

Ditch Witch[®]

JT2510

ISSUE NO. 04PL-05/19
For Replacement Copy Order **P/N 053-433**

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This manual contains information concerning the following models:
JT2510 Directional Drilling System

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FRAME COMPONENTS

INNER ROLLER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	355-972		ROLLER	INCLUDES REF No's 1 - 9
1	355-942	1	ROLLER SHAFT	
2	356-265	1	ROLLER	
3	118-018	2	INTERNAL SNAP RING (1.875)	
4	115-545	2	EXTERNAL SNAP RING (.750)	
5	105-059	2	WASHER (.7/16")	
6	106-031	2	LOCKNUT (M12-1.75, NLK)	
7	110-773	2	MACHINERY BUSHING (3/4"X18 GA)	
8	125-094	2	BALL BEARING (.787")	
9	157-500	2	INTERNAL SEAL	

NOT SHOWN:

FOOTNOTES:

NOTE:

STABILIZER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	106-338	2	SCREW (M16-2.00 X 30MM)	
2.	105-247	2	SCREW (M12-1.75 X 35MM)	
3.	115-483	2	EXTERNAL KLIP RING (1-1/4")	
4.	125-415	6	BRONZE BUSHING	
5.	125-772	2	COMPOSITION BUSHING	
6.	125-771	2	COMPOSITION BUSHING	
7.	151-045	2	CYL (2.50" X 1.250" X 8.000")	
8.	181-982	2	TAPERED INSERT (1.250")	
9.	181-974	2	TAPERED INSERT (1.500")	
10.	355-878	1	REAR STABILIZER ARM	
11.	183-766	2	TAPERED PIN (31.75MM X 90MM)	
12.	356-710	2	TAPERED PIN (38.1MM X 124MM)	
13.	183-819	1	PIN	
14.	344-501	-	FRAME	

FOOTNOTES

OUTPUT SHAFT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	110-267	AR	MACHINERY BUSHING (2")	
2.	105-708	2	SET SCREW (3/8-NC X 3/8", NYLOK)	
3.	106-334	4	SCREW (M12-1.75 X 50MM)	
4.	105-434	2	THRUST LOCKNUT (1.563-NEF)	
5.	115-005	1	ZERK (O4N, 90)	
6.	126-090	2	BEARING TAPERED ROLLER	
7.	126-091	2	BEARING RACE	
8.	130-236	1	ROLLER CHAIN (#60-2, 38P)	
	130-206	1	ROLLER LINK	
	130-207	1	OFFSET LINK	
	130-209	1	CONNECTOR LINK	
9.	355-822	2	SEAL RING	
10.	159-240	1	WATER SWIVEL	
	500-837	1	SWIVEL REBUILD KIT	
	500-836	1	PACKING SEAL KIT	
11.	155-898	2	INTERNAL SEAL	
12.	158-754	1	HYDRAULIC MOTOR	
	190-065	1	MOTOR SEAL REPAIR KIT	
	190-066	1	SHAFT SEAL REPAIR KIT	
13.	140-056	1	KEY (3/8" X 1-1/2")	
14.	167-229	1	SHAFT	
15.	176-403	1	SPROCKET (D60B14T)	
16.	176-402	1	SPROCKET (D60B25T)	
17.	106-354	4	NUT (M12-1.75)	
18.	106-391	4	WASHER (M12, UNHARDENED)	
19.	355-820	-	CARRIAGE	

FOOTNOTES

HYDRAULIC MOTOR ROTATION

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	158-754		HYDRAULIC MOTOR	INCL REF NO.'S 1 THRU 3
1.	190-065	1	SEAL REPAIR KIT-MOTOR	
	500-390	1	SEAL REPAIR KIT-MOTOR	
2.	190-066	1	SEAL REPAIR KIT-SHAFT	
	500-391	1	SEAL REPAIR KIT-SHAFT	
3.	140-056	1	KEY (3/8" X 1-1/2")	

FOOTNOTES

WATER SYSTEM

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	115-924	1	HOSE SLEEVE (425-24-88")	
2.	115-751	1	ABRASION SLEEVE (2.38" X 120")	
3.	154-295	1	BK RUN TEE (080)	
4.	154-354	1	CONNECTOR (12N-080)	
5.	154-678	1	HOSE (080-86"-3000)	
6.	154-671	1	HOSE (040-102"-3000)	
7.	154-272	1	REDUCER NUT (080F)	
8.	154-248	1	REDUCER STEM (040)	
9.	154-097	2	CONNECTOR (08NM-08JM)	
10.	159-160	1	CHECK VALVE	
11.	217-543	1	MUD GAUGE	
12.	155-209	1	REDUCER (12N-08NF)	
13.	154-339	1	CONNECTOR (04N-040)	
14.	114-016	1	ELBOW (1/4" NPT)	
15.	159-088	1	QUICK COUPLER BODY	
16.	515-095	1	HOSE (080-08090M-143"-3000)	

NOT SHOWN:

FOOTNOTES:

NOTE:

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

MUD MIXING

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	355-434	1	MOTOR MOUNT	
2.	362-947	1	LID	
3.	155-589	1	HYDRAULIC MOTOR	
	500-458	1	SEAL REPAIR KIT	
4.	355-433	1	SPLINED COUPLER	
5.	125-602	2	BEARING (FLANGED BALL)	
6.	355-440	1	SHAFT	
7.	355-571	2	PROP	
8.	105-174	4	BOLT (1/4-NC X 1/2")	
9.	105-085	5	LOCKNUT (1/4-NC)	
10.	110-346	1	HINGE (6")	
11.	105-132	2	BOLT (7/16-NC X 1-1/2")	
12.	105-151	6	LOCKNUT (7/16-NC)	
13.	106-045	1	BOLT (5/16-NC X 1-3/4")	
14.	115-484	5	EXTERNAL SNAP RING	
15.	105-221	8	SCREW (#14-10 X 1-1/2")	
16.	165-935	2	KEY (1/4" X 1")	
17.	355-570	1	GASKET	
18.	155-690	1	SELECTOR VALVE	
	110-585	1	KNOB (3/8-NC, BLK)	
	500-289	2	EXTERNAL SNAP RING	
	500-290	1	LOCK WASHER (7/16")	
	500-291	2	SO O-RING (113 D70)	
19.	105-285	2	BOLTS (5/16-NC X 1-3/4")	
20.	105-003	2	FLG LOCKNUT (5/16-NC)	
21.	154-313	1	CONNECTOR (08S45-100)	
22.	515-082	1	HOSE (100FX90-60"-3000)	
23.	154-391	2	CONNECTOR (08S-100)	
24.	156-506	1	HYDRAULIC LINE (.625")	
25.	154-325	1	UN BR TEE (100FX-100-100)	
26.	154-482	1	CONNECTOR (04N-04090)	
27.	154-300	2	CONNECTOR (100-12S90)	
28.	154-771	1	HOSE (040FX90-110"-3000PSI)	
29.	156-505	1	HYDRAULIC LINE (.625")	
30.	106-403	1	SET SCREW (5/16-NC X 3/8", ORF)	
31.	105-046	4	BOLT (7/16-NC X 2-1/4")	
32.	105-089	1	LOCKNUT (5/16-NC)	
33.	115-789	1	ABRASION SLEEVE (3.66 X 54")	
34.	117-687	1	ABRASION SLEEVE (1.75 X 83")	
35.	115-755	1	ABRASION SLEEVE (1.59 X 60")	
36.	515-168	1	HOSE (100FX90-120"-3000)	

FOOTNOTES

1. 599-135 REMOTE LUBRICATION CONVERSION KIT INCLUDES REF. NO.'S 37-40 AND 43-44.

ANTIFREEZE TANK BEGINS WITH S/N:

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	364-089	1	FLUID TANK	
2.	155-234	3	CONNECTOR (12NF-12NF, BK)	OBSOLETE
	157-489	3	BK CONNECTOR (12NF, POLY)	SEE FOOTNOTE 2 ENDS WITH S/N:
	153-883	3	BK CONNECTOR (12NF, POLY)	SEE FOOTNOTE 2 BEGINS WITH S/N:
3.	343-079	1	TANK MOUNT	
4.	106-162	3	FLG SCREW (M8-1.25 X 20MM)	
5.	106-386	3	FLG LOCKNUT (M8-1.25)	
6.	105-836	4	FLG LOCK BOLT (1/4-NC X .500")	
7.	355-695	1	FRONT TANK SUPPORT	
8.	105-832	4	FLG LOCKNUT	
9.	355-696	1	REAR TANK SUPPORT	
10.	105-095	4	WASHER (1/4")	
11.	105-224	4	BOLT (1/4-NC X 2-1/2")	
12.	110-707	1	ANTI-FREEZE TANK CAP (96NF)	

NOT SHOWN:

FOOTNOTES:

1. THE EARLY STYLE KIT INCLUDES PARTS SHOWN ON PAGE ENTITLED ANTI FREEZE LINE.
REFER TO 050-200 INSTALLATION INSTRUCTIONS
2. HOLES MAY REQUIRE MODIFICATION FOR NEW FITTINGS.

NOTE:

HYDRAULIC MOTOR TAPERED KEYED SHAFT 1-1/4"

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	150-6055		HYDRAULIC MOTOR	INCL REF NO.'S 2 THRU 6, SEE FOOTNOTES 1, 4 & 5
	155-580		HYDRAULIC MOTOR	INCL REF NO.'S 1 THRU 5, SEE FOOTNOTES 2 AND 3
	153-280		HYDRAULIC MOTOR	INCL REF NO.'S 1 THRU 5, SEE FOOTNOTE 2
1.	500-347	1	SEAL REPAIR KIT	INCL REF NO.'S 2 AND 3, SEE FOOTNOTE 4
2.	155-771	3	O-RING (011 D70)	
3.	155-760	1	O-RING (904 D90)	
4.	165-915	1	KEY (5/16" X 1")	
5.	105-418	1	LOCKNUT (1-20 NEF)	
6.	105-501	1	COTTER PIN (1/8" X 2")	

NOT SHOWN:

FOOTNOTES:

1. USED ON ROTO WITCH II BORING UNITS.
2. USED ON ROTO WITCH III AND IV BORING UNITS.
3. SHAFT AND BEARING KIT- 500-1469
4. FOR OLD STYLE HYD MOTOR 155-579, USE SEAL KIT 500-347 FOR MOTOR VERSION 002, 003, 004 & 005.
SEAL KIT 500-658 IS TO BE USED WITH VERSION 006 MOTORS.
5. HYD. MOTOR 150-6055 BEGINS WITH S/N: CMW_____, USE SEAL KIT 500-3733

NOTE:

HYDRAULIC CYLINDER

2.0" ID BARREL X 1.00" OD ROD X 10.0 STROKE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-076		CYLINDER (2.0 X 1.0 X 10.0)	INCLUDES REF NO.'S 1 THRU 7
1.	190-165	1	SEAL REPAIR KIT (2.0" X 1.0")	
2.	150-778	1	LOCK RING (2")	
3.	152-017	1	CYLINDER BARREL	
4.	106-096	1	FLG BOLT (1/2-NC X 1-3/4", GD8)	SEE FOOTNOTE 1
5.	150-775	1	CYL PISTON (2.0" X 1.0")	
6.	150-772	1	CYLINDER HEAD (2.0" X 1.0")	
7.	150-444	1	CYLINDER ROD	

NOT SHOWN:

259-100	U-SEAL INSTALLER (1"-1.499")
259-235	WIPER INSTALLER (1")
259-239	WIPER/SEAL INSTALLER (2")
259-241	PISTON INSTALLER (2")
259-188	CYLINDER HEAD SPANNER-TWO PIN

FOOTNOTES

1-LUBRICATE WITH WD-40 OR EQUAL. TORQUE TO 90-100 FT-LBS (120-135 N.M)

PUMP HYDRAULICS WITH STAKE DRIVER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	155-465	1	HOSE (24", 565 PSI)	
2.	158-601	1	RELIEF VALVE WITH CARTRIDGE	
	158-553		RELIEF CARTRIDGE	
	155-707	1	O-RING (910 D90)	
	155-750	1	O-RING (022 D90)	
	157-508	1	BACKUP RING (022 D90)	
3.	154-442	1	REDUCER	
	157-040		O-RING (016, D90)	
4.	154-712	3	HOSE (32", 2750 PSI)	
5.	154-315	1	ADAPTER UNION	
	157-040		O-RING (016, D90)	
6.	154-301	1	CONNECTOR	
7.	154-456	1	TEE	
	157-017		O-RING (018, D90)	
8.	154-441	1	REDUCER	
	157-040		O-RING (016, D90)	
9.	154-372	1	ADAPTER UNION	
10.	155-690	1	VALVE	
11.	158-361	1	TANDEM PUMP	
12.	110-250	4	CLAMP	
13.	154-367	1	ADAPTER CONNECTOR	
	157-017		O-RING (018, D90)	
	155-748		O-RING (916, D90)	
14.	154-278	2	CONNECTOR	
	157-037		O-RING (011, D90)	
	155-760		O-RING (904, D90)	
15.	116-094	AR	HOSE (21-1/2", 300 PSI)	
16.	155-161	1	SLIP-ON COUPLER	
	155-709		O-RING (912, D90)	
17.	500-294	1	PLUG	
	155-707		O-RING (910, D90)	
18.	155-622	1	RELIEF VALVE W/ CARTRIDGE	
	155-630		RELIEF VALVE (2000 PSI)	
	155-707	1	O-RING (910 D90)	
	155-749	1	O-RING (023 D70)	
	155-750	1	O-RING (022 D90)	
	157-508	1	BACKUP RING (022 D90)	
19.	154-247	1	CONNECTOR (120-10S)	
20.	154-381	1	PLUG	
21.	363-209	1	LEVER	
22.	110-326	1	GRIP	
23.	105-109	2	BOLT	
24.	105-003	2	LOCKNUT	
25.	105-825	1	FLG LCKBOLT	
26.	154-317	1	TEE	
27.	154-323	2	HYDRAULIC FITTING	
28.	154-301	1	CONNECTOR	

FOOTNOTES:

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ELECTRICAL STRIKE SYSTEM

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-185	3	SCREW (#10-24 X 1/2", RD SLT)	
2.	105-297	4	BOLT (1/4-NC X 3-1/4")	
3.	105-832	14	FLG LOCKNUT (1/4-NC)	
4.	105-834	6	FLG LOCKNUT (3/8-NC)	
5.	105-836	6	FLG LK BOLT (1/4-NC X 1/2")	
6.	106-462	2	BOLT (3/8-NC X 1-1/4" SIL BRZ)	
7.	106-048	6	LOCKNUT (#10-24)	
8.	116-283	4	RUBBER WASHER	
9.	116-376	4	SPACER	
10.	216-011	1	STRIKE ALARM BOX	
	197-903		STRIKE ALARM BOX	RECONDITIONED
11.	216-023	1	CURRENT TRANSFORMER	SEE FOOTNOTE 1.
12.	217-041	2	STROBE LIGHT	
	217-720		STROBE LIGHT BULB	
13.	362-620	2	LIGHT COVER	
14.	362-623	1	COIL COVER BACK	
15.	106-220	2	STAR WASHER (3/8", SIL BRZ)	
16.	363-270	1	LIGHT POLE	INCL. LIGHT BASE
17.	363-089	1	LIGHT BASE	
18.	106-430	3	SCREW (#12-14 X 3/4")	
19.	344-501	-	FRAME	
20.	355-868	-	FRONT WRENCH MOUNT	

FOOTNOTES

- REF 11 OBSOLETE, 216-023 REPLACED WITH 101-146.

ANCHORING PARTS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	355-654		STAKE JACK	INCL REF NO'S 1-6
1.	110-013	2	HAND GRIP (1", BLK)	
2.	105-880	2	SHOULDER BOLT (3/8" X 2", 5/16-NC)	
3.	105-089	2	LOCK NUT (5/16-NC)	
4.	355-656	1	LEVER	
5.	355-655	1	BASE	
6.	355-657	1	GRIP PLATE	
7.	259-084	1	SLEDGE HAMMER (12LBS)	
8.	355-145	1	HILO JACK PULLER-STAKE	STAKE
9.	355-367	6	STAKE	SEE FOOTNOTE 1
	355-188	6	STAKE (HYD DRIVER)	SEE FOOTNOTE 1
	355-189	1	STAKE	
	355-199	1	STAKE CAP	
	105-555	1	ROLL PIN (.375" X 2-1/2")	
	105-556	1	ROLL PIN (.219" X 2-1/2")	
10.	355-367	6	STAKE	SEE FOOTNOTE 2
	355-258	6	FRAME STAKE (1-1/2")	SEE FOOTNOTE 2
	355-189	1	STAKE	
	355-259	1	STAKE CAP	
	105-555	1	ROLL PIN (.375" X 2-1/2")	
	105-556	1	ROLL PIN (.219" X 2-1/2")	
11.	355-685	4	ANCHOR BRACKET	
12.	183-899	8	PIN	
13.	110-128	8	SPRING CLIP PIN (5/32" X 1")	

FOOTNOTES

1. USED WITH HYDRAULIC DRIVER
2. USED WHEN NOT USING HYDRAULIC DRIVER

ANCHORING HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	<u>100-955</u>		2-PT ANCHOR SYSTEM	
1.	158-738	1	HYDRAULIC MOTOR	
	500-746	1	SEAL REPAIR KIT	
2.	355-496	1	ANCHOR DRIVER	
3.	155-481	2	HOSE (060FX-185"-3000)	
4.	154-421	2	CONNECTOR (060-10S90)	
5.	154-222	2	CONNECTOR (060-08S)	
6.	159-030	1	QDC ADAPTER (08-08SF)	
7.	159-029	1	QDC BODY (08-08SF)	
8.	105-247	2	SCREW (M12-1.75 X 35MM)	
9.	106-354	2	FLANGE NUT (M12-1.75)	
10.	106-621	1	SCREW (M10-1.5 X 55MM)	
11.	105-894	1	LOCKNUT (M10-1.5, PRV TRQ, 10.9)	
12.	110-030	4	CABLE TIE (1/16" TO 4")	
13.	115-900	1	ABRASION SLEEVE (2.54 x 190")	

NOT SHOWN:

FOOTNOTES:

NOTE:

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

DRILLING CONNECTIONS

2510-2320 JET TRAC
(OLD STYLE)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	358-238	1	TOOL FLAT ADAPTER	
2.	358-239	2	ADAPTER	
3.	358-240	1	ADAPTER	
4.	106-577	3	RUBBER WASHÉR (1.580")	
5.	358-237	2	FILTER HOUSING	
6.	159-155	3	FILTER SCREEN	
7.	358-989	1	ADAPTER	
8.	358-798	1	FLEX SUB	

FOOTNOTES

BIT WEAR MATERIAL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	355-764		076-41300PR	
	355-766		076-41300HS	
	355-767		076-41300WC	USE 4 OF PART NO. 106-323
	355-768		076-41310PR	
	355-769		076-41310HS	
	355-770		076-41310WC	
	355-771		076-41600PR	
	355-772		076-41600HS	
	355-773		076-41600WC	
	355-774		076-41610PR	USE 4 OF PART NO. 106-323
	355-775		076-41610HS	
	355-776		076-41610WC	
	355-777		102-41300PR	
	355-778		102-41300HS	
	355-779		102-41310WC	USE 4 OF PART NO. 106-323
	355-780		102-41310PR	
	355-781		102-41310HS	
	355-782		102-41310WC	
	355-783		102-41600PR	
	355-784		102-41600HS	
	355-785		102-41600WC	USE 4 OF PART NO. 106-323
	355-786		102-41610PR	
	355-787		102-41610HS	
	355-788		102-41610WC	
	356-237		076-71600PR	
	356-238		076-71600HS	
	356-239		076-71600WC	USE 7 OF PART NO. 106-080
	356-240		076-71610PR	
	356-241		076-71610HS	
	356-242		076-71610WC	
	356-243		076-71900PR	
	356-244		076-71900HS	
	356-245		076-71900WC	USE 7 OF PART NO. 106-268
	356-246		076-71910PR	
	356-247		076-71910HS	
	356-248		076-71910WC	
	357-331		102-71600PR	
	357-332		102-71600HS	

NOT SHOWN:

FOOTNOTES:

NOTE:

HOSE REEL SYSTEMS

HYDRAULIC CONTROL VALVE SINGLE SPOOL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	155-621		HYDRAULIC CONTROL VALVE	INCL REF NO.'S 1 THRU 20. SEE FOOTNOTE 2
1.	500-186	1	RELIEF BALL	
2.	500-185	1	O-RING (110, D70)	
3.	105-079	1	LOCK WASHER (1/4)	
4.	105-226	1	WASHER (5/16)	
5.	105-512	1	COTTER PIN (3/32 X 3/4")	
6.	115-178	1	PLUG (06N, SQ FM HD)	
7.	500-054	1	LEVER BRACKET	
8.	500-055	2	LOCK WASHER (1/4")	
9.	500-056	2	BOLT (1/4-NC X 5/8", SLOT HD)	
10.	500-057	2	CUP SEAL	
11.	500-058	1	CONTROL VALVE LEVER	
12.	500-059	1	LEVER PIN	
13.	500-060	4	BOLT	SEE FOOTNOTE 1
14.	500-061	1	DETENT BONNET	SEE FOOTNOTE 1
15.	501-179	1	SCREW (1/4 X 1/2)	
16.	500-065	1	COMPRESSION SPRING	SEE FOOTNOTE 1
17.	500-066	1	SPOOL COLLER	SEE FOOTNOTE 1
18.	500-182	1	COMPRESSION SPRING	
19.	500-184	1	RELIEF SEAT	
20.	500-374		NEUTRAL RETURN CONVERSION KIT	INCL REF NO.'S 3, 4 AND 13 THRU 17

NOT SHOWN:

FOOTNOTES:

1 - IF REPLACEMENT OF THESE PARTS IS NECESSARY, ORDER RETURN KIT (REF NO. 20) AND REFER TO INSTALLATION DIAGRAM 050-088.

2 - REFER TO INSTALLATION DIAGRAM 052-141 FOR ADJUSTMENT OF PRESSURE RELIEF.

NOTE:

SIDE COWLING

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	110-514	2	LOCKING LATCH	INCL KEY
	110-596		KEY	
2.	115-399	AR	BULK STRIP (3/4" SOLD PER 1")	
3.	115-855	2	INSULATION (DOOR LINER)	
4.	105-118	16	WASHER (3/8")	
5.	351-752	2	DOOR	
6.	351-766	1	RIGHT SIDE COWLING	
7.	115-853	1	INSULATION (TOP)	
8.	<u>351-851</u>	1	LEFT SIDE COWLING	
9.	115-854	2	INSULATION (SIDE)	
10.	115-877	2	INSULATION (SIDE)	
11.	105-873	48	FLG LOCK BOLT (5/16-NC X 1")	
12.	105-003	48	FLANGE LOCKNUT (5/16-NC)	
13.	105-874	4	FLG LOCK BOLT (3/8-NC X 1-1/2")	
14.	105-834	4	FLANGE LOCKNUT (3/8-NC)	
15.	351-739	2	DOOR STOP	

FOOTNOTES

ENGINE MOUNT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	106-596	8	LK SCREW (M14-2.00 X 30mm, EPXY)	SEE FOOTNOTE 2
2.	105-834	8	FLG LOCKNUT (3/8-NC)	
3.	313-141	1	RIGHT REAR ENGINE MOUNT	SEE FOOTNOTE 1
4.	116-141	4	SHOCK MOUNT	
5.	105-827	8	FLG LK BOLT (3/8-NC X 1-1/4")	
6.	313-140	1	LEFT REAR ENGINE MOUNT	SEE FOOTNOTE 1
7.	351-776	1	MOTOR AND SOL MOUNT	
8.	313-138	1	LEFT FRONT ENGINE MOUNT	SEE FOOTNOTE 1
9.	105-076	4	BOLT (1/2-NC X 3")	SEE FOOTNOTE 3
10.	105-884	8	WASHER (.531")	
11.	105-833	1	FLG LOCKNUT (1/2-NC)	
12.	312-149	1	BATTERY HOLD DOWN	
13.	312-136	1	BATTERY STRAP	
14.	105-832	2	FLG LOCKNUT (1/4-NC)	
15.	106-598	8	WASHER (9/16", HARDENED)	

FOOTNOTES

1. NO PAINT AREA; CLEAN PAINT OFF OF ENGINE BLOCK AND MOUNTS BEFORE BOLTING MOUNTS TO BLOCK. TAP OUT MOUNTING HOLES (M14 X 2.0) TO REMOVE PAINT; CLEAN THREADS WITH SAFETY SOLVENT; DRY WITH COMPRESSED AIR.
2. ALL ENGINE MOUNTING BOLTS, TORQUE TO 100 FT LB
3. LOCTITE BOLTS, REF NO 9, TO SHOCK MOUNTS, REF 4.

PUMP HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	155-465	1	HOSE (160FX-28"-565)	
2.	158-601	1	HYD RELIEF VALVE (3000 PSI)	
	158-553		WH RELIEF CARTRIDGE (3000 PSI)	SEE FOOTNOTE 1
3.	154-442	1	REDUCER STEM (100)	
4.	154-712	1	HOSE (100FX-32"-2750)	
5.	154-315	1	CONNECTOR (100-100FX90)	
6.	154-377	1	CONNECTOR (12S-16090)	
7.	154-456	1	UN BR TEE (120FX-120-120)	
8.	154-441	1	REDUCER (100-120)	
9.	154-372	2	UNION (10S-100FX90)	
10.	154-298	1	CONNECTOR (10S-10090)	
11.	158-361	1	TANDEM HYDRAULIC PUMP	
	500-921		REAR PUMP	
	190-090		SEAL REPAIR KIT	
12.	110-250	4	WORM CLAMP (1-1/4" TO 2-1/8")	
13.	154-367	1	CONNECTOR (120-16S)	
14.	155-148	2	SLIP-ON COUPLER (20S-24H)	
15.	116-094	AR	BULK HOSE (1", SOLD PER 1")	USE 1 @ 21-1/2"
16.	155-161	2	SLIP-ON COUPLER (12S-16H)	
17.	500-294	1	PLUG (10S)	
18.	154-301	2	CONNECTOR (10S-100)	
19.	155-622	1	HYD RELIEF VALVE (2000 PSI)	
	155-630	1	WH RELIEF CARTRIDGE (2000 PSI)	SEE FOOTNOTE 1
20.	154-317	1	RUN TEE (10S-100-100)	

NOT SHOWN:

FOOTNOTES:

- I. REFER TO INSTALLATION DIAGRAM 052-139 FOR REPLACEMENT PROCEDURES.

NOTE:

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

DECAL LOCATION

TP18

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	275-997		DECAL KIT - TP18	INC REF #'S 1 THRU 15
1	274-049	10	ELECTRICAL HAZARD ALERT	
2	274-413	2	TP18 MODEL ID	
3	274-247	AR	ACCENT STRIPE	
4	274-352	6	HIGH VIS. STRIPE (2" X 36")	
5	274-352	2	HIGH VIS. STRIPE (2" X 9.50")	
6	274-352	2	HIGH VIS. STRIPE (2" X 5")	
7	274-352	2	HIGH VIS. STRIPE (2" X 3.5")	
8	273-475	1	WARNING READ OPERATOR MANUAL	
9	275-172	2	DITCH WITCH ID DECAL	
10	270-5127	1	BATTERY	
11	275-245	1	CAUTION BATTERY ACID	
12	275-307	2	DITCH WITCH EMBLEM DECAL	
13	274-465	2	IMPORTANT, PRESSURE AND TORQUE	
14	275-415	1	TILT LOCK DECAL	
15	275-419	1	WARNING, FLAMMABLE	

SLIPPER SPRING

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-047	2	LOCKNUT (3/8-NC)	
2.	105-179	2	BOLT (3/8-NC X 3-1/2")	
3.	105-501	2	COTTER PIN (1/8" X 2")	
4.	105-908	6	LOCKNUT (9/16-NF)	
5.	105-932	2	CASTLE NUT (7/8-NC)	
6.	105-994	16	FLANGE LOCKNUT (5/8-NC)	
7.	205-650	6	SHACKLE BOLT (9/16-NF X 3-3/4")	
8.	205-651	2	EQUALIZER BOLT	
9.	205-654	4	AXLE PLATE	
10.	205-662	4	SLIPPER LEAF SPRING	
	205-874	2	NYLON BUSHING (.584)	
11.	106-776	16	LUGNUT (5/8-NF)	
12.	205-678	8	U-BOLT (5/8-NC X 3-21/32")	INCL REF NO.'S 10-11 & "NOT SHOWN" ITEMS
13.	205-930	2	ELECTRIC AXLE	
	205-933	1	AXLE	
14.	205-685	2	EQUALIZER	

NOT SHOWN:

	105-349	2	CASTLE NUT (1-NF)	
	105-501	2	COTTER PIN (1/8" X 2")	
	106-065	16	LUG BOLT (5/8-NF X 3-1/4")	
	125-269	2	TAPERED BEARING (1.750")	
	125-347	2	BEARING (TAPERED ROLLER)	
	155-845	2	INTERNAL SEAL (2.250")	
	153-273	2	OIL SEAL	
	163-074	1	LEFT ELECTRIC BRAKE	
	163-075	1	RIGHT ELECTRIC BRAKE	
	205-251	2	WHEEL (15 X 8WD W/5)	
	305-483	2	GREASE CAP 5500-7000#	
	106-016	2	SPINDLE WASHER (1.062")	

FOOTNOTES

MISCELLANEOUS

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