OPERATING SPD/GOV | 483R | 0.8 | 148 | MAX OPERATING SPD/GOV | 483R | 0.8 | 148 | MAX OPERATING SPD/GOV |
| 35 | 483E | 0.8 | 148 | TACHOMETER | 483E | 0.8 | 148 | TACHOMETER | 483E | 0.8 | 148 | TACHOMETER |
| 36 | 483N | 0.8 | 148 | REMOTE THROT ON/OFF SIG | 483N | 0.8 | 148 | REMOTE THROT ON/OFF SIG | 483N | 0.8 | 148 | REMOTE THROT ON/OFF SIG |
| 37 | 483C | 0.8 | 148 | REMOTE THROT POSN SIG | 483C | 0.8 | 148 | REMOTE THROT POSN SIG | 483C | 0.8 | 148 | REMOTE THROT POSN SIG |
| 38 | 440P2+ | 0.8 | 148 | REMOTE THROT POWER | 440P2+ | 0.8 | 148 | REMOTE THROT POWER | 440P2+ | 0.8 | 148 | REMOTE THROT POWER |
| 39 | 440P2- | 0.8 | 148 | REMOTE THROT POSN SNSR RTN | 440P2- | 0.8 | 148 | REMOTE THROT POSN SNSR RTN | 440P2- | 0.8 | 148 | REMOTE THROT POSN SNSR RTN |
| 40 | 472Y | 0.8 | 283 | AAT SNSR SIGNAL | 472Y | 0.8 | 283 | AAT SNSR SIGNAL | 472Y | 0.8 | 283 | AAT SNSR SIGNAL |
| 41 | 266D | 0.8 | 376 | T-CASE LOW IND LP SIG | 266D | 0.8 | 376 | T-CASE LOW IND LP SIG | 266D | 0.8 | 376 | T-CASE LOW IND LP SIG |
| 42 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 43 | | | | Not Assigned | 1587+ | 0.8 | 34B | Trans Shift Display Databus | 232E | 0.8 | 34B | Trans Shifter IGN |
| 44 | | | | Not Assigned | 1587- | 0.8 | 34B | Trans Shift Display Databus | 232D | 0.8 | 34B | Trans Shifter Bat |
| 45 | | | | Not Assigned | 497D10 | 0.8 | 34B | Auto-Neutral Input | | | | TRANS RESERVED |
| 46 | | | | Not Assigned | 497Y | 0.8 | 34B | Auto-Neutral Return | | | | TRANS RESERVED |
| 47 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 48 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 49 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 50 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 51 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 52 | | | | Not Assigned | | | | Not Assigned | 497M1 | 0.8 | 34B | Output Speed Sensor + |
| 53 | | | | Not Assigned | 223K+ | 0.8 | 34B | Shifter HIL + | 497M2 | 0.8 | 34B | Output Speed Sensor - |
| 54 | | | | Not Assigned | 223K- | 0.8 | 34B | Shifter HIL - | 497L1 | 0.8 | 34B | Engine Speed Sensor + |
| 55 | | | | Not Assigned | 223DD | 0.8 | 34B | Shift Control GND | 497L2 | 0.8 | 34B | Engine Speed Sensor - |
| 56 | | | | Not Assigned | 223DC | 0.8 | 34B | Shift Control Pwr | 497N1 | 0.8 | 34B | Turbine Speed Sensor + |
| 57 | | | | Not Assigned | | | | Not Assigned | 497N2 | 0.8 | 34B | Turbine Speed Sensor - |
| 58 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 59 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 60 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 61 | | | | Not Assigned | | | | Not Assigned | 497B | 0.8 | 34B | Reverse Warning |
| 62 | | | | Not Assigned | | | | Not Assigned | 497F | 0.8 | 34B | Neutral Start Enable |
| 63 | | | | Not Assigned | | | | Not Assigned | 531D | 0.8 | 34B | Trans Pressure Drop |
| 64 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 65 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 66 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 67 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 68 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 69 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 70 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 71 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 72 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 73 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 74 | | | | Not Assigned | | | | Not Assigned | | | | TRANS RESERVED |
| 75 | | | | Not Assigned | | | | Not Assigned | GNDE | 5 | 2YT | Battery Ground |
| 76 | | | | Not Assigned | | | | Not Assigned | GNDE | 3 | 34B | Battery Positive |

Pin Connection Reference
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LHD '06-'12 48/49/69 Main Chassis Bulkhead

**Pin
Connection
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| JCHA Chassis Plug Pins 1 to 39 | | | | | | Chassis Plug Pins 40 to 76 | | | | | |
|--------------------------------|-----|-------|----------|-------|------------------------------------|----------------------------|-----|-------|----------|-------|------------------------------|
| Wire Code | Mod | Pin # | Pin Size | Gauge | FUNCTION | Wire Code | Mod | Pin # | Pin Size | Gauge | FUNCTION |
| | | 1 | Large | | Not Assigned | AS10B | 329 | 40 | Small | 16 | EXTRA SWITCH #10 |
| | | 2 | Large | | Not Assigned | AS26B | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| | | 3 | Large | | Not Assigned | AS37D | 329 | | Small | 14 | EXTRA SWITCH #1 |
| ES03B | 154 | 4 | Large | 16 | ETHER START | AS02B | 329 | 41 | Small | 16 | EXTRA SWITCH #2 |
| 46A | 288 | 5 | Large | 12 | TRAILER MARKER LIGHTS | AS37E | 329 | | Small | 14 | EXTRA SWITCH #1 |
| 38L | 288 | 6 | Large | 12 | TRAILER LEFT TURN | WB02F | 142 | 42 | Small | 16 | WEBASTO |
| 36B | 288 | 7 | Large | 12 | TRAILER STOP | 38L | 288 | 43 | Small | 16 | LEFT HAND FRONT SIGNAL LIGHT |
| TL05A | 308 | 8 | Large | 12 | TRAILER ACCESSORY POWER | 47G | 288 | 44 | Small | 16 | GROUND |
| | | 9 | Large | | Not Assigned | 94 | 288 | 45 | Small | 14 | AIR DRYER |
| WB01B | 142 | 10 | Large | 16 | WEBASTO RELAY COIL POWER | 24 | 288 | 46 | Small | 16 | HORN |
| HL27B | 312 | 11 | Large | 14 | RIGHT HAND LOW BEAM | IN18H | 87B | 47 | Small | 16 | REAR DIFFERENTIAL LOCK |
| HL28B | 312 | 12 | Large | 14 | LEFT HAND LOW BEAM | IN40B | 847 | 48 | Small | 18 | FUEL GAUGE OPTIONAL |
| | | 13 | Large | | Not Assigned | AS07B | 329 | 49 | Small | 16 | EXTRA SWITCH #7 |
| 200 | 376 | 14 | Small | 16 | PTO CONTROL | AS25B | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| TC13D | 376 | | Small | 16 | TRANSFER CASE ENGAGED | LA01A | 87F | 50 | Small | 16 | LIFT AXLE |
| BL17B | 31J | 15 | Small | 16 | CUSTOMER FURNISHED LAMP 2 | 440P | 148 | 51 | Small | 16 | POWER TAKE OFF |
| AS04B | 329 | 16 | Small | 16 | EXTRA SWITCH #4 | BL29B | 31J | 52 | Small | 16 | CUSTOMER FURNISHED LAMP 5 |
| AS41D | 329 | | Small | 14 | EXTRA SWITCH #3 | AS09B | 329 | 53 | Small | 16 | EXTRA SWITCH #9 |
| 20L | 288 | 17 | Small | 14 | LEFT HAND LOW BEAM | AS26D | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| 27A | 288 | 18 | Small | 14 | DRIVING LIGHTS | AS39D | 329 | | Small | 14 | EXTRA SWITCH #2 |
| AX12A | 45E | 19 | Small | 16 | DIFFERENTIAL LOCK FRONT DRIVE AXLE | AS01B | 329 | 54 | Small | 16 | EXTRA SWITCH #1 |
| 120B | 288 | 20 | Small | 14 | BACKUP SIGNAL | AS39E | 329 | | Small | 14 | EXTRA SWITCH #2 |
| 28F | 288 | 21 | Small | 14 | FOG LIGHTS | 21L | 288 | 55 | Small | 14 | RIGHT LOW BEAM |
| 15E | 148 | 22 | Small | 16 | POWER TAKE OFF REMOTE START | 38R | 288 | 56 | Small | 16 | RIGHT SIGNAL LIGHT FRONT |
| WB05F | 142 | 23 | Small | 16 | WEBASTO | 39R | 288 | 57 | Small | 14 | RIGHT SIGNAL LIGHT REAR |
| AS05B | 329 | 24 | Small | 16 | EXTRA SWITCH #5 | GNDE | 148 | 58 | Small | 16 | POWER TAKE OFF |
| BL19B | 31J | 25 | Small | 16 | CUSTOMER FURNISHED LAMP 3 | | | 59 | Small | 18 | Not Assigned |
| 21H | 288 | 26 | Large | 12 | RIGHT HAND HIGH BEAM | IN68H | 87B | 60 | Small | 16 | CENTER DIFFERENTIAL LOCK |
| AS27B | 329 | 27 | Small | 16 | 3-WAY EXTRA SWITCH | RB06A | 327 | 61 | Small | 14 | ROTATING BEACON |
| BL08B | 31J | 28 | Small | 16 | CUSTOMER FURNISHED LAMP 1 | AS08B | 329 | 62 | Small | 16 | EXTRA SWITCH #8 |
| AS03B | 329 | 29 | Small | 16 | EXTRA SWITCH #3 | AS25D | 329 | | Small | 16 | 3-WAY EXTRA SWITCH |
| AS41E | 329 | | Small | 16 | | BL28B | 31J | 63 | Small | 16 | CUSTOMER FURNISHED LAMP 4 |
| AS27D | 329 | 30 | Small | 16 | 3-WAY EXTRA SWITCH | 20H | 288 | 64 | Large | 12 | LEFT HAND HIGH BEAM |
| 483Z | 148 | 31 | Small | 16 | PTO CONTROL | | | 65 | | | Not Assigned |
| 47 | 288 | 32 | Small | 16 | FUEL LEVEL SIGNAL | HL25B | 312 | 66 | Large | 14 | LEFT HAND HIGH BEAM |
| 39L | 288 | 33 | Small | 14 | LEFT HAND REAR TURN SIGNAL | HL26B | 312 | 67 | Large | 14 | RIGHT HAND HIGH BEAM |
| AS43D | 329 | 34 | Small | 14 | EXTRA SWITCH #4 | FH03C | 220 | 68 | Large | 10 | FUEL HEATER POWER |
| | | | Small | | Not Assigned | | 38R | 288 | 70 | Large | 12 |
| IN17H | 87B | 35 | Small | 16 | FORWARD DIFFERENTIAL LOCK | 23 | 288 | 71 | Large | 12 | PARK LMPs |
| IN70A | 87B | 36 | Small | 16 | SISU INTER AXLE LOCK | 376 | 288 | 72 | Large | 12 | TRAILER ABS POWER |
| AS06B | 329 | 37 | Small | 16 | EXTRA SWITCH #6 | FP01C | 127 | 73 | Large | 16 | WATER IN FUEL SIGNAL |
| AS43E | 329 | | Small | 14 | EXTRA SWITCH #4 | FP02A | 127 | | Large | 14 | FUEL/WATER SEPARATOR POWER |
| IN85C | 864 | 38 | Small | 16 | AUXILIARY TRANSMISSION TEMP | WB04B | 142 | 74 | Large | 16 | WEBASTO PRE HEATER |
| 15E | 148 | 39 | Small | 16 | PTO CONTROL | | | 75 | | | Not Assigned |
| | | | | | | | | 76 | | | Not Assigned |



LHD '06-'12 48/49/69 FNT Wall 76 Pin Bulkhead

**Pin
Connection
Reference
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1C-2**

| Front Wall Plug Pins 1 to 38 | | | | | | Front Wall Plug Pins 39 to 76 | | | | | |
|------------------------------|------|-------|----------|-------|--------------------------|-------------------------------|-----|-------|----------|-------|-----------------------------|
| Wire Code | Mod | Pin # | Pin Size | Gauge | FUNCTION | Wire Code | Mod | Pin # | Pin Size | Gauge | FUNCTION |
| | | 1 | | | Not Assigned | 18 | 321 | 39 | Small | 16 | LOW AIR PR. ALARM |
| | | 2 | | | Not Assigned | HT10C | 703 | 40 | Small | 16 | AC ENG CTRL |
| FH02B | 220 | 3 | Large | 16 | FUEL HTR SW | HT43J | 703 | 41 | Small | 16 | H2O SOL O/P |
| | | 4 | | | Not Assigned | EX7A | 321 | 42 | Small | 14 | EXTERIOR LMPS |
| HT55A | 703 | 5 | Large | 16 | H2O SOL PWR | HT11B | 321 | 43 | Small | 16 | HVAC UNIT |
| | | 6 | | | Not Assigned | GA01J | 321 | 44 | Small | 16 | J1587 POS |
| | | 7 | | | Not Assigned | BL03H | 321 | 45 | Small | 14 | BACKUP |
| AC01E | 321 | 8 | Large | 14 | ACCESSORY | HT43A | 321 | 46 | Small | 16 | HVAC ROTORY |
| HT57A | 723 | | Large | 16 | ACCESSORY POWER FOR HVAC | HT43A | 723 | | Small | 16 | AC LINE |
| RA11C | 321 | 9 | Large | 14 | L SPKR POS | LS01B | 321 | 47 | Small | 16 | LIGHTING |
| RA12C | 321 | 10 | Large | 14 | L SPKR NEG | AC01AB | 157 | 48 | Small | 16 | ACCESSORY |
| HT15A | 723 | 11 | Large | 14 | POWER | ID11A | 156 | 49 | Small | 18 | ECM ANALOG INPUT |
| 483Z | 148 | 12 | Small | 16 | PTO | FC04D | 703 | 50 | Small | 16 | TRINARY RELAY |
| | | 13 | | | Not Assigned | 440 | 152 | 51 | Small | 18 | 5VDC Sensor Pwr |
| BL01K | 321 | 14 | Small | 16 | REVERSE | ST02P | 321 | 52 | Small | 16 | STARTER RELAY |
| IN78A | 321 | 15 | Small | 16 | FUEL LEVEL | BL01L | 321 | 53 | Small | 16 | BACKUP |
| IN85A | 321 | 16 | Small | 16 | AUX TRANS TEMP | | | 54 | Small | 18 | Not Assigned |
| HT53A | 703 | 17 | Small | 16 | GND REF | HT54C | 703 | 55 | Small | 18 | LS PRES INPUT |
| IG14H | 321 | 18 | Small | 16 | IGNITION POWER | HT52A | 703 | 56 | Small | 16 | 5V REV |
| EB07B | 129 | 19 | Small | 18 | BRAKESAVER SOLENOID | J1939+ | 160 | 57 | Small | 18 | J1939 network High |
| EB08B | 129 | 20 | Small | 18 | BRAKESAVER CUTOOUT SOL | J1939- | 160 | 58 | Small | 18 | J1939 Network Low |
| LB01L | 157 | 21 | Small | 18 | STOP ENG LMP | HT44A | 321 | 59 | Small | 18 | HEATER BUS |
| HT45A | 321 | 22 | Small | 18 | HEATER BUS | BL08G | 321 | 60 | Small | 14 | HOOKUP |
| LS10A or LS10B | 321 | 23 | Small | 16 | SLPR LMPS | SP01B | 321 | | Small | 14 | SPARE |
| ST10K | 157 | 24 | Small | 16 | START REQUEST SIGNAL | ID10A | 156 | 61 | Small | 18 | IGNITION |
| WB11F | 689 | 25 | Small | 16 | INTERLOCK | 52M | 353 | 62 | Small | 14 | WRG-BODYBUILDER VEH INTFACE |
| LS09A | 321 | 26 | Large | 16 | SLPR LMPS | 15E | 148 | 63 | Small | 16 | PTO |
| LS09B | 321 | 26 | Large | 16 | SLPR LMPS | | | 64 | | | Not Assigned |
| EBO6B | 129 | 27 | Small | 18 | BRAKESAVER PRES SW | | | 65 | | | Not Assigned |
| GD5DG | 321 | 28 | Small | 16 | GROUND INSTRUMENT | | | 66 | | | Not Assigned |
| HT49B | 703 | 29 | Small | 18 | HS PRES INPUT | FH03A | 220 | 67 | Large | 10 | FUEL HTR PWR |
| VW01C | 321 | 30 | Small | 16 | W/WASHER MOTOR | INC1D | 703 | 68 | Large | 16 | INST COMMON |
| HT13B | 321 | 31 | Small | 16 | AC CLUTCH | PT13D | 372 | 69 | Large | 18 | PTO |
| GA02J | 321 | 32 | Small | 16 | J1587 NEG | | | 70 | | | Not Assigned |
| ML03H | 321 | 33 | Small | 14 | MARKER | | | 71 | | | Not Assigned |
| LB02L | 157 | 34 | Small | 18 | CHK ENG LMP | RA09C | 321 | 72 | Large | 14 | R SPKR NEG |
| ID09A | 156 | 35 | Small | 18 | GND REF | BA22C | 321 | 73 | Large | 14 | LVD SENSE |
| RB08A or RB08B | NONE | 36 | Small | 14 | BEACONS | RA10C | 321 | 74 | Large | 14 | R SPKR POS |
| ST05K | 157 | 37 | Small | 16 | START CIRCUIT | | | 75 | | | Not Assigned |
| IG01AE | 157 | 38 | Small | 16 | IGNITION | | | 76 | | | Not Assigned |



LHD '06-'12 48/49/69 Engine 76 Pin Bulkhead

| Wire Code | Mod | Pin # | Gauge | Wire | FUNCTION | Commodity | DDC | CAT | MBE | DD15 | Wire Code | Mod | Pin # | Gauge | Wire | FUNCTION | Commodity | DDC | CAT | MBE | DD15 | |
|-----------|-----|-------|-------|-------------------|--------------------------------|------------------------------|-----|-----|-----|---------|-----------|-----|-------|-------|-------------------|-------------------------------|------------------------------|---------------------|-----|-----|------|---|
| 1939S+ | 376 | 1 | 16 | TXL | PTO CONTROL - VSS | ACCEL CNTL-HAND/GOV | X | X | X | | E793C | 286 | 18 | 18 | GXL | J1587 DATA | ENGINE | | X | | | |
| 497D3 | 372 | | 16 | TXL | PTO CNTRL,CARB08 | AIR PIPING/CONTROLS-PTO/PUMP | X | | X | X | MBE06C | 286 | | 18 | 18 | TXL | J1587 DATA | ENGINE | X | | X | |
| 497D3 | 372 | | 16 | TXL | PTO CNTRL,ALLISON 4G W/O PB IL | AIR PIPING/CONTROLS-PTO/PUMP | X | X | X | X | Allocated | 286 | 19 | 18 | GXL | REGEN DISABLE SW | ENGINE | | | | | |
| 497D3 | 372 | | 18 | TXL | TRANS TCU INPUT#3; PTO REQUEST | ENGINE | | X | | | 659B | 286 | | 20 | 18 | GXL | STOP ENGINE LMP | ENGINE | | X | | |
| HT02C | 286 | 2 | 16 | GXL | AC CLUTCH | ENGINE | | X | | | L994B | 286 | 21 | 18 | GXL | CHECK ENGINE LMP | ENGINE | | X | | | |
| HT02C | 286 | | 16 | TXL | A/C COMPRESSOR | ENGINE | X | | X | | 200 | 148 | | 22 | 16 | TXL | PTO ACTIVE | ACCEL CNTL-HAND/GOV | | X | | |
| 1939S- | 376 | 3 | 16 | TXL | PTO CONTROL - VSS | ACCEL CNTL-HAND/GOV | X | X | X | | IN94A | 864 | 23 | | 16 | GXL | GAUGE-TEMPERATURE,TRANS | ALLISON TRANS TEMP | X | X | X | X |
| 497C1 | 372 | | 16 | TXL | PTO CNTRL,CARB08 | AIR PIPING/CONTROLS-PTO/PUMP | X | | X | X | BS02B | 286 | | 24 | 18 | GXL | SERVICE BRAKE | ENGINE | | X | | |
| 497C1 | 372 | | 16 | TXL | PTO CNTRL,ALLISON 4G W/O PB IL | AIR PIPING/CONTROLS-PTO/PUMP | X | X | X | X | MBE04B | 286 | 18 | | 18 | TXL | VSS - Vehicle Speed Sensor | ENGINE | X | | X | |
| 497C1 | 372 | | 18 | TXL | TRANS TCU OUTPUT#1; PTO ENABLE | ENGINE | | X | | | K998A | 286 | 25 | 18 | GXL | EXH TMP LAMP | ENGINE | | X | | | |
| 1939S- | 376 | 16 | TXL | PTO CONTROL - VSS | ACCEL CNTL-HAND/GOV | X | X | X | | MBE03B | 286 | 18 | | 18 | TXL | VSS - - Vehicle Speed Sensor | ENGINE | X | | X | | |
| 200E | 372 | 4 | 16 | TXL | PTO CNTRL,CARB08 | AIR PIPING/CONTROLS-PTO/PUMP | X | | X | X | C977B | 286 | 26 | 18 | GXL | CLUTCH SW | ENGINE | | X | | | |
| 200E | 372 | | 16 | TXL | PTO CNTRL,ALLISON 4G W/O PB IL | AIR PIPING/CONTROLS-PTO/PUMP | X | X | X | X | MBE13A | 286 | | 18 | 18 | TXL | CRUISE | ENGINE | X | | X | |
| IN94A | 864 | | 16 | GXL | GAUGE-TEMPERATURE,TRANS | ALLISON TRANS TEMP | X | X | X | X | MBE13D | 286 | 18 | 18 | TXL | CRUISE | ENGINE | X | | X | | |
| IG14D | 286 | 5 | 16 | TXL | IGNITION PWR | ENGINE | X | | X | X | G842A | 286 | 27 | 18 | GXL | MANUAL REGEN LMP | ENGINE | | X | | | |
| J906C | 286 | | 18 | GXL | IGNITION PWR | ENGINE | | X | | | 1939HE | 286 | | 28 | 19 | GXL | J1939 DATA | ENGINE | | X | | |
| 101E | 286 | 6 | 16 | GXL | 12VDC BATTERY | ENGINE | | X | | | P1939AE | 286 | 18 | | 18 | TXL | J1939 DATA | ENGINE | X | | X | |
| MBE10D | 286 | | 14 | TXL | BATT PWR | ENGINE | X | | X | | 1939LE | 286 | 29 | 19 | GXL | J1939 DATA | ENGINE | | X | | | |
| E717B | 286 | 7 | 18 | GXL | RETARDER SOL | ENGINE | | X | | N1939AE | 286 | 18 | | 18 | TXL | J1939 DATA | ENGINE | X | | X | | |
| E716B | 286 | 8 | 18 | GXL | RETARDER SOL | ENGINE | | X | | | 453R | 286 | 30 | 18 | GXL | 5 MIN SDOWN (CAT) | ENGINE | | X | | | |
| C979B | 286 | 9 | 18 | GXL | CRUISE | ENGINE | | X | | ID11B | 156 | 18 | | 18 | TXL | OPT IDLE THERMOSTAT | START CNTRL | X | | | | |
| MBE15B | 286 | 9 | 18 | TXL | CRUISE | ENGINE | X | | X | MBE68A | 162 | 32 | 16 | TXL | IGNITION ENG FEED | ENGINE STOP | X | | X | | | |
| C978B | 286 | 10 | 18 | GXL | CRUISE | ENGINE | | X | | MBE68E | 162 | | 33 | 16 | TXL | IGNITION ENG FEED | ENGINE STOP | X | | X | | |
| MBE11B | 286 | | 18 | TXL | CRUISE | ENGINE | X | | X | | ID13C | 156 | 34 | 18 | TXL | VEH SHUTDOWN | START CNTRL | X | | | | |
| C795B | 286 | 11 | 18 | GXL | CRUISE | ENGINE | | X | | MBE18B | 286 | 16 | | 16 | TXL | AC ENG CNTRL | ENGINE | X | | X | | |
| MBE12B | 286 | | 18 | TXL | CRUISE | ENGINE | X | | X | | 440G** | 148 | 35 | 18 | TXL | REMOTE COMMON FOR INC/DEC | ENGINE | X | | X | X | |
| 1939S+ | 376 | 12 | 16 | TXL | PTO CONTROL - VSS | ACCEL CNTL-HAND/GOV | X | X | X | ID06A | 156 | 18 | | 18 | TXL | OPT IDLE ACTIVE LMP | START CNTRL | X | | | | |
| 200K | 372 | | 16 | TXL | PTO CNTRL,CARB08 | AIR PIPING/CONTROLS-PTO/PUMP | X | | X | X | MBE56D | 148 | | 18 | 18 | TXL | PTO I/P | ACCEL CNTL-HAND/GOV | | | X | |
| 200K | 372 | | 16 | TXL | PTO CNTRL,ALLISON 4G W/O PB IL | AIR PIPING/CONTROLS-PTO/PUMP | X | X | X | X | 439U | 148 | 36 | 16 | TXL | PTO ACTIVE | ACCEL CNTL-HAND/GOV | | X | | | |
| 440X | 162 | 13 | 18 | TXL | PARK BRAKE I/LOCK | STOP CNTRL | | X | | 439U | 372 | 16 | | 16 | TXL | PTO CNTRL,CARB08 | AIR PIPING/CONTROLS-PTO/PUMP | | X | | | |
| ID07B | 156 | | 18 | TXL | TRANS NEU SIGNAL | START CNTRL | X | | | | 440G | 148 | | 18 | 18 | GXL | FAST IDLE SWITCH | ENGINE | | X | | |
| 200E | 372 | 14 | 18 | TXL | PTO SOL SUPPLY, TRANS | ENGINE | | X | | 440G | 148 | 18 | | 18 | GXL | PTO FAST IDLE CNTRL | ACCEL CNTL-HAND/GOV | | X | | | |
| C985B | 286 | | 18 | GXL | ACCEL PEDAL POSN | ENGINE | | X | | 475E | 372 | 18 | | 18 | TXL | ENG IDLER, ENG ECU PTO ON/OFF | ENGINE | | X | | | |
| G843 | 817 | | 16 | GXL | 2 SPEED AXLE | SENDER/DRIVE-SPEED | X | X | X | C999 | 148 | 18 | | 18 | GXL | PTO FAST PREP | ACCEL CNTL-HAND/GOV | | X | | | |
| ID12A | 156 | | 18 | TXL | ENG START ALARM | START CNTRL | X | | | H795S | 148 | 16 | | 16 | GXL | REMOTE THROTTLE CNT | ACCEL CNTL-HAND/GOV | | X | | | |
| MBE07B | 286 | 15 | 18 | TXL | CAN BUS | ENGINE | X | | X | MBE56B | 148 | 18 | | 18 | GXL | PTO PB ENGAGED SIG | ACCEL CNTL-HAND/GOV | | | | X | |
| 200K | 372 | | 18 | TXL | PTO IND LMP #1 SIG | ENGINE | | X | | ID14B | 156 | 37 | | 18 | 18 | TXL | OPT IDLE-PARK BRK | START CNTRL | X | | | |
| C986B | 286 | | 18 | GXL | ACCEL PEDAL POSN | ENGINE | | X | | MBE02B | 286 | | | 18 | 18 | TXL | A/C COMPRESSOR | ENGINE | X | | X | |
| ID05A | 156 | 16 | 18 | TXL | OPT IDLE STARTER | START CNTRL | X | | | G880A | 286 | 38 | 18 | GXL | ATD REGEN LMP | ENGINE | | X | | | | |
| MBE08B | 286 | | 18 | TXL | CAN BUS | ENGINE | X | | X | H795S | 148 | | 16 | 16 | GXL | REMOTE THROTTLE CNT | ACCEL CNTL-HAND/GOV | | X | | | |
| H795D | 286 | 17 | 18 | GXL | ENGINE COMMON | ENGINE | | X | | G841B | 286 | 39 | 18 | GXL | FAN ORIDE | ENGINE | | X | | | | |
| MBE09M | 286 | | 14 | TXL | BATT NEG | ENGINE | X | | X | G843 | 817 | | 40 | 16 | GXL | 2 SPEED AXLE | SENDER/DRIVE-SPEED | X | X | X | | |
| E794C | 286 | 17 | 18 | GXL | J1587 DATA | ENGINE | | X | | | | | | | | | | | | | | |
| MBE05C | 286 | | 18 | TXL | J1587 DATA | ENGINE | X | | X | | | | | | | | | | | | | |

Pin Connection Reference See Page 1C-2



RHD 2011 ADR11 Main Chassis 76 Pin Bulkhead

**Pin
Connection
Reference
See Page
1C-2**

| Plug Cavity | DETROIT HDEP/CUMMINS ISX | | | | Plug Cavity | DETROIT HDEP/CUMMINS ISX | | | |
|-------------|--------------------------|-------|---------|-------------------------------|-------------|--------------------------|-------|---------|------------------------------------|
| | Wire # | Gauge | Module | Description | | Wire # | Gauge | Module | Description |
| 1 | | | | | 39 | 38R* | 2 | 301 | TURN SIG LAMP SPLY,RH trailer |
| 2 | 20L | 3 | 311 | HDLP LOW BEAM LP SPLY,LH | 40 | 376F | 2 | 308 | TRAILER WARNING SIG, FW TO RECP |
| 3 | 23P | 2 | 311 | PARK TO TRAILER (NZ) | 41 | 81C | 1 | 285 | RLY COIL,LP AND GA IGN SPLY,MISC |
| 4 | 23G | 3 | 311 | MARKER/TAIL TRACTOR | 42 | 376N | 0.8 | 330 | HSA SWITCH |
| 5 | 23H | 3 | 311 | MARKER/TAIL TRACTOR | 43 | 399T/254A | 1 | 329/33A | OPTIOINAL WIRING TO BOC |
| 6 | 36 | 2 | 296 | SEP STOP FOR AUSSIE 3-CHAMBER | 44 | 376N* | 0.8 | 330 | HSA LAMP |
| 7 | | | | | 45 | 94 | 2 | 48A | AIR DRYER HTR SPLY |
| 8 | | | | | 46 | 24B | 2 | 264 | HORN SPLY,ELEC |
| 9 | 36B | 3 | 877 | TURN SIG SW STOP LP SPLY | 47 | 376C1 | 0.8 | 330 | Pressure Sensor IGN+ (HSA) |
| 10 | 45A | 3 | 296/330 | CNTR PIN PWR | 48 | J1587+ | 0.8 | 160 | Databus Pos J1587 |
| 11 | 36C | 3 | 296 | STOP TRAILER | 49 | J1587- | 0.8 | 160 | Databus Neg J1587 |
| 12 | 155F | 3 | 308 | LIFT AXLE 3 | 50 | GND | 0.8 | 330 | GND RETURN (HSA) |
| 13 | | | | | 51 | 376D | 2 | 308 | FUSED IGN PWR FOR TRLR RECPT |
| 14 | 399A | | 329 | OPTIOINAL WIRING TO BOC | 52 | 87H | 1 | 87B | INTERAXLE LOCK |
| 15 | 399C | | 329 | OPTIOINAL WIRING TO BOC | 53 | 87B | 1 | 87B | DIFF LOCK - FWD AXLE |
| 16 | 399M | | 329 | OPTIOINAL WIRING TO BOC | 54 | 87C | 1 | 87B | DIFF LOCK - REAR AXLE |
| 17 | 399N | | 329 | OPTIOINAL WIRING TO BOC | 55 | 87D | 1 | 87B | DIFF LOCK - CNTR AXLE |
| 18 | 27A | 2 | 313 | ROADLP SW HDLP SIG | 56 | 23* | 1 | 311 | PARK SIG TO HEADLAMPS |
| 19 | 266A | 0.8 | 376 | two speed transfer case | 57 | 39R | 2 | 877 | STOP/TURN LAMP SPLY,RH rear |
| 20 | 376T | 0.8 | 330 | ABS ECU TRACTION CTRL SW SIG | 58 | 39L | 2 | 877 | STOP/TURN LAMP SPLY,LH rear |
| 21 | 28F | 2 | 313 | FOG LAMP SPLY | 59 | 376S | 1 | 330 | ABS WHEEL SPIN IND LP SIG |
| 22 | 402 BR | 0.8 | 330 | PRESSURE SENSOR SIGNAL (HSA) | 60 | 23D | 2 | 30A | MKR/TAIL RLY COIL INTERRUPT SW SIG |
| 23 | GND | 0.8 | 330 | PRESSURE SENSOR RETURN (HSA) | 61 | | | | |
| 24 | 376R | 0.8 | 330 | ABS RTDR DSBL SIG | 62 | 376L | 1 | 330 | ABS TRACTOR IND LP SIG |
| 25 | 38L* | 2 | 301 | TURN SIG LAMP SPLY,LH trlr | 63 | | | | |
| 26 | 21H | 3 | 311 | HDLP HIGH BEAM SPLY,RH | 64 | 20H | 3 | 311 | HDLP HIGH BEAM SPLY,LH |
| 27 | 320A | 0.8 | 66B | WIPER WASHER FLUID LEVEL | 65 | 376A | 3 | 308 | FUSED BAT PWR FOR TRLR RECPT |
| 28 | 320 | 0.8 | 66B | WIPER WASHER | 66 | 21L | 3 | 311 | HDLP LOW BEAM SPLY,RH |
| 29 | 38R | 1 | 301 | STOP/TURN - TRACTOR RH front | 67 | 36B | 3 | 877 | TRAILER 7-WAY STOP LP SPLY |
| 30 | 120B | 2 | 35H | BACK-UP LAMP SPLY | 68 | 46B | 3 | 30A | MRKR SPLY, TRAILER |
| 31 | J1939-A | 0.8 | 160 | Databus Pos J1939 | 69 | 23 | 2 | 311 | TAIL LP SPLY,TRACTOR |
| 32 | J1939+A | 0.8 | 160 | Databus Neg J1939 | 70 | 376 | 3 | 330 | ABS TRAILER CONSTANT PWR SPLY #1 |
| 33 | 399R | | 329 | OPTIOINAL WIRING TO BOC | 71 | 376C | 2 | 330 | ABS ECU IGN SPLY |
| 34 | 27L* | 2 | 313 | BULL LIGHTS | 72 | 376C4 | 1 | 330 | ABS ECU IGN SPLY |
| 35 | 27L | 2 | 313 | DRIVING LIGHTS - LH | 73 | 73A | | 31J | UTILITY LAMPS TO BOC/EOF |
| 36 | 38L | 1 | 301 | STOP/TURN - TRACTOR LH front | 74 | | | | |
| 37 | 399T | | 329 | OPTIOINAL WIRING TO BOC | 75 | GND | 5 | 280 | MISC GND |
| 38 | 36C | 2 | 877 | STOP TRUCK | 76 | GND | 5 | 280 | MISC GND |



RHD 2011 ADR11 Front Wall 76 Bulkhead

**Pin
Connection
Reference
See Page
1C-2**

| Plug Cavity | DETROIT HDEP/CUMMINS ISX | | | | Plug Cavity | DETROIT HDEP/CUMMINS ISX | | | |
|-------------|--------------------------|-------|--------|---|-------------|--------------------------|-------|---|-------------|
| | Wire # | Gauge | Module | Description | | Wire # | Gauge | Module | Description |
| 1 | GNDE | 10 | 280 | ELECTRONICS GROUND (Maual Trans Only) | 39 | 120 | | Not Assigned | |
| 2 | GNDE | 10 | 280 | ELECTRONICS GROUND (Maual Trans Only) | 40 | 98N | | Not Assigned | |
| 3 | GNDE | 10 | 280 | ELECTRONICS GROUND (Maual Trans Only) | 41 | 41P | | Not Assigned | |
| 4 | | | | Not Assigned | 42 | 46A | 2 | 30A Marker Lamp supply ckt | |
| 5 | | | | Not Assigned | 43 | 95AR- | | Not Assigned | |
| 6 | | | | Not Assigned | 44 | 95AR+ | | Not Assigned | |
| 7 | | | | Not Assigned | 45 | 95LR- | | Not Assigned | |
| 8 | 52K | | | Not Assigned | 46 | 95LR+ | | Not Assigned | |
| 9 | | | | Not Assigned | 47 | | | Not Assigned | |
| 10 | | | | Not Assigned | 48 | 52B | 0.8 | 156 Sleeper-Acc Power (Maual Trans Only) | |
| 11 | | | | Not Assigned | 49 | | | Not Assigned | |
| 12 | | | | Not Assigned | 50 | 320 | 0.8 | 66B WIPER WASHER MOTOR PWR | |
| 13 | | | | Not Assigned | 51 | | | Not Assigned | |
| 14 | 1603 | 0.8 | 160 | 1939+ CAN Network (Maual Trans Only) | 52 | 437A | 0.8 | 81B RX Module Ignition | |
| 15 | 1603 | 0.8 | 160 | 1939- CAN Network (Maual Trans Only) | 53 | GND4 | 0.8 | 81B Rx Module GND | |
| 16 | 440D | 0.8 | 149 | Cruise On/Off (Maual Trans Only) | 54 | 339D+ | 0.8 | 160 RX Private J1587 Bus | |
| 17 | 440E | 0.8 | 149 | Cruise SET/COAST (Maual Trans Only) | 55 | 339D- | 0.8 | 160 RX Private J1587 Bus | |
| 18 | 440F | 0.8 | 149 | Cruise RES/ACC (Maual Trans Only) | 56 | | | Not Assigned | |
| 19 | | | | Not Assigned | 57 | 73 | | Not Assigned | |
| 20 | | | | Not Assigned | 58 | 98N | 0.8 | 70C HVAC-AUX WIRING (Maual Trans Only) | |
| 21 | 440S | 0.8 | 156 | Sleeper-Stop Engine Light (Maual Trans Only) | 59 | 338A+ | 0.8 | 70C HVAC-AUX WIRING (Maual Trans Only) | |
| 22 | | | | Not Assigned | 60 | 338A- | 0.8 | 70C HVAC-AUX WIRING (Maual Trans Only) | |
| 23 | 41A | | | Not Assigned | 61 | | | Not Assigned | |
| 24 | 15* | 0.8 | 156 | Sleeper-Start request (Maual Trans Only) | 62 | | | Not Assigned | |
| 25 | | | | Not Assigned | 63 | | | Not Assigned | |
| 26 | 41A | | | Not Assigned | 64 | | | Not Assigned | |
| 27 | 425G | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 65 | | | Not Assigned | |
| 28 | 425F | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 66 | | | Not Assigned | |
| 29 | 425E | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 67 | | | Not Assigned | |
| 30 | 425D | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 68 | | | Not Assigned | |
| 31 | | | | Not Assigned | 69 | | | Not Assigned | |
| 32 | | | | Not Assigned | 70 | | | Not Assigned | |
| 33 | 46 | | | Not Assigned | 71 | | | Not Assigned | |
| 34 | 440A | 0.8 | 156 | Sleeper-Check Engine Light (Maual Trans Only) | 72 | | | Not Assigned | |
| 35 | J1939-C | 0.8 | 160 | Databus Neg J1939 (Rx Mod) | 73 | | | Not Assigned | |
| 36 | J1939+C | 0.8 | 160 | Databus Pos J1939 (Rx Mod) | 74 | | | Not Assigned | |
| 37 | 52* | 0.8 | 156 | Sleeper-Key Switch Power (Maual Trans Only) | 75 | | | Not Assigned | |
| 38 | 52D | 0.8 | 156 | Sleeper-Ignition Power (Maual Trans Only) | 76 | | | Not Assigned | |



RHD 2011 484969 ADR11 Engine 76 Pin Bulkhead

Detroit HDEP

| Plug Cavity | HDEP with Manual | | | | HDEP with Automated | | | | HDEP with Allison Automatic | | | |
|-------------|------------------|-------|--------|---------------------------|---------------------|-------|--------|--------------------------|-----------------------------|-------|--------|--------------------------|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | | | | Not Assigned | | | | Not Assigned |
| 3 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 4 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 5 | 439A* | 1 | 283 | Ignition source from dash | | | | Not Assigned | | | | Not Assigned |
| 6 | 439B | 2 | 283 | CPC battery power | | | | Not Assigned | | | | Not Assigned |
| 7 | | | | OI reserved | | | | Not Assigned | | | | Not Assigned |
| 8 | | | | OI reserved | | | | Not Assigned | | | | Not Assigned |
| 9 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 10 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 11 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 12 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 13 | | | | OI reserved | | | | Not Assigned | | | | Not Assigned |
| 14 | 439D+ | 0.8 | 283 | Powertrain CAN pos | | | | Not Assigned | | | | Not Assigned |
| 15 | 439D- | 0.8 | 283 | Powertrain CAN neg | | | | Not Assigned | | | | Not Assigned |
| 16 | GNDE | 2 | 283 | CPC battery Ground | | | | Not Assigned | | | | Not Assigned |
| 17 | 440G | 0.8 | 283 | Sensor Ground | | | | Not Assigned | | | | Not Assigned |
| 18 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 19 | 120 | 1 | 35H | Backup Lamp Supply | 120 | 1 | 35H | Backup Lamp Supply | 120 | 1 | 35H | Backup Lamp Supply |
| 20 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 21 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 22 | | | | OI reserved | | | | Not Assigned | | | | Not Assigned |
| 23 | 439S+ | 0.8 | 283 | Vehicle speed sensor pos | | | | Not Assigned | | | | Not Assigned |
| 24 | 439S- | 0.8 | 283 | Vehicle speed sensor neg | | | | Not Assigned | | | | Not Assigned |
| 25 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 26 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 27 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 28 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 |
| 29 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 |
| 30 | | | | Not Assigned | 1587+ | 0.8 | 34B | Shifty gauge serial bus | 232E | 0.8 | 34B | Trans Shifter IGN |
| 31 | | | | Not Assigned | 1587- | 0.8 | 34B | Shifty gauge serial bus | 232D | 0.8 | 34B | Trans Shifter Bat |
| 32 | | | | Not Assigned | | | | Not Assigned | GNDE | 0.8 | 34B | Trans Shifter GND |
| 33 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 34 | 440Y | 0.8 | 276 | AC Hi Press Switch | | | | Not Assigned | | | | Not Assigned |
| 35 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 36 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 37 | 440L | 0.8 | 152 | Low Coolant Level Switch | | | | Not Assigned | | | | Not Assigned |
| 38 | | | | Body builder reserved | | | | Not Assigned | | | | Not Assigned |
| 39 | 439A | 1 | 283 | Ignition | | | | Not Assigned | | | | Not Assigned |
| 40 | 266D | 0.8 | 376 | two speed transfer case | 266D | 0.8 | 376 | two speed transfer case | 266D | 0.8 | 376 | two speed transfer case |
| 41 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 42 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 43 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 44 | 338 | | 703 | reserved HVAC | | | | Not Assigned | | | | Not Assigned |
| 45 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 46 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 47 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 48 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 49 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 50 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 51 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 52 | 15 | 1 | 156 | crank | | | | Not Assigned | | | | Not Assigned |
| 53 | | | | Not Assigned | 223K+ | 0.8 | 34B | Shifter HIL + | 497H | 0.8 | 34B | Trans Direction Signal |
| 54 | | | | Not Assigned | 223K- | 0.8 | 34B | Shifter HIL - | 497Y | 0.8 | 34B | Trans Signal GND Return |
| 55 | | | | Not Assigned | 223DD | 0.8 | 34B | Shift Control GND | 497A | 0.8 | 34B | Check Trans Lamp |
| 56 | | | | Not Assigned | 223DC | 0.8 | 34B | Shift Control Pwr | 497C6 | 0.8 | 34B | Trans Temp Lamp |
| 57 | | | | Not Assigned | 223M | 0.8 | 34B | Check Trans Lamp | 497D10 | 0.8 | 34B | Auto Neutral Return |
| 58 | 97G | | 70B | Reserved HVAC | X | | | Not Assigned | X | | | Not Assigned |
| 59 | 338 | | 70B | Reserved HVAC | X | | | Not Assigned | X | | | Not Assigned |
| 60 | GND | 1 | 70B | Compressor Ground - HVAC | GND | 1 | 70B | Compressor Ground - HVAC | GND | 1 | 70B | Compressor Ground - HVAC |
| 61 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 62 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 63 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 64 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 65 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 66 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 67 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 68 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 69 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 70 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 71 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 72 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 73 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 74 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 75 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 76 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |

Pin Connection Reference See Page 1C-2



RHD 2011 484969 ADR11 Engine 76 Pin Bulkhead

**Cummins
ISL**

| Plug Cavity | ISX with Manual | | | | ISX with Automated | | | | ISX with Allison Automatic | | | |
|-------------|-----------------|-------|--------|------------------------------------|--------------------|-------|--------|--------------------------|----------------------------|-------|--------|--------------------------|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | x | | | Not Assigned | | | | Not Assigned |
| 3 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 4 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 5 | 439A* | 1 | 283 | Ignition source from dash | | | | Not Assigned | | | | Not Assigned |
| 6 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 7 | 440J | 0.8 | 129 | Engbrake sw1 | | | | Not Assigned | | | | Not Assigned |
| 8 | 440K | 0.8 | 129 | Engbrake sw2 | | | | Not Assigned | | | | Not Assigned |
| 9 | 440F | 0.8 | 149 | Cruise RES/ACC | | | | Not Assigned | | | | Not Assigned |
| 10 | 440E | 0.8 | 149 | Cruise SET/COAST | | | | Not Assigned | | | | Not Assigned |
| 11 | 440D | 0.8 | 149 | Cruise On/Off | | | | Not Assigned | | | | Not Assigned |
| 12 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 13 | | | | Not Assigned | x | | | Not Assigned | | | | Not Assigned |
| 14 | | | | Not Assigned | 497D10 | 0.8 | 34B | Auto Neutral Input | | | | Not Assigned |
| 15 | | | | Not Assigned | 497Y | 0.8 | 34B | Auto Neutral Return | | | | Not Assigned |
| 16 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 17 | 440G | 0.8 | 283 | Switch common | | | | Not Assigned | | | | Not Assigned |
| 18 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 19 | 120 | 1 | 35H | Backup Lamp Supply | 120 | 1 | 35H | Backup Lamp Supply | 120 | 1 | 35H | Backup Lamp Supply |
| 20 | 440S | 0.8 | 283 | stop engine LED | | | | Not Assigned | | | | Not Assigned |
| 21 | 440A | 0.8 | 283 | check engine light | | | | Not Assigned | | | | Not Assigned |
| 22 | 440Z | 0.8 | 276 | Fan Override Switch | | | | Not Assigned | | | | Not Assigned |
| 23 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 24 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 25 | 440C | 0.8 | 149 | Clutch Switch | | | | Not Assigned | | | | Not Assigned |
| 26 | 472S | 0.8 | 156 | Idle shutdown relay | | | | Not Assigned | | | | Not Assigned |
| 27 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 28 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 |
| 29 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 |
| 30 | | | | Not Assigned | 1587+ | 0.8 | 34B | Shifty gauge serial bus | 232E | 0.8 | 34B | Trans Shifter IGN |
| 31 | | | | Not Assigned | 1587- | 0.8 | 34B | Shifty gauge serial bus | 232D | 0.8 | 34B | Trans Shifter Bat |
| 32 | | | | Not Assigned | | | | Not Assigned | GNDE | 0.8 | 34B | Trans Shifter GND |
| 33 | J1587+ | 0.8 | 160 | Databus Pos J1587 | J1587+ | 0.8 | 160 | Databus Pos J1587 | J1587+ | 0.8 | 160 | Databus Pos J1587 |
| 34 | J1587- | 0.8 | 160 | Databus Neg J1587 | J1587- | 0.8 | 160 | Databus Neg J1587 | J1587- | 0.8 | 160 | Databus Neg J1587 |
| 35 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 36 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 37 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 38 | | | | Body builder reserved | x | | | Not Assigned | | | | Not Assigned |
| 39 | 439A | 1 | 283 | Ignition | | | | Not Assigned | | | | Not Assigned |
| 40 | 266D | 0.8 | 376 | two speed transfer case | 266D | 0.8 | 376 | two speed transfer case | 266D | 0.8 | 376 | two speed transfer case |
| 41 | 440p2+ | 0.8 | 283 | Throttle power2, from splice pack | | | | Not Assigned | | | | Not Assigned |
| 42 | 440p2- | 0.8 | 283 | Throttle return2, from splice pack | | | | Not Assigned | | | | Not Assigned |
| 43 | 440t2 | 0.8 | 283 | Throttle pedal signal 2 | | | | Not Assigned | | | | Not Assigned |
| 44 | 440p- | 0.8 | 283 | Throttle return1 from cm871 | | | | Not Assigned | | | | Not Assigned |
| 45 | 440T | 0.8 | 283 | Throttle pedal signal 1, cm871 | | | | Not Assigned | | | | Not Assigned |
| 46 | 440p+ | 0.8 | 283 | Throttle power 1from cm871 | | | | Not Assigned | | | | Not Assigned |
| 47 | 440B | 0.8 | 283 | Service brake switch | | | | Not Assigned | | | | Not Assigned |
| 48 | 492J | 0.8 | 28F | DPF lamp | | | | Not Assigned | | | | Not Assigned |
| 49 | 492L | 0.8 | 28F | Hest lamp | | | | Not Assigned | | | | Not Assigned |
| 50 | 492K | 0.8 | 28F | regen request switch | | | | Not Assigned | | | | Not Assigned |
| 51 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 52 | 15 | 1 | 156 | crank | | | | Not Assigned | | | | Not Assigned |
| 53 | | | | Not Assigned | 223K+ | 0.8 | 34B | Shifter HIL + | 497H | 0.8 | 34B | Trans Direction Signal |
| 54 | | | | Not Assigned | 223K- | 0.8 | 34B | Shifter HIL - | 497Y | 0.8 | 34B | Trans Signal GND Return |
| 55 | | | | Not Assigned | 223DD | 0.8 | 34B | Shift Control GND | 497A | 0.8 | 34B | Check Trans Lamp |
| 56 | | | | Not Assigned | 223DC | 0.8 | 34B | Shift Control Pwr | 497C6 | 0.8 | 34B | Trans Temp Lamp |
| 57 | | | | Not Assigned | 223M | 0.8 | 34B | Check Trans Lamp | 497D10 | 0.8 | 34B | Auto Neutral Return |
| 58 | 97G | | 703 | Reserved HVAC | X | | | Not Assigned | X | | | Not Assigned |
| 59 | 338 | | 703 | Reserved HVAC | X | | | Not Assigned | X | | | Not Assigned |
| 60 | GND | 1 | 70B | Compressor Ground - HVAC | GND | 1 | 70B | Compressor Ground - HVAC | GND | 1 | 70B | Compressor Ground - HVAC |
| 61 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 62 | 440S | 0.8 | 283 | stop engine LED (sleeper start) | | | | Not Assigned | | | | Not Assigned |
| 63 | 440A | 0.8 | 283 | check engine light (sleeper start) | | | | Not Assigned | | | | Not Assigned |
| 64 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 65 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 66 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 67 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 68 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 69 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 70 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 71 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 72 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 73 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 74 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 75 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |
| 76 | | | | Not Assigned | | | | Not Assigned | | | | Not Assigned |

Pin
Connection
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RHD 2014 4700 Main Chassis 76 Pin Bulkhead

**Pin
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| Plug Cavity | WST ADR8003 HDEP/ISX 4700 CHAS_F_H_DASH_JCHA_1A | | | | Plug Cavity | WST ADR8003 HDEP/ISX 4700 CHAS_F_H_DASH_JCHA_1A | | | |
|-------------|---|-------|---------|-------------------------------|-------------|---|-------|---------|------------------------------------|
| | Wire # | Gauge | Module | Description | | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | 39 | 38R* | 2 | 301 | TURN SIG LAMP SPLY,RH trailer |
| 2 | 20L | 3 | 311 | HDLP LOW BEAM LP SPLY,LH | 40 | 376F | 2 | 330 | TRAILER WARNING SIG, FW TO RECP |
| 3 | 23P | 2 | 311 | PARK TO TRAILER (NZ) | 41 | 81C | 1 | 285 | RLY COIL,LP AND GA IGN SPLY,MISC |
| 4 | 23G | 3 | 311 | MARKER/TAIL TRACTOR | 42 | 376N | 0.8 | 330 | HSA SWITCH |
| 5 | 23H | 3 | 311 | MARKER/TAIL TRACTOR | 43 | 399T/254A | 1 | 329/33A | OPTIOINAL WIRING TO BOC |
| 6 | 36 | 2 | 296 | SEP STOP FOR AUSSIE 3-CHAMBER | 44 | 376N* | 0.8 | 330 | HSA LAMP |
| 7 | | | | Not Assigned | 45 | 94 | 2 | 48A | AIR DRYER HTR SPLY |
| 8 | | | | Not Assigned | 46 | 24B | 2 | 264 | HORN SPLY,ELEC |
| 9 | 36B | 3 | 877 | TURN SIG SW STOP LP SPLY | 47 | 376C1 | 0.8 | 330 | Pressure Sensor IGN+ (HSA) |
| 10 | 45A | 3 | 296/330 | CNTR PIN PWR | 48 | J1587+ | 0.8 | 160 | Databus Pos J1587 |
| 11 | 36C | 3 | 296 | STOP TRAILER | 49 | J1587- | 0.8 | 160 | Databus Neg J1587 |
| 12 | 155F | 3 | 308 | LIFT AXLE 3 | 50 | GND | 0.8 | 330 | GND RETURN (HSA) |
| 13 | | | | Not Assigned | 51 | 376D | 2 | 330 | FUSED 30A BAT PWR FOR TRLR RECPT |
| 14 | 399A | | 329 | OPTIOINAL WIRING TO BOC | 52 | 87H | 1 | 87B | INTERAXLE LOCK |
| 15 | 399C | | 329 | OPTIOINAL WIRING TO BOC | 53 | 87B | 1 | 87B | DIFF LOCK - FWD AXLE |
| 16 | 399M | | 329 | OPTIOINAL WIRING TO BOC | 54 | 87C | 1 | 87B | DIFF LOCK - REAR AXLE |
| 17 | 399N | | 329 | OPTIOINAL WIRING TO BOC | 55 | 87D | 1 | 87B | DIFF LOCK - CNTR AXLE |
| 18 | 27A | 2 | 313 | ROADLP SW HDLP SIG | 56 | 23* | 1 | 311 | PARK SIG TO HEADLAMPS |
| 19 | 440G | 0.8 | 148 | ENG RPM CONTROL | 57 | 39R | 2 | 877 | STOP/TURN LAMP SPLY,RH rear |
| 20 | 376T | 0.8 | 330 | ABS ECU TRACTION CTRL SW SIG | 58 | 39L | 2 | 877 | STOP/TURN LAMP SPLY,LH rear |
| 21 | 28F | 2 | 313 | FOG LAMP SPLY | 59 | 376S | 1 | 330 | ABS WHEEL SPIN IND LP SIG |
| 22 | 402 BR | 0.8 | 330 | PRESSURE SENSOR SIGNAL (HSA) | 60 | 23D | 2 | 30A | MKR/TAIL RLY COIL INTERRUPT SW SIG |
| 23 | GND | 0.8 | 330 | PRESSURE SENSOR RETURN (HSA) | 61 | 266A | 0.8 | 376 | 2 SPEED TRANSFER CASE |
| 24 | 376R | 0.8 | 330 | ABS RTDR DSBL SIG | 62 | 376L | 1 | 330 | ABS TRACTOR IND LP SIG |
| 25 | 38L* | 2 | 301 | TURN SIG LAMP SPLY,LH trlr | 63 | | | | Not Assigned |
| 26 | 21H | 3 | 311 | HDLP HIGH BEAM SPLY,RH | 64 | 20H | 3 | 311 | HDLP HIGH BEAM SPLY,LH |
| 27 | ??? | 0.8 | 66B | WIPER WASHER -PUMP SUPPLY | 65 | 376A | 3 | 330 | FUSED 5A IGN PWR FOR TRLR RECPT |
| 28 | 320 | 0.8 | 66B | WIPER WASHER | 66 | 21L | 3 | 311 | HDLP LOW BEAM SPLY,RH |
| 29 | 38R | 1 | 301 | STOP/TURN - TRACTOR RH front | 67 | 36B | 3 | 877 | TRAILER 7-WAY STOP LP SPLY |
| 30 | 120B | 2 | 35H | BACK-UP LAMP SPLY | 68 | 46B | 3 | 30A | MRKR SPLY,TRAILER |
| 31 | J1939-A | 0.8 | 160 | Databus Pos J1939 | 69 | 23 | 2 | 311 | TAIL LP SPLY,TRACTOR |
| 32 | J1939+A | 0.8 | 160 | Databus Neg J1939 | 70 | 376 | 3 | 330 | ABS TRAILER CONSTANT PWR SPLY #1 |
| 33 | 399R | | 329 | OPTIOINAL WIRING TO BOC | 71 | 376C | 2 | 330 | ABS ECU IGN SPLY |
| 34 | 27L* | 2 | 313 | BULL LIGHTS | 72 | 376C4 | 1 | 330 | ABS ECU IGN SPLY |
| 35 | 27L | 2 | 313 | DRIVING LIGHTS | 73 | 73A | | 31J | UTILITY LAMPS TO BOC/EOF |
| 37 | 399T | | 329 | OPTIOINAL WIRING TO BOC | 74 | | | | Not Assigned |
| 38 | 36C | 2 | 877 | STOP TRUCK | 75 | GND | 5 | 280 | MISC GND |
| 36 | 38L | 1 | 301 | STOP/TURN - TRACTOR LH front | 76 | GND | 5 | 280 | MISC GND |



RHD 2014 4700 Front Wall 76 Pin Bulkhead

**Pin
Connection
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| Plug Cavity | RHD 4700 Frontwall Connector ISLe5 | | | | Plug Cavity | RHD 4700 Frontwall Connector ISLe5 | | | |
|-------------|------------------------------------|-------|--------|---------------------------------|-------------|------------------------------------|-------|--------|--------------------------------|
| | Wire # | Gauge | Module | Description | | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | 39 | | | | Not Assigned |
| 2 | | | | Not Assigned | 40 | | | | Not Assigned |
| 3 | | | | Not Assigned | 41 | | | | Not Assigned |
| 4 | | | | Not Assigned | 42 | | | | Not Assigned |
| 5 | | | | Not Assigned | 43 | | | | Not Assigned |
| 6 | | | | Not Assigned | 44 | | | | Not Assigned |
| 7 | | | | Not Assigned | 45 | | | | Not Assigned |
| 8 | | | | Not Assigned | 46 | | | | Not Assigned |
| 9 | | | | Not Assigned | 47 | | | | Not Assigned |
| 10 | | | | Not Assigned | 48 | | | | Not Assigned |
| 11 | | | | Not Assigned | 49 | | | | Not Assigned |
| 12 | | | | Not Assigned | 50 | | | | Not Assigned |
| 13 | | | | Not Assigned | 51 | GND | 0.8 | 28F | HEST LAMP RELAY |
| 14 | | | | Not Assigned | 52 | 437A | 0.8 | 81B | RX Module Ignition |
| 15 | | | | Not Assigned | 53 | GND4 | 0.8 | 81B | Rx Module GND |
| 16 | 440D | 0.8 | 149 | Cruise On/Off (manual Trans) | 54 | 339D+ | 0.8 | 160 | RX Private J1587 Bus |
| 17 | 440E | 0.8 | 149 | Cruise SET/COAST (manual Trans) | 55 | 339D- | 0.8 | 160 | RX Private J1587 Bus |
| 18 | 440F | 0.8 | 149 | Cruise RES/ACC (manual Trans) | 56 | | | | Not Assigned |
| 19 | 440C | 0.8 | 149 | Clutch Switch (manual Trans) | 57 | | | | Not Assigned |
| 20 | | | | Not Assigned | 58 | 98N | 0.8 | 70C | HVAC-AUX WIRING (manual Trans) |
| 21 | | | | Not Assigned | 59 | 338A+ | 0.8 | 70C | HVAC-AUX WIRING (manual Trans) |
| 22 | | | | Not Assigned | 60 | 338A- | 0.8 | 70C | HVAC-AUX WIRING (manual Trans) |
| 23 | | | | Not Assigned | 61 | | | | Not Assigned |
| 24 | | | | Not Assigned | 62 | | | | Not Assigned |
| 25 | | | | Not Assigned | 63 | | | | Not Assigned |
| 26 | | | | Not Assigned | 64 | | | | Not Assigned |
| 27 | 425G | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 65 | | | | Not Assigned |
| 28 | 425F | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 66 | | | | Not Assigned |
| 29 | 425E | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 67 | | | | Not Assigned |
| 30 | 425D | 18 | 293 | SGNL FOR PWR ON/OFF CO SW | 68 | | | | Not Assigned |
| 31 | | | | Not Assigned | 69 | | | | Not Assigned |
| 32 | | | | Not Assigned | 70 | | | | Not Assigned |
| 33 | | | | Not Assigned | 71 | | | | Not Assigned |
| 34 | | | | Not Assigned | 72 | | | | Not Assigned |
| 35 | J1939-C | 0.8 | 160 | Databus Neg J1939 (Rx Mod) | 73 | | | | Not Assigned |
| 36 | J1939+C | 0.8 | 160 | Databus Pos J1939 (Rx Mod) | 74 | | | | Not Assigned |
| 37 | | | | Not Assigned | 75 | | | | Not Assigned |
| 38 | | | | Not Assigned | 76 | | | | Not Assigned |



RHD 2014 4700 Engine 76 Pin Bulkhead

**Cummins
ISL**

| Plug Cavity | ISLe5 with Manual | | | | ISLe5 with UltraShift Plus | | | | ISLe5 with Allison | | | |
|-------------|-------------------|-------|--------|---------------------------|----------------------------|-------|--------|---------------------------|--------------------|-------|--------|---------------------------|
| | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description | Wire # | Gauge | Module | Description |
| 1 | | | | Not Assigned | | | | | | | | |
| 2 | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off | 97C | 1 | 70B | A/C Compressor on/off |
| 3 | | | | Not Assigned | | | | | | | | |
| 4 | | | | Not Assigned | | | | | | | | |
| 5 | 439A* | 1 | 156 | Ignition source from dash | 439A* | 1 | 156 | Ignition source from dash | 439A* | 1 | 156 | Ignition source from dash |
| 6 | | | | Not Assigned | | | | | | | | |
| 7 | 440J | 0.8 | 129 | Engbrake sw1 | 440J | 0.8 | 129 | Engbrake sw1 | 440J | 0.8 | 129 | Engbrake sw1 |
| 8 | 440K | 0.8 | 129 | Engbrake sw2 | 440K | 0.8 | 129 | Engbrake sw2 | 440K | 0.8 | 129 | Engbrake sw2 |
| 9 | 440F | 0.8 | 149 | Cruise RES/ACC | 440F | 0.8 | 149 | Cruise RES/ACC | 440F | 0.8 | 149 | Cruise RES/ACC |
| 10 | 440E | 0.8 | 149 | Cruise SET/COAST | 440E | 0.8 | 149 | Cruise SET/COAST | 440E | 0.8 | 149 | Cruise SET/COAST |
| 11 | 440D | 0.8 | 149 | Cruise On/Off | 440D | 0.8 | 149 | Cruise On/Off | 440D | 0.8 | 149 | Cruise On/Off |
| 12 | 492H | 0.8 | 28F | MIL lamp | 492H | 0.8 | 28F | MIL lamp | 492H | 0.8 | 28F | MIL lamp |
| 13 | | | | Not Assigned | | | | | | | | |
| 14 | | | | Not Assigned | | | | | | | | |
| 15 | | | | Not Assigned | | | | | | | | |
| 16 | | | | Not Assigned | | | | | | | | |
| 17 | 440G | 1 | 283 | Switch common | 440G | 1 | 283 | Switch common | 440G | 1 | 283 | Switch common |
| 18 | | | | Not Assigned | | | | | | | | |
| 19 | | | | Not Assigned | | | | | | | | |
| 20 | 440S | 0.8 | 283 | stop engine LED | 440S | 0.8 | 283 | stop engine LED | 440S | 0.8 | 283 | stop engine LED |
| 21 | 440A | 0.8 | 283 | check engine light | 440A | 0.8 | 283 | check engine light | 440A | 0.8 | 283 | check engine light |
| 22 | 440Z | 0.8 | 276 | fan override switch | 440Z | 0.8 | 276 | fan override switch | 440Z | 0.8 | 276 | fan override switch |
| 23 | | | | Not Assigned | | | | | | | | |
| 24 | | | | Not Assigned | | | | | | | | |
| 25 | 440C | 0.8 | 149 | Clutch Switch | 440C | 0.8 | 149 | Clutch Switch | 440C | 0.8 | 149 | Clutch Switch |
| 26 | | | | | | | | | | | | |
| 27 | 440Y | 0.8 | 276 | fan override switch | 440Y | 0.8 | 276 | fan override switch | 440Y | 0.8 | 276 | fan override switch |
| 28 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 | J1939+ | 0.8 | 160 | Databus Pos J1939 |
| 29 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 | J1939- | 0.8 | 160 | Databus Neg J1939 |
| 30 | | | | Not Assigned | | | | | | | | |
| 31 | 440X | 0.8 | 283 | Park brake signal | 440X | 0.8 | 283 | Park brake signal | 440X | 0.8 | 283 | Park brake signal |
| 32 | | | | Not Assigned | | | | | | | | |
| 33 | 200 | 0.8 | 885 | PTO | 200 | 0.8 | 885 | PTO | 200 | 0.8 | 885 | PTO |
| 34 | 200E | 0.8 | 885 | PTO | 200E | 0.8 | 885 | PTO | 200E | 0.8 | 885 | PTO |
| 35 | | | | Not Assigned | | | | | | | | |
| 36 | | | | Not Assigned | | | | | | | | |
| 37 | | | | Not Assigned | | | | | | | | |
| 38 | | | | Not Assigned | | | | | 497C7 | 0.8 | 34C | PTO ENABLE |
| 39 | 439A | 1 | 283 | Ignition | 439A | 1 | 283 | Ignition | 439A | 1 | 283 | Ignition |
| 40 | 266D | 0.8 | 376 | 2 speed transfer case | 266D | 0.8 | 376 | 2 speed transfer case | 266D | 0.8 | 376 | 2 speed transfer case |
| 41 | 440P2+ | 0.8 | 283 | Throttle power2 | 440P2+ | 0.8 | 283 | Throttle power2 | 440P2+ | 0.8 | 283 | Throttle power2 |
| 42 | 440P2- | 0.8 | 283 | Throttle return2 | 440P2- | 0.8 | 283 | Throttle return2 | 440P2- | 0.8 | 283 | Throttle return2 |
| 43 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 | 440T2 | 0.8 | 283 | Throttle pedal signal 2 |
| 44 | 440P- | 0.8 | 283 | Throttle return1 | 440P- | 0.8 | 283 | Throttle return1 | 440P- | 0.8 | 283 | Throttle return1 |
| 45 | 440T | 0.8 | 283 | Throttle pedal signal 1 | 440T | 0.8 | 283 | Throttle pedal signal 1 | 440T | 0.8 | 283 | Throttle pedal signal 1 |
| 46 | 440P+ | 0.8 | 283 | Throttle power 1 | 440P+ | 0.8 | 283 | Throttle power 1 | 440P+ | 0.8 | 283 | Throttle power 1 |
| 47 | 440B | 0.8 | 283 | Service brake switch | 440B | 0.8 | 283 | Service brake switch | 440B | 0.8 | 283 | Service brake switch |
| 48 | | | | Not Assigned | | | | | | | | |
| 49 | | | | Not Assigned | | | | | | | | |
| 50 | | | | Not Assigned | | | | | | | | |
| 51 | | | | Not Assigned | | | | | | | | |
| 52 | 15 | 1 | 156 | crank | 15 | 1 | 156 | crank | 15 | 1 | 156 | crank |
| 53 | | | | Not Assigned | | | | | | | | |
| 54 | | | | Not Assigned | | | | | | | | |
| 55 | | | | Not Assigned | | | | | | | | |
| 56 | | | | Not Assigned | | | | | | | | |
| 57 | | | | Not Assigned | | | | | | | | |
| 58 | 97G | 1 | 70B | BINARY SW SUPPLY | 97G | 1 | 70B | BINARY SW SUPPLY | 97G | 1 | 70B | BINARY SW SUPPLY |
| 59 | 338J | 1 | 70B | BINARY SW RETURN | 338J | 1 | 70B | BINARY SW RETURN | 338J | 1 | 70B | BINARY SW RETURN |
| 60 | GND | 1 | 70B | COMPRESSOR GROUND | GND | 1 | 70B | COMPRESSOR GROUND | GND | 1 | 70B | COMPRESSOR GROUND |
| 61 | | | | Not Assigned | | | | | 497D5 | 0.8 | 34C | PTO ENABLE |
| 62 | | | | Not Assigned | | | | | 497D3 | 0.8 | 34C | PTO ENABLE |
| 63 | | | | Not Assigned | | | | | 497C1 | 0.8 | 34C | PTO ENABLE |
| 64 | | | | Not Assigned | | | | | | | | |
| 65 | | | | Not Assigned | | | | | | | | |
| 66 | | | | Not Assigned | | | | | | | | |
| 67 | | | | Not Assigned | | | | | | | | |
| 68 | | | | Not Assigned | | | | | | | | |
| 69 | | | | Not Assigned | | | | | | | | |
| 70 | | | | Not Assigned | | | | | | | | |
| 71 | | | | Not Assigned | | | | | | | | |
| 72 | | | | Not Assigned | | | | | | | | |
| 73 | | | | Not Assigned | | | | | | | | |
| 74 | | | | Not Assigned | | | | | | | | |
| 75 | | | | Not Assigned | | | | | | | | |
| 76 | | | | Not Assigned | | | | | | | | |

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