

Schematic

D11T Track-Type Tractor CAT® Detect Object Detection Electrical System

AMA1-UP
GEB1-UP
TPB1-UP
MDG1-UP
JEL1-UP
JNS1-UP

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

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

Part Number: for Connector Plug → AG-C4 111-7898

Part Number: for Connector Receptacle → L-C12 3E-5179

Plug (Pin 1, Pin 2) ↔ **Receptacle** (Pin or Socket Number)

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 Letter(s): (A, B, C, ..., AA, AB, AC, ...)

Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3, ...).

Component Part Number: 9X-1123

Fuse (5 Amps) → 325-AG135

Wire Gauge → PK-14

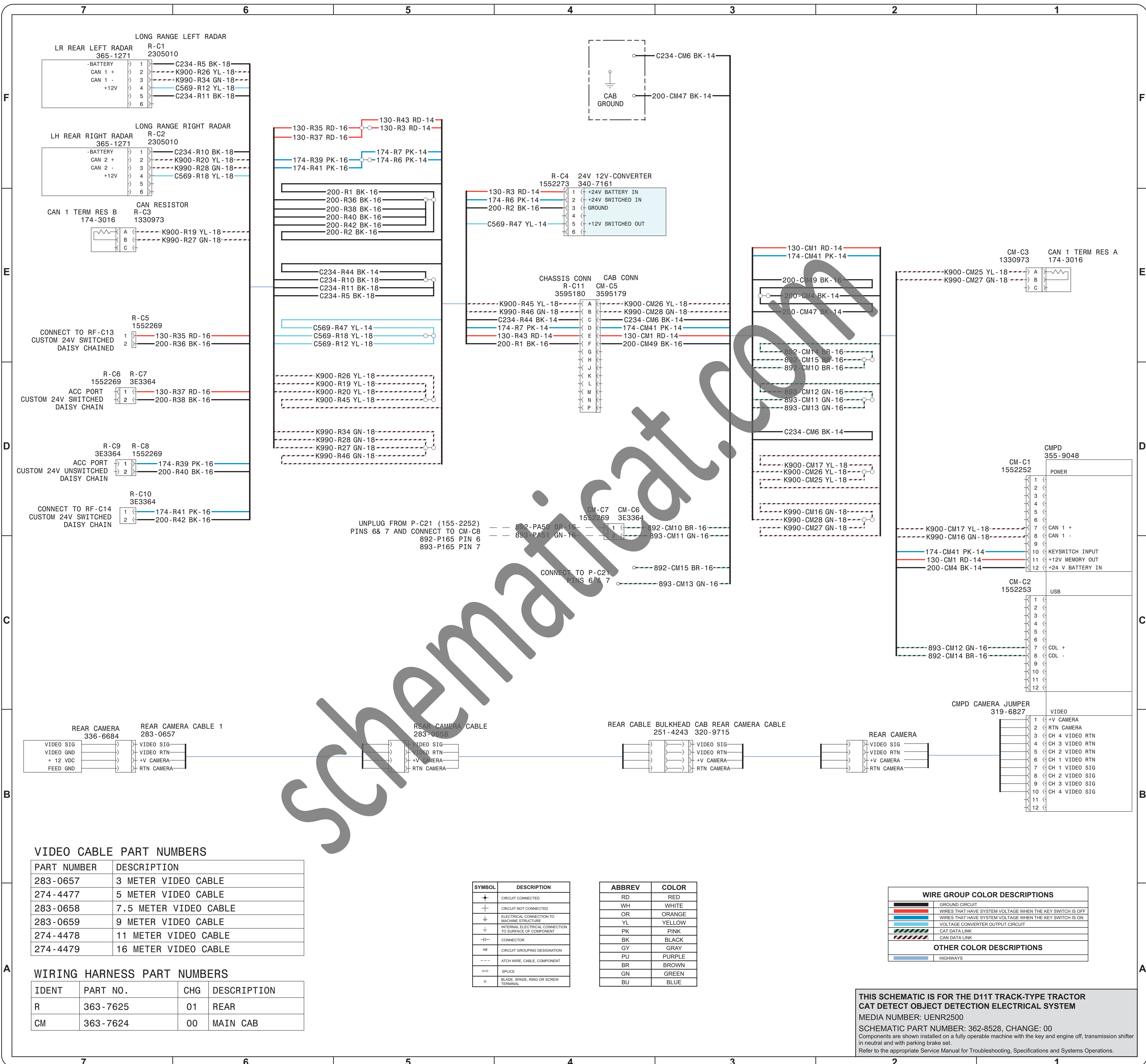
Wire Color

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

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VIDEO CABLE PART NUMBERS

PART NUMBER	DESCRIPTION
283-0657	3 METER VIDEO CABLE
274-4477	5 METER VIDEO CABLE
283-0658	7.5 METER VIDEO CABLE
283-0659	9 METER VIDEO CABLE
274-4478	11 METER VIDEO CABLE
274-4479	16 METER VIDEO CABLE

WIRING HARNESS PART NUMBERS

IDENT	PART NO.	CHG	DESCRIPTION
R	363-7625	01	REAR
CM	363-7624	00	MAIN CAB

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
o	SPLICE
o	BLADE, SPADE, RING OR SCREW TERMINAL

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

WIRE GROUP COLOR DESCRIPTIONS	
(Solid Black)	GROUND CIRCUIT
(Dashed Blue)	WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
(Dashed Red)	WIRES THAT HAVE SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
(Dashed Green)	VOLTAGE CONVERTER OUTPUT CIRCUIT
(Dashed Yellow)	CAN DATA LINK
(Dashed Purple)	CAN DATA LINK
OTHER COLOR DESCRIPTIONS	
(Solid Blue)	HIGHWAYS

THIS SCHEMATIC IS FOR THE D11T TRACK-TYPE TRACTOR CAT DETECT OBJECT DETECTION ELECTRICAL SYSTEM
 MEDIA NUMBER: UENR2500
 SCHEMATIC PART NUMBER: 362-8528, CHANGE: 00
 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.