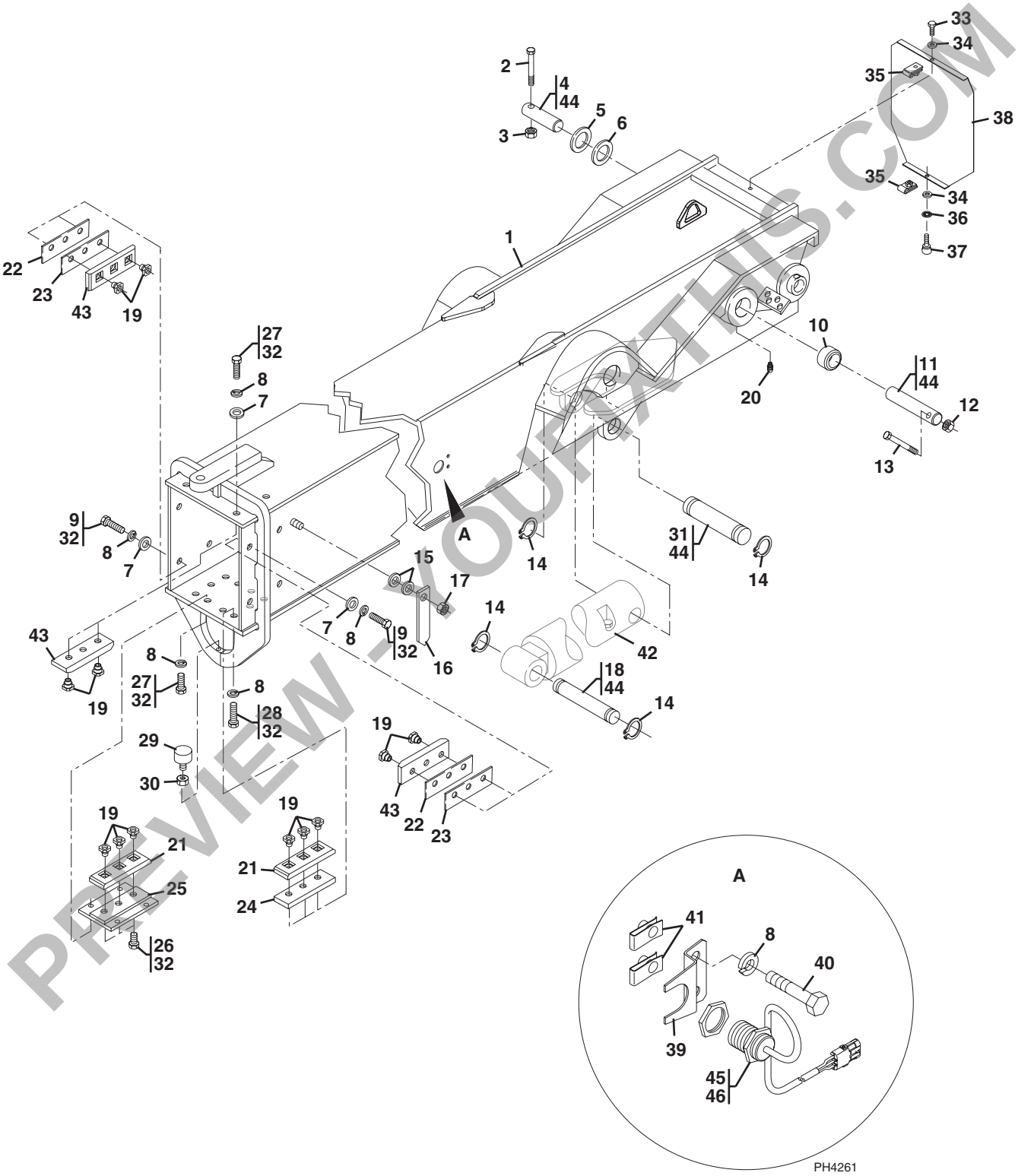
Figure 2-1 First Boom Section



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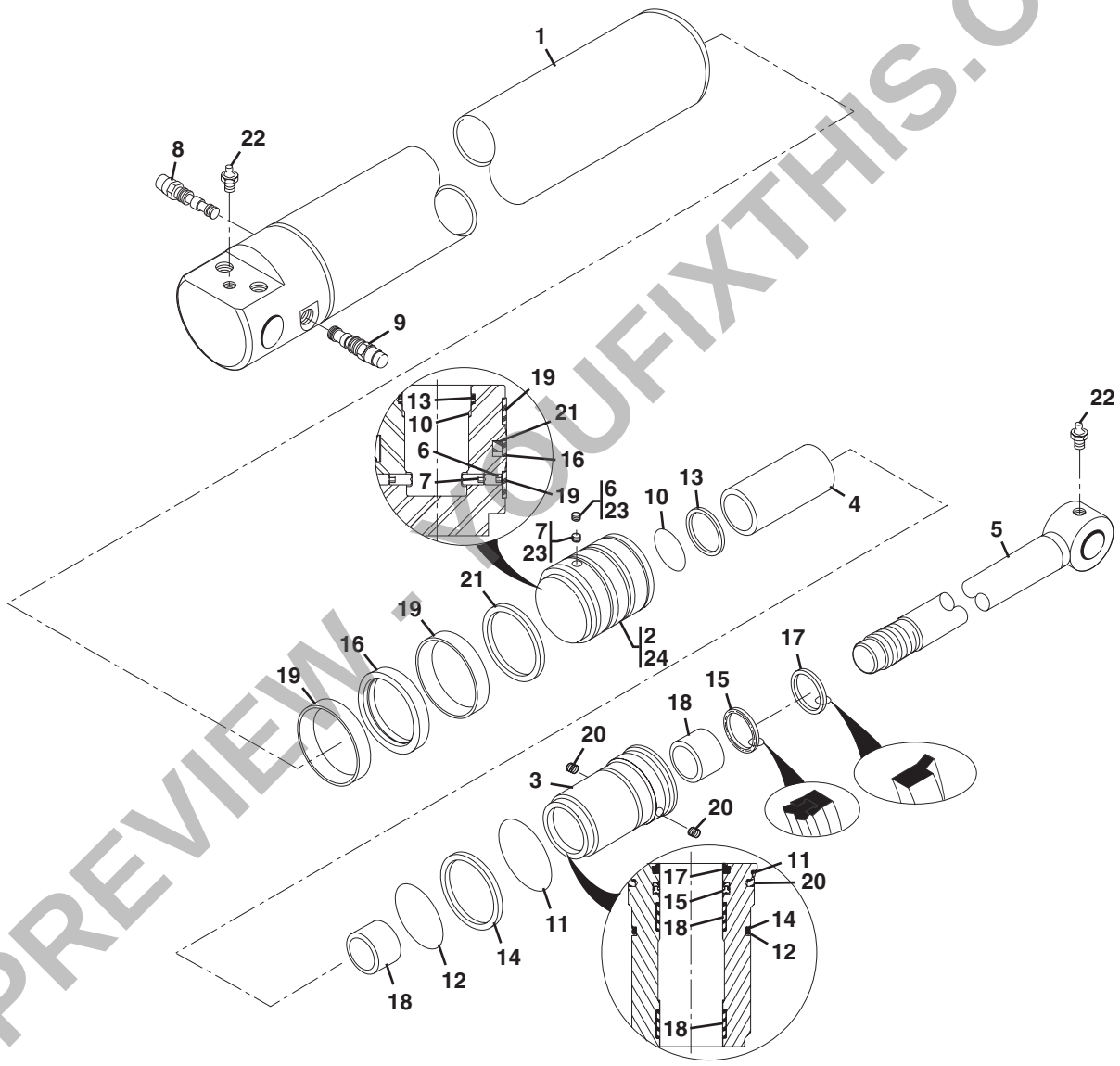
Figure 2-1 First Boom Section

Item	Part Number	Qty.	Description	Rev.
1		1	FIRST BOOM SECTION, (order service kit, see Figure 12-7 for details)	
2	8303655	2	HEX HD CAPSCREW, 5/8-11X4.50	
3	8305643	2	HEX LOCKNUT, 5/8-11	
4	7097682	2	BOOM PIVOT PIN	
5	8307910	AR	WASHER, SHIM, 2.75 DIA.X.075	
6	8307911	AR	WASHER, SHIM, 2.75 DIA.X.135	
7	8307204	12	FLAT WASHER, 3/8	
8	8307005	24	LOCKWASHER, 3/8	
9	8303681	8	HD HEX CAPSCREW, 3/8-16X3/4, (loctite & torque to 31 lb-ft)	
10	8065640	4	BEARING, 2 DIA., (self align)	
11	7092292	4	HOIST & SLAVE CYLINDER PINS	
12	8305644	4	HEX LOCKNUT, 1/2-13	
13	8303782	4	HEX HD CAPSCREW, 1/2-13X4	
14	8642224	4	RETAINING RING, 2 DIA.	
15	8307113	2	FLAT WASHER, 7/16	
16	7075611	1	POINTER	
17	8305647	1	HEX LOCKNUT, 7/16-14	
18	7096562	1	EXTEND CYLINDER PIN, (rod end)	
19	7082311	21	WEAR PAD INSERT	
20	8520013	4	LUBE FITTING, STRAIGHT, 1/8	
21	7111572	3	WEAR PAD	
22	7082342	AR	SHIM, WEAR PAD, (.07)	
23	7082362	AR	SHIM, WEAR PAD, (.13)	
24	7096882	2	SPACER, WEAR PAD, (.62)	
25	7096772	1	SPACER, WEAR PAD, (special)	
26	8303041	3	HEX HD CAPSCREW, 3/8-16X1/2, (loctite & torque to 31 lb-ft)	
27	8303620	8	HEX HD CAPSCREW, 3/8-16X1, (loctite & torque to 31 lb-ft)	
28	8303621	6	HEX HD CAPSCREW, 3/8-16X1-1/2, (loctite & torque to 31 lb-ft)	
29	5724622	1	RUBBER BUMPER	
30	8305645	1	HEX LOCKNUT, 3/8-16	
31	7096552	1	EXTEND CYLINDER PIN, (base end)	
32	8526007	AR	LOCTITE, (apply to items 9, 26, 27 & 28)	
33	8303697	1	HEX HD CAPSCREW, 5/16-18X3/4	
34	8307106	2	FLAT WASHER, 5/16	
35	8305906	2	RETAINER NUT, 5/16-18	
36	8310431	1	LOCKWASHER, 5/16, (internal tooth)	
37	8310497	1	THUMB SCREW, 5/16-18X1.50	
38	7116792	1	REAR BOOM COVER	
39	7138468	1	PROXIMITY SWITCH CLIP	
40	8303738	2	HEX HD CAPSCREW, .375-16X.88	
41	8310113	2	CAGE NUT, .375-16	
42		Ref	EXTEND/RETRACT CYLINDER, (see Figure 9-1 for details)	
43	7079572	6	WEAR PAD	
44	8522012	AR	ANTI-SEIZE LUBE, (apply to items 4, 11, 18 & 31)	
45	7099882	1	BOOM ANGLE SENSOR, (8042 & 10042 only)	
46	7099882	2	BOOM ANGLE & BOOM INTERLOCK SENSOR, (10054 only)	
	7302086	1	FIRST BOOM SECTION SERVICE KIT	

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Figure 9-1 Extend/Retract Cylinder



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Figure 10-1 Cab Harness



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Figure 8-1 Service Brake & De-Clutch



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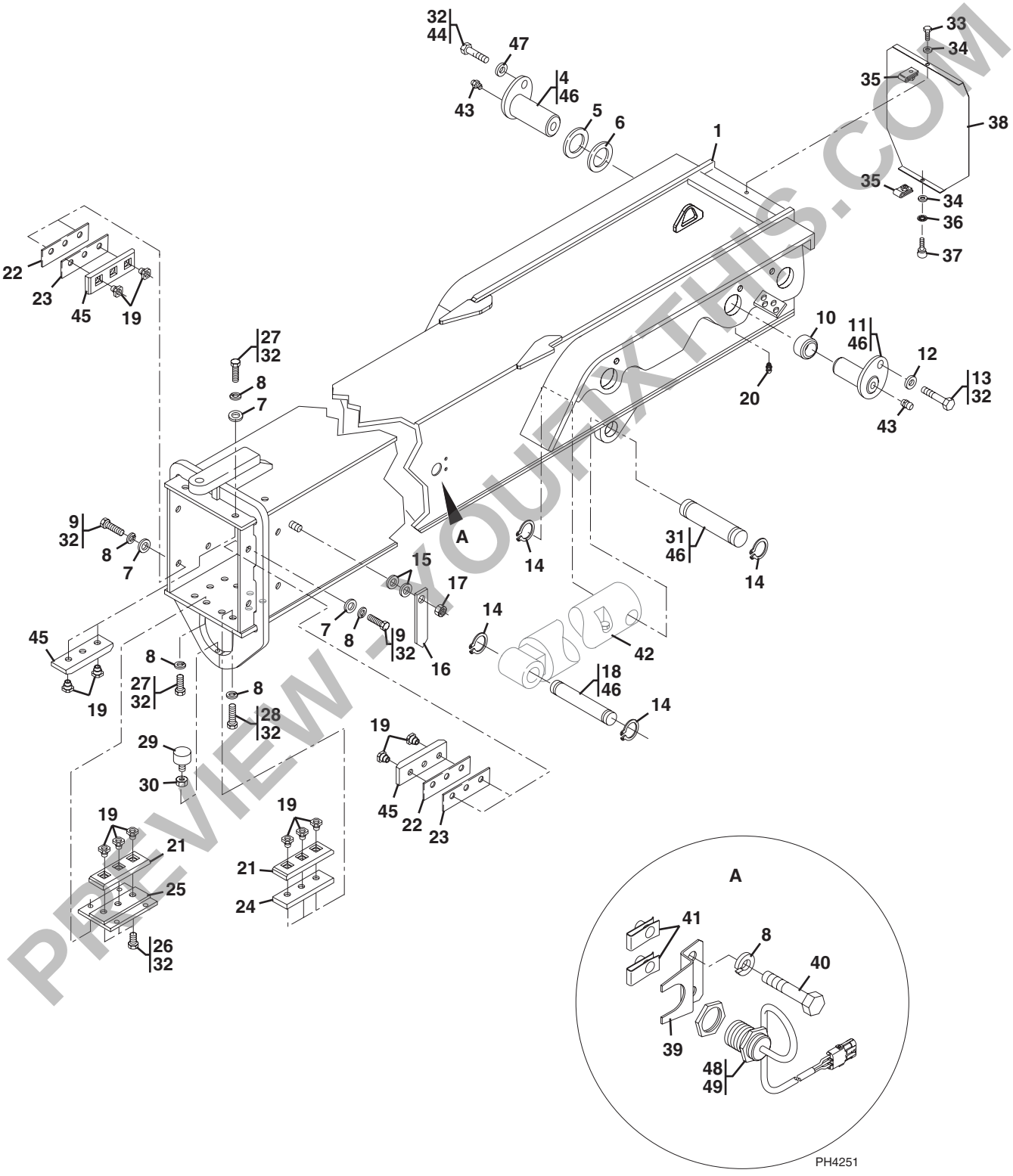
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Figure 2-1 First Boom Section



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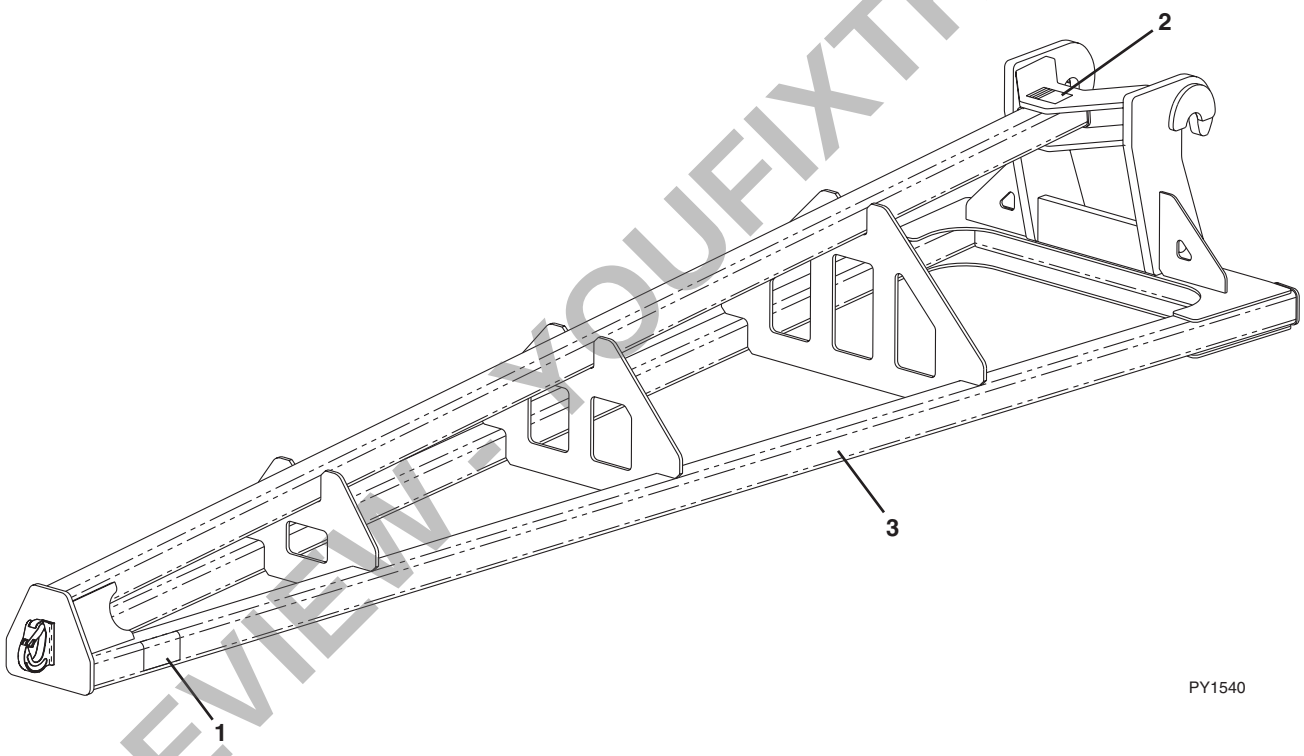
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Figure 3-8 Truss Boom



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Figure 4-1 Engine Mounting

Item	Part Number	Qty.	Description	Rev.
	2000395	1	ENGINE ASSY, (includes items 1 thru 18)	E
1	0641832	2	HEX HD CAPSCREW, 1/2-13X4, (torque to 120 lb-ft)	
2	0701214	14	HEX HD CAPSCREW, M12X30, PC8.8, (torque to 97 Nm)	
4	0903642	1	ENGINE MOUNT, L.H.	
5	0903643	1	REAR ENGINE MOUNT	
6	0903677	1	ENGINE MOUNT, R.H.	
7	2000397	1	CUMMINS ENGINE, QSB4.5, (includes items 101 thru 109)	
8	4341395	1	ISOLATOR	
9	4341396	2	ISOLATOR	
10	8303702	1	HEX HD CAPSCREW, 1/2-13X3, GR5, (torque to 85 lb-ft)	
11	8305644	3	HEX LOCKNUT, 1/2-13, (torque to 59-66 lb-ft)	
12	8307025	14	LOCKWASHER, M12	
13	8406105	1	HOSE CLAMP	
15	4891500	16	WASHER, 5/16	
16	3311505	8	HEX LOCKNUT, 5/16-18, GR2	
17	0641510	8	HEX HD CAPSCREW, 5/16-18X1-1/4	
18	0100011	AR	LOCTITE, #242, (apply to items 1, 2 & 10)	
101	70020357	1	FAN BELT	
102	70020347	1	FAN SPACER	
103	7029525	1	ALTERNATOR	
104	70020352	1	STARTER	
105	70020358	1	ENGINE OIL FILTER ELEMENT	
106	70020350	1	DIPSTICK	
107	70020351	1	DIPSTICK TUBE	
108	83673130	1	OIL FILL CAP	
109	70020356	1	THERMOSTAT, (not shown)	
	2060046	1	FAN ASSY, (includes items 201 thru 203)	C
201	2060045	1	22” PUSHER FAN	
202	3575947	2	FAN HUB PLATE	
203	8310748	4	HEX HD CAPSCREW, M10X1.5X50, PC8.8, (torque to 25-45 lb-ft)	
	1001094010	1	SENSORS INSTALLATION, (includes items 301 thru 303)	B
301	8223244	1	WATER TEMPERATURE SWITCH	
302	8220073	1	TAB TERMINAL	
303	2221154	1	REDUCER, **(8042 S/N 0160033553 & After), (10042 S/N 0160033550 & After), (10054 S/N 0160033552 & After)**	
	1001101080	1	SENSOR KIT, (includes item 303 & plug), **(8042 S/N 0160029593 thru 0160033552), (10042 S/N 0160029607 thru 0160033549), (10054 S/N 0160029594 thru 0160033551)**	
	1001111849	1	250 HOUR FILTER KIT, (includes 5 filters: engine oil, primary fuel, in-line fuel, primary air filter & safety air filter)	
	1001111850	1	1000 HOUR FILTER KIT, (includes 8 filters: transmission oil, hydraulic oil, primary air filter, safety air filter, engine oil, in-line fuel, primary fuel & filler breather)	
			NOTE: ITEM NUMBERS NOT LISTED ARE NOT USED ON THIS FIGURE	

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Figure 4-4 Air Cleaner Assembly

Item	Part Number	Qty.	Description	Rev.
	2120223	1	AIR CLEANER ASSY, (includes items 1 thru 12)	D
1	0903638	1	AIR CLEANER BRACKET	
2	2720636	1	AIR CLEANER HOSE	
3	2720637	1	AIR INTAKE SCOOP	
4	0641510	2	HEX HD CAPSCREW, 5/16-18X1-1/4	
5	8305626	2	HEX LOCKNUT, 5/16-18	
6	4751500	2	PLAIN WASHER, 5/16	
7	8405305	1	T-BOLT BAND CLAMP, 3.38 I.D.	
8	8405505	1	T-BOLT BAND CLAMP	
9	8406102	1	WIRE CLIP	
10	8410021	1	T-BOLT BAND CLAMP, 5 I.D.	
12	1001097585	1	AIR CLEANER ASSY, (includes items 101 thru 105)	
	10268515	1	AIR CLEANER	
	10268516	1	AIR CLEANER MOUNTING BAND	
	8273241	1	AIR RESTRICTION INDICATOR	
101	91364023	1	COVER ASSY	
102	10733183	1	VACUATOR VALVE	
103	1101312	1	PRIMARY FILTER ELEMENT	
104	1101313	1	SECONDARY FILTER ELEMENT	
105		1	AIR CLEANER BODY	
			NOTE: ITEM NUMBERS NOT LISTED ARE NOT USED ON THIS FIGURE	

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Figure 5-3 Front Axle - Input (Continued)

Item	Part Number	Qty.	Description	Rev.

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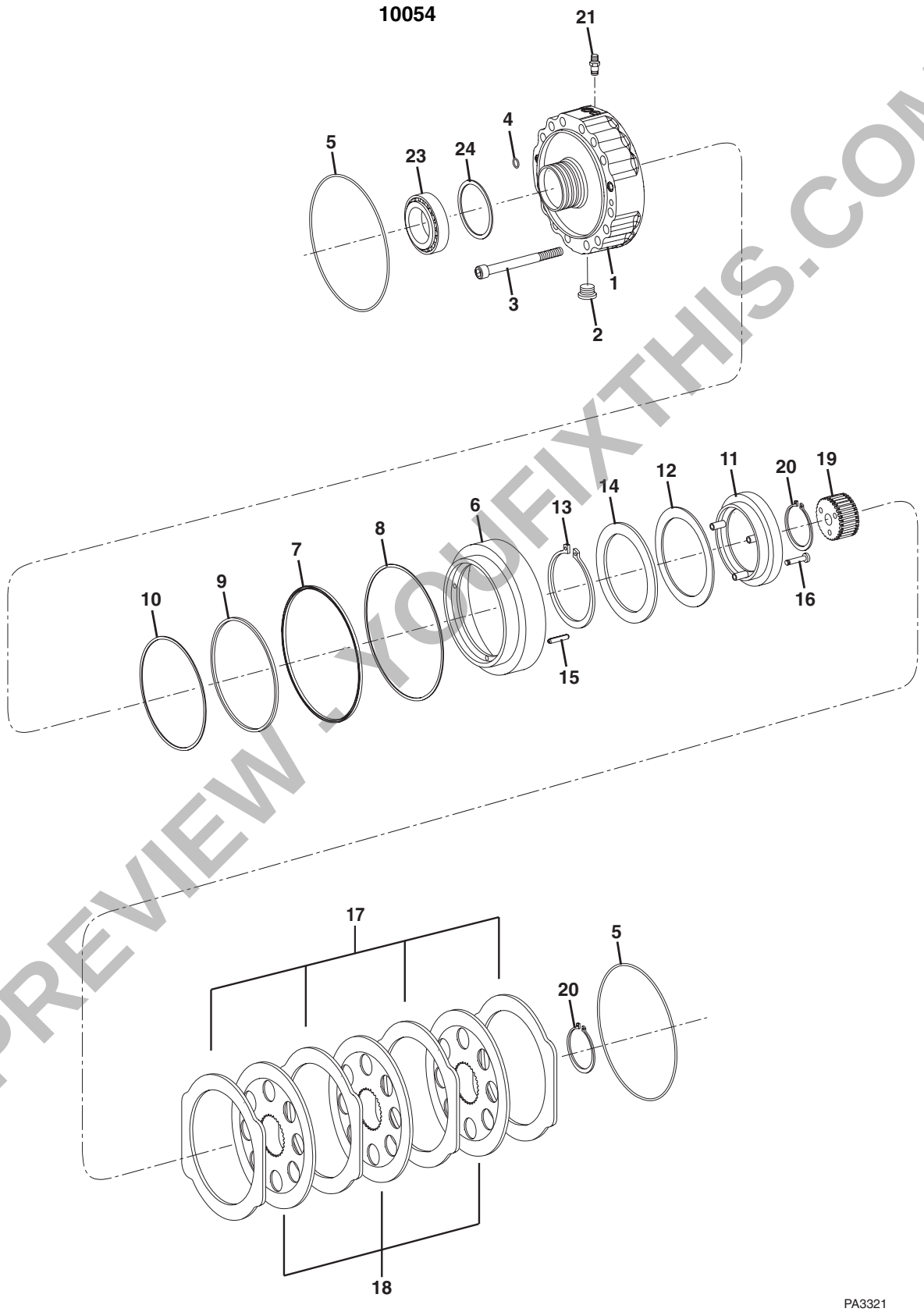
Figure 5-8 Front Axle - Joint Housing

Item	Part Number	Qty.	Description	Rev.

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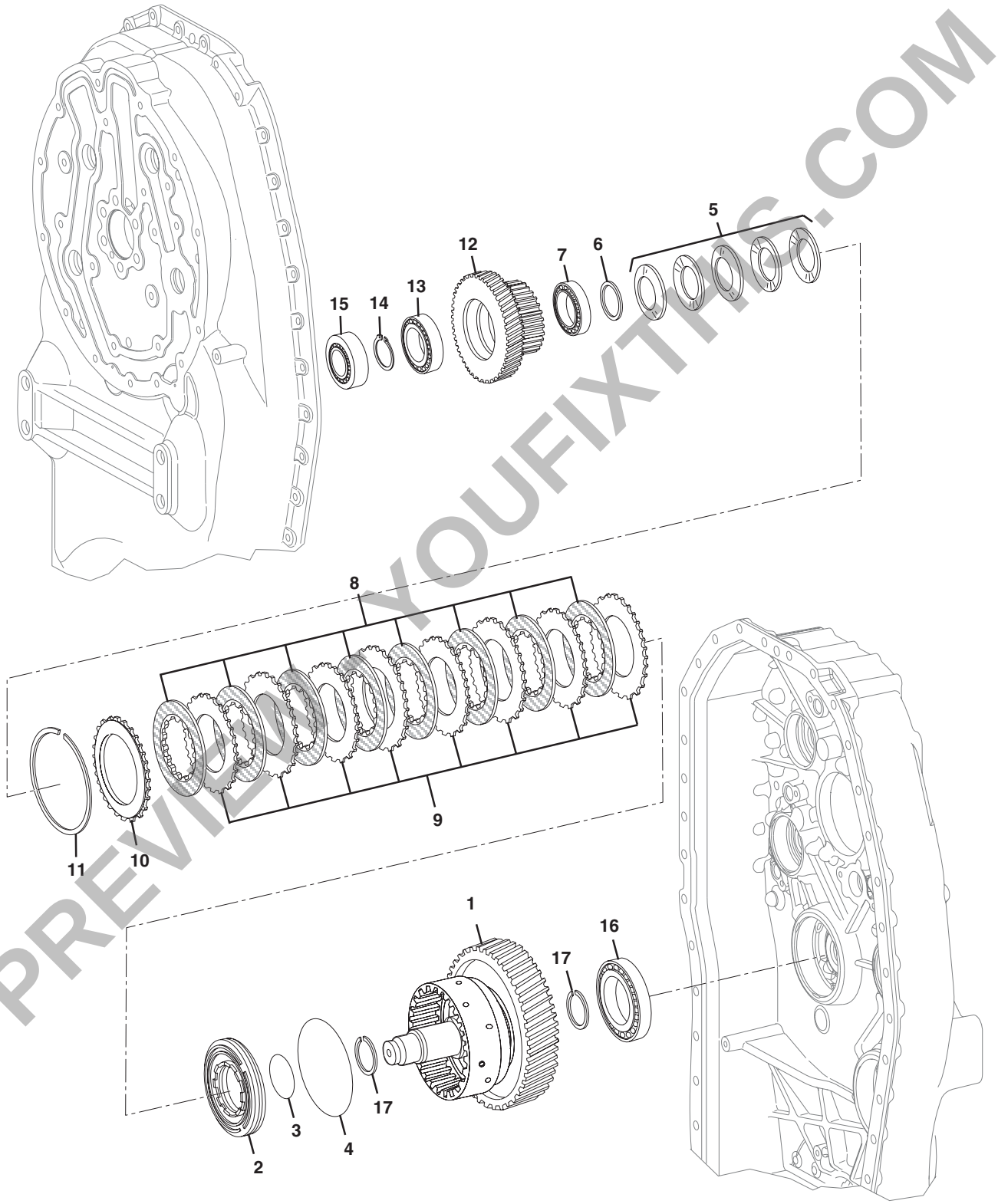
Figure 5-14 Rear Axle - M-Disc Brake



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Figure 5-24 ZF Transmission - Coupling Group 3

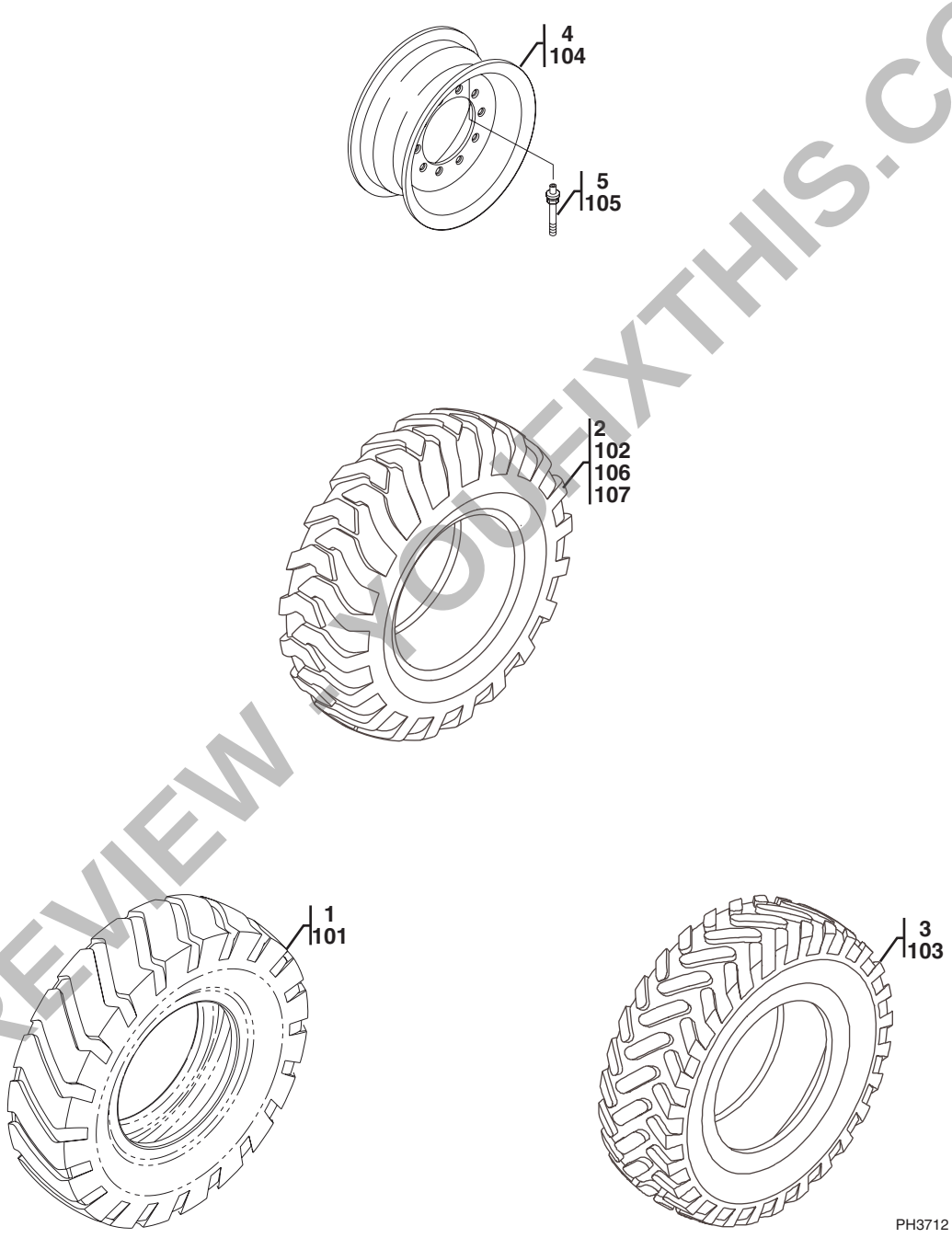


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Figure 5-34 Tires & Rims

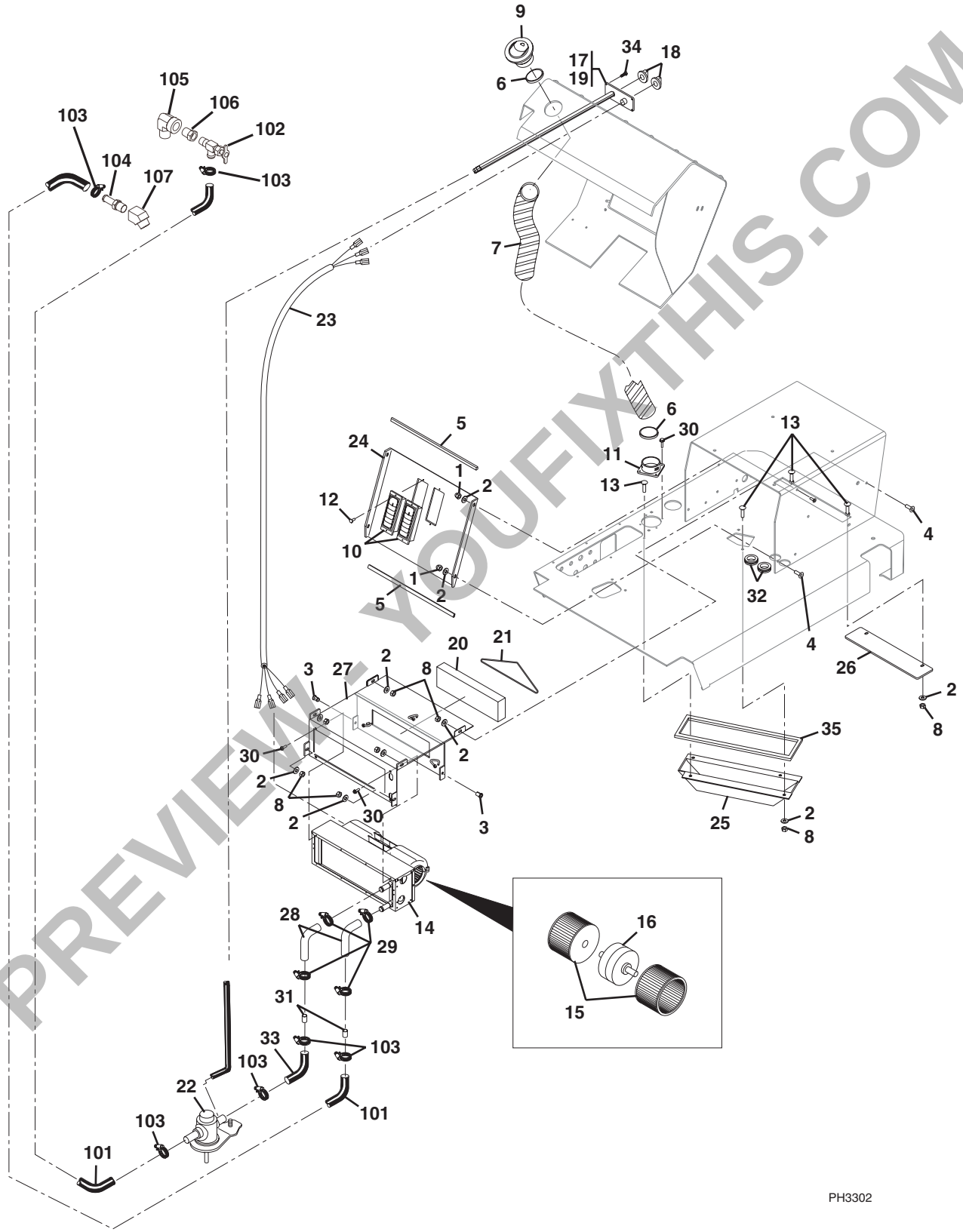
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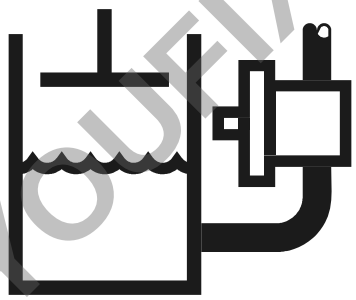
Figure 6-8 Cab Heater



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SECTION 8
HYDRAULIC CIRCUITS



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Figure 8-7 Control Valve

Item	Part Number	Qty.	Description	Rev.
1	2717159	1	HOSE ASSY	
2	2717158	1	HOSE ASSY	
3	2716694	1	HOSE ASSY	
4	8762012	1	TUBE END REDUCER	
5	8760415	1	NUT, 16	
6	8760552	1	MALE BRANCH TEE, (includes o-ring)	
7	2220500	1	ELBOW, 45 DEGREES, (includes o-ring)	
8	2716663	1	HOSE ASSY	
9	2716808	1	HOSE ASSY	
10	8405209	1	HOSE CLAMP	
11	8640208	1	O-RING	
12	10717672	2	FLANGE HALF	
13	8303626	4	HEX HD CAPSCREW, 1/2-13X1.5	
14	8307007	4	LOCKWASHER, 1/2	
15	2716750	1	SPECIAL HOSE	
16	8640123	3	O-RING	
17	8530030	6	FLANGE HALF	
18	8303675	12	HEX HD CAPSCREW, 3/8-16X1.25, GR5	
19	8307005	12	LOCKWASHER, 3/8	
20	2716698	1	HOSE ASSY	
21	2716668	1	HOSE ASSY	
22	2716658	1	HOSE ASSY	
23	2716690	1	HOSE ASSY	
24	8750040	1	TWIN CLAMP SET, 1.46 DIA.	
25	8303757	1	HEX HD CAPSCREW, 5/16-18X2.5	
26	8307004	1	LOCKWASHER, 5/16	
27	8750025	1	TWIN COVER PLATE	
28	8310477	2	CARRIAGE BOLT, 5/16-18X5, GR2	
29	8310337	1	CARRIAGE BOLT, 1/2-13X2.5	
30	8310524	2	CARRIAGE BOLT, 1/2-13X1.75	
31	8310523	3	HEX FLANGE NUT, 1/2-13	
32	8765204	1	ELBOW, 90 DEGREES, (swivel nut)	
33	2220374	1	STRAIGHT CONNECTOR, (includes o-ring)	
34	8770173	1	CONNECTOR w/OUTLET CHECK	
35	8760254	1	ELBOW, 90 DEGREES, (swivel nut)	
36	8760268	1	ELBOW, 90 DEGREES, (includes o-ring)	
37	8760117	1	STRAIGHT CONNECTOR	
38	8760479	1	MALE BRANCH TEE, (includes o-ring)	
39	8310420	2	HEX FLANGE NUT, 5/16-18X1, GR5	
40		Ref	MAIN PUMP, (see Figure 9-8 for details)	
41		Ref	STRAIGHT CONNECTOR, (swivel nut), (see Figure 8-1 for details)	
42		Ref	UNION CROSS, (see Figure 8-1 for details)	
43		Ref	SECONDARY FUNCTION MANIFOLD, (see Figure 9-10 for details)	
44	8760457	1	MALE BRANCH TEE, (includes o-ring)	
45		Ref	OIL COOLER, (see Figure 4-1 for details)	
46		Ref	HYDRAULIC RESERVOIR, (see Figure 9-11 for details)	
48	8902278	1	CHECK VALVE, 125 PSI	
49	2220373	1	STRAIGHT CONNECTOR	
50	8640123	1	O-RING	

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Figure 9-1 Extend/Retract Cylinder

Item	Part Number	Qty.	Description	Rev.
	2717052	1	BOOM EXTEND/RETRACT CYLINDER, (includes items 1 thru 23)	
1		1	TUBE WELDMENT	
2	8035800	1	PISTON, (loctite & torque to 390-460 lb-ft)	
3	8035539	1	HEAD GLAND, (torque to 300-400 lb-ft)	
4	8035616	1	ROD SPACER	
5	8035615	1	ROD WELDMENT	
6	8035536	1	SET SCREW, 5/16-18X.50, (loctite & torque to 9-11 lb-ft)	
7	8035315	1	SET SCREW, 5/16-18X.63, (loctite & torque to 9-11 lb-ft)	
8	8035514	1	COUNTERBALANCE VALVE, 3500 PSI, (torque to 150-160 lb-ft)	
	8205657	1	SEAL KIT	
9	8034026	1	PILOT TO OPEN CHECK VALVE, (torque to 150-160 lb-ft)	
	8205657	1	SEAL KIT	
10		1	O-RING	
11		1	O-RING	
12		1	O-RING	
13		1	BACK-UP RING	
14		1	BACK-UP RING	
15		1	ROD SEAL	
16		1	PISTON SEAL	
17		1	WIPER SEAL	
18		2	WEARBAND	
19		4	WEARBAND	
20		2	LOCKING INSERT	
21		1	SQUARE RING	
22	8520013	2	GREASE FITTING	
23	7026579	1	SPACER	
24	8526007	1	LOCTITE #242, (apply to items 6 & 7)	
25	8526011	1	LOCTITE #271, (apply to item 2)	
	8036295	1	SEAL KIT, (includes items 10 thru 21)	

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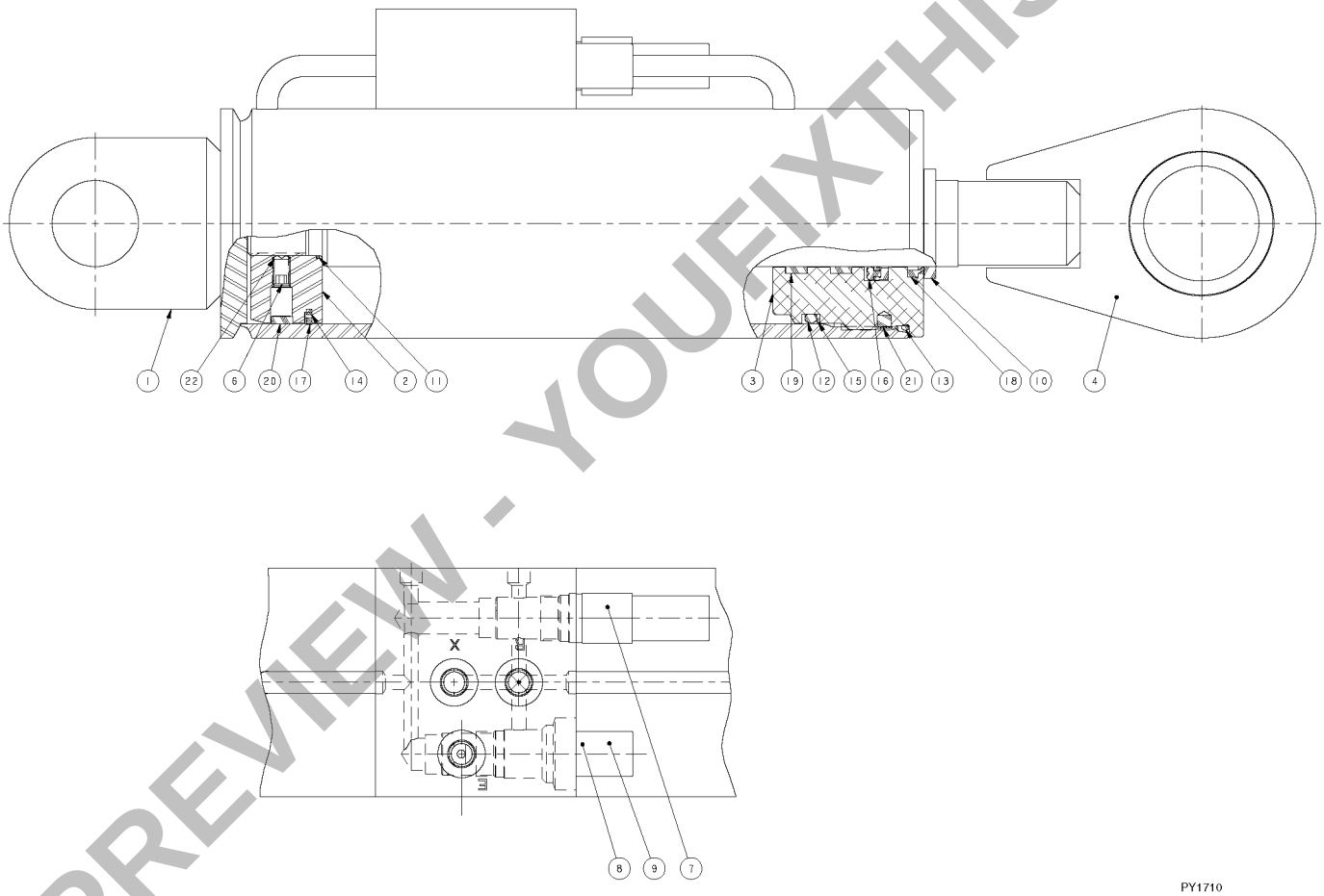
Figure 9-5 Stabil-Trak Cylinder

Item	Part Number	Qty.	Description	Rev.
	2717198	1	STABIL-TRAK CYLINDER, (includes all items	
1		1	TUBE WELDMENT	
2	8035781	2	CONICAL ORIFICE DISK, .06 DIA	
3	8036582	1	CHECK VALVE, (torque to 20-25 lb-ft)	
	7017496	1	SEAL KIT	
4	8036826	1	PISTON	
5	8036828	1	GUIDE, (torque to 300-350 lb-ft)	
6	8036827	1	ROD WELDMENT	
7	7029153	1	O-RING	
8	7017283	1	HEX SOCKET SET SCREW, 1/4-20X3/8, (torque to 3-4 lb-ft)	
9	8036825	1	LOCKNUT, 1-1/2-12, (torque to 1175-1400 lb-ft)	
10	8035282	1	PRESSURE REDUCING VALVE, (torque to 35-40 lb-ft)	
	8032994	1	SEAL KIT	
11	8035757	2	PO CHECK VALVE, SERIES 10, (torque to 35-40 lb-ft)	
	8036192	2	SEAL KIT	
12	8036579	5	SOLENOID COIL, (torque to 25-30 lb-ft)	
13	8036581	4	SOLENOID VALVE, 2 WAY, 12V	
	7017496	4	SEAL KIT	
14	8036580	1	SOLENOID VALVE, 4 WAY, 12V	
	7012903	1	SEAL KIT	
15		1	O-RING	
16		1	WEAR RING	
17		2	O-RING	
18		1	BACK-UP RING	
19		1	DEEP Z-SEAL	
20		1	CAPPED T-SEAL	
21		1	WIPER RING	
22		2	WEAR RING	
	8036747	1	SEAL KIT, (includes items 15 thru 22)	

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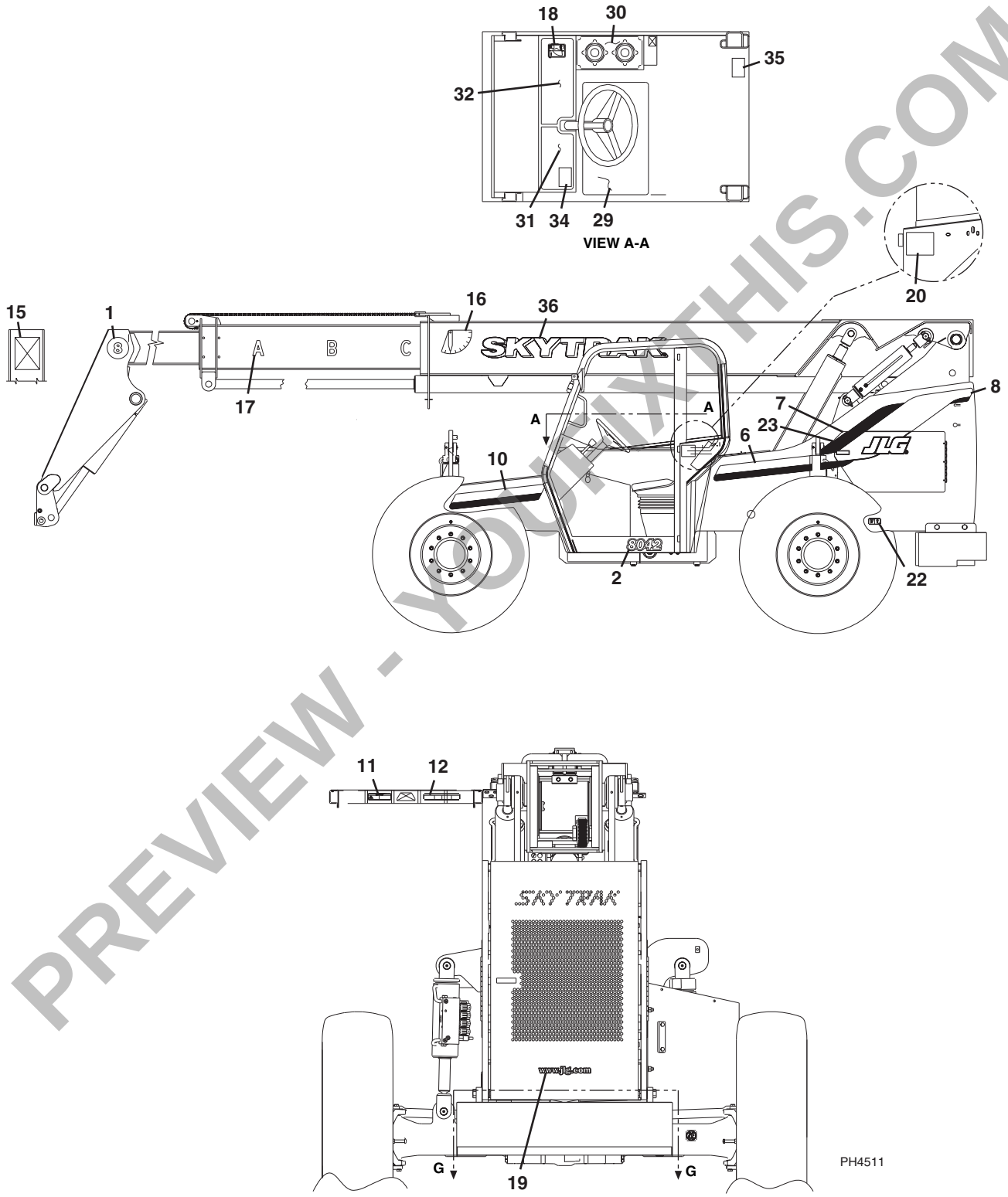
Figure 9-13 72” 90 Degree Swing Carriage Cylinder



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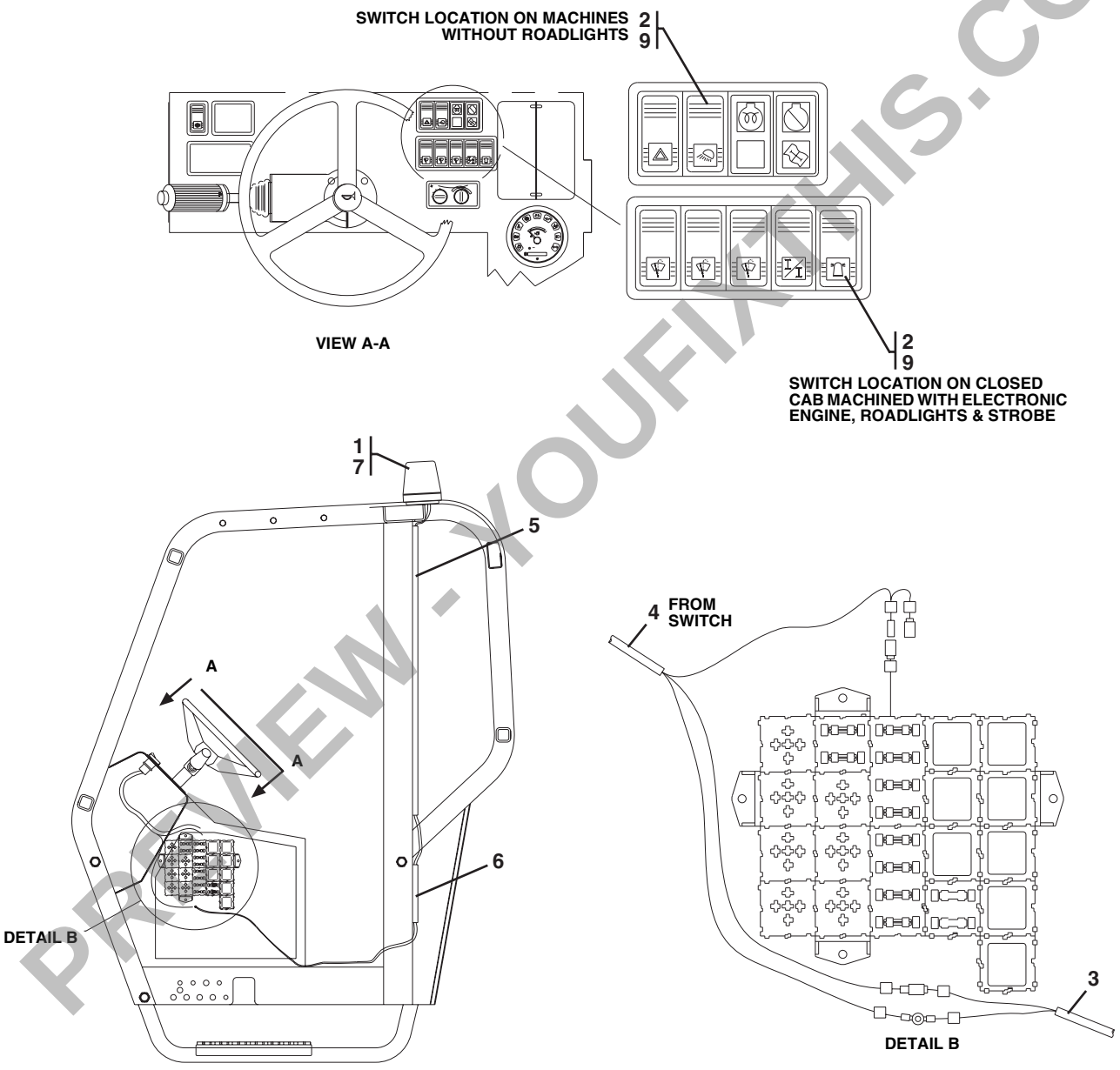
Figure 11-1 Decals



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Figure 12-6 Rotating Beacon Installation



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