SR130
SR160
Tier 4B (final)

Alpha Series Skid Steer Loader

SR130 PIN NDM442151 and above
SR160 PIN NDM477801 and above

SERVICE MANUAL

Part number 47712039
English
April 2014
Replaces part number 47465734

CASE CONSTRUCTION

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Fuse and relay box - General specification Relay and Fuse Identification - Small Mechanical Machines

SR130	NA
SR160	NA Mechanical hydraulic controls

Component Name	Component ID
Lights Relay #1	K-001
Lights Relay #2	K-002
Accessory Relay	K-005
Main Power Relay	K-009
Main ECU Relay	K-010
Burner Glow Relay	K-011
Burner Air Pump Relay	K-012
Crank Relay	K-013
Fuel Pump Relay	K-014
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1054-Timeout of CAN message engine temperature, 5 seconds without message

Context:
CAN bus communications between modules on the data link have been lost. This fault code may be displayed with other CAN bus fault code messages.

Cause:
CAN bus communications between modules on the data link have been lost.

Possible failure modes:

1. CAN data link wiring or circuits open.
2. CAN data link wiring or circuits shorted.
3. Faulty CAN Data Link device.
4. Faulty instrument cluster.
5. Faulty ECU.

Solution:

1. Verify that the fault code is active.

   Use the Electronic Service Tool to verify that the CAN data link faults are ACTIVE.

   To check for fault codes: Start and operate the machine. Wiggle the harness to reveal an intermittent condition.

   If three or more fault codes are active, such as 1051 through 1059 or 3096, 3334, 3339 or 3358, this is an indication of a problem in the CAN bus circuit, continue with this procedure. If one or two CAN bus fault codes are active, this is an indication of an intermittent connection in the CAN circuit. Check the wiring and connectors to verify they are secure and free of damage, corrosion, abrasion or incorrect attachment.

   A. CAN bus fault codes are not recorded again and are no longer ACTIVE. OK to return the machine to service.

   B. CAN bus fault codes are present and ACTIVE. Refer to **1051-Timeout of CAN message EEC1, 5 seconds without message (55.408)**

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SYMBOLS

PRESSURE SWITCH · LAMP · MOTOR · DIODE

PRESSURE · TEMPERATURE · SPEAKER · LIGHT EMITTING DIODE (LED)

VARIABLE RESISTOR · RESISTOR · COIL

S.P. S.T. · S.P. D.T. · D.P. S.T. · D.P. D.T.

FUSE · RELAY · GROUND · BATTERY

COLOR	ABBREVIATION
BLACK	BK
BLUE	BL
LIGHT BLUE	LB
BLACK/WHITE	BK/WH
GREEN	GN
LIGHT GREEN	LG
ORANGE	OR
PINK	PK
VIOLET	VT
RED	RD
GREY	GY
TAN	TN
WHITE	WH
YELLOW	YE

WIRE SIZE CHART

Sq. mm	AWG
0.5	20
0.8	18
1.0	16
2.0	14
3.0	12
5.0	10
8.0	8

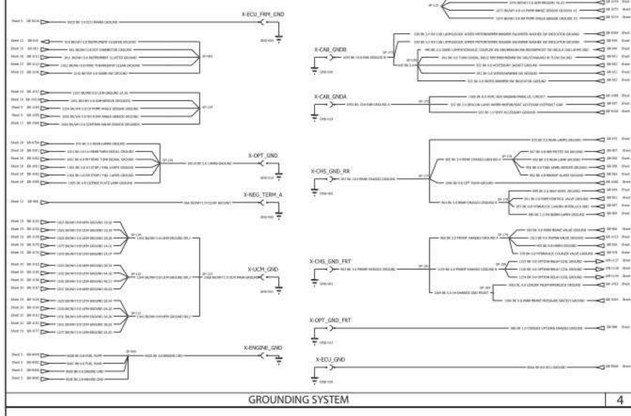
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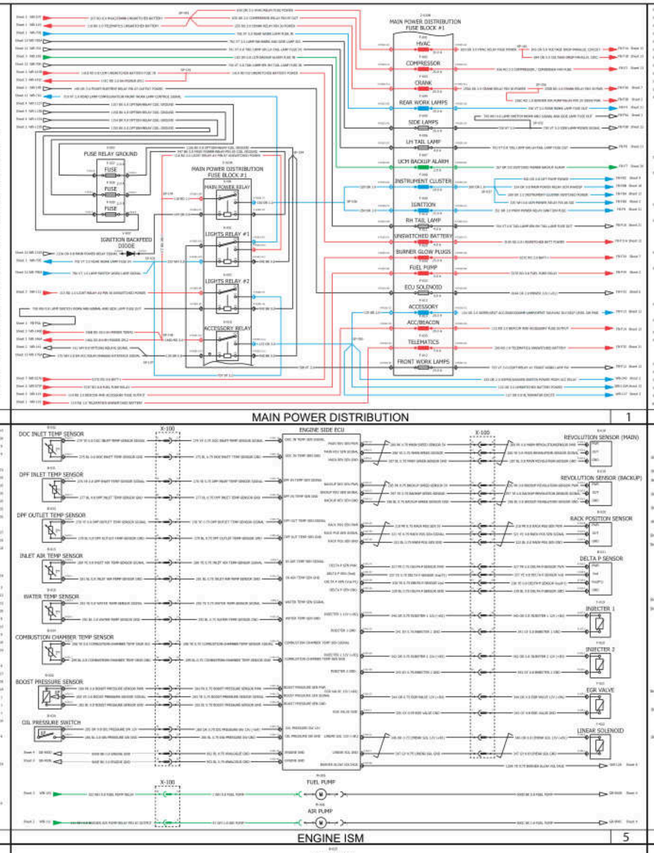
CIRCUIT DIAGRAM LEGENDS



STANDARD SYMBOL/ LEGEND

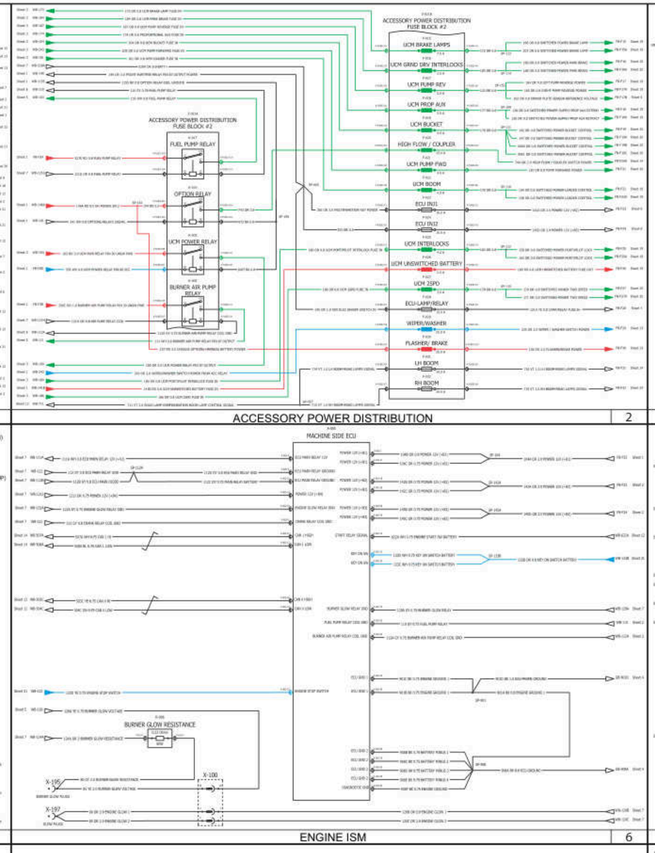


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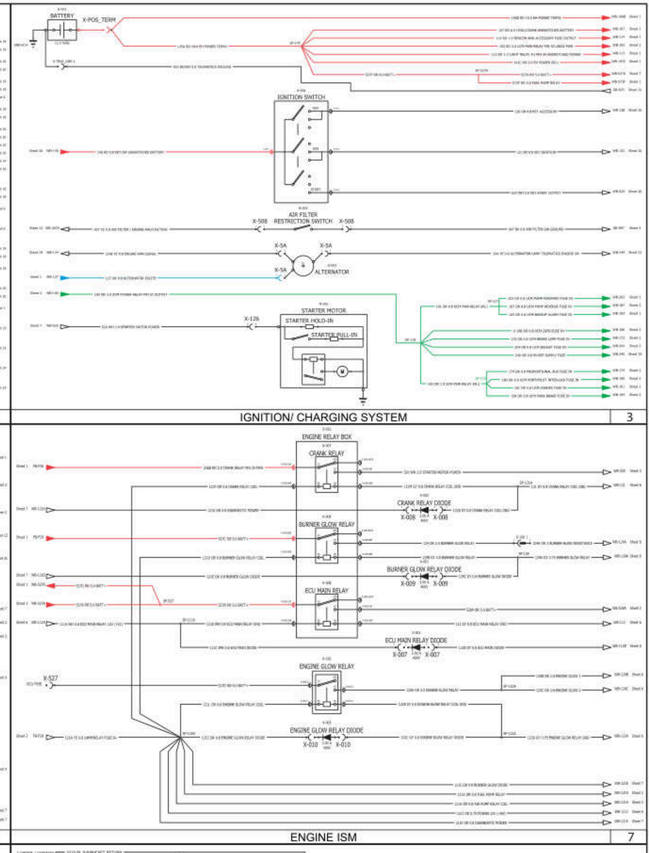
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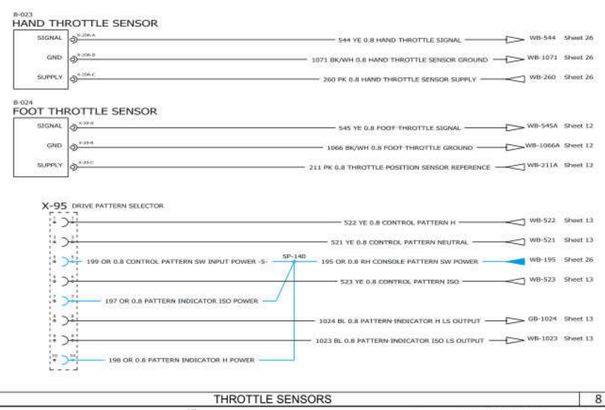
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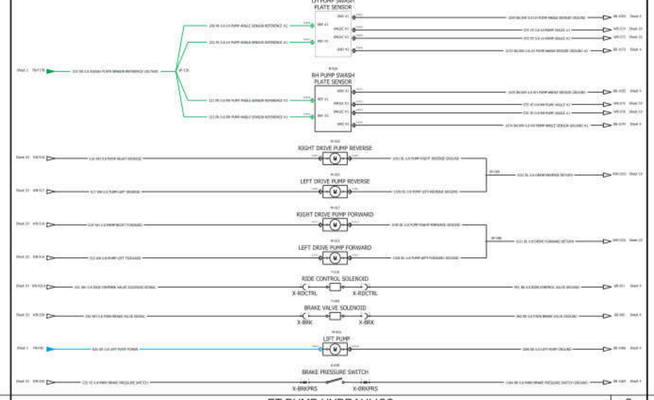


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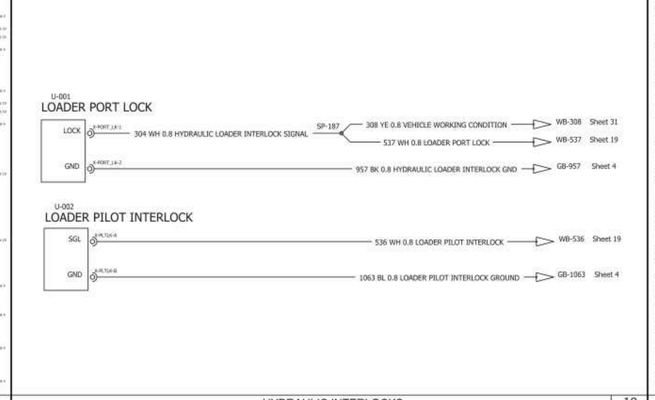
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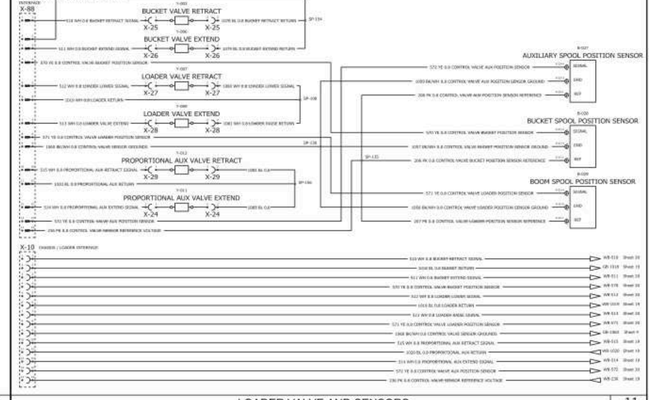
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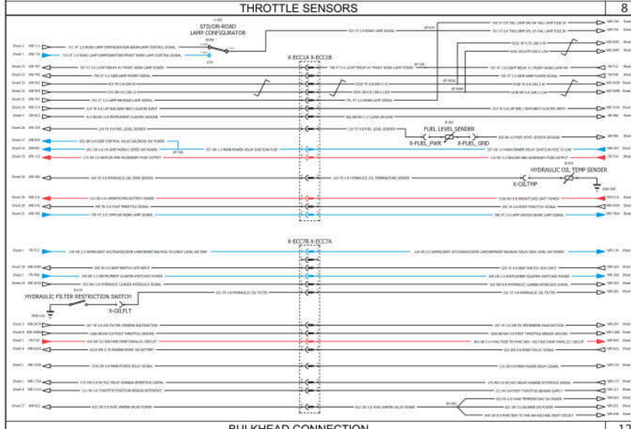
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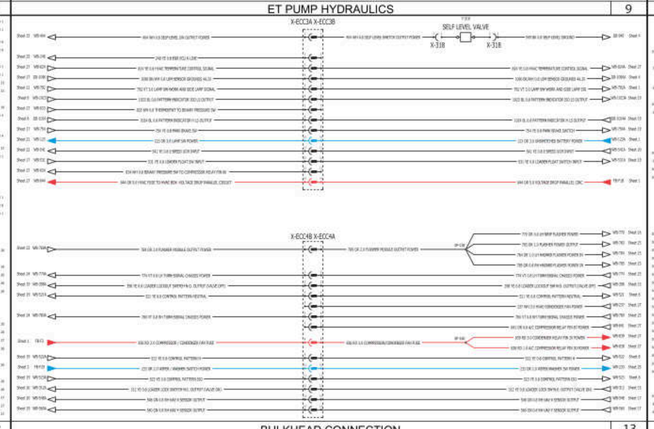
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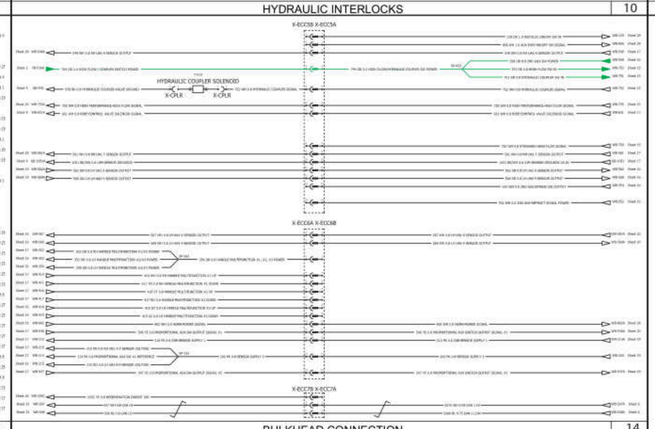
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BULKHEAD CONNECTION | 14

SR130/ SR160
ISM TIER 4 EH MACHINES
ELECTRICAL SCHEMATIC
RAC 47547358

UNSWITCHED BATTERY
MAIN POWER FUSE BLOCK 1
ACCESSORY POWER DISTRIBUTION

RAC 47547358 S1S1

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