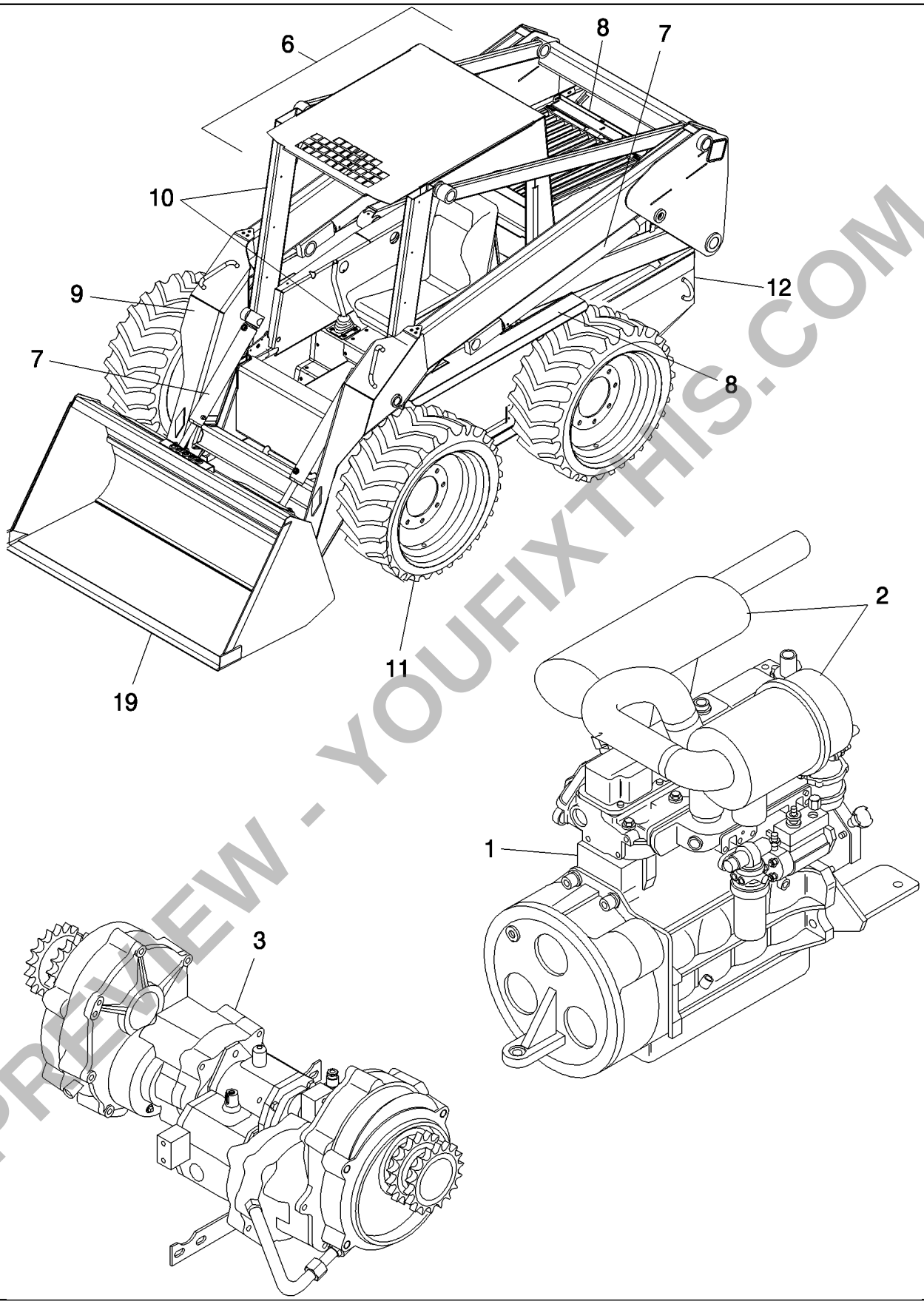


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LS180 SKID STEER LOADER (9/99-) - General

00.00 MAIN SECTIONS PICTORIAL INDEX

Ref	Part Number	Qty	Description

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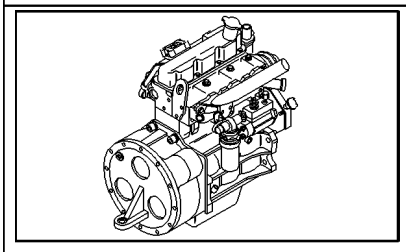
01.02 ENGINE, CYLINDER BLOCK, HEAD & RELATED PARTS

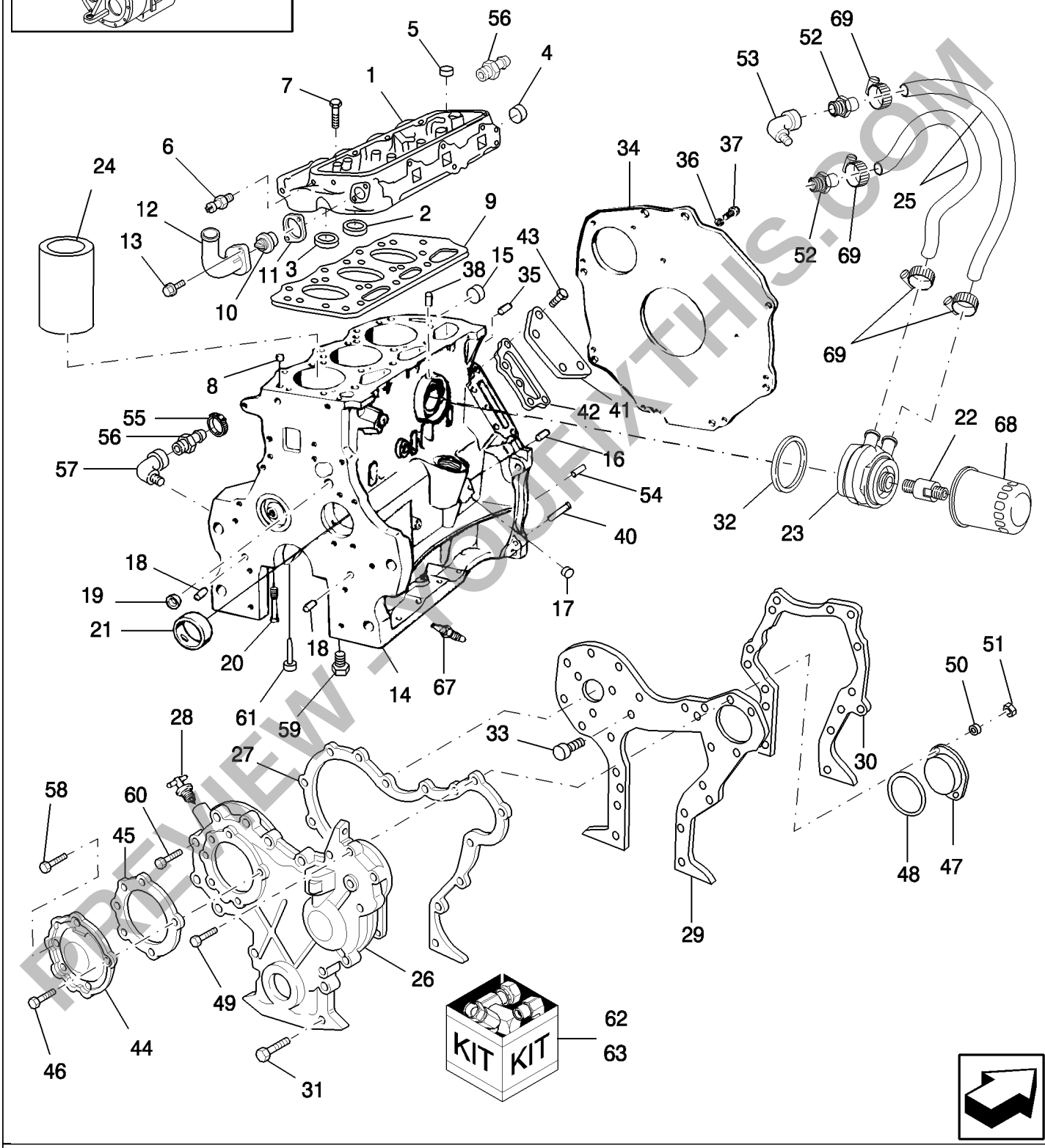
Ref	Part Number	Qty	Description
	87801409	1	ENGINE,
	87801419	1	ENGINE, SHORT,
1	87801330	1	CYLINDER HEAD, Incl. Ref. 2 - 5
2	87802173	3	VALVE SEAT, Intake Valve, Std
2	E7NN6E087BA	AR	INSERT, Intake Valve, .01" (.254mm), O/S
2	87802175	AR	VALVE SEAT, Insert, Intake Valve, .020", O/S
3	E9NN6057DA	3	INSERT, Exhaust Valve, Std
3	E9NN6057EA	AR	INSERT, Exhaust Valve, .010" (.254mm) O/S
3	C9NN6057L	AR	INSERT, Exhaust Valve, .02" (.508mm), O/S
4	83957026	AR	PLUG, Cylinder Hd, 1.81" (46.05mm)
4	83957022	2	PLUG, Cylinder Hd, 1.18" (30.0mm)
5	83957021	3	PLUG, Cylinder Hd, 1.13" (28.7mm)
6	82016352	1	SWITCH, THERMOGUARD,
7	87802206	10	BOLT, 9/16"-12 x 5.03
8	83960218	2	DOWEL, Split, .676" x 44"
9	87801653	1	GASKET, CYLINDER HEAD,
10	E0NN8575AA	1	THERMOSTAT, 180°
11	E9NN8255AA	1	GASKET,
12	87801484	1	CONNECTOR, HYD., Thermostat
13	42967S36	2	SCREW, Screw, Cap, HH, G8, Self-Locking, 5/16"-18 x 2-3/8"
	80681	2	WASHER, LOCK, 5/16",
	SS301ZDS	2	WASHER, LOCK, Lock, 5/16"
14	87800156	1	BLOCK, Includes: Ref. 15 thru 20
	E2NN6784AA	1	TUBE, For Dipstick
15	83957025	2	PLUG, 1-3/4" (44.5mm)
15	83957023	2	PLUG, 1-1/2" (38.0mm)
15	83957024	AR	PLUG, 1.56" (39.6 mm)
15	83957026	AR	PLUG, 1.81" (46.05mm)
15	383442S	AR	PLUG, .931" (23.65mm), 0/S, Cup Plug
16	502046	1	PLUG, Pipe, 1/8"-27
17	80781	1	PLUG, Sq Hd, 3/8"-18, Pipe, Drain
18	81808472	2	DOWEL, 3/8" x 1-1/8"
19	83956679	1	PLUG, .824" (20.9mm)
20	379548S	8	BOLT, 9/16"-12 x 4.45"
21	87800499	4	BEARING, CAMSHAFT, Front, 60.88mm (2.397") ID
21	87800272	4	BEARING, CAMSHAFT, Camshaft, Front, 60.22mm (2.371") ID
22	E6NN6L626AA	1	INSERT, Oil Cooler Mounting
23	E6NN6B856AA	1	HEAT EXCHANGER, Oil Cooler
24	D7NN6055A	AR	LINER, ENGINE CYLINDER,
25	848216	AR	HOSE, 5/8" ID x 58" Long, Cut to Required Length
26	87802503	1	COVER, Cylinder Front
27	83959876	1	GASKET, Cylinder Front
28	83907851	1	CAP, FILLER, Oil Fill Tube
29	E5NN6C044AA	1	COVER, Engine Front Cover

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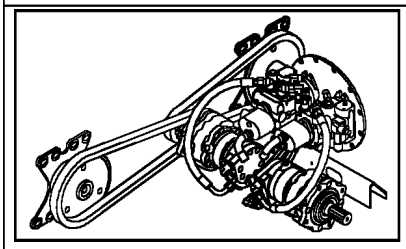
01.02 ENGINE, CYLINDER BLOCK, HEAD & RELATED PARTS





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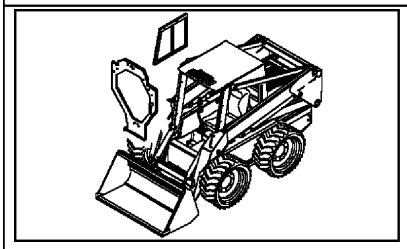
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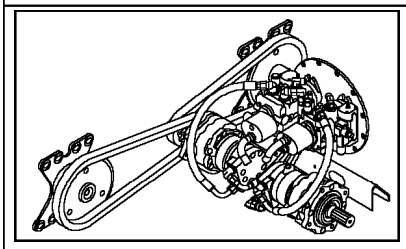
10.01 CAB

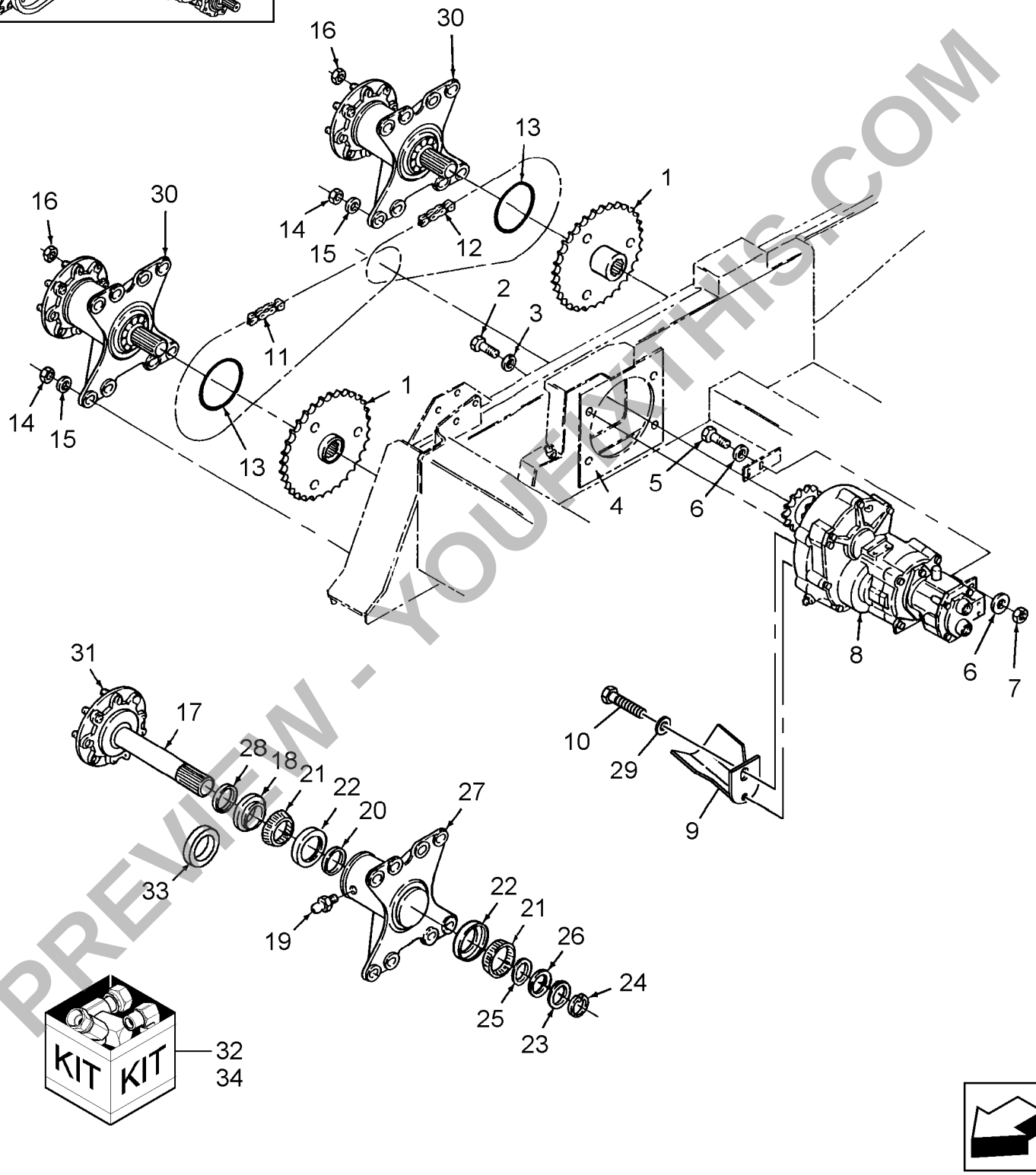


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03.01 FINAL DRIVE

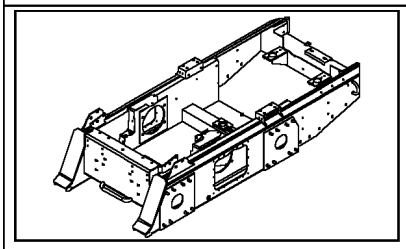




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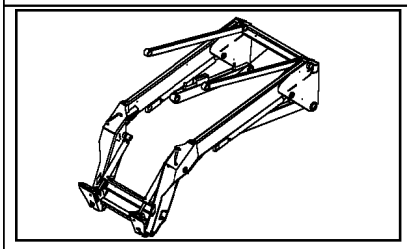
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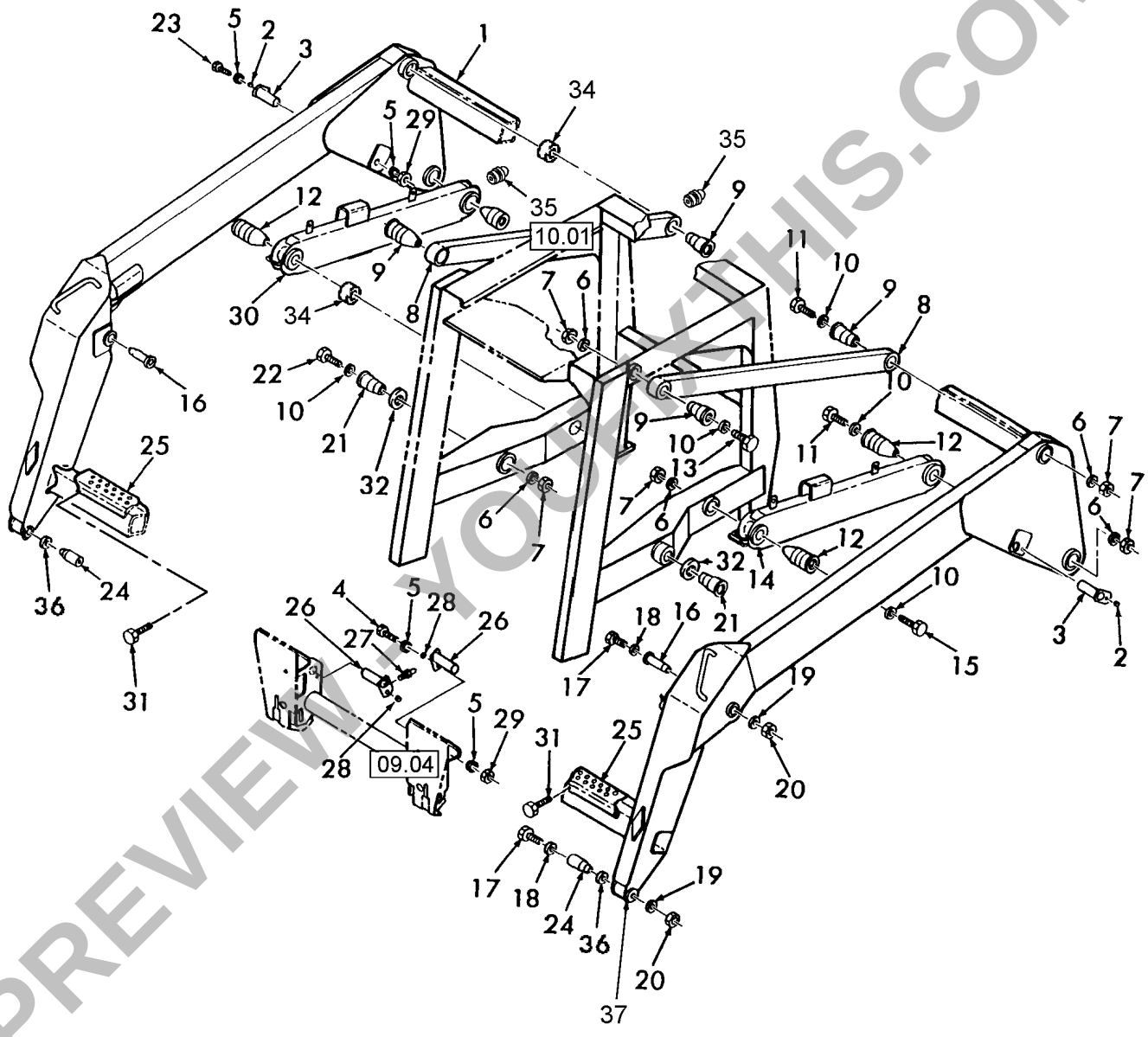
12.01 CHASSIS



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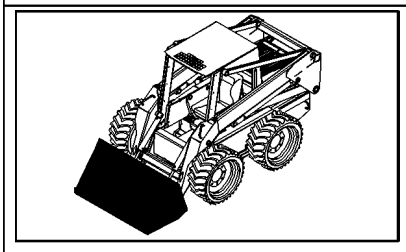




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19.01 BUCKETS & DIRT TOOTH KIT



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00.01 ENGINE PICTORIAL INDEX

Ref	Part Number	Qty	Description

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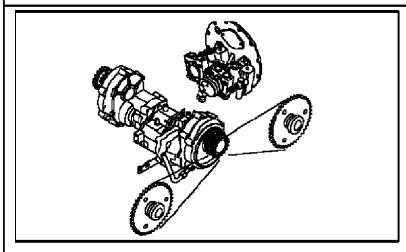
02.00 ENGINE ATTACHING EQUIPMENT PICTORIAL INDEX

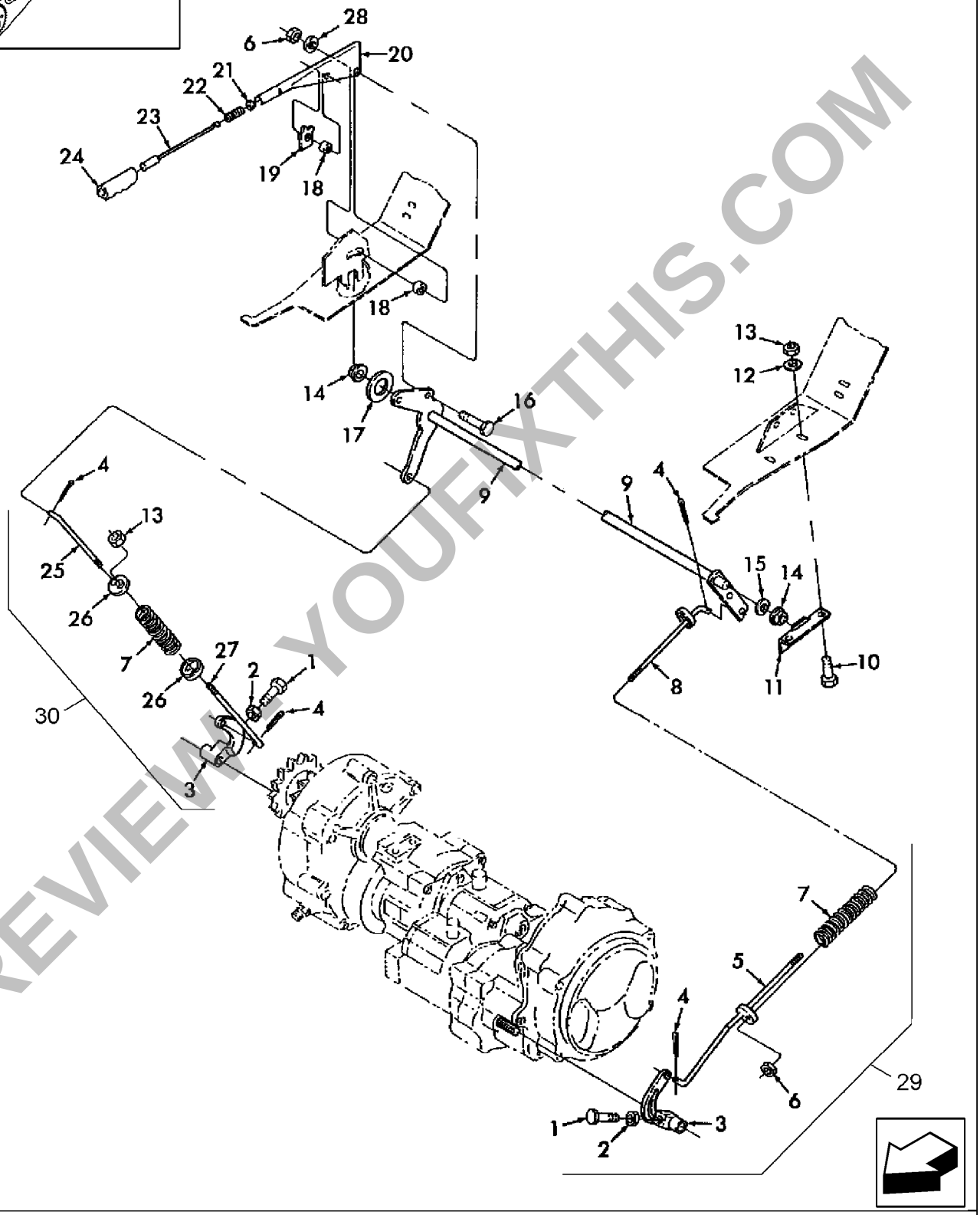
Ref	Part Number	Qty	Description

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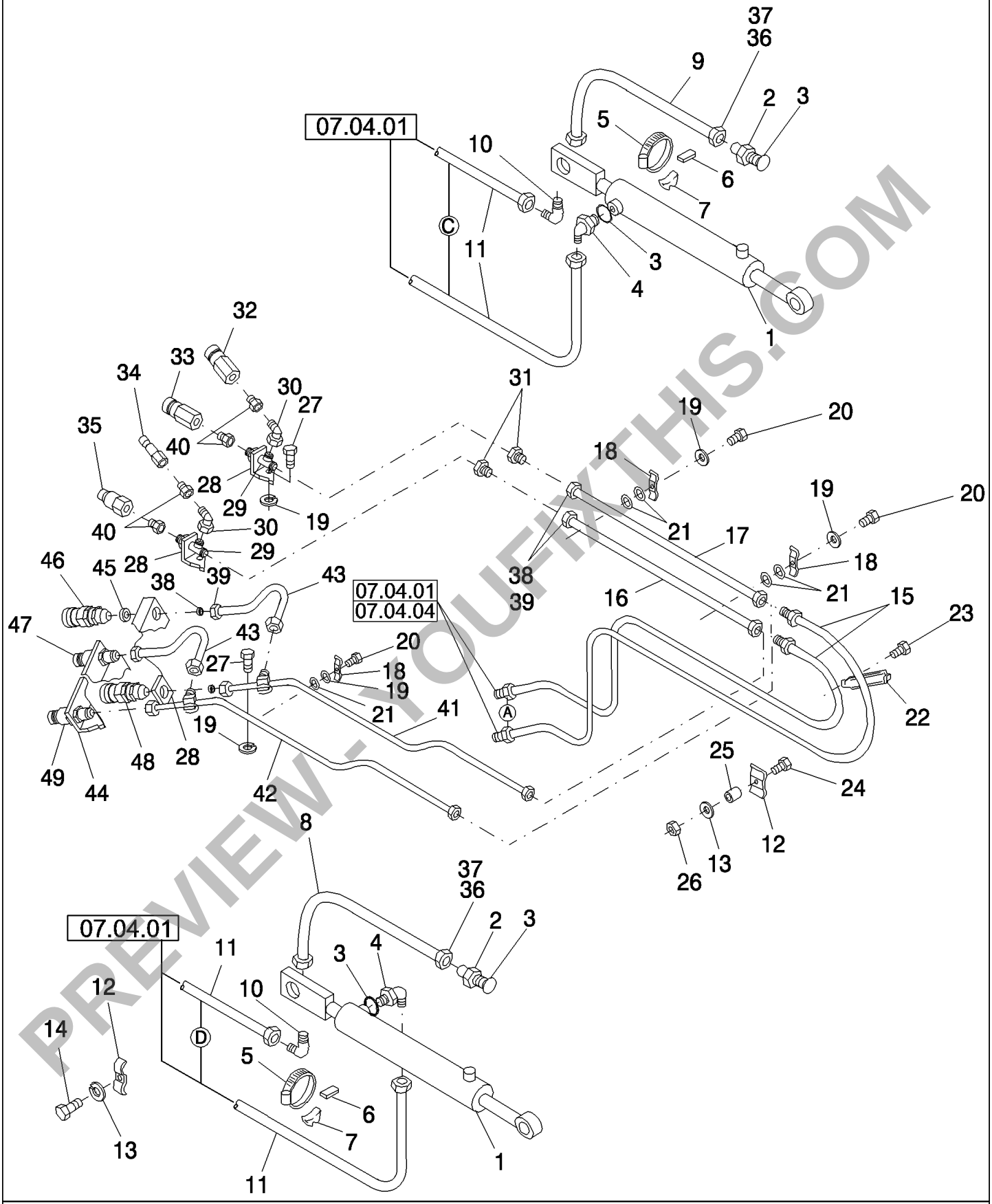
03.08.01 PARKING BRAKE





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07.08.02 REAR AUXILIARY HYDRAULICS

Ref	Part Number	Qty	Description
1	W0		ORDER WHOLEGOODS, Kit, Rear Auxiliary Hydraulics
2	86579899	1	SLEEVE, Protective, Nylon, 2-3/4" ID x 13 Ft, Cut to Required Length
3	86579896	1	HOSE, Return, 56" Long
4	86579894	1	TUBE, HYD, Pressure
5	86513085	2	NUT, TUBE, 37є, 1 1/16"-12, Type B,
6	164912	2	SLEEVE, 37є, 3/4" Tube,
7	86594736	1	BRACKET, Rear Fender Support, Yellow
7	86594737	1	BRACKET, Rear Fender Support, Orange
8	86579890	2	HOSE, 42" Long
9	128825	4	O-RING, 8-1, 90 Duro, .644" ID x .087" Thk,
10	86578721	1	HARNESS, WIRE, Valve
11	86571023	1	VALVE, CONTROL, Eaton, See Figure 07.08.03
11	86600833	1	VALVE, CONTROL, Eaton/Vickers, See Figure 07.08.03
12	86570851	1	COUPLING, 3/8" Male, Bulkhead
13	167080	1	RING, SNAP, #118, Ext,
14	86570850	1	COUPLING, 3/8" Female, Bulkhead
15	271877	1	RING, SNAP, #93, Ext,
16	86584755	1	PLATE, Retaining, Quick Couplers
17	174266	2	GROMMET,
18	86516155	1	SWITCH, Rocker
19	86515264	1	HOUSING, Switch, Front
20	86514912	1	HARNESS, WIRE, Handle
21	86510906	1	HOUSING, Switch, Rear
22	88203	3	SCREW, Slotted Fil Hd, #8-32 x 1 1/2",
23	87653	3	NUT, #8-32,
24	280734	3	WASHER, LOCK, Int Tooth, #8,
25	263117	5	STRAP, CABLE, .14" x 11 1/2", 3/32" x 11-1/2" L
26	322894	2	ELBOW, 90є, 1 1/16"-12, 37є x 1 1/16"-12, O-Ring,
27	167266	2	O-RING, 12-1, 90 Duro, .924 ID x .116" Thk,
28	80015694	1	TEE, 1 1/16"-12 37є, Tee, 37° Flare, 1-1/16"-12
29	236622	1	PLUG, Power Beyond
30	219603	2	ELBOW, 90є, 1 1/16"-12, 37є x 1 1/16"-12, 37є Fem Sw,
31	144124	1	CONNECTOR, HYD., 1 1/16"-12, 37є x 7/8"-14, O-Ring, 1-1/16"-12 Flare x 7/8"-14 O-Ring
32	167269	1	O-RING, 10-1, 90 Duro, .755" ID x .097" Thk,
33	216797	2	ELBOW, 45є, 3/4"-16, 37є x 3/4"-16, O-Ring,

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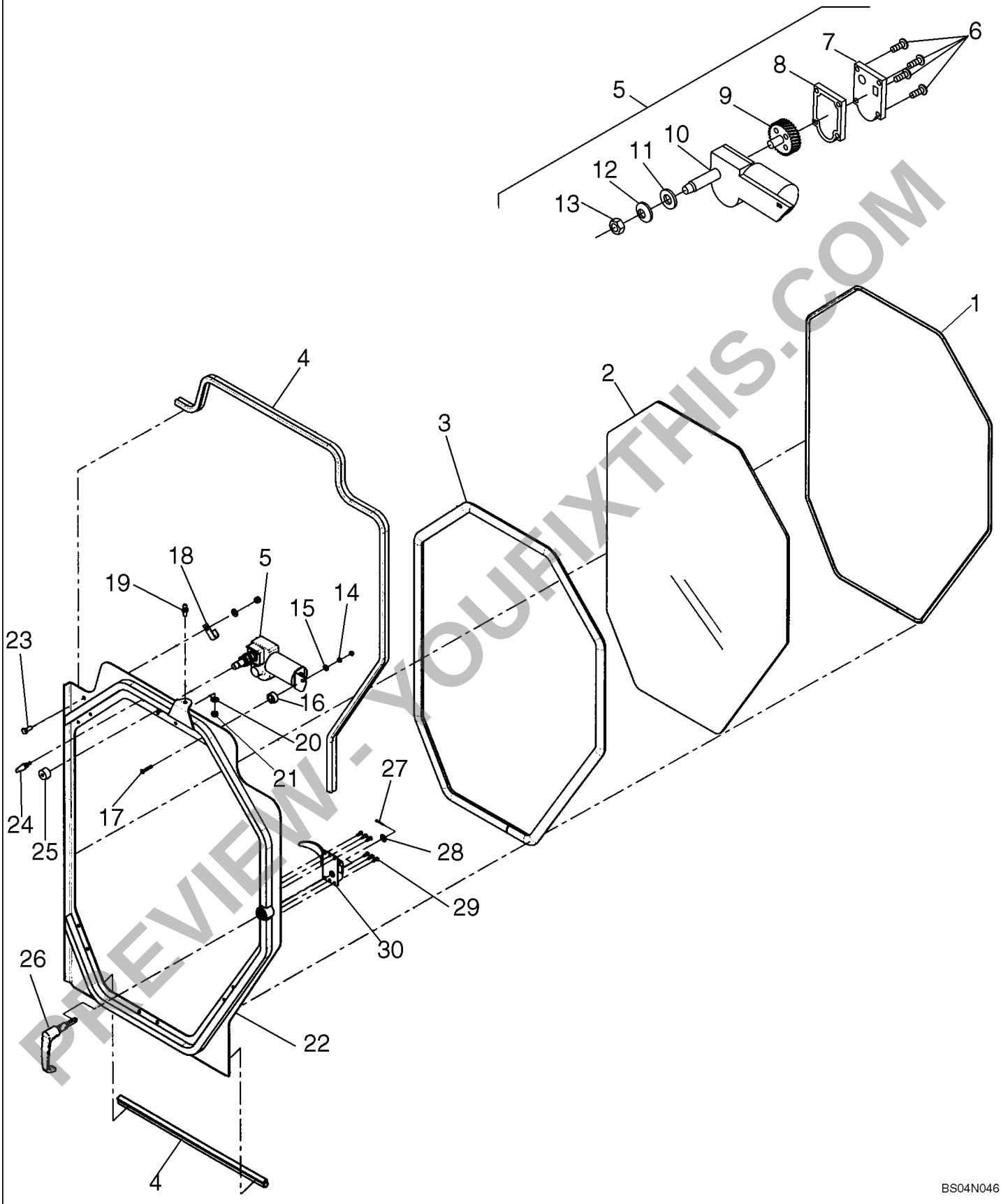
LS180 SKID STEER LOADER (9/99-) - General

09.01 BOOM

Ref	Part Number	Qty	Description
1	86633446	1	BOOM, CE Gray, Incl. Ref. 25 & 37
1	86542659	1	BOOM, Orange, Incl. Ref. 25 & 37
1	87057630	1	BOOM, Boom; Gray; Replaces 86542659, 86633446; Incl. Ref. 25 & 37
2	229398	2	SPACER, 5/8" OD x 3/4" Long
3	86521982	2	PIN, Upper Boom Cylinder
4	88044	2	BOLT, Hex, 3/8"-16 x 1 1/2", G5,
5	285072	8	WASHER, Hardened, 3/8"
6	86509507	10	WASHER, Hardened, 3/4"
7	280375	10	NUT, LOCK, 3/4"-10, GC,
8	86601320	2	LINK, CONNECTING, Upper, Gray, NA, Incl. Ref. 33 - 35
8	86601321	2	LINK, CONNECTING, Upper, Gray, Europe, Incl. Ref. 33 - 35
9	86978752	4	PIN, Upper Link
9	86530214	2	PIN, Offset, Boom Cab Top Link Pivot, See Service Bulletin 1/00-I3
10	86512328	10	WASHER, Hardened, G8, 3/4"
11	280316	4	BOLT, Hex, 3/4"-10 x 7", G5,
12	86837871	4	SPINDLE, Lower Link
12	86640780	2	PIN, Offset, Boom Cab Bottom Link Pivot
13	280120	2	BOLT, Hex, 3/4"-10 x 6", G5, Cap, HH, G5, 3/4"-10 x 6"
14	86643572	1	LINK, CONNECTING, Lower, LH, Yellow, North America, Incl. Ref. 33 - 35
14	86591063	1	LINK, CONNECTING, Lower, LH, Yellow, Europe, Incl. Ref. 33 - 35
14	86533538	1	LINK, LIFT, Lower, LH, Orange, Incl. Ref. 33 - 35
15	281036	2	BOLT, Hex, 3/4"-10 x 7 1/2", G5,
16	86501432	2	PIN, Upper Bucket Cylinder
17	280214	4	BOLT, Hex, 1/2"-13 x 8 1/2", G5,
18	65319	4	WASHER, 33/64" ID x 1" OD x .135" Thick
19	695335	4	WASHER, .528" ID x 1.48" OD x .187"
20	88871	4	NUT, LOCK, 1/2"-13, GC,
21	86978919	2	PIN, Lower Boom Cylinder
22	86502676	2	BOLT, Hex, 3/4"-10 x 8 1/2", G5,
23	9706689	2	BOLT, Hex, 3/8"-16 x 1 3/4", G5,
24	86591515	2	PIN, Mounting Plate
25	86574567	1	FOOT REST, Gray
26	9614349	2	PIN, Lower Bucket Cylinder
27	80710	2	NIPPLE, LUBE, 1/8"-27 x .66 lg,
28	86589143	2	SPACER, 5/8" OD x 1/2" Lg.
29	88902	4	NUT, LOCK, 3/8"-16, GC,
30	86643571	1	LINK, CONNECTING, Lower, RH, Yellow, North America, Incl. Ref. 33 - 35
30	86591067	1	LINK, CONNECTING, Lower, RH, Yellow, Europe, Incl. Ref. 33 - 35
30	86533539	1	LINK, LIFT, Lower, RH, Orange, Incl. Ref. 33 - 35
31	9840344	4	SCREW, Self-Tapping, Sealing, WH, 5/16"-18 x 11/16"
32	86504353	2	SPACER,
33	86521673	6	DECAL, Pinch Area, North America
33	86531262	6	DECAL, Pinch Area, Europe
34	9846562	16	BUSHING, Upper & Lower Links

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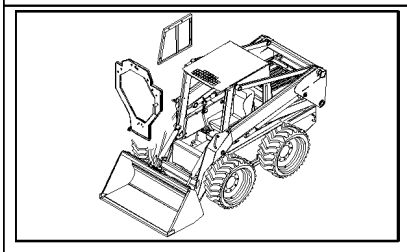
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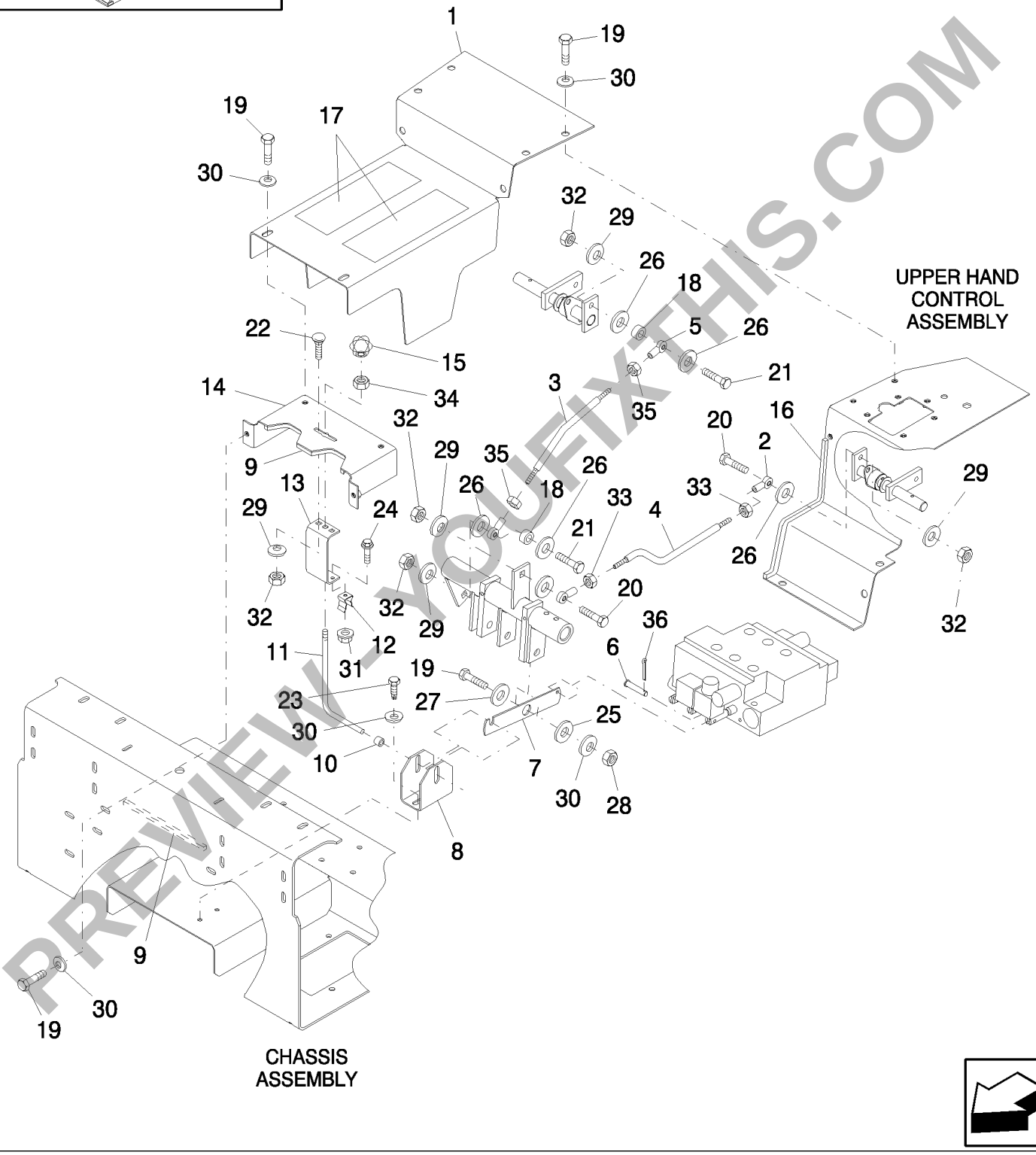


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10.16.04 BOOM & BUCKET HAND CONTROL, TUNNEL COMPONENTS





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