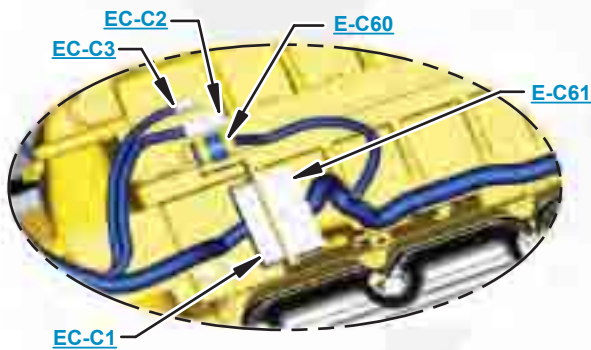


This document is best viewed at a screen resolution of 1024 X 768.

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

D9R Track-Type Tractor with 3408E Engine Electrical System

ABK1-UP
ACL1-UP

Volume 1 of 2: Cab and Basic Engine
Volume 2 of 2: Flexxaire Fan Attachments

COMPONENT LOCATION

Volume 1 of 2 - CAB AND BASIC ENGINE

Page 1 of 2



Component	Schematic Location	Machine Location
Alarm - Action	F-18	2
Alarm - Backup	K-17	1
Alternator	I-5	3
Aux Start Receptacle	K-4	5
Battery	A-4	6
Battery	K-4	6
Breaker - Blower	I-12	7
Breaker - ECB	I-12	7
Breaker - Engine	I-12	7
Breaker - Floods (Front)	J-12	7
Breaker - Implement/Flexaire	I-12	7
Breaker - Key	I-12	7
Breaker - Main	I-14	7
Breaker - Remote Condenser	I-12	7
Caterpillar Monitoring System	E-15	A
Control - Engine	C-3	8
Timer - Prelube	I-4	9
Converter - 24V to 12V	I-18	B
Converter - 24V to 12V (15A)	C-17	65
Decelerator Pedal	E-13	10
Dimmer	F-14	A
Fuse Block	H-12	7
Gauge Cluster	F-15	A
Horn - High Tone	H-1	12
Horn - Low Tone	H-1	12
Lamp - Low Lock	E-17	B
Lamp - Master Action	E-14	A
Lamp - Rear Master Action	G-18	B
Module - Air Conditioner	I-3	28
Module - Intermittent (Front)	A-11	D
Module - Intermittent (Left))	B-11	D
Module - Intermittent (Rear)	C-13	D
Module - Intermittent (Right)	A-11	D
Motor - Blower	L-17	13
Motor - Condenser #1	B-18	14

Component	Schematic Location	Machine Location
Sensor - Engine Oil Temp	D-2	41
Sensor - Fan Speed	H-3	23
Sensor - Fuel Temperature	F-2	42
Sensor - Hydraulic Oil Temp	C-16	25
Sensor - Manifold Inlet Air Temperature	D-2	27
Sensor - Powertrain Oil Temp	B-6	24
Sensor - Primary Speed / Timing	E-2	41
Sensor - Rail Press	E-2	41
Sensor - Timing Calibration	G-4	26
Sensor - Transmission Speed	J-17	38
Sensor - Turbo Inlet Pressure	G-4	27
Sensor - Turbo Outlet Pressure	D-2	43
Solenoid - AC Clutch	H-3	28
Solenoid - Disable / Winch	E-17	45
Solenoid - Dual Tilt	I-1	29
Solenoid - Fan Valve	G-3	30
Solenoid - Injectors	F-3	31
Solenoid - Low Lock / Winch	E-17	45
Solenoid - Quick Drop Valve	H-1	32
Solenoid - Rail Press Control Valve	F-2	41
Solenoid - Ripper Pin	C-18	33
Solenoid - Start Aid	C-6	17
Starter - #1/Prelube	K-3	34
Starter - #2	A-4	34
Suppressor - Arc #1	C-18	33
Suppressor - Arc #2	C-18	33
Suppressor - Arc #3	I-2	4
Suppressor - Arc #4	I-1	4
Suppressor - Arc #5	H-1	32
Switch - A/C High Pressure	H-4	28
Switch - A/C Low Pressure	I-3	28
Switch - A/C On	F-17	A
Switch - Accessory	E-13	A
Switch - Blower	F-18	A
Switch - Clutch Brake Backup Alarm	J-15	C

Machine locations are repeated for components located close together.

A = Operator Compartment - Front Dash

B = Operator Compartment - Right Console

C = Operator Compartment - Left Console

D = Operator Compartment - Overhead Console

E = Operator Compartment

COMPONENT LOCATION

Volume 1 of 2 - CAB AND BASIC ENGINE

Page 2 of 2



Component	Schematic Location	Machine Location
Motor - Condenser #2	A-18	14
Motor - Fan / Defrost (Front)	D-12	13
Motor - Fan / Defrost (Rear)	C-15	13
Motor - Washer (Front)	L-18	15
Motor - Washer (Left)	L-18	15
Motor - Washer (Rear)	L-18	15
Motor - Washer (Right)	L-18	15
Motor - Wiper (Front)	A-9	C
Motor - Wiper (Left)	B-9	C
Motor - Wiper (Rear)	C-12	C
Motor - Wiper (Right)	A-9	C
Power Outlet Socket	F-18	B
Power Post	G-8	62
Radio 12V	C-10	D
Radio 24V	C-11	D
Relay - Condenser	B-17	14
Relay - Main	H-14	7
Relay - Prelube	J-4	66
Relay - Start #1	H-14	7
Relay - Start #2	H-14	7
Relay - Start Aid	C-6	17
Relay - Wiper (Front)	A-10	D
Relay - Wiper (Left)	B-10	D
Relay - Wiper (Rear)	C-13	D
Relay - Wiper (Right)	A-10	D
Resistor - Blower	L-16	13
Resistor - Starter #1 (Prelube)	K-3	18
Resistor - Starter #2	B-5	19
Seat - Heater / Air	H-17	2
Sensor - Atmospheric Pressure	D-2	41
Sensor - Backup Speed / Timing	E-2	41
Sensor - Coolant Temp	E-2	21
Sensor - Engine Oil Pressure	D-2	22

Component	Schematic Location	Machine Location
Switch - Clutch Brake Neutral Start	J-15	C
Switch - Clutch Brake Odometer Rev	J-15	C
Switch - Coolant Flow	E-2	20
Switch - Diff Steer Neutral Start	K-15	C
Switch - Disable / Winch	E-17	45
Switch - Disconnect	K-5	35
Switch - DS Backup Alarm / Odom Fwd	J-15	C
Switch - Flood (Front)	G-13	A
Switch - Flood (Rear)	F-13	A
Switch - Flood (Side)	F-13	A
Switch - Horn	E-18	B
Switch - Hydraulic Filter Bypass	H-2	36
Switch - Hydraulic Filter Temp	G-2	36
Switch - Joystick	E-17	B
Switch - Key Switch	F-13	A
Switch - Operator	E-13	A
Switch - Pitch Control	H-17	B
Switch - Prelube Oil Pressure	J-4	37
Switch - PTO Filter Pressure	J-16	38
Switch - PTO Filter Temp	J-17	38
Switch - Quick Drop	B-16	39
Switch - Ripper Pin Puller	E-18	B
Switch - Single/Dual Tilt	H-17	B
Switch - Start Aid	E-13	A
Switch - Throttle	G-17	B
Switch - Wiper (Front)	B-14	A
Switch - Wiper (Left)	B-14	A
Switch - Wiper (Rear)	C-14	A
Switch - Wiper (Right)	A-14	A
Tachometer	G-15	A
Thermostat	L-15	C
Ultrasonic Fuel Level	J-17	40
Winch Joystick	E-17	B

Machine locations are repeated for components located close together.

A = Operator Compartment - Front Dash

B = Operator Compartment - Right Console

C = Operator Compartment - Left Console

D = Operator Compartment - Overhead Console

E = Operator Compartment

COMPONENT LOCATION

Volume 2 of 2 - FLEXXAIRE FAN ATTACHMENTS



Component	Schematic Location	Machine Location
Alternator	E-7	67
Breaker - Implement Flexxaire	E-2, D-4	68
Motor 1	C-3	69
Motor 2	B-3	70
Relay 1 (Remote Cooler)	B-3	71
Relay 2 (Remote Cooler)	B-3	72
Relay 1 (FTC Tractor)	D-1	73
Relay 2 (FTC Tractor)	D-1	74
Relay 3 (Diff Steer Tractor)	D-3	73
Relay 4 (Diff Steer Tractor)	C-3	74
Switch - Temperature (Oil Inlet)	B-3	75
Solenoid - Flexxaire Fan	E-4, E-2	76
Switch - Fan	D-4, E-2	77
Switch - Temperature (Oil Cooler)	A-3	78

Machine locations are repeated for components located close together.

CONNECTOR LOCATION

Volume 1 of 2 - CAB AND BASIC ENGINE

Page 1 of 2



Connector Number	Schematic Location	Machine Location
CONN 1	F-18	B
CONN 2	H-18	B
CONN 3	J-18	47
CONN 4	K-18	48
CONN 5	K-18	48
CONN 6	L-17	15
CONN 7	A-16	15
CONN 8	A-16	14
CONN 9	C-16	2
CONN 10	D-16	16
CONN 11	G-16	61
CONN 12	J-16	38
CONN 13	L-16	15
CONN 14	L-15	60
CONN 15	K-15	15
CONN 16	K-14	C
CONN 17 Monitor Service	J-13	62
CONN 18 Datalink Service	I-13	62
CONN 19	D-13	A
CONN 20	C-13	D
CONN 21	B-13	E
CONN 22	B-13	E
CONN 23 Code Plug	E-12	A
CONN 24 CAES/METS Pwr and Datalink	J-11	7
CONN 25	I-11	50
CONN 26	G-11	50
CONN 27	B-11	E
CONN 28	C-10	A
CONN 29	D-10	A
CONN 30	D-10	A

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.

CONNECTOR LOCATION

Volume 1 of 2 - CAB AND BASIC ENGINE

Page 2 of 2



Connector Number	Schematic Location	Machine Location
CONN 31	D-10	17
CONN 32	F-8	50
CONN 33	F-8	50
CONN 34	G-8	50
CONN 35	H-8	50
CONN 36	I-8	50
CONN 37 Starting/Charging Diagnostics	I-8	50
CONN 38	L-7	62
CONN 39	D-7	50
CONN 40	D-7	50
CONN 41	C-7	50
CONN 42	C-7	50
CONN 43	C-7	50
CONN 44	B-7	51
CONN 45	A-6	63
CONN 46	C-6	63
CONN 47	E-6	52
CONN 48	G-6	11
CONN 49	G-6	9
CONN 50	I-6	9
CONN 51	E-5	53
CONN 52	D-5	11
CONN 53	B-4	11
CONN 54 Aux Start Receptacle	K-4	5
CONN 55	I-3	54
CONN 56	H-3	28
CONN 57	B-3	55
CONN 58	F-2	41
CONN 59	J-2	64
CONN 60	E-18	B
CONN 61 Accessory Connector	A-16	45

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.

CONNECTOR LOCATION

Volume 2 of 2 - FLEXXAIRE FAN ATTACHMENTS



Connector Number	Schematic Location	Machine Location
CONN 25	B-5	50
CONN 39	B-7	50
CONN 40	A-7	50
CONN 47	D-6	52
CONN 48	C-7	11
CONN 49	C-7	9
CONN 51	D-5, F-1	53
CONN 52	C-5	11
CONN 56	E-5	28
CONN 62	D-3	79
CONN 63	D-3	80
CONN 64	E-2	81
CONN 65	E-1	79
CONN 66	D-1	80

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 (CID ¹) Caterpillar Monitoring System (MID ² 030)	
CID	Component
0096	Fuel Level Signal
0100	Engine Oil Pressure Signal
0110	Engine Coolant Temperature Signal
0177	Torque Converter Oil Temperature Signal
0248	Cat Data Link
0263	Sensor +8V Supply
0271	Action Alarm
0280	Powertrain Oil Temperature Signal
0324	Action Lamp
0600	Hydraulic Oil Temperature Signal
0819	Data Link Display
0821	Display +9V Supply
1045	Temperature Sensor (Power Train Oil)
1425	Temperature Sensor (Implement Tank Oil)
Component Identifiers (CID ¹) Engine Control (MID ² 036)	
CID	Component
0001	Cylinder 1 Injector Solenoid
0002	Cylinder 2 Injector Solenoid
0003	Cylinder 3 Injector Solenoid
0004	Cylinder 4 Injector Solenoid
0005	Cylinder 5 Injector Solenoid
0006	Cylinder 6 Injector Solenoid
0007	Cylinder 7 Injector Solenoid
0008	Cylinder 8 Injector Solenoid
0042	Injection Actuation Control Valve
0091	Throttle Switch
0100	Oil Pressure Signal
0110	Coolant Temperature Signal
0164	Injection Actuation Pressure Signal
0168	Battery Voltage
0172	Inlet Air Temperature Signal
0174	Fuel Temperature Signal
0175	Oil Temperature Signal
0190	Primary Engine Speed Signal
0248	Cat Data Link
0253	Personality Module
0254	Internal ECM
0261	Timing Sensor Calibration
0262	Analog Sensor Supply
0263	Digital Sensor Supply
0264	Decelerator Output
0266	Crank W/O Inject Inputs
0268	Programmable Parameters
0273	Turbocharger Outlet Pressure Signal
0274	Atmospheric Pressure Signal
0275	Turbocharger Inlet Pressure Signal
0277	Timing Calibration
0291	Engine Cooling Fan Solenoid
0342	Backup Engine Speed Signal
0544	Engine Fan Speed Signal
0545	Start Aid Injection Control Relay
0799	Service Tool
1599	Engine Fan Pull Solenoid
1600	Engine Fan Push Solenoid

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

Monitoring System Service Modes	
Service Mode	Number
Operator Mode Sequence	0
Harness Code	1
Numeric Readout	2
Service	3
Digital Tattletale	4
Units	5
Charging System Display	6

Monitoring System Operator Modes	
Operator Mode	Number
Service Meter	1
Tachometer	2
Engine Oil Pressure	3
Odometer - Machine Travel Distance	4
Scrolling (Diagnostic)	5

Machine Codes	
Machine	Code
D9R Differential Steer (HEUI)	19, 36
D9R Clutch / Brake (HEUI)	20, 21
D9R Clutch / Brake (Mech)	31, 40
D9R Differential Steering (Mech)	37, 39
D9R (Water Glycol)	49, 50

Event Codes	
Code	Description
E017	Engine Coolant Temperature Warning
E025	High Inlet Air Temperature Derate
E027	High Air Inlet Temperature Warning
E100	Low Engine Oil Pressure Warning
E164	High Injector Actuation Pressure
E190	Engine Overspeed Warning
E265	User Defined Shutdown
E272	Inlet Air Restriction Warning

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.

SPECIFICATIONS AND RELATED MANUALS

Volume 1 of 2 - CAB AND BASIC ENGINE



Resistor, Sender and Solenoid Specifications		
Part No.	Component Description	Resistance (Ohms) ¹
3E-6333	Solenoid: Start Aid	6.0
3E-7842	Resistor: Starter #1 Prelube Diagnostic Starter #2 Diagnostic	150 ± 7.5
3E-8575	Solenoid: Ripper Pin	24.9 ± 0.4
3E-9205	Solenoid: Dual Tilt	24.9 ± 0.4
106-5122	Solenoid: A/C Clutch	17.6 ± 0.6
107-0677	Solenoid: Rail Pressure Control Valve	10.1
125-9740	Resistor: Blower Motor	A-C: 2.00 ± 0.10 B-C: 1.00 ± 0.05 C-D: 0.36 ± 0.018
126-0858	Solenoid: Disable / Winch Low Lock / Winch	39.3
152-8346	Solenoid: Quick Drop Valve	32.6 ± 1.6
162-0482	Solenoid: Fuel Injectors	2.1 ± 0.2
176-5321	Solenoid: Fan Valve	2.2 ± 0.2

¹ At room temperature unless otherwise noted.

² Letters are stamped near terminals.

Related Electrical Service Manuals	
Title	Form Number
34SI Alternator: 200-8281 200-8277	SENR7508
50MT Starting Motor: 6V-0513 6V-0928 123-8686	SENR3860
Caterpillar Monitoring System	REN2014
Flexaire Fan System	REN3699
Starting and Charging System	SENR2947
Troubleshooting 3408E Engine for Caterpillar Built Machines	SENR1054

Off Machine Switch Specification					
Part No.	Function	Actuate		Deactuate	Contact Position
3E-5464	Refrigerant Thermostat	-1.1 ± 0.8°C (30 ± 1.44°F)		2.2 ± 0.8°C (36 ± 1.44°F)	Normally Closed
3E-9350	PTO Filter Temperature	52 ± 3.0°C (125.6 ± 5.4°F)		43°C MIN (109.4°F MIN)	Normally Closed
105-9152	Prelube Oil Pressure	30 ± 7 kPa (4.4 ± 1 psi)		30 ± 7 kPa (4.4 ± 1 psi)	Normally Closed
114-5333	A/C High Pressure	low	275 kPa ¹ (39.9 psi)	170 ± 55 kPa ¹ (25 ± 8 psi)	Normally Open ²
		High	2800 kPa ¹ (406.1 psi)		
124-8274	Hydraulic Filter Temperature	25 ± 3°C (77 ± 5.4 °F)		15°C MIN (59°F MIN)	Normally Closed
149-6371	A/C Low Pressure	103.4 ± 13.8 kPa (15.0 ± 2.0 psi)		34.5 ± 7.0 kPa (5.0 ± 1.0 psi)	Normally Open
171-8708	Coolant Flow	362 ± 29 mN (1.3 ± 0.1 oz) at point X		303 mN MIN (1.1 oz MIN) at point X	Normally Open

¹ With increasing pressure the closed condition can be maintained up to 2800 kPa (406 psi), with decreasing pressure the closed condition can be maintained down to 170 kPa (25 psi).

² Contact position at the contacts of the harness connector

SPECIFICATIONS AND RELATED MANUALS

Volume 2 of 2 - FLEXXAIRE FAN ATTACHMENTS



Solenoid Specifications		
Part No.	Component Description	Resistance (Ohms) ¹
3E-9205	Solenoid: Dual Tilt	24.9 ± 0.4

¹ At room temperature unless otherwise noted.

² Letters are stamped near terminals.

Related Electrical Service Manuals		
Title		Form Number
34SI Alternator:	200-8281	SENR7508
	200-8277	
50MT Starting Motor:	6V-0513	SENR3860
	6V-0928	
	123-8686	
Caterpillar Monitoring System		REN2014
Flexaire Fan System		REN3699
Starting and Charging System		SENR2947
Troubleshooting 3408E Engine for Caterpillar Built Machines		SENR1054

Off Machine Switch Specification				
Part No.	Function	Actuate	Deactuate	Contact Position
155-8998	Oil Inlet Temperature	65 ± 3°C (149 ± 37.4°F)	58°C (136.4°F)	Normally Open
133-9405	Fan	11.12 + 2.22 N - 4.45 N	-	A-C : Normally Closed A-B : Normally Open

¹ With increasing pressure the closed condition can be maintained up to 2800 kPa (406 psi), with decreasing pressure the closed condition can be maintained down to 170 kPa (25 psi).

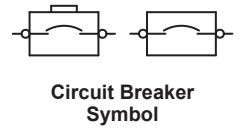
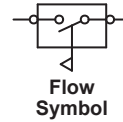
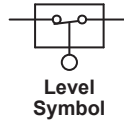
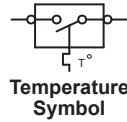
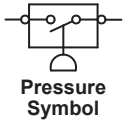
² Contact position at the contacts of the harness connector

HARNESS and WIRE

Electrical Schematic Symbols



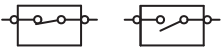
Symbols



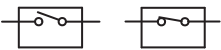
Symbols and Definitions



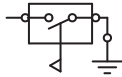
Fuse: A component in an electrical circuit that will open the circuit if too much current flows through it.



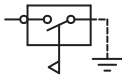
Switch (Normally Open): A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it.



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.



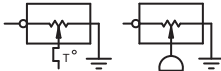
Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine.



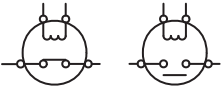
Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.



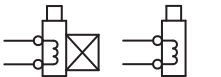
Reed Switch: A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch.



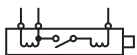
Sender: A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.



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.



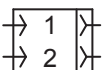
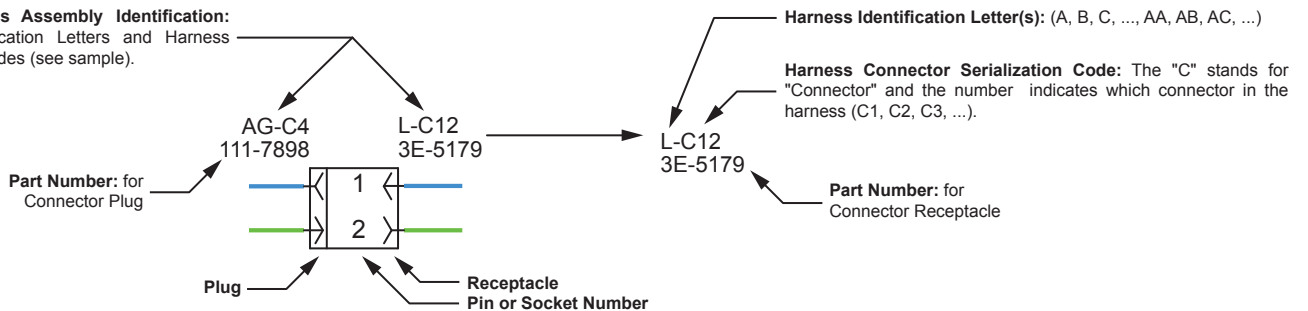
Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work.



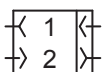
Magnetic Latch Solenoid: A magnetic latch solenoid is an electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnet when current flows through them. It also has an internal switch that places the latch coil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

Harness and Wire Symbols

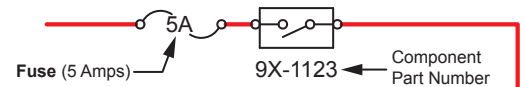
Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample).



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



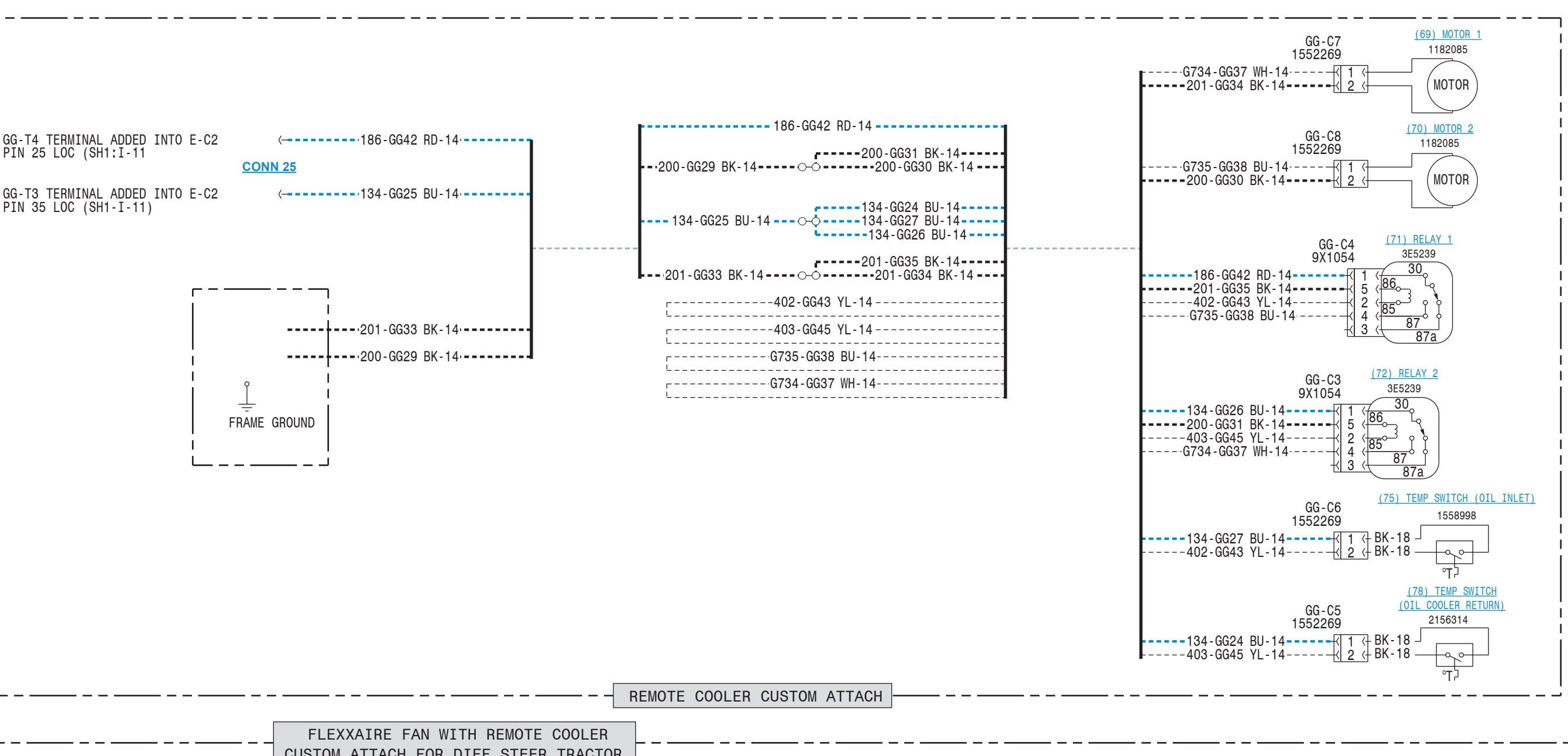
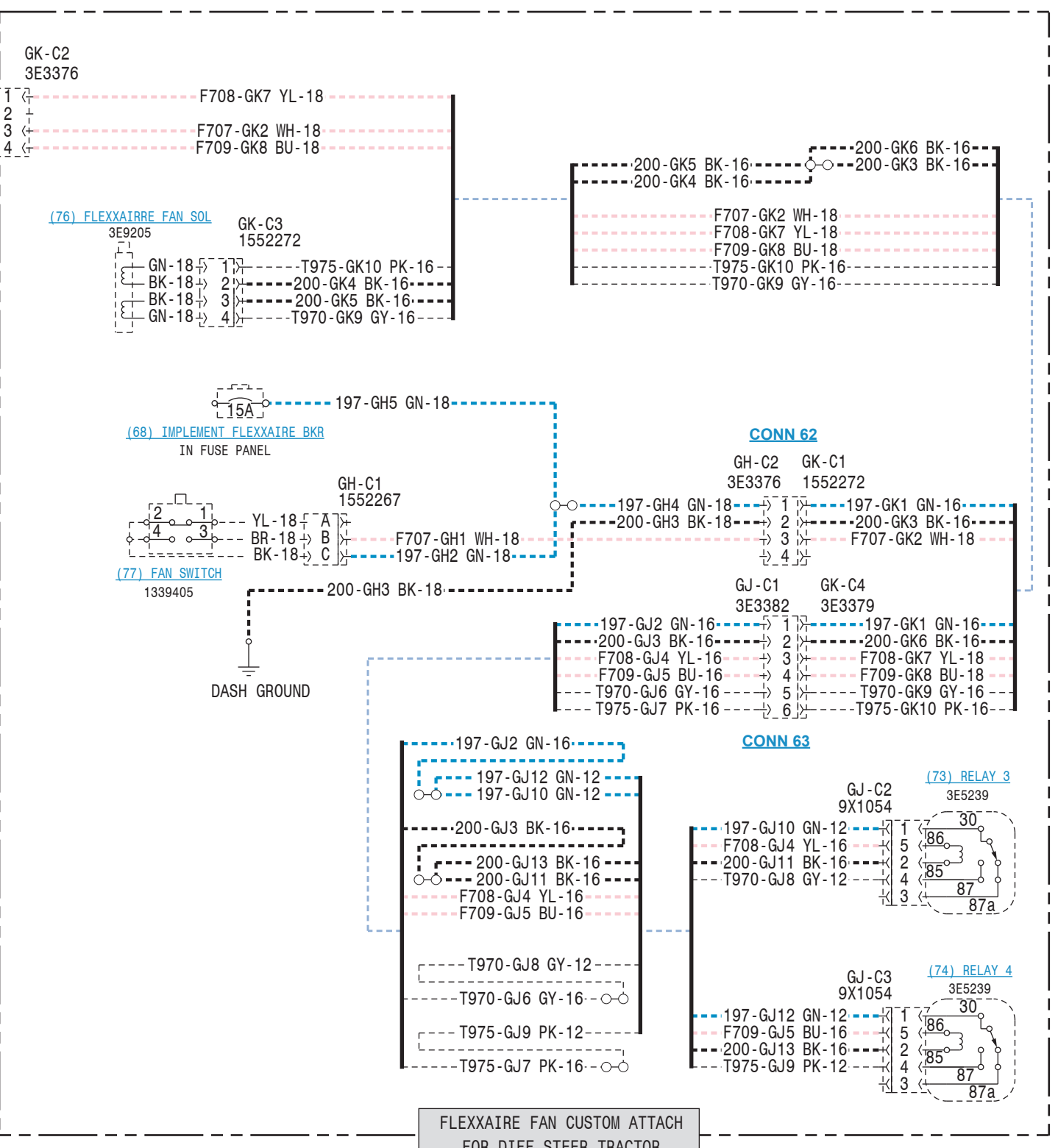
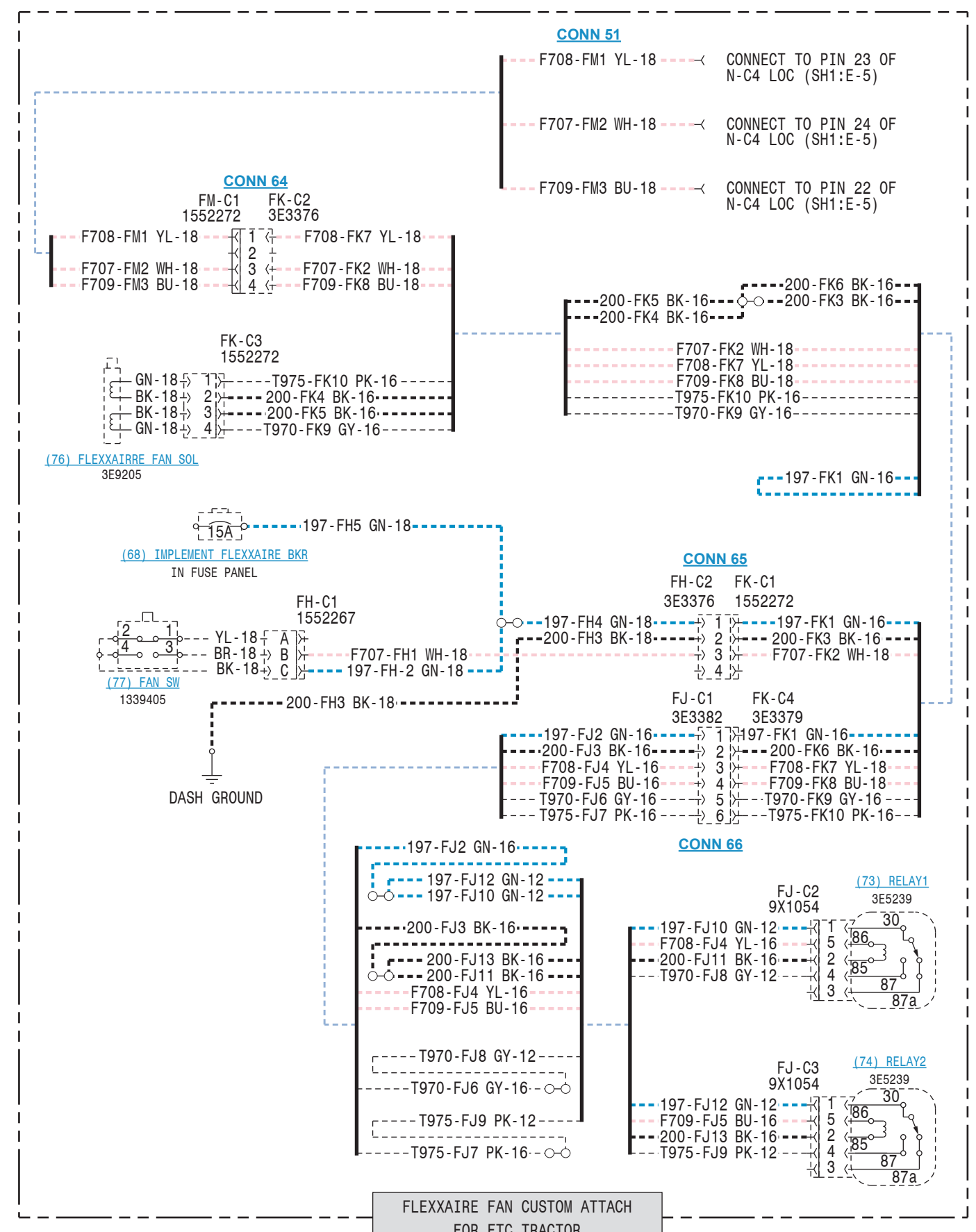
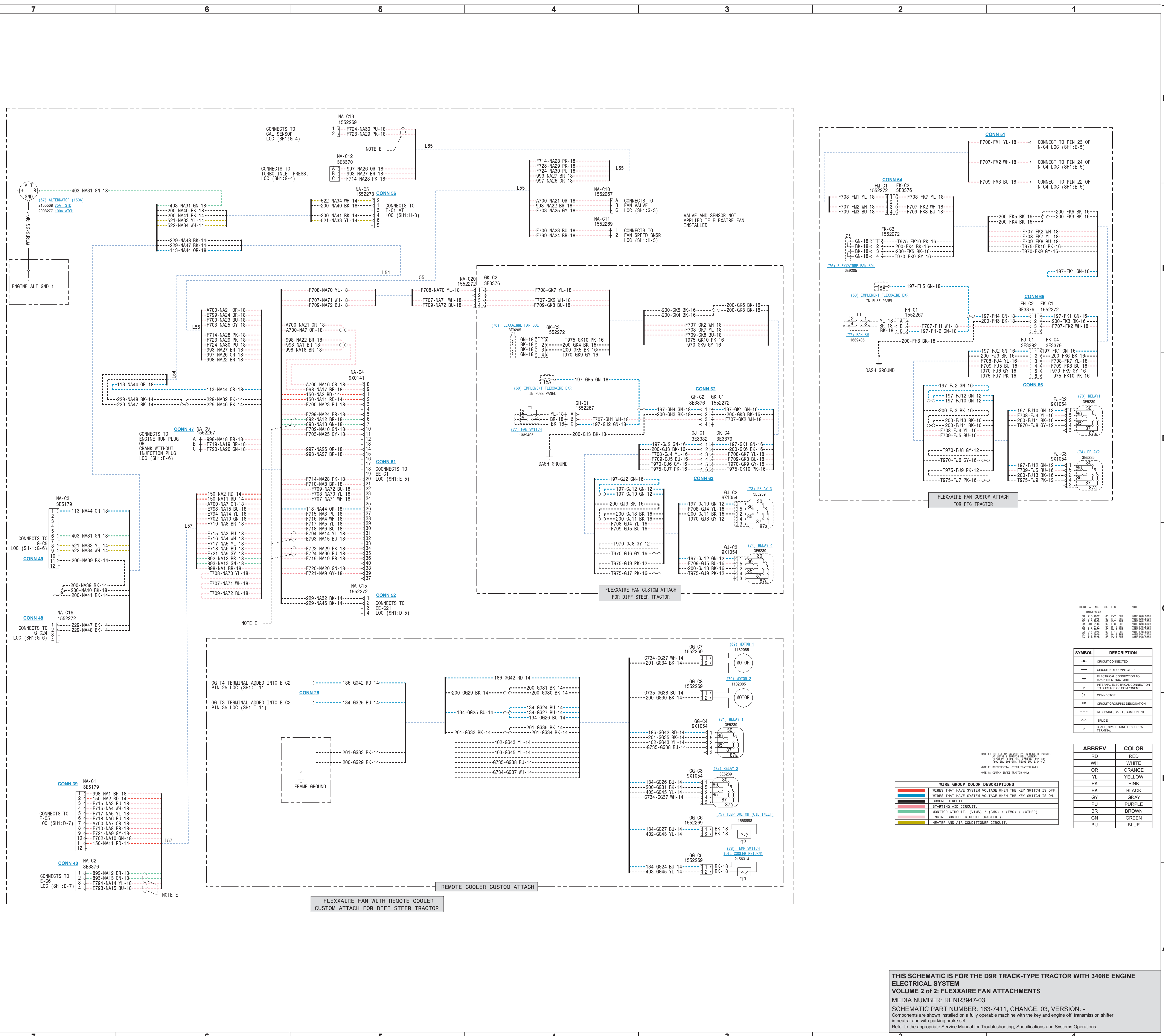
Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.



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

325-AG135 **PK-14**

Wire Gauge
Wire Color



IDENT PART NO.	CHG	LOC	NOTE	
FJ 3116	001	00	1	WTS 000000
FJ 3117	001	00	1	WTS 000000
FJ 3118	001	00	1	WTS 000000
FJ 3119	001	00	1	WTS 000000
FJ 3120	001	00	1	WTS 000000
FJ 3121	001	00	1	WTS 000000
FJ 3122	001	00	1	WTS 000000
FJ 3123	001	00	1	WTS 000000
FJ 3124	001	00	1	WTS 000000
FJ 3125	001	00	1	WTS 000000

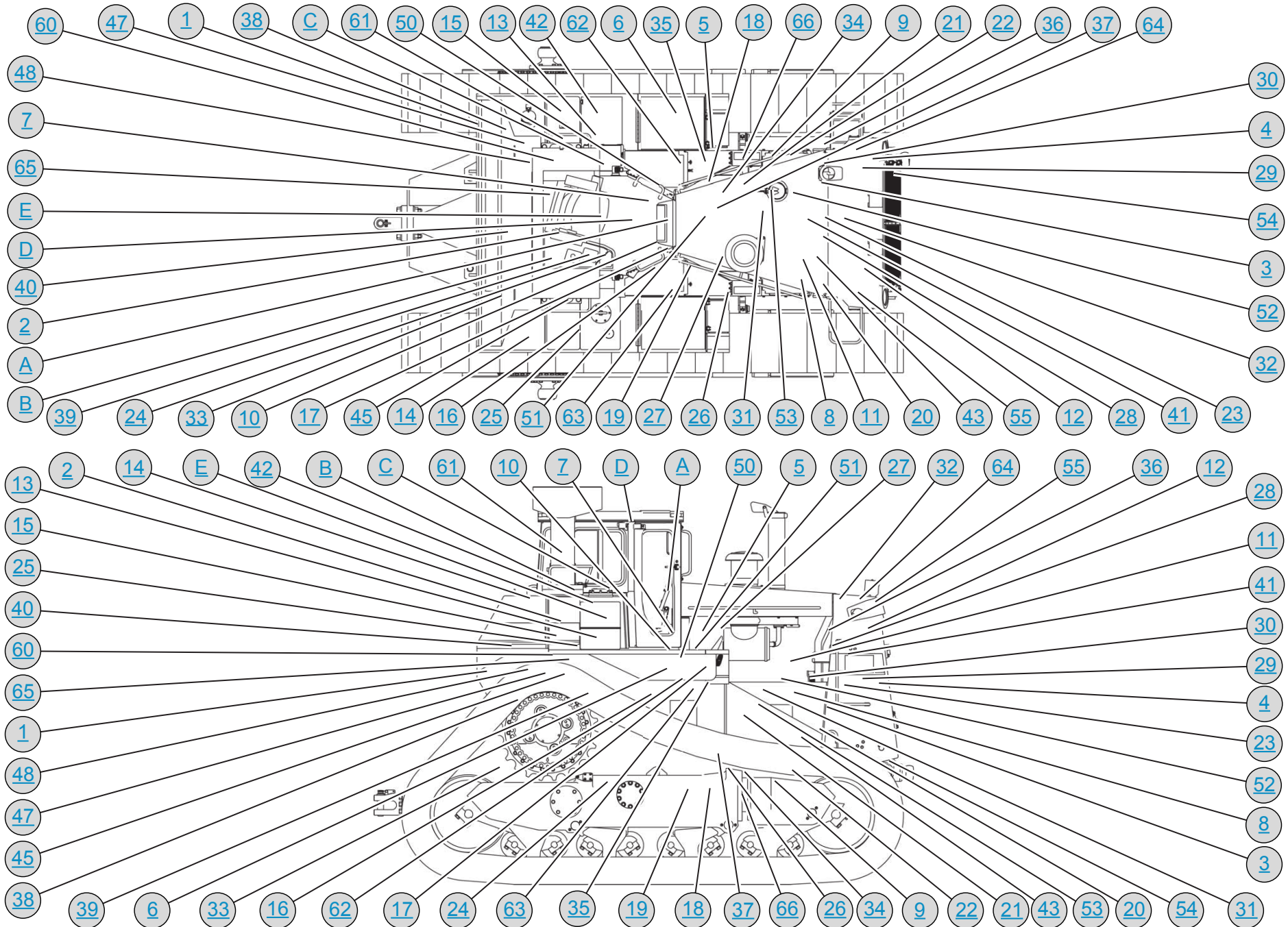
SYMBOL	DESCRIPTION
+	CIRCUIT CONNECTED
+	CIRCUIT NOT CONNECTED
+	ELECTRICAL CONNECTION TO MACHINE STRUCTURE
+	INTERNAL ELECTRICAL CONNECTION TO SURFACE OF COMPONENT
→	CONNECTOR
≡	CIRCUIT GROUPING DESIGNATION
---	ATCH WIRE CABLE COMPONENT
○	BRACE
○	BLACK SPACE, RING OR SCREW TERMINAL

ABBREVIATION	COLOR
RD	RED
WH	WHITE
OR	ORANGE
YL	YELLOW
PK	PINK
BK	BLACK
CY	GRAY
PU	PURPLE
BR	BROWN
GN	GREEN
BU	BLUE

WIRE GROUP COLOR DESCRIPTIONS
 WIRE GROUPS THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF.
 WIRE GROUPS THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON.
 GROUND CIRCUIT.
 STARTING AID CIRCUIT.
 MONITOR CIRCUIT (VIBS) / (CMS) / (EMS) / (OTHER).
 ENGINE CONTROL CIRCUIT (MASTER).
 HEATER AND AIR CONDITIONER CIRCUIT.

THIS SCHEMATIC IS FOR THE D9R TRACK-TYPE TRACTOR WITH 3408E ENGINE ELECTRICAL SYSTEM
VOLUME 2 of 2: FLEXAIRE FAN ATTACHMENTS
 MEDIA NUMBER: RENR3947-03
 SCHEMATIC PART NUMBER: 163-7411, CHANGE: 03, VERSION: -
 Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake set.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

MACHINE HARNESS CONNECTOR AND COMPONENT LOCATIONS - CAB AND BASIC ENGINE



MACHINE HARNESS CONNECTOR AND COMPONENT LOCATIONS - FLEXXAIRE FAN ATTACHMENTS

