SR210 / SR240 / SV280
Tier 4B (final)
Alpha Series Skid Steer Loader

SR210 PIN NDM478026 and above; SR240 PIN NFM400756 and above; SV280 PIN NFM400877 and above

TR270 / TR310
Tier 4B (final)
Alpha Series Compact Track Loader

TR270 PIN NDM462224 and above; TR310 PIN NFM402749 and above

SERVICE MANUAL

Part number 47851948
English
May 2015
Replaces part number 47712041

CASE CONSTRUCTION

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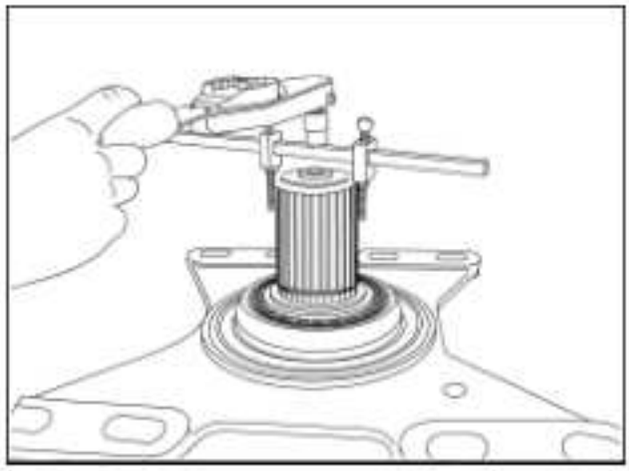
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19. Measure the rolling torque of the axle by using the rolling torque tool, part number **380003339**.
    The specification for the rolling torque is **10 - 16 N·m** (**7 - 12 lb ft**) **14 - 26 N·m** (**10 - 19 lb ft**).
20. If the rolling torque of the axle is not within specification, please repeat the disassembly and assembly procedure for this axle.



RAPH1455L07356A 14

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Wiring harnesses - Electrical schematic sheet 29 Case Front Lights

SR210 TIER 4B Final [NDM478026 -]	Electro hydraulic controls
SR240	Electro hydraulic controls
SV280	Electro hydraulic controls
TR270 TIER 4B Final [NDM462224 -]	Electro hydraulic controls
TR310	Electro hydraulic controls

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A. Fault code **5292 - Loader Auxiliary Valve (Directional) Solenoid Reverse (B) Supply Shorted To Ground** is no longer active. Fault code **5291 - Loader Auxiliary Valve (Directional) Solenoid Reverse (B) Supply Open Circuit** is now active. Replace the solenoid and retest. Return to step **1** to confirm elimination of the fault.

B. Fault code **5292 - Loader Auxiliary Valve (Directional) Solenoid Reverse (B) Supply Shorted To Ground** is active. Fault code **5291 - Loader Auxiliary Valve (Directional) Solenoid Reverse (B) Supply Open Circuit** did not become active. Go to step **4**.

4. Measure the resistance of the solenoid wire to chassis ground.

   Turn the ignition switch OFF.

   Disconnect UCM connector X-CN1A.

   Disconnect solenoid connector X-29.

   Measure the resistance between **CN1A pin 24** and chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

   Measure the resistance between **CN1A pin 22** and chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

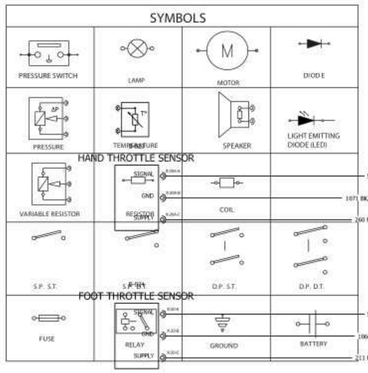
   Measure the resistance between **CN1A pin 24** and **CN1A pin 22**. The resistance should be greater than **20,000 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

   A. The resistance is greater than **20,000 Ω**. Temporarily replace the UCM and retest. Return to step **1** to confirm elimination of the fault.

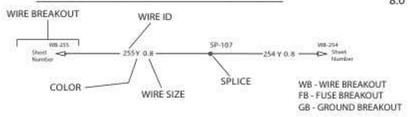
   B. The resistance is less than **20,000 Ω**. There is a short circuit in the wiring. Repair or replace the harness as required. Return to step **1** to confirm elimination of the fault.

Wiring harnesses - Electrical schematic sheet 19 Unit Control Module (55.100.DP-C.20.E.19)
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CIRCUIT DIAGRAM LEGENDS

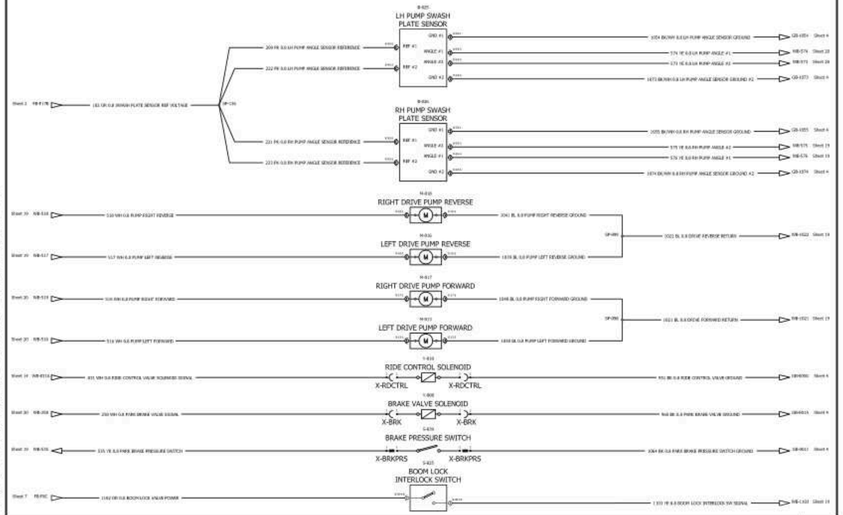


COLOR	ABBREVIATION
BLACK	BK
BLUE	BL
LIGHT BLUE	LB
BLACK/WHITE	BK/WH
GREEN	GN
LIGHT GREEN	LG
ORANGE	OR
PINK	PK
VIOLET	VT
RED	RD
GREY	GY
WHITE	WH
YELLOW	YE

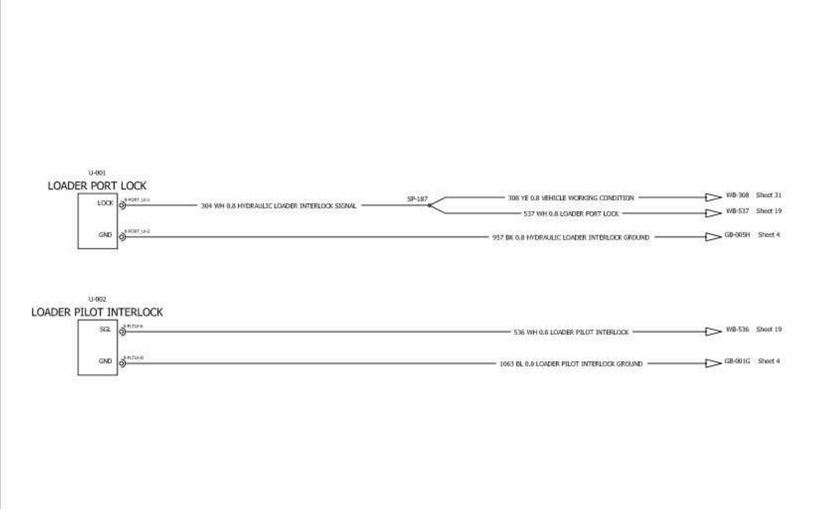
WIRE SIZE CHART	
Sq. mm	AWG
0.5	20
0.8	18
1.0	16
2.0	14
3.0	12
5.0	10
8.0	8

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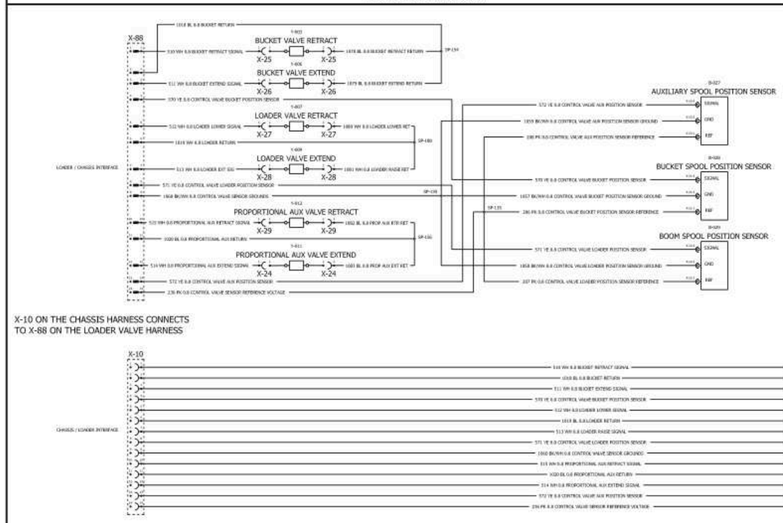
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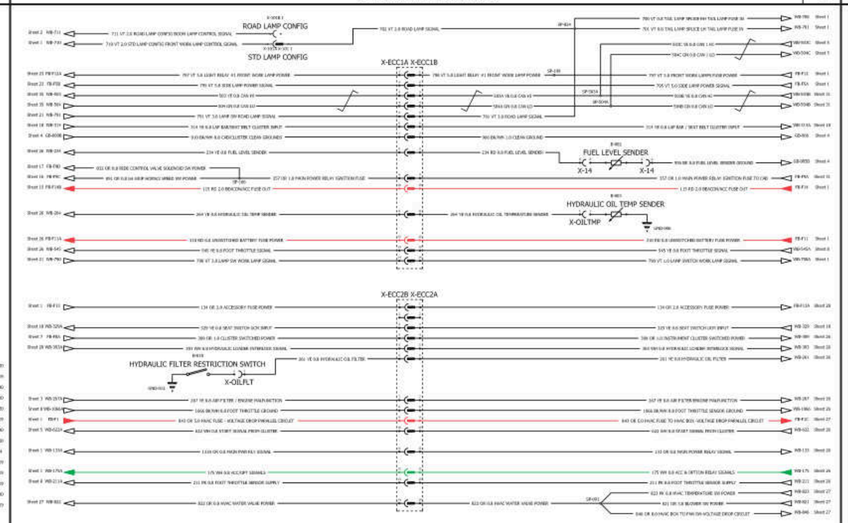
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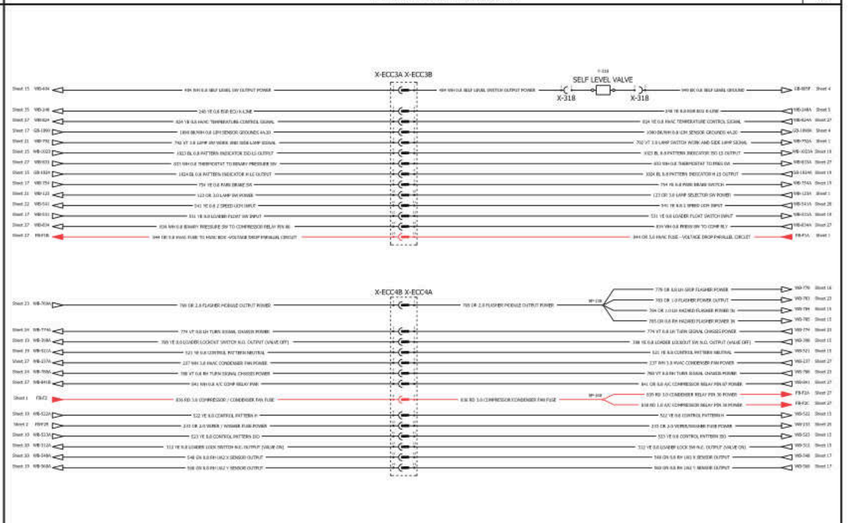
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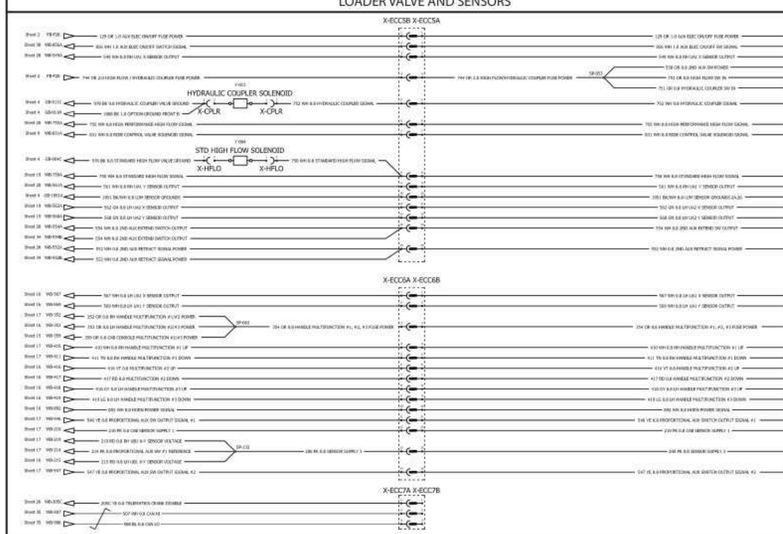
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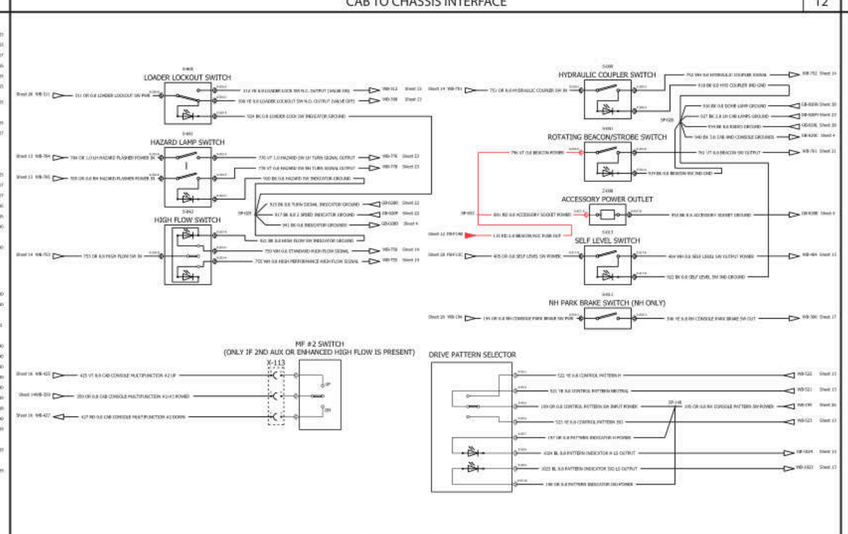
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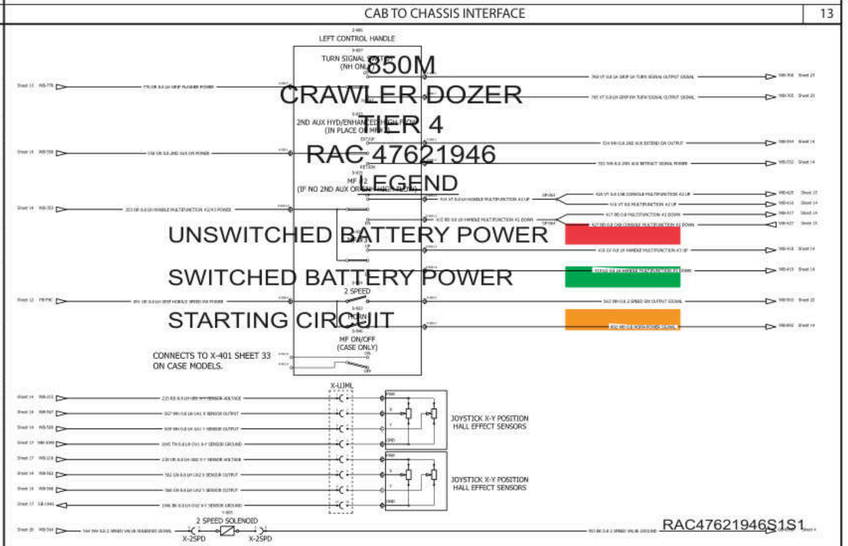
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CAB TO CHASSIS INTERFACE 14



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