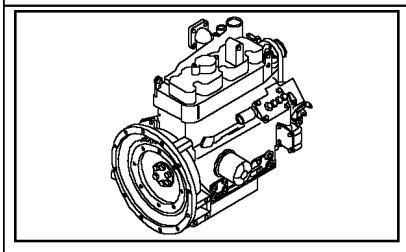
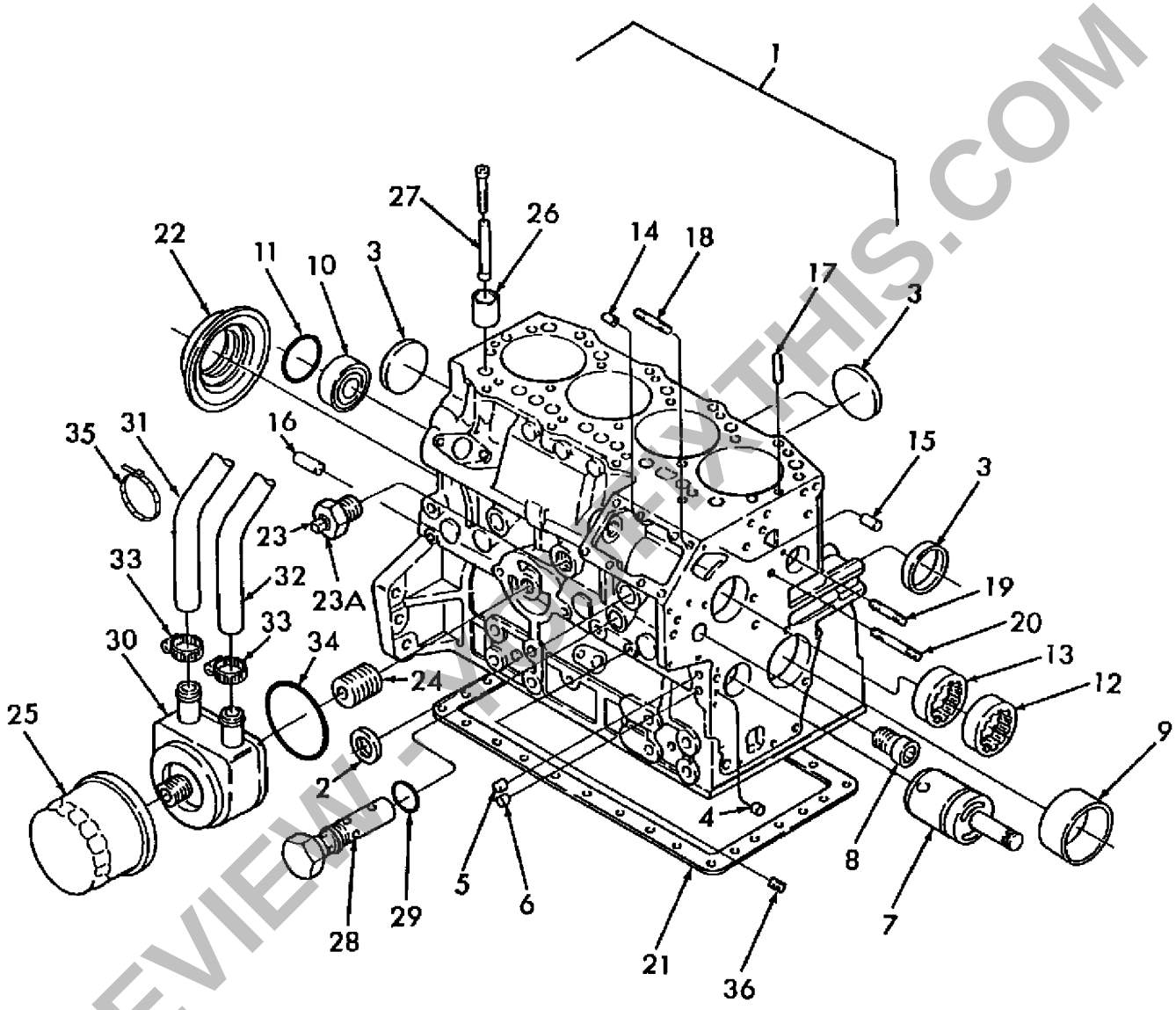
01.02.02 CYLINDER BLOCK, LS170





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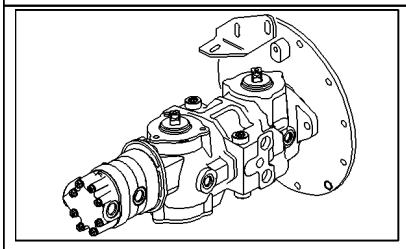

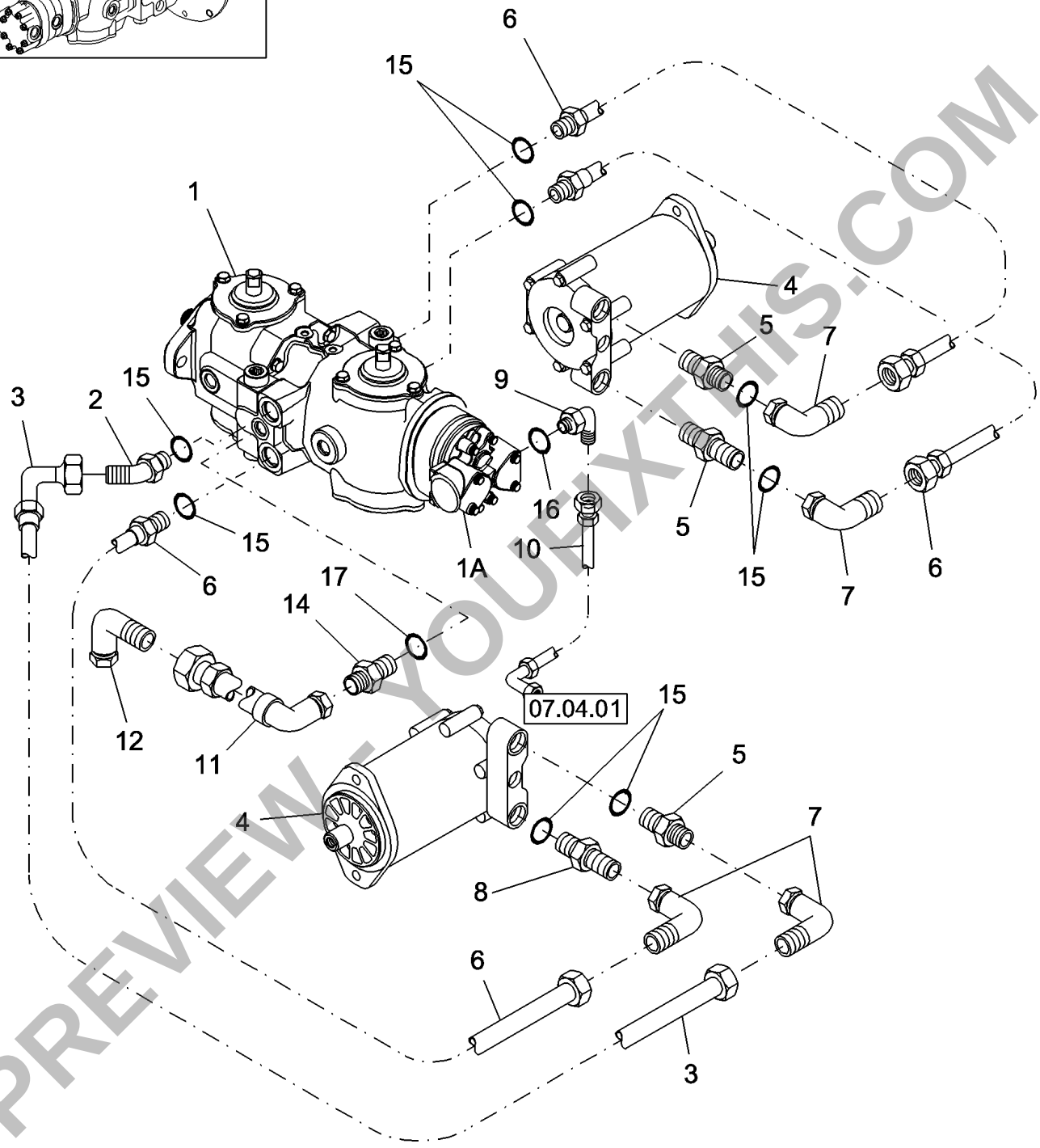

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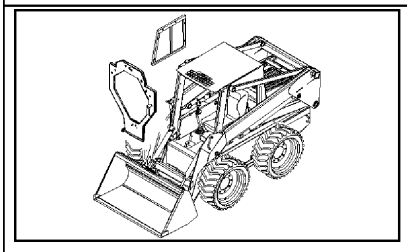

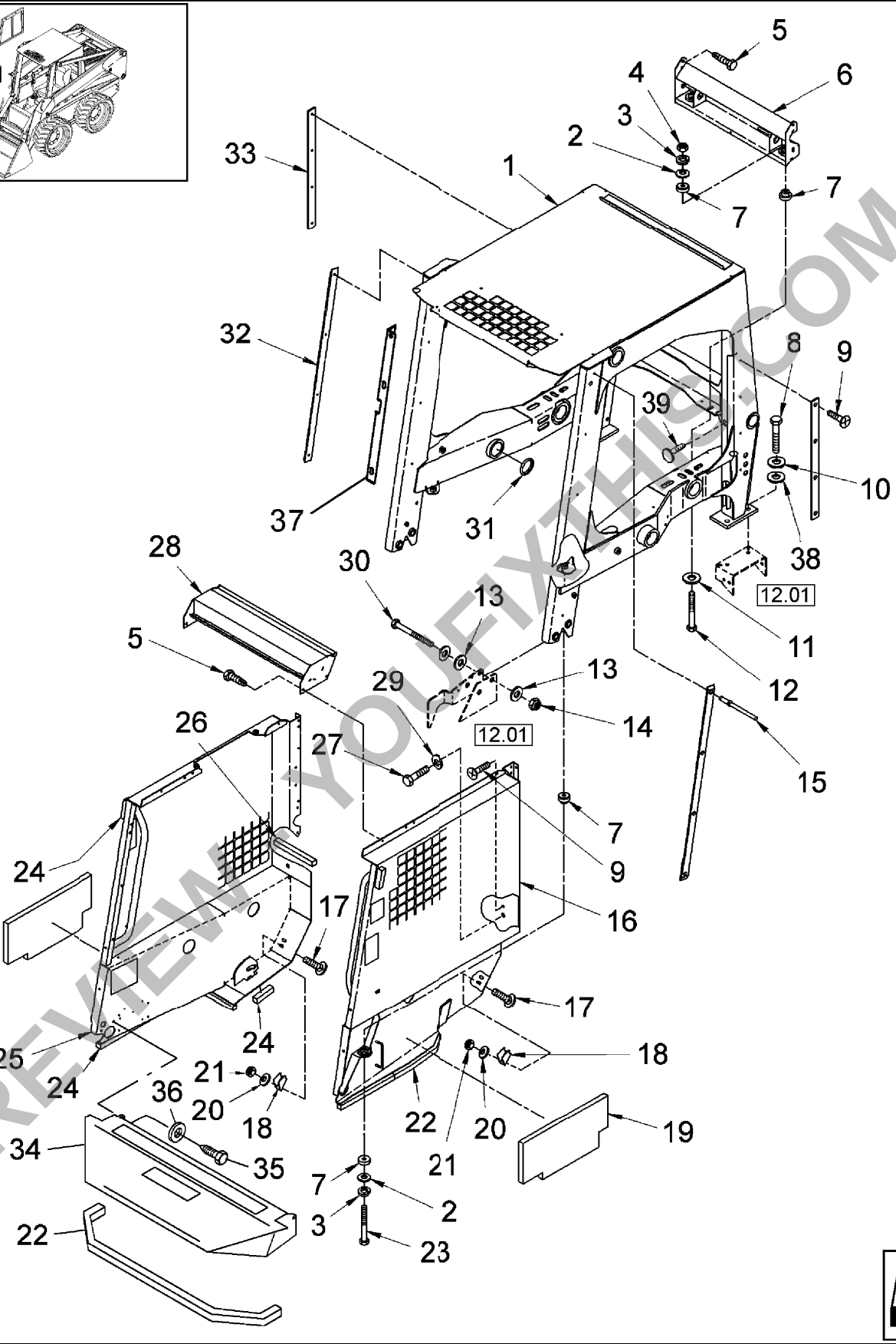

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LS170 SKID STEER LOADER (9/99-) - Engine

01.01.02 ENGINE, LS170

Ref	Part Number	Qty	Description
1	322357	2	WASHER, SPRING, Belleville, M6,
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	86557221	1	ENGINE, Before Engine S/N 108981
12	86627333	1	ENGINE, Tier 2; After Engine S/N 108982
12A	SBA133698	1	ENGINE, LS170, SL55; 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
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	140045	20	WASHER, SPRING, Belleville, M10,
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	80681	8	WASHER, LOCK, 5/16",
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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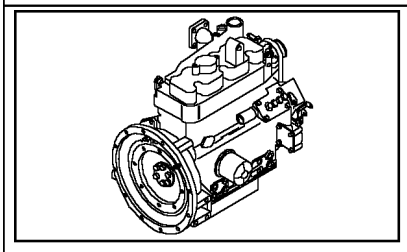
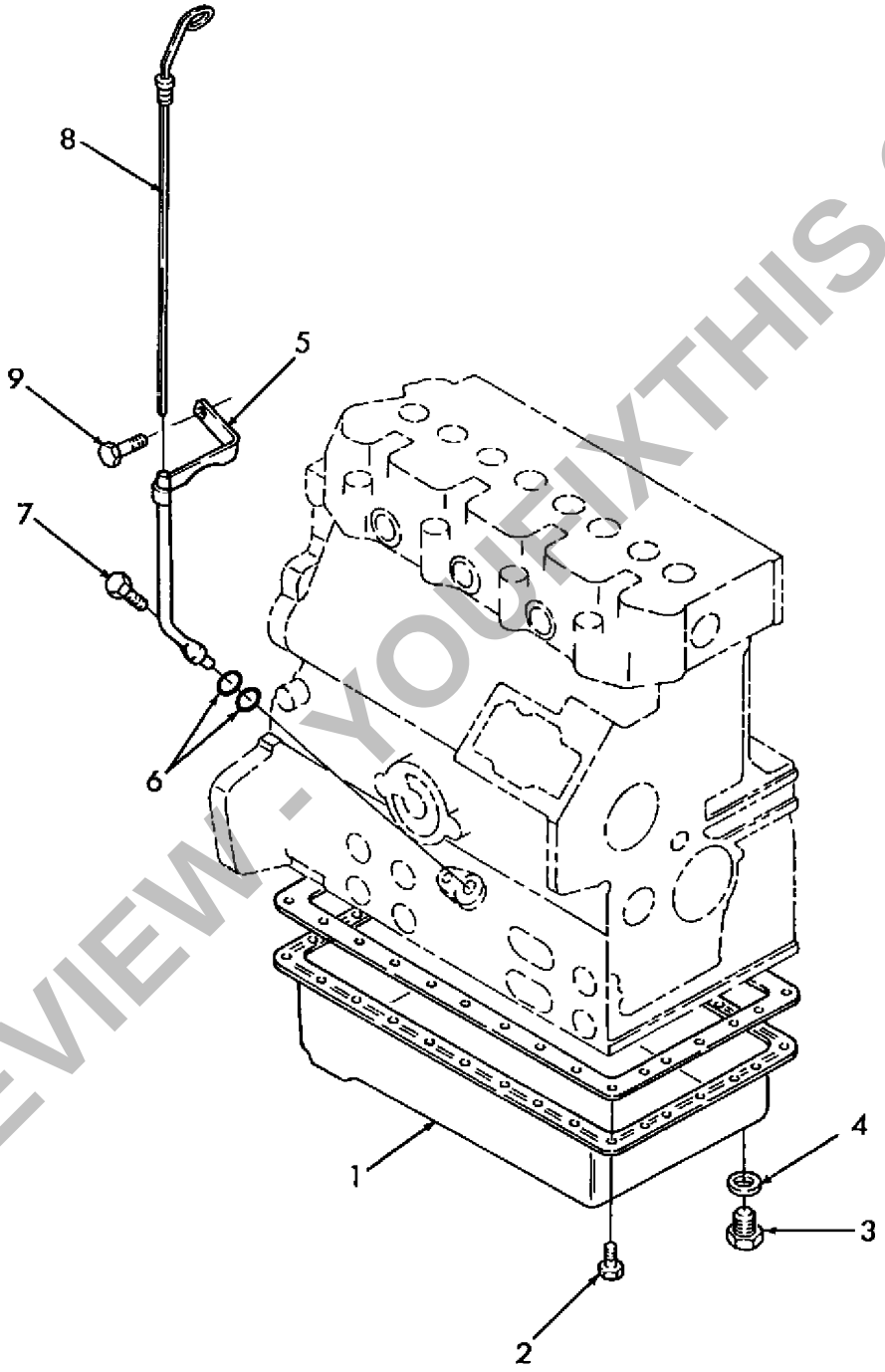
01.14 OIL PAN, GAUGE & RELATED PARTS





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LS170 SKID STEER LOADER (9/99-) - Engine

02.08 MUFFLERS, ASPIRATOR & CATALYTIC

Ref	Part Number	Qty	Description
1	86590100	1	KIT, Pre-cleaner Aspirator, Dusty Conditions, LS160, Incl. Ref. 2 thru 12
1	86590101	1	KIT, Pre-cleaner Aspirator, Dusty Conditions, LS170, Incl. Ref. 2 thru 12
2	86527336	1	MUFFLER, Aspirator, LS160
2	86504526	1	MUFFLER, Aspirator, LS170
3	9706921	3	CLAMP, HOSE, #10, 0.56/1.06 Type F Worm,
4	86506399	1	HOSE, Surge Tank Outlet, 1" x 24"
5	86504507	1	TUBE, 1" OD x 1-1/2" Long
6	86504506	1	HOSE, Air Cleaner Adapter
6	87032778	1	HOSE, Use with DONALDSON Air Cleaner
7	82012725	1	CLAMP, HOSE, #24
7	45014	1	CLAMP, HOSE, #40, 2.06/3.00 Type F Worm, Use with DONALDSON Air Cleaner
8	263117	1	STRAP, CABLE, .14" x 11 1/2", 3/32" x 11-1/2" L
9	9829757	1	EXTENSION,
10	322	2	WASHER,
11	322358	2	WASHER, SPRING, Belleville, M8,
12	87872	2	BOLT, Hex, 5/16"-18 x 3/4", G5, Full Thd,
13	86590086	1	KIT, Catalytic Muffler, Purifies Exhaust, LS160, Incl. Ref. 9 thru 12 & 14
13	86590087	1	KIT, Catalytic Muffler, Purifies Exhaust, LS170, Incl. Ref. 9 thru 12 & 14
14	9861707	1	MUFFLER, Catalytic, LS160
14	9861706	1	MUFFLER, Catalytic, LS170

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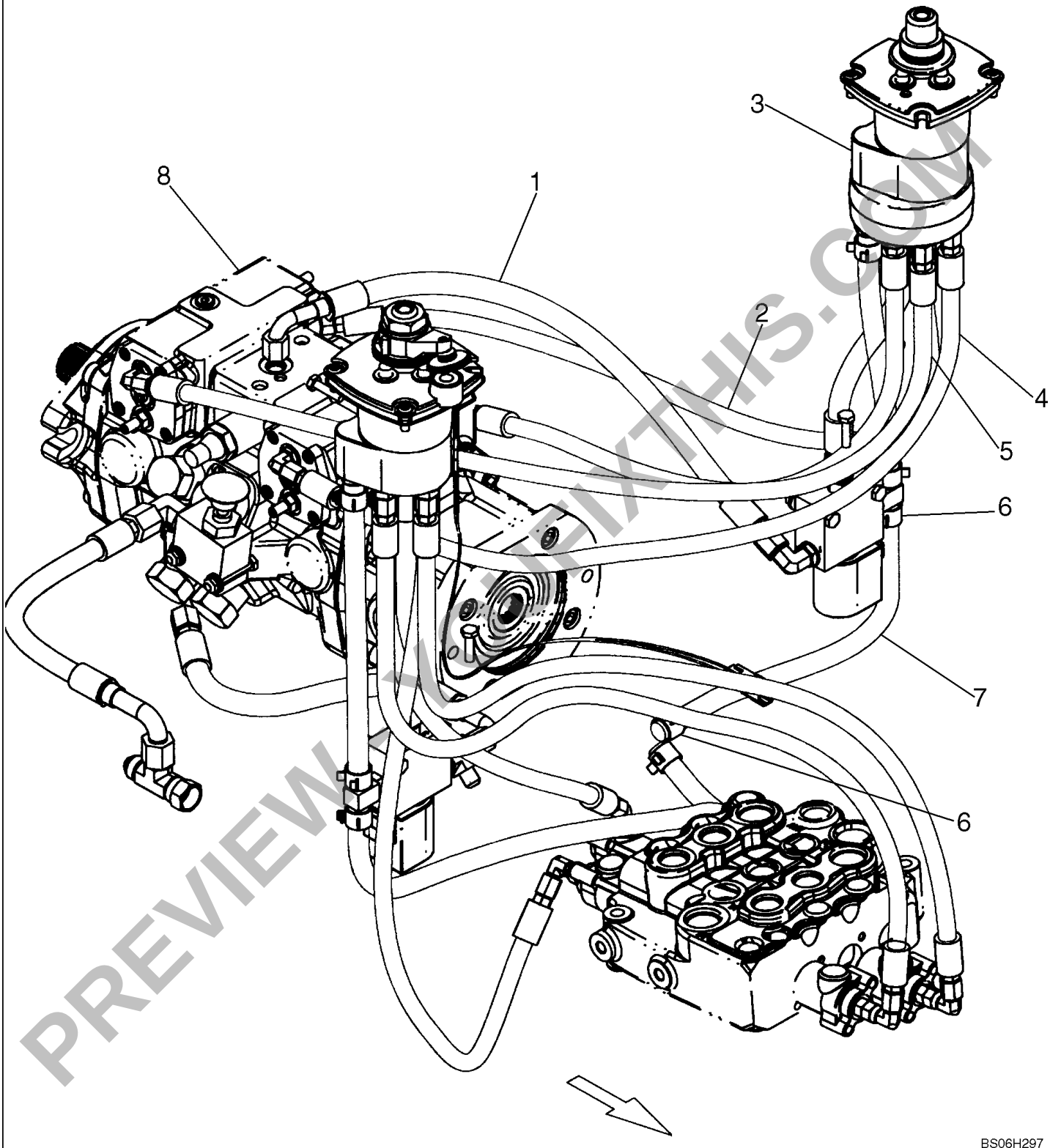

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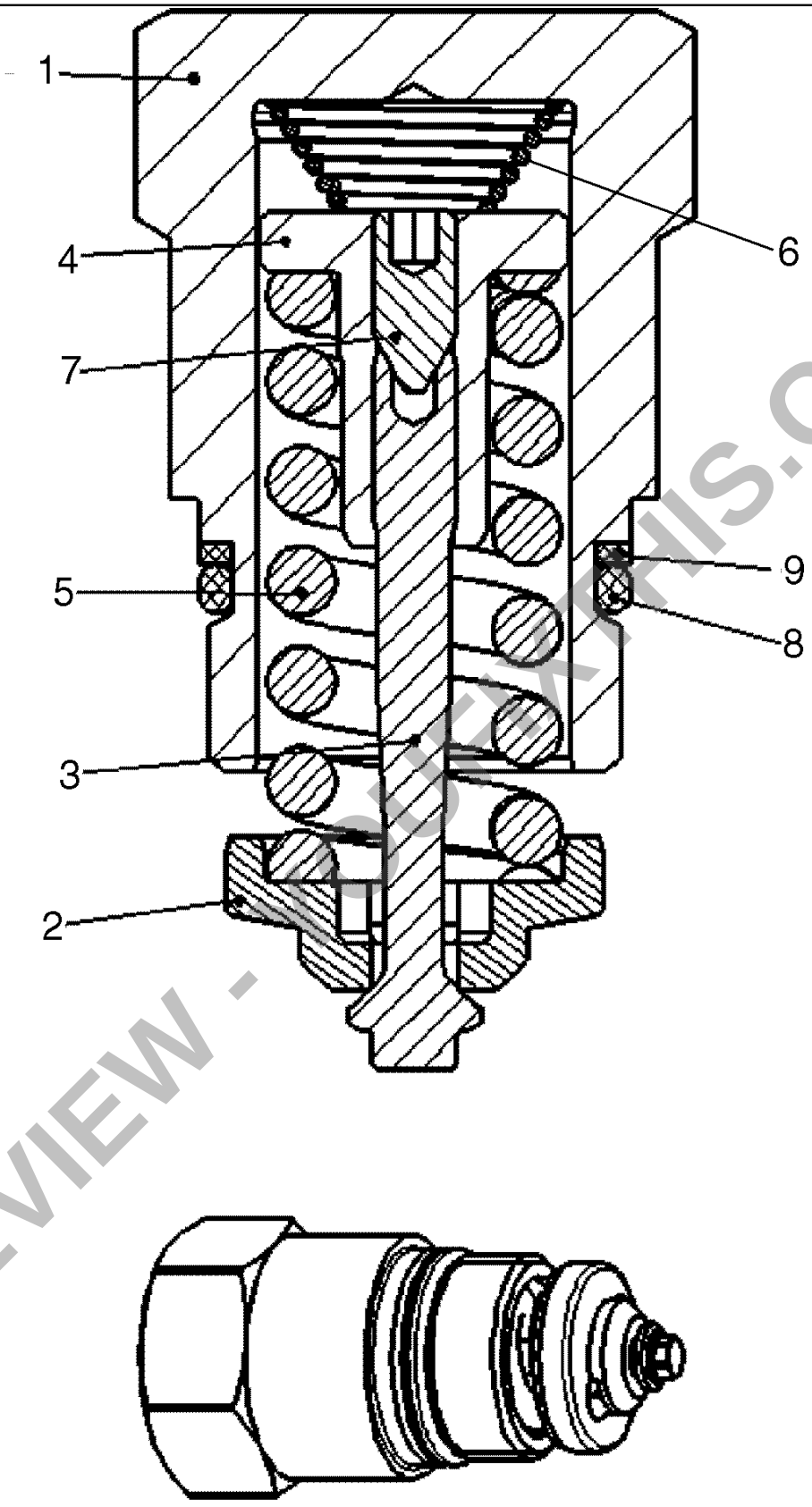

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LS170 SKID STEER LOADER (9/99-) - Engine

06.02.01 CAB ELECTRIC, NORTH AMERICA

Ref	Part Number	Qty	Description
1	9706732	8-9	CLAMP, 3/4" x 5/16" Bolt
2	858956	1	CLAMP, 7/16", Insul, 5/16" Bolt,
3	86542121	2	BEZEL, Rear
3	86597619	2	BEZEL, Rear, 4-Way Flashers
4	86533428	3	LAMP, Clear, Incl. Ref. 4A; Spring Clip Not Serviced Separate
4A	86533429	3	BULB, 12V, 36W, Halogen
5	9829515	2	LAMP, Red, Incl. Ref. 5A; Also Includes 137827A1 Lamp Socket
5A	C6AB13465A	2	BULB, #97
6	86542120	1	BAR, Rear Light
7	86542119	2	BEZEL, Front
7	86597618	2	BEZEL, Front, 4-Way Flashers
8	86542118	2	HOUSING, Light, Front
9	9827625	1	SWITCH, LIGHTS, Rocker
9	86604641	1	SWITCH, LIGHTS, Rocker, Lighted
10	86625316	1	INSTRUMENT CLUSTER, Instrument Cluster; Two Rectangular Connectors, 11 Pin And 14 Pin; See Figure 06.01.01 Ref 1 For Newer Style
11	87887	2	SCREW, SELF TAPPING, Hex Hd, 5/16" x 3/4",
12	9840344	12	SCREW, Self-Tapping, Special, WH, 5/16"-18 x 11/16", Sealing
13	263117	4	STRAP, CABLE, .14" x 11 1/2", 3/32" x 11-1/2" L
14	86545826	20	SCREW, SELF TAPPING, Hex Wash Hd, #10 x 1",
15	7770	2	NUT, 1/4"-20, G5,
16	322357	1	WASHER, SPRING, Belleville, M6,
17	237915	1	GROMMET,
18	280476	4	SCREW, SELF TAPPING, Hex Wash Hd, 3/8" x 1",
19	80680	2	WASHER, LOCK, 3/8",
20	80664	4	WASHER, 5/16",
21	258985	AR	CONDUIT, Plastic, Split, .58" OD x 28" Long; Cut to Required Length
22	9847775	AR	CONDUIT, Plastic, Split, .62" ID x 24" Long; Cut to Required Length
23	88434	2	BOLT, Hex, 3/8"-16 x 3/4", G5, Full Thd,
24	86500939	4	SCREW, SELF TAPPING, Hex Wash Hd, #10 x 3/8",
25	86539711	1	HARNESS, WIRE, 4-Way Flashers
25	86621721	1	HARNESS, WIRE, 4-Way Flashers; Incl. Diode 774735 And Fuse 9623776
25A	9623776	1	FUSE, Not Illustrated Separately
26	774735	1	DIODE, 6A, Style 30
27	86509590	1	RELAY, 20 Amp
28	9841566	4	LAMP, Amber, Incl. Ref. 28A
28A	529068	4	BULB, #1156, 12V,
29	86535636	1	BRACKET,
30	83982898	1	FLASHER UNIT,
31	83982664	1	RELAY, Turn Signal
32	82002966	1	SOCKET, POWER,
33	86627432	1	PLUG, PLASTIC, Turn Signal
33	9827626	1	INDICATOR,TURN SIGNAL,
33	86604657	1	INDICATOR,TURN SIGNAL,

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LS170 SKID STEER LOADER (9/99-) - Engine

06.03.05 BEACON KIT & MISCELLANEOUS PARTS, ON-ROAD

Ref	Part Number	Qty	Description
1	86565641	1	GUARD, Bucket, LH, Incl. Ref. 3
2	86565640	1	GUARD, Bucket, RH, Incl. Ref. 3
3	86606340	1	DECAL, Red/White Stripe
4	180033	2	SPRING,
5	180007	AR	HOOK,
6	81871843	1	MIRROR, LH,
7	86590119	1	KIT, Beacon, Incl. Ref. 8 - 18
8	2010665	1	BEACON, Incl. Ref 18, Lens 2010668
	2010668	1	LENS, For Beacon 2010665
9	86541612	1	HARNESS, WIRE,
10	86592991	1	BRACKET, Gray
11	86592993	1	BRACKET, Gray
11	86535636	1	BRACKET, Replaces 86592993
12	82002966	1	SOCKET, POWER,
13	713030	1	SWITCH, FLASHER, Rocker
14	523310	1	NUT, Flg, USR, #10-24
15	523292	1	BOLT, Hex Flg, 1/4"-20 x 3/4", Serr,
16	523282	1	NUT, Flg, USR, 1/4"-20,
17	280342	1	SCREW, Slottted Hex Hd, #10-24 x 3/4",
18	69AG13009AA	1	BULB, 12 Volt, 55 Watt
19	86568101	1	GUARD, LH, Incl. Safety Traction Tape
20	86568102	1	GUARD, RH, Incl. Safety Traction Tape
20	9840158	AR	KIT, Safety Traction Tape, (3) pcs 3" x 44"
21	86530079	2	GUARD, Included in Italian Loose Parts, Not Shown
22	86529536	1	CABLE, Included in Italian Loose Parts, Not Shown
23	631816	2	SCREW, Wingscrew, 3/8"-16 x 1", Included in Italian Loose Parts, Not Shown
24	517372	1	PIN, CLEVIS, 3/8" x 1-7/8", Included in Italian Loose Parts, Not Shown
25	280616	2	BOLT, CARRIAGE, Short NK, 5/16"-18 x 1/2", G5, Full Thd, Included in Italian Loose Parts, Not Shown
26	216698	1	PIN, SPLIT (COTTER), 1/8" x 1-3/4", Included in Italian Loose Parts, Not Shown
27	145458	2	NUT, Flg, USR, 5/16"-18, Included in Italian Loose Parts, Not Shown

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LS170 SKID STEER LOADER (9/99-) - Engine

06.04.01(04) BACK-UP ALARM KIT

Ref	Part Number	Qty	Description
1	86587216	1	KIT, Back-up Alarm, Incl. Ref 2-17 & 19-22
1	87052463	1	KIT, Back-up Alarm, Replaces 86587216
2	80681	2	WASHER, LOCK, 5/16",
2	322358	2	WASHER, SPRING, Belleville, M8, Part of Back-up Alarm Kit
3	145458	2	NUT, Flg, USR, 5/16"-18,
4	9807283	1	ALARM, Warning
5	263117	9	STRAP, CABLE, .14" x 11 1/2", 3/32" x 11-1/2" L
6	9827602	1	HARNESS, WIRE, Back-up Alarm
7	88011	2	BOLT, Hex, 3/8"-16 x 1 1/4", G5, Full Thd, , BSN ECN117885
7	88206	2	BOLT, Hex, 3/8"-16 x 1", G5, Full Thd, Part Of Back-up Alarm Kit
8	140045	3	WASHER, SPRING, Belleville, M10,
9	87716	9	BOLT, Hex, 1/4"-20 x 1 1/4", G5, , BSN ECN117885
10	86579144	1	BRACKET, , BSN ECN117885
11	80707	9	WASHER, 3/16",
12	523282	9	NUT, Flg, USR, 1/4"-20,
12	523282	4	NUT, Flg, USR, 1/4"-20, , ASN ECN117885
13	86837236	2	SPACER, , BSN ECN117885
14	86579143	1	BRACKET,
14	86729243	1	BRACKET, , ASN ECN117885
15	86542673	2	SWITCH,
16	86504524	2	PLATE, STRIKER, , BSN ECN117885
17	9628503	1	NUT, 3/8"-16, G5, Use existing hardware
18	280161	1	BOLT, Hex, 3/8"-16 x 3", G5, Use existing hardware
19	9707580	4	BOLT, Hex, 1/4"-20 x 3/4", G5, Full Thd,
20	258985	1	CONDUIT, Plastic, Split, .58" OD x 28" Long
21	87872	2	BOLT, Hex, 5/16"-18 x 3/4", G5, Full Thd,
22	88434	2	BOLT, Hex, 3/8"-16 x 3/4", G5, Full Thd, Part Of Back-up Alarm Kit, ASN ECN117885

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

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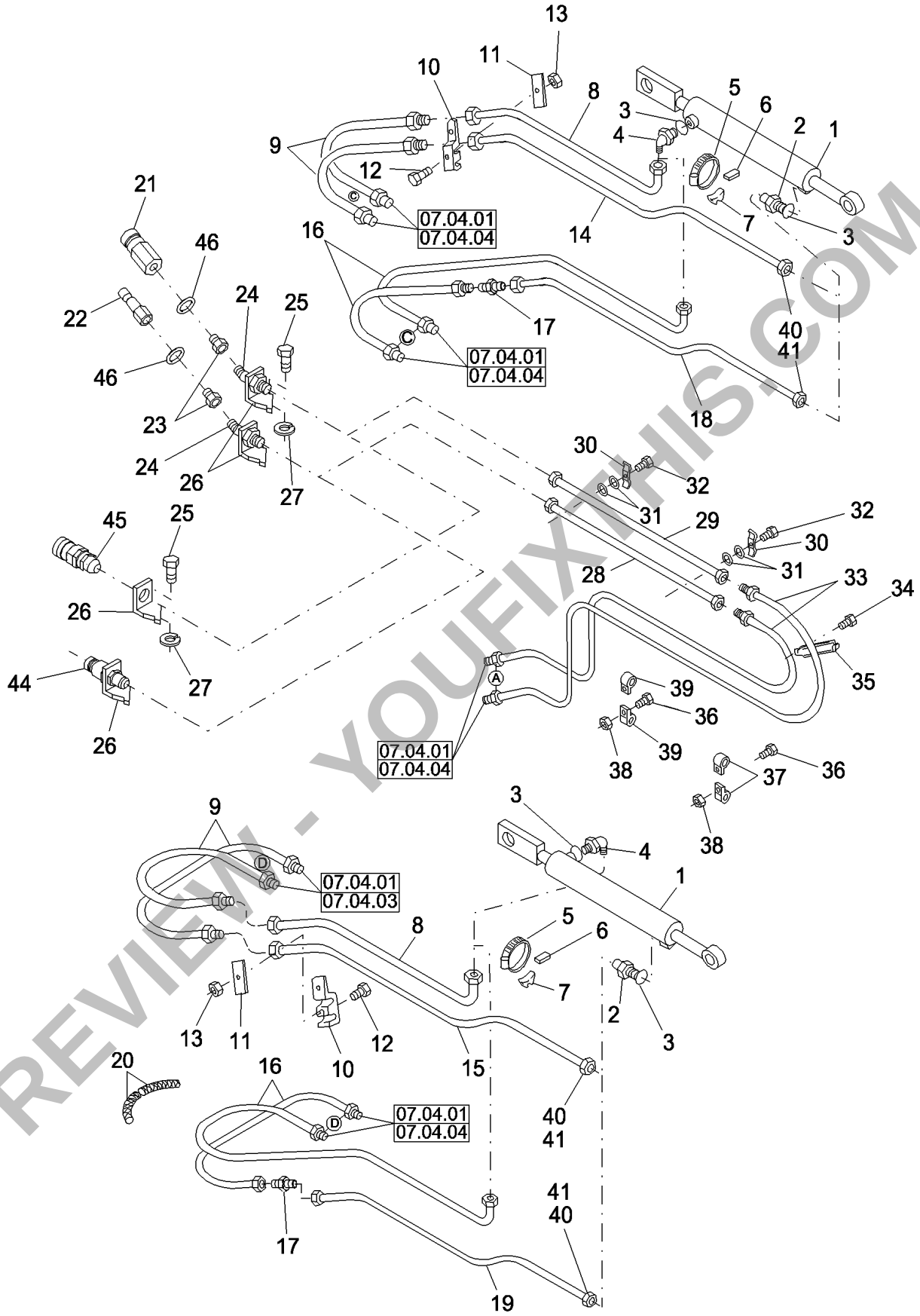

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LS170 SKID STEER LOADER (9/99-) - Engine

07.04(02) HAND CONTROL - PILOT CONTROL, UPPER RH

Ref	Part Number	Qty	Description
1	87357144	1	SHROUD, Pilot Control, RH
2	87357127	1	PANEL, CONTROL, Kick Panel, RH
3	140045	7	WASHER, SPRING, Belleville, M10,
4	88206	7	BOLT, Hex, 3/8"-16 x 1", G5, Full Thd,
5	291308	X	STRIP, SEALING, 2.6 Ft. Required
6	88146	3	BOLT, Hex, 1/4"-20 x 1", G5,
7	87361	3	WASHER, 1/4", SAE,
8	87557478	1-3	FASTENER, Screw; Only (1) Used When Boot Retainer Plate Is Used
9	87318948	3	FASTENER, Washer, .281 x .625 x .075 HDN ZND
10	87357132	1	PANEL, CONTROL, Control Tower RH
11	87610699	2	FASTENER, Spacer; 1/4 Pipe x 6.4 mm
12	87716	2	BOLT, Hex, 1/4"-20 x 1 1/4", G5,
13	87557965	1	PLATE, Boot Retainer
	87609685	1	KIT, SERVICE, Boot Retainer Kit; Incl. 11 - 13 And Instructions

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LS170 SKID STEER LOADER (9/99-) - Engine

07.04.03(04) CONTROL VALVE, SPOOL END GROUP P. O.

Ref	Part Number	Qty	Description
	87576166	1	SPOOL, Spool End Group; Incl. 1 - 5
1	NSS	1	NOT SERVICED SEPARATELY, Spring Seat
2	NSS	1	NOT SERVICED SEPARATELY, Spring
3	NSS	1	NOT SERVICED SEPARATELY, Cap - Spool, P. O.
4	NSS	2	NOT SERVICED SEPARATELY, Socket Head Cap Screw
5	NSS	1	NOT SERVICED SEPARATELY, O-Ring

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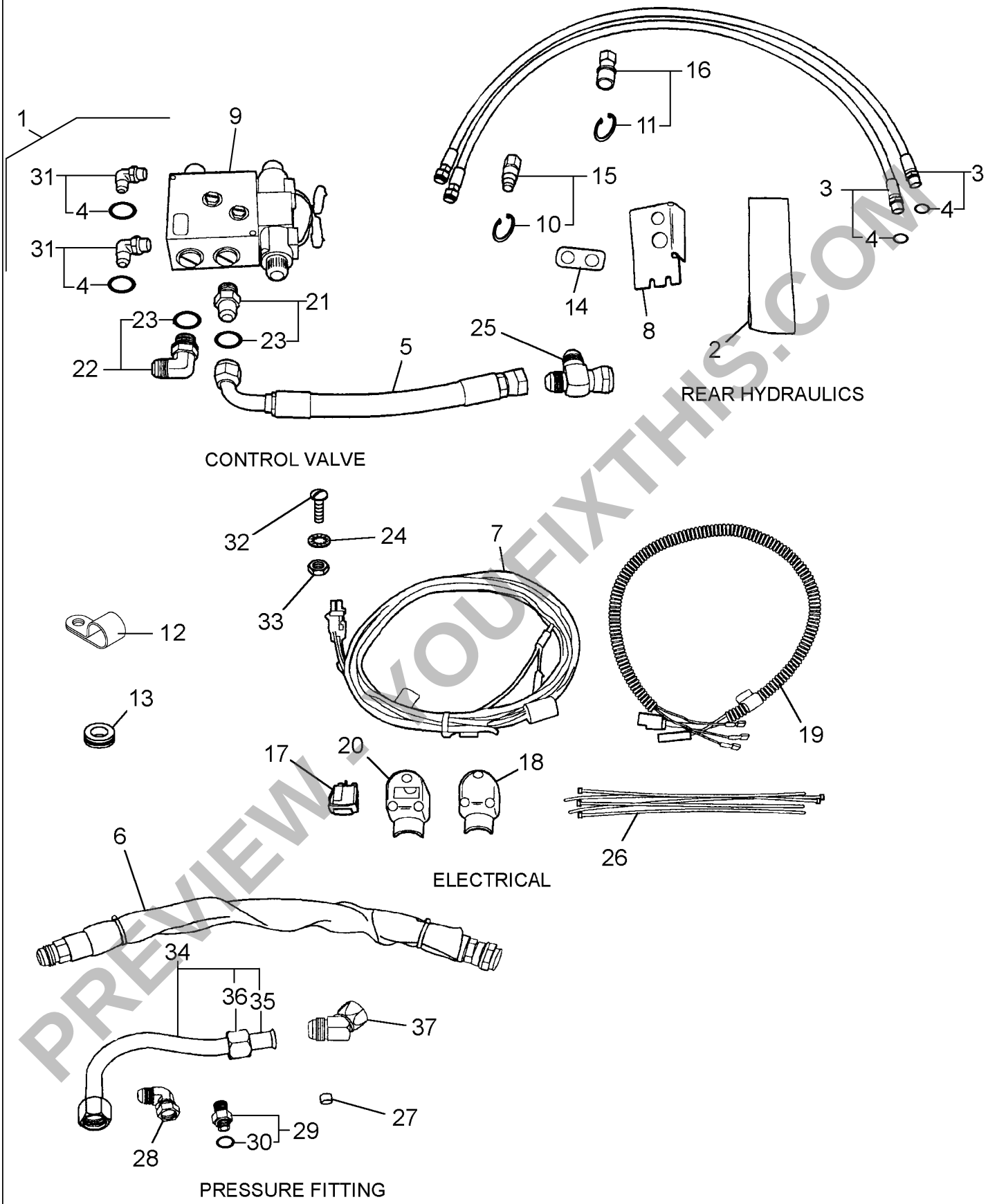
07.08.02 REAR AUXILIARY HYDRAULICS; IF USED



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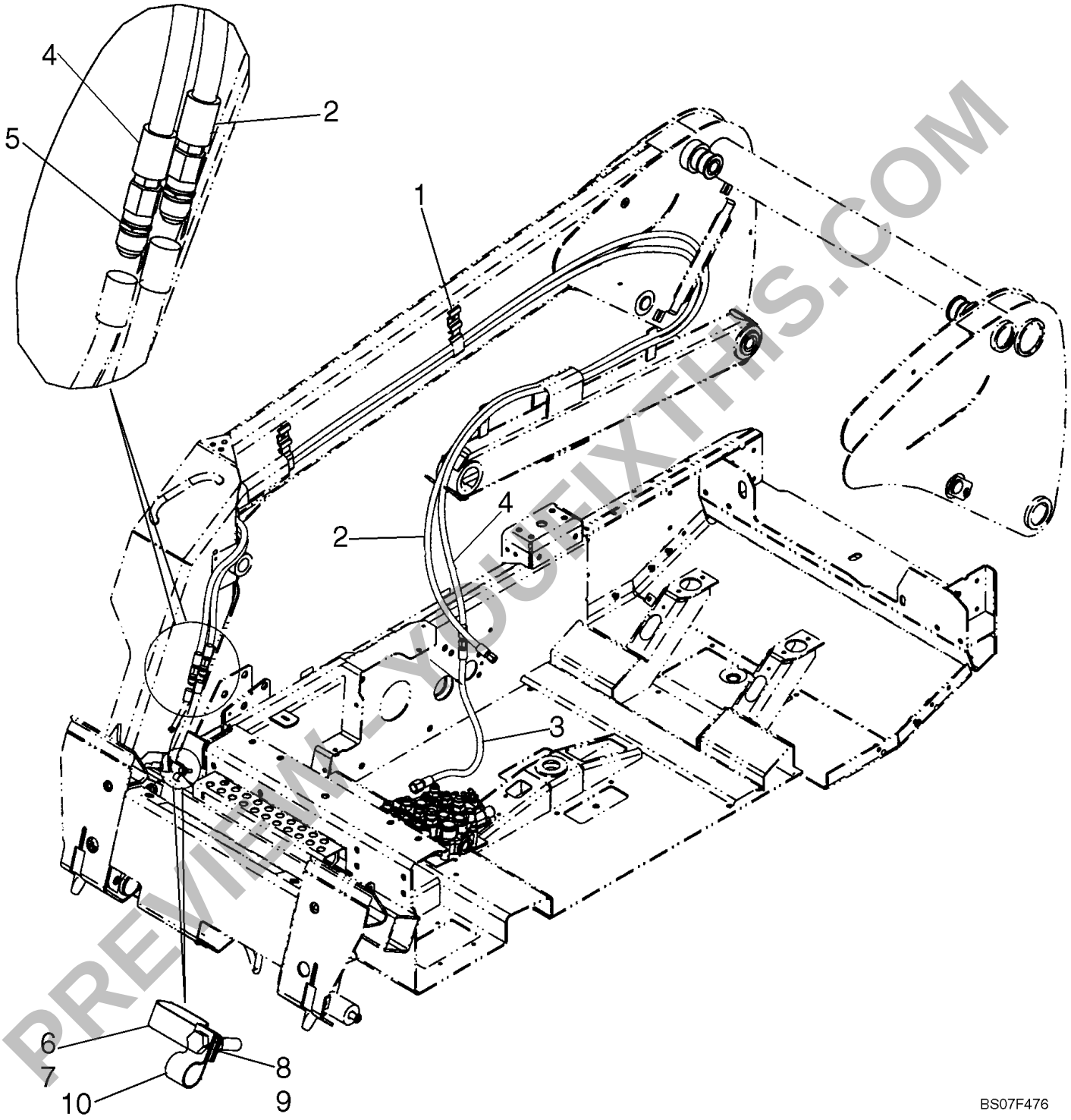

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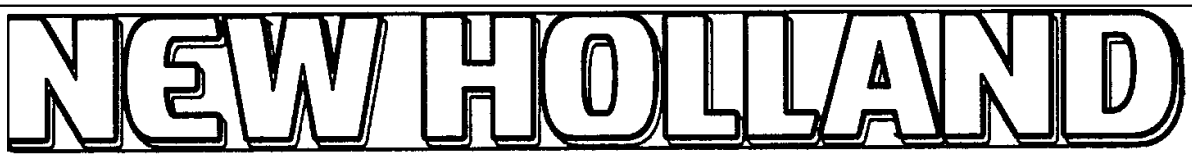

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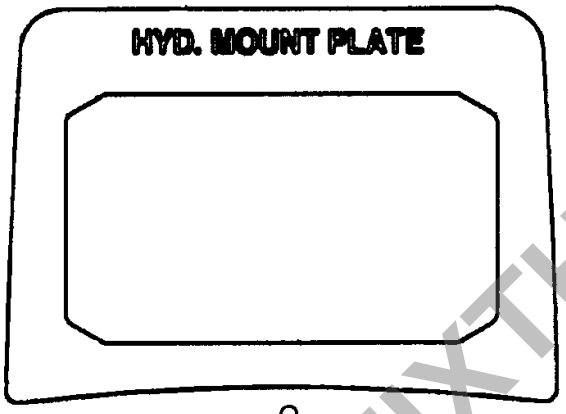

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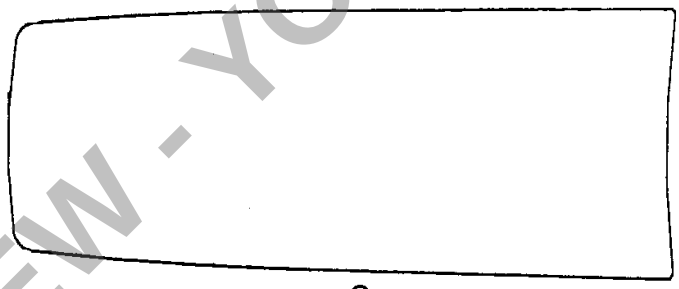

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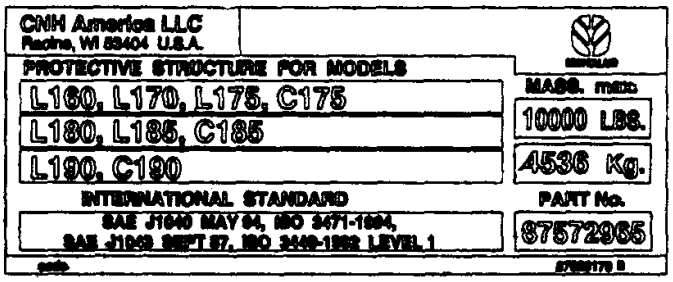

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LS170 SKID STEER LOADER (9/99-) - Engine

08.06.05 ACOUSTICAL EQUIPMENT - PILOT CONTROL CONSOLE

Ref	Part Number	Qty	Description
1	87584327	2	FOAM, Sound Pad; No Longer Available, See Fig 09-51A
2	87584333	2	FOAM, Barrier, Pilot Console; No Longer Available, See Fig. 09-51A
3	L18331	2	STRAP, CABLE,
4	87462527	2	PAD, Sound Pad; No Longer Available, See Fig. 09-51A

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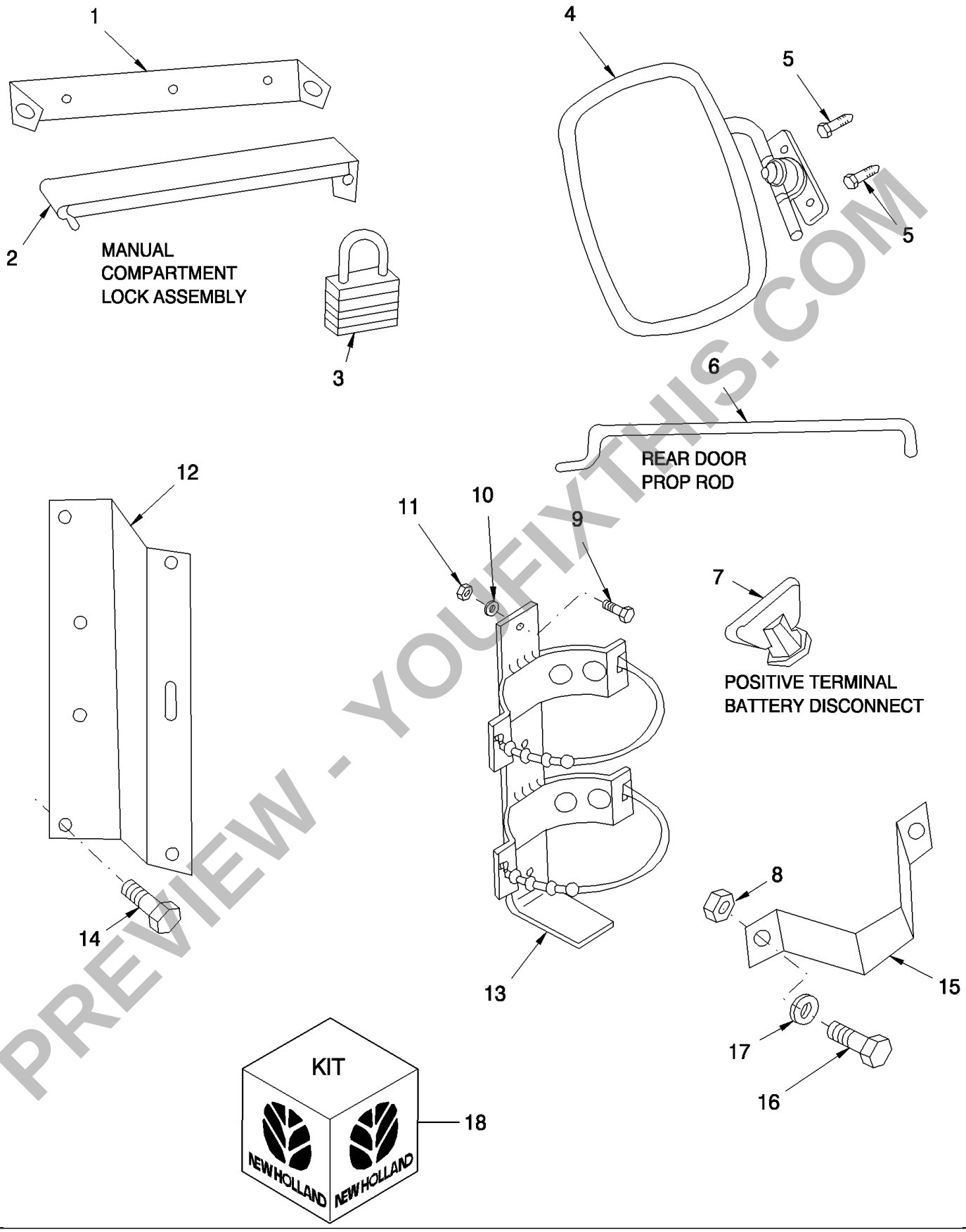
10.01.07 MANUAL COMPARTMENT LOCK & FIRE EXTINGUISHER, EUROPE



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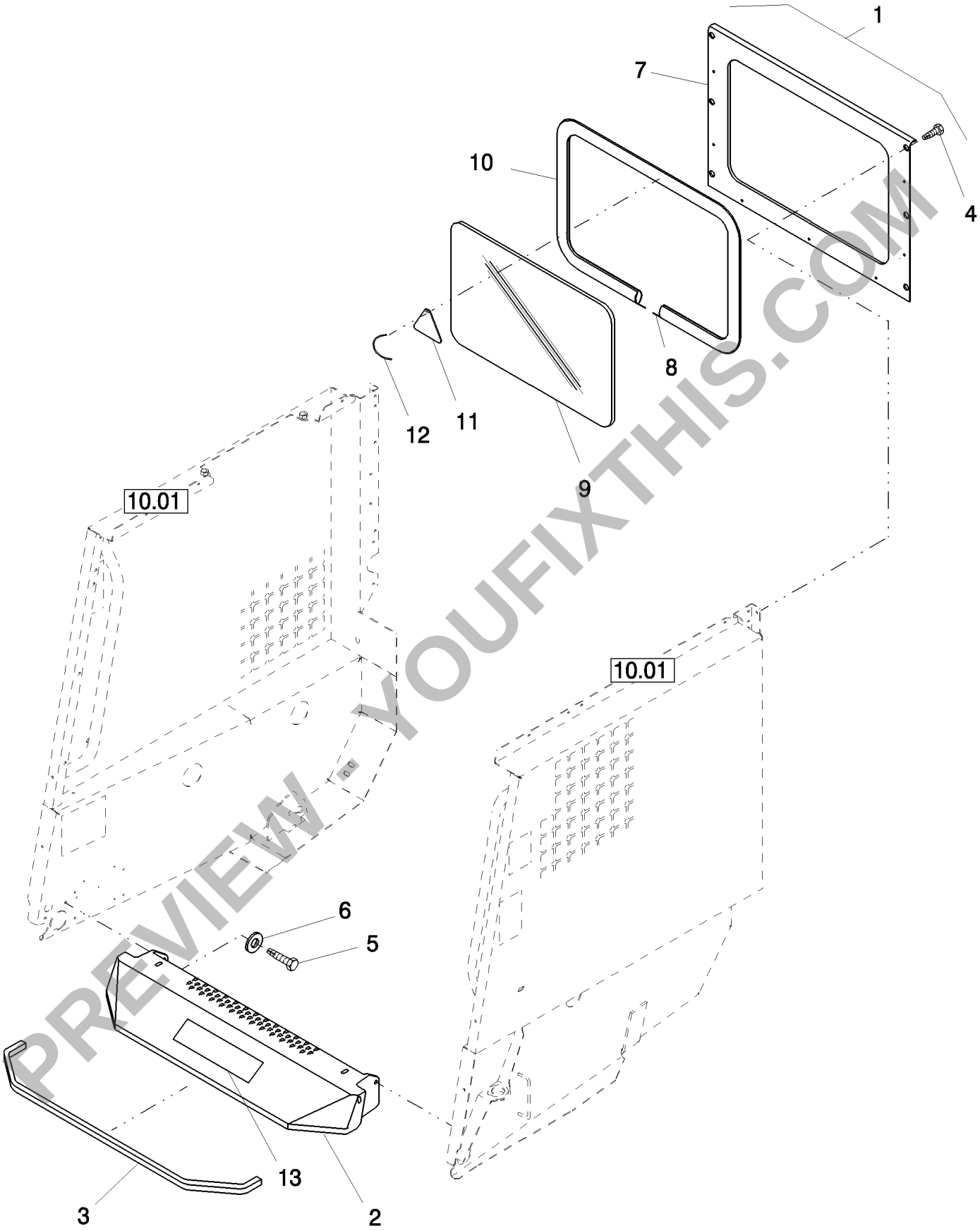
10.04 CAB - THRESHOLD & REAR WINDOW, NORTH AMERICA



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LS170 SKID STEER LOADER (9/99-) - Engine

10.06.09 CAB - DEMOLITION DOOR, DELUXE CAB

Ref	Part Number	Qty	Description
1	86512463	3	SCREW, Hex Flat Hd, M6 x 25, 4.8,
2	87544288	1	LATCH,
3	86977726	2	BOLT, Hex, M6 x 12, 8.8,
4	87639937	1	Demolition Door; Incl. 5 - 8
5	87600221	8	SPACER,
6	87639938	1	PLASTIC, Window
7	NSS	1	NOT SERVICED SEPARATELY, Door
8	87660180	1	ADHESIVE, Window Adhesive
9	43362	1	NUT, M8, Cl 10,
10	86625263	2	WASHER, M8 x 20 x 1.6,
11	87581669	1	STUD, Ball Stud
12	87581681	1	HANDLE, Incl. 13
13	642628	1	SET OF 2 KEYS,
14	H435814	1	U-BOLT,
15	87051110	1	SWITCH, DOOR, Door Open Switch
16	87635968	1	GROMMET,
17	87622767	2	NUT, Nut, #6-32
18	87629614	1	WIPER BLADE,
19	87659082	1	WIPER ARM,
20	412326	1	NUT,
21	87607505	1	NUT,
22	87607506	1	SPACER,
23	87602688	1	WASHER,
24	87601294	2	PLUG, PLASTIC, Plug
25	87017606	2	SCREW, SELF TAPPING, Hex Flg Hd, M6 x 20,
26	87335499	1	SWITCH, Windshield Wiper/Washer Switch
27	87588635	2	SPACER, Door Motor Spacer
28	86588504	1	WASHER, Washer, 21 X 32 X 4 mm
29	87635942	1	MOTOR, Wiper Motor
30	87581666	1	COVER, Wiper Motor Cover
31	87659265	1	SEAL, RUBBER,

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LS170 SKID STEER LOADER (9/99-) - Engine

10.11.02 SEAT, SUSPENSION

Ref	Part Number	Qty	Description
36	88871	2	NUT, LOCK, 1/2"-13, GC,
37	86603490	1	SWITCH,
38	263117	2	STRAP, CABLE, .14" x 11 1/2", 3/32" x 11-1/2" L
39	9790712	2	WASHER, Hardened, 3/8"
40	86504874	1	BOX, Manual Compartment
41	86506829	1	STRIP,
42	280638	3	BOLT, CARRIAGE, Short NK, 1/4"-20 x 3/4", G5, Full Thd,
43	523282	3	NUT, Flg, USR, 1/4"-20,
44	86506266	2	GAS STRUT,
44	87050853	1	SPRING, Replaces 86506266; Incl. Ref 44A; Does not use 9803210 Clip.
44A	87051003	2	CONNECTOR, HYD.,
45	86546788	4	SPACER,
46	86594696	2	BRACKET, Gas Spring, Lower
47	86599149	2	BRACKET, Gas Spring, Upper
48	617215	AR	MOLDING, 72" Lg., Cut to required length
49	9803210	4	CLIP, Retaining, Gas Spring
50	87362	2	WASHER, 5/16" SAE,
51	86628884	AR	KIT, Suspension Seat
52	87364	2	WASHER, 1/2", SAE,

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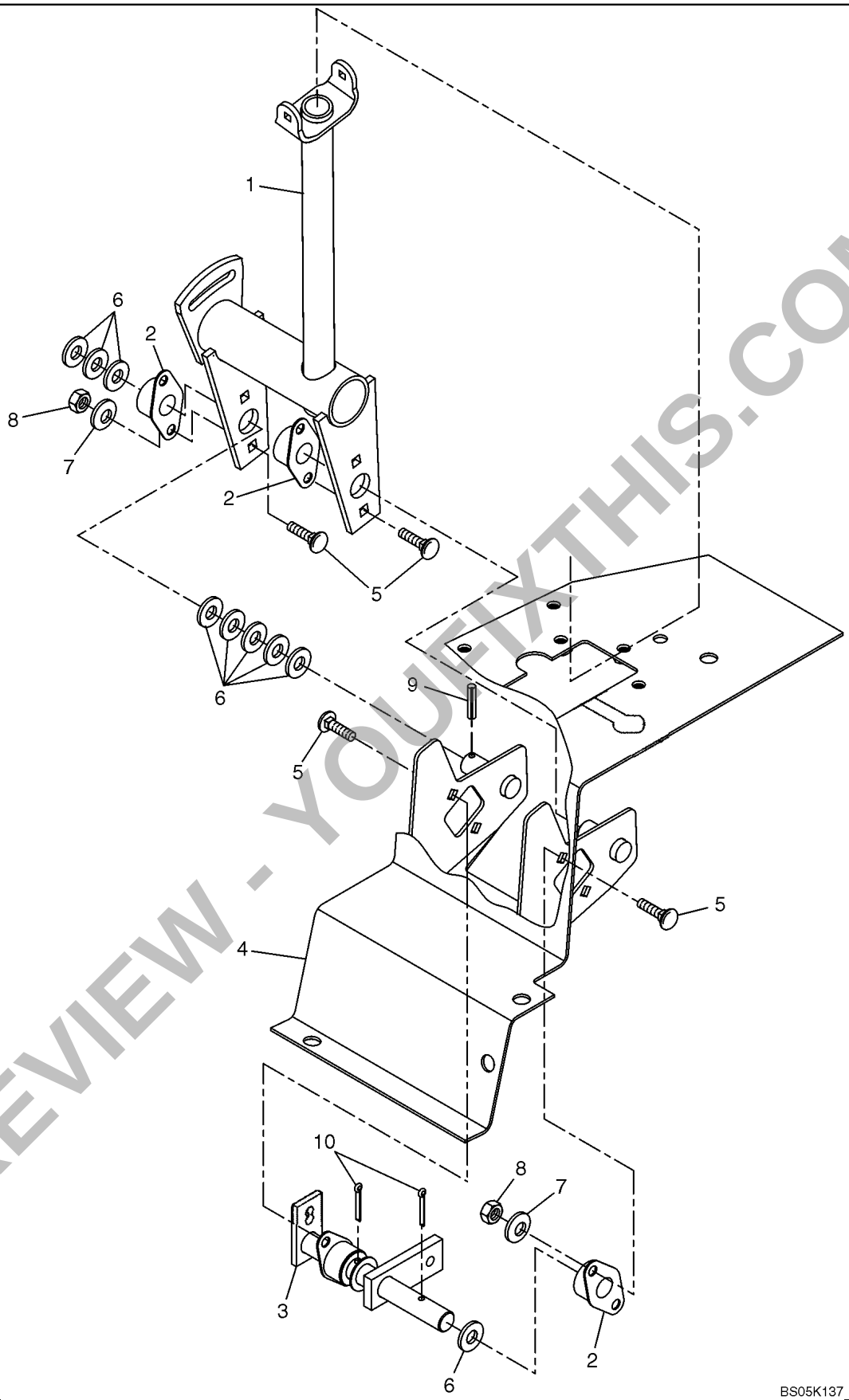
10.16.02 BOOM & BUCKET HAND CONTROL, KICK PANEL, LH



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LS170 SKID STEER LOADER (9/99-) - Engine

11.01 WHEELS & TIRES

Ref	Part Number	Qty	Description
17	86598703DS	4	WHEEL, Long Half
17	86577681DS	4	TYRE/TIRE, 10 x 16.5, 8-ply, Heavy Duty
17	86598618DS	4	LINER, Rubber Tire
18	86109068DS	2	WHEEL ASSY, Tire, LH, 31 x 15.5, Incl. the remaining Ref. 18
18	86109067DS	2	WHEEL ASSY, Tire, RH, 31 x 15.5, Incl. the remaining Ref. 18
18	86598738DS	4	TYRE/TIRE, 31 x 15.5-15, Hauler 10-ply, R4 Tread
18	86590993DS	4	WHEEL, 13 x 15, 8-lug
19	86109080DS	2	WHEEL ASSY, Tire, LH, 30.5 x 12.5 - 16.5, Incl. the remaining Ref. 19
19	86109079DS	2	WHEEL ASSY, Tire, RH, 30.5 x 12.5 - 16.5, Incl. the remaining Ref. 19
19	86598617DS	4	WHEEL, 16.5 x 9.75, 8-lug
19	86598866DS	4	TYRE/TIRE, 30.5 x 12.5 - 16.5, 6-ply, R4 Tread
20	86109053DS	2	WHEEL ASSY, Tire, LH, 10 x 16.5, Incl. the remaining Ref. 20
20	86109054DS	2	WHEEL ASSY, Tire, RH, 10 x 16.5, Incl. the remaining Ref. 20
20	86590969DS	4	WHEEL, 16.5 x 8.25, 8-lug
20	86577681DS	4	TYRE/TIRE, 10 x 16.5, 8PR, Hauler
21	86529314DS	2	WHEEL ASSY, Tire, RH, 10 x 16.5, Incl. the remaining Ref. 21
21	86529313DS	2	WHEEL ASSY, Tire, LH, 10 x 16.5, Incl. the remaining Ref. 21
21	86590969DS	4	WHEEL, 16.5 x 8.25, 8-lug
21	86508001DS	4	TYRE/TIRE, 10 x 16.5, HD2000
22	86109155DS	2	WHEEL ASSY, Tire, LH; Incl. Bright Yellow 8-bolt-hole Wheel & 10 x 16.5 Hauler Tire filled with Superflex Soft Polyurethane Foam
22	86109154DS	2	WHEEL ASSY, Tire, RH; Incl. Bright Yellow 8-bolt-hole Wheel & 10 x 16.5 Hauler Tire filled with Superflex Soft Polyurethane Foam

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