SR220 / SR250 / SV250 / SV300
Tier 4A
Alpha Series Skid Steer Loader

SR220 PIN NDM457559 and above; SR250 PIN NCM442784 and above;
SV250 PIN NDM460776 and above; SV300 PIN NCM445399 and above

TR320 / TV380
Tier 4A
Alpha Series Compact Track Loader

TR320 PIN NCM440597 and above; TV380 PIN NCM450857 and above

SERVICE MANUAL

Part number 47540695
English
April 2014
Replaces part number 47465734

CASE CONSTRUCTION

MidWestTech | Case SR220, SR250, SV250, SV300, TR320, TV380 Tier 4A Skid Steer Loader Service Manual | Publication 47540695
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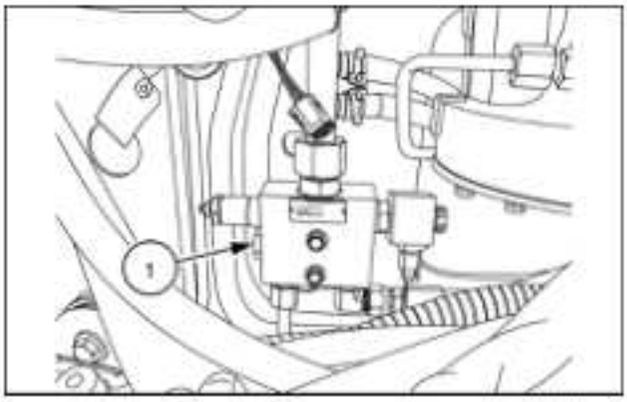
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7. If the recorded pressure is not within specification, remove the cap **(1)** on the relief valve and adjust.



3

8. Repeat steps **2** through **7** until the relief valve is within specification.

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5282-Aux Valve (Directional) - Solenoid Forward (A) Supply Short to Ground

SR220 TIER 4 [NDM457559 -]	NA Electro hydraulic controls
SR250 TIER 4 [NCM442784 -]	NA Electro hydraulic controls
SV250 TIER 4 [NDM460776 -]	NA Electro hydraulic controls
SV300 TIER 4 [NCM445399 -]	NA Electro hydraulic controls
TR320 TIER 4 [NCM440597 -]	NA Electro hydraulic controls
TV380 TIER 4 [NCM450857 -]	NA Electro hydraulic controls

Context:
Diagnostic Trouble Code 5282 has an error priority of White.
Auxiliary hydraulic functions are disabled while Diagnostic Trouble Code 5282 is active.

Cause:
The UCM has sensed that the Proportional Aux Valve Extend solenoid current is too high. The fault is active when hydraulics are enabled and solenoid output current, X-CN1B pin 33 is greater than **3 A**.

Possible failure modes:

1. Short circuit in the solenoid wiring.
2. Failure of the proportional aux extend solenoid.
3. The UCM has an internal failure.

Solution:

1. Verify that the fault code is active.

   Connect the Electronic Service Tool to the service tool connector.

   To check for fault code: Start and operate the machine.

   A. The fault code is not recorded again. OK to return the machine to service.

   B. Fault code 5282 is recorded again. Go to step **2**.

2. Verify that the wiring and connectors are free of damage.

   Inspect the **UCM** and the proportional aux solenoid connections. All connections should be secure, tight, free of corrosion, abrasion and damage.

   Inspect the harness from the **UCM** to the proportional aux solenoids. Verify that the harness is free of damage, corrosion, abrasion and incorrect attachment.

   A. The connectors are secure and the harness is free of damage. Go to step **3**.

   B. The connectors or the harness has damage. Repair or replace the harness or connectors as required. Return to step **1** to confirm elimination of fault.

3. Test the UCM.

   Turn the ignition switch OFF.

   Disconnect solenoid connector X-24.

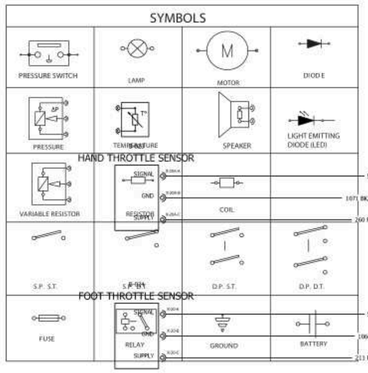
   Turn the ignition switch ON.

   Use the electronic service tool and access the fault code screen. Fault code 5282 should no longer be active. Fault code 5281 is now active.

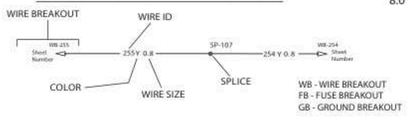
   A. Fault code 5282 is no longer active. Fault code 5281 is now active. Replace the solenoid and retest. Return to step **1** to confirm elimination of the fault.

   B. Fault code 5282 is active. Fault code 5281 did not become active. Go to step **4**.

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CIRCUIT DIAGRAM LEGENDS

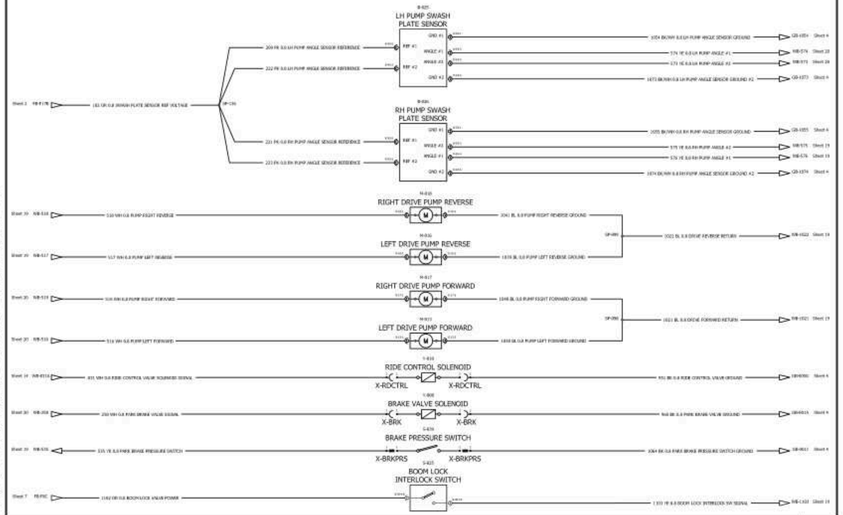


COLOR	ABBREVIATION
BLACK	BK
BLUE	BL
LIGHT BLUE	LB
BLACK/WHITE	BK/WH
GREEN	GN
LIGHT GREEN	LG
ORANGE	OR
PINK	PK
VIOLET	VT
RED	RD
GREY	GY
WHITE	WH
YELLOW	YE

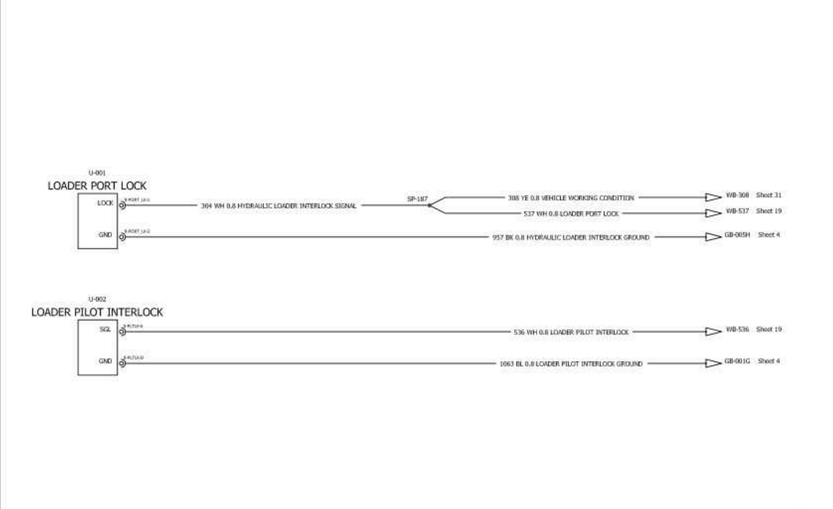
WIRE SIZE CHART	
Sq. mm	AWG
0.5	20
0.8	18
1.0	16
2.0	14
3.0	12
5.0	10
8.0	8

SUB SYSTEM DESCRIPTION	
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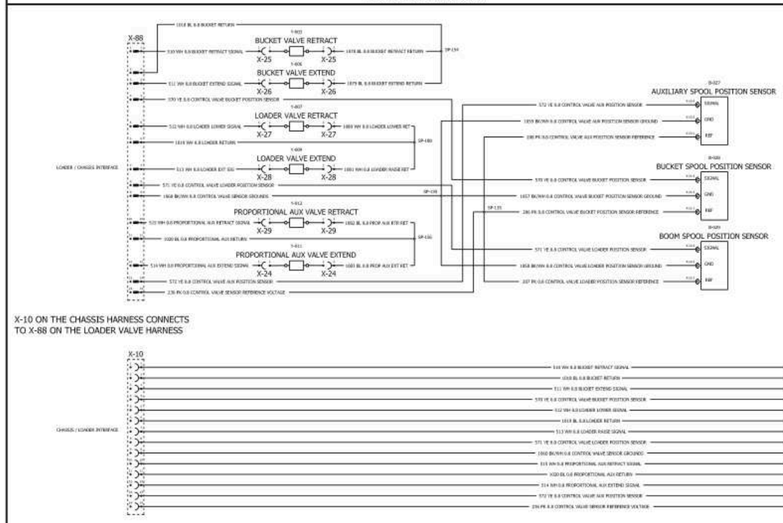
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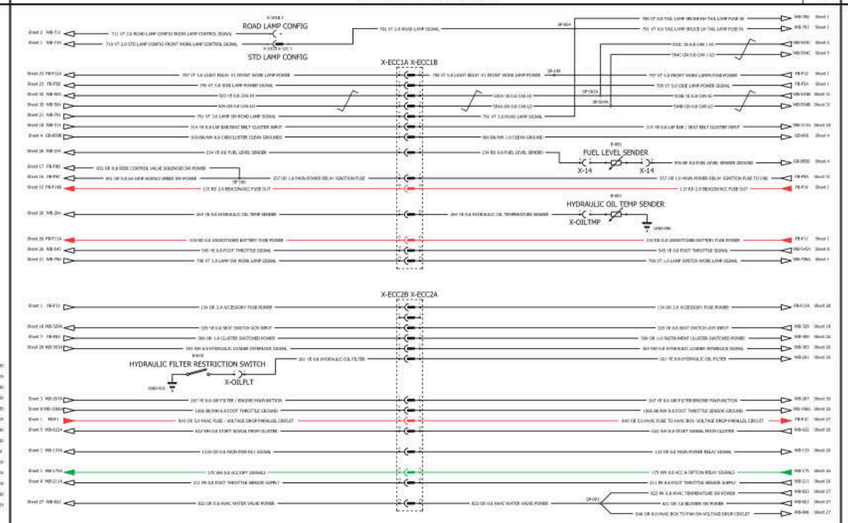
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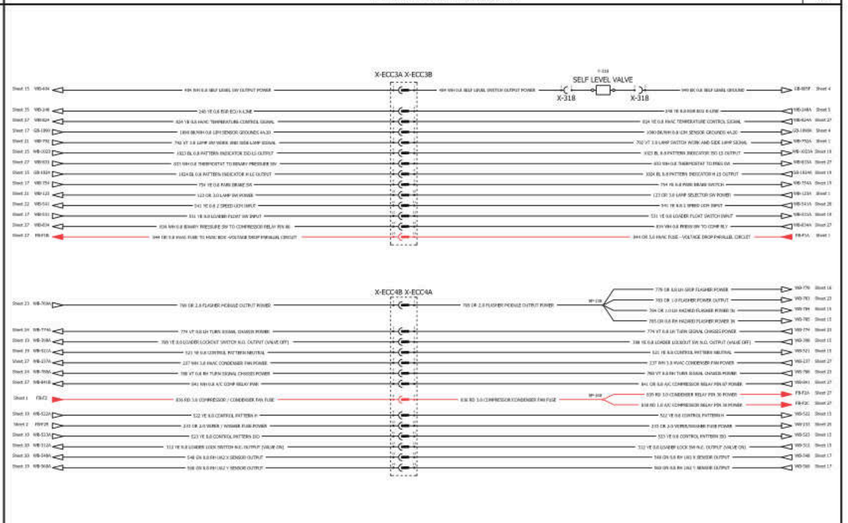
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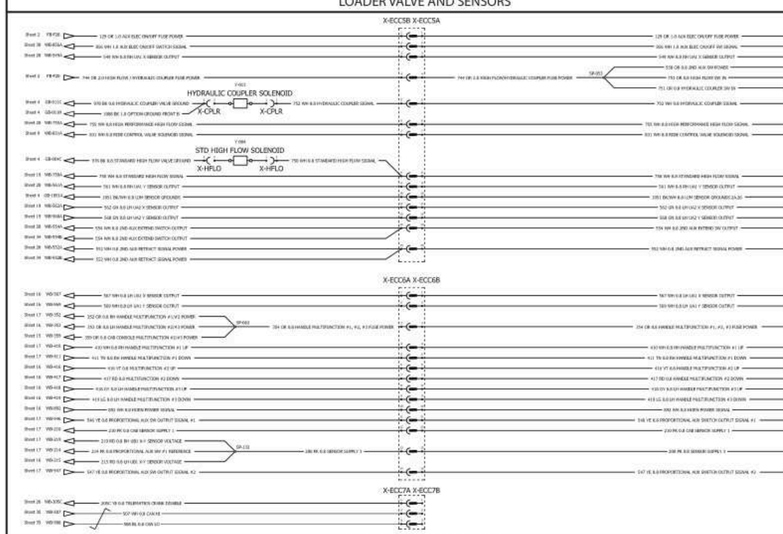
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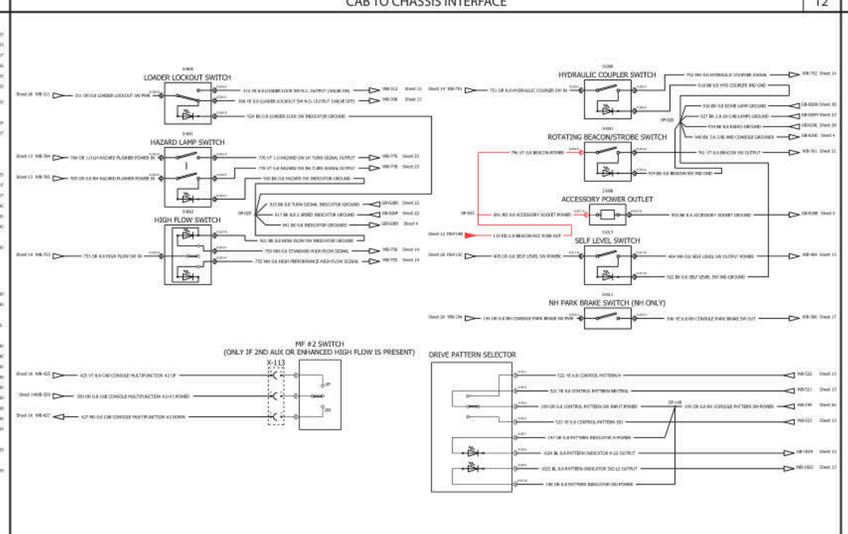
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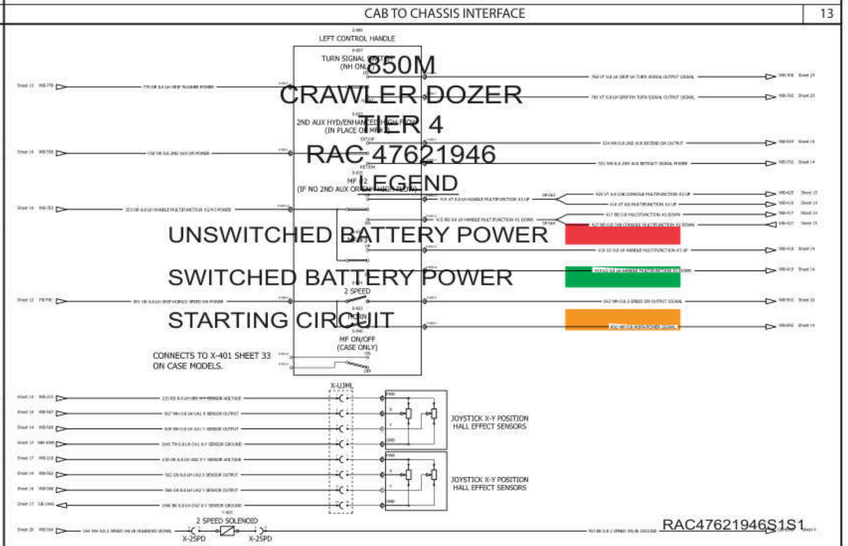
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CAB TO CHASSIS INTERFACE 14



CAB CONSOLE SWITCHES 15



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CRAWLER DOZER
2ND AUX HYD/ENHANCED HIGH FLOW
(IN PLACE OF HF #2)
RAC 47621946

LEFT HAND CONTROL HANDLE 16

RAC47621946S1S1

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