

LS160 SKID STEER LOADER (9/99-) - Engine

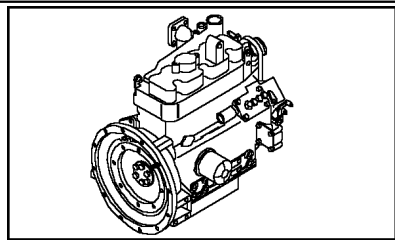
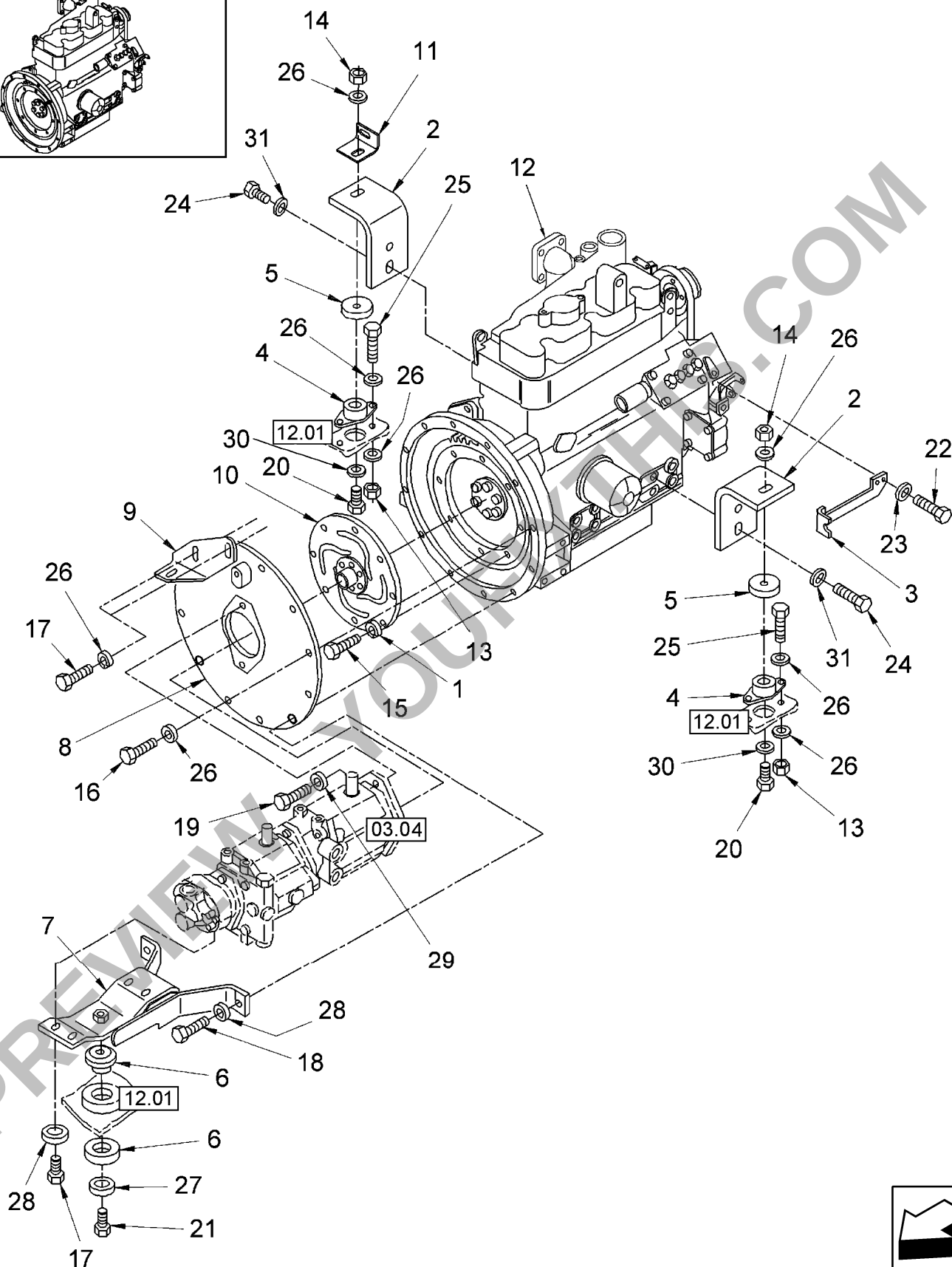
0. 0039 SERVICE MAINTENANCE KIT

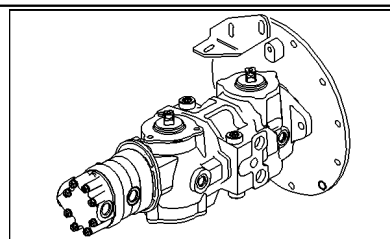
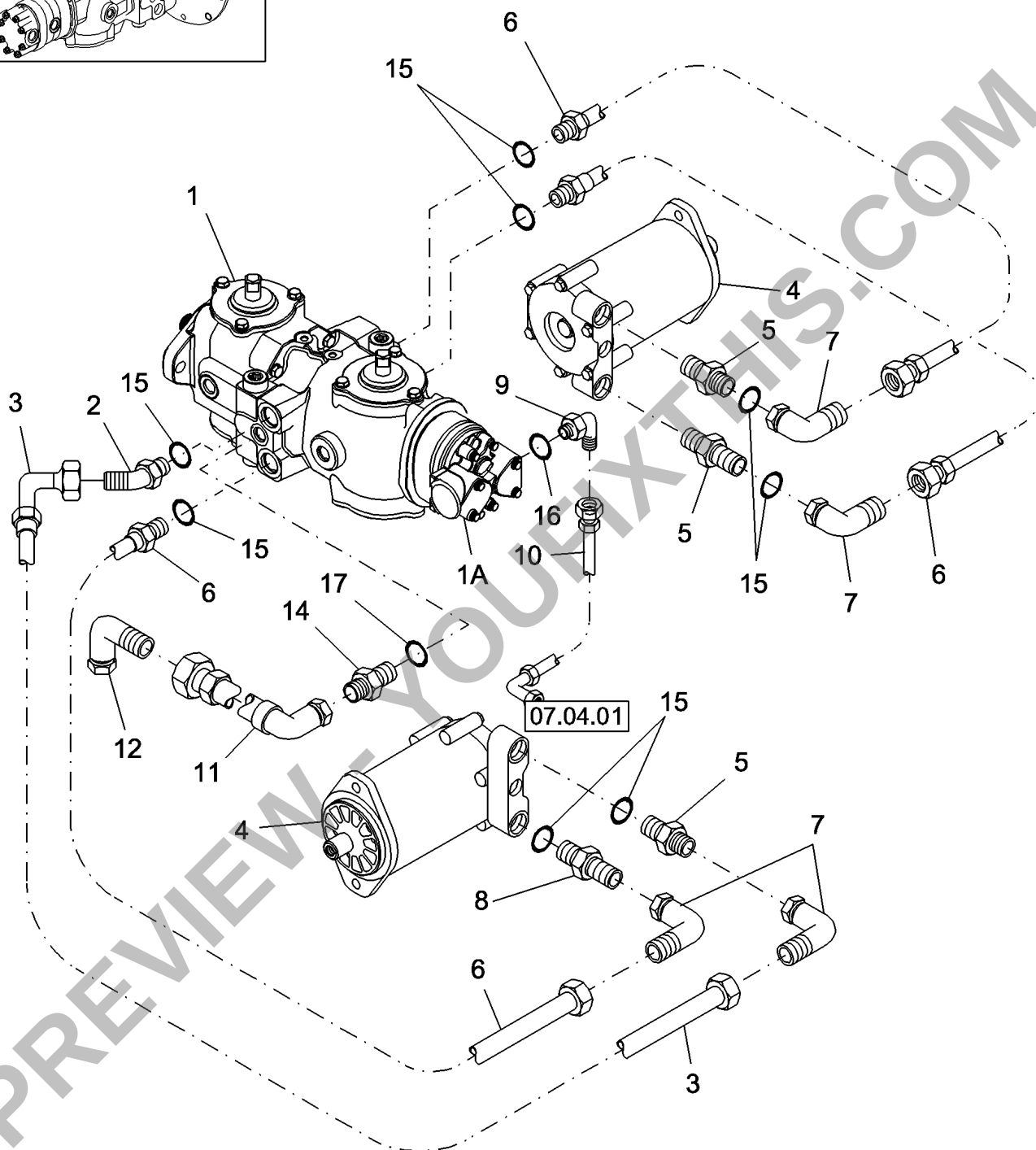
Ref	Part Number	Qty	Description
1	73317380	1	KIT, FIP, 250 hrs
2	73317381	1	KIT,SERV MAINTENANCE, 500 hrs
3	73317382	1	KIT,SERV MAINTENANCE, 1000 hrs
4	73317383	1	KIT,SERV MAINTENANCE, 2000 hrs

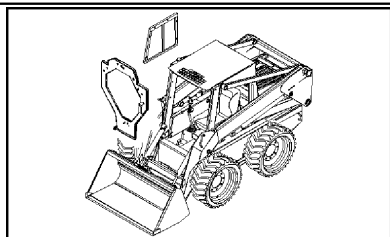
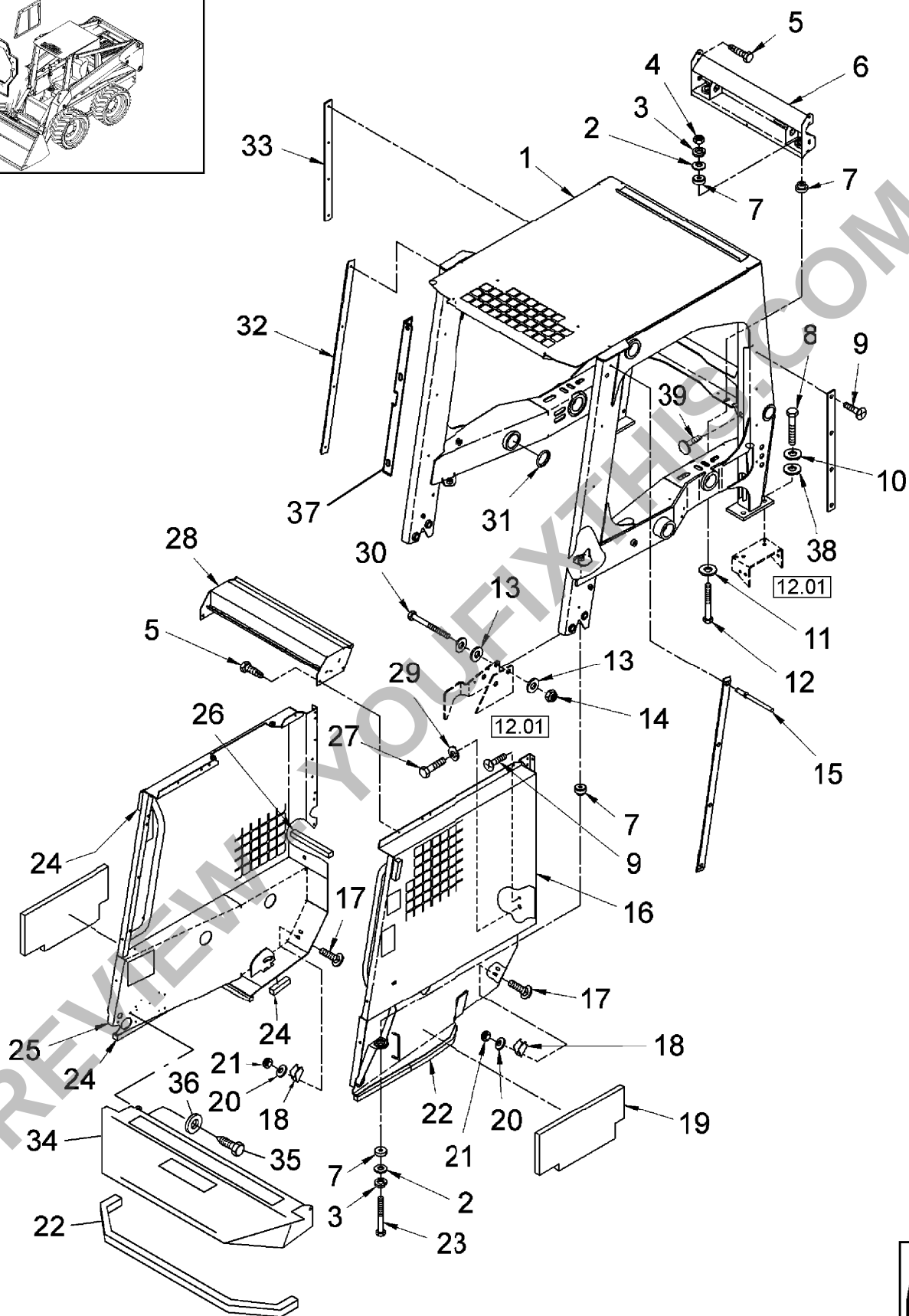
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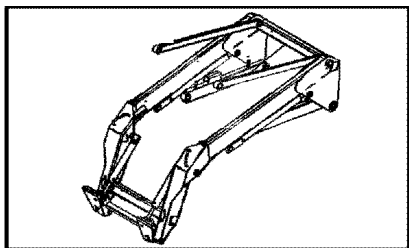
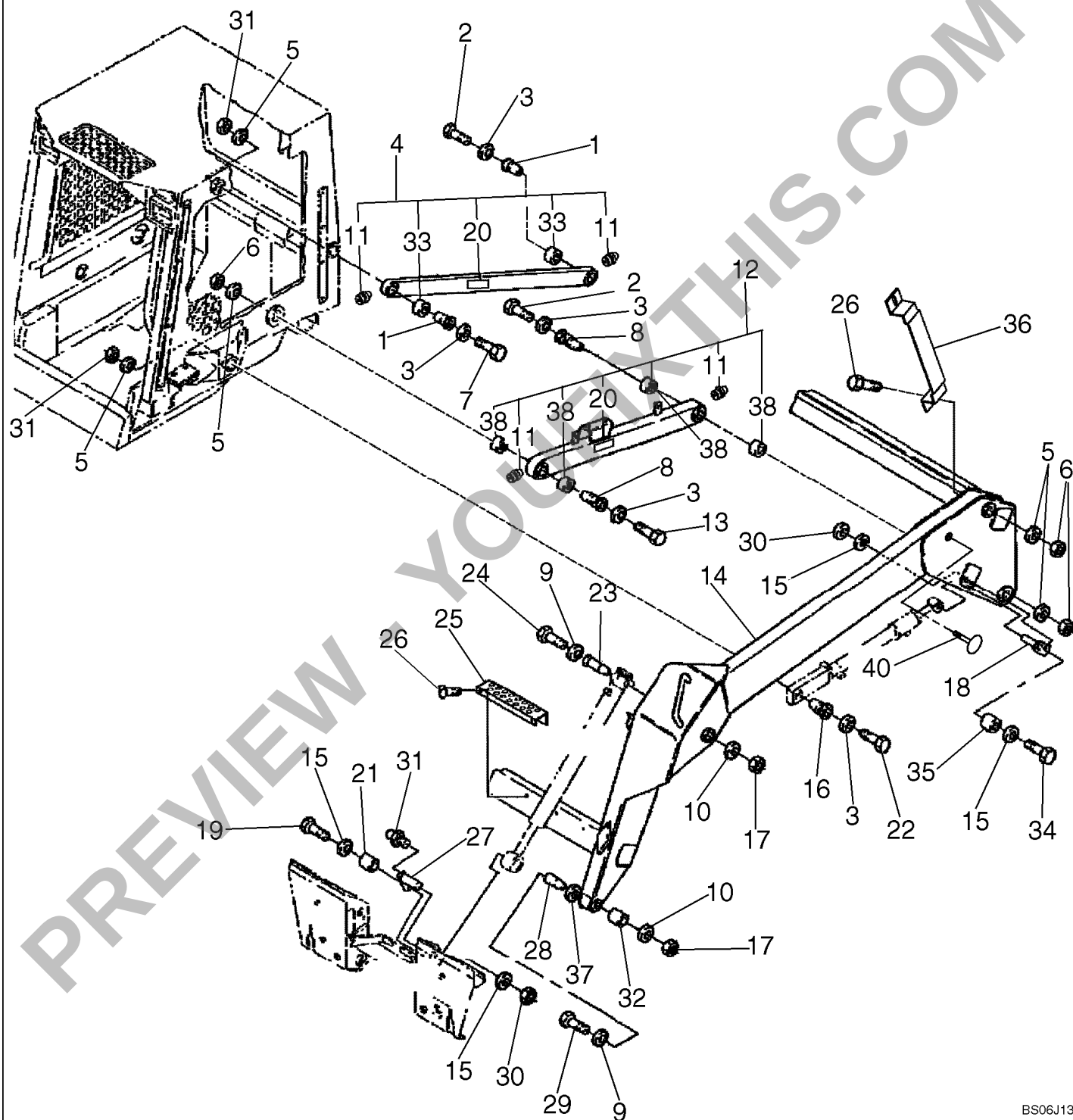
LS160 SKID STEER LOADER (9/99-) - Engine

01.01.01 ENGINE



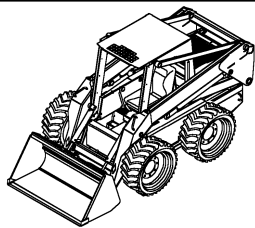
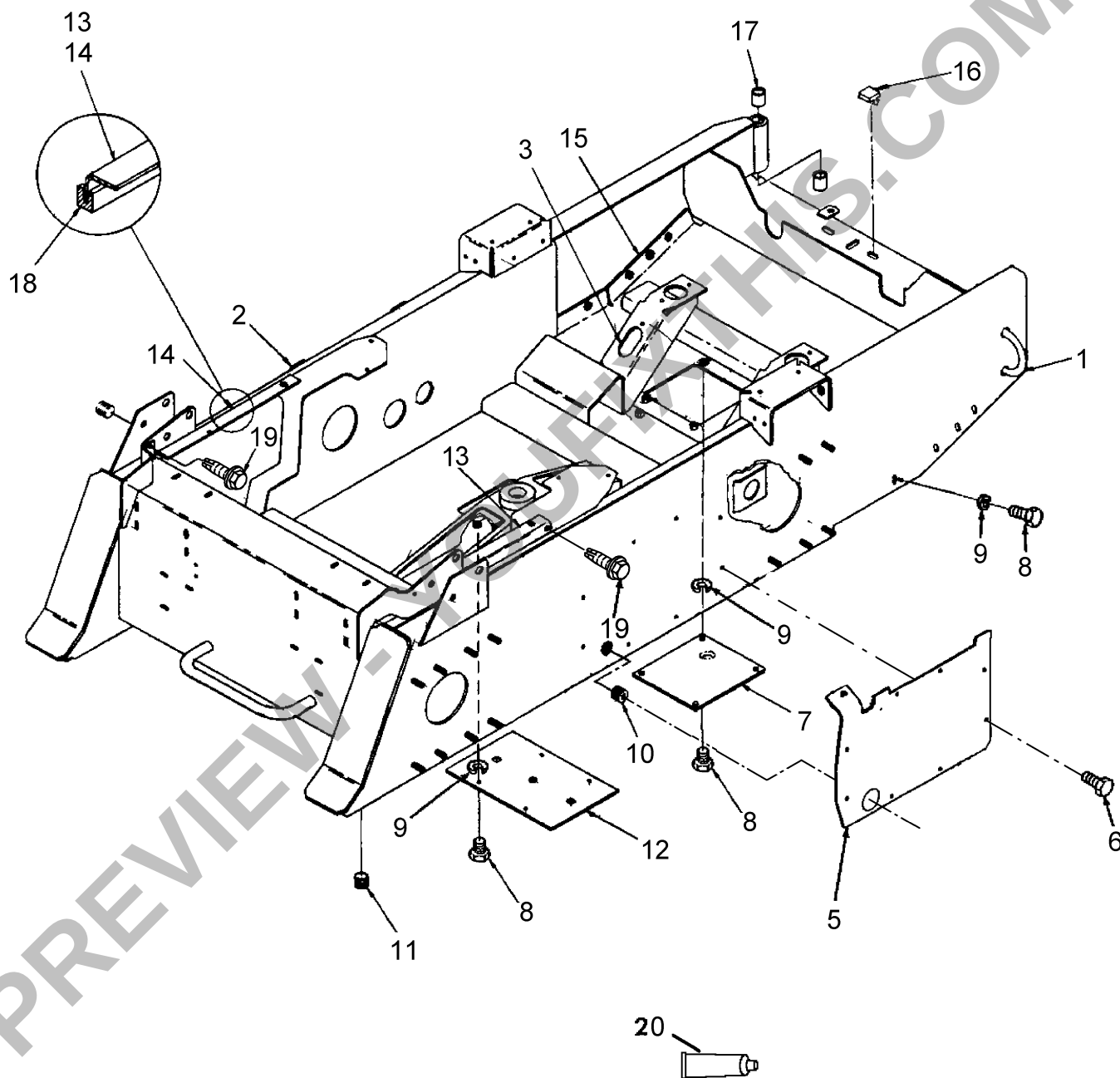


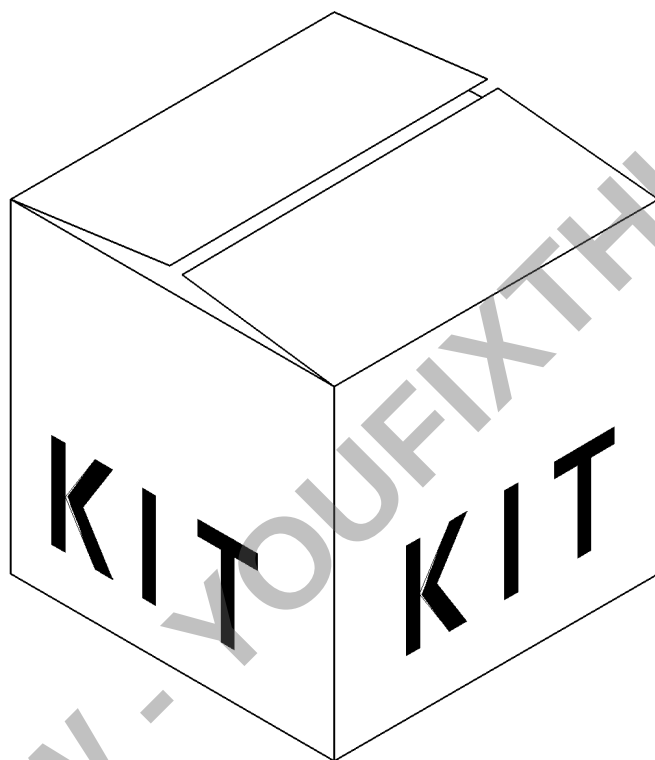




LS160 SKID STEER LOADER (9/99-) - Engine

12.01 CHASSIS, IF USED, SEE TABS ON REF 5





LS160 SKID STEER LOADER (9/99-) - Engine

01.01.01 ENGINE

Ref	Part Number	Qty	Description
1	80681	8	WASHER, LOCK, 5/16",
2	86545777	2	ANGLE, Replaces 86597842
3	86501115	1	MOUNT, ENGINE,
4	9616607	2	INSULATOR, Mount
5	9844141	2	CUP,
6	9844553	1	INSULATOR, Mount
7	86567313	1	SUPPORT, Pump
8	87014569	1	COVER, Housing; Replaces 86567000
9	86567198	1	BRACKET,
10	86521866	1	DISC, Flexplate, Incl. (8) FH 5/16" x 5/8" Rivets
11	86597846	1	ANGLE, 3/16" Thick
11	86606008	1	ANGLE, 1/4" Thick
12	86557220	1	ENGINE, Before Engine S/N 109132; No Longer Available, Order Long Block SBA133640
12	SBA133640	1	ENGINE, Before Engine S/N 109132; Engine Does Not Include Starter, Flywheel, Flywheel Housing, Cooling Fan, Fan Pulley, Fan Belt, Fan Holder, Alternator or Mounting Parts, Exhaust Manifold or Gasket, Oil Cooler
12	86627332	1	ENGINE, LS160 After Engine S/N 109133, SL45
12	87028481	1	ENGINE, LS160, SL45 Tier 2 Engine; LS160 - ASN LMU013613; LS160E - ASN LMU008130
12	ASBA133697	1	ENGINE, LS160, SL45; Tier 2; Long Block Service Engine; Engine Does Not Include Starter, Flywheel Housing, Cooling Fan, Fan Pulley, Fan Belt, Fan Holder, Alternator or Mounting Parts, Exhaust Manifold or Gasket
13	9628503	4	NUT, 3/8"-16, G5,
14	88871	2	NUT, LOCK, 1/2"-13, GC,
15	87872	8	BOLT, Hex, 5/16"-18 x 3/4", G5, Full Thd,
16	88206	10	BOLT, Hex, 3/8"-16 x 1", G5, Full Thd,
17	88011	4	BOLT, Hex, 3/8"-16 x 1 1/4", G5, Full Thd,
18	280589	2	BOLT, Hex, 3/8"-16 x 1 3/4", G8,
19	87689	2	BOLT, Hex, 1/2"-13 x 1 1/2", G5, Full Thd,
20	87339	2	BOLT, Hex, 1/2"-13 x 3", G5,
21	16445	1	BOLT, Hex, 5/8"-11 x 3 3/4", G5,
22	86508568	2	BOLT, Hex, M6 x 16, 8.8,
23	322357	2	WASHER, SPRING, Belleville, M6,
24	9516470	4	BOLT, Hex, M14 x 1.5 x 30, 8.8, Full Thd,
25	87499	4	SCREW, Hex Soc But Hd, 3/8"-16 x 7/8",
26	140045	20	WASHER, SPRING, Belleville, M10,
27	719922	1	WASHER,
28	285072	6	WASHER, Hardened, 3/8"
29	65319	2	WASHER, 33/64" ID x 1" OD x .135" Thick
30	694478	2	WASHER, Hardened, 1/2"
31	143479	4	WASHER, Hardened, 1/2"

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01.17 FUEL INJECTION SYSTEM

Ref	Part Number	Qty	Description
1	SBA131017252	1	PUMP, FUEL INJECTION, See Figure 01.18; Before Engine S/N: LS160, 109132; LS170, 108981
1	SBA131017800	1	PUMP, FUEL INJECTION, Components Not Serviced; After Engine S/N: LS160, 109133; LS170, 108982
1	SBA131017801	1	PUMP, FUEL INJECTION, Components Not Serviced; Replaces SBA131017800
2	SBA131426320	1	KIT, SHIM,
3	9804277	3	NUT, M8 x 1.25, Flg, Cl 8,
4	SBA010800820	3	BOLT,
5	SBA131426200	4	GASKET,
6	SBA131406360	4	INJECTOR, FUEL SYSTEM,
7	SBA131606661	1	TUBE, Return; Before Engine S/N: LS160, 109132; LS170, 108981
7	SBA131606440	1	TUBE, Return; After Engine S/N: LS160, 109133; LS170, 108982
8	SBA131507560	1	TUBE, Injection; Before Engine S/N: LS160, 109132; LS170, 108981
8	SBA131507601	1	TUBE, Injection; After Engine S/N: LS160, 109133; LS170, 108982
9	SBA131507570	1	TUBE, Injection; Before Engine S/N: LS160, 109132; LS170, 108981
9	SBA131507611	1	TUBE, Injection; After Engine S/N: LS160, 109133; LS170, 108982
10	SBA131507580	1	TUBE, Injection; Before Engine S/N: LS160, 109132; LS170, 108981
10	SBA131507621	1	TUBE, Injection; After Engine S/N: LS160, 109133; LS170, 108982
11	SBA131507590	1	TUBE, Injection; Before Engine S/N: LS160, 109132; LS170, 108981
11	SBA131507631	1	TUBE, Injection; After Engine S/N: LS160, 109133; LS170, 108982
12	SBA199106020	6	CLAMP,
12	SBA199106021	4	CLAMP, Replaces SBA199106020
13	86977786	3	BOLT, Hex, M6 x 25, 8.8,
14	9804276	3	NUT, M6 x 1, Flg, Cl 8,
15	SBA185366190	4	GLOW PLUG,
16	SBA185376150	1	BRACKET,
17	SBA130996130	1	GASKET,
18	SBA165206640	1	COVER,
19	SBA011310612	2	SCREW, M6 x 12
20	SBA185206083	1	SOLENOID,
21	SBA025100016	1	WASHER, Seal
22	SBA198487460	1	BOLT, BANJO, Bleeder, M6 x 16; Before Engine S/N: LS160, 109132; LS170, 108981
22	SBA198487450	1	SCREW, After Engine S/N: LS160, 109133; LS170, 108982
23	SBA025100006	2	WASHER, Seal; Before Engine S/N: LS160, 109132; LS170, 108981
23	SBA025100008	2	WASHER, Seal; After Engine S/N: LS160, 109133; LS170, 108982

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03.01 FINAL DRIVE

Ref	Part Number	Qty	Description
	9805318		AXLE, Complete Axle Assy., Incl. Ref 4 (9841453), Ref 7 (9829882), 8, 9, 12 (675608), 14, 15, 15, 16, 18 (86594882), And 19
1	86629728	2	CHAIN, Roller, Endless, RC 80, 66 Pitches
2	9841242	4	SPROCKET,
3	86504449	4	O-RING, 6-1/2" ID x .139" Thick
4	86546633	4	AXLE, FRONT, Incl. Axle Assy 9841453 With Rust Inhibitor Applied; Replaces 9841453 Axle Assy W/O Rust Inhibitor Applied
4	9841453	1	AXLE, FRONT, Axle Assy W/O Rust Inhibitor; Incl. (8) Ref. 6
5	86979742	32	NUT, Lug
6	175617	32	BOLT, Wheel, Fillister Hd, Rib Neck, 9/16"-18 x 2-1/4"
7	9829882	4	SLEEVE, Wear
7	87023704	4	SLEEVE, Wear
8	87414	4	NIPPLE, LUBE, 1/4"-28 x .56" lg, Drive,
9	9829877	4	SEAL, Triple-lip
10	408	32	NUT, 5/8"-18, G5,
11	86528652	32	WASHER, 5/8" ID x 1-1/2" OD
12	675608	8	BEARING, ROLLER, TAPERED, Incl. Ref. 26, 27
12	679394	8	BEARING, ROLLER, Incl. Ref. 26 , 27
13	86537848	8	SEALANT, Silicone Rubber, 10.3-oz Tube
14	612778	4/ARSHIM, .020" Thick	
15	86501184	4	RING, SNAP, #200, Ext,
16	9841237	4/ARSHIM, .010" Thick	
17	9860108	32	BOLT, Rib Neck, G5, 5/8"-18 x 1-3/4"
18	86594882	4	SUPPORT, Axle
18	87026231	4	SUPPORT, Axle
19	603916	4	SEAL,
20	0C	1	ORDER COMPONENTS, Gearbox, LH & RH, See Figure 03.01.01
21	86518704	2	SCREW, Cap, Drilled, G8, 5/8"-11 x 1-1/4"; LS160: ASN 157278 North America, 197395 Europe, 452169 Fiat Hitachi, All Fiat Kobelco, LS170: ASN 169127 North America, 179197 Europe, 453197 Fiat Hitachi, All Fiat Kobelco
22	9829928	2	CHAIN, Roller, Endless, RC 80, 68 Pitches
23	281047	10	BOLT, Hex, 5/8"-11 x 1 1/4", G8, Full Thd, LS160: ASN 157278 North America, 197395 Europe, 452169 Fiat Hitachi, All Fiat Kobelco, LS170: ASN 169127 North America, 179197 Europe, 453197 Fiat Hitachi, All Fiat Kobelco
24	140048	10	WASHER, SPRING, Belleville, M16,
25	86643912	4	KIT, SERVICE, Axle Repair, Incl. Ref. 3, 7, 9, 12, 14, 15, 16 & 19
26	287902	8	BEARING, CONE,
27	287066	8	BEARING, CUP,

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03.06.02 PISTON PUMP, CENTER MANIFOLD BLOCK

Ref	Part Number	Qty	Description
1	86589830	4	VALVE, PRESSURE RELIEF, Incl. Ref. 2
2	167266	4	O-RING, 12-1, 90 Duro, .924 ID x .116" Thk,
3	86590562	1	PLUG, Hex Soc, 3/4"-16 ORB, Incl. Ref. 4
4	128825	1	O-RING, 8-1, 90 Duro, .644" ID x .087" Thk,
5	280165	8	BOLT, Hex, 3/8"-16 x 1 1/4", G8, Full Thd,
6	9790712	8	WASHER, Hardened, 3/8"
7	86589829	1	MANIFOLD, Center, Incl. Ref. 8 - 10
8	86591904	1	COUPLING,
9	272499	2	BEARING ASSY,
10	88180	2	PIN, LOCK, 3/16" x 5/8", Slotted,

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06.01 MAIN ELECTRIC

Ref	Part Number	Qty	Description
24	86530530	1	PLATE, Old Style Headliner; Not Illustrated
24	86620910	1	PLATE, New Style Headliner
25	86584195	1	BOLT, Hex, 5/16"-18 x 3 3/4", G2, Full Thd,
26	86544447	1	SWITCH, Service/Run
27	86500940	6	SCREW, SELF TAPPING, Hex Wash Hd, #10 x 3/4",
28	9635082	1	NUT, 5/16"-18, G5,
29	9827549	1	CIRCUIT BREAKER, Preheat; Texas Instrument; If Used
29	87049165	1	CIRCUIT BREAKER, Preheat; Cole Hersee; If Used
30	80707	4	WASHER, 3/16",
31	87825	2	NUT, #10-32,

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06.03.02 HORN - DELUXE CAB

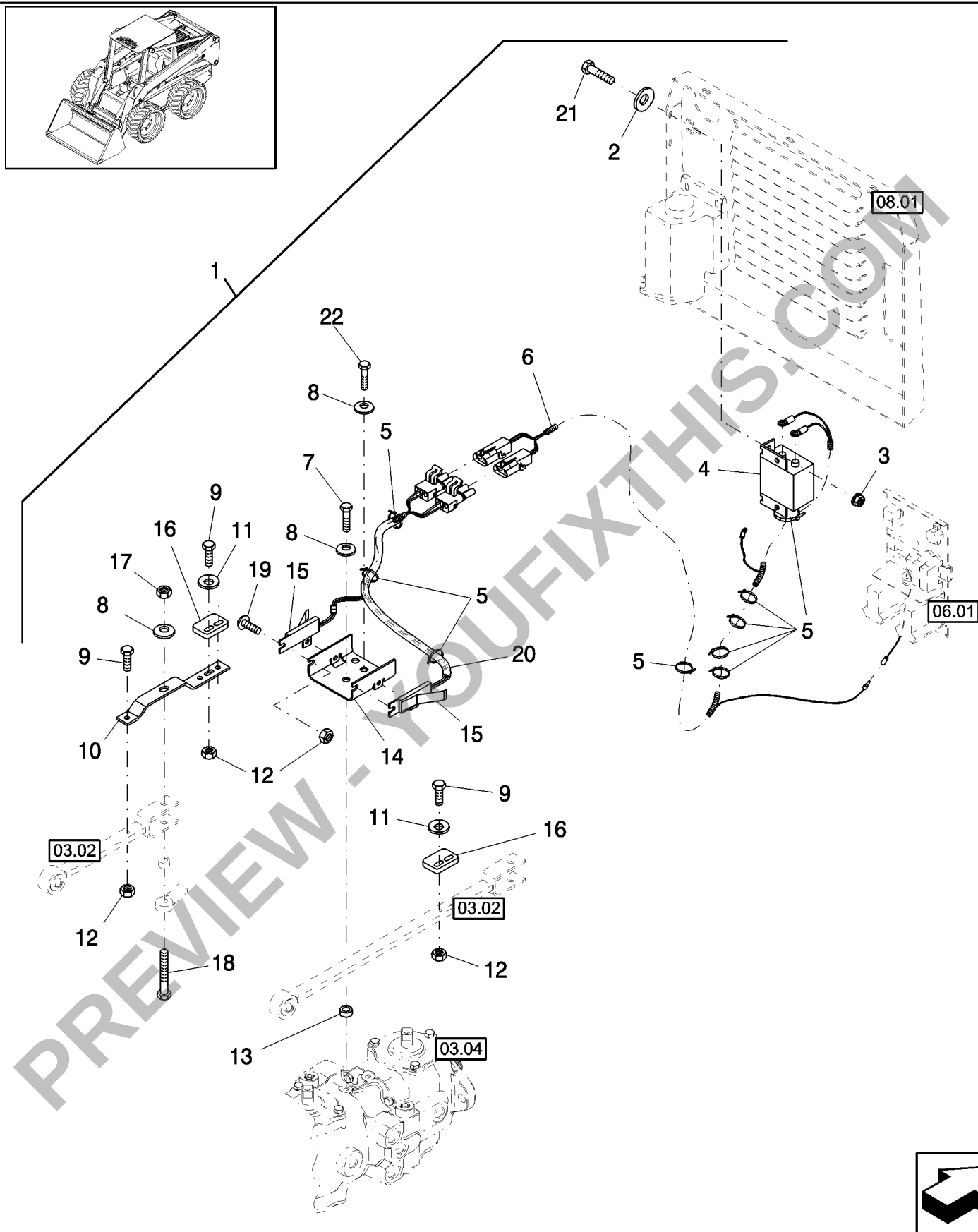
Ref	Part Number	Qty	Description
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1	87599754	1	HORN,
2	87015862	1	BOLT, Hex Flg, M6 x 20, 8.8, Full Thd,
3	86981460	1	Hex Nut, M6

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06.04.01(04) BACK-UP ALARM KIT

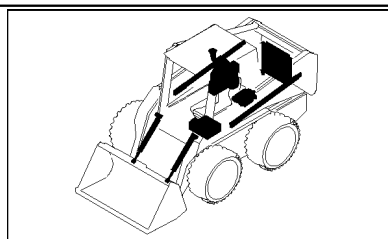
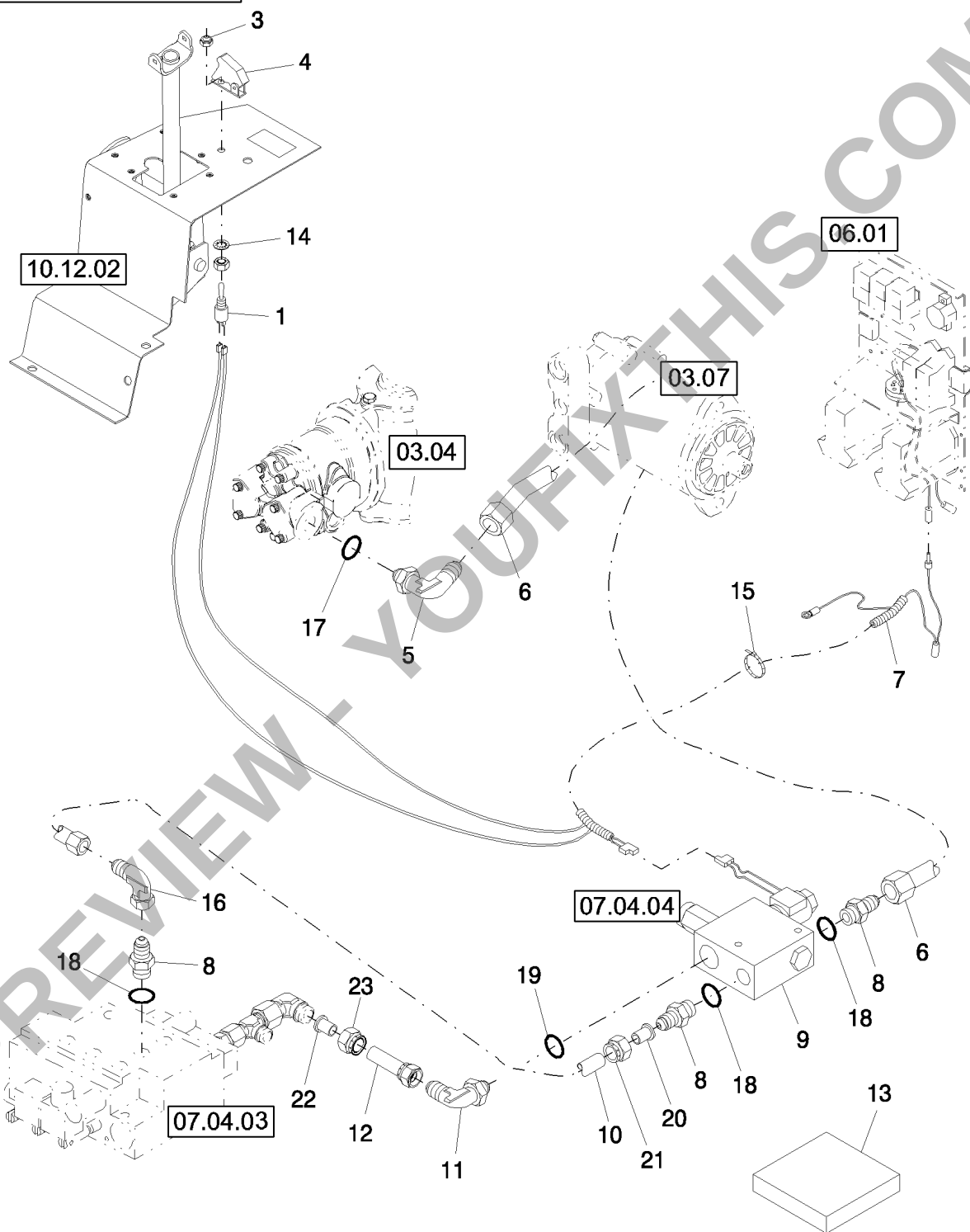


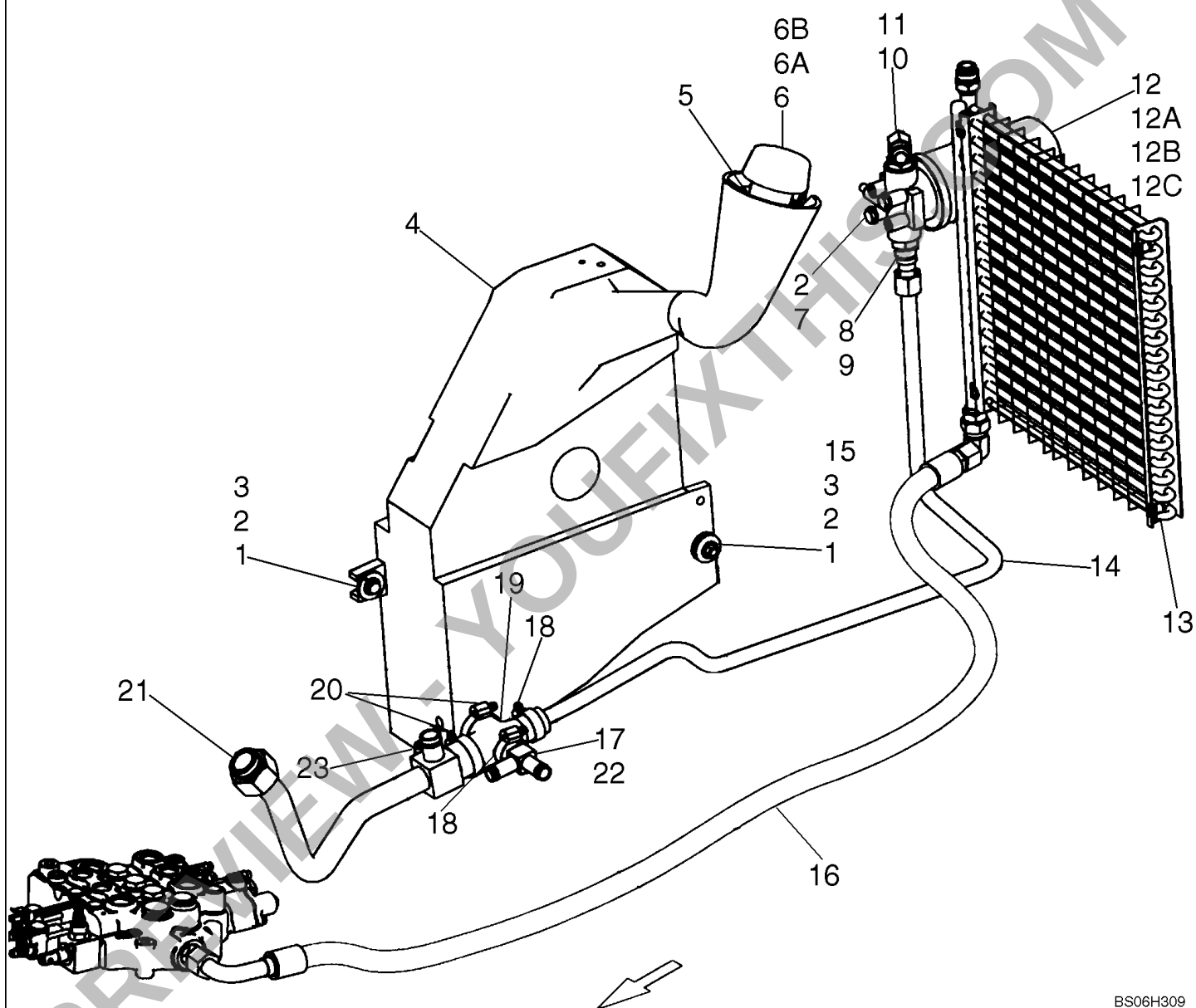
If your switch has a 3/4" wide Y shaped lever, refer to the 86597603 switch in the LS180 catalog.

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07.01.03(01) BOOM HYDRAULICS, STANDARD/HIGH FLOW - MODELS WITH PILOT CONTROL

Ref	Part Number	Qty	Description
1	513307	4	CLAMP,
2	782673	4	STRIP, ANTI-SKID, 1" x 2-1/2"
3	640682	4	SPACER,
4	128818	2	CONNECTOR, HYD., 3/4"-16, 37e x 3/4"-16, O-Ring, Incl. 5
5	128825	1	O-RING, 8-1, 90 Duro, .644" ID x .087" Thk,
6	86570152	1	TUBE, HYD, Incl. 7, 8
7	235671	1	SLEEVE, 37e, 1/2" Tube,
8	129428	2	NUT, TUBE, 37e, 3/4"-16, Type B,
9	128822	2	UNION, 3/4"-16, 37e x 3/4"-16, 37e,
10	86570153	4	HOSE, 47" Lg.
11	128830	2	ELBOW, 90e, 3/4"-16, 37e x 3/4"-16, O-Ring, Incl. 12
12	128825	1	O-RING, 8-1, 90 Duro, .644" ID x .087" Thk,
13	86570151	1	TUBE, HYD, Incl. 14, 15
14	235671	1	SLEEVE, 37e, 1/2" Tube,
15	129428	2	NUT, TUBE, 37e, 3/4"-16, Type B,





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07.10.03 VALVE ASSY - MOUNTING PLATE

Ref	Part Number	Qty	Description
	86635833	1	VALVE, CONTROL, Incl. Ref. 1 - 9
1	86629792	1	VALVE, SOLENOID,
2	87027734	1	VALVE, SOLENOID, Sequencing
3	86634904	2	COIL,
4	86643552	2	KIT, Housing
5	86976100	1	KIT, SEALS, Valve Spool
6	86509023	1	KIT, SEALS, Sequencing Valve
7	86635834	1	SPACER,
8	NSS	8	NOT SERVICED SEPARATELY, Expander Plugs
9	NSS	1	NOT SERVICED SEPARATELY, Manifold Housing

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08.04.06 DECALS - BRAZILIAN PORTUGUESE, CANADIAN FRENCH, LATIN AMERICAN SPANISH

Ref	Part Number	Qty	Description
7	87559313	1	Attention, High Flow - French
8	9862234	1	DECAL, Danger, Exit - French
9	86509998	1	DECAL, Danger, Tilt Cab - French
10	86500527	1	DECAL, Warning, Read Operator's Manual - French
11	86517440	1	DECAL, Important, Starting/Shutdown - French
12	9862236	1	DECAL, No Riders - French
13	87559314	1	Caution, Rating - L160 - French; Not Illustrated; See Figure 08.04.01 For English Version
13	87559315	1	Caution, Rating - L170 - French; Not Illustrated; See Figure 08.04.01 For English Version

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08.06.06 ACOUSTICAL EQUIPMENT - MUFFLER WRAP (LS160)

Ref	Part Number	Qty	Description
1	87361630	1	GUARD, Muffler Wrap, Sound Control
2	87393399	4	SPRING,

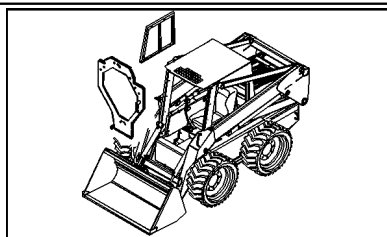
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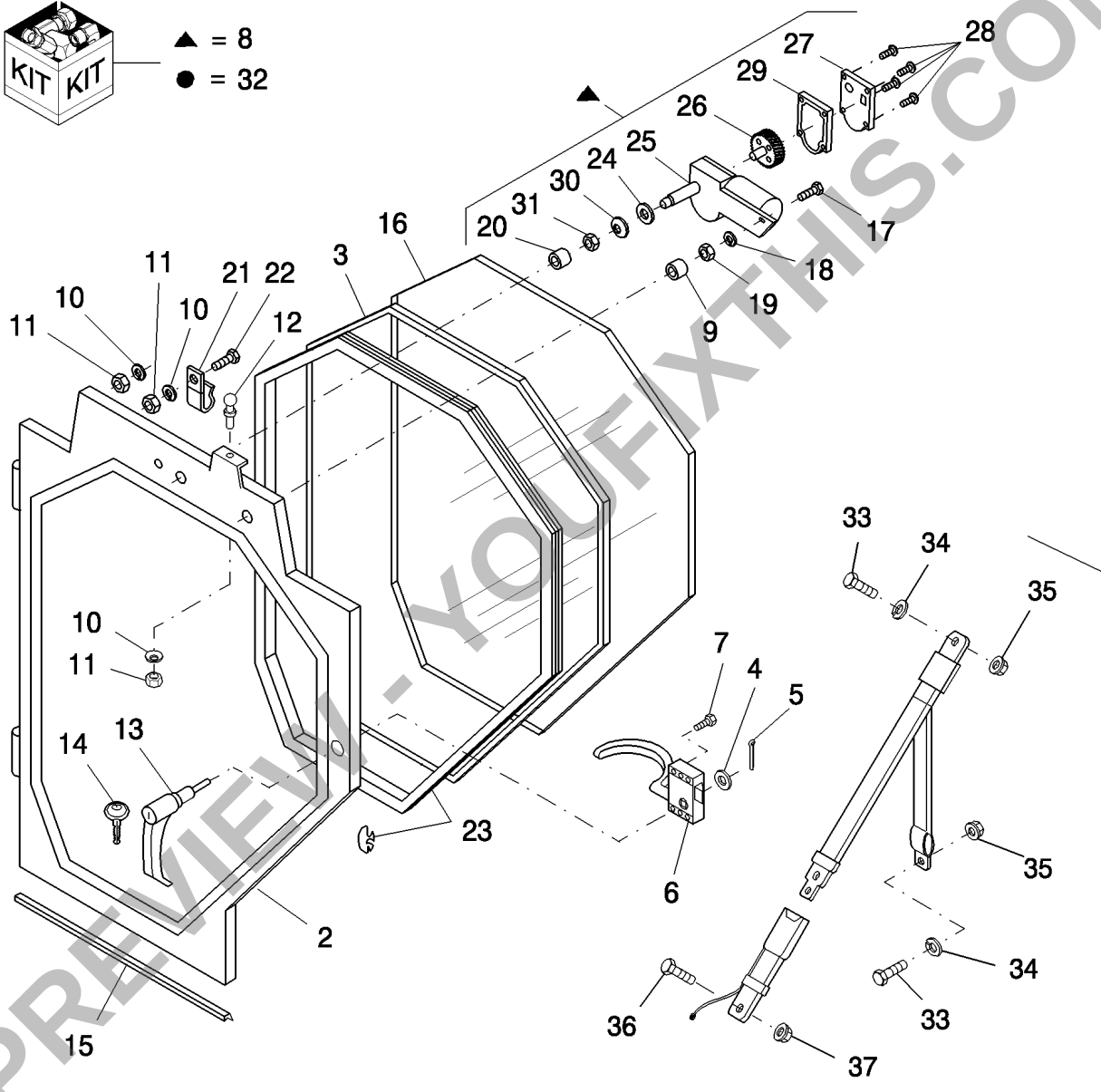
10.02.02 HEADLINER, NEW STYLE (8/02-)

Ref	Part Number	Qty	Description
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	REF		INSTRUCTION, Models Without Heater, AC
1	84320263	1	PLUG,
2	86620930	5	FASTENER,
	86729680	1	LINER, Headliner; Fabric; Incl. 3 - 7
3	86620865	1	LINER,
4	NSS	2	NOT SERVICED SEPARATELY, Trim
5	86729672	1	PANEL, CONTROL,
6	86729681	1	DECAL,
7	86016884	4	SCREW, SELF TAPPING, Cross Pan Hd, #6 x 3/4",



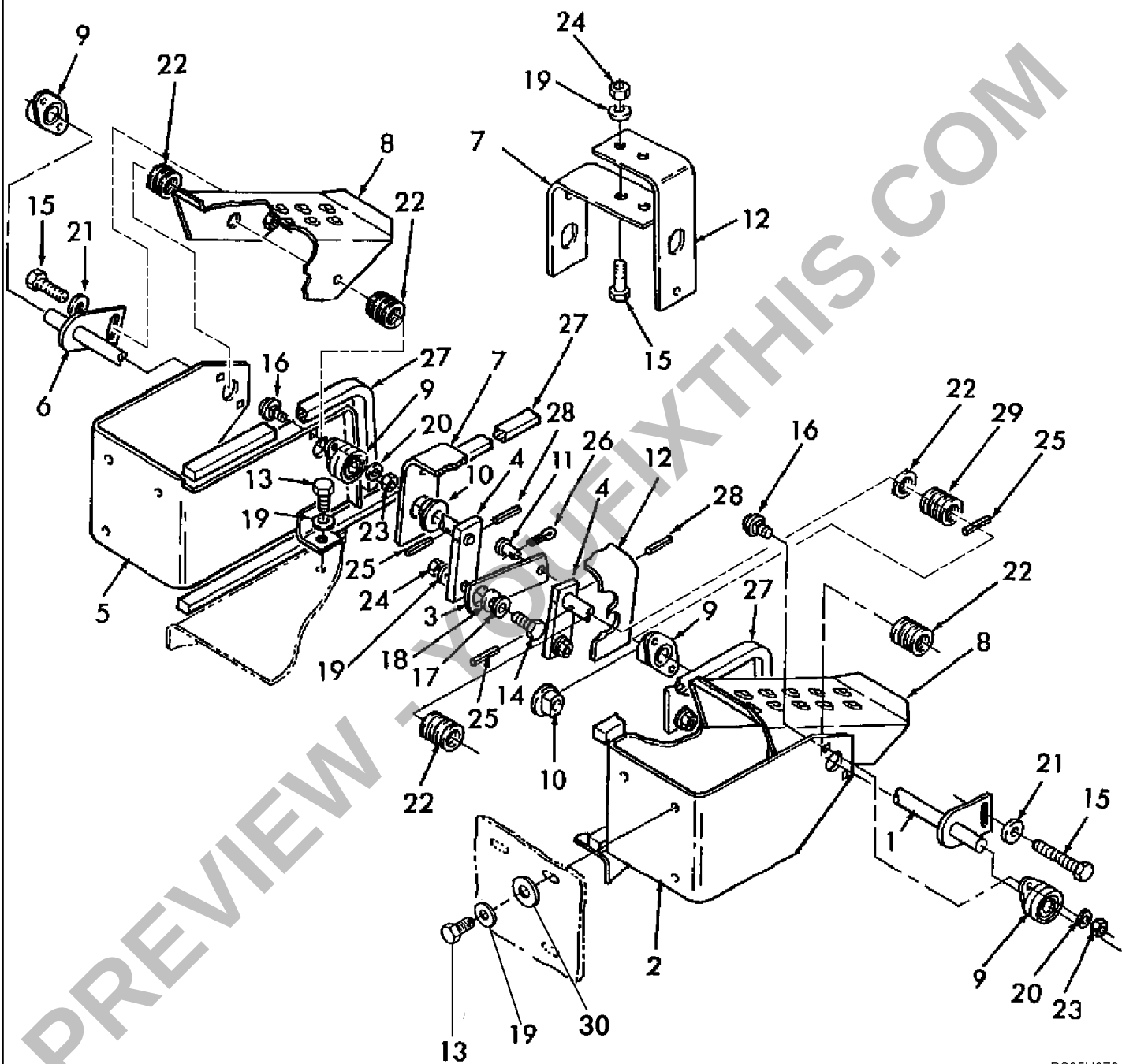
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10.10 FOREARM REST KIT

Ref	Part Number	Qty	Description
1	86589362	2	PAD, RUBBER, 3" x 3" Adhesive Backing
2	86602768	2	SUPPORT,
3	621326	2	PAD,
4	SS31679DS	2	PIN, ROLL, 5/16" x 1-1/4"
5	86580786	2	ARM,
6	280618	4	BOLT, CARRIAGE, Short NK, 5/16"-18 x 2", G5,
7	637964	4	SCREW, SELF TAPPING, HS, 3/8"-16 x 3/4"
8	285072	4	WASHER, Hardened, 3/8"
9	80664	4	WASHER, 5/16",
10	86629544	4	NUT, LOCK, 5/16"-18, GB,
11	86589170	1	KIT, SERVICE, Forearm Rest, Incl. Ref. 1 - 10; One Kit Will Service Both Left And Right Sides



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10.22.01 HANDLE, CONTROL, RIGHT HAND

Ref	Part Number	Qty	Description
	REF		INSTRUCTION, For Hand Control Figure 09-29A, Foot Control Figure 09-35A
1	87353708	1	HANDLE, Control, RH; Horn; Incl. 2, 3
2	86837247	2	SCREW, #4-40 x 1 1/4", w/LW, Faceplate
3	87427352	1	SWITCH, Trigger, On/Off; Horn
4	87353710	1	HANDLE, Control, RH; Horn, Turn Signal; Incl. 5 - 7
5	86837247	2	SCREW, #4-40 x 1 1/4", w/LW, Faceplate
6	87427352	1	SWITCH, Trigger, On/Off; Horn
7	87427353	1	SWITCH, Rocker, D-O-D, Turn Signal
8	87353711	1	HANDLE, Control, RH; Horn, Turn Signal, Two Speed; Incl. 9 - 16
9	86837247	2	SCREW, #4-40 x 1 1/4", w/LW, Faceplate
10	87427352	1	SWITCH, Trigger, On/Off; Horn
11	87427353	1	SWITCH, Rocker, D-O-D, Turn Signal
12	87447407	1	SWITCH, Rocker, On/Off; Two Speed
13	87353709	1	HANDLE, Control, Two Speed; Incl. 14 - 16
14	86837247	2	SCREW, #4-40 x 1 1/4", w/LW, Faceplate
15	87427352	1	SWITCH, Trigger, On/Off; Horn
16	87447407	1	SWITCH, Rocker, On/Off; Two Speed
17	87353712	1	HANDLE, Control, RH; Horn, Turn Signal, Two Speed; Secondary Auxiliary; Incl. 18 - 22
18	86837247	2	SCREW, #4-40 x 1 1/4", w/LW, Faceplate
19	87427352	2	SWITCH, Trigger, On/Off; Horn
20	87427353	1	SWITCH, Rocker, D-O-D, Turn Signal
21	87447407	1	SWITCH, Rocker, On/Off; Two Speed
22	87427686	1	SWITCH, Rocker, M-O-M 2; Secondary Auxiliary

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