

Schematic

311C U, 312C, 314C, 315C, and 318C Excavator Electrical System - Attachment

311C U:
PAD1-UP
CKE1-UP

312C:
CBA1-UP
BWH1-UP
DBN1-UP
FDS1-UP

314C:
KJA1-UP
PCA1-UP
SNY1-UP

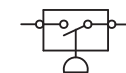
315C:
CJC1-UP
AKE1-UP
ANF1-UP

318C:
BTG1-UP
MDY1-UP

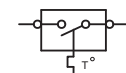
[Product Link](#)

Harness And Wire Electrical Schematic Symbols

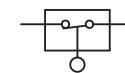
Symbols



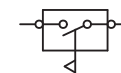
Pressure Symbol



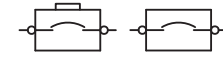
Temperature Symbol



Level Symbol



Flow Symbol

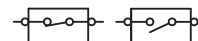


Circuit Breaker Symbol

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.



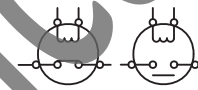
Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine.



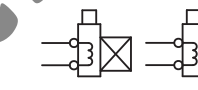
Reed Switch: A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch.



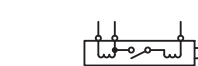
Sender: A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure.



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.

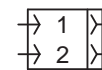


Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work.

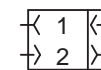


Magnetic Latch Solenoid: A magnetic latch solenoid is an electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnet when current flows through them. It also has an internal switch that places the latch coil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

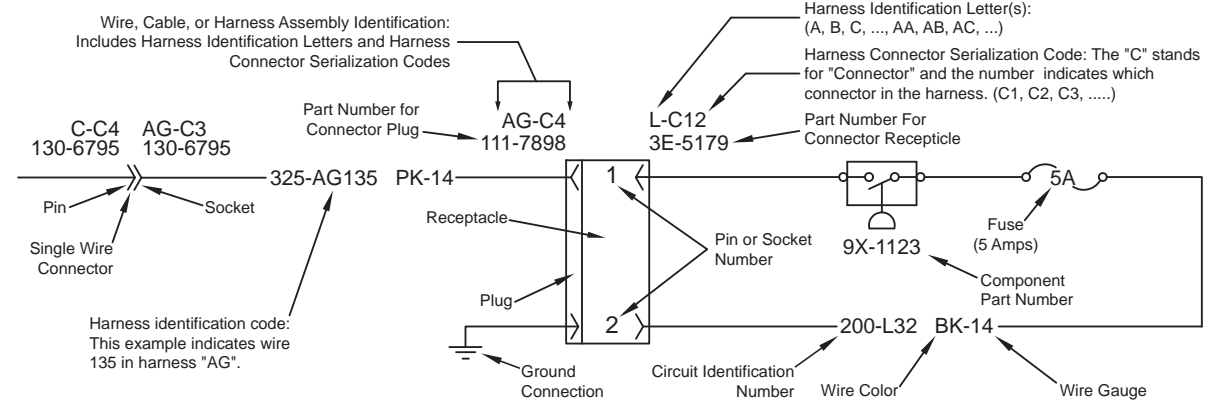
Harness and Wire Symbols



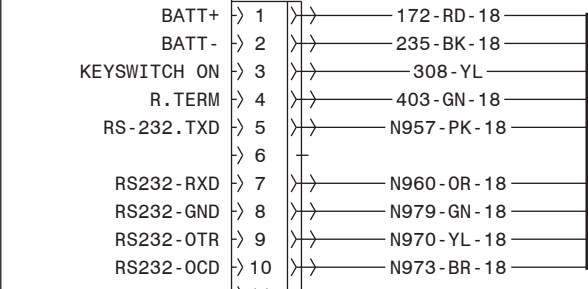
Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins.



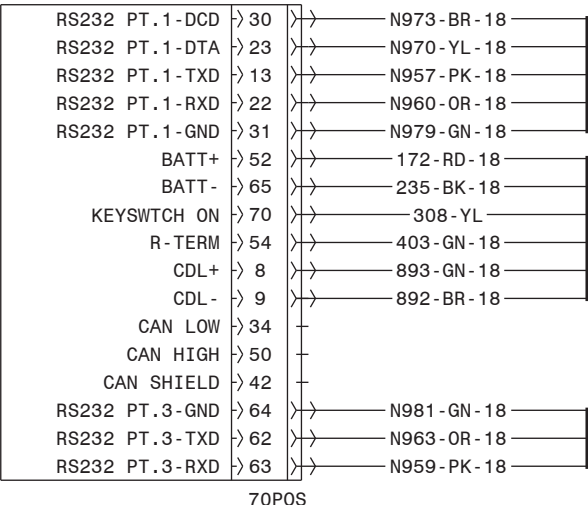
Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.



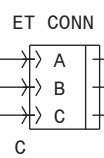
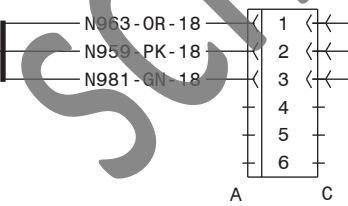
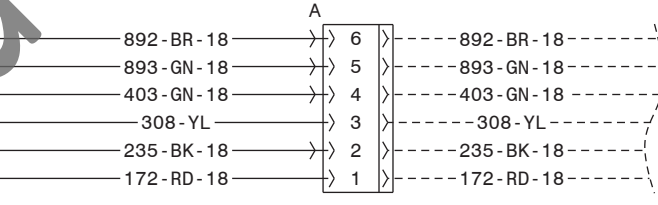
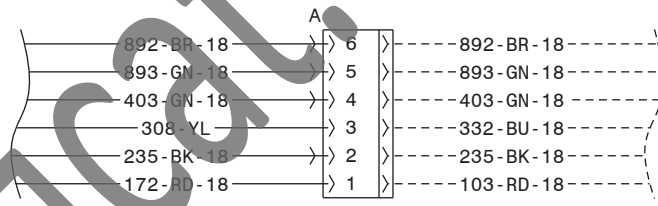
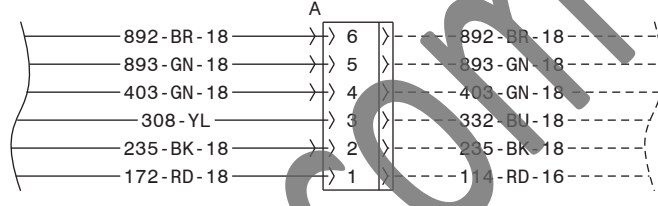
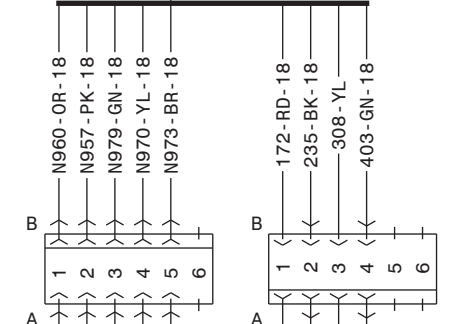
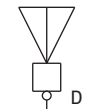
2ND GENERATION RADIO
238-9288



PRODUCT LINK
239-9954



ANTENNA



Module Identifier 122 Diagnostic Codes	
CID 0168 Electrical System	
FMI 00	Voltage Above Normal
FMI 01	Voltage Below Normal
CID 0254 Electronic Control Module	
FMI 04	Voltage Below Normal
FMI 12	Failed Module
CID0269 Sensor Power Supply	
FMI 03	Voltage Above Normal
FMI 04	Voltage Below Normal
CID 1250 Remote Communication Module	
FMI 09	Unable to Establish Communication
CID 1251 Alternator R-Terminal	
FMI 03	Voltage Above Normal

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
○	CIRCUIT CONNECTED
○	SPLICE
•	BLADE, SPADE, RING OR SCREW TERMINAL

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

311CU	312C	314CCR	315C	318C
HARNESS AS.	HARNESS AS.	HARNESS AS.	HARNESS AS.	HARNESS AS.
B 275-6954	A 275-6953	B 267-7958	A 275-6873	A 275-6873
C 259-4940	B 275-6954	C 259-4969	B 275-6872	B 275-6872
	C 259-4940		C 259-4940	C 259-4940
ANTENNA AS.	ANTENNA AS.	ANTENNA AS.	ANTENNA AS.	ANTENNA AS.
D 266-2861	D 266-2861	D 266-2861	D 266-2861	D 266-2861

THIS SCHEMATIC IS FOR THE 311C U, 312C, 314C, 315C, AND 318C EXCAVATOR
ATTACHMENT: PRODUCT LINK
 PART NUMBER: 275-6955, CHANGE: 00, VERSION: HE
 Components are shown installed on a fully operable machine.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.