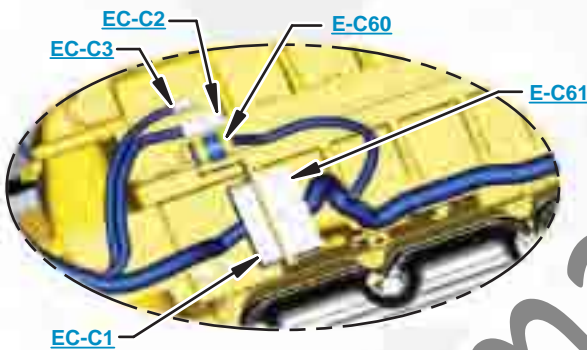


This document is best viewed at a screen resolution of 1024 X 768.

To set your screen resolution do the following:
RIGHT CLICK on the **DESKTOP**.
 Select **PROPERTIES**.
CLICK the **SETTINGS TAB**.
MOVE THE SLIDER under **SCREEN RESOLUTION** until it shows **1024 X 768**.
CLICK OK to apply the resolution.

The Bookmarks panel will allow you to quickly navigate to points of interest.



Click on any text that is BLUE and underlined. These are hyperlinks that can be used to navigate the schematic and machine views.

VIEW ALL CALLOUTS

When only one callout is showing on a machine view this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

HOTKEYS (Keyboard Shortcuts)		
	FUNCTION	KEYS
	Zoom In	"CTRL" / "+"
	Zoom Out	"CTRL" / "-"
	Fit to Page	"CTRL" / "0" (zero)
	Hand Tool	"SPACEBAR" (hold down)
	Find	"CTRL" / "F"



Schematic

769D Off-Highway Truck
and 771D Quarry Truck
Electrical System

769D:
BBB1-221

771D:
BCA1-172

SchematicCat.com

COMPONENT LOCATION

Page 1 of 2



Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
Alarm - Backup	C-15	12	Port - Payload Download	I-5	A
Alternator	B-8	2	Quick Oil Evac	A-6	15
Antenna	I-11	38	Radio - AM/FM	E-6	A
Battery	A-7	3	Receptacle - Aux Start	A-8	17
Beacon	C-10	B	Relay - Backup	F-15	D6
Breaker - A/C	H-9	B	Relay - Headlamp	F-9	D14
Breaker - Alternator	H-9	B	Relay - Hi Beam	G-15	D14
Breaker - Dome Lamp	G-8	B	Relay - Main Power	F-9	13
Breaker - Hdlamp	H-9	B	Relay - Prelube	A-7	16
Breaker - Key Switch	H-8	B	Relay - Prelube	F-14	D6
Breaker - Power Window	H-9	B	Relay - ST AID Hold	G-14	D14
Breaker - Spare	H-8	B	Relay - ST AID ON	G-15	D14
Breaker - Suppl Ster	H-9	B	Relay - Start	A-9	17
Breaker - Turn Signal	H-8	B	Relay - Stop Lamp	F-10	D14
Bus Bar	B-8	15	Relay - Suppl Steering	B-7	17
Bus Bar	A-7	15	Relay - Suppl Steering	F-10	17
Bus Bar	A-6	15	Relay - Wiper Delay	G-15	17
Cigar Lighter	G-2	A	Resistor - Blower Motor Dropping	E-5	A
Connector - Serv Tool	I-8	A	Resistor - Start AID	H-14	D15
Control - EMS II	G-2	8	Sender - Fuel Level	B-8	21
Control - Integrated Braking Control	F-13	8	Sensor - BK Air Pressure	I-13	D9
Control - TPMS	D-15	D5	Sensor - Body Up	C-15	25
Control - XMSN / Chassis	D-12	D5	Sensor - Brake Oil Temp	B-8	26
Converter - 24V / 12V	I-12	D	Sensor - Engine Speed	B-7	24
Engine ECM	A-2	8	Sensor - Hoist Lever Position	G-8	38
Fuse - Air Dryer	H-9	B	Sensor - LH Front Strut Pressure	E-1	28
Fuse - Bkup Alarm	H-10	B	Sensor - LH Rear Strut Pressure	C-15	29
Fuse - Brake Cont	H-9	B	Sensor - LH Wheel Speed	A-15	33
Fuse - Cigar Lighter	H-9	B	Sensor - RH Front Strut Pressure	E-1	30
Fuse - Eng PreLube	H-10	B	Sensor - RH Rear Strut Pressure	B-15	31
Fuse - Gage Lamp	H-9	B	Sensor - RH Turbo Inlet Press	B-7	30
Fuse - Monitor System	H-10	B	Sensor - RH Wheel Speed	A-15	34
Fuse - Payload	H-10	B	Sensor - Shift Lever Position	G-8	38
Fuse - PWR Conv	H-9	B	Sensor - T/C Temp	B-7	32
Fuse - Spare	H-10	B	Sensor - THRT Position	D-5	C
Fuse - Start AID	H-10	B	Sensor - XMSN Speed (Hall Effect)	C-13	22
Fuse - Wiper	H-10	B	Solenoid - A/C Clutch	C-7	2
Fuse - XMSN	H-9	B	Solenoid - ARC Cont	I-2	17
Ground - Cab	D-11	17	Solenoid - ARC Supply	I-1	17
Ground - Engine	B-6	27	Solenoid - Cylinder Head#1,#3,#5,#7	C-2	26
Ground - Engine	A-2	15	Solenoid - Cylinder Head#2,#4,#6,#8	B-2	26
Ground - Frame	C-11	17	Solenoid - Down Shift	C-13	32

Machine locations are repeated for components located close together.

A = Located inside of cab.

B = Located inside of right console.

C = Located inside of left console.

D = Located around relay panel.

COMPONENT LOCATION

Page 2 of 2



Component	Schematic Location	Machine Location	Component	Schematic Location	Machine Location
Ground - Frame	B-10	28	Solenoid - Exhaust Diverter	B-11	48
Ground - Frame	A-5	15	Solenoid - Horn Air	G-13	7
Ground - Rear Cab Boss	E-15	D	Solenoid - Lockup Clutch	C-13	18
Ground - Rear Cab Boss	F-11	17	Solenoid - Lower	C-11	32
Lamp - Body Up IND	F-2	A	Solenoid - Raise	C-11	32
Lamp - Dome	E-6	C	Solenoid - Start Aid	B-6	37
Lamp - EMS II Action	E-2	A	Solenoid - TCS 4 way	A-14	47
Lamp - GM TPMS	I-11	10	Solenoid - TCS Proportional	A-14	47
Lamp - High Beam IND	F-2	A	Solenoid - Up Shift	C-13	32
Lamp - LH Backlighting	E-2	A	Speaker - LH	E-6	A
Lamp - LH Backup	B-15	12	Speaker - RH	E-7	A
Lamp - LH High Beam Headlamp	F-1	38	Suppressor - Arc	G-7	28
Lamp - LH Park/Turn	F-1	38	Suppressor - Horn Sol	G-13	7
Lamp - LH RR Park Turn	C-15	12	Suppressor - Key Switch ARC	E-5	A
Lamp - LH Stop Tail	C-15	12	Suppressor - Stop Lamp	F-9	D
Lamp - LH Turn IND	F-2	A	Switch - A/C Refrigerant Pressure	C-8	2
Lamp - Park/Turn	E-1	A	Switch - A/C Thermostat	F-5	C
Lamp - RD TPMS	I-11	10	Switch - Air Dryer	B-8	4
Lamp - Retarder	F-2	A	Switch - ARC Pressure	I-1	28
Lamp - RH Backlighting	E-2	A	Switch - Auto Retarder	E-4	38
Lamp - RH Backup	B-15	12	Switch - Blower	G-3	A
Lamp - RH GN TPMS	D-1	A	Switch - Brake Over stroke	B-8	39
Lamp - RH High Beam Headlamp	F-1	A	Switch - CAT Monitoring System	H-11	D
Lamp - RH Low Beam Headlamp	E-1	A	Switch - CAT Monitoring System Clear	H-11	D
Lamp - RH RD TPMS	D-1	12	Switch - Coolant Flow	C-3	26
Lamp - RH RR Park Turn	B-15	12	Switch - Disconnect	A-6	40
Lamp - RH Stop Tail	B-15	A	Switch - Door	E-7	41
Lamp - RH Turn IND	E-2	A	Switch - EMS II Mode	E-2	A
Lamp - Shift Lever Backlighting	G-6	A	Switch - EXH Diverter	F-6	20
Lamp - Suppl Steering	F-2	A	Switch - Ground Level Shutdown	A-5	46
Lamp - TCS Activated	F-2	A	Switch - Hazard	F-6	A
Lamp - XMSN Rev IND	F-2	A	Switch - Headlamp	E-5	C
Module - Speedo/Tech	I-3	A	Switch - Horn	H-5	A
Module - Dimmer	I-15	D8	Switch - Key Start	G-2	A
Module - Quad Gage	H-3	A	Switch - Noise Reduction	D-3	A
Module - Wiper Delay	I-15	A	Switch - Power Window	I-10	A
Monitor - Action Alarm	E-7	C	Switch - Retard BK Pressure	H-1	C
Monitor - TPMS Operator	G-7	A	Switch - SEC/ ParkBK Pressure	I-13	9
Motor - A/C Blower	E-5	A	Switch - Service Brake Pressure	I-14	D9
Motor - LH Window	I-10	A	Switch - Steering Pressure	B-8	4
Motor - Prelube	A-6	15	Switch - Stop Lamp	H-14	D9
Motor - Starter	A-8	17	Switch - Suppl Steering	D-2	A
Motor - Supplemental Steering	A-7	15	Switch - TCS Test	E-3	A
Motor - Supplemental Steering	A-7	15	Switch - Transmission Gear	C-13	35
Motor - Windshield Washer	B-10	38	Switch - Turn Sig/ Wiper/Washer	H-4	A
Motor - Wiper	I-5	38	Switch - XMSN Filter Pressure	C-8	28
Outlet 12V Power	H-8	A	Valve - Rail Pressure	C-3	26

Machine locations are repeated for components located close together.

A = Located inside of cab.

B = Located inside of right console.

C = Located inside of left console.

D = Located around relay panel.

CONNECTOR LOCATION



Connector Number	Schematic Location	Machine Location
CONN 1	E-15	6
CONN 2	G-14	53
CONN 3	C-14	12
CONN 4	B-14	12
CONN 5	A-13	35
CONN 6	B-13	35
CONN 7	B-13	35
CONN 8	C-13	32
CONN 9	G-13	7
CONN 10	I-12	14
CONN 11	I-12	14
CONN 12	D-12	49
CONN 13	C-11	4
CONN 14	D-11	49
CONN 15	D-11	49
CONN 16	E-11	44
CONN 17	G-11	14
CONN 18	H-11	54
CONN 19	H-11	54
CONN 20	H-11	6
CONN 21	D-10	5
CONN 22	C-10	28
CONN 23	E-9	17
CONN 24	D-9	49
CONN 25	E-9	44
CONN 26	I-8	55
CONN 27	D-8	49
CONN 28	D-8	49
CONN 29	A-8	17
CONN 30	B-8	48
CONN 31	B-7	2
CONN 32	C-7	28
CONN 33	C-7	28
CONN 34	C-7	28
CONN 35	C-7	28
CONN 36	C-7	28
CONN 37	G-6	54
CONN 38	G-6	54
CONN 39	D-6	49
CONN 40	B-5	17
CONN 41	C-5	26
CONN 42	D-5	A
CONN 43	F-5	A
CONN 44	I-5	55
CONN 45	B-3	26
CONN 46	D-3	26
CONN 47	G-3	A
CONN 48	H-3	D
CONN 49	F-2	52
CONN 50	C-2	50
CONN 51	C-2	50
CONN 52	B-2	51
CONN 53	B-2	51
CONN 54	H-4	44
CONN 55	F-4	56

The connectors shown in this chart are for harness to harness connectors.

Connectors that join a harness to a component are generally located at or near the component. See the Component Location Chart.



Component Identifiers (CID¹) Module Identifier (MID²) Caterpillar Transmission /Chassis Control System (MID No. 027)	
CID	Component
0168	Electrical System
0190	Speed Sensor (Engine)
0248	CAT Data Link
0269	Sensor Power Supply
0420	Relay (Secondary Steering)
0444	Start Relay
0562	Relay (Secondary Steering)
0590	Electronic Control Module (English)
0627	Brake Switch (Parking)
0700	Sensor (Transmission Gear)
0701	Speed Sensor (Transmission Output)
0702	Position Sensor (Shift Lever)
0704	Pressure Switch (Service Brake)
0706	Electronic Control (Body Up Switch)
0707	Solenoid Valve (Upshift)
0708	Solenoid Valve (Downshift)
0709	Solenoid Valve (Lockup Clutch)
0718	Transmission System
0724	Solenoid Valve (Body Raise)
0725	Solenoid Valve (Body Lower)
0773	Rotary Position Sensor (Hoist Lever)
0967	Machine Application
1236	Lamp (Body Up Indicator)
1326	Location Code
1394	Solenoid Valve (Exhaust Diverter)
Caterpillar Monitoring Module (MID No. 030)	
CID	Component
0168	Electrical System Voltage
0254	Payload Electronic Control Module
0350	Lift Linkage Position Sensor
0364	Head End Lift Cylinder Pressure Sensor
0769	Rod End Lift Cylinder Pressure Sensor
0817	Internal Backup Battery
0820	Keypad Data Link
0826	Torque Converter Oil Temperature Sensor

Engine Electronic Control Module (MID No. 036)	
CID	Component
0070	Parking Brake Switch
0149	Ride Control Solenoid 2
0168	Electrical System Voltage
0190	Engine Speed Sensor
0248	CAT Data Link
0356	Tilt Dump Solenoid 1
0363	Ride Control Solenoid 1
0367	Ride Control Switch
0368	Transmission Auto/Manual Switch
0596	Implement ECM
0621	Downshift Switch
0622	Upshift Switch
0623	Directional Switch
0631	Transmission Clutch 1 Solenoid
0632	Transmission Clutch 2 Solenoid
0633	Transmission Clutch 3 Solenoid
0634	Transmission Clutch 4 Solenoid
0635	Transmission Clutch 5 Solenoid
0636	Transmission Clutch 6 Solenoid
0638	Starter Solenoid
0650	Harness Code
0671	Transmission Output Speed Sensor
0687	Options ID Code
1521	Part-Throttle Auto shift Selector Switch
Brake Electronic Control System (MID No. 116)	
CID	Component
0084	Speed Sensor (Ground)
0091	Position Sensor (Throttle)
0168	Electrical System Voltage
0190	Speed Sensor (Engine)
0248	CAT Data Link
0269	Sensor Power Supply
0627	Pressure Switch (Service Brake)
0689	Solenoid Valve (Left Rear Traction Control)
0690	Solenoid Valve (Right Rear Traction Control)
0700	Position Sensor (Transmission Gear)
0701	Speed Sensor (Transmission Output)
0702	Position Sensor (Transmission Shift Lever)
0704	Pressure Switch (Service Brake)
0710	Solenoid Valve (Auto Retarder) (Supply)
0711	Solenoid Valve (Auto Retarder Control)
0712	Indicator Lamp (Retarder)
0713	Rocker Switch (Auto Retarder)
0714	Pressure Switch (Auto Retarder)
0715	Pressure Switch (Retarder)
0718	Transmission System
0719	Proportional Solenoid Valve (Traction Control)
0966	Indicator Lamp (Traction Control)
0967	Machine Application
1225	Pressure Sensor (Left Parking Brake Oil)
1226	Pressure Sensor (Right Parking Brake Oil)
1326	Incorrect Location Code

¹ The CID is a diagnostic code that indicates which component is faulty.

² The MID is a diagnostic code that indicates which electronic control module diagnosed the fault.



Failure Mode Identifiers (FMI) ¹	
FMI No.	Failure Description
0	Data valid but above normal operational range.
1	Data valid but below normal operational range.
2	Data erratic, intermittent, or incorrect.
3	Voltage above normal or shorted high.
4	Voltage below normal or shorted low.
5	Current below normal or open circuit.
6	Current above normal or grounded circuit.
7	Mechanical system not responding properly.
8	Abnormal frequency, pulse width, or period.
9	Abnormal update.
10	Abnormal rate of change.
11	Failure mode not identifiable.
12	Bad device or component.
13	Out of calibration.
14	Parameter failures.
15	Parameter failures.
16	Parameter not available.
17	Module not responding.
18	Sensor supply fault.
19	Condition not met.
20	Parameter failures.

¹The FMI is a diagnostic code that indicates what type of failure has occurred.

Machine Codes	
Machine	Code
769D Tier II	54
771D Tier II	53

Monitoring System Service Modes	
Service Mode	Number
Operator Mode Sequence	0
Harness Code	1
Numeric Readout	2
Service	3
Digital Tattletale	4
Units	5
Permanent Load Count	6
Calibration (Transmission Control)	7
Monitoring System Operator Modes	
Operator Mode	Number
Service Meter	1
Odometer	2
Tachometer	3
Resettable Load Counter	4
Diagnostic Scrolling	5

SPECIFICATIONS AND RELATED MANUALS



Resistor, Sender and Solenoid Specifications

Part No.	Component Description		Resistance (Ohms) ¹
3E1906	Solenoid:	A/C Clutch	17.6 ± 0.6
3E6333	Solenoid:	Start Aid	6
3E8691	Solenoid:	Arc Cont'	31 ± 3
9G9988	Solenoid:	TCS 4 Way Up Shift	24.9 ± 0.4
3T0062	Solenoid:	Proportional	16
7T9074	Solenoid:	Horn Air	74.0 ± 7.4
1013430	Solenoid:	Exhaust Diverter	31.1 ± 2.4
1070677	Solenoid:	Rail Pressure Valve	10.1
1508202	Solenoid:	Cylinder #1 thru #8	2.1 ± 0.2
1125874	Solenoid:	Lower Raise	6.5 ± 0.4
1259740	Resistor:	Blower Motor Dropping	A-C 2.0 ± 0.01 B-C 1.0 ± 0.05 C-D 0.36 ± 0.02
1398667	Sender:	Fuel Level	Full: 92 - 98 Empty: 0.0 - 3.5
1446292	Solenoid:	Down Shift Lockup Clutch	32.6 ± 1.6

¹ At room temperature unless otherwise noted.

Related Electrical Service Manuals

Title	Form Number
Brake Control:	SENR1503
Alternator: 1693345	SENR4130
Caterpillar Monitoring System:	SENR6717
Engine Control:	SENR1037
Payload Monitor (TPMS):	SENR4733
Starting and Charging System:	SENR2947
Starting Motor: 6V-0890	SENR3860
Transmission Control:	RENR2668

Off Machine Switch Specification

Part No.	Function	Actuate	Deactuate	Contact Position
3E-5464	Switch - A/C Thermostat Temp	1.1 ± 0.8 °C (30 ± 1.4 °F)	2.2 ± 0.8 °C (36 ± 1.4°F)	Normally Closed
3E-6428	Switch - Coolant Flow	362 ± 29 mN (1.3 ± .1 oz)	303 mN (1.8 oz)	Normally Open
3E-6450	Switch - Steering Pressure	1200 kPa (174 psi)	700 ± 100 kPa (101.5 ± 14.5 psi)	(A-C) Normally Closed (A-B) Normally Open
103-4977	Switch - Retard BK Pressure	60 kPa (8.7 psi)	28 ± 15 kPa (4.1 ± 2.16 psi)	Normally Open
111-9563	Switch - Arc Pressure	80 kPa 11.6 psi	55 ± 20 kPa (7.8 ± 2.9 psi)	Normally Closed
114-5333	Switch - A/C Refrigerant Pressure	Low: 275 kPa (39.9 psi) High: 2800 kPa ± 140 (406.1 ± 20.3 psi)	Low: 170 ± 55 kPa (24.7 ± 7.9 psi) High: 2800 ± 140 kPa (406.1 ± 20.3 psi)	Normally Open ¹
116-9846	Switch - XMSN Filter Pressure	276 ± 28 kPa 40 ± 4.1 psi)	179 kPa (26 psi)	Normally Closed

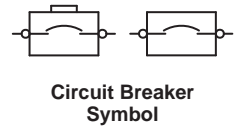
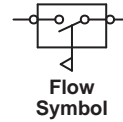
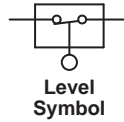
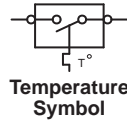
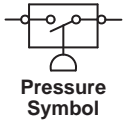
¹ With increasing pressure the closed condition can be maintained up to 2800 kpa (405 psi), with decreasing pressure the closed condition can be maintained down to 170 kpa (25psi).

HARNESS and WIRE

Electrical Schematic Symbols



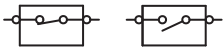
Symbols



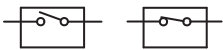
Symbols and Definitions



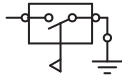
Fuse: A component in an electrical circuit that will open the circuit if too much current flows through it.



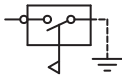
Switch (Normally Open): A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it.



Switch (Normally Closed): A switch that will open at a specified point (temp, press, etc.). No circle indicates that the wire cannot be disconnected from the component.



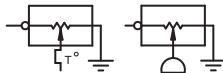
Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.



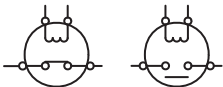
Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.



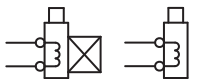
Reed Switch: A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch.



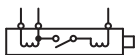
Sender: A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.



Relay (Magnetic Switch): A relay is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close the switch part of the relay.



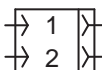
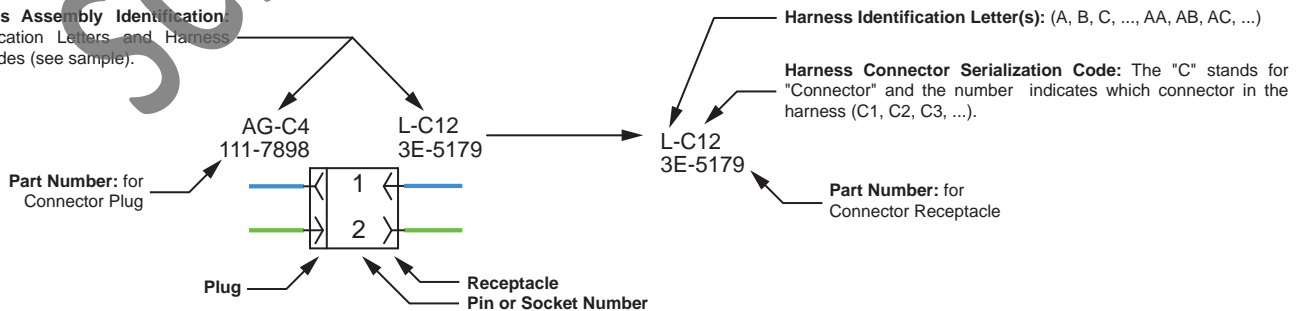
Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work.



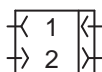
Magnetic Latch Solenoid: A magnetic latch solenoid is an electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnet when current flows through them. It also has an internal switch that places the latch coil circuit open at the time the coil latches.

Harness and Wire Symbols

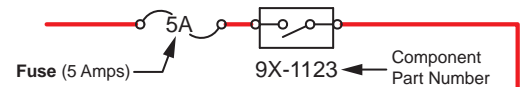
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample).



Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins.



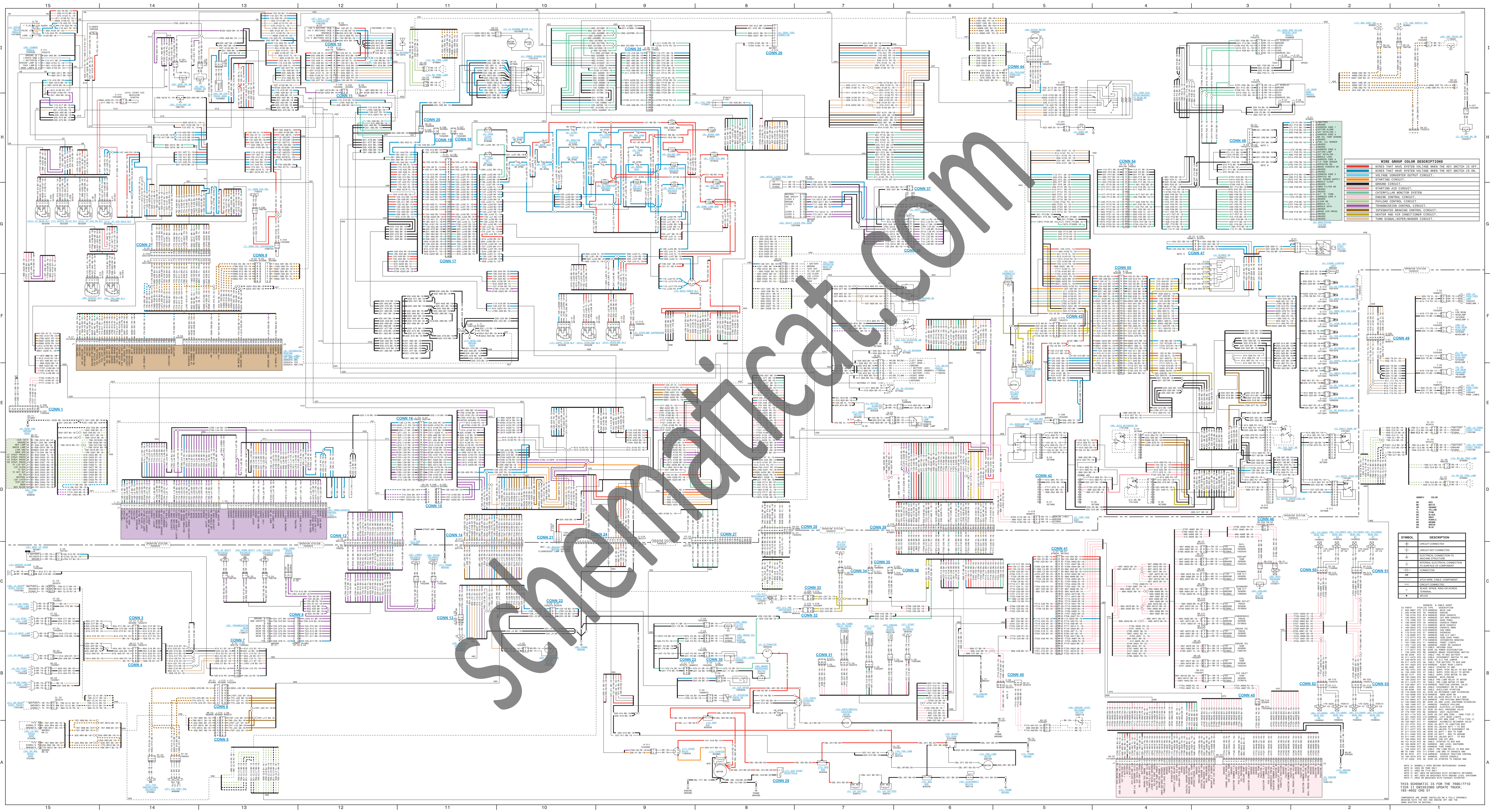
Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.



Harness identification code: This example indicates wire group 325, wire 135 in harness "AG".

325-AG135 **PK-14**

Wire Gauge
Wire Color



WIRE GROUP COLOR DESCRIPTIONS

RED	WIRING THAT OPERATES VOLTAGE WHEN THE KEY SWITCH IS OFF
ORANGE	WIRING THAT OPERATES VOLTAGE WHEN THE KEY SWITCH IS ON
YELLOW	WIRING CONNECTED TO THE BATTERY
GREEN	GROUND CIRCUIT
BLUE	ENGINE CONTROL SYSTEM
PURPLE	STARTER/CLAMP SYSTEM
PINK	PARKING CONTROL SYSTEM
BROWN	TRANSMISSION CONTROL SYSTEM
BLACK	INTERMEDIATE SWITCHING SYSTEM
GRAY	WIRING AND ALL OTHERS
WHITE	TANK SIGNAL SYSTEM

SYMBOL DESCRIPTION

+	GROUND CONNECTED
-	GROUND NOT CONNECTED
+	GROUND NOT CONNECTED TO BATTERY
-	GROUND NOT CONNECTED TO BATTERY
+	GROUND NOT CONNECTED
-	GROUND NOT CONNECTED
+	GROUND NOT CONNECTED
-	GROUND NOT CONNECTED
+	GROUND NOT CONNECTED
-	GROUND NOT CONNECTED

1. WIRING GROUPS: 1. WIRING GROUP 1
 2. WIRING GROUP 2
 3. WIRING GROUP 3
 4. WIRING GROUP 4
 5. WIRING GROUP 5
 6. WIRING GROUP 6
 7. WIRING GROUP 7
 8. WIRING GROUP 8
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 97. WIRING GROUP 97
 98. WIRING GROUP 98
 99. WIRING GROUP 99
 100. WIRING GROUP 100

THIS SCHEMATIC IS FOR THE 7690/7710
 151-4622 CHA 01
 151-4622 CHA 01

MACHINE HARNESS CONNECTOR AND COMPONENT LOCATIONS

