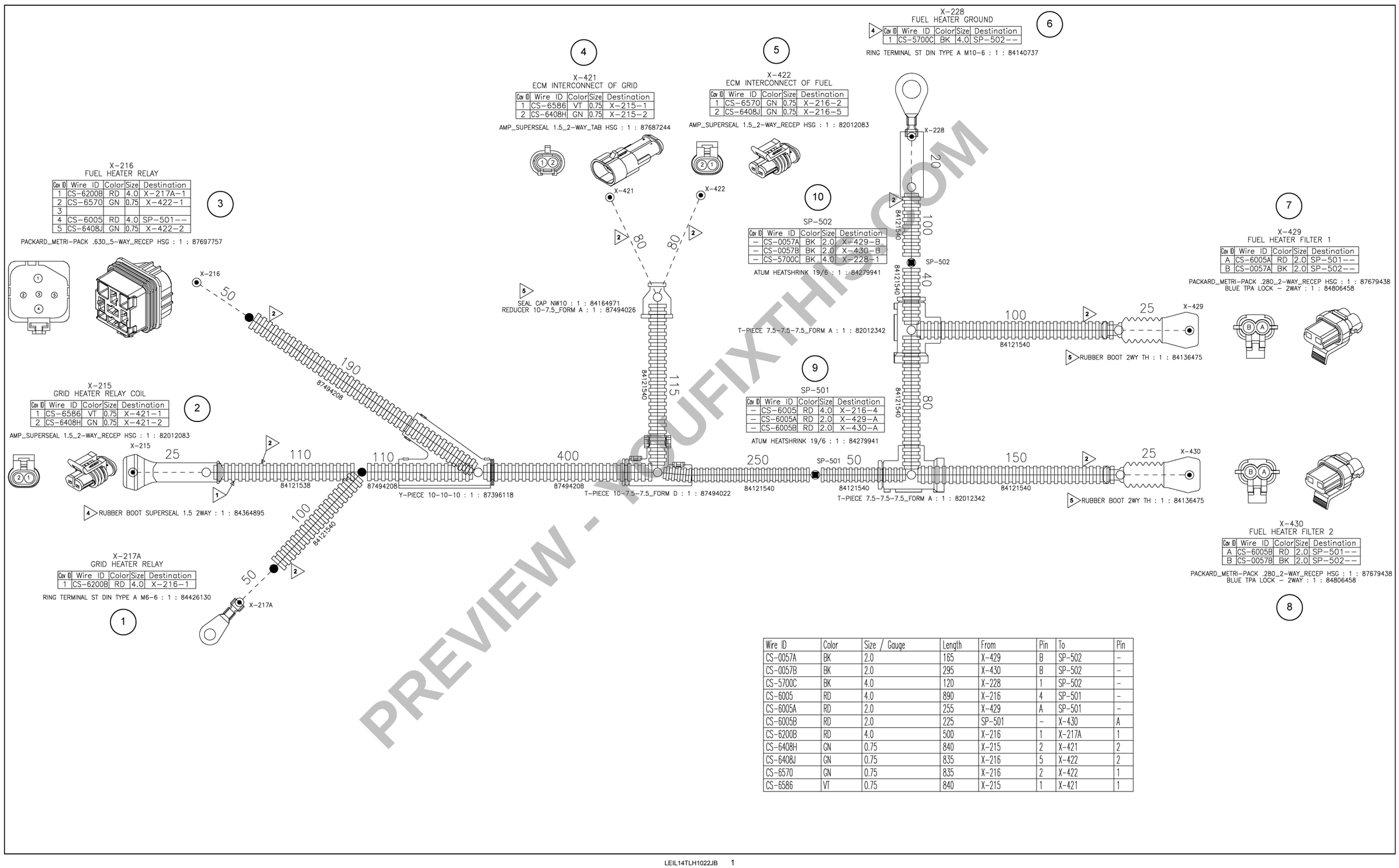
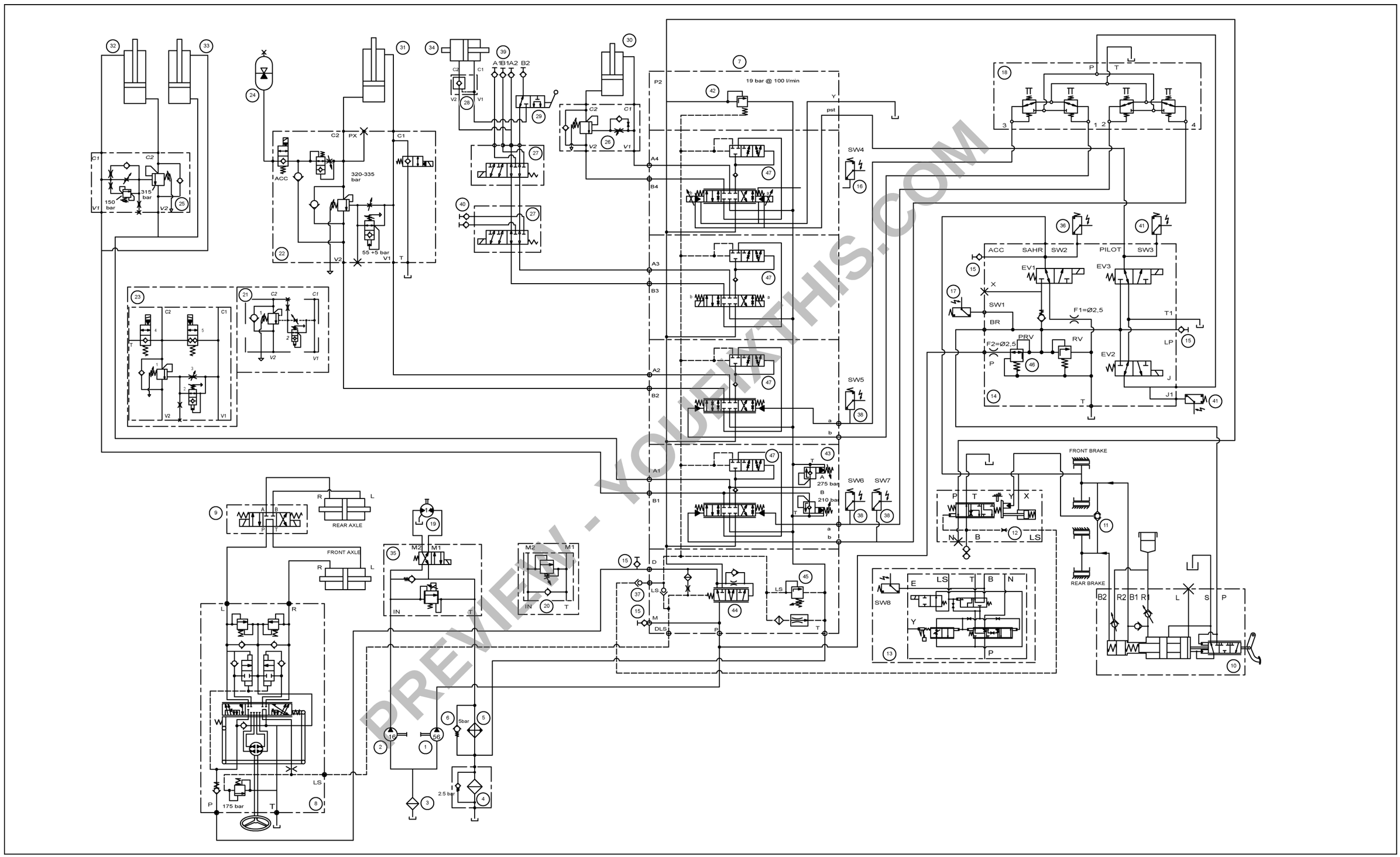


Wire ID	Color	Size / Gauge	Length	From	Pin	To	Pin
CS-0057A	BK	2.0	165	X-429	B	SP-502	–
CS-0057B	BK	2.0	295	X-430	B	SP-502	–
CS-5700C	BK	4.0	120	X-228	1	SP-502	–
CS-6005	RD	4.0	890	X-216	4	SP-501	–
CS-6005A	RD	2.0	255	X-429	A	SP-501	–
CS-6005B	RD	2.0	225	SP-501	–	X-430	A
CS-6200B	RD	4.0	500	X-216	1	X-217A	1
CS-6408H	GN	0.75	840	X-215	2	X-421	2
CS-6408J	GN	0.75	835	X-216	5	X-422	2
CS-6570	GN	0.75	835	X-216	2	X-422	1
CS-6586	VT	0.75	840	X-215	1	X-421	1

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Item	Description	Tightening torque
1	Directional control valve	
2	Connector, 3/4 ORFS-ORB 3/4	**93 - 128 N·m** (**68.6 - 94.4 lb ft**)
3	Elbow 90 ADJ Jump 1.0 ORFS ORB 3/4	**93 - 128 N·m** (**68.6 - 94.4 lb ft**)
4	Nipple	**151 - 174 N·m** (**111.4 - 128.3 lb ft**)
5	Elbow 45 ADJ —8 ORFS x 3/4 - 16 ORB	**49 - 57 N·m** (**36.1 - 42.0 lb ft**)
6	Tilt hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
7	Tilt hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
8	Lift hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
9	Lift hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
10	Auxiliary hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
11	Auxiliary hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
12	Telescopic hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
13	Telescopic hydraulic tube	**117 - 128 N·m** (**86.3 - 94.4 lb ft**)
14	Tube clamp	
15	Tube clamp	
16	Hexagonal screw **M10 x 30**	
17	Manifold	
18	Bolt **M8 x 80**	
19	Hydraulic hose	**34 - 40 N·m** (**25.1 - 29.5 lb ft**)
20	Hydraulic hose	**34 - 40 N·m** (**25.1 - 29.5 lb ft**)
21	Connector, 3/8 ORFS-ORB 3/8	**29 - 40 N·m** (**21.4 - 29.5 lb ft**)
22	Connector, STR THD 12 mm ORFSxM22 ORB	**70 N·m** (**51.6 lb ft**)
23	Connector, STR THD 10 mm ORFSxM18 ORB	**49 N·m** (**36.1 lb ft**)
24	Manifold	
25	Elbow 90 ADJ 8 mm ORFSxM14 ORB	**31.5 N·m** (**23.2 lb ft**)
26	Connector, STR THD 8 mm ORFSxM14 ORB	**31.5 N·m** (**23.2 lb ft**)
27	Hydraulic hose	**34 - 40 N·m** (**25.1 - 29.5 lb ft**)
28	Connector, STR THD 8 mm ORFSxM14 ORB	**31.5 N·m** (**23.2 lb ft**)
29	Hydraulic hose	**34 - 40 N·m** (**25.1 - 29.5 lb ft**)
30	Hexagonal screw **M6 x 75**	
31	Bracket	
32	Washer, 9x21x1.6 mm	
33	Bolt, **M8 x 35**	**31.5 - 47.5 N·m** (**23.2 - 35.0 lb ft**)
34	Connector, 1/34 ORFS-ORB 3/8	**29 - 40 N·m** (**21.4 - 29.5 lb ft**)
35	Connector, STR 37D 9/16–18 ORFS-ORBxM14x1.5	**31.5 N·m** (**23.2 lb ft**)
36	Washer, 11x24x2.0 mm	
37	Bolt, **M10 x 45**	
38	L-Joint 13/16”-16 OERFS - F13/16	**52 - 57 N·m** (**38.4 - 42.0 lb ft**)
39	Diagnostic coupling	**29 - 40 N·m** (**21.4 - 29.5 lb ft**)
40	Connector	**29 - 40 N·m** (**21.4 - 29.5 lb ft**)
41	Elbow **90 °**	**14 - 16 N·m** (**10.3 - 11.8 lb ft**)
42	Plug	**70 N·m** (**51.6 lb ft**)
43	Quick coupling male	**45 N·m** (**33.2 lb ft**)
44	Plug for quick coupling	
45	Connector, STR THD 10 mm ORFSxM16 ORB	**38.5 N·m** (**28.4 lb ft**)
46	Hydraulic hose	
47	Switch pressure **5 bar** (**72.5 psi**)	**20 - 28 N·m** (**14.8 - 20.7 lb ft**)
48	O-ring	
49	Hydraulic hose	**52 - 57 N·m** (**38.4 - 42.0 lb ft**)
50	Elbow 90 AJD 12mm ORFSx1/2 G	**52 - 57 N·m** (**38.4 - 42.0 lb ft**)
51	Membrane reservoir	
52	Adapter, **M10 x 1**	**12 - 14 N·m** (**8.9 - 10.3 lb ft**)
53	Connector, STR THD 6 mm ORFSxM10 ORB	**24.5 N·m** (**18.1 lb ft**)
54	Adapter, 9/16–18 UNF	**20 - 28 N·m** (**14.8 - 20.7 lb ft**)
55	Fitting	**29 - 40 N·m** (**21.4 - 29.5 lb ft**)

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Consumables

Engine		
	Type of oil	**NEW HOLLAND AMBRA MASTERGOLD™ HSP ENGINE OIL**
		For cold climate: API-CH-4 ACEA E5 (SAE 0W-40)
	Capacity (with filter change)	**12 l** (**3.2 US gal**)
Cooling system		
	Type of oil	**NEW HOLLAND AMBRA AGRIFLU** or **NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT**
	System capacity	**24 l** (**6.3 US gal**)
Fuel system		
	System capacity	**140 l** (**37 US gal**)
Hydraulic system		
	Type of fluid	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**
	Total system capacity	**130 l** (**34.3 US gal**)
Transmission		
	Type of oil	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**
	Total system capacity	approximately **14 L** (**3.7 US gal**)
	Transfer box	**1.2 - 1.6 L** (**0.3 - 0.4 US gal**)
Axles		
	Type of oil	**NEW HOLLAND AMBRA TRX 80W-140**
	Front and rear axle	**7.5 - 8.5 L** (**2 - 2.2 US gal**)
	Wheel reduction gear (each) front and rear	**0.7 - 0.9 L** (**0.2 - 0.0 US gal**)
Brakes		
	Type of oil	**NEW HOLLAND AMBRA BRAKE LHM**
	Quantity	**1 l** (**0.3 US gal**)
Tank of Urea (**DEF/ADBLUE®**)		
	Type of fluid	**DEF/ADBLUE®** SPEC ES-B5001
	Capacity	**32 l** (**8.4 US gal**)

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Warning indicators, alarms, and instruments - Service instruction - Troubleshooting

Drive controls

Fault Code	Vehicle	Warning Level	Condition	Possible Cause	Action/Testing
2059	LM6.32 LM7.35 LM9.35	2	Shuttle lever disagreement	Forward, Reverse and Neutral inputs combination wrong	Verify connector
				Wiring or electrical fault (SC2Vbatt)	Verify shutlle lever outputs signal
					Verify gear Up and Gear Down push button
2620	LM6.32 LM7.35 LM9.35	2	Shuttle Forward Input out of specified range	Forward, value outside validity range	Verify if shuttle FW signal level is in the range
				Wiring or circuit fault/shorted (SC2GND or SC2Vbatt)	Verify connector
2621	LM6.32 LM7.35 LM9.35	2	Shuttle Reverse Input out of specified range	Value outside validity range	Verify if shuttle REV signal level is in the range
				Wiring or circuit fault/shorted (SC2GND or SC2Vbatt)	Verify connector
2625	All models	2	Gear Combination failure	Wiring or electrical fault on CMB signals (SC2Vbatt, or SC2GND, or Low power)	Verify if the harness and connectors are damaged
					Verify output signal level
					Verify power fuse (F-001)
2627	All models	2	Reverse Command Failure	Wiring or electrical fault (OC, or SC2Vbatt, or SC2GND, or Low power) on KR CMB output	Verify if the harness and connectors are damaged
					Verify output signal level
					Verify power fuse (F-001)
2628	All models	2	Neutral Command Failure	Wiring or electrical fault (OC, or SC2Vbatt, or SC2GND, or Low power) on KN CMB output	Verify if the harness and connectors are damaged
					Verify output signal level
					Verify power fuse (F-001)
2630	All models	2	Forward Command Failure	Wiring or electrical fault (OC, or SC2Vbatt, or SC2GND, or Low power) on KF CMB output	Verify if the harness and connectors are damaged
					Verify if shuttle lever or joystick push button are damaged
					Verify power fuse (F-001)
2631	LM6.35 LM7.42	2	Forward/ Reverse input disagreement, outside of admitted range	Forward, Reverse inputs combination wrong	Verify connector
				Wiring or electrical fault	Verify joystick FW and REV outputs signal on Joystick
2632	LM6.35 LM7.42	2	Neutral input disagreement, outside of admitted range	Neutral Switch broken	Verify connector
				Wiring or electrical fault	Verify N switch outputs signal
2633	LM6.35 LM7.42	2	Direction input disagreement, invalid pattern	Direction Switches broken	Verify connector
				Wiring or electrical fault	Verify joystick FW and REV output signals on
2634	LM6.35 LM7.42	2	Gear input disagreement, outside admitted range	Neutral Switch broken	Verify connector
				Wiring or electrical fault	Verify N switch outputs signal
2930	All models	4	Error on initialization ZF serial line library	UCM serial driver corrupted	UCM re-programming
					UCM replacement

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Air conditioning - Service instruction - Troubleshooting

NOTICE: *in the event of compressor failure, replace the unit together with the expansion valve and the receiver/dryer, having first flushed out the system with a suitable cleaning fluid.*

Problem	Possible cause	Correction
Fan motor does not work	Fuse blown	Check the fuse of the air conditioning system and replace the fuse if necessary.
	Electrical wire broken or not connected	Connect properly or check the ground connection and other connections of the fan motor. Repair the wire if necessary.
	Restore wire broken	Check the conductivity of the resistor wire with a tester. If there is no conductivity, the wire is broken. Replace the wire.
	Fan motor switch	Select On and speeds 1, 2 and 3 in sequence, if there are no response, replace the switch.
	Fan motor	Check the two main conductors of the fan motor with a tester, If there is no conductivity, the fan motor is faulty. Replace the fan motor.
Fan motor works but the air flow is insufficient	Evaporator air inlet obstructed	Inspect the evaporator air inlet, remove the obstruction and clean.
	Air leak	Check the tightening of the fittings.
	Thermostat faulty	Check for ice deposits on the evaporator. Remove the deposits.
		Check the thermostat with a tester. Replace if necessary.
Cooling inadequate, even with sufficient air flow and with the compressor operating	Low level of refrigerant in the system	Check the presence of air bubbles with a magnifying glass. The flow appears cloudy. There is a little difference of temperature between the low and the high pressure circuits. Repair any leaks and recharge the refrigerant to the correct level.
	Too much refrigerant in the system	Pressure in the high pressure circuit is high, and even if the condenser is cooled with water, no air bubbles are seen when viewing the flow through a magnifying glass. Discharge a small amount of refrigerant, until air bubbles can be seen in the flow periodically.

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Engine - General specification

Characteristics	NEF (New Engine Family), 4 cylinder, emission compliant to Tier4 specification
	Direct Injection – High Pressure
	Common Rail System
	Turbocharged
	Full flow engine oil filter
	Pre-fuel filter with water separator
	Aspirated air cleaner – Replaceable dry type with radial seal
	Muffler – Selective Catalyst Reducer (SCR)
	Fuel Tank – capacity **140 L**
	DEF/ADBLUE® Tank- capacity **32 L**
	Radiator with expansion bottle
	Antifreeze: - **37 °C**
	Throttle, foot: - Self-adjusting belt tensioner - Balanced Engine
Bore and stroke	**104 mm** (**4.09 in**) x **132 mm** (**5.20 in**)
Displacement	**4.5 L** (**274 in³**)
Compression Ratio	17:1
Number of cylinders (firing order)	4 (1-3-4-2)
Injection pressure pump type	Bosch Cp 3.3
Revolution (from Flywheel side)	Counterclockwise

Power

	LM6.32 – LM7.35 – LM9.35	LM6.35 – LM7.42
Rated Power	**81 kW** at **2200 RPM**	**96 kW** at **2200 RPM**
Peak Power	**89 kW** at **1800 RPM**	**105 kW** at **1900 RPM**
Peak Torque	**498 N·m** at **1500 RPM**	**590 N·m** at **1500 RPM**

Engine speeds

Rated speed – full load	**2200 RPM**
Low Idle speed at no load	**1025 - 1075 RPM**
High Idle speed at no load (Engine not installed)	**2280 - 2380 RPM**

Stall

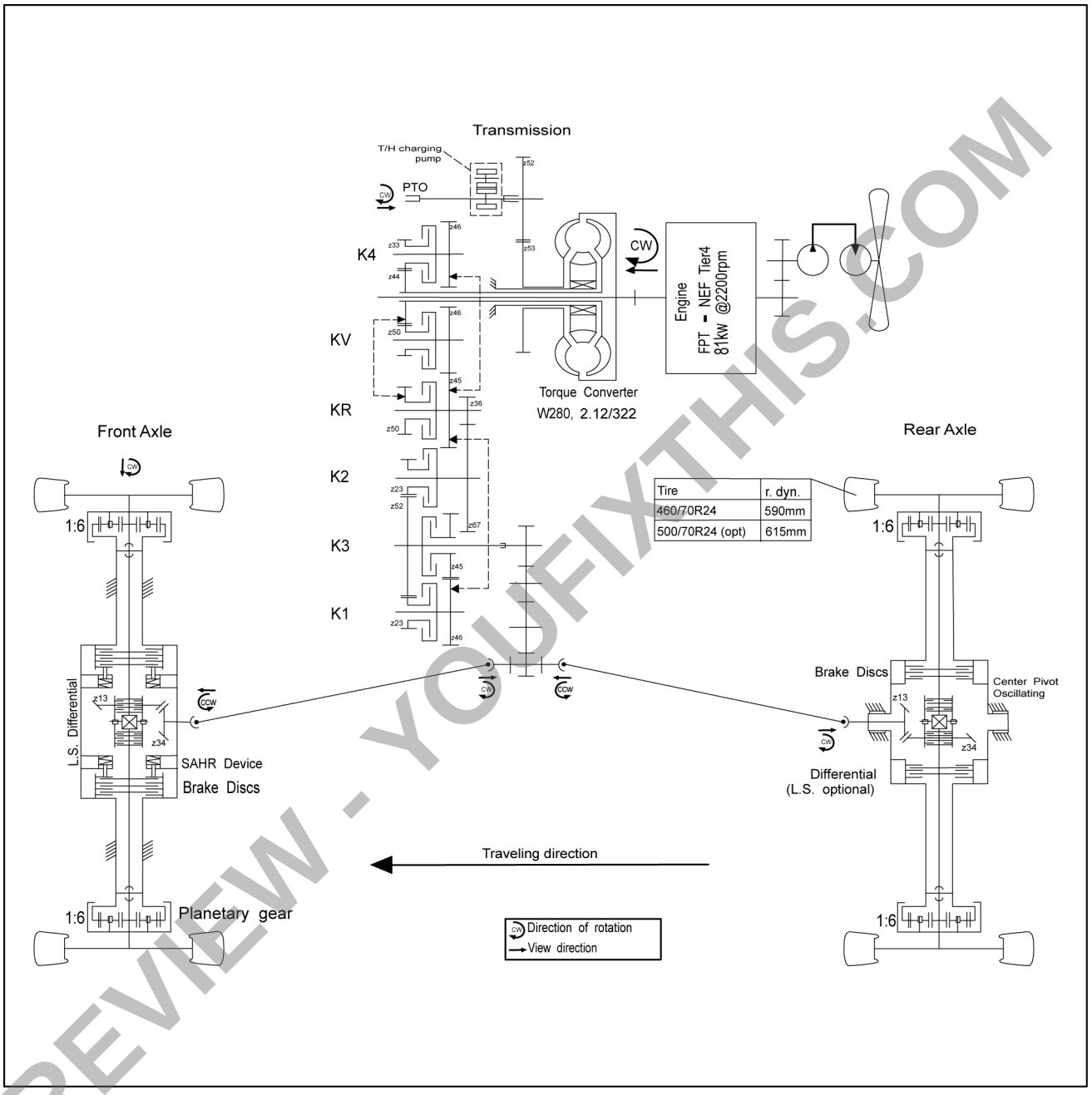
	LM6.32 – LM7.35 – LM9.35	LM6.35 – LM7.42
Torque Converter Stall	**1960 - 2020 RPM**	**2110 - 2170 RPM**
Hydraulic Stall	**2200 - 2300 RPM**	**2250 - 2350 RPM**
Combined Stall	**1570 - 1630 RPM**	**1820 - 1880 RPM**

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Powershift transmission - Hydraulic schema

LM6.32, LM7.35 and LM9.35 models

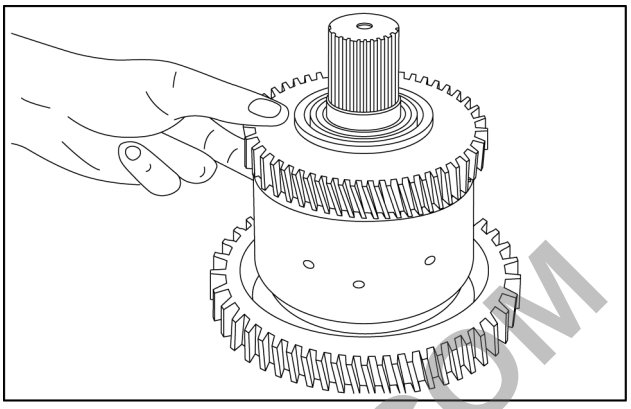


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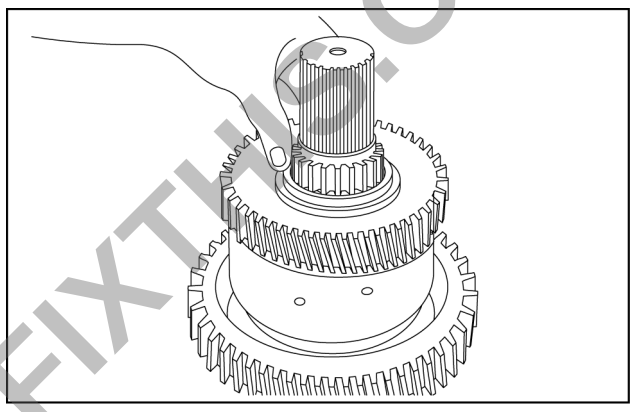
Align the discs radially and centrally.
Introduce the disc carrier, until all the inner discs are lined up.



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Insert the outer roller cage.

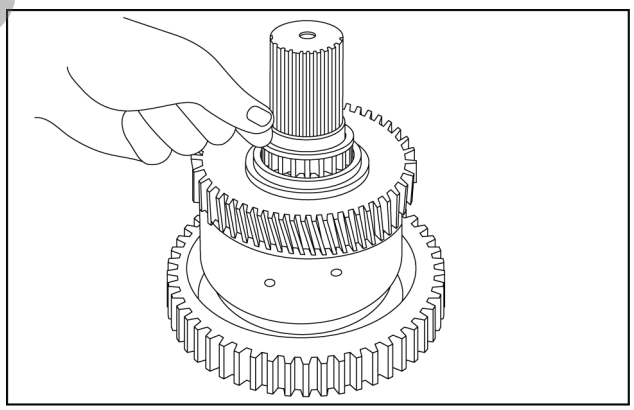
NOTICE: *pay attention to the installation position of the roller cage – great/small roller cage diameter.*



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Align the guard plate.

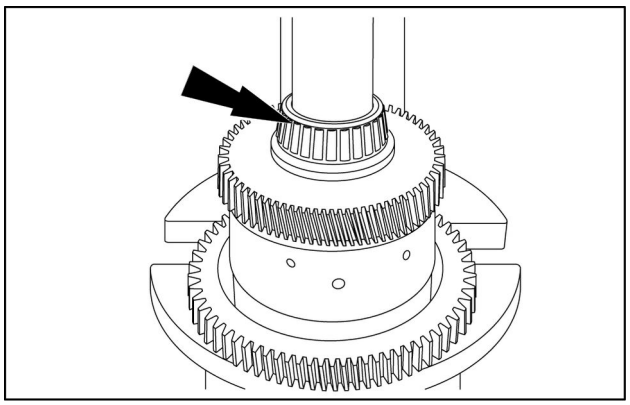
NOTE: *the assembly is correct if the guard plate does not protrude beyond the locating face of the bearing inner ring.*



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Press the bearing inner ring against shoulder.

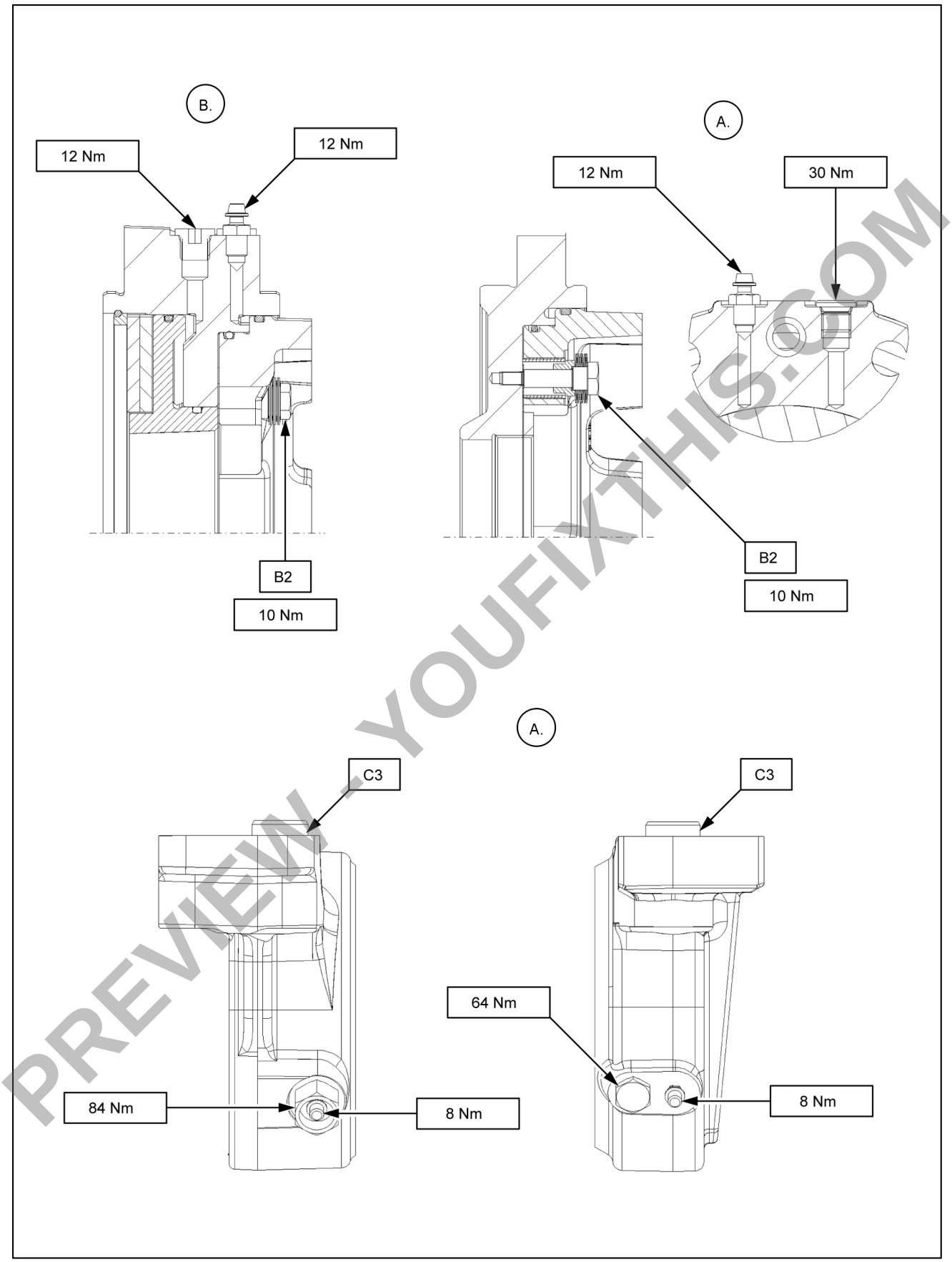
NOTICE: *pay attention to installation position and bearing assignment.*



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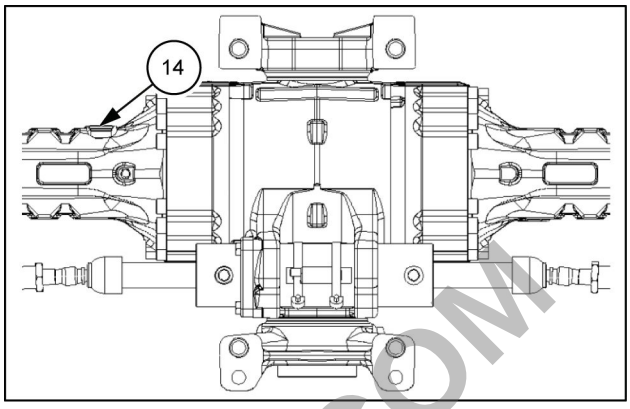
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A. Only for rear axle

B. Only for front axle

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Check the differential oil level from the oil fill plug **(14)** and fill up if necessary.
Reassemble the plug **(14)** to the prescribed torque.



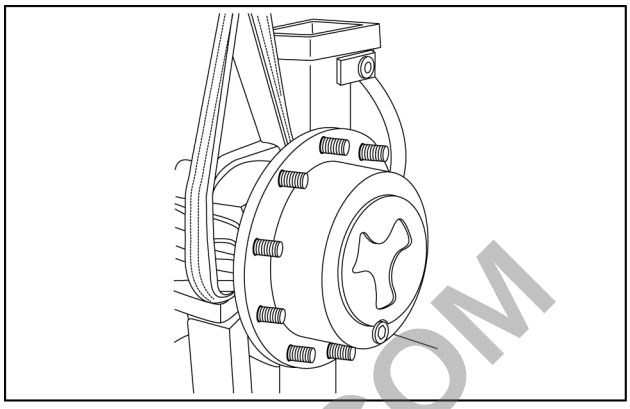
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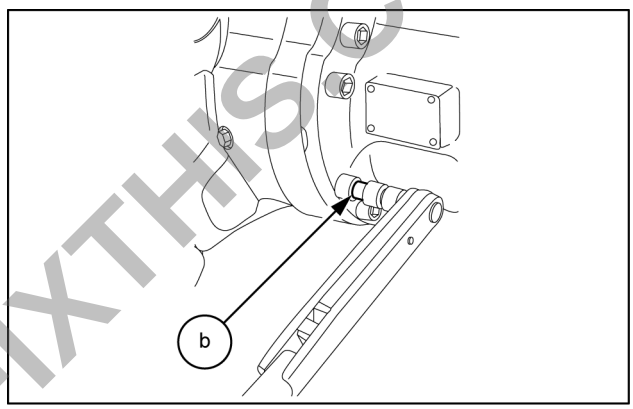
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Unscrew and remove the fastening bolts **(b)**.

NOTICE: *position the axle on supports fitted to hold either the central body and the axle housing, even after their disjunction, or secure every group to a lifting device with ropes or belts.*

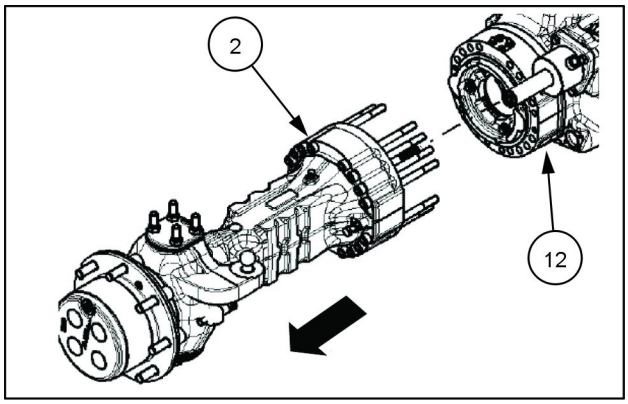


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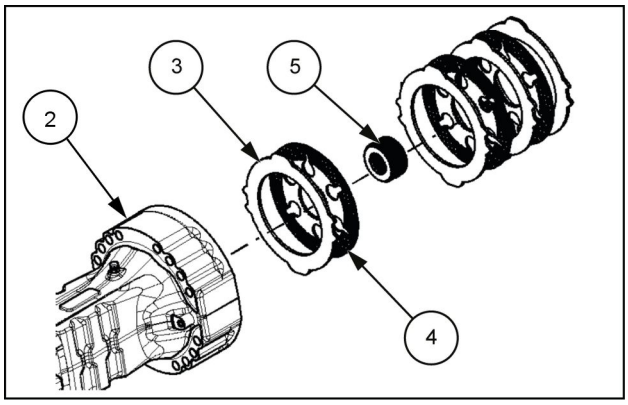
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Remove the axle housing **(2)** from the brake cylinder **(12)**.



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Remove the brake components from the axle housing **(2)**: the brake counterdisks **(3)** the brake disks **(4)** and the brake disk carrier gear **(5)**.



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56	Adapter, 1/4 GAS	**24.5 N·m** (**18.1 lb ft**)
57	Connector, 9/16–18 ORFS-ORB 1/4–19 BSPP ORB	**24.5 N·m** (**18.1 lb ft**)
58	Hydraulic hose	**24.5 N·m** (**18.1 lb ft**)
59	Hydraulic hose	**24.5 N·m** (**18.1 lb ft**)
60	Hydraulic hose	**24.5 N·m** (**18.1 lb ft**)
61	Hydraulic hose	**24.5 N·m** (**18.1 lb ft**)
62	Adapter, 9/16–18 UNF	**24.5 N·m** (**18.1 lb ft**)
63	Pressure switch **12 bar** (**174 psi**)	**20 - 28 N·m** (**14.8 - 20.7 lb ft**)
64	Adapter, **M10 x 1**	**24.5 N·m** (**18.1 lb ft**)
65	Pressure switch **18 bar** (**261 psi**)	**12 - 14 N·m** (**8.9 - 10.3 lb ft**)
66	Adapter, 1/4 GAS	**24.5 N·m** (**18.1 lb ft**)
67	Pressure switch **5 bar** (**72 psi**)	**24.5 N·m** (**18.1 lb ft**)
68	Diagnostic quick coupling	**29 - 40 N·m** (**21.4 - 29.5 lb ft**)
69	Bracket	**52 - 57 N·m** (**38.4 - 42.0 lb ft**)
70	Nut, **M33 x 1.5**	
71	Washer, 9x16x1.6 mm	
72	Bolt, **M8 x 25**	**24.5 - 33.2 N·m** (**18.1 - 24.5 lb ft**)
73	Black cable tie 277 mm	

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Telescopic arm hydraulic system - Component localisation

LM 6.32	

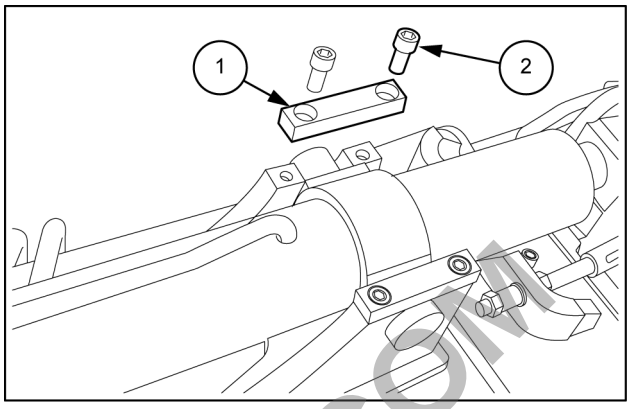
Boom (complete)

Item	Description	Tightening torque
1	Arm first section	
2	Arm second section	
3	Twin hoses for auxiliary hydraulics	
4	Twin hoses for tilt function	
5	Telescopic cylinder	
6	Tilt cylinder	
7	Telescopic cylinder body pin	
8	Retaining ring, **45 mm** (**1.8 in**)	
9	Telescopic cylinder rod pin	
10	Boom frame pin	
11	Washer, 15x45x6	
12	Bolt, M14x40	**227 N·m** (**167.4 lb ft**)
13	Spacer	
14	Washer, 13.5x28x4	
15	Bolt **M12 x 30**	**57.3 N·m** (**42.3 lb ft**)
16	Cover plate	
17	Washer, 9x16x1.6	
18	Bolt **M8 x 35**	**28.8 N·m** (**21.2 lb ft**)
19	Carrier pin	
20	Linkage pin	
21	Tilt body pin	
22	Shim	
23	Shim	
24	Shim	
***NOTE:** apply also **LOCTITE® 243™** for the installation of the bolts **(12)** and **(15)**.*		

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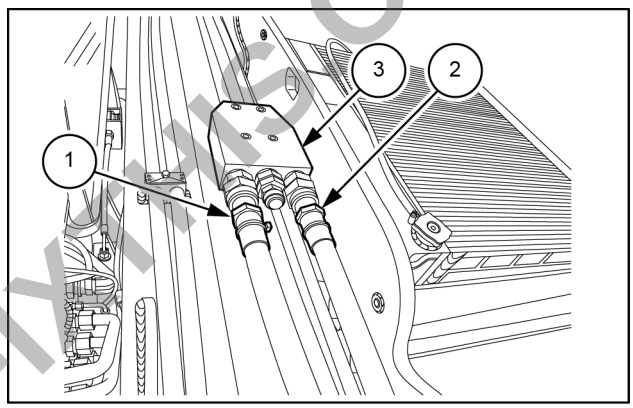
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Install the securing screws **(2)** to install the supports **(1)** to the front of the telescopic cylinder.
Tightening torque of the screws **(2)**: **100 N·m** (**73.8 lb ft**).



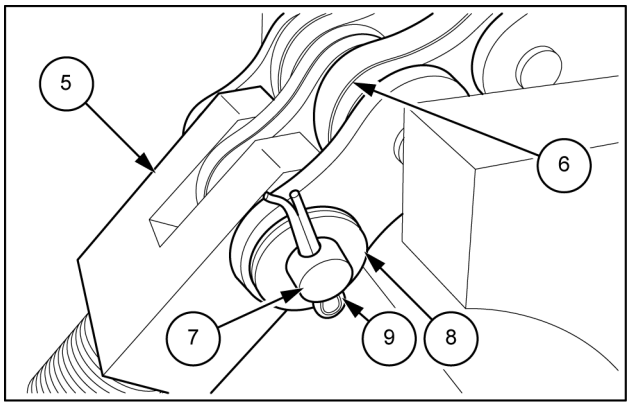
LEIL13TLH1486AB 3

Attach the two hydraulic hoses **(1)** and **(2)** to lock valve **(3)** on the telescopic cylinder.



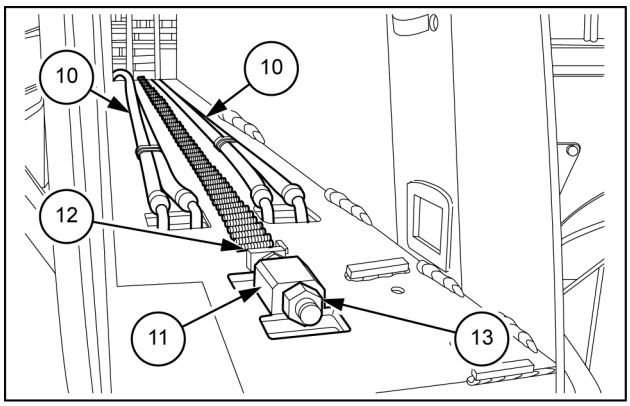
LEIL13TLH1521AB 4

Attach the linkage rod **(5)** to the chain **(6)** by inserting the locking pin **(7)**, the washers **(8)** and the cotter pins **(9)**.



LEIL13TLH1599AB 5

Insert the twin hoses **(10)** inside the boom first section and position the connections in the openings as shown in the figure. Insert the lower chain linkage rod **(12)** into the welded support **(11)**. Install the chain in the linkage rod **(12)** and tighten the locknut **(13)** to secure the chain.



LEIL13TLH1600AB 6

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Steering - 41

Cylinders - 216

LM 6.32
LM 6.35 ELITE
LM 7.35
LM 7.42 ELITE
LM 9.35

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ITEM	DESCRIPTION	CODE COMPONENT
26	Ride control/boom float	X-015A
27	Heatshrink	SP-1686
28	Heatshrink	SP-1503
29	Heatshrink	SP-030
30	Left-hand rear road lights	X-015
31	Tilt up valve	X-712
32	Boom lift valve	X-713
33	Auxiliary out valve	X-701
34	Telescopic boom retraction valve	X-702
35	Tilt down valve	X-711

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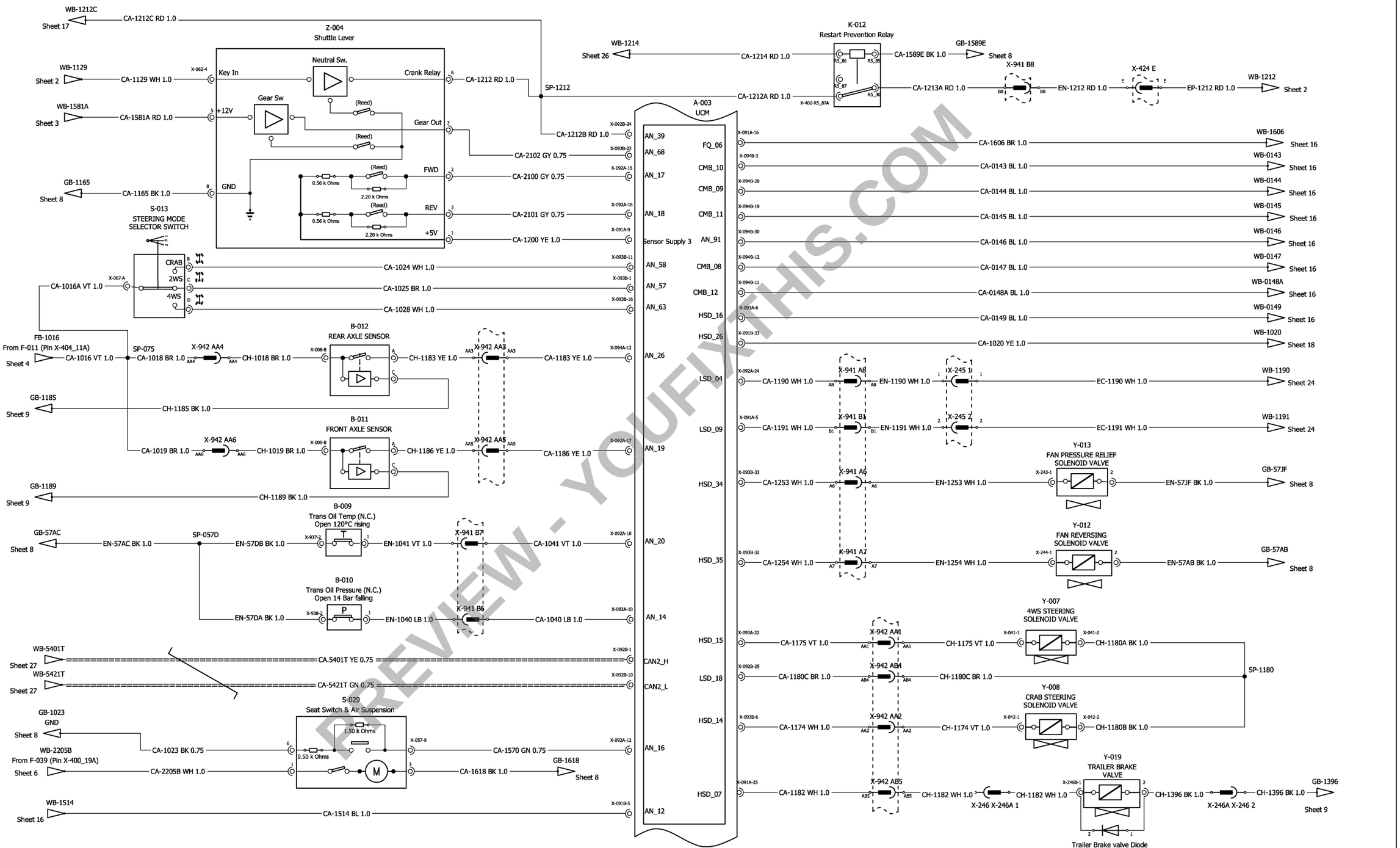
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Electrical system - Electrical schematic sheet 07 - Cab roof harness

ITEM	DESCRIPTION	CODE COMPONENT
1	Roof ground 2	X-079
2	Roof ground 1	X-078
3	Left-hand front work light	X-033
4	Left-hand front work light	X-033A
5	Right-hand front work light	X-032
6	Right-hand front work light	X-032A

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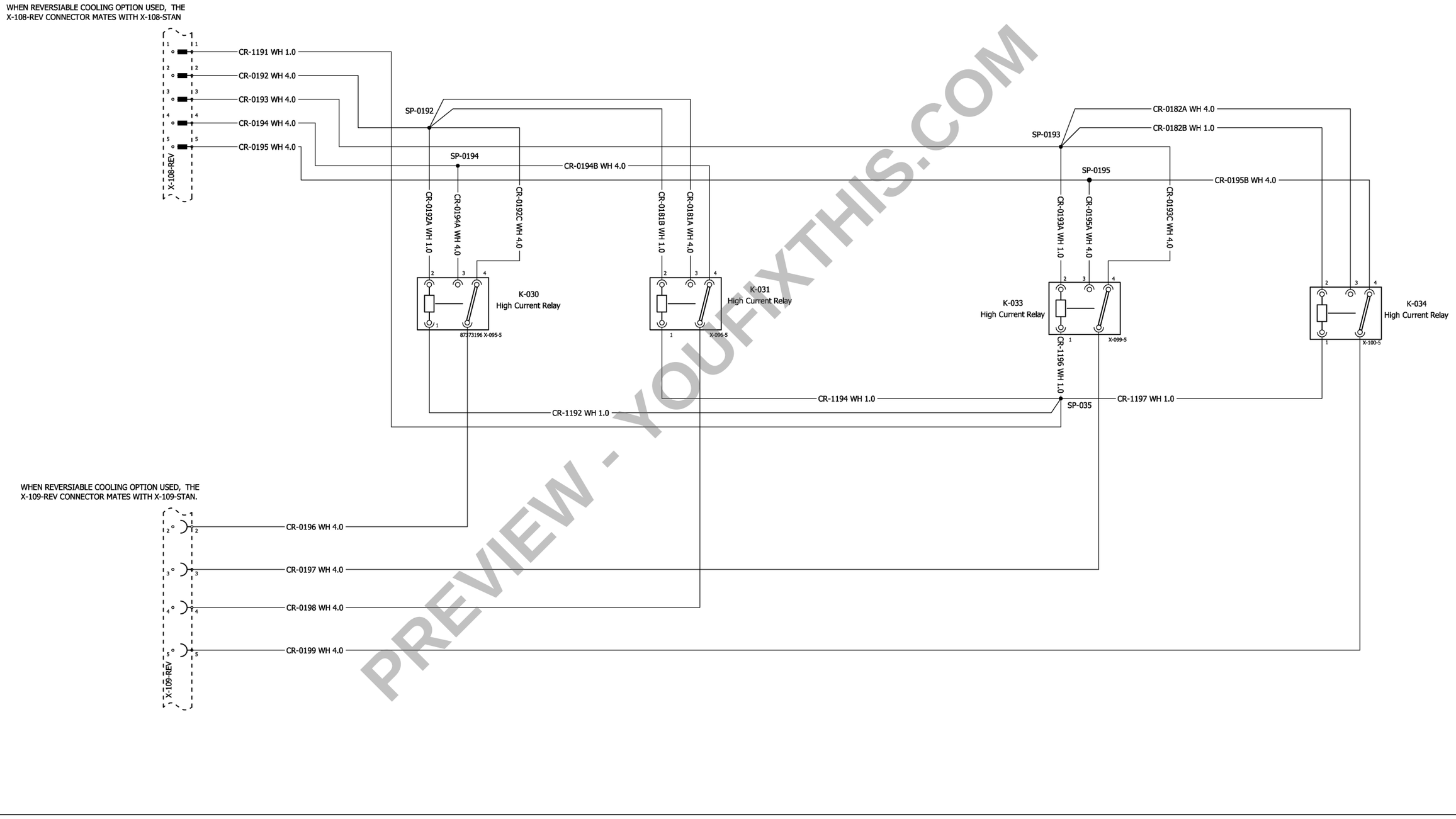
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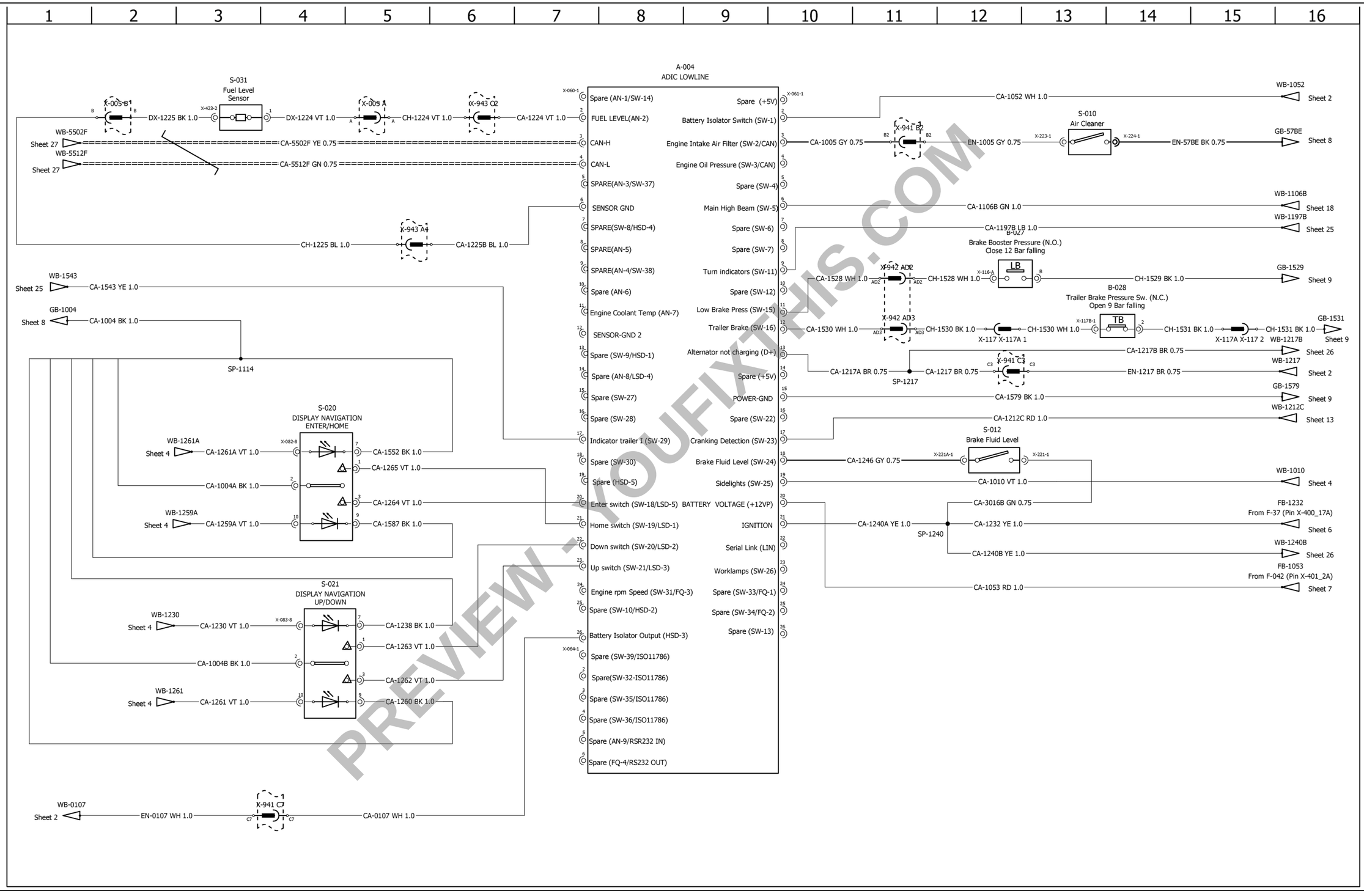
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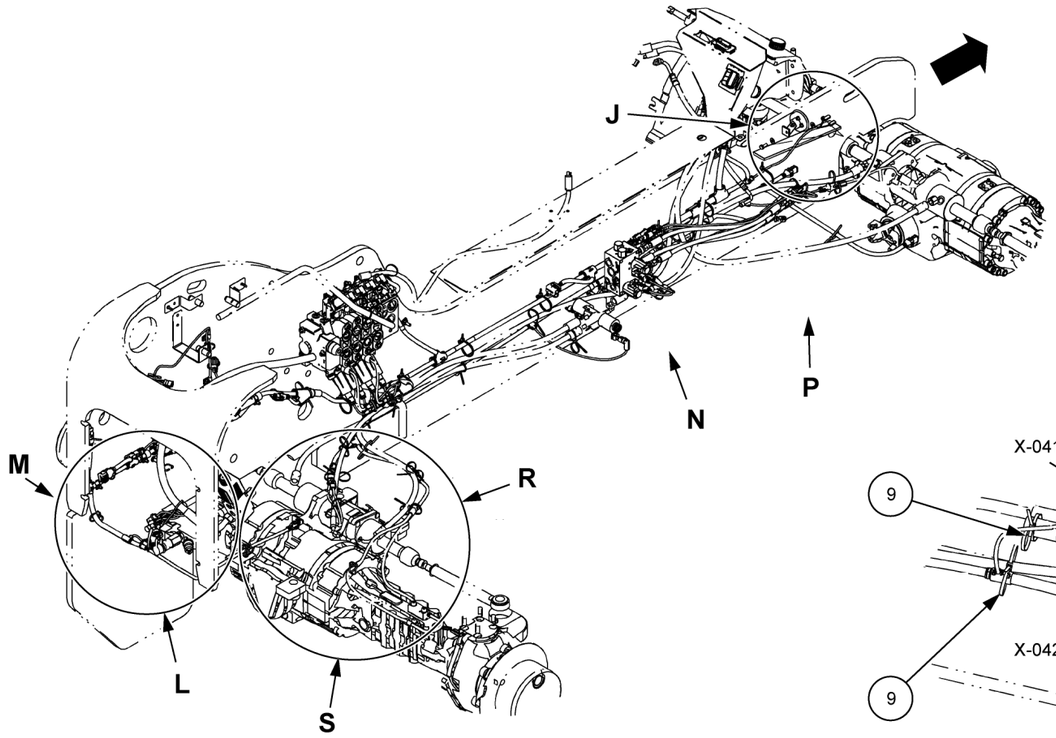
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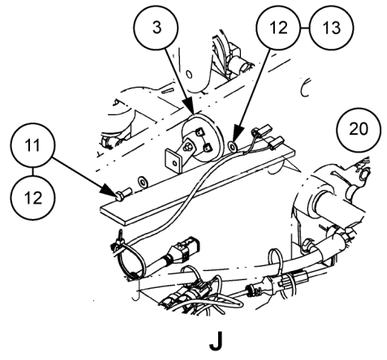


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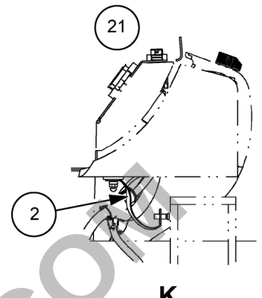
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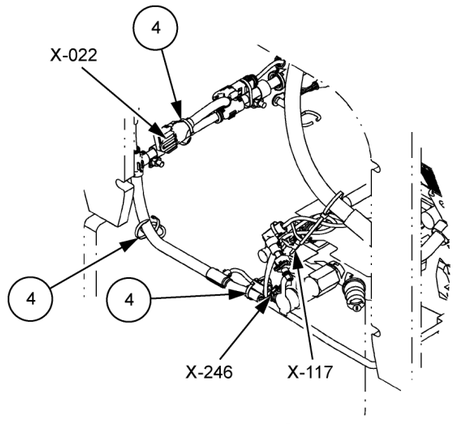




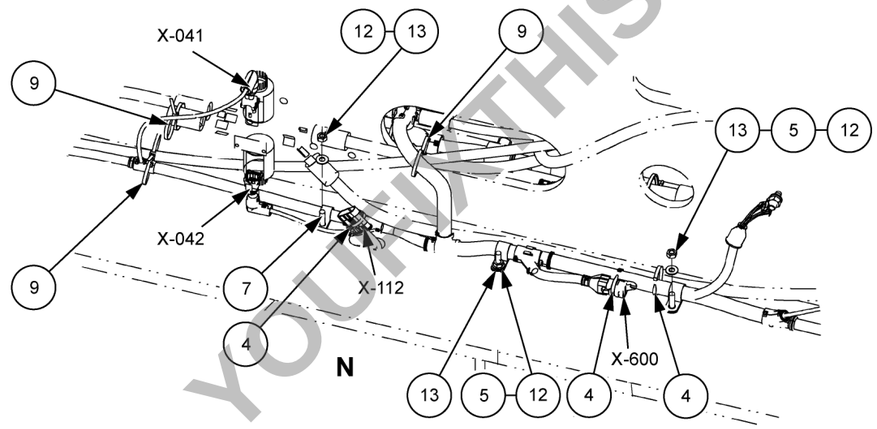
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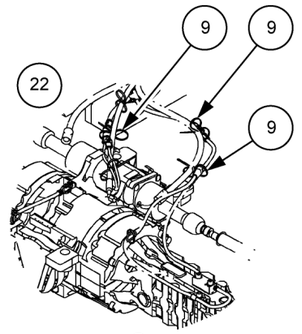
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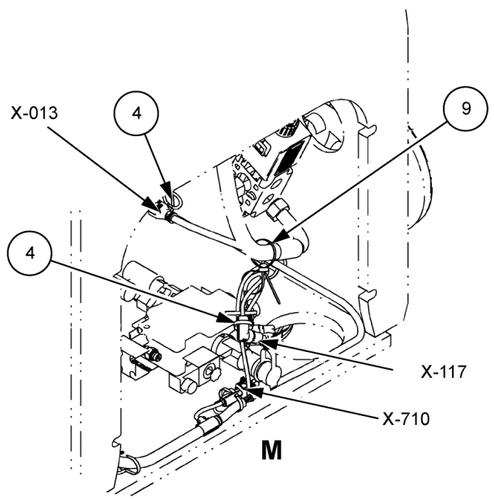
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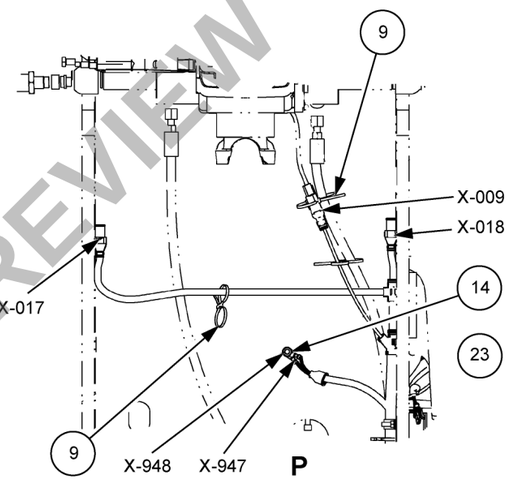
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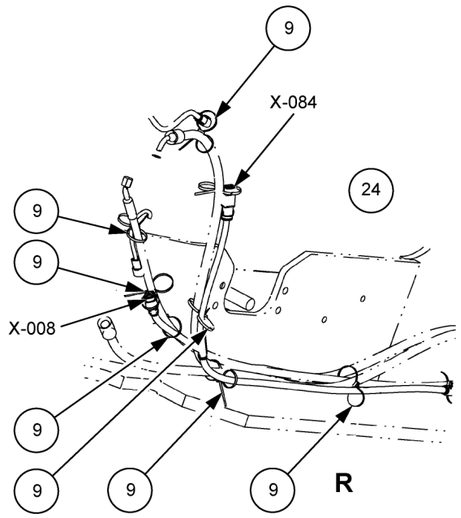
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M



P



R

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3088	Crankshaft Sensor - No Signal
3089	Crankshaft Sensor - Invalid Signal
3090	Camshaft Sensor - No Signal
3091	Camshaft Sensor - Invalid Signal
3093	Offset Between Camshaft and Crankshaft - Outside Boundaries
3095	Operating with Camshaft Sensor Only - Backup Mode
3096	ECM BusOff on Vehicle CAN
3097	ECM BusOff on Engine private CAN
3102	Rail Pressure Sensor CP3 - Signal Below Range Min
3104	Rail Pressure Relief Valve - Open
3105	Rail Pressure Relief Valve - Pressure Shock Requested
3106	Rail Pressure Relief Valve - Did Not Open After Pressure Shock
3107	Metering Unit - Shortcircuit to Battery
3108	Metering Unit - Shortcircuit to Ground
3110	Rail Pressure Sensor Offset Monitoring - Value above Limit
3111	Rail Pressure Sensor Offset Monitoring - Value below Limit
3112	Rail Pressure Sensor CP3 - Signal Above Range Max
3113	Engine Controller High side supply #2 - Short to Battery
3114	Engine Controller High side supply #2 - Short to Ground
3118	ECM 12V Sensor Supply Voltage High
3119	ECM 12V Sensor Supply Voltage Low
3131	Grid heater always switched on
3137	Metering Unit - Open Load
3138	Metering Unit - Temperature Too High
3141	Fuel Metering Unit: leakage is detected based on fuel quantity balance
3142	High Pressure Test - Test Active
3145	No key Switched input signals detected
3146	Water Detected In Fuel
3147	Oil Temperature Too High
3148	Coolant Temperature Sensor Dynamic Test - Failure (Minimum Temperature Raise Not Reached)
3154	Grid Heater Relay - Short circuit to Battery
3155	Grid Heater Relay - Short circuit to Ground
3156	Grid Heater Relay - No Load
3157	ECM Not Detected on CANbus –or– The engine dataset registration information was not available from the engine within the time required
3158	Invalid ECM Checksum (The engine dataset installed does not match the dataset registered for this machine. Register the new dataset if the dataset has just been updated)
3159	Invalid engine reference torque
3160	Fan actuator - short circuit to battery
3161	Fan actuator - short circuit to ground
3162	Fan actuator - no load
3163	Fan actuator - temperature too high
3166	Fuel Filter Heater Relay - Short circuit to Battery
3167	Fuel Filter Heater Relay - Short circuit to Ground
3168	Fuel Filter Heater Relay - Open Load
3169	Fuel Filter Heater Relay - Signal Not Plausible
3176	Engine is in overrun, injection quantity is zero and the pump is not a minimum flow to maintain the rail pressure
3177	Engine Overspeed Detected
3179	Timeout of CAN Message BC2EDC2
3180	Timeout of CAN Message VCM2EDC
3182	Timeout of CAN Message RxCCVS
3183	Timeout of CAN message TSC1-VR (when active)
3184	Timeout of CAN message TSC1-VR (when inactive)

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