



Western Star Bodybuilder Book: Revision 3.1

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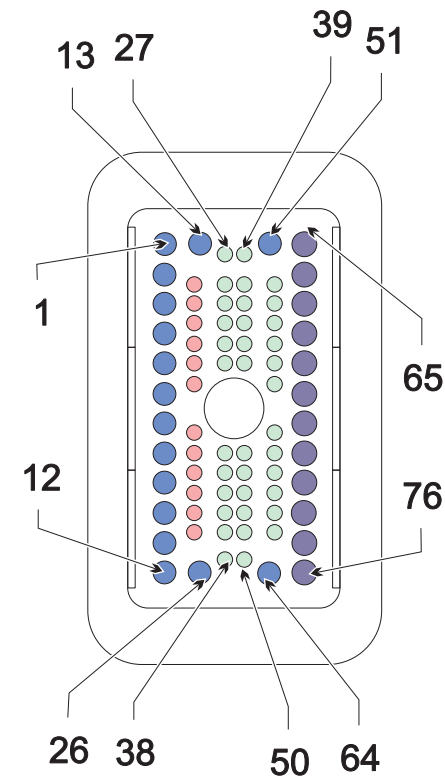
Front Wall Cab Connection Pinouts

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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.

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FNT Wall Pin Out Chart Overview



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

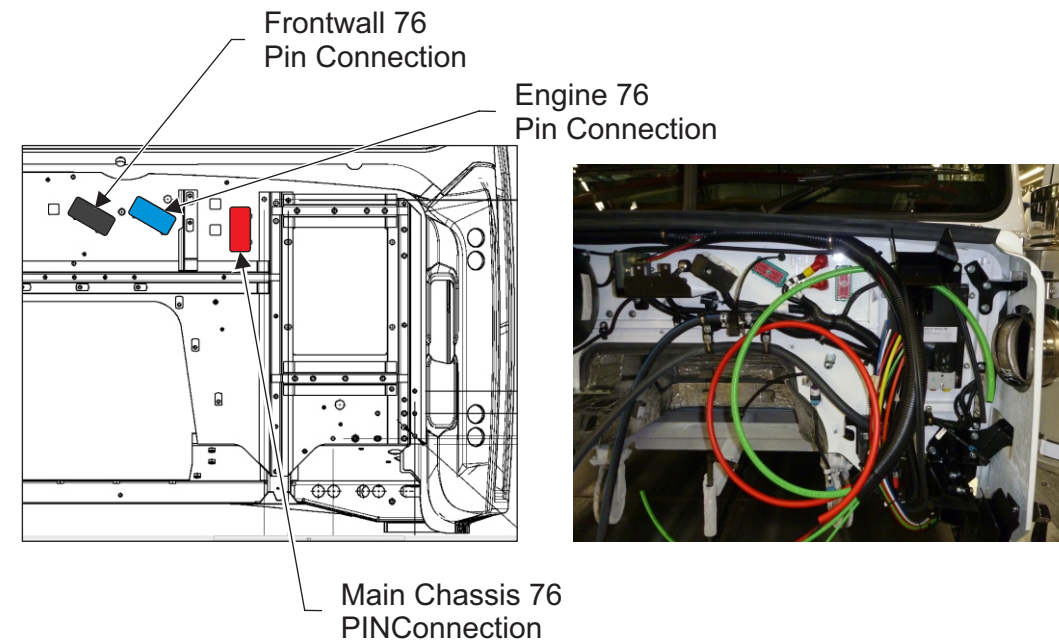
- Large Pin**
- 10-12 Part # 23-13211-432

Female Pin # (Inside Plug)
Small Pin

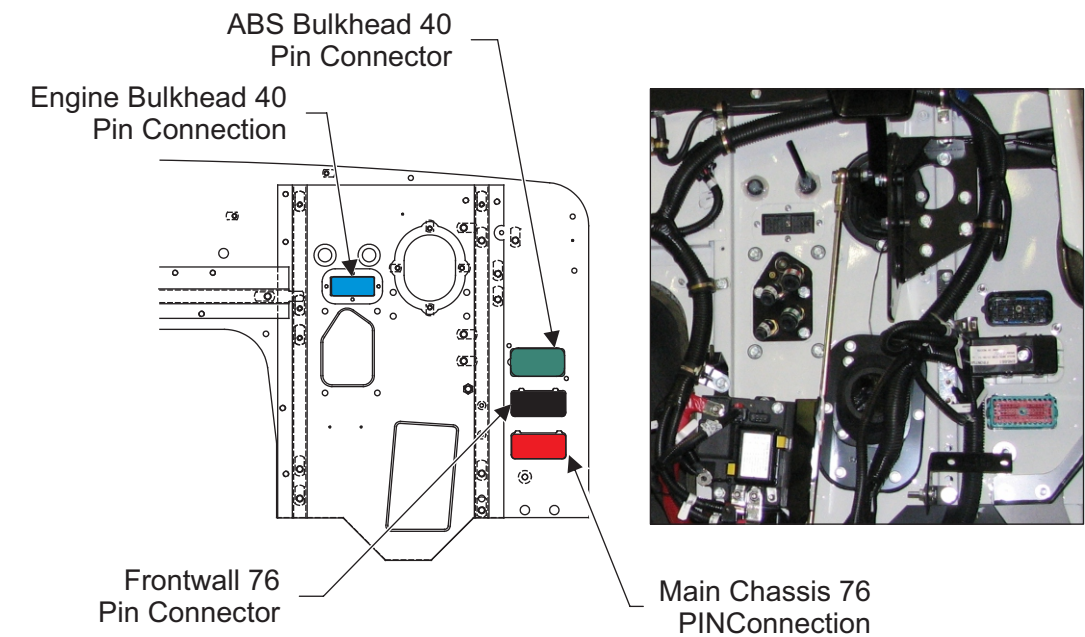
- 18-20 Part # 23-13211-420
- 14-16 Part # 23-13211-421

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

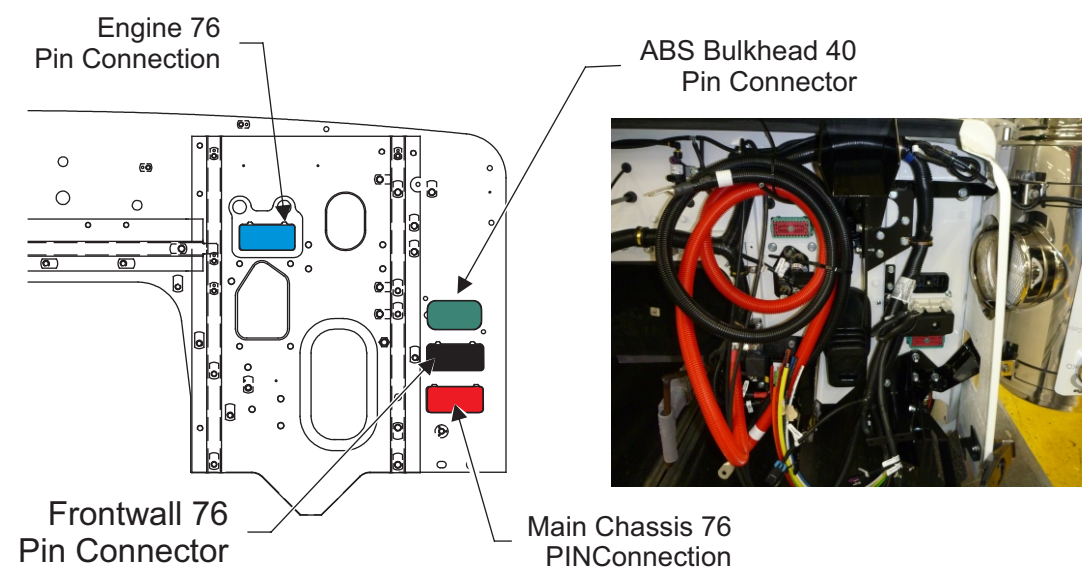
RHD 4700 and 48/48/6900 2011 ADR11



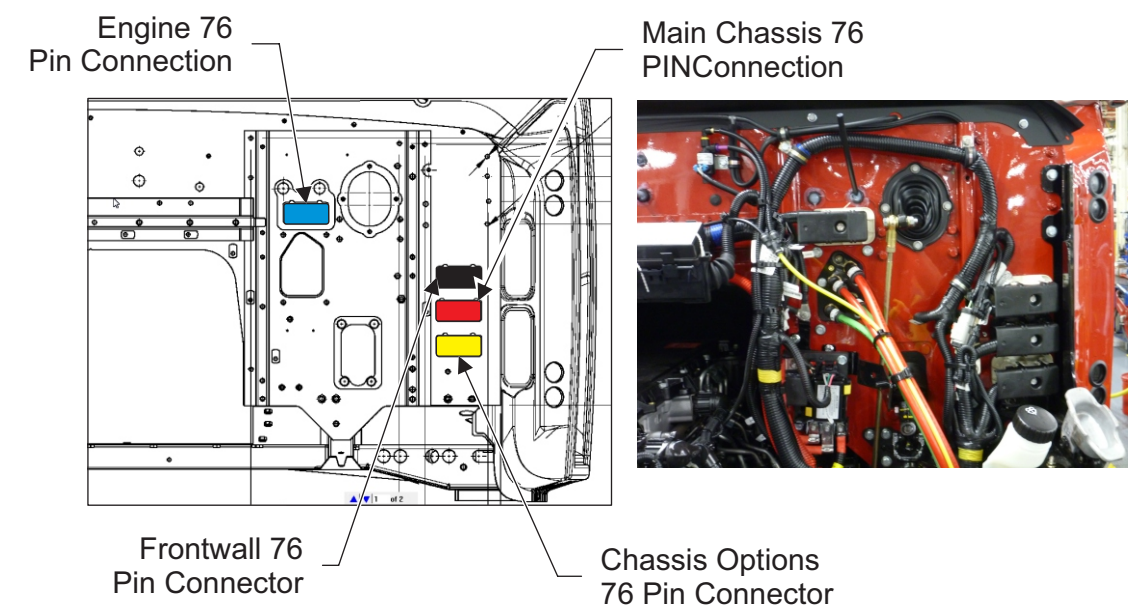
LHD 48/49/6900 2006-2012 LHD



LHD WST 2014 48/49/6900



LHD WST 2014 4700





LHD 2014 48/49/6900 Main Chassis Bulkhead

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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 SUGNAL	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



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

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**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	156	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	140	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	160	J1939 Vehicle Bus Drop to RX Module
20				Not Assigned	58	J1939-	0.8	160	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	156	OI Thermostat Power
24				Not Assigned	62	440L	0.8	152	Low Coolant Level Switch
25				Not Assigned	63	440G	0.8	152	Sensor Common
26				Not Assigned	64				Not Assigned
27				Not Assigned	65	497D7	2	129	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

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LHD 2014 48/49/69 Engine 76 Pin Bulkhead

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Detroit
HDEP

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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				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				TRANS RESERVED
76				Not Assigned				Not Assigned				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

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LHD 2014 4700 Main Chassis 76 Pin Bulkhead

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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	VVW01G	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

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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



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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

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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	



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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

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

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 SUGNAL	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

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

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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	H20 SOL O/P
		4			Not Assigned	EX7A	321	42	Small	14	EXTERIOR LMPS
HT55A	703	5	Large	16	H20 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 CUTOUT 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
WW01C	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
1939S+	376	1	16	TXL	PTO CONTROL - VSS	ACCEL CNTL-HAND/GOV	X	X	X	
497D3	372		16	TXL	PTO CNTRL,CARB08	AIR PIPING/CONTROLS-PTO/PUMP	X		X	X
497D3	372		16	TXL	PTO CNTRL,ALLISON 4G W/O PB IL	AIR PIPING/CONTROLS-PTO/PUMP	X	X	X	X
497D3	372		18	TXL	TRANS TCU INPUT#3; PTO REQUEST	ENGINE		X		
HT02C	286	2	16	GXL	AC CLUTCH	ENGINE		X		
HT02C	286		16	TXL	A/C COMPRESSOR	ENGINE	X		X	
1939S-	376	3	16	TXL	PTO CONTROL - VSS	ACCEL CNTL-HAND/GOV	X	X	X	
497C1	372		16	TXL	PTO CNTRL,CARB08	AIR PIPING/CONTROLS-PTO/PUMP	X		X	X
497C1	372		16	TXL	PTO CNTRL,ALLISON 4G W/O PB IL	AIR PIPING/CONTROLS-PTO/PUMP	X	X	X	X
497C1	372		18	TXL	TRANS TCU OUTPUT#1; PTO ENABLE	ENGINE		X		
1939S-	376	4	16	TXL	PTO CONTROL - VSS	ACCEL CNTL-HAND/GOV	X	X	X	
200E	372		16	TXL	PTO CNTRL,CARB08	AIR PIPING/CONTROLS-PTO/PUMP	X		X	X
200E	372		16	TXL	PTO CNTRL,ALLISON 4G W/O PB IL	AIR PIPING/CONTROLS-PTO/PUMP	X	X	X	X
IN94A	864		16	GXL	GAUGE-TEMPERATURE,TRANS	ALLISON TRANS TEMP	X	X	X	X
IG14D	286	5	16	TXL	IGNITION PWR	ENGINE	X		X	X
J906C	286		18	GXL	IGNITION PWR	ENGINE		X		
101E	286	6	16	GXL	12VDC BATTERY	ENGINE		X		
MBE10D	286		14	TXL	BATT PWR	ENGINE	X		X	
E717B	286	7	18	GXL	RETARDER SOL	ENGINE		X		
E716B	286	8	18	GXL	RETARDER SOL	ENGINE		X		
C979B	286	9	18	GXL	CRUISE	ENGINE		X		
MBE15B	286	9	18	TXL	CRUISE	ENGINE	X		X	
C978B	286	10	18	GXL	CRUISE	ENGINE		X		
MBE11B	286		18	TXL	CRUISE	ENGINE	X		X	
C795B	286	11	18	GXL	CRUISE	ENGINE		X		
MBE12B	286		18	TXL	CRUISE	ENGINE	X		X	
1939S+	376	12	16	TXL	PTO CONTROL - VSS	ACCEL CNTL-HAND/GOV	X	X	X	
200K	372		16	TXL	PTO CNTRL,CARB08	AIR PIPING/CONTROLS-PTO/PUMP	X		X	X
200K	372		16	TXL	PTO CNTRL,ALLISON 4G W/O PB IL	AIR PIPING/CONTROLS-PTO/PUMP	X	X	X	X
440X	162	13	18	TXL	PARK BRAKE I/LOCK	STOP CNTRL		X		
ID07B	156		18	TXL	TRANS NEU SIGNAL	START CNTRL	X			
200E	372	14	18	TXL	PTO SOL SUPPLY, TRANS	ENGINE		X		
C985B	286		18	GXL	ACCEL PEDAL POSN	ENGINE		X		
G843	817		16	GXL	2 SPEED AXLE	SENDER/DRIVE-SPEED	X	X	X	
ID12A	156		18	TXL	ENG START ALARM	START CNTRL	X			
MBE07B	286		18	TXL	CAN BUS	ENGINE	X		X	
200K	372		18	TXL	PTO IND LMP #1 SIG	ENGINE		X		
C986B	286	15	18	GXL	ACCEL PEDAL POSN	ENGINE		X		
ID05A	156		18	TXL	OPT IDLE STARTER	START CNTRL	X			
MBE08B	286		18	TXL	CAN BUS	ENGINE	X		X	
H795D	286	16	18	GXL	ENGINE COMMON	ENGINE		X		
MBE09M	286		14	TXL	BATT NEG	ENGINE	X		X	
E794C	286	17	18	GXL	J1587 DATA	ENGINE		X		
MBE05C	286		18	TXL	J1587 DATA	ENGINE	X		X	

Wire Code	Mod	Pin #	Gauge	Wire	FUNCTION	Commodity	DDC	CAT	MBE	DD15
E793C	286	18	18	GXL	J1587 DATA	ENGINE		X		
MBE06C	286		18	TXL	J1587 DATA	ENGINE	X		X	
Allocated	286	19	18	GXL	REGEN DISABLE SW	ENGINE				
659B	286	20	18	GXL	STOP ENGINE LMP	ENGINE		X		
L994B	286	21	18	GXL	CHECK ENGINE LMP	ENGINE		X		
200	148	22	16	TXL	PTO ACTIVE	ACCEL CNTL-HAND/GOV		X		
IN94A	864		16	GXL	GAUGE-TEMPERATURE,TRANS	ALLISON TRANS TEMP	X	X	X	X
BS02B	286	23	18	GXL	SERVICE BRAKE	ENGINE		X		
MBE04B	286		18	TXL	VSS - Vehicle Speed Sensor	ENGINE	X		X	
K998A	286	24	18	GXL	EXH TMP LAMP	ENGINE		X		
MBE03B	286		18	TXL	VSS - - Vehicle Speed Sensor	ENGINE	X		X	
C977B	286	25	18	GXL	CLUTCH SW	ENGINE		X		
MBE13A	286		18	TXL	CRUISE	ENGINE	X		X	
MBE13D	286	26	18	TXL	CRUISE	ENGINE	X		X	
G842A	286	27	18	GXL	MANUAL REGEN LMP	ENGINE		X		
1939HE	286	28	19	GXL	J1939 DATA	ENGINE		X		
P1939AE	286		18	TXL	J1939 DATA	ENGINE	X		X	
1939LE	286	29	19	GXL	J1939 DATA	ENGINE		X		
N1939AE	286		18	TXL	J1939 DATA	ENGINE	X		X	
453R	286	30	18	GXL	5 MIN SDOWN (CAT)	ENGINE		X		
ID11B	156	31	18	TXL	OPT IDLE THERMOSTAT	START CNTRL	X			
MBE68A	162	32	16	TXL	IGNITION ENG FEED	ENGINE STOP	X		X	
MBE68E	162	33	16	TXL	IGNITION ENG FEED	ENGINE STOP	X		X	
ID13C	156	34	18	TXL	VEH SHUTDOWN	START CNTRL	X			
MBE18B	286		16	TXL	AC ENG CNTRL	ENGINE	X		X	
440G**	148	35	18	TXL	REMOTE COMMON FOR INC/DEC	ENGINE	X		X	X
ID06A	156		18	TXL	OPT IDLE ACTIVE LMP	START CNTRL	X			
MBE56D	148		18	TXL	PTO I/P	ACCEL CNTL-HAND/GOV			X	
439U	148	36	16	TXL	PTO ACTIVE	ACCEL CNTL-HAND/GOV		X		
439U	372		16	TXL	PTO CNTRL,CARB08	AIR PIPING/CONTROLS-PTO/PUMP		X		
440G	148		18	GXL	FAST IDLE SWITCH	ENGINE		X		
440G	148		18	GXL	PTO FAST IDLE CNTRL	ACCEL CNTL-HAND/GOV		X		
475E	372		18	TXL	ENG IDLER, ENG ECU PTO ON/OFF	ENGINE		X		
C999	148		18	GXL	PTO FAST PREP	ACCEL CNTL-HAND/GOV		X		
H795S	148		16	GXL	REMOTE THROTTLE CNT	ACCEL CNTL-HAND/GOV		X		
MBE56B	148		18	GXL	PTO PB ENGAGED SIG	ACCEL CNTL-HAND/GOV			X	
ID14B	156	37	18	TXL	OPT IDLE-PARK BRK	START CNTRL	X			
MBE02B	286		18	TXL	A/C COMPRESSOR	ENGINE	X		X	
G880A	286	38	18	GXL	ATD REGEN LMP	ENGINE		X		
H795S	148		16	GXL	REMOTE THROTTLE CNT	ACCEL CNTL-HAND/GOV		X		
G841B	286	39	18	GXL	FAN ORIDE	ENGINE		X		
G843	817	40	16	GXL	2 SPEED AXLE	SENDER/DRIVE-SPEED	X	X	X	

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RHD 2011 ADR11 Main Chassis 76 Pin Bulkhead

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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



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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



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1C

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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

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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

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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



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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



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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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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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