

Ditch Witch®


8020

ISSUE NO. 13PL-08/15

For Replacement Copy Order **P/N 053-411**

This manual contains information concerning the following models:
8020 Trencher

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ENGINE MOUNT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	315-212	1	MOUNT (LEFT REAR)	
2.	315-213	1	MOUNT (RIGHT REAR)	
3.	116-673	2	SHOCK MOUNT	
4.	116-424	2	SHOCK MOUNT	
5.	105-993	2	FLG BOLT (5/8-NC X 4")	
6.	105-416	2	WASHER (5/8")	
7.	105-994	4	FLG LOCKNUT (5/8-NC)	
8.	105-830	8	FLG LK BOLT (1/2-NC X 1-1/4")	
9.	105-826	8	FLG LK BOLT (3/8-NC X 1")	
10.	105-834	8	FLG LOCKNUT (3/8-NC)	
11.	105-462	2	BOLT (5/8-NC X 2-1/4")	
12.	105-400	2	FLG BOLT (5/8-NC X 1-1/4")	
13.	105-385	2	LOCK WASHER (5/8")	
14.	105-076	2	BOLT (1/2-NC X 3")	
15.	105-475	2	WASHER (1/2")	
16.	105-065	2	LOCKNUT (1/2-NC)	
17.	315-201	1	ENGINE MOUNT ASS'Y	
18.	315-049	1	MOUNT PLATE	

FOOTNOTES

ALTERNATOR

ENDS WITH S/N 5T0256

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	217-451	1	ELEMENT (ALTERNATOR)	
2.	106-383	2	FLG LK BOLT (M10-1.50 X 30mm)	
3.	105-151	2	LOCKNUT (7/16-NC)	
4.	106-396	4	WASHER (M10, H&T)	
5.	315-257	1	ALTERNATOR BRACKET	
6.	106-329	2	SCREW (M8-1.25 X 50mm)	
7.	315-262	1	BRACKET SUPPORT	
8.	105-894	1	LOCKNUT (M10-1.50, PRVLG TORQ)	
9.	105-132	2	BOLT (7/16-NC X 1-1/2")	
10.	106-390	2	WASHER (M10)	
11.	106-564	1	SCREW (M10-1.50 X 100MM)	
12.	105-272	1	SCREW (M8-1.25 X 30mm)	
13.	106-389	2	WASHER (M8)	

FOOTNOTES

FUEL LINE (JD POWERTECH)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	110-528	4	SNAP-ON CLAMP (.531" TO .593")	
2.	116-108	1	BULK HOSE (5/16", SOLD PER 1")	USE 52"
3.	194-816	1	FUEL FILTER ELEMENT	
	194-493	1	PRIMARY FILTER SEDIMENT BOWL	
4.	156-276	1	FERRULE (05T)	
5.	156-277	1	COMPRESSION NUT (05T)	
6.	156-275	1	TUBE CONNECTOR (04H-5T)	
7.	155-241	1	S/O COUPLER (02N-05H90)	
8.	114-033	1	P-SEAL ADAPT (M10-1.0 X 1/8-NPT)	
9.	194-819	-	ENGINE (DEERE DIESEL)	
10.	110-030	4	CABLE TIE (1/16" TO 4")	
11.	115-776	2	ABRASION SLEEVE (1.59" X 7")	
12.	116-108	1	BULK HOSE (5/16", SOLD PER 1")	USE 58"

FOOTNOTES

POWER TRAIN

MANUAL SHIFT TRANSMISSION

7020/8020 PLANETARY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	166-124		GROUND DRIVE TRANS. ASSY 8020	INCL REF NO.'S 1-49, 52
	166-147		GROUND DRIVE TRANS. ASSY 7020	INCL REF NO.'S 1-2, 4-33, 35-51
1.	165-146	1	INPUT GEAR	
2.	166-079	1	INPUT PINION	
3.	331-535	1	RETAINER STRAP	8020 ONLY (GEAR BOX 166-124)
4.	115-178	1	PLUG (O6NF, SQ FM)	
5.	169-041	1	TRANSMISSION HOUSING	
6.	167-180	1	SHAFT	
7.	126-031	1	BEARING	
8.	184-215	1	SPACER	
9.	125-091	2	BEARING (2.165")	
10.	115-525	1	INTERNAL SNAP RING (3.543")	
11.	125-073	1	BEARING (2.362")	
12.	166-080	1	OUTPUT PINION	
13.	183-749	3	PLANET PIN	
14.	105-534	4	DOWEL PIN (.375"X.875")	
15.	165-149	1	RING GEAR	
16.	165-145	3	PLANET GEAR	
17.	126-065	3	BEARING (.984")	
18.	126-009	6	THRUST WASHER RACE(1.000")	
19.	167-184	1	INPUT SHAFT	SEE FOOTNOTE 1
	166-279	1	INPUT SHAFT	
20.	165-152	1	SPLINED SLEEVE	
21.	157-552	1	INTERNAL SEAL (1.969")	
22.	184-815	1	SEAL SLEEVE	
23.	106-379	4	FL LK SCREW (M6-1.00 X 20MM)	QTY. FOR 8020 IS 2
24.	115-544	1	INTERNAL SNAP RING (1.188")	
25.	125-072	1	BEARING (.394")	SEE FOOTNOTE 2
	125-119	1	BEARING (.393")	SEE FOOTNOTE 3
26.	106-156	1	BOLT (3/8-NF x 1-1/16")	SEE FOOTNOTE 2; USE LOCTITE 680
	107-068	1	BOLT (3/8-NF x 1.50)	SEE FOOTNOTE 3; USE LOCTITE 680

FOOTNOTES

- 1 - SUPERSEDED BY 166-279
- 2 - USED ON SHAFT 167-184
- 3 - USED ON SHAFT 166-279

ROCKWELL RIGID REAR DIFFERENTIAL

5020 - 7520 - 8020

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-046	2	BOLT (7/16-NC X 2-1/4")	
	105-911	2	BOLT (7/16-NC X 2-3/4")	5020 ONLY
2.	105-073	10	LOCK WASHER (7/16")	
3.	106-469	8	FLG SCREW (M12-1.75 X 30MM)	
4.	105-424	10	LUG NUT (3/4-NF)	NOT INCLUDED WITH REF NO. 17
5.	105-425	4	BOLT (1-NC X 2-1/2")	
6.	105-426	12	LUG BOLT (3/4-NF X 1-13/16")	NOT INCLUDED WITH REF NO. 17
7.	105-919	4	FLG NUT (1-NC)	
8.	115-152	1	PLUG (12N, SQ FM)	
9.	115-488	2	INTERNAL SNAP RING (4.331")	
10.	115-546	2	EXTERNAL SNAP RING (2.400")	
11.	125-027	2	BALL BEARING (2.362")	
12.	156-241	1	STREET ELBOW (02N-02NF90)	
13.	157-003	2	O-RING (346 D70)	EARLY STYLE USED WITHOUT SEAL (REF #20)
	157-043	2	O-RING (347 D70)	LATER STYLE USED WITHOUT SEAL (REF #20)
14.	159-003	1	AIR VENT (02N)	
15.	161-253	1	CARRIER PARTS ASSEMBLY	5020/7520/8020, INCL REF NO'S 21 & 22
16.	161-143	1	DIFFERENTIAL HOUSING	7520/8020
	161-128	1	DIFFERENTIAL HOUSING	5020
17.	161-142	2	AXLE	7520/8020
	161-132	2	AXLE	5020
18.	184-083	2	RETAINER	SEE FOOTNOTE 1
19.	115-165	1	PLUG (08N, ALN)	
20.	157-620	2	INTERNAL SEAL (3.000")	
21.	105-930	1	WASHER (1-1/32")	
22.	106-208	1	FLANGE LOCKNUT (1-UNEF)	
23.	182-141	1	YOKE (1.289"-10S)	
24.	315-239	2	AXLE RETAINER STRAP	SEE FOOTNOTE 2
25.	106-491	4	ROLL PIN (M12 X 36MM)	
26.	106-594	4	SCREW (M12-1.75 X 60MM)	

FOOTNOTES

- REFER TO REPLACEMENT DIAGRAM 052-129
- 8020 WITH SLOTTED REAR DIFFERENTIAL MOUNTS ON FRAME, BEGINS WITH S/N

DIFFERENTIAL COMPONENTS

EATON

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	160-288		CARRIER PARTS ASSEMBLY	
	160-434		CARRIER PARTS ASSEMBLY	7610 REAR, SEE FOOTNOTE 1
	161-245		CARRIER PARTS ASSEMBLY	BEGINS WITH S/N 5N0293, 7610
1.	N.A.	1	NO-SPIN DIFFERENTIAL	
2.	105-418	1	LOCKNUT (1-NEF, NYLOK)	ENDS WITH S/N 5N0292
	106-884	1	HEX LOCKNUT (M30-1.5)	BEGINS WITH S/N 5N0293, 7610
3.	105-506	2	COTTER PIN (3/16" X 1-1/2")	
4.	501-591	1	PINION BEARING SPACER	
5.	105-930	1	PINION WASHER	ENDS WITH S/N 5N0292
	106-885	1	PINION WASHER (31MM ID)	BEGINS WITH S/N 5N0293, 7610
6.	N.A.	6	LOCK WASHER	
7.	N.A.	6	BOLT (9/16-NC X 1-1/2")	
8.	125-238	1	RACE	
9.	125-313	2	RACE	
10.	125-349	1	BEARING	
11.	125-350	1	BEARING	
12.	125-351	2	BEARING	
13.	155-888	1	INTERNAL SEAL	SEE FOOTNOTE 2
	121-004	1	SEAL	
14.	165-663	AR	BEARING CAGE SHIM (.003")	
	165-664	AR	BEARING CAGE SHIM (.006")	
	165-665	AR	BEARING CAGE SHIM (.010")	
	165-666	AR	BEARING CAGE SHIM (.015")	
15.	501-584	1	DIFFERENTIAL HOUSING	
16.	501-580	1	RING GEAR AND PINION	OBSOLETE
	501-784	1	RING GEAR AND PINION	OBSOLETE, INCL. REF. NO. 2
17.	501-581	1	DIFFERENTIAL CASE PARTS ASSEMBLY	
18.	501-578	1	BEARING ADJUSTER	INCLUDES 16 BOLTS, NUTS, AND WASHERS
19.	501-582	1	BOLT KIT	INCL. REF. NO. 9
20.	501-589	1	PINION BEARING CAGE	INCL. REF. NO. 9, 7610 REAR, SEE FOOTNOTE 1
	501-755	1	PINION BEARING CAGE	
21.	105-048	1	BOLT (1/2-NC X 1-1/2")	
22.	125-396	1	BEARING	
23.	501-573	1	SPIDER ASSEMBLY	
24.	501-574	2	SPRING RETAINER	
25.	501-577	2	COMPRESSION SPRING	
26.	501-576	2	SIDE GEAR	
27.	501-583	2	CAM AND CLUTCH	
28.	501-579	1	BEARING ADJUSTER (5.5 OD)	

NOT SHOWN:

FOOTNOTES:

- HAS SPOT FACING FOR I10-671 MACHINERY BUSHINGS TO MOUNT GEARBOX ADAPTOR PLATE.
- USED ON I60-288 AND I60-434 CARRIER ASSEMBLIES.

NOTE:

REAR STEERING PLANETARY DIFFERENTIAL
 (HEAVY DUTY)
 6520, 7020, 7520, 8020

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	161-227	1	AXLE HOUSING	
2.	106-549	2	DOWEL PIN (1/2" x 1", HARDENED)	
3.	161-249	1	DIFFERENTIAL (NO-SPIN)	W/ L35R YOKE 6520, 7020
	161-269	1	DIFFERENTIAL (NO-SPIN)	W/ 410 YOKE 7520, 8020
	161-250	1	DIFFERENTIAL (LIMITED SLIP)	W/ L35R YOKE 6520, 7020
	161-268	1	DIFFERENTIAL (LIMITED SLIP)	W/ 410 YOKE 7520, 8020
4.	106-419	12	STUD BOLT (M18-1.50 X 80mm)	
5.	106-035	12	LUG NUT (M18-1.50)	
6.	161-225	2	WHEEL END	HEAVY DUTY
7.	106-383	14	FLG LK SCREW (M10-1.50 X 30mm)	
8.	181-981	2	TAPERED INSERT (1.00")	
9.	181-208	4	SPINDLE WASHER (1")	
10.	125-473	8	BRONZE BUSHING	
11.	155-830	2	INTERNAL SEAL ((2.750"))	
12.	125-433	2	BRONZE BUSHING (1.50")	
13.	184-721	4	BUSHING (25.4mm)	
14.	315-038	4	SPINDLE BOLT LOCK	
15.	125-771	2	COMPOSITION BUSHING (1.250")	
16.	183-765	2	TAPERED PIN (1.25")	
17.	151-044	2	CYL (2" X 1" X 6")	7520, 8020
	151-146	2	CYL (2" X 1" X 4")	6520, 7020
18.	125-770	2	COMPOSITION BUSHING (1.000")	
19.	160-420	1	TIE ROD	
20.	105-378	2	JAM NUT (1-NF)	
21.	160-413	2	ROD END	
22.	125-432	2	BRONZE BUSHING (1.00")	
23.	183-764	2	TAPERED PIN (1.00")	
24.	110-078	2	MACHINERY BUSHING (1.00")	
25.	115-524	2	EXTERNAL SNAP RING (1.00")	
26.	115-165	2	PLUG (O8N, ALN)	
27.	106-164	2	FLG LK SCREW (M10-1.50 X 30mm)	
28.	105-491	4	BOLT (1-UNS X 3", GD8)	
29.	106-654	4	FLG LK SCREW (M10-1.50 X 16mm)	
30.	181-982	2	TAPERED INSERT (1.25")	
31.	105-273	2	SCREW (M12-1.75 X 30mm)	
32.	155-912	1	AIR VENT (20N)	
33.	115-127	1	REDUCER (O8N-O2NF)	
34.	181-253	4	MACHINERY BUSHING (1", 18GA)	

FOOTNOTES

WHEEL END

STANDARD DUTY

6520, 7020, 7520, 8020

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	161-202		WHEEL END PARTS ASS'Y	INCL REF NO.'S 1 - 30, 6520 & 8020; SEE F/N 1
	166-484		WHEEL END REPAIR KIT	INCL REF NO.'S 12, 13, 15, 16, 20, 22, 23, 25, & 30
1.	167-183	1	SHORT SHAFT	6520, 8020
2.	169-038	1	SPINDLE HOUSING	6520; SEE F/N 2
	169-053	1	SPINDLE HOUSING	6520, 8020; SEE F/N 3
3.	155-874	1	INTERNAL SEAL (3.005")	
4.	125-809	1	COMPOSITION BUSHING (2.250")	
5.	126-060	2	THRUST WASHER RACE (1.500")	
6.	157-608	1	INTERNAL SEAL (7.881")	
7.	126-064	2	TAPERED BEARING (4.330")	
8.	126-063	2	TAPERED BEARING (6.496")	
9.	169-036	1	PLANETARY HOUSING	
10.	107-206	6	SCREW (M12-1.75 X 35mm)	
11.	165-150	1	RING GEAR	
12.	126-059	6	THRUST WASHER RACE (1.375")	
13.	126-031	6	NEEDLE BEARING (1.375")	
14.	118-020	1	INTERNAL SNAP RING (6.5")	
15.	165-148	3	PLANET GEAR (21T)	
16.	157-086	1	O-RING (272 D70)	
17.	115-496	1	INTERNAL SNAP RING (6.5")	
18.	106-419	6	STUD BOLT (M18-1.50 X 80mm)	
19.	165-151	1	SUN GEAR	
20.	183-746	3	PLANET PIN	
21.	165-766	AR	SHIM (.05mm)	RED
	165-768	AR	SHIM (.254mm)	BROWN
22.	106-549	5	DOWEL PIN (1/2" X 1", HARDENED)	
23.	106-660	4	SCREW (M12-1.75 X 30mm, 10.9)	
24.	115-025	2	PLUG (Ø8N, SQ FM, MAG)	
25.	169-037	1	PLANETARY CAGE	
26.	118-021	1	EXTERNAL SNAP RING (1.5")	
27.	167-187	1	LONG SHAFT	
28.	182-007	1	CROSS/BEARING KIT (1-1/4")	6520 & 8020
	115-003		ZERK (Ø2N22.5)	
	115-157		PLUG (Ø2N)	
	115-500		INTERNAL SNAP RING (1.343")	
29.	184-297	1	HUB	
30.	501-599	6	DETENT BALL (.375")	
31.	106-886	3	SCREW (M12-1.75 X 40mm, ALN)	
32.	157-213	1	SEAL, V-RING	

FOOTNOTES

- REFERS TO 055-476 FOR REPAIR INFORMATION. WHEN REPLACING WHEEL END ALSO REPLACE SEAL AND BUSHING (REF NO.'S 3 & 4). WHEEL END REQUIRES USE OF 1-1/4 QT OF 90W LUBRICANT. WILL FIT ONLY BOLT LOCK STYLE DIFFERENTIAL HOUSINGS.
- ENDS WITH S/N 5M0196. USES TAPERED LOCK PIN, AND TAPER LOCK HOUSING.
- BEGINS WITH S/N 5M0197. USES SPINDLE BOLT LOCK.

BOLT ON BRAKE SYSTEM

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	106-390	2	WASHER (M10)	
2.	106-079	3	BOLT (M10-1.50 X 30MM)	
3.	106-206	1	BOLT (M10-1.50 X 90MM)	
4.	105-271	1	FLG BOLT (M10-1.5 X 40MM)	
5.	106-387	6	FLG LOCKNUT (M10-1.5)	
6.	106-175	1	NUT (M10-1.5)	
7.	110-687	1	ROD END (10mm)	
8.	115-329	1	DUST COVER	
9.	331-552	1	BRAKE PEDAL	
10.	125-786	2	BUSHING	
11.	115-616	1	RETURN SPRING	
12.	163-041	1	BRAKE HOSE (3/16" T X 25")	BEFORE S/N 5S0346
13.	163-219	1	MASTER CYLINDER	
	163-095		MASTER CYLINDER COVER	
	163-096		BELLOWS (CAP LINER)	
	190-180		MASTER CYLINDER REPAIR KIT	
14.	179-118	1	PIN	USE ANTISEIZE
15.	331-154	1	MASTER CYLINDER ROD	
16.	105-894	2	LOCKNUT (M10-1.5)	
17.	332-071	1	BRAKE MOUNT ASSEMBLY	
18.	106-381	1	FLG LK SCREW (M8-1.25 X 25mm)	
19.	106-383	2	FLG LK SCREW (M10-1.50 X 30mm)	
20.	106-386	1	FLG LOCKNUT (M8-1.25)	
21.	156-294	1	TUBE UNION/2-20MX3/16INVFLARE	AFTER S/N 5S0346, SEE FOOTNOTE 1

FOOTNOTES

1. MUST USE WITH MICRO MASTERCYLINDER 163-219

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

PARKING BRAKE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-003	6	FLG LOCKNUT (5/16-NC)	
2.	105-109	2	BOLT (5/16-NC X 1-1/2")	
3.	105-214	2	SCREW (#10-24 X 1/2", FLG HEX)	
4.	217-704	1	PLUNGER SWITCH	
5.	105-826	4	FLG LK BOLT (3/8-NC X 1-1/4")	
6.	105-845	4	FLG LOCKNUT (3/8-NC)	
7.	105-873	6	FLG LK BOLT (5/16-NC X 1")	
8.	110-306	1	CLEVIS PIN (3/8" X .890")	
9.	110-469	1	HANDLE GRIP (7/8", ORANGE)	
10.	163-091	1	BRAKE LEVER	
11.	163-097	1	PARKING BRAKE CONTROL CABLE	
12.	311-149	1	CABLE END CLAMP	
13.	315-056	1	BRAKE MOUNT PLATE	

FOOTNOTES

HOOD

JD POWERTECH
 BEGINS WITH S/N

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	196-177	1	EXHAUST MUFFLER	
2.	331-413	1	COVER PLATE	
3.	315-289	1	HOOD ADAPTER PLATE	
4.	105-823	22	FLG LK BOLT (5/16-NC X 3/4")	
5.	105-003	20	FLG LOCKNUT (5/16-NC)	
6.	305-898	1	BAR, HOOD STIFFENER	
7.	106-198	4	FLG LOCKNUT (1/2-NC)	
8.	110-253	4	POP RIVET (3/16" X 1/2")	
9.	196-019	1	EXHAUST STACK	
10.	305-556	1	HOOD SHELL	
11.	105-841	24	CLIP NUT (5/16-NC)	
12.	106-205	4	WASHER (.191")	
13.	116-433	1	TUBE BOOT (AIR FILTER)	
14.	315-215	2	BACK PLATE	
15.	196-010	1	U-BOLT CLAMP (3")	
	105-091		LOCK WASHER (5/16")	
	105-092		NUT (5/16-NC)	
16.	196-165	1	MUFFLER CLAMP	
	105-091		LOCK WASHER (5/16")	
	105-092		NUT (5/16-NC)	
17.	105-866	8	FLG LK BOLT (5/16-NC X 1-1/4")	
18.	362-777	1	GRILLE	
19.	315-308	1	LATCH MOUNT	
20.	105-831	4	FLG LK BOLT (1/2-NC X 1-1/2")	
21.	106-198	4	FLG LOCKNUT (1/2-NC)	
22.	106-598	8	(9/16", HARDENED)	
23.	315-224	1	HOOD BARRIER	
24.	315-234	1	MOUNT (REMOTE THROTTLE)	
25.	315-291	1	UPPER GRILLE	
26.	107-248	10	FLG BOLT (5/16-NC X 3/4", NLK)	
27.	115-671	AR	BULK EDGE (1/16", SOLD PER 1")	USE 2 @ 4.00"

FOOTNOTES

CONSOLE QUIET PACKAGE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-832	4	FLG LOCKNUT (1/4-NC)	SEE FOOTNOTE 1
2.	105-139	4	CLIP NUT (1/4")	
3.	105-826	4	FLG LK BOLT (3/8-NC X 1")	
4.	105-833	6	FLG LOCKNUT (1/2-NC)	
5.	105-845	4	FLG LOCKNUT (3/8-NC)	
6.	105-820	2	FLG LK BOLT (1/4-NC X 3/4")	
7.	105-823	2	FLG LK BOLT (5/16-NC X 3/4")	
8.	106-038	5	NUTSERT (5/16-NC)	
9.	105-823	5	FLG LK BOLT (5/16-NC X 3/4")	
10.	106-096	6	FLG BOLT (1/2-NC X 1-3/4")	
11.	105-820	4	FLG LK BOLT (1/4-NC X 3/4")	
12.	115-686	AR	BULK EDGING (5/32")	USE 18"
13.	315-088	1	CONSOLE	
14.	314-101	1	CONSOLE PANEL	
	315-306	1	CONSOLE PANEL (KCS)	
15.	314-102	1	CENTER CONSOLE PANEL	SEE FOOTNOTE 3
	314-171	1	CONSOLE PANEL	SEE FOOTNOTE 4
	315-305	1	CONSOLE PANEL (KCS)	USED WITH CABS ONLY
16.	315-072	1	CONSOLE SUPPORT	
	345-127	1	CONSOLE SUPPORT	8020T ONLY
17.	362-634	1	COVER PLATE	
18.	115-399	AR	BULK STRIP (1/4" X 3/4")	USE 38"
19.	115-866	1	FRONT PANEL DOOR INSUL	
20.	115-868	1	LOWER FRONT PANEL INSUL	
21.	115-869	1	CENTER INSTR PANEL INSUL	
22.	315-221	1	INSTR PANEL FIREWALL	
23.	115-867	1	INSTR PANEL FIREWALL INSUL	
24.	105-841	2	CLIP NUT (5/16-NC)	
25.	115-873	1	THROTTLE SEAL	
26.	116-271	AR	BULK STRIP (1/8" X 3/4")	USE 36"
27.	106-037	2	FLG BOLT (5/16-NC X 1/2")	
28.	362-641	1	PUMP COVER	
29.	217-756	1	INTERLOCK DISPLAY/MODULE	
30.	314-172	1	RETAINER	SEE FOOTNOTE 4
31.	362-735	2	THREE SLOT WINDOW/SWITCH PANEL	

FOOTNOTES

- 1-PARTS USED WITH RIGID REAR DIFFERENTIAL ONLY
- 2-PLUG OPEN HOLES WITH SILICONE SEALANT,
- 3-FOR UNITS WITHOUT INTERLOCK MODULE, ENDS WITH S/N
- 4-FOR UNITS WITH INTERLOCK MODULE, BEGINS WITH S/N

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SEAT MOUNT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-003	4	FLG LOCKNUT (5/16-NC)	
2.	105-092	4	NUT (5/16-NC)	
3.	105-267	4	CUP WASHER (5/16")	
4.	105-814	2	FLG LOCKNUT (3/8-NC)	
5.	105-829	2	FLG LK BOLT (1/2-NC X 1")	
6.	106-029	2	BOLT (3/8-NC X 3/4", BUT HD)	
7.	106-159	5	FLG SCREW (1/4-NC X 3/4")	
8.	110-303	1	MACHINERY BUSHING	
9.	110-520	1	SEAT BELT KIT	
10.	115-425	1	SEAT	INCLUDES SEAT TRACK SET AND OPERATOR PRESENCE SWITCH
	115-445	1	SEAT	SEAT ONLY
11.	115-506	2	EXT CLIP RING	
12.	115-518	1	EXT SNAP RING	
13.	116-108	AR	HOSE (.296" ID)	USE 1"
14.	125-001	2	BEARING	
15.	183-609	1	LATCH PIN	
16.	314-070	1	SEAT BASE	
17.	314-103	1	SIDE CONSOLE COVER	
18.	314-135	1	SEAT LATCH	
19.	363-118	1	DIODE BLOCK BRACKET	
20.	105-820	1	FLG LK BOLT (1/4-NC X 3/4")	
21.	105-832	1	LOCKNUT (1/4-NC)	
22.	217-752	1	OPERATOR PRESENCE DELAY	
23.	217-764	1	ROCKER SWITCH (SPDT)	
24.	217-763	1	ROCKER SWITCH (3-POSITION)	
25.	110-854	2	SWITCH ACTUATOR GUARD	USE ONLY WITH REAR STEER

FOOTNOTES

BACKFILL BLADE

8020 8020T

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-499	6	BOLT (3/4-NC X 1-3/4")	
2.	105-969	4	FLG BOLT (5/8-NC X 1-1/2",GD 8)	
3.	106-096	2	FLG BOLT (1/2-NC X 1-3/4",GD 8)	
4.	106-098	1	FLANGE BOLT (3/4-NC X 2",GD 8)	
5.	115-782	2	FRICTION WASHER (8.28")	
6.	125-754	1	COMPOSITION BUSHING	
7.	125-771	2	COMPOSITION BUSHING	
8.	125-772	2	COMPOSITION BUSHING	
9.	125-773	3	COMPOSITION BUSHING	
10.	125-780	1	COMPOSITION BUSHING	
11.	314-142	1	TOP BOLT PLATE	
12.	315-040	1	LIFT ARM	
13.	181-974	2	TAPERED INSERT (1.5")	
14.	181-975	2	TAPERED INSERT (1.75")	
15.	181-982	2	TAPERED INSERT (1.25")	
16.	183-587	2	TAPERED PIN (1.25" X 3")	
17.	183-608	2	TAPERED PIN (1.5" X 3.75")	
18.	183-610	1	TAPERED PIN (2" X 6.9")	
19.	183-611	1	TAPERED PIN (1.75" X 4")	
20.	183-612	1	TAPERED PIN (1.75" X 16")	
21.	184-064	1	TAPERED INSERT (2")	
22.	314-076	1	BACKFILL BLADE PIVOT	
23.	300-4338	1	BACKFILL BLADE	SEE FOOTNOTE I
24.	151-056	1	CYL (3.5" X 1.75" X 8.0")	

NOT SHOWN:

FOOTNOTES:

- I. BACKFILL BLADE 314-081 IS SUPERSEDED BY BACKFILL BLADE 300-4338

NOTE:

GROUND DRIVE PUMP CONTROLS

7520/8020

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-095	4	WASHER (1/4")	
2.	105-106	2	BOLT (1/4-NC X 2")	SEE FOOTNOTE 2
3.	105-216	2	BOLT (NO. 6-32 X 1-1/4", BUT HD)	
4.	105-512	1	COTTER PIN	
5.	105-820	2	FLANGE LOCK BOLT	
6.	105-823	6	FLANGE LOCK BOLT	
7.	105-832	4	FLANGE LOCKNUT	
8.	105-834	1	FLANGE LOCKNUT	
9.	105-841	4	CLIP NUT	
10.	107-440	1	FLG LK SCREW (1/4-NF X 3/4")	
11.	106-154	3	FLANGE LOCKNUT	
12.	106-166	1	U-BOLT	
13.	106-169	1	SPEED NUT BAR	SEE FOOTNOTE 2
14.	110-318	1	BALL JOINT	
15.	110-495	1	KNOB (ORG)	
16.	110-521	1	CABLE SWIVEL	
17.	116-190	1	OPEN/CLOSE GROMMET	
18.	184-075	2	SPACER	
19.	196-131	1	FRICTION CONTROL	
20.	196-134	1	CONTROL CABLE	
21.	314-151	1	CABLE SPACER	
22.	365-125	1	PUMP CONTROL LEVER	
23.	501-153	1	FLANGE LOCK BOLT	
24.	506-021	2	NUT (NO. 10-32)	
25.	106-213	1	COUPLER NUT	
26.	184-131	1	SPACER	
27.	363-125	1	SWITCH MOUNT	SEE FOOTNOTE 2
28.	315-055	1	SWITCH ACTUATOR	SEE FOOTNOTE 2
29.	106-159	2	FLANGE SCREW (1/4-NC X 3/4")	
30.	365-239	1	SWITCH ACTUATOR	SEE FOOTNOTE 1
	315-318	1	ACTUATOR	BEGINS WITH S/N
31.	363-292	1	SWITCH BRACKET	SEE FOOTNOTE 1
	315-315	1	SWITCH BRACKET	BEGINS WITH S/N
32.	215-046	1	SWITCH	SEE FOOTNOTE 1
	215-082	1	ROLLER PLUNGER BRACKET	
33.	106-409	1	STAR WASHER	SEE FOOTNOTE 1
34.	105-836	2	FLANGE LOCK BOLT	SEE FOOTNOTE 2
35.	315-085	1	TRIGGER SUPPORT (SWITCH)	SEE FOOTNOTE 2
36.	215-530	3	SPADE TERMINAL (NO. 10)	
37.	215-457	3	WIRE (16 GA) BLK	6 INCHES EACH
38.	215-478	3	BUTT CONNECTOR (14-16 GA)	

FOOTNOTES

- 1- BEGINS WITH S/N 5J0284, ENDS WITH S/N
- 2- ENDS WITH S/N 5J0283.

BACKFILL BLADE CONTROL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-184	2	SCREW (#10-24 X 3/4")	
2.	106-155	8	SCREW (#4-40 X 5/8")	
3.	105-833	1	FLANGE NUT	
	106-171	1	NUT	
4.	110-330	1	DUST BOOT	
5.	110-526	1	JOYSTICK HANDLE	
6.	215-081	4	SWITCH	
7.	217-708	1	ROCKER SWITCH	
8.	314-115	1	CONTROL STOP	
9.	365-133	1	CONTROL MOUNT	
10.	365-157	1	UPPER CONTROL STOP	
11.	110-397	4	SLEEVE CAP	

FOOTNOTES

CHECK VALVE HYDRAULICS

ENDS WITH S/N 5J0057 (5020, 7520)
ENDS WITH S/N 5J0055 (8020)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	154-004	1	CONNECTOR (06S-08J)	
	155-705		O-RING (906 D90)	
2.	159-112	1	CHECK VALVE	
3.	154-235	1	CONNECTOR (080-08S90)	
	157-039		O-RING (014 D90)	
	155-706		O-RING (908 D90)	
4.	154-708	1	HOSE (080-34"-3000)	
5.	154-246	1	CONNECTOR (080-06S)	
	157-039		O-RING (014 D90)	
	155-705		O-RING (906 D90)	
6.	154-257	1	SWIVEL BRANCH TEE (080)	
	157-039		O-RING (014 D90)	
7.	154-327	1	CAP (080F)	
8.	155-706	1	O-RING (908 D90)	

NOT SHOWN:

FOOTNOTES:

NOTE:

AUXILIARY MANIFOLD HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-834	2	FLG LOCKNUT (3/8-NC)	
2.	110-353	2	WORM CLAMP (1/2" to 1-1/4")	
3.	110-097	1	CLAMP (1/2")	
4.	115-374	AR	BULK HOSE (3/4", SOLD PER 1')	(8020) USE 13" (8020T) USE 80" (7520) USE 37"
5.	154-300	1	CONNECTOR (12S-12S90)	
6.	154-710	1	HOSE (100FX-54"-2750)	
	515-532	1	HOSE (100FX45/90-74"-3000)	8020T ONLY
7.	155-146	1	S/O COUPLER (12S-16H90)	8020 ONLY
	155-174	1	S/O COUPLER (12S-12H90)	8020T ONLY
8.	155-196	1	S/O COUPLER (12S-12H45)	ENDS WITH S/N 5L0536
9.	155-630	1	RELIEF CARTRIDGE (2000PSI)	
10.	155-709	2	O-RING (-912 D90)	
11.	155-933	2	QDC ADAPTER (12-12S/J)	
	191-270		SEAL REPAIR KIT	
12.	155-935	2	DUST CAP (1/2"-3/4")	
13.	155-936	1	DUST PLUG (1/2"-3/4")	
14.	155-958	1	TRICK QDC BODY (12-14S)	
15.	159-080	1	HYDRAULIC MANIFOLD	
16.	105-179	2	BOLT (3/8-NC X 3-1/2")	
17.	181-075	2	SLEEVE	USED WITH BACKHOE OPTION ONLY

FOOTNOTES

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

DUMP VALVE HYDRAULICS

ENDS WITH S/N 5H0469

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-224	2	BOLT (1/4-NC X 2-1/2")	
2.	105-085	2	FLG LOCKNUT (1/4-NC)	
3.	154-227	1	CONNECTOR (08S-06090)	
	155-706		O-RING (908-D90)	
	157-038		O-RING (012 D90)	
4.	154-343	1	UNION (060F-06SM90)	
	155-705		O-RING 906 D90)	
5.	154-722	1	HOSE (060-32"-3000)	
6.	155-163	1	ADAPTER BUSHING (08S-06SF)	
7.	158-569	1	SOLENOID DIVERSION VALVE	
8.	324-127	2	VALVE SPACER	

FOOTNOTES

HYDRAULIC MOTOR

14 TOOTH EATON AND ROCKWELL DIFFERENTIALS

7520/8020

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	158-718		HYDRAULIC MOTOR	BENT AXIS
1.	500-644	1	SEAL REPAIR KIT	

FOOTNOTES

HYDRAULIC CONTROL VALVE 1 SPOOL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	158-575		HYDRAULIC CONTROL VALVE	
1.	500-598	1	PORT PLATE	
2.	106-288	4	STUD BOLT	
3.	105-079	4	LOCK WASHER (1/4)	
4.	105-078	4	NUT (1/4-NC)	
5.	500-599	1	VALVE MOUNT PLATE	
6.	500-662	2	POPPET ASSEMBLY	
7.	117-012	2	COMPRESSION SPRING	
8.	500-665	1	PLUG ASSEMBLY	
	155-706		O-RING (908 D90)	
9.	500-664	1	PLUG ASSEMBLY	
	155-706		O-RING (908 D90)	
10.	500-661	2	COIL/PLUNGER ADAPTER	
11.	216-015	2	CONTROL VALVE SOLENOID	
12.	106-572	2	NUT (1/2-NF)	
13.	155-715	2	O-RING (019 D90)	
14.	155-778	2	O-RING (014 D70,VITON)	
15.	500-597	1	CONTROL VALVE SECTION	
	500-663		LOCKOUT PLUNGER	

FOOTNOTES

HYDRAULIC CYLINDER

3.5" X 1.75" X 8.0"

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-056		CYL (3.5 X 1.75 X 8.0)	INCLUDES REF NO.'S 1 THRU 8
1.	190-174	1	SEAL REPAIR KIT (3.5" X 1.75")	
2.	149-302	1	LOCK RING (3.5")	
3.	152-006	1	CYLINDER BARRÉL (4.125" X 3.5")	
4.	106-122	1	BOLT (7/8-NC X 2-1/4", GD8)	SEE FOOTNOTE 1
5.	105-363	1	WASHER (7/8")	
6.	149-301	1	CYLINDER PISTON (3.625")	
7.	150-761	1	CYLINDER HEAD (3.750")	
8.	150-436	1	CYLINDER ROD (1.75")	

NOT SHOWN:

	259-040		U-SEAL INSTALLER (1.5" - UP)	
	259-238		WIPER SEAL INSTALLER (1.75")	
	259-244		PISTON SEAL INSTALLER (3.50")	
	259-245		PISTON INSTALLER (3.50")	
	259-188		CYL HEAD SPANNER - TWO PIN	

FOOTNOTES

1-ASSEMBLE USING LOCTITE 277 OR EQUAL; TORQUE TO 410-460 FT-LBS (550-625 N.M)

BFB TILT HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	110-030	2	CABLE TIE (1/16" TO 4")	
2.	115-713	1	ABRASION SLEEVE (1.59" X 24")	
3.	154-250	2	CONNECTOR (040-06S90)	
4.	154-252	2	CONNECTOR (040-04S90)	
5.	154-694	1	HOSE (040FX90-98"-3000)	
6.	154-725	1	HOSE (040FX-90"-3000)	
7.	151-039	1	HYD CYL (2" X 1" X 5")	

FOOTNOTES

NOTE:
REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

ELECTRICAL DIAGRAM

8020 DEERE (FRAME HARNESS)

BEGINS WITH S/N: 5L0638

REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	214-050	1	FRAME HARNESS	
HARNESS HARDWARE:				
	110-366	AR	VELCRO STRIP (25")	
	110-431	AR	VELCRO STRIP, PLAIN (25")	
	110-259	3	CLAMP (5/8")	
	105-836	2	FLANGE LOCK BOLT	
	105-832	2	FLANGE NUT (1/4-NC)	
	110-332	1	CLAMP (1-5/8")	
	105-873	1	FLANGE LOCK BOLT	
	105-003	1	FLANGE NUT (5/16")	
	217-813	1	FUSE (ATC, 30 AMP)	
2.	217-527	1	FUEL SENDER	
3.	215-765	1	REAR STEER HARNESS	
	215-931	1	REAR STEER HARNESS	
4.	217-513	1	WATER TEMP SENDER	CALIBRATION NEEDED
5.	214-378	1	TACHOMETER	
	215-415	1	LIGHT KIT (OPTIONAL)	
6.	215-040	1	BUTTON SWITCH	
7.	306-603	1	AUDIO ALARM	
8.	215-087	2	ROLLER LEVER SWITCH	
	106-315	4	SCREW (#4-40 X 1")	
9.	215-173	1	ALTERNATOR	
	106-005	1	BOLT (M8-1.25 X 16MM)	
10.	158-555	1	SOLENOID HI-LOW SHIFT VALVE	OBSOLETE, NO SERVICE PARTS AVAILABLE
	150-4087	1	SOLENOID HI-LOW SHIFT VALVE	USE REPLACEMENT COIL 217-948, WILL NOT FIT OBS VALVE
11.	158-574	1	SOLENOID BFB VALVE	
12.	158-569	1	SOLENOID DIVERSION VALVE	
13.	217-705	1	PLUNGER SWITCH	
	105-214	2	SCREW	
14.	215-133	1	FUEL GAUGE	
	215-415	1	LIGHT KIT (OPTIONAL)	
15.	217-531	1	WATER TEMP GAUGE	
	215-415	1	LIGHT KIT (OPTIONAL)	
16.	158-575	1	SOLENOID REAR STEER VALVE	
17.	215-275	1	BATTERY	OBSOLETE
	215-244	1	BATTERY	
18.	215-046	1	ROLLER LEVER SWITCH	SEE FOOTNOTE 1
	215-087	1	ROLLER PLUNGER BRACKET	SEE FOOTNOTE 1
	215-047	1	ACTUATOR BRACKET	OBSOLETE, INCLUDES NUTS & BOLTS. SEE FOOTNOTE 2
	105-216	2	BOLT (#6-32 X 1-1/4")	
	105-215	2	BUT (#6-32)	
19.	215-148	-	TEMPERATURE SWITCH	OBSOLETE, SEE FOOTNOTE 3
	214-819	1	TEMPERATURE SWITCH	SEE FOOTNOTE 4
20.	306-609	1	HORN	OBSOLETE
	192-006	1	HIGH FREQUENCY HORN	
21.	214-281	1	GROUND JUMPER WIRE	
22.	217-128	1	TEMPERATURE SWITCH (JT3510)	(OBSOLETE) SEE FOOTNOTE 3
	214-819	1	TEMPERATURE SWITCH	SEE FOOTNOTE 4

FOOTNOTES

- BEGINS WITH S/N 5L0638
- ENDS WITH S/N 5L0637
- ENDS WITH S/N _____
- BEGINS WITH S/N _____

ELECTRICAL SCHEMATIC

8020 DEERE

ENDS WITH S/N 5L0637.

CKT NO.	WIRE COLOR	FUNCTION	REMARKS
1	BLK	SYSTEM GROUND	
2	RED	BATTERY CIRCUIT	
3	ORG	IGNITION CIRCUIT	
4	RED	BATTERY CIRCUIT (CIRCUIT BREAKER PROTECTED)	
5	BLK	TACH CIRCUIT TO ALTERNATOR	
6	WHT/RED	IGNITION SWITCH START "ST"	
7	YEL	BACKFILL BLADE SWITCH TO SOLENOID (UP)	
8	WHT/GRN	BACKFILL BLADE SWITCH TO SOLENOID (DN)	
9	WHT/BLK	BACKFILL BLADE SWITCH TO SOLENOID (ANGLE R)	
10	YEL/BRN	BACKFILL BLADE SWITCH TO SOLENOID (ANGLE L)	
11	WHT/BLU	BACKFILL BLADE SWITCH TO SOLENOID (TILT R)	
12	GRN	BACKFILL BLADE SWITCH TO SOLENOID (TILT L)	
13	PUR	BACKFILL BLADE & REAR STEER TO DIV VALVE SOLENOID	
14	YEL/RED	SWITCH TO FLASHER RELAY	
15	YEL/BLU	SWITCH TO WORK LIGHTS	
16	YEL/RED	FLASHER RELAY TO HAZARD LIGHTS	
17	YEL/BLK	SWITCH TO HEADLIGHTS	
18	ORG	FOOT SWITCH TO TOW VALVE SOLENOID	
19	ORG/BLK	KILL LATCH RELAY TO FUEL SOLENOID	
20	ORG/GRN	KILL SWITCH TO TRACTOR HARNESS	
21	ORG	KILL LATCH RELAY TO SWITCH	
22	YEL	TACH TO ALTERNATOR WIRE (66)	
23	ORG	COMBO SWITCH TO SOLENOID	
24	YEL/BLK	ALT/FAN RELAY TO ALTERNATOR	
25	ORG/GRN	FUEL INT RELAY TO DELAY TIMER & FUEL SOLENOID	
26	WHT/BLK	START RELAY TO START SOLENOID	12 GAUGE WIRE
27	BLU/RED	PARK BRAKE SWITCH TO GROUND DRIVE NEUTRAL SWITCH	
28	WHT/BLK	START INTERLOCK RELAY TO START RELAY	18 GAUGE WIRE
29	TAN/BLK	SEAT SWITCH TO LIGHT & START INTERLOCK RELAY	
30	YEL/BLK	GD/A RELAY TO START INTERLOCK RELAY	
31	PUR	GROUND DRIVE NEUTRAL SWITCH TO GD/A RELAY & LIGHT	
32	WHT/BLU	GD/A RELAY TO INTERLOCK MODULE	
33	GRA	HYDRAULIC FILTER LIGHT TO SWITCH	
34	GRA	ATTACH NEUTRAL SW TO GND DR/ATTACH RELAY & LIGHT	

CAB

7520/8020

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	100-753		CAB	INC REF #'S 1-13
1.	110-603	2	MIRROR HEAD	
2.	110-604	2	MIRROR ARM	
3.	217-057	2	WORKING LIGHT	
4.	217-058	2	WARNING LIGHT	
5.	217-059	1	INTERIOR LIGHT	
6.	217-733	1	WIPER/WASHER SWITCH	
7.	502-047	1	DOOR HOLDER PLUNGER	
8.	502-048	1	WASHER KIT	
9.	502-056	1	DOOR HOLDER SOCKET	
10.	502-050	1	WIPER MOTOR (2 SPEED)	
11.	502-051	1	WIPER MOTOR (1 SPEED)	
12.	502-052	1	LEFT OUTSIDE HANDLE	
	502-054	1	RIGHT OUTSIDE HANDLE	
	502-057		HANDLE GASKET	
13.	502-053	1	LEFT LATCH ASSEMBLY	
	502-055	1	RIGHT LATCH ASSEMBLY	
	502-057		HANDLE GASKET	
14.	502-058	1	4 SPOOL VALVE COVER	
	502-059	1	1 SPOOL VALVE COVER	

NOT SHOWN:

502-049 2 LATCH STUD

FOOTNOTES

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