



SECTION B

DRIVE
SYSTEM

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

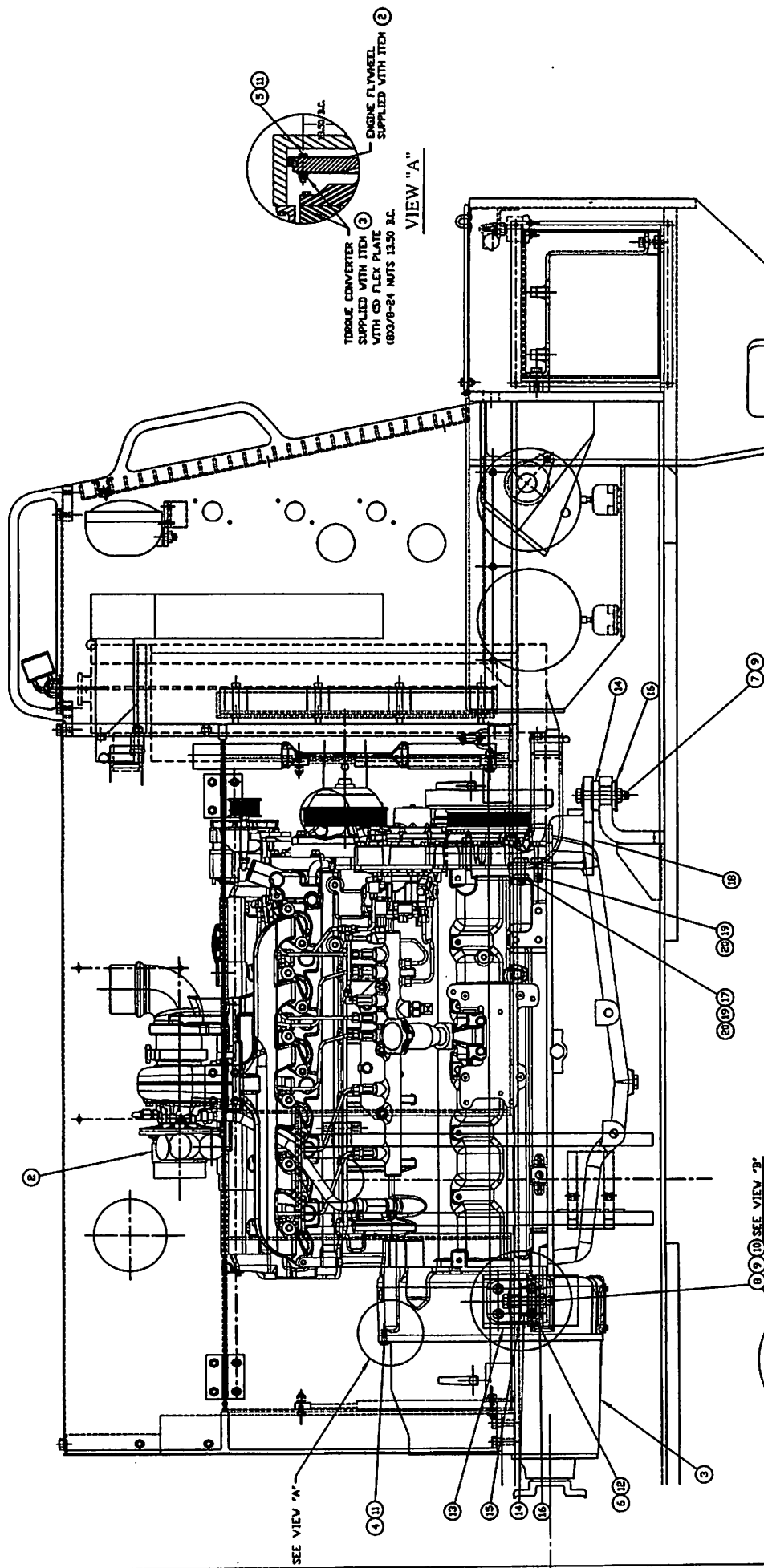
ASSEMBLY NUMBER		DESCRIPTION	
1806704		ENGINE AND TORQUE CONVERTER INST'L	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
2	1806706	CUMMINS QSB6.7 DIESEL ENGINE	1
3	1802040	TORQUE CONVERTER MODEL C-273.5	1
4	1806155	H.H.C.S.	32
5	1805552	H.H.C.S. M-16X2.00X70MM	1
6	1801566	H.H.C.S. 5/8-11 X 3 1/2" LONG	2
7	1801363	ESNA HEX NUT 5/8-11	2
8	1806685	REAR ENGINE MTG. BRACKET	2
9	1802043	M-10 LOCK WASHER	12
10	1803484	M-12 LOCK WASHER	8
11	1803486	H.H.C.S. M*10-1.50 X 30MM LONG	12
12	1803704	H.H.C.S. M*12-1.75 X 60MM LONG	8
13	1803488	CENTER BONDED MOUNT - FOR 5/8" BOLT	3
14	1803489	TAIL WASHER - 2 1/2" OD X 5/8" ID	3
15	1803490	HEAD WASHER - 2 3/4" OD X 5/8" ID	2

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

TEL: (847) 451-1224



SEE VIEW "A"

TORQUE CONVERTER (2)
SUPPLIED WITH ITEM 1
WITH G50 FLEX PLATE
(G50/8-24 NUTS 13.50 R.C.)

ENGINE FLYWHEEL
SUPPLIED WITH ITEM (2)

VIEW "A"

SEE VIEW "B"

1. INSTALLATION

VIEW "B"

1. SWINGMASTER CORPORATION
1415 N. WILSON AVENUE
POMONA, CALIF. 91768
ENGINE AND TORQUE CONVERTER INSTALLATION
WITH J.D. PEGASUS 285-175 DIESEL ENGINE
MODEL 1817CHD
DRAWN BY J.A.C.
DATE: 8-3-68
SCALE: 1/4"

D4-719

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

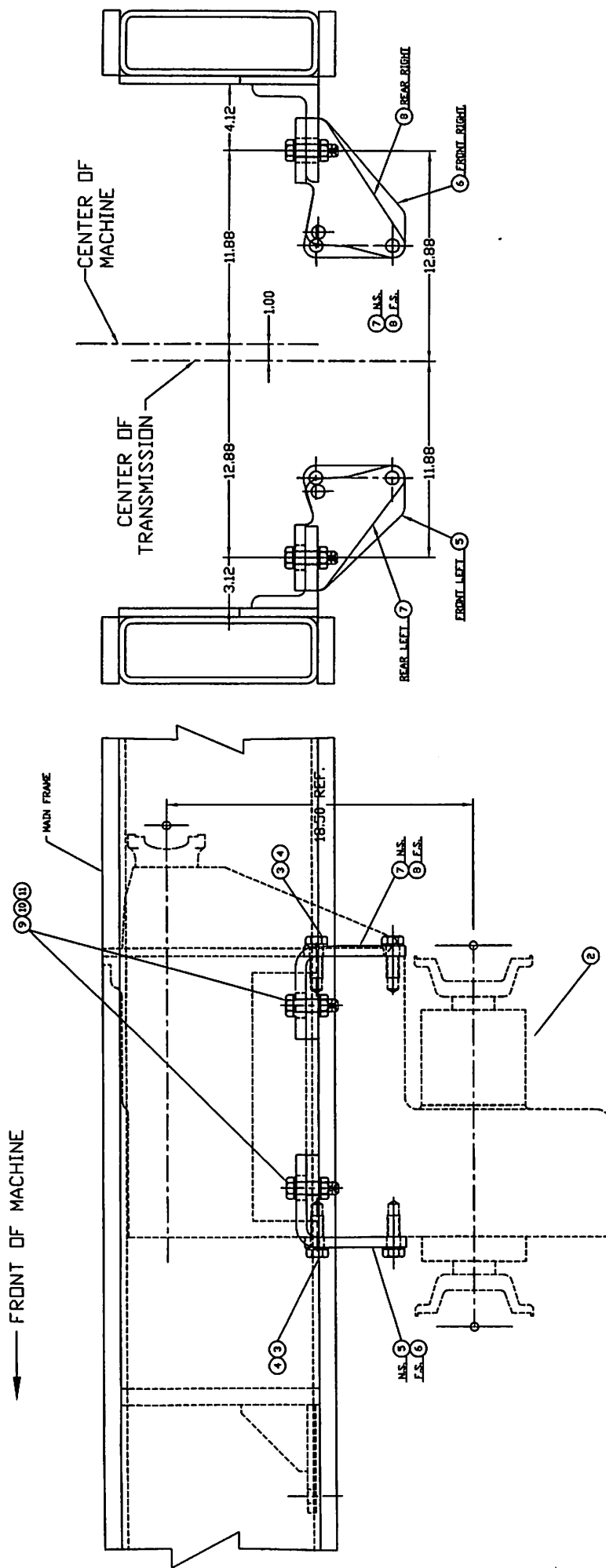
ASSEMBLY NUMBER		DESCRIPTION	
1806832		ENGINE & TORQUE CONVERTER INSTALLATION	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
2	1806833	J.D. PE6068HF285-175 DIESEL ENGINE	1
3	1806679	TORQUE CONVERTER MODEL 273.5	1
4	1806423	H.H.C.S. M-10X1.50X60MM LG.	12
5	1806356	J.H.C.S. 3/8-24 x 1-1/2 LONG	8
6	1800471	H.H.C.S. 1/2-13 X 1 1/2" LONG	8
7	1801708	H.H.C.S. 5/8-11 X 4" LONG	1
8	1801566	H.H.C.S. 5/8-11 X 3 1/2" LONG	2
9	1801363	ESNA HEX NUT 5/8-11	3
10	1800555	5/8" FLAT WASHER	2
11	1800568	3/8" LOCK WASHER	20
12	1800570	1/2" LOCK WASHER	8
13	1806834	REAR ENGINE MTG. BRACKET	2
14	1803488	CENTER BONDED MOUNT - FOR 5/8" BOLT	3
15	1803490	HEAD WASHER - 2 3/4" OD X 5/8" ID	2
16	1803489	TAIL WASHER - 2 1/2" OD X 5/8" ID	3
17	1801567	HEX NUT 5/8-11	2
18	1806807	ENGINE MOUNT BRKT.	1
19	1800023	H.H.C.S. 5/8-11 X 1 3/4" LONG	4
20	1800022	5/8" LOCK WASHER	4

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

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① INSTALLATION

TOLERANCES ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS 1/16" 1/32" 1/64" DECIMALS .0005" .001" .002" .005" .010" .015" .030" .050" .100" .150" .300" .500" 1.000" ANGLES 1° 2° 3° 4° 5° 6° 7° 8° 9° 10° 11° 12° 13° 14° 15° 16° 17° 18° 19° 20° 22° 24° 26° 28° 30° 32° 34° 36° 38° 40° 42° 44° 46° 48° 50° 52° 54° 56° 58° 60° 62° 64° 66° 68° 70° 72° 74° 76° 78° 80° 82° 84° 86° 88° 90° 92° 94° 96° 98° 100° 102° 104° 106° 108° 110° 112° 114° 116° 118° 120° 122° 124° 126° 128° 130° 132° 134° 136° 138° 140° 142° 144° 146° 148° 150° 152° 154° 156° 158° 160° 162° 164° 166° 168° 170° 172° 174° 176° 178° 180°	SWINGMASTER CORPORATION 11415 MICHIGAN AVENUE FRANKLIN PARK, ILLINOIS 60151	
	TRANSMISSION INSTALLATION	
	MODEL 181TCHD DRAWN BY: J.L. DATE: 9-12-08 DESIGNED BY: J.L.	

D1-735

MACHINE	SECTION	1
MODEL SL180-13 SWINGLOADER	DRIVE SYSTEM	

	ASSEMBLY NUMBER	DESCRIPTION	
	1806829	TRANSMISSION INSTALLATION	

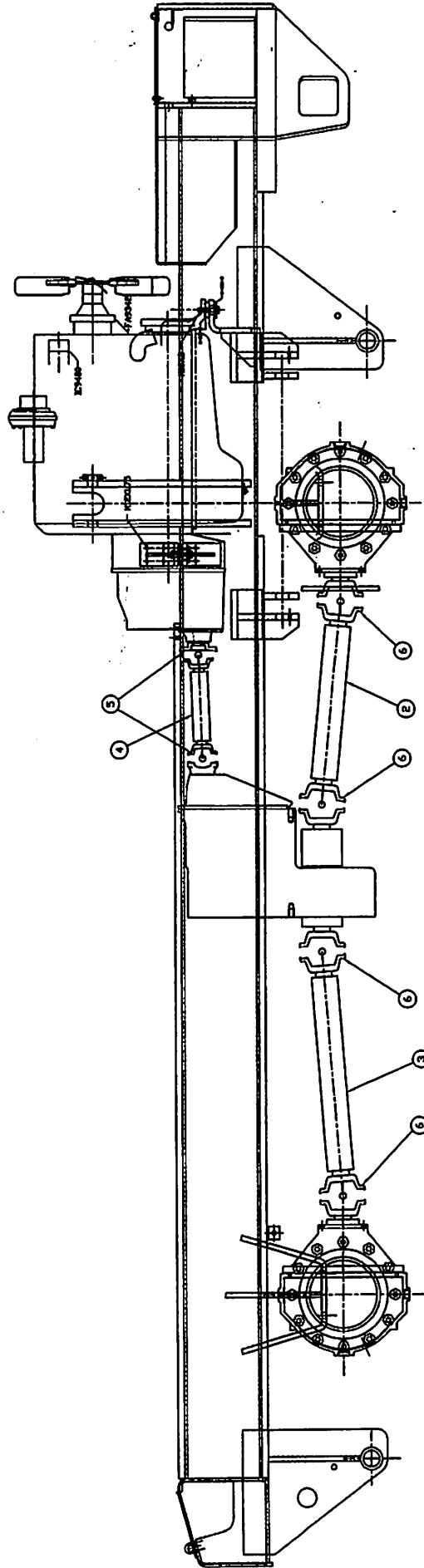
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
002	1802018	TRANSMISSION - R28662	1
003	1800479	H.H.C.S. 3/4-10 X 2" LONG	8
004	1800572	3/4" LOCK WASHER	8
005	1805753	FRONT LEFT TRANS. MOUNTING BRACKET	1
006	1806830	FRONT RIGHT TRANS. MTG. BRKT.	1
007	1805332	REAR LEFT TRANS. MTG. BRACKET	1
008	1806831	REAR RIGHT TRANS. MTG. BRKT.	1
009	1802023	H.H.C.S. 3/4-10 X 3" LONG	4
010	1800522	ESNA HEX NUT 3/4-10	4
011	1800557	3/4" FLAT WASHER	8

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

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① INSTALLATION

SWINGMASTER CORPORATION 1015 N. W. 10th Ave. Fort Lauderdale, Fla. 33304	THIS DRAWING IS FOR THE FOLLOWING PROJECT:
DRIVESHAFT INSTALLATION	MODEL SL180
WITH CLIMAX QSB 6.7 DIESEL ENGINE	DATE 6-10-67
DRAWN BY J.E.	PROJECT NO.
D2-789	SCALE 1/4" = 1'-0"

TOLERANCES
UNLESS OTHERWISE SPECIFIED
FRACTIONS $\pm .005$
DECIMALS $\pm .001$
HOLE DIMENSIONS $\pm .001$
HOLE LOCATIONS $\pm .005$
ANGLES $\pm .5^\circ$
HOLE DRILLING SPECIFICATIONS
H-1 FOR TOLERANCES NOT SPECIFIED
DIMENSIONS ARE IN INCHES
DO NOT SCALE DRAWING

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

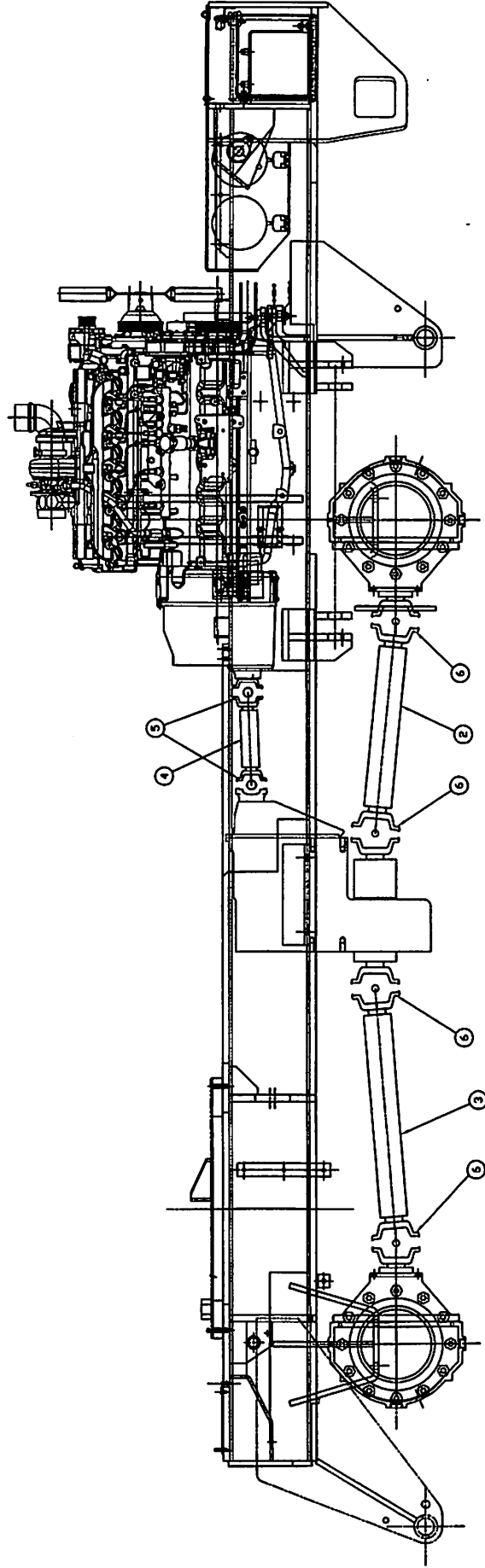
ASSEMBLY NUMBER		DESCRIPTION	
1806733		DRIVESHAFT INSTALLATION	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
2	1800217	DRIVE SHAFT - TRANSMISSION TO AXLE	1
3	1803418	DRIVESHAFT - AXLE TO TRANSMISSION	1
4	1803419	DRIVESHAFT - ENGINE TO TRANSMISSION	1
5	1800458	H.H.C.S. 3/8-24 X 1 3/4" LONG	8
6	1800474	H.H.C.S. 1/2-20 X 2 1/4" LONG	16

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

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① INSTALLATION

SWINGMASTER CORPORATION 1715 WILSON AVENUE FRANKLIN PARK, ILLINOIS 60151	1715 WILSON AVENUE FRANKLIN PARK, ILLINOIS 60151
DRIVE SHAFT INSTALLATION	MODEL 1817CSD
WITH J.D. PERFORMANCE 205-175 DIESEL ENGINE	DATE: 8-27-99
DRAWN BY: J.L.	D3-789

TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 FINISHES
 3 PLACE DECIMALS
 1 PLACE DECIMALS
 1 PLACE DECIMALS
 ANGLES
 SEE DIMENSIONAL SPECIFICATION
 0-1 FOR TOLERANCES NOT SPECIFIED
 DIMENSIONS ARE IN INCHES
 UNLESS OTHERWISE SPECIFIED
 SCALE: 1/2" = 1'-0"

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1806823

DRIVESHAFT INSTALLATION

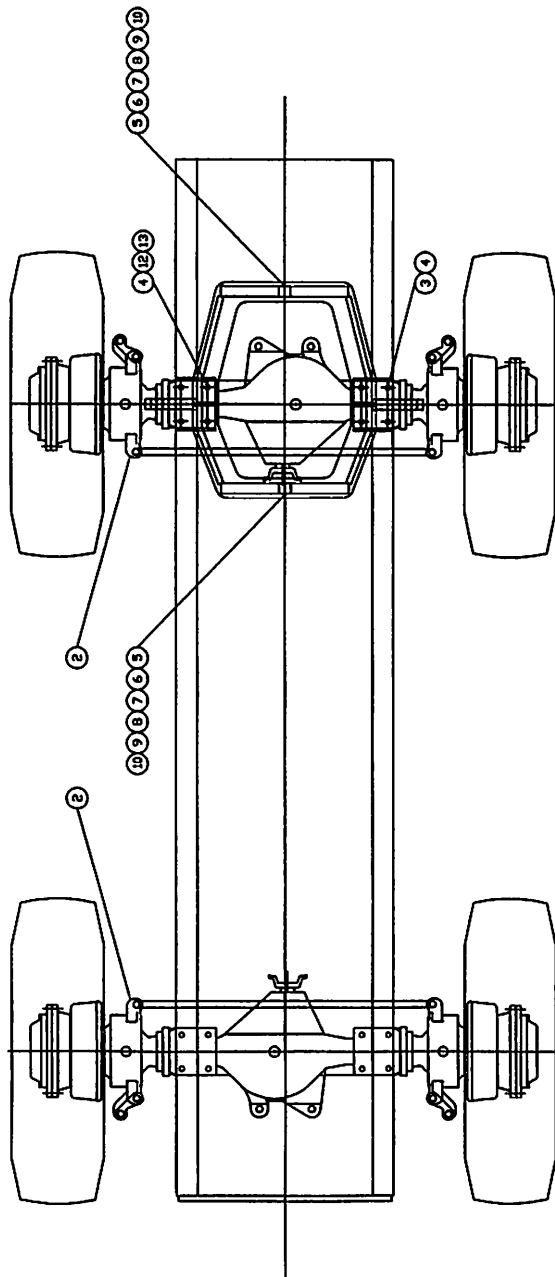
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
2	1800217	DRIVE SHAFT - TRANSMISSION TO AXLE	2
3	1803418	DRIVESHAFT - AXLE TO TRANSMISSION	1
4	1800215	DRIVE SHAFT - TORQUE CONV. TO TRANS.	1
5	1800458	H.H.C.S. 3/8-24 X 1 3/4" LONG	8
6	1800474	H.H.C.S. 1/2-20 X 2 1/4" LONG	16

SWINGMASTER CORPORATION

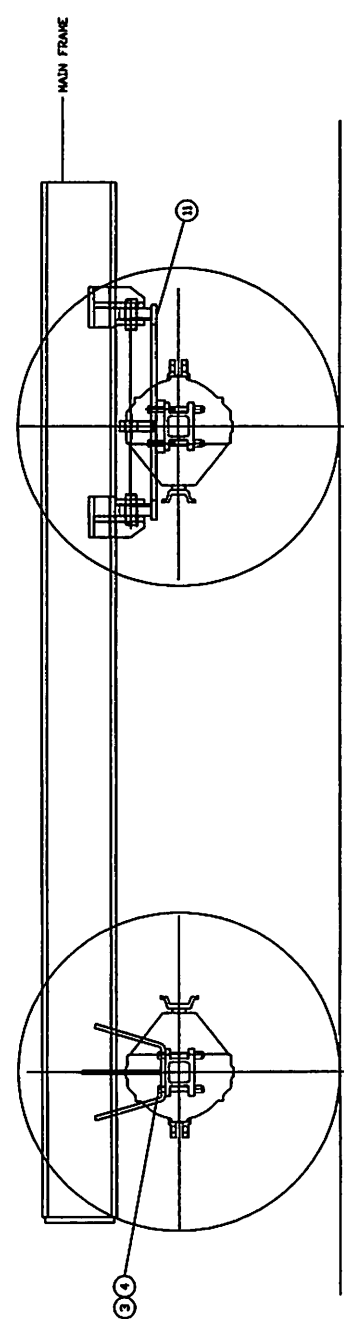
11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

TEL: (847) 451-1224



FRONT OF MACHINE



① INSTALLATION

SWINGMASTER CORPORATION 11415 MELROSE AVENUE FRANKLIN PARK, ILLINOIS 60131	
AXLE INSTALLATION	MODEL SL180-15
TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS 1/16" DECIMALS .001" HOLE DIMENSIONS .0015" SHAFT DIMENSIONS .0015" KEYWAY DIMENSIONS .0015" ALL DIMENSIONS IN INCHES DIMENSIONS IN PARENTHESES ARE FOR REFERENCE ONLY	DRAWN BY: JAL DATE: 7-18-98 DRAWING NO: D-790

MACHINE	SECTION	1
MODEL SL180-13 SWINGLOADER	DRIVE SYSTEM	

	ASSEMBLY NUMBER	DESCRIPTION	
	1805771	AXLE INSTALLATION - DISC BRAKE	

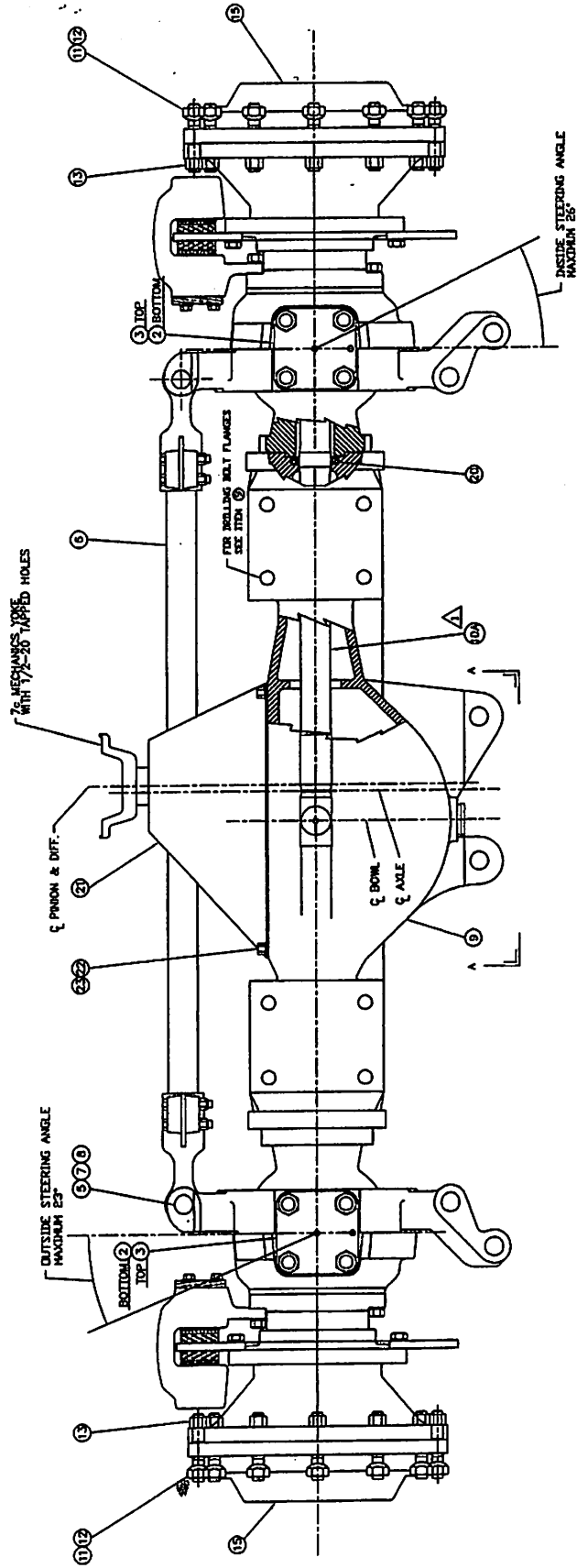
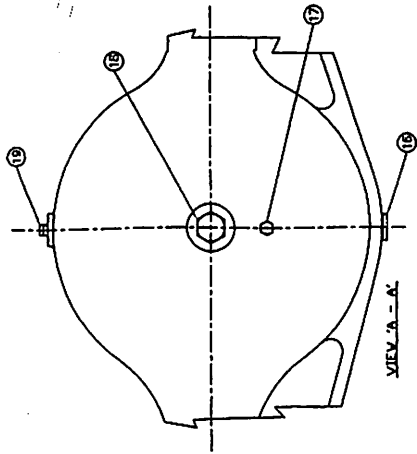
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
002	1805755	AXLE ASSEMBLY - MODEL DB-102	2
003	1800429	H.H.C.S. 7/8-14 X 8 1/2" LONG	12
004	1800536	ESNA THICK HEX NUT 7/8-14	16
005	1800662	90 DEG 1/8" PIPE-M GREASE FITTING	2
006	1800325	SHAFT LOCK PLATE	2
007	1800452	H.H.C.S. 3/8-16 X 1" LONG	4
008	1800568	3/8" LOCK WASHER	4
009	1802015	2.00" DIA. PIN X 5 7/8" LONG	2
010	1802012	2.00" I.D. STEEL BUSHING	2
011	1805772	AXLE CRADLE	1
012	1801148	H.H.C.S. 7/8-14 X 10" LONG	4
013	1800560	7/8" FLAT WASHER	4

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

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SWINGMASTER CORPORATION
 11415 MELROSE AVENUE
 FRANKLIN PARK, ILLINOIS 60131
 AXLE ASSEMBLY
 MODEL 100-102 AXLE
 MODEL 361 & 102
 DRAWN BY: J.K.
 DATE: 6-19-77
 D4-52

TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 3 PLACE DECIMALS ±.001
 2 PLACE DECIMALS ±.005
 1 PLACE DECIMALS ±.010
 ANGLES
 SEE DIMENSIONAL SPECIFICATION
 0-1 FOR TOLERANCES NOT SPECIFIED
 DIMENSIONS ARE IN INCHES
 DO NOT SCALE DRAWING
 SCALE: 1" = 1"

RATIOS	
CARRIER	5.57
PLANET	3.00
TOTAL	16.71

① ASSEMBLY

RECOMMENDED LUBRICANTS (SPEC. MS-1-L-2105-C)
 QUANTITY: 10.5 QUARTS IN DIFFERENTIAL BOWL
 ABOVE OF F. GEAR LUBE 80W-140
 -50 TO +50° F. GEAR LUBE 80W-140
 BELOW -50° F. GEAR LUBE 75W
 ITEM 100 CONVERTS FROM 2007 SERIAL NUMBER.

REV	DATE	DESCRIPTION	ENG. NO.	BY
1	2-9-07	ITEM 100 REPLACE FOR 10	2007001	J.K.

MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER

ASSEMBLY NUMBER	DESCRIPTION
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1805755

AXLE ASSEMBLY - MODEL DB-102

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
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002	1800002	BEARING CAP (STEERING AXLE)	2.00
003	1800003	BEARING CAP (STEERING AXLE)	2.00
005	1800005	PIN	2.00
006	1800006	STEERING TIE ROD ASSEMBLY	1.00
007	1800007	COTTER PIN 1/4 X 2" LONG	2.00
008	1800663	STRAIGHT 1/8" MALE-PIPE GREASE FITTING	2.00
009	1802433	RIBBED AXLE HOUSING WITH CYLINDER LUGS	1.00
10A	1806678	AXLE U-JOINT SHAFT - 361	2.00
010	1800195	AXLE SHAFT	0.00
10A	1806678	AXLE U-JOINT SHAFT - 361	2.00
011	1800011	WHEEL MOUNTING STUD R/H	24.00
012	1800012	CAP NUT 3/4 - 16	24.00
013	1800535	GRIPCO HEX NUT 3/4-16	24.00
015	1805756	AXLE PLANETARY END ASSEMBLY	2.00
016	1800016	1" PIPE PLUG-SOCKET HEAD	1.00
017	1800017	1/2" PIPE PLUG-HEX HEAD	1.00
018	1800018	1 1/4" PIPE PLUG-HEX HEAD	1.00
019	1800019	1/8" PIPE-M RELIEF FITTING 1MIN-5MAX PSI	1.00
020	1804359	OIL SEAL	2.00
021	1804349	DIFFERENTIAL ASSEMBLY	1.00
022	1800022	5/8" LOCK WASHER	20.00
023	1800023	H.H.C.S. 5/8-11 X 1 3/4" LONG	12.00

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

TEL: (847) 451-1224

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

ASSEMBLY
NUMBER

DESCRIPTION

1805756

AXLE PLANETARY END ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
002	1804356	SUN GEAR	1.00
003	1800027	PLANET GEAR	4.00
004	1800028	NEEDLE BEARING - 1-1/4" ID	8.00
005	1800029	1 9/32" BRASS FLAT WASHER	8.00
006	1800030	1 25/32" BRASS FLAT WASHER	1.00
007	1800031	GEAR PIN (PLANET END ASSEMBLY)	4.00
008	1804358	BUSHING	1.00
009	1800033	BEARING CONE 4-1/4" BORE	1.00
010	1800034	BEARING CUP 4-1/4" BORE	1.00
011	1805591	WHEEL HUB	1.00
012	1800036	SHAFT SEAL 5-1/4" SHAFT	1.00
013	1803539	WHEEL SPINDLE	1.00
014	1800038	BEARING CONE 4" BORE	1.00
015	1800039	BEARING CUP 4" BORE	1.00
016	1800040	GASKET - ROUND, 12-HOLE	1.00
017	1800041	PLANET END COVER	1.00
018	1800042	BALL SOCKET	1.00
019	1800043	SHAFT SEAL 5" SHAFT	1.00
020	1800044	BALL BEARING - UNSHIELDED, SINGLE ROW	1.00
021	1804357	OIL SEAL	1.00
022	1800046	PLANET CARRIER	1.00
023	1800047	PLANET GEAR CARRIER PLATE ASSY W/O HOLES	1.00
024	1800048	ANNULUS RING GEAR	1.00
025	1800049	3.525" SNAP RING	1.00
026	1800050	R/H THREAD STUD 7/8-14 X 4" LONG	1.00
027	1800051	1.771" SNAP RING	1.00
028	1800052	SLOTTED HEX NUT 1-14	4.00
029	1800053	H.H.C.S. 3/4-16 X 2 1/4" LONG	5.00
030	1800054	R/H THREAD STUD 7/8-14 X 3 3/4" LONG	4.00
031	1804355	RZEPPA JOINT	0.00
31A	1806674	RZEPPA UNIVERSAL JOINT ASS'T	1.00

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

TEL: (847) 451-1224

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

ASSEMBLY
NUMBER

DESCRIPTION

1805756

AXLE PLANETARY END ASSEMBLY

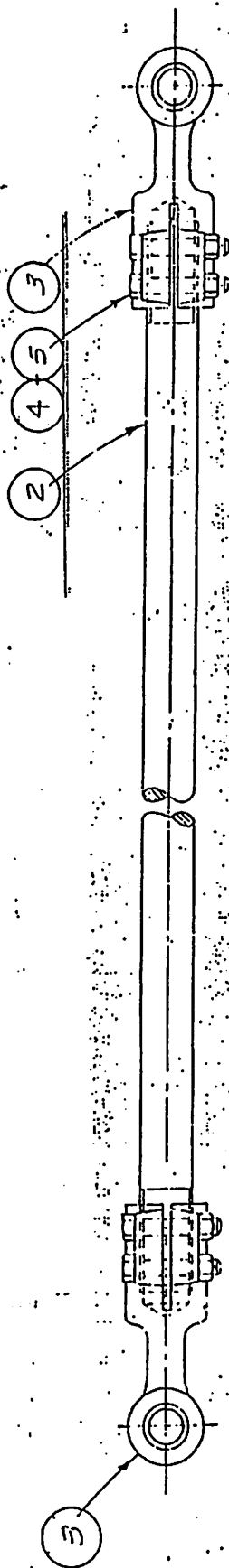
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
032	1800056	1" FLAT WASHER	4.00
033	1800019	1/8" PIPE-M RELIEF FITTING 1MIN-5MAX PSI	1.00
034	1800058	GASKET - ROUND, 12-HOLE	1.00
035	1801924	AXLE BALL JOINT HOUSING ASSEMBLY	1.00
036	1800059	65 DEG 1/8" PIPE-M GREASE FITTING	2.00
037	1805592	SPINDLE MOUNTING SHOULDER BOLT 5/8-18	12.00
038	1800061	H.H.C.S. 5/16-18 X 7/8" LONG	12.00
039	1805595	DISC BRAKE ASSEMBLY(6)	2.00
040	1800022	5/8" LOCK WASHER	8.00
041	1800064	COTTER PIN 3/16 X 2" LONG	4.00
042	1800065	H.H.C.S. 5/8-18 X 3 3/4" LONG	8.00
043	1800066	SOCKET HEAD CAP SCREW 5/8-18 X 3" LG.	4.00
044	1800067	3/8" PIPE PLUG-HEX HEAD	1.00
045	1800068	1/8" PIPE PLUG-HEX HEAD	1.00
046	1800069	SPINDLE LOCK NUT	1.00
047	1800538	THICK HEX NUT 7/8-14	13.00
048	1800071	SEAL, BALL SOCKET	1.00
049	1800072	AXLE BALL SEAL RETAINER	1.00
050	1800073	H.H.C.S. 1/4-28 X 3/4" LONG	8.00
051	1800074	5/16" LOCK WASHER	12.00
052	1800075	BEARING CONE 1-3/4" BORE	2.00
053	1800076	BEARING CUP 1-3/4" BORE	2.00
054	1805593	SPINDLE MOUNTING SHOULDER BOLT 5/8-18	0.00
055	1800078	R/H THREAD STUD 7/8-14 X 3 1/2" LONG	8.00
056	1805594	HEX HEAD CAP SCREW 5/8-18X1-3/4"LG	16.00
057	1800080	SPECIAL 11/16 FLAT WASHER	12.00
058	1800081	SHIM - 0.002" (STRG. AXLE BEARING)	1.00
059	1800082	SHIM - 0.005" (STRG. AXLE BEARING)	1.00
060	1800083	SHIM - 0.010" (STRG. AXLE BEARING)	1.00
061	1800084	BEARING LOCKWASHER	1.00
062	1805636	BRAKE DISC	1.00

SWINGMASTER CORPORATION

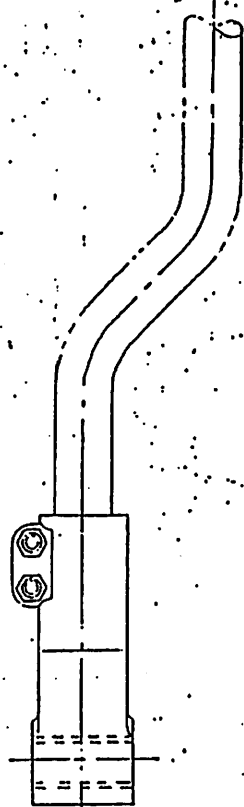
11415 MELROSE AVENUE

TEL: (847) 451-1224

FRANKLIN PARK, ILLINOIS 60131



1 ASSY



MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1800006

STEERING TIE ROD ASSEMBLY

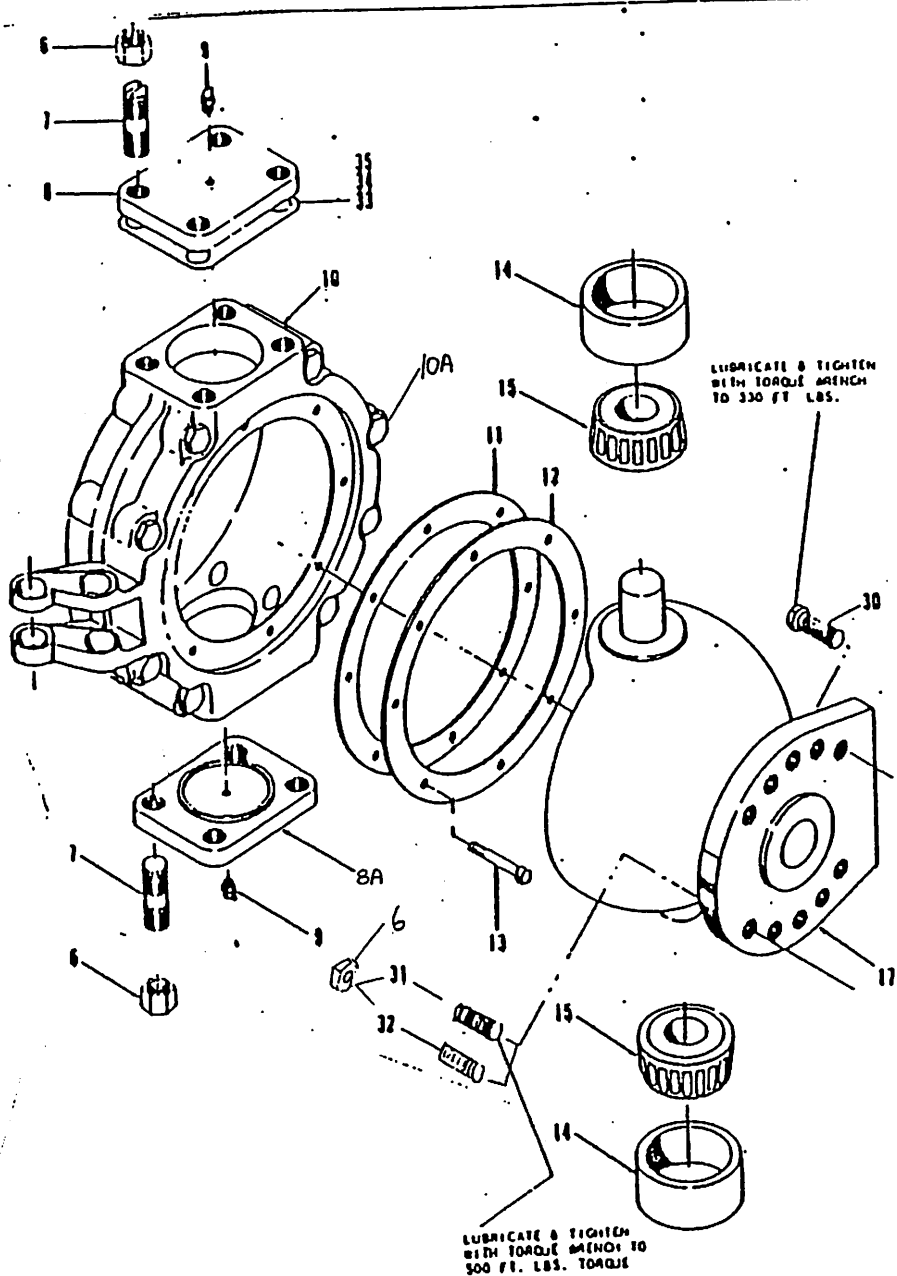
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
2	1800087	TIE ROD	1
3	1800088	TIE ROD END YOKE ASSY (INCLUDES ITEMS 3A+B)	2
3A	1800098	BRONZE BUSHING (NOT SHOWN IN PICTURE)	2
3B	1800099	TIE ROD END (NOT SHOWN IN PICTURE)	2
4	1800089	H.H.C.S. 1/2-20 X 3" LONG	4
5	1800530	ESNA HEX NUT 1/2-20	4

SWINGMASTER CORPORATION

11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY NUMBER		DESCRIPTION	
		BALL SOCKET HOUSING ASSEMBLY (PART OF 1803537 PLANETARY END ASSEMBLY) (PART OF 1804509 PLANETARY END ASSEMBLY)	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
6	1800538	HEX NUT 7/8-14	13
7	1800078	R/H THREAD STUD 7/8-14 X 3 1/2" LONG	8
8	1800003	BEARING CAP - TOP	1
8A	1800002	BEARING CAP - BOTTOM	1
9	1800663	STRAIGHT 1/8" PIPE-M GREASE FITTING	2
10	1801924	AXLE BALL JOINT HOUSING ASSEMBLY	1
10A	1800065	H.H.C.S. 5/8-18 X 3 3/4" LONG	8
10A	1800022	5/8" LOCK WASHER	8
10A	1800066	SOCKET HEAD CAP SCREW 5/8-18 X 3" LONG	4
11	1800071	SEAL, BALL SOCKET	1
12	1800072	AXLE BALL SEAL RETAINER	1
13	1800073	H.H.C.S. 1/4-28 X 3/4" LONG	8
14	1800076	BEARING CUP 1-3/4" BORE	2
15	1800075	BEARING CONE 1-3/4" BORE	2
17	1800042	BALL SOCKET HOUSING	1
30	1800053	H.H.C.S. 3/4-16 X 2 1/4" LONG	5
31	1800050	R/H THD STUD 7/8-14 X 4" LG (CENTER ONLY)	1
32	1800054	R/H THREAD STUD 7/8-14 X 3 3/4" LONG	4
33	1800081	SHIM - 0.002" THICK	A.R.
34	1800082	SHIM - 0.005" THICK	A.R.
35	1800083	SHIM - 0.010" THICK	A.R.

SWINGMASTER CORPORATION

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SWINGMASTER CORPORATION

PARTS BOOK

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

ASSEMBLY NUMBER		DESCRIPTION	
1806674		RZEPPA UNIVERSAL JOINT ASS'Y	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
002	1806675	RZEPPA UNIVERSAL JOINT WELDMENT	1
003	1806676	SHAFT	1
004	1806671	U-JOINT	1
005	1806821	CROSS BEARING	1
006	1806822	RETAINING RING	4

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11415 MELROSE AVENUE

FRANKLIN PARK, ILLINOIS 60131

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Technical drawing of a mechanical assembly, showing two views: a side view (left) and a front view (right).

Side View (Left):

- Component 3 is the main body.
- Dimension: 2.75 (width of the flange).
- Dimension: 17.25 (total length).
- Dimension: 16.00 (length of the main body).

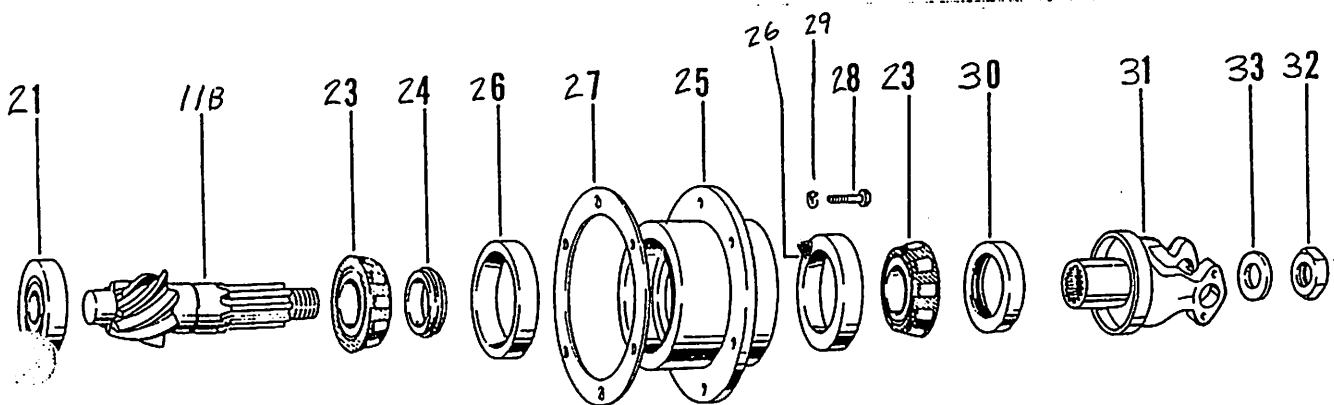
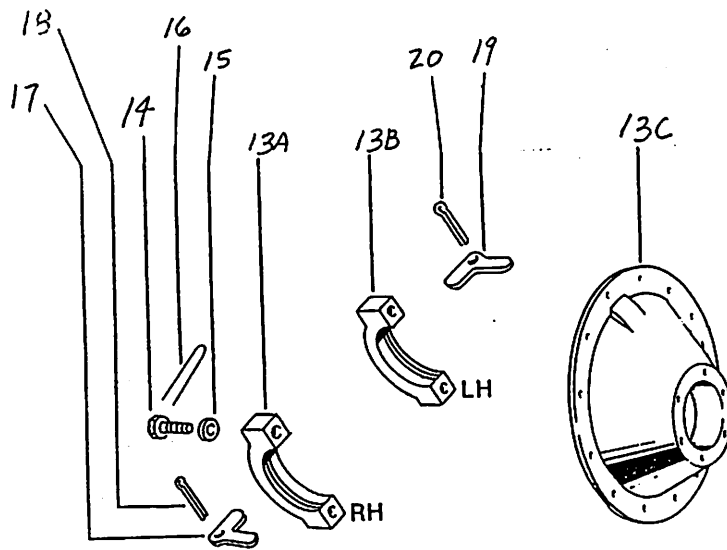
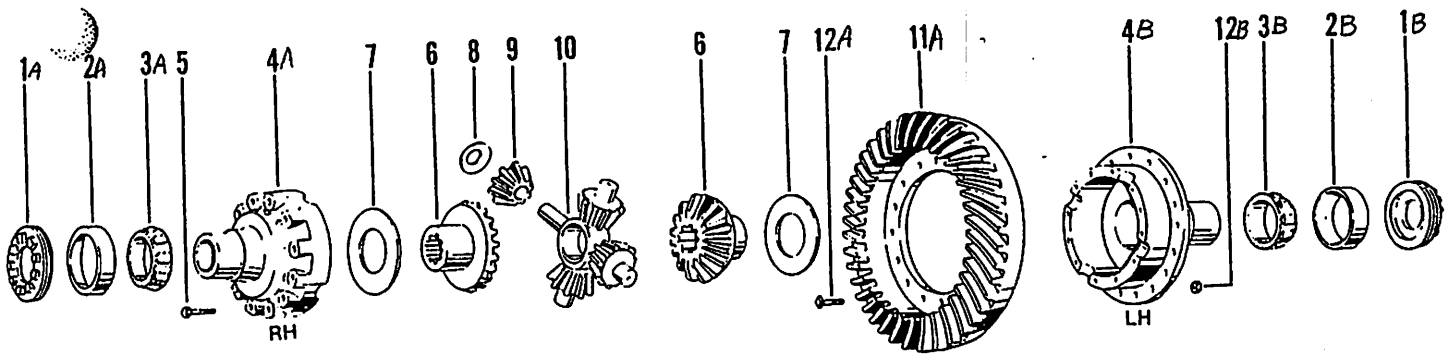
Front View (Right):

- Component 5 is the central circular feature.
- Component 6 is the side flange.
- Component 4 is the base flange.
- Dimension: 5.63 (width of the base flange).
- Dimension: 1/4 (radius of the base flange).
- Dimension: 2.250 (radius of the central feature).
- Dimension: 2.250 (radius of the side flange).
- Dimension: 2.38 (radius of the base flange).
- Dimension: 1.25 (width of the base flange).
- Dimension: 10 (width of the main body).
- Dimension: 0.219 (width of the main body).

Legend:

- 1 ASSEMBLY
- 2 WELDMENT

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS $\pm$ / - 3 PLACE DECIMALS $\pm$ / - 2 PLACE DECIMALS $\pm$ / - 1 PLACE DECIMALS $\pm$ / - ANGLES	SWINGMASTER CORPORATION 730 INDUSTRIAL DRIVE ELMHURST, ILLINOIS 60126 RZEPPA UNIVERSAL JOINT ASSEMBLY FOR MODEL 361 & SL180		
SEE SWINGMASTER SPECIFICATION G-1. FOR TOLERANCES NOT SPECIFIED	<table border="1"> <tr> <td> DRAWN BY: J.K. DATE: 2-5-07 </td> <td> DRAWING NO. C1-21N </td> </tr> </table>	DRAWN BY: J.K. DATE: 2-5-07	DRAWING NO. C1-21N
DRAWN BY: J.K. DATE: 2-5-07	DRAWING NO. C1-21N		



MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

ASSEMBLY
NUMBER

DESCRIPTION

1800021*

DIFFERENTIAL CARRIER - MODEL DS-101 AXLE

1804349**

DIFFERENTIAL CARRIER - MODEL DS-102 AXLE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1A	8700977	RIGHTHAND DIFFERENTIAL BEARING ADJUSTER	1
1B	8700978	LEFTHAND DIFFERENTIAL BEARING ADJUSTER	1
2A	8700979	RIGHTHAND DIFFERENTIAL BEARING CUP	1
2B	8700980	LEFTHAND DIFFERENTIAL BEARING CUP	1
3A	8700981	RIGHTHAND DIFFERENTIAL BEARING CONE	1
3B	8700982	LEFTHAND DIFFERENTIAL BEARING CONE	1
4	8701080	WHEEL DIFFERENTIAL CASE KIT INCLUDES ITEMS 4A, 4B, AND 5	1
5	8701079	DIFFERENTIAL CASE CAP SCREW	12
6a*	8701081	DIFFERENTIAL SIDE GEAR	2
6b**	8703622	DIFFERENTIAL SIDE GEAR	2
7	8701082	SIDE GEAR THRUST WASHER	2
8	8701083	SIDE PINION THRUST WASHER	4
9	8701084	SIDE PINION	4
10	8701085	SPIDER	1
	8701086	WHEEL DIFFERENTIAL SIDE GEAR & PINION KIT INCLUDES ITEMS 6-10	1
11A&B	8702822	RING AND PINION GEAR SET	1
12A	8701089	RING GEAR BOLT	16
12B	8701090	RING GEAR NUT	16

* FOR MACHINE SERIAL NUMBERS 88361L0001 TO 90361L0006

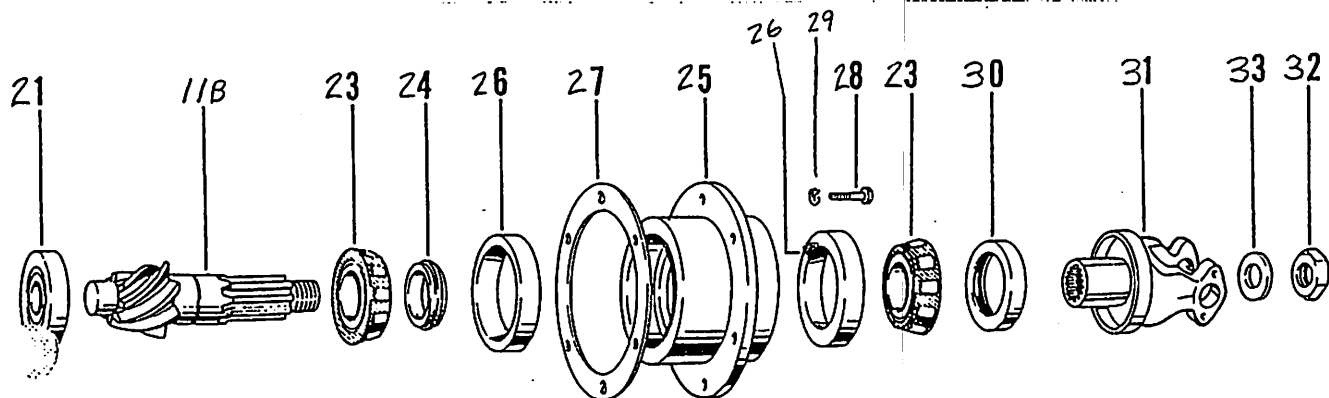
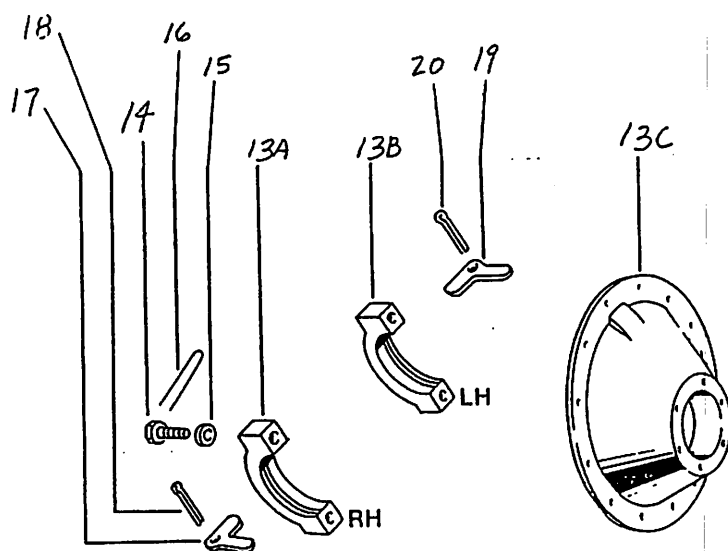
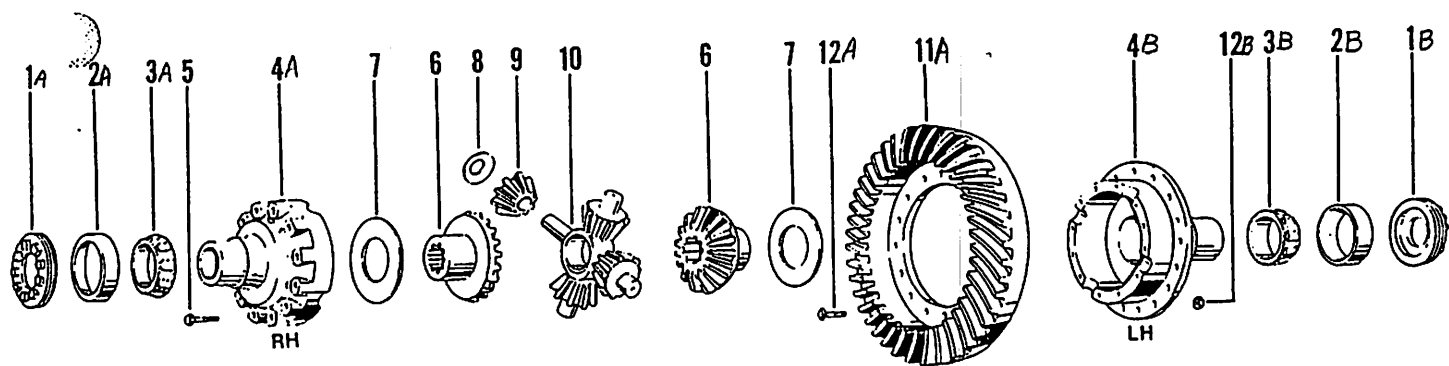
** FOR MACHINE SERIAL NUMBERS 91361L0007 TO CURRENT

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

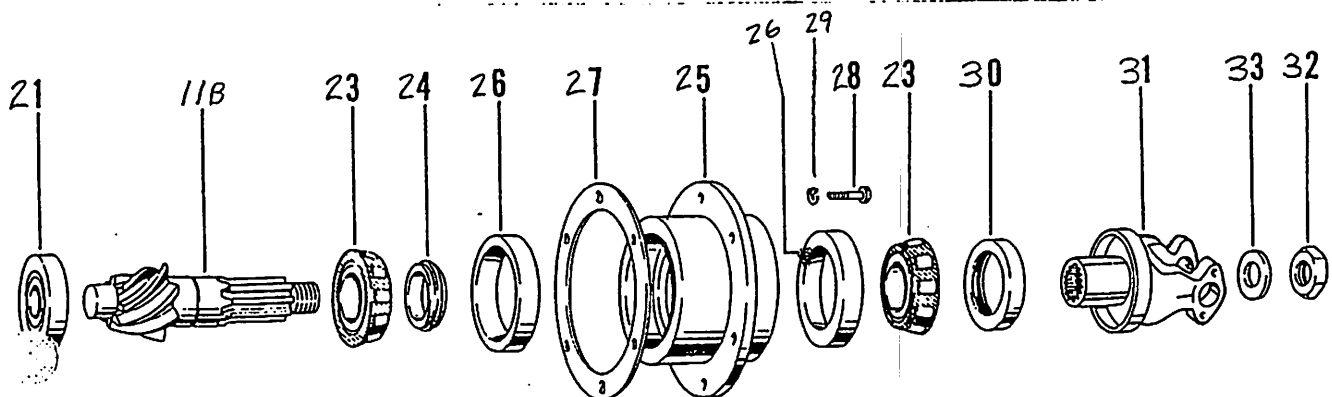
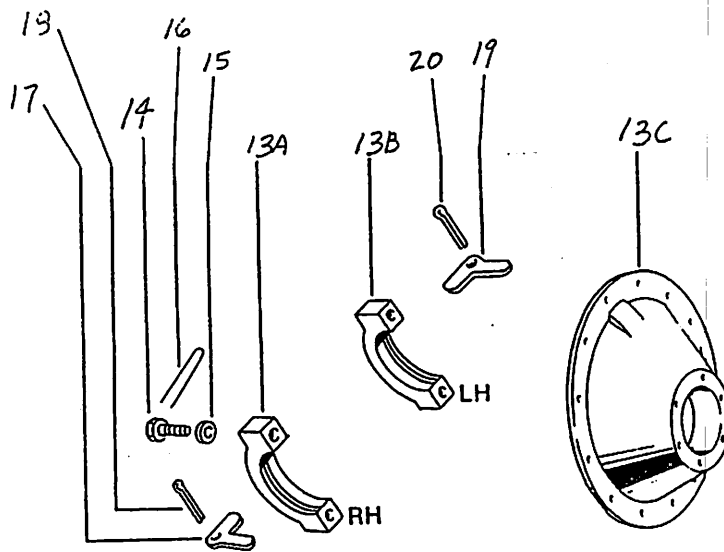
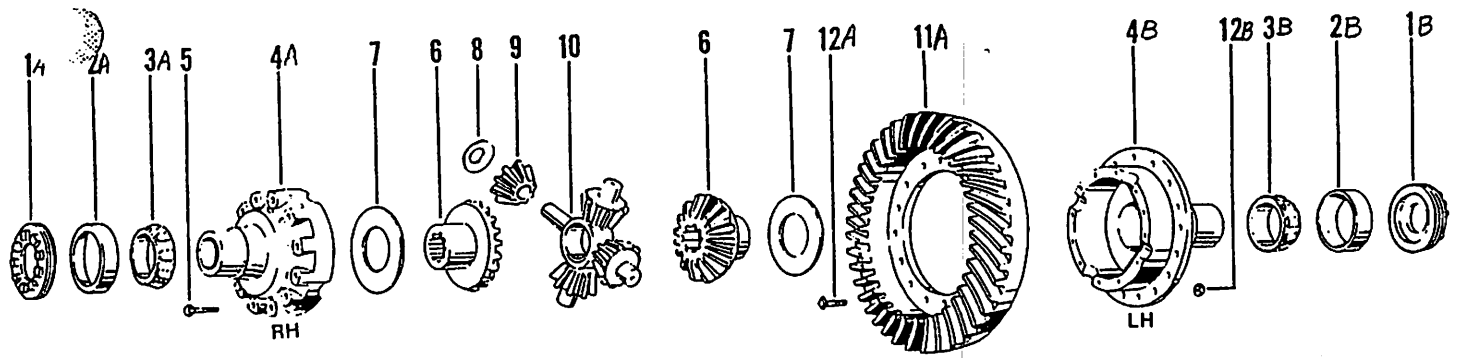
		ASSEMBLY NUMBER	DESCRIPTION	
		1800021*	DIFFERENTIAL CARRIER - MODEL DS-101 AXLE	
		1804349**	DIFFERENTIAL CARRIER - MODEL DS-102 AXLE	
ITEM NO.	PART NUMBER	DESCRIPTION		QTY. USED
13A		RIGHTHAND BEARING CAP		1
13B		LEFTHAND BEARING CAP		1
13C		DIFFERENTIAL CARRIER		1
		ITEM 13A,B,C ARE UNAVAILABLE SEPERATELY		
14	8701095	BEARING CAP SCREW		4
15	8701096	FLAT WASHER		4
16	8701097	LOCKWIRE		4
	8701094	DIFFERENTIAL CARRIER & BEARING CAP ASSY INCLUDES ITEMS 13-16		1
17	8701098	RIGHTHAND BEARING ADJUSTER LOCK		1
18	8701099	RIGHTHAND BEARING ADJUSTER COTTER PIN		1
19	8701100	LEFTHAND BEARING ADJUSTER LOCK		1
20	8701101	LEFTHAND BEARING ADJUSTER COTTER PIN		1
21	8701102	PINION PILOT BEARING		1
23	8701103	PINION BEARING CONE		2
24	8701115	PINION BEARING SPACER		AR
25	8701104	PINION BEARING CAGE		1
26	8701105	PINION BEARING CUP (INNER & OUTER)		2
	8701106	PINION BEARING CAGE AND CUP ASSEMBLY INCLUDES ITEMS 25, 26		1
27	8701116	PINION BEARING CAGE SHIM		AR
28	8701107	BEARING CAGE CAP SCREW		6
29	8701114	LOCKWASHER		6
30	8701108	OIL SEAL & RETAINER		1

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1800021*

DIFFERENTIAL CARRIER - MODEL DS-101 AXLE

1804349**

DIFFERENTIAL CARRIER - MODEL DS-102 AXLE

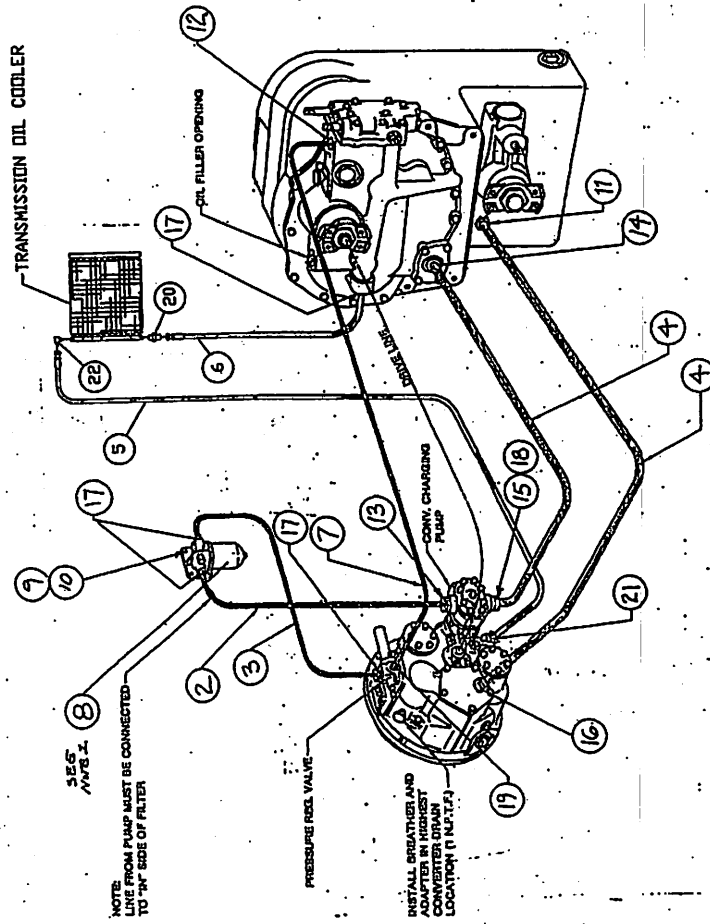
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
31	8701109	INPUT FLANGE & MUDSLINGER ASSEMBLY	1
	8701110	INPUT FLANGE	
	8701111	MUDSLINGER	
32	8701112	PINION NUT	1
33	8701113	FLAT WASHER	1
	8701117	DIFFERENTIAL BEARING KIT INCLUDES ITEMS 2,3,21,23,26,30	1
	8701118	DIFFERENTIAL BASIC OVERHAUL KIT INCLUDES ITEMS 2,3,7,8,21,23,26,27,30,33	1
	8701119	DIFFERENTIAL COMPLETE OVERHAUL KIT INCLUDES ITEMS 2,3,6-10,21,23,26,27,30,32,33	1

SWINGMASTER CORPORATION

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1 INSTALLATION

TOLERANCES	UNLESS OTHERWISE SPECIFIED		
	FRACTIONS +/-		
	3 PLACE DECIMALS +/-		
	2 PLACE DECIMALS +/-		
SWINGMASTER CORPORATION	11415 MELORE AVENUE		
	FRANKLIN PARK, ILLINOIS 60131		
	TRANSMISSION - TORQUE CONVERTER		
	LINES & FITTINGS INSTALLATION		
DRAWN BY: J.K.	DRAWING NO.		
	DATE: 7-15-01		
H4-179			

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

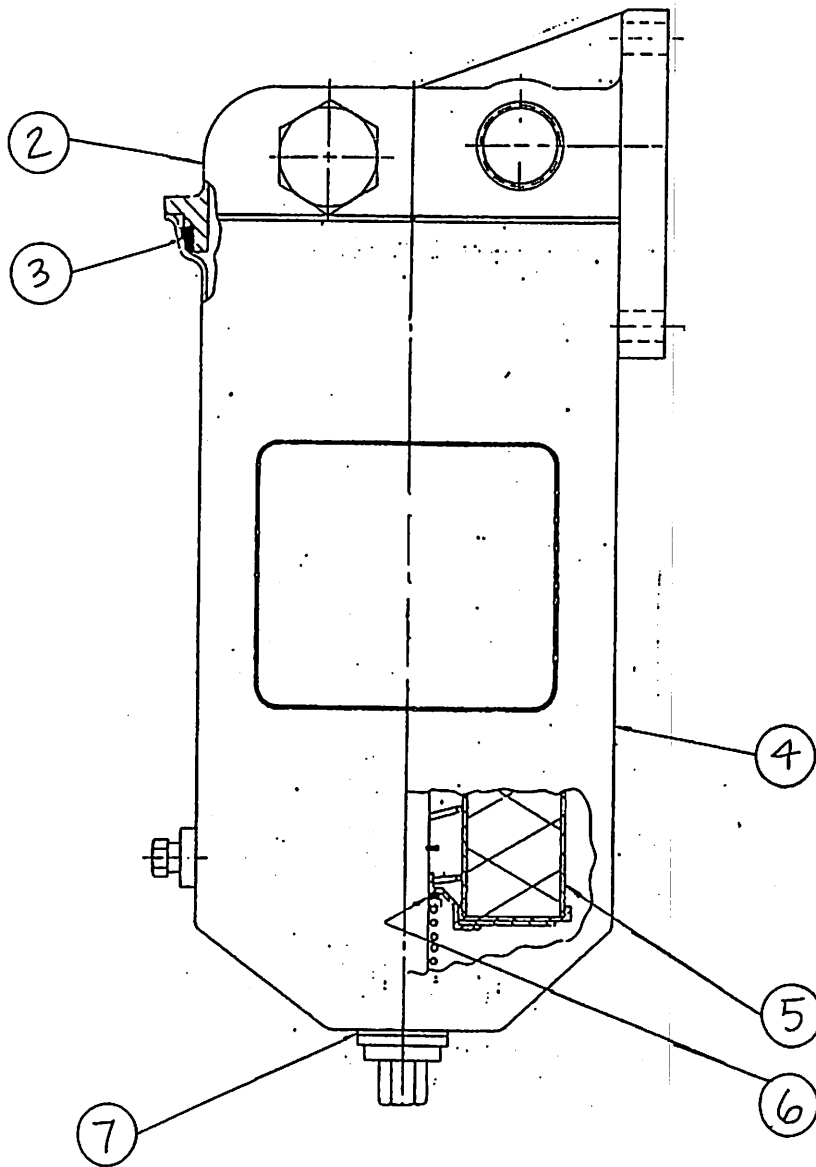
ASSEMBLY NUMBER		DESCRIPTION	
1806680		TRANS./ TORQUE CONVERTER LINES & FITTINGS	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY USED
2	1802822	HOSE ASSEMBLY 1503-12	1
3	1802520	HOSE ASSEMBLY 1503-12	1
4	1802323	HOSE ASSEMBLY 1503-16	2
5	1805742	HOSE ASSEMBLY	1
6	1805743	HOSE ASSEMBLY	1
7	1802523	HOSE ASSEMBLY 1503-8	1
8	1802524	TRANSMISSION OIL FILTER	1
10	1800568	3/8" LOCK WASHER	4
11	1800760	STRAIGHT MALE 1 PIPE TO 1 TUBE	1
12	1800765	STRAIGHT MALE 1/2 O-RING TO 1/2 TUBE	1
13	1802346	STRAIGHT MALE 1 O-RING TO 3/4 TUBE	1
14	1800774	STRAIGHT MALE 1 O-RING TO 1 TUBE	1
15	1802525	STRAIGHT MALE 1 1/4 O-RING TO 1 TUBE	1
16	1800791	90 DEG MALE ELBOW 1 PIPE TP 1 TUBE	1
17	1800801	90 DEG MALE ELBOW 3/4 O-RING TO 3/4 TUBE	4
18	1800856	45 DEG TUBE ELBOW 1 M TO 1 F SWIVEL	1
19	1801034	45 DEG MALE ELBOW 1/2 TUBE TO 1/2 O-RING	1
20	1804959	CONNECTOR	1
21	1800770	STRAIGHT MALE 3/4 O-RING TO 3/4 TUBE	1
22	1800790	90 DEG MALE ELBOW 1 PIPE TO 3/4 TUBE	1

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① ASSEMBLY

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER .

DRIVE SYSTEM

ASSEMBLY NUMBER		DESCRIPTION
-----		-----
1802524		TRANSMISSION OIL FILTER ASSEMBLY
-----		-----

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED

2	8701990	FILTER HEAD & BY-PASS VALVE ASSEMBLY	1
3	8701991	FILTER CAN SEALING RING	1
4	8701992	FILTER CAN ASSEMBLY	1
		INCLUDES ITEMS 6 & 7	
5	8701993	FILTER ELEMENT	1
6	8701994	BOLT SEAL GASKET	1
7	8701995	SEALING WASHER	1

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

TORQUE CONVERTER ASSEMBLY
-----DESCRIPTION

PRESSURE REGULATING VALVE GROUP
CONVERTER HOUSING AND OIL BAFFLE GROUP
13.5" WHEEL GROUP
RING GEAR MOUNTING GROUP
STATOR SUPPORT GROUP
TURBINE SHAFT AND OUTPUT SHAFT GROUP
CHARGING PUMP GROUP
PUMP DRIVE GROUP
PUMP ADAPTER GROUP

PART

NUMBER

DESCRIPTION

8702143 TORQUE CONVERTER GASKET & SEALING KIT

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11415 MELROSE AVENUE

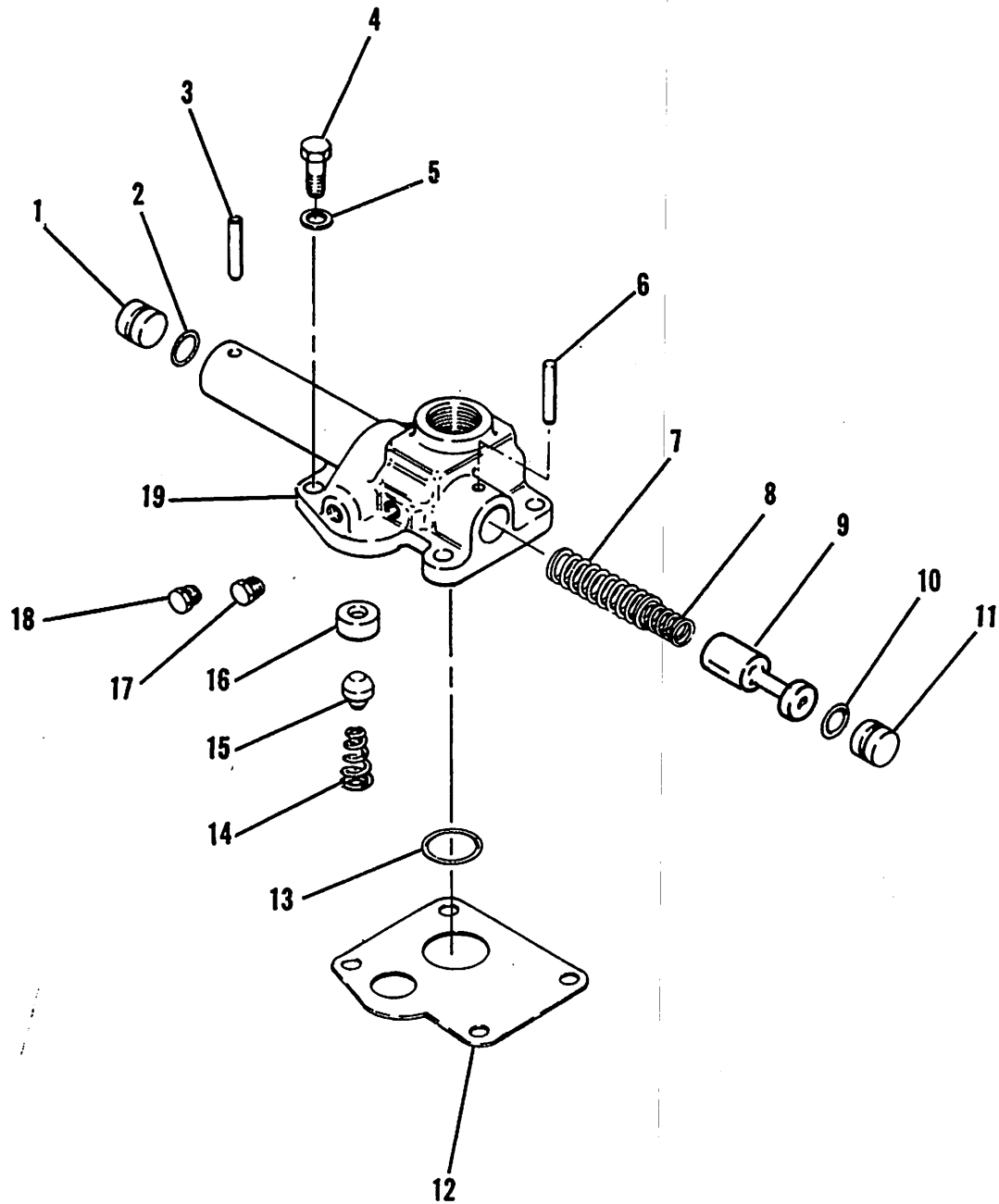
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PRESSURE REGULATING VALVE



MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

		ASSEMBLY NUMBER	DESCRIPTION	
		1802040	TORQUE CONVERTER ASSEMBLY - PRESSURE REGULATING VALVE GROUP	
ITEM NO.	PART NUMBER	DESCRIPTION		QTY. USED
1	8700036	VALVE STOP		1
2	8700135	VALVE STOP O-RING		1
3	8700037	VALVE STOP ROLL PIN		1
4	8700057	CAP SCREW & LOCK WASHER		4
5		SEE ITEM 4		
6	8700037	VALVE STOP ROLL PIN		1
7	8702109	VALVE SPRING - OUTER		1
8	8702110	VALVE SPRING - INNER		1
9	8700043	VALVE PISTON		1
10	8700037	VALVE STOP O-RING		1
11	8700036	VALVE STOP		1
12	8700029	GASKET		1
13	8700030	O-RING		1
14	8700031	VALVE SPRING		1
15	8700032	VALVE PLUNGER		1
16	8700033	VALVE SEAT		1
17	8700034	PIPE PLUG		1
18	8700034	PIPE PLUG		1
19	8702111	REGULATOR VALVE ASSEMBLY		1

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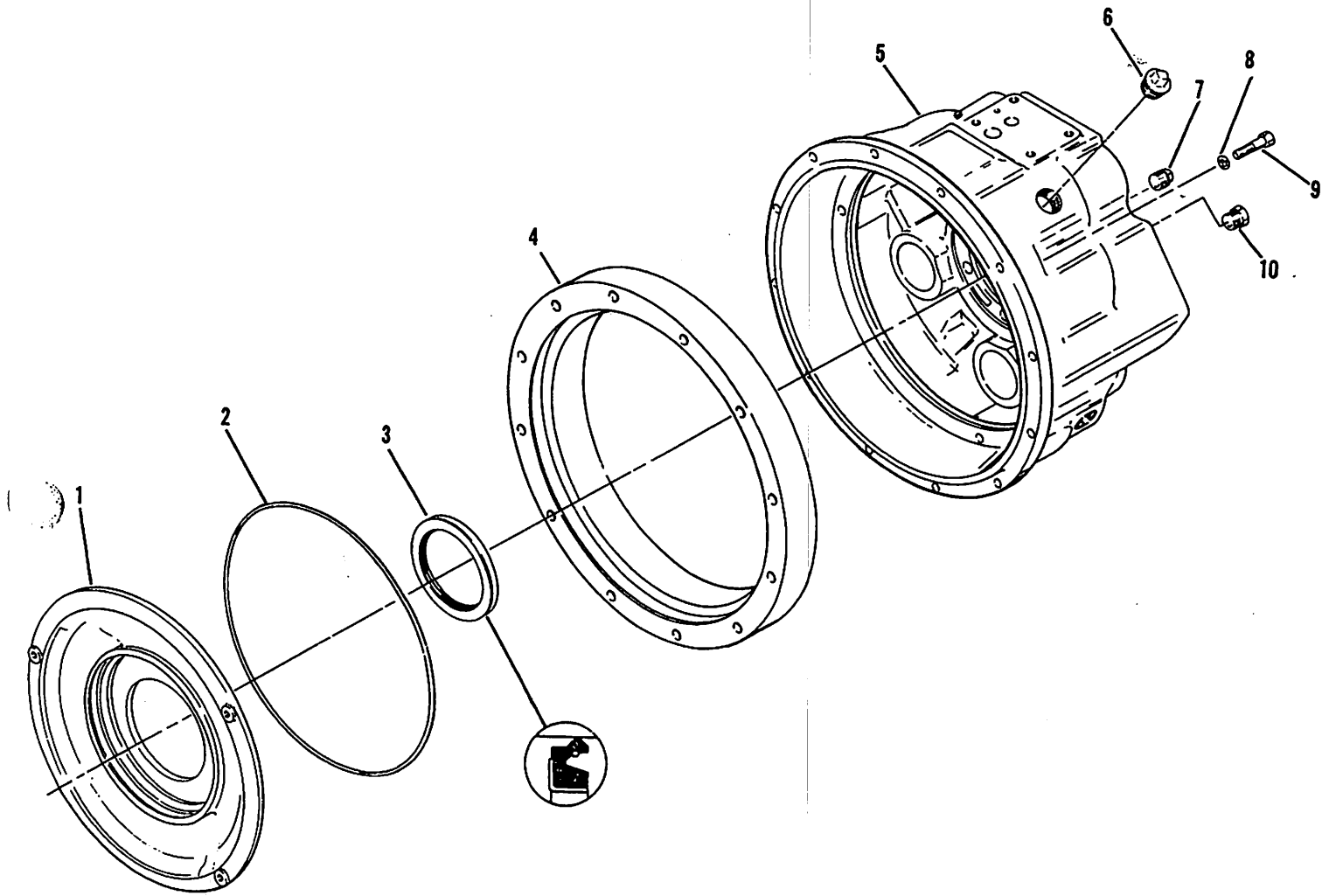
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CONVERTER HOUSING & OIL BAFFLE GROUP



MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802040

TORQUE CONVERTER ASSEMBLY
- CONVERTER HOUSING & OIL BAFFLE GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8702112	OIL BAFFLE - INCLUDES ITEM 3	1
2	8700081	O-RING	1
3	8702113	OIL BAFFLE OIL SEAL	1
4		NOT USED ON THIS MODEL	
5	8700080	CONVERTER HOUSING	1
6	8700058	PIPE PLUG	4
7	8700059	PIPE PLUG	1
8	8700060	LOCK WASHER	3
9	8700061	CAP SCREW	3
10	8700034	PIPE PLUG	1

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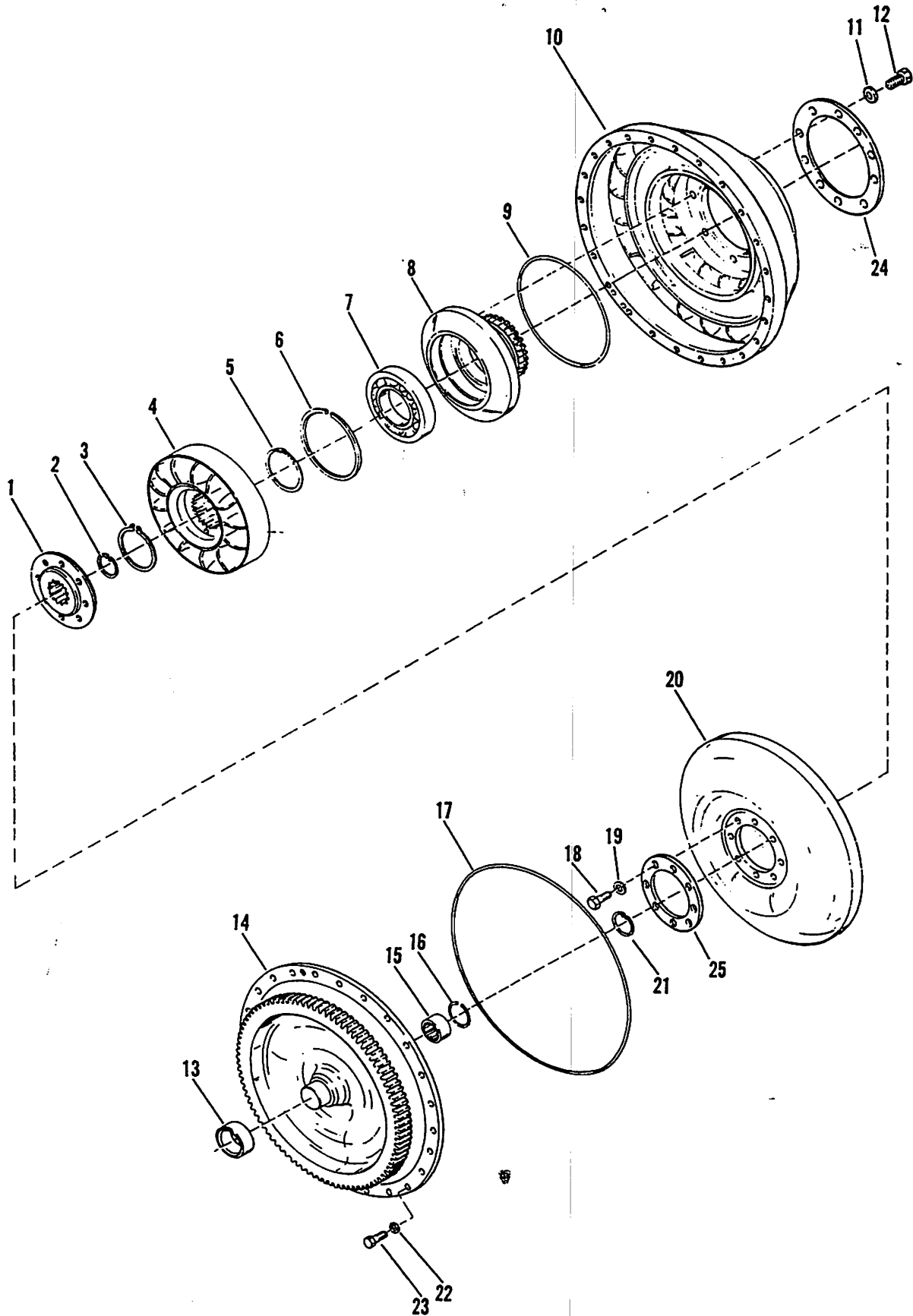
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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY NUMBER		DESCRIPTION	
1802040		TORQUE CONVERTER ASSEMBLY - 13.5" WHEEL GROUP	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8702114	TURBINE HUB	1
2	8702115	TURBINE HUB RETAINING RING	1
3	8702116	REACTION MEMBER SNAP RING	1
4	8702117	REACTION MEMBER	1
5	8702118	REACTION MEMBER SPACER	1
6	8700095	BEARING SNAP RING	1
7	8702119	IMPELLER HUB BEARING	1
8	8702120	IMPELLER HUB	1
9	8702121	IMPELLER HUB O-RING	1
10	8702122	IMPELLER	1
11	8702123	WASHER	8
12	8702124	CAP SCREW	8
13	8702125	IMPELLER COVER SLEEVE	1
14	8702126	IMPELLER COVER	1
15	8702127	IMPELLER COVER BEARING	1
16	8702128	BEARING SNAP RING	1
17	8700112	O-RING	1
18	8700108	CAP SCREW	1
19	8702129	WASHER	8
20	8702130	TURBINE	1
21	8702115	TURBINE HUB RETAINING RING	1
22		SEE ITEM 23	
23	8700057	CAP SCREW & LOCK WASHER	24
24		NOT USED ON THIS MODEL	
25		NOT USED ON THIS MODEL	

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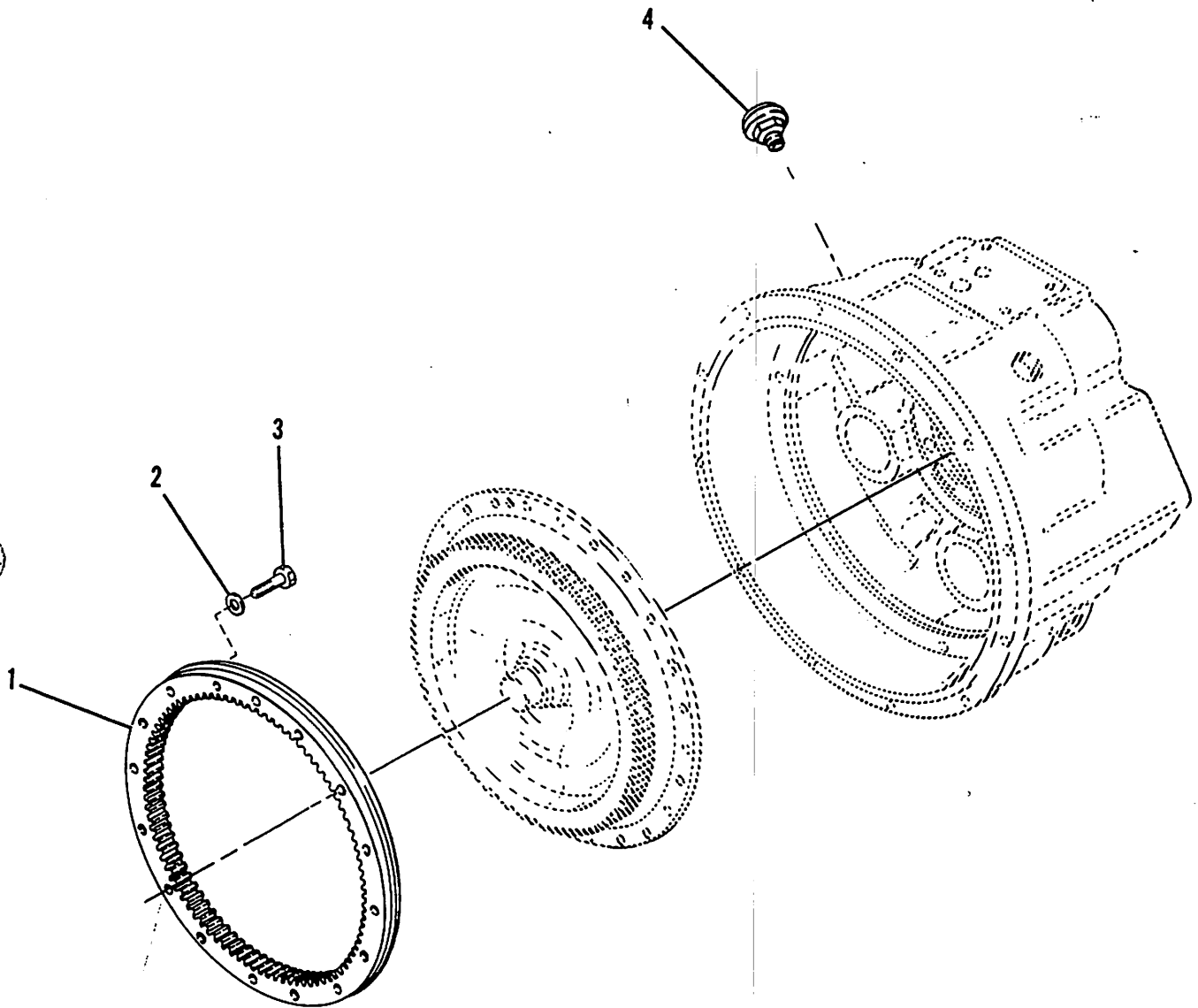
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RING GEAR MOUNTING GROUP



MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802040

TORQUE CONVERTER ASSEMBLY
- RING GEAR MOUNTING GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	clark No	QTY. USED
1	8702133	RING GEAR		1
2		NOT USED ON THIS MODEL	802651	
3	8702135	SELF LOCKING CAP SCREW		32
4	8700026	BREATHING ASSEMBLY		1
5	8702134	BACKING RING - NOT SHOWN IN PICTURE	236936	1
	8702132	RING GEAR KIT - INCLUDES ITEMS 1 & 3		1

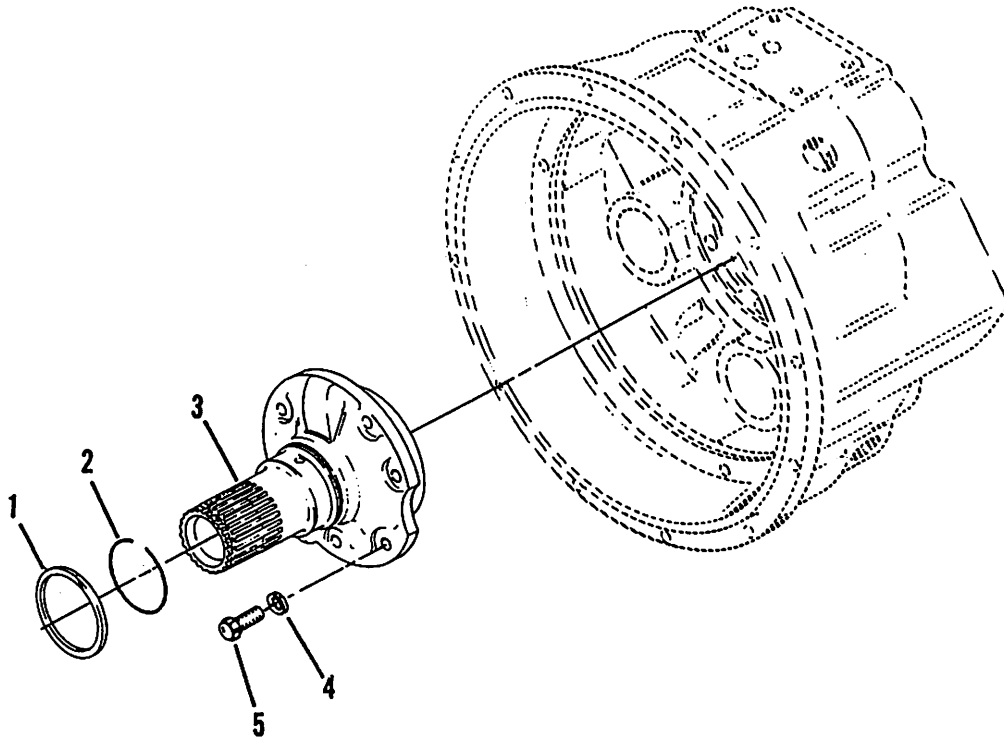
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STATOR SUPPORT GROUP



MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER	DRIVE SYSTEM
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ASSEMBLY NUMBER	DESCRIPTION
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1802040	TORQUE CONVERTER ASSEMBLY - STATOR SUPPORT GROUP
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
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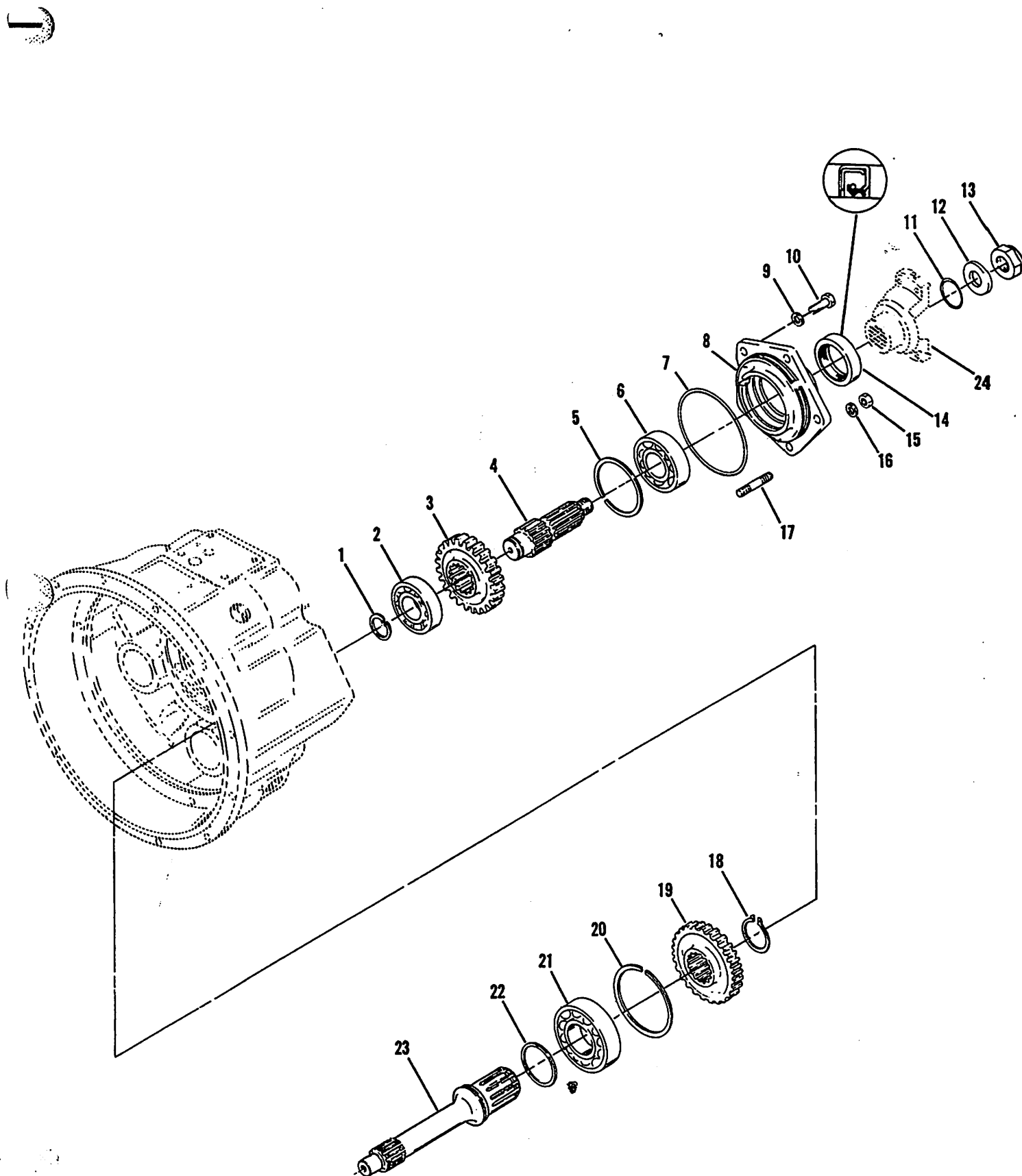
1	8702136	STATOR SUPPORT PISTON RING	1
2	8702137	PISTON RING EXPANDER SPRING	1
3	8702138	STATOR SUPPORT & SLEEVE ASSEMBLY	1
4	8700090	LOCK WASHER	6
5	8700089	CAP SCREW	6

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CLARK**CLARK****TURBINE SHAFT & OUTPUT SHAFT GROUP**

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802040

TORQUE CONVERTER ASSEMBLY
- TURBINE SHAFT & OUTPUT SHAFT GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700078	BEARING SNAP RING	1
2	8700077	OUTPUT SHAFT FRONT BEARING	1
3	8700076	OUTPUT SHAFT GEAR (27 TEETH)	1
4	8700075	OUTPUT SHAFT	1
5	8700325	OUTPUT SHAFT BEARING SNAP RING	1
6	8700073	OUTPUT SHAFT REAR BEARING	1
7	8700072	BEARING RETAINER O-RING	1
8	8700070	BEARING RETAINER	1
9	8700158	BEARING RETAINER SCREW LOCK WASHER	3
10	8700064	BEARING RETAINER SCREW	3
11	8700065	OUTPUT SHAFT O-RING	1
12	8700066	OUTPUT SHAFT WASHER	1
13	8700065	OUTPUT SHAFT NUT	1
14	8700062	BEARING RETAINER OIL SEAL	1
15	8700069	BEARING RETAINER STUD NUT	2
16	8700158	BEARING RETAINER OIL LOCK WASHER	2
17	8700071	BEARING RETAINER STUD	2
18	8700097	GEAR SNAP RING	1
19	8700096	TURBINE SHAFT GEAR	1
20	8700095	TURBINE SHAFT SNAP RING	1
21	8700094	TURBINE SHAFT BEARING	1
22	8700092	TURBINE SHAFT PISTON RING	1
23	8702139	TURBINE SHAFT	1
24	8700068	OUTPUT FLANGE	1

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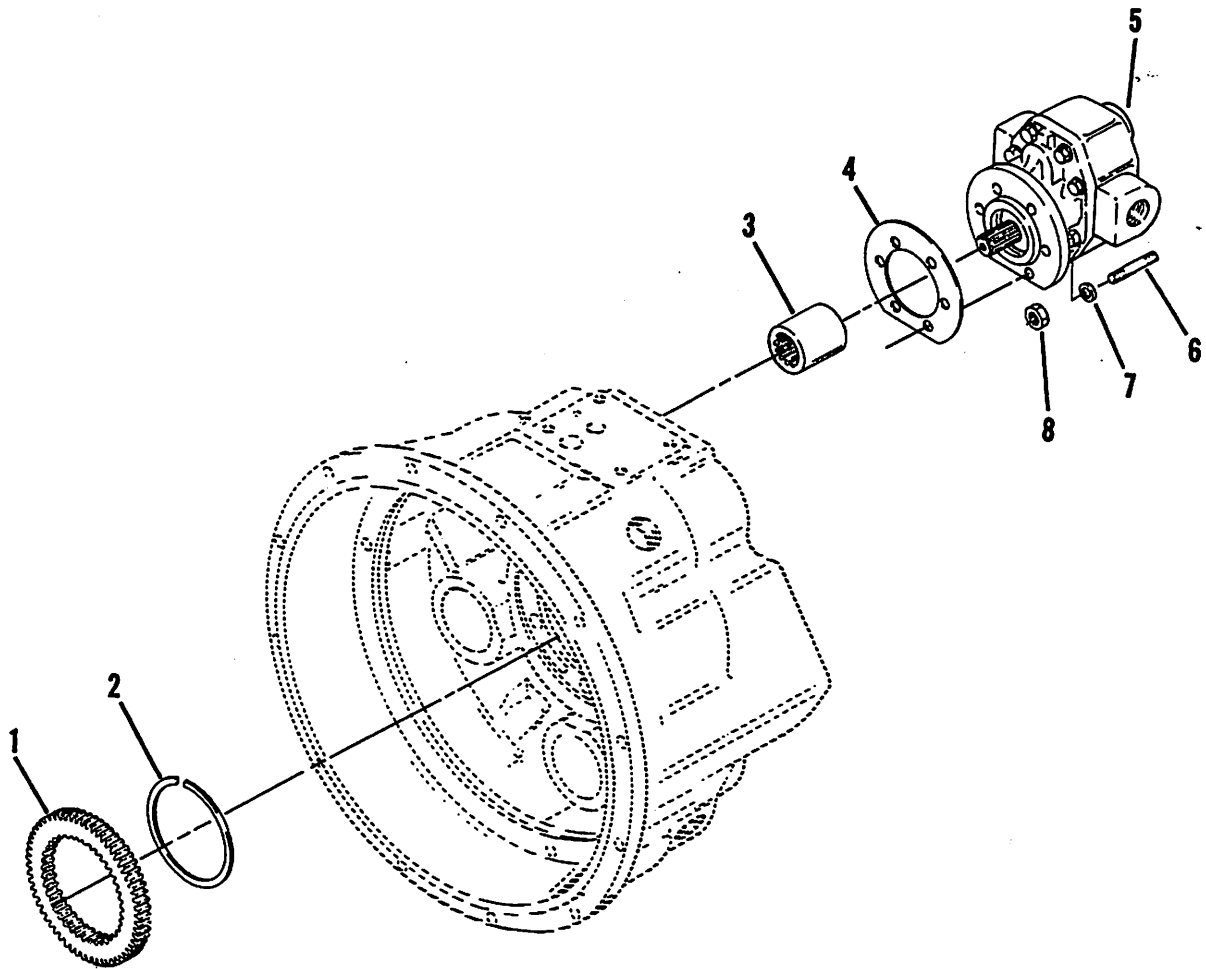
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CHARGING PUMP GROUP



MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY NUMBER		DESCRIPTION	
1802040		TORQUE CONVERTER ASSEMBLY - CHARGING PUMP GROUP	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8702140	IMPELLER HUB GEAR	1
2	8702141	IMPELLER HUB GEAR SNAP RING	1
3	8700054	CHARGING PUMP SLEEVE	1
4	8700055	CHARGING PUMP GASKET	1
5	8702142	CONVERTER CHARGING PUMP	1
6	8700057	SCREW & LOCK WASHER (NOT AS SHOWN)	3
7		PART OF ITEM 6	
8		NOT USED ON THIS MODEL	

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11415 MELROSE AVENUE

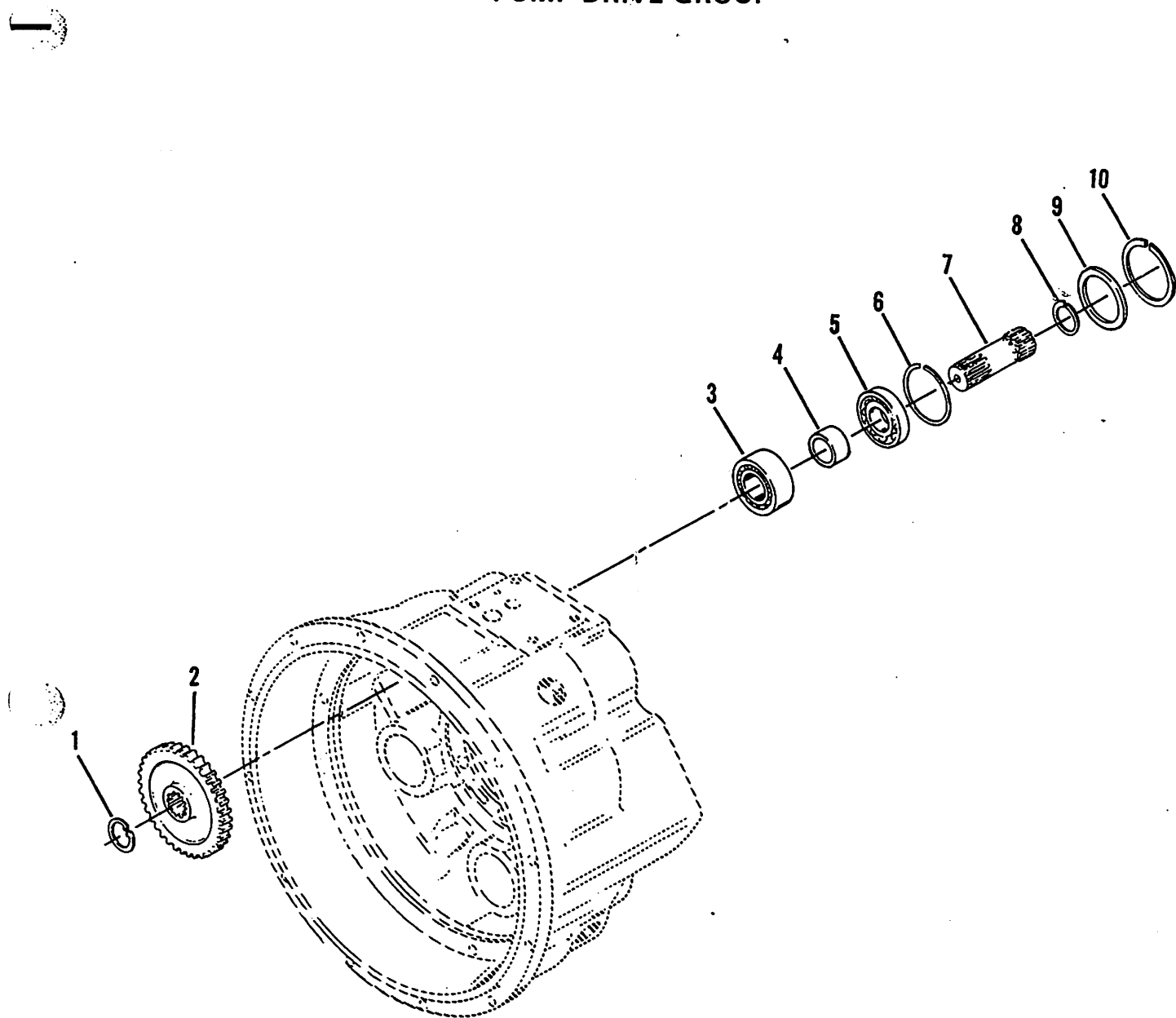
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PUMP DRIVE GROUP



MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802040

TORQUE CONVERTER ASSEMBLY
- PUMP DRIVE GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700024	PUMP DRIVE GEAR SNAP RING	3
2	8700025	PUMP DRIVE GEAR (39 TEETH)	3
3	8700046	PUMP DRIVE SHAFT BEARING	3
4	8700047	PUMP DRIVE SHAFT SPACER	3
5	8700048	PUMP DRIVE SHAFT BEARING	3
6	8700049	PUMP DRIVE SHAFT BEARING SNAP RING	3
7	8700050	PUMP DRIVE SHAFT	3
8	8700051	PUMP DRIVE SHAFT SNAP RING	3
9	8700052	PUMP DRIVE WASHER	3
10	8700053	PUMP SHAFT SNAP RING	3

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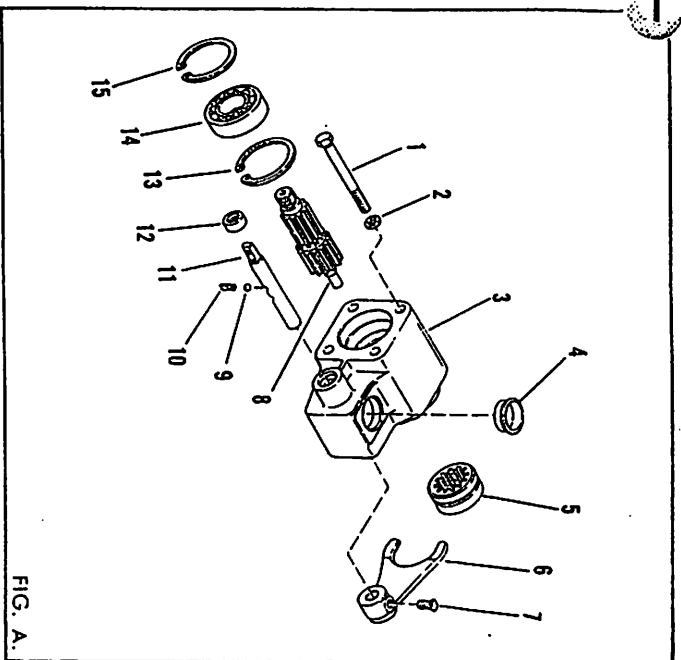


FIG. A.

DISCONNECT ASSEMBLY

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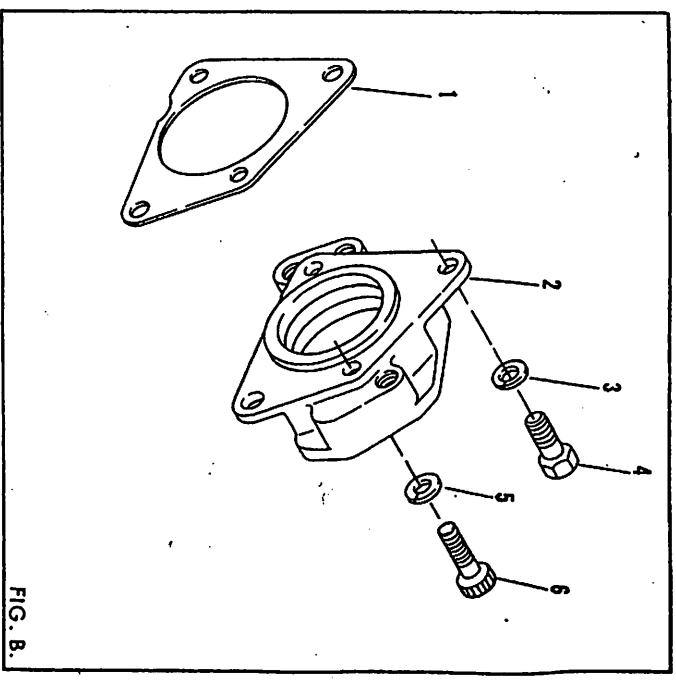


FIG. B.

"X" SIZE TO "B" SIZE PUMP ADAPTOR

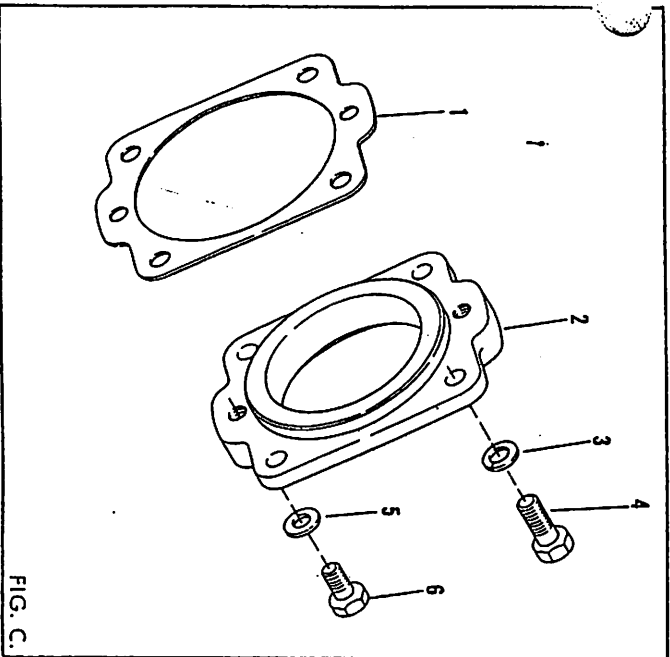


FIG. C.

"B" SIZE PUMP ADAPTOR

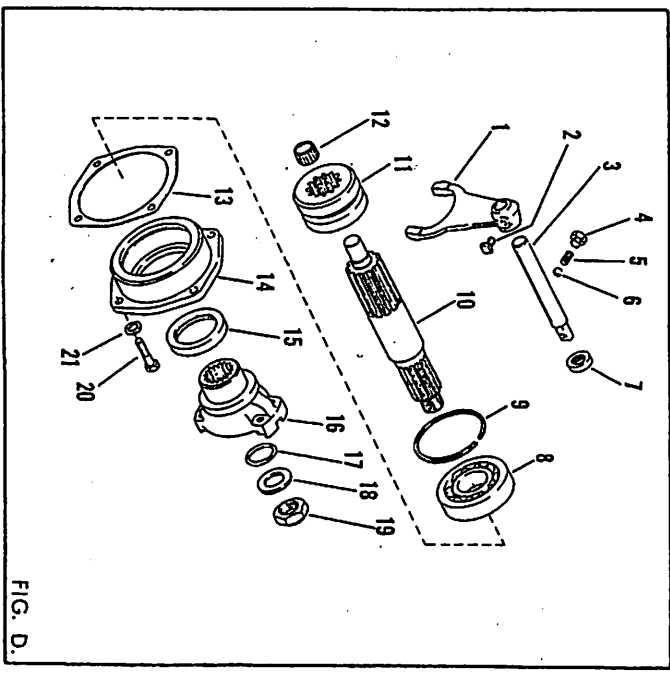


FIG. D.

FORWARD & REVERSE P.T.O.

R & HR 28000 SERIES- VARIOUS OPTIONS

MACHINE	SECTION	1
MODEL SL180-13 SWINGLOADER	DRIVE SYSTEM	

ASSEMBLY
NUMBER

DESCRIPTION

1802040

TORQUE CONVERTER ASSEMBLY
- PUMP ADAPTOR GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
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REFERENCE FIGURE C, FOR THE FOLLOWING ITEMS
FOR USE WITH HYDRAULIC PUMP 1800120
(SEE HYDRAULIC PUMP INSTALLATION IN SECTION 20)

1	8700055	PUMP ADAPTOR GASKET	1
2	8700123	PUMP ADAPTOR	1
3	8700124	PUMP ADAPTOR SCREW LOCK WASHER	3
4	8700125	PUMP ADAPTOR SCREW	3
5		NOT USED ON THIS MODEL	
6		NOT USED ON THIS MODEL	

REFERENCE FIGURE C, FOR THE FOLLOWING ITEMS
FOR USE WITH HYDRAULIC PUMP 1800121
(SEE HYDRAULIC PUMP INSTALLATION IN SECTION 20)

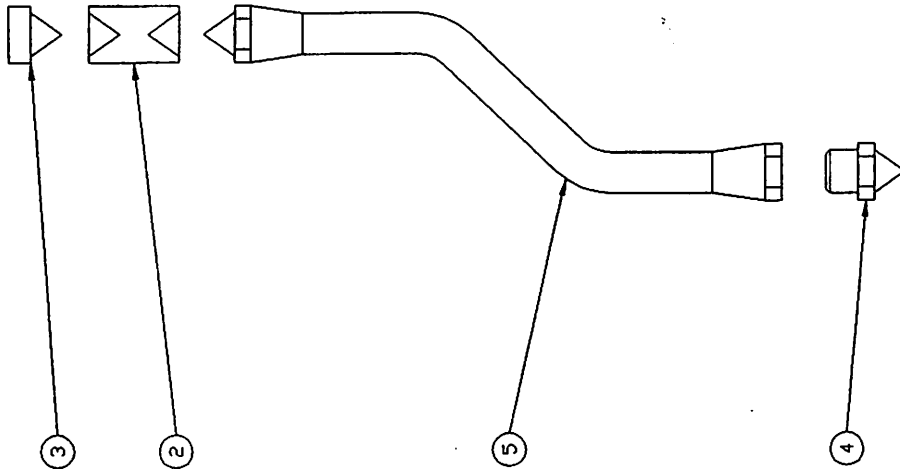
1	8700055	PUMP ADAPTOR GASKET	1
2	8700128	PUMP ADAPTOR (NOT AS SHOWN)	1
3		NOT USED ON THIS MODEL	
4	8700129	PUMP ADAPTOR SCREW	6
5		NOT USED ON THIS MODEL	
6		NOT USED ON THIS MODEL	

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FRANKLIN PARK, ILLINOIS 60131

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① INSTALLATION

TOLERANCES	SWINGMASTER CORPORATION 11415 MELROSE AVENUE FRANKLIN PARK, ILLINOIS 60131 TRANSMISSION OIL FILLER INSTALLATION
UNLESS OTHERWISE SPECIFIED FRACTIONS $\pm$ 1/2 3 PLACE DECIMALS $\pm$ 0.001 2 PLACE DECIMALS $\pm$ 0.01 1 PLACE DECIMALS $\pm$ 0.1 ANGLES	
SEE SWINGMASTER SPECIFICATION G-1 FOR TOLERANCES NOT SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING SCALE: NONE	MODEL RTC-15 & SL180 DRAWN BY: J.K. DATE: 7-20-98

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1803835

TRANSMISSION OIL FILLER INSTALLATION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
002	1800295	STEEL COUPLING - 3/4" x 1-5/8" LG.	1.00
003	1802671	3/4" PIPE PLUG - HEX HEAD	1.00
004	1803836	45 DEGREE MALE ELBOW 1" PIPE TO 3/4 TUBE	1.00
005	1803832	HOSE ASSEMBLY 2556-12	1.00

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

TRANSMISSION ASSEMBLY
-----DESCRIPTION

3 SPEED REMOTE CASE GROUP
TRANSMISSION CASE AND REAR GROUP
REVERSE AND HIGH SHAFT GROUP
FORWARD AND SECOND SHAFT GROUP
LOW SPEED SHAFT GROUP
IDLER SHAFT GROUP
OUTPUT SHAFT GROUP
HIGH AND LOW RANGE SHIFT CONTROL GROUP
SOLENOID CONTROL VALVE ASSEMBLY
DRIVE FLANGE

PART

NUMBER DESCRIPTION

8702307 FRONT COVER & TRANSMISSION GASKET & SEALING KIT

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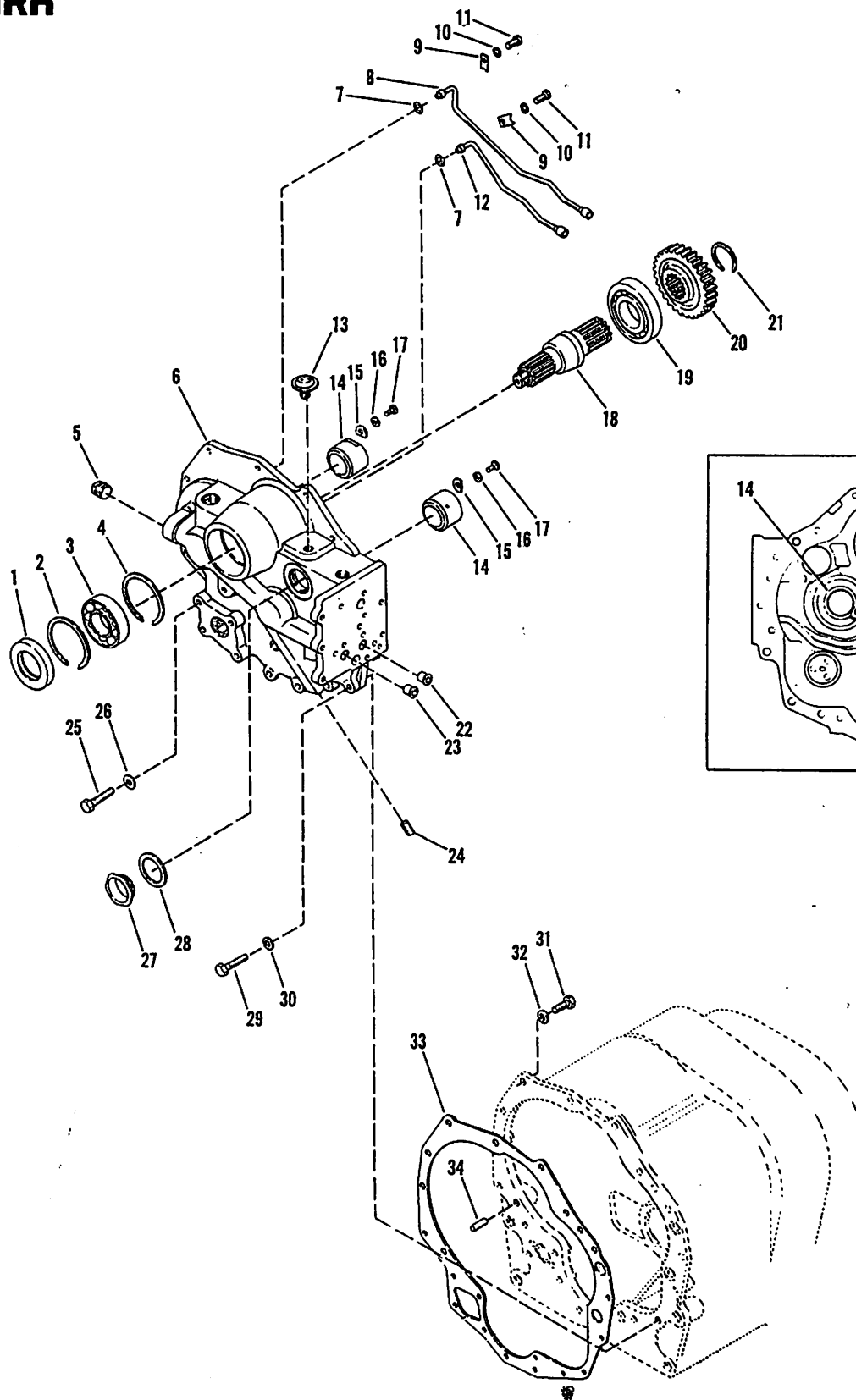
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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- 3 SPEED REMOTE CASE GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700166	INPUT FLANGE OIL SEAL	1
2	8700325	INPUT SHAFT FRONT BRG. RET. RING	1
3	8702144	INPUT SHAFT FRONT BEARING	1
4	8700325	INPUT SHAFT FRONT BRG. RET. RING	1
5	8700058	PIPE PLUG	1
6	8702145	FRONT COVER & TUBE ASSEMBLY INCLUDES ITEMS 7-12,14-17,22,23	1
7	8702146	O-RING	2
8	8702147	3RD SPEED TUBE ASSEMBLY	1
9	8702148	TUBE CLIP	2
10	8700155	TUBE CLIP SCREW LOCK WASHER	2
11	8700154	TUBE CLIP SCREW	2
12	8702149	REVERSE TUBE ASSEMBLY	1
13	8700169	BREATHER	1
14	8702150	FRONT COVER SLEEVE	2
15	8702151	FRONT COVER SLEEVE LOCK	2
16	8700155	SLEEVE LOCK SCREW LOCK WASHER	2
17	8700154	SLEEVE LOCK SCREW	2
18	8702152	INPUT SHAFT	1
19	8702153	INPUT SHAFT REAR BEARING	1
20	8702154	INPUT SHAFT GEAR	1
21	8700097	INPUT SHAFT GEAR RETAINER RING	1
22	8700134	TUBE SLEEVE	1
23	8700134	TUBE SLEEVE	1
24	8700148	PIPE PLUG	1
25	8702155	COVER TO CASE SCREW	4

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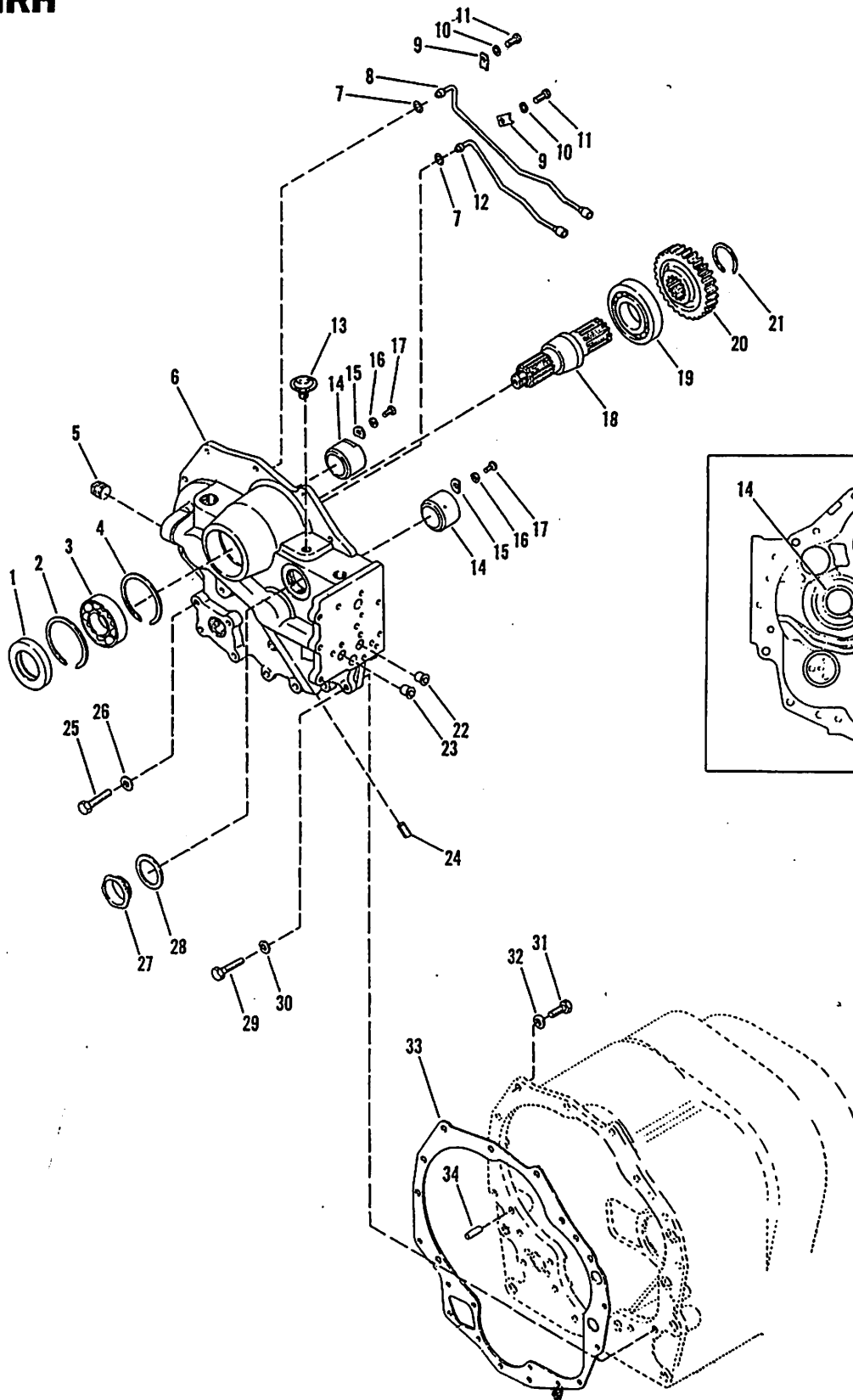
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MACHINE SECTION 1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBERDESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- 3 SPEED REMOTE CASE GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
26	8700158	COVER TO CASE SCREW LOCK WASHER	4
27	8700184	FRONT COVER PLUG	1
28	8700186	FRONT COVER PLUG GASKET	1
29	8702156	COVER TO CASE SCREW	4
30	8700158	COVER TO CASE SCREW LOCK WASHER	4
31	8700064	COVER TO CASE SCREW	10
32	8700158	COVER TO CASE SCREW LOCK WASHER	10
33	8702157	FRONT COVER GASKET	1
34	8700189	FRONT COVER DOWEL PIN	2

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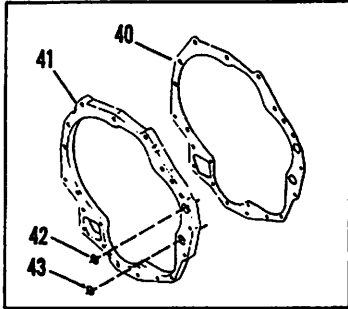
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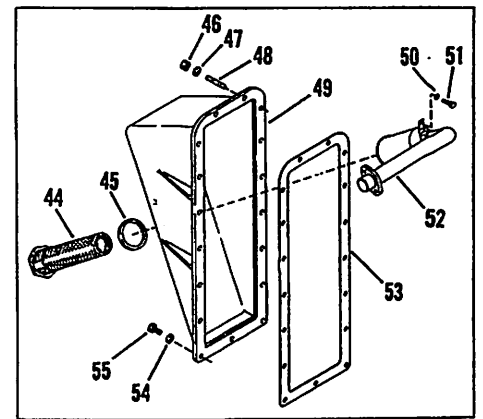
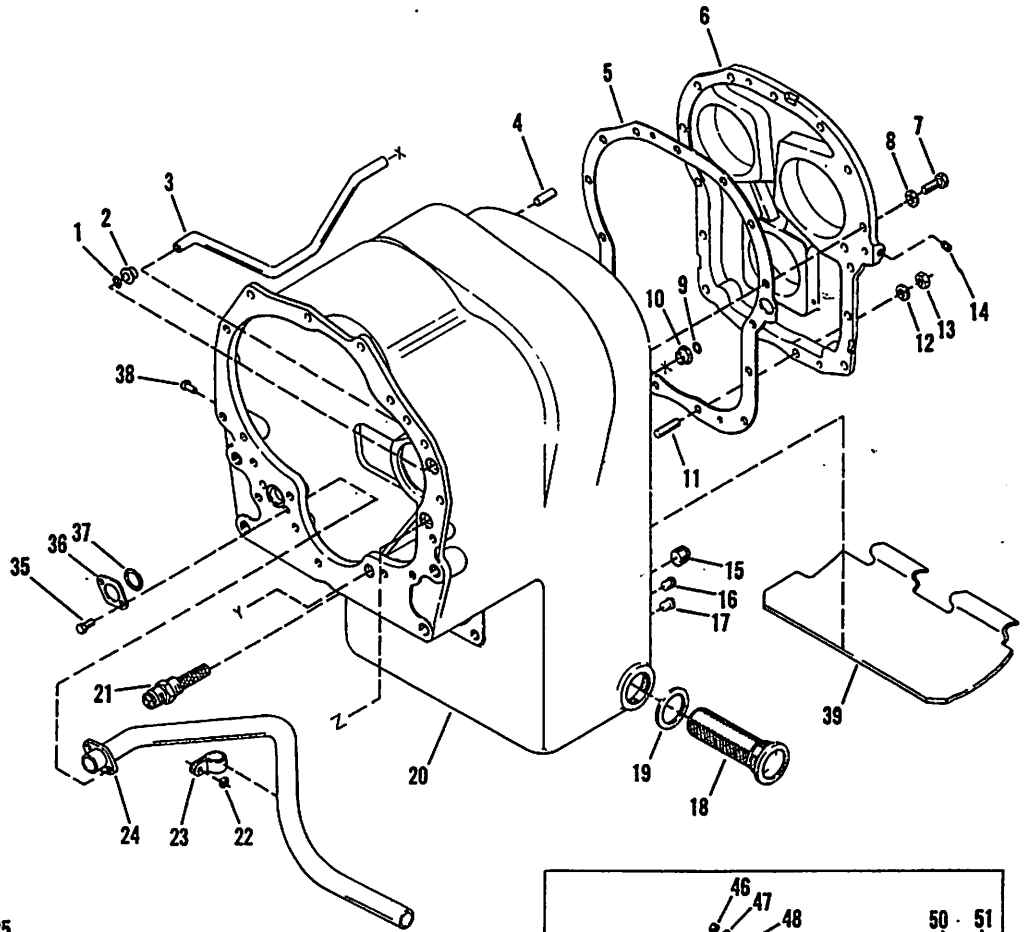
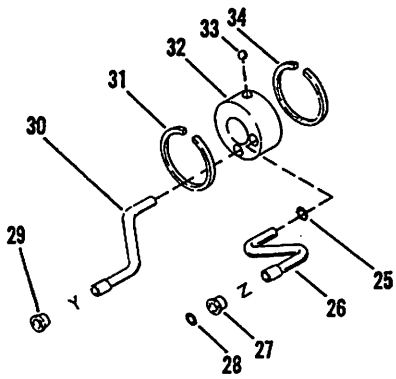
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CONVERTER HOUSING TO TRANSMISSION
CASE SPACER USED ONLY WITH 12
PLATE CLUTCH PACK ASSEMBLY.



SPECIAL SUMP

MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- TRANSMISSION CASE & REAR GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8702158	PRESSURE TUBE O-RING	1
2	8700134	PRESSURE TUBE SLEEVE	1
3	8702159	LOW SPEED CLUTCH PRESSURE TUBE	1
4	8702160	CASE TO COVER DOWEL PIN	2
5	8702161	CASE TO COVER GASKET	1
6	8702162	REAR COVER	1
7	8702163	CAP SCREW	21
8	8702164	LOCK WASHER	21
9	8702158	PRESSURE TUBE O-RING	1
10	8700134	PRESSURE TUBE SLEEVE	1
11	8702165	STUD	2
12	8702164	LOCK WASHER	2
13	8702167	NUT	2
14	8700145	REAR COVER PIPE PLUG	1
15	8700149	MAGNETIC DRAIN PLUG	1
16	8702168	OIL LEVEL PLUG	1
17	8702168	OIL LEVEL PLUG	1
18	8702169	SCREEN ASSEMBLY	1
19	8700186	SCREEN ASSEMBLY GASKET	1
20	8702170	TRANSMISSION CASE ASSEMBLY INCLUDES ITEMS 2,3,10,22-24,35-38	1
21	8702171	TRANSMISSION CASE PLUG	1
22	8702172	SUCTION TUBE CLIP WASHER	1
23	8702173	SUCTION TUBE CLIP	1
24	8702174	SUCTION TUBE ASSEMBLY	1
25 THRU 34		NOT USED ON THIS MODEL	

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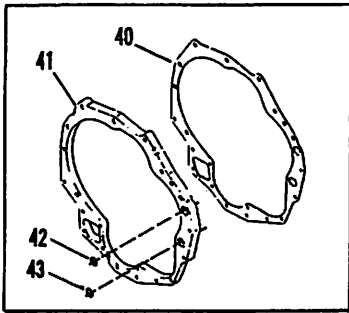
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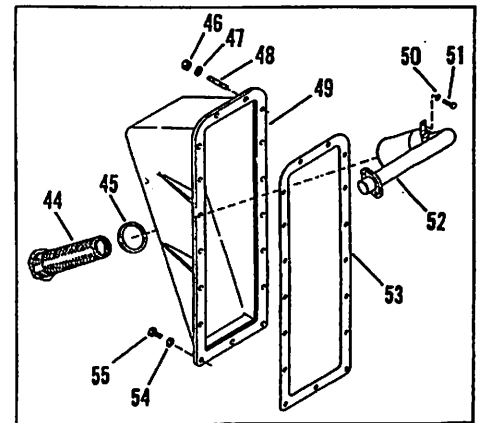
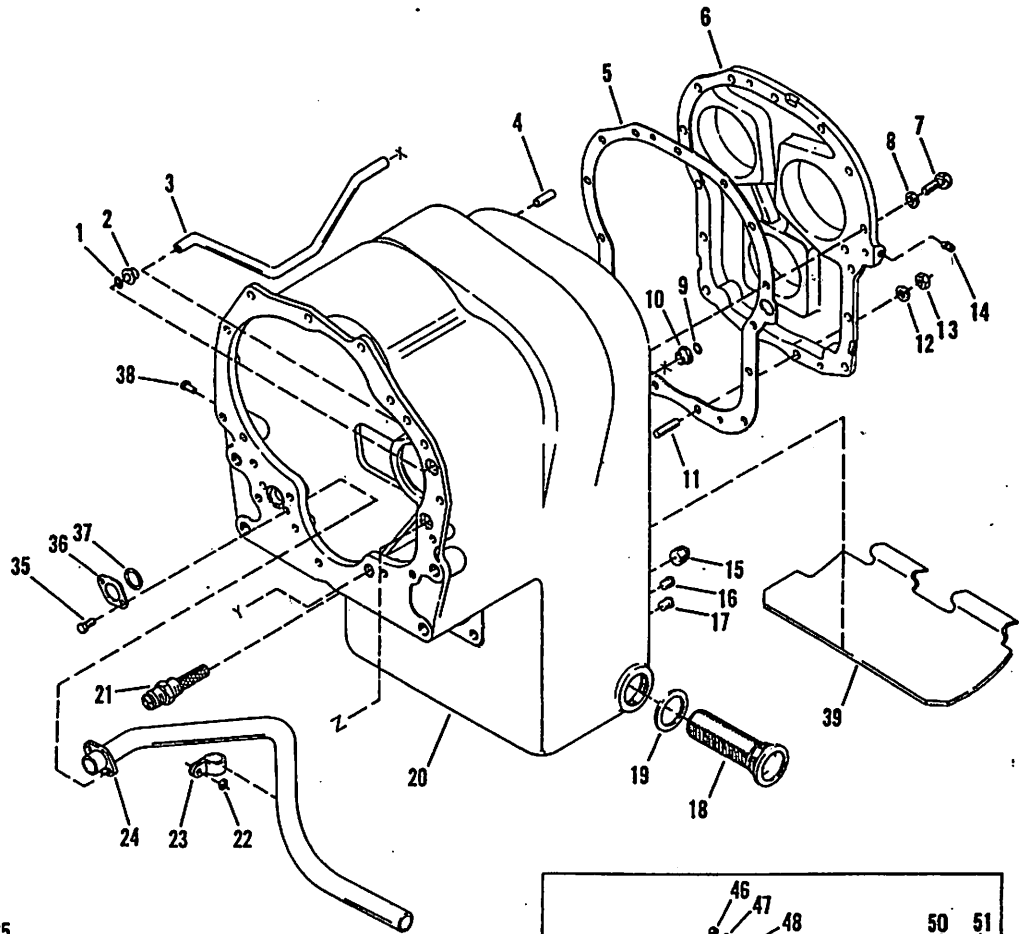
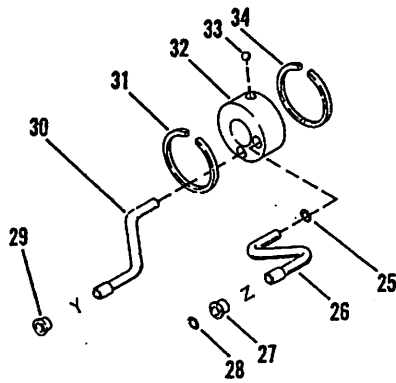
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CONVERTER HOUSING TO TRANSMISSION
CASE SPACER USED ONLY WITH 12
PLATE CLUTCH PACK ASSEMBLY.



SPECIAL SUMP

MACHINE SECTION 1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBERDESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- TRANSMISSION CASE & REAR GROUP

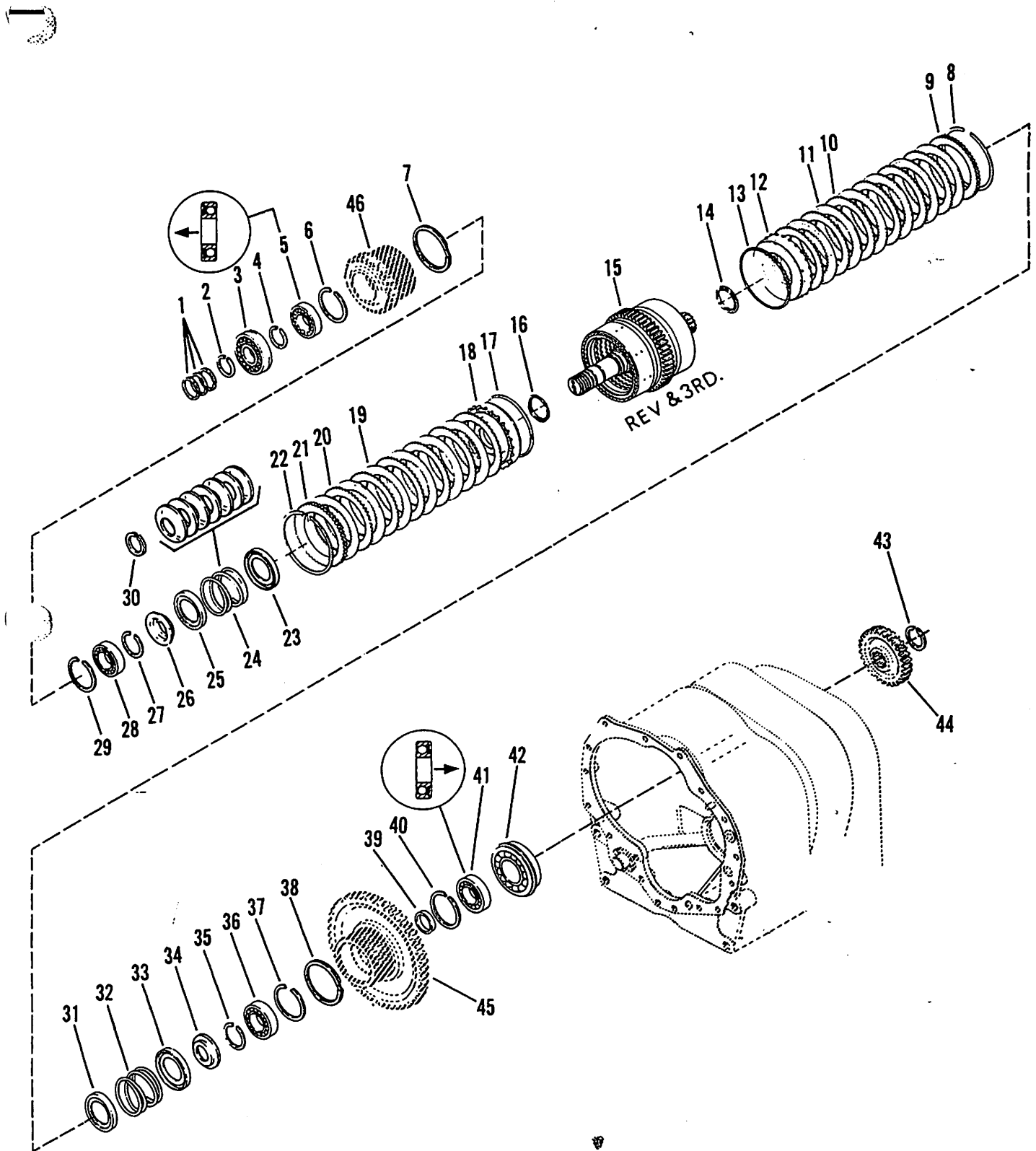
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
35	8702175	RETAINING WASHER SCREW	2
36	8702176	RETAINING WASHER	1
37	8702177	SUCTION TUBE O-RING	1
38	8702178	SUCTION TUBE CLIP RIVET	1
39	8702179	OIL BAFFLE	1
40 THRU 43		NOT USED ON THIS MODEL	

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MACHINE	SECTION	1
MODEL SL180-13 SWINGLOADER	DRIVE SYSTEM	

ASSEMBLY
NUMBER

1802018

DESCRIPTION

TRANSMISSION ASSEMBLY
- REVERSE & HIGH SHAFT GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700217	REV. & 3RD CLUTCH SHAFT PISTON RING	3
2	8700218	FRONT BEARING RETAINER RING	1
3	8702144	REVERSE & 3RD SHAFT FRONT BEARING	1
4	8700218	FRONT BEARING RETAINER RING	4
5	8700221	CLTCH DRIVEN GEAR BRG-SHIELD MUST FACE OUT	1
6	8702181	CLUTCH DRIVEN GEAR BEARING SNAP RING	1
7	8702182	CLUTCH HUB OIL BAFFLE RING	1
8	8702183	END PLATE RETAINER RING	1
9	8702184	END PLATE	1
10	8702185	CLUTCH OUTER DISC	6
11	8702186	CLUTCH INNER DISC	6
12	8702187	CLUTCH PISTON	1
13	8702188	CLUTCH PISTON OUTER SEAL	1
14	8702189	CLUTCH PISTON INNER SEAL	1
15	8702190	REVERSE & 3RD CLUTCH DRUM & PLUG ASSEMBLY	1
16	8702189	CLUTCH PISTON INNER SEAL	1
17	8702188	CLUTCH PISTON OUTER SEAL	1
18	8702187	CLUTCH PISTON ASSEMBLY	1
19	8702186	CLUTCH INNER DISC	6
20	8702185	CLUTCH OUTER DISC	6
21	8702184	END PLATE	1
22	8702183	END PLATE RETAINER	1
23	8702191	SPRING RETAINER	1
24	8702192	PISTON RETURN SPRING	1
25	8702193	SPRING RETAINER	1
26	8702194	SPRING RETAINER SNAP RING RETAINER	1

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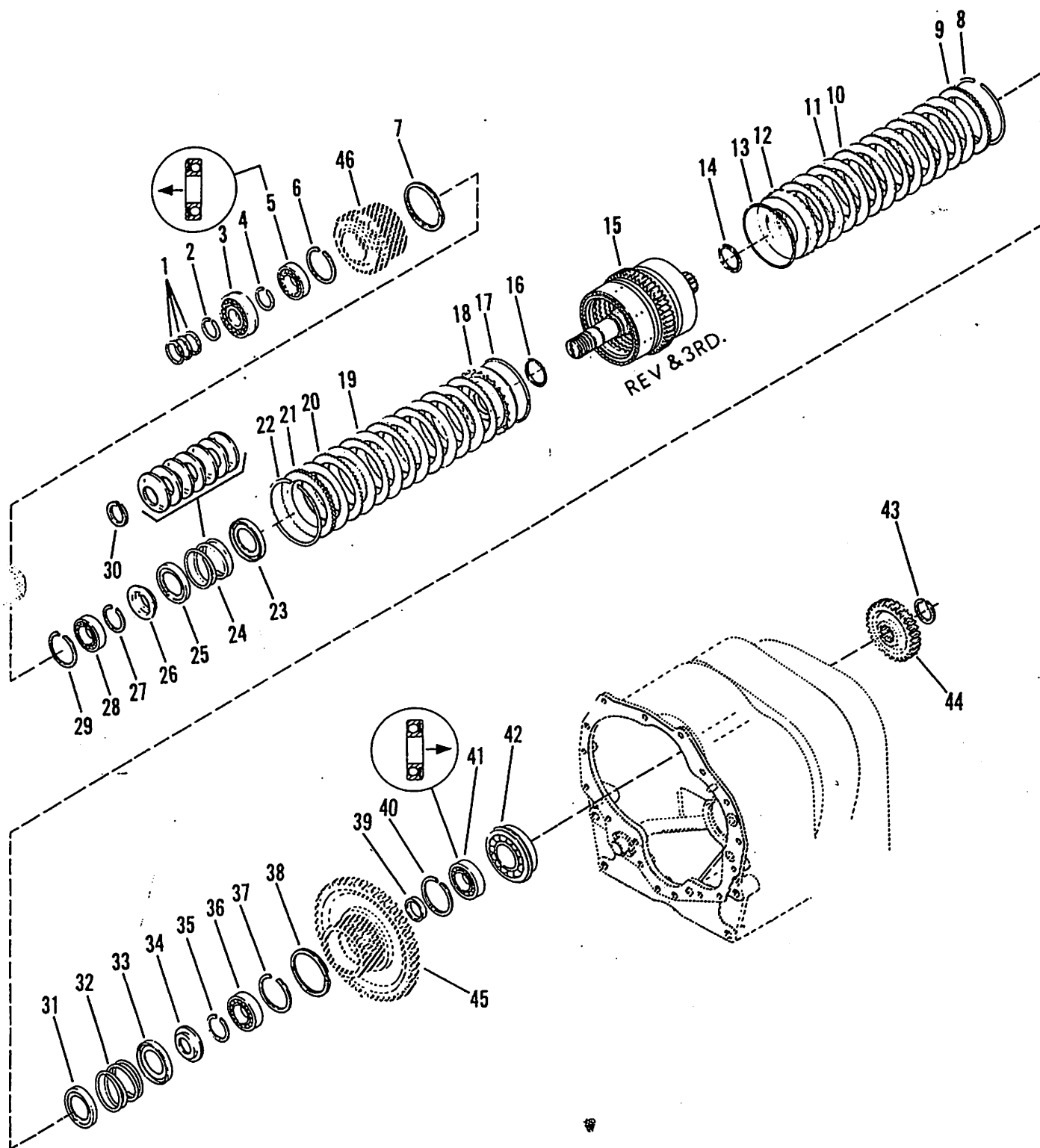
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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- REVERSE & HIGH SHAFT GROUP

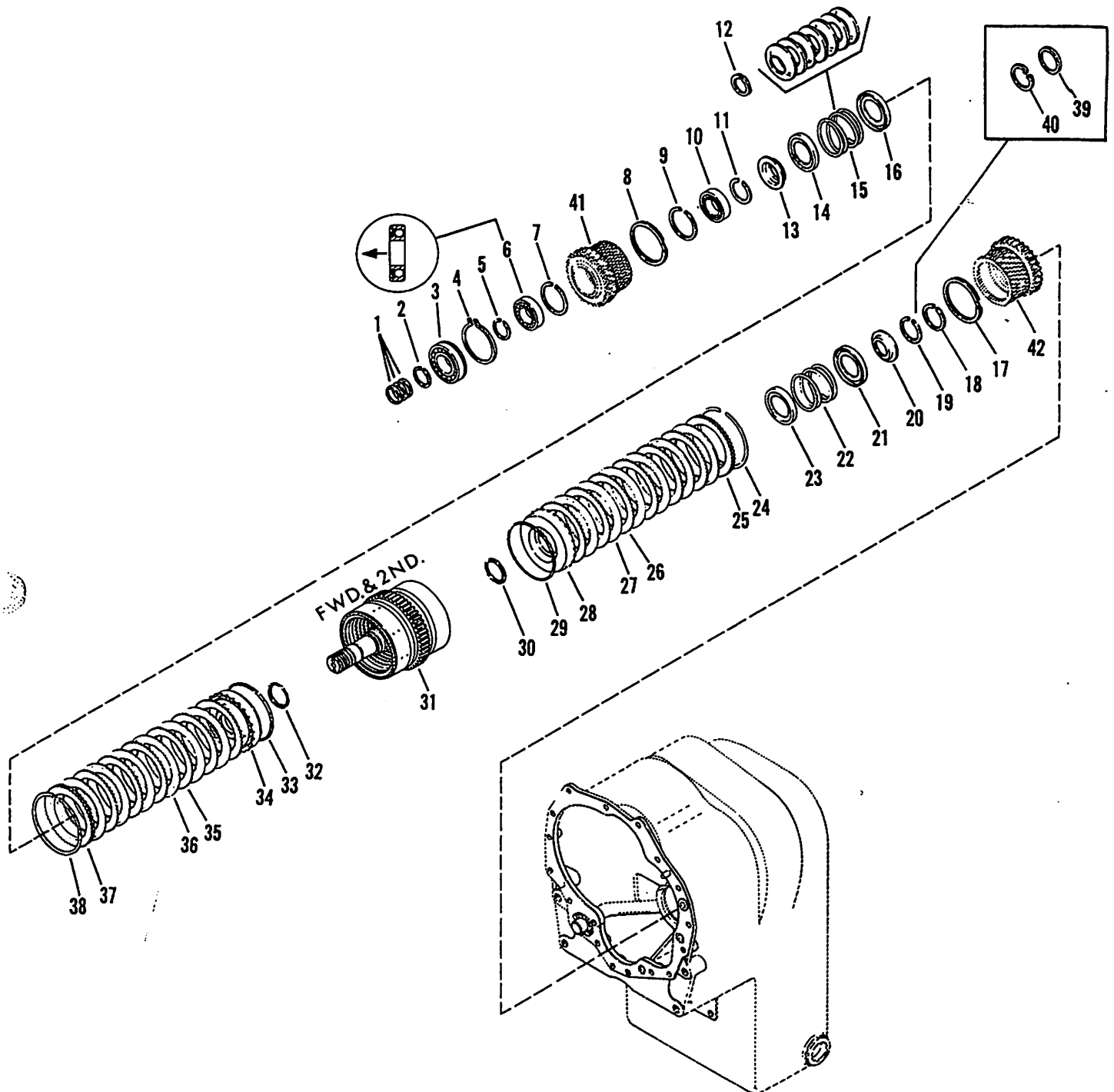
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
27	8700239	SPRING RETAINER SNAP RING	1
28	8700224	CLUTCH DRIVEN GEAR BEARING	1
29	8702181	CLUTCH DRIVEN GEAR BEARING SNAP RING	1
30		NOT USED ON THIS MODEL	
31	8702191	SPRING RETAINER	1
32	8702192	PISTON RETURN SPRING	1
33	8702193	SPRING RETAINER	1
34	8702194	SPRING RETAINER SNAP RING RETAINER	1
35	8700239	SPRING RETAINER SNAP RING	1
36	8702196	3RD GEAR BEARING	1
37	8702197	3RD GEAR BEARING SNAP RING	1
38	8702182	CLUTCH HUB OIL BAFFLE RING	1
39	8702198	3RD GEAR BEARING SPACER	1
40	8702197	3RD GEAR BEARING SNAP RING	1
41	8702199	3RD GEAR BEARING - SHIELD MUST FACE OUT	1
42	8702200	REVERSE & 3RD SHAFT REAR BEARING	1
43	8702201	GEAR RETAINING RING	1
44	8702202	LOW CLUTCH DRIVE GEAR - 26 TEETH	1
45	8702203	3RD GEAR - 60 TEETH	1
46	8702204	CLUTCH DRIVEN GEAR - 28 TEETH	1

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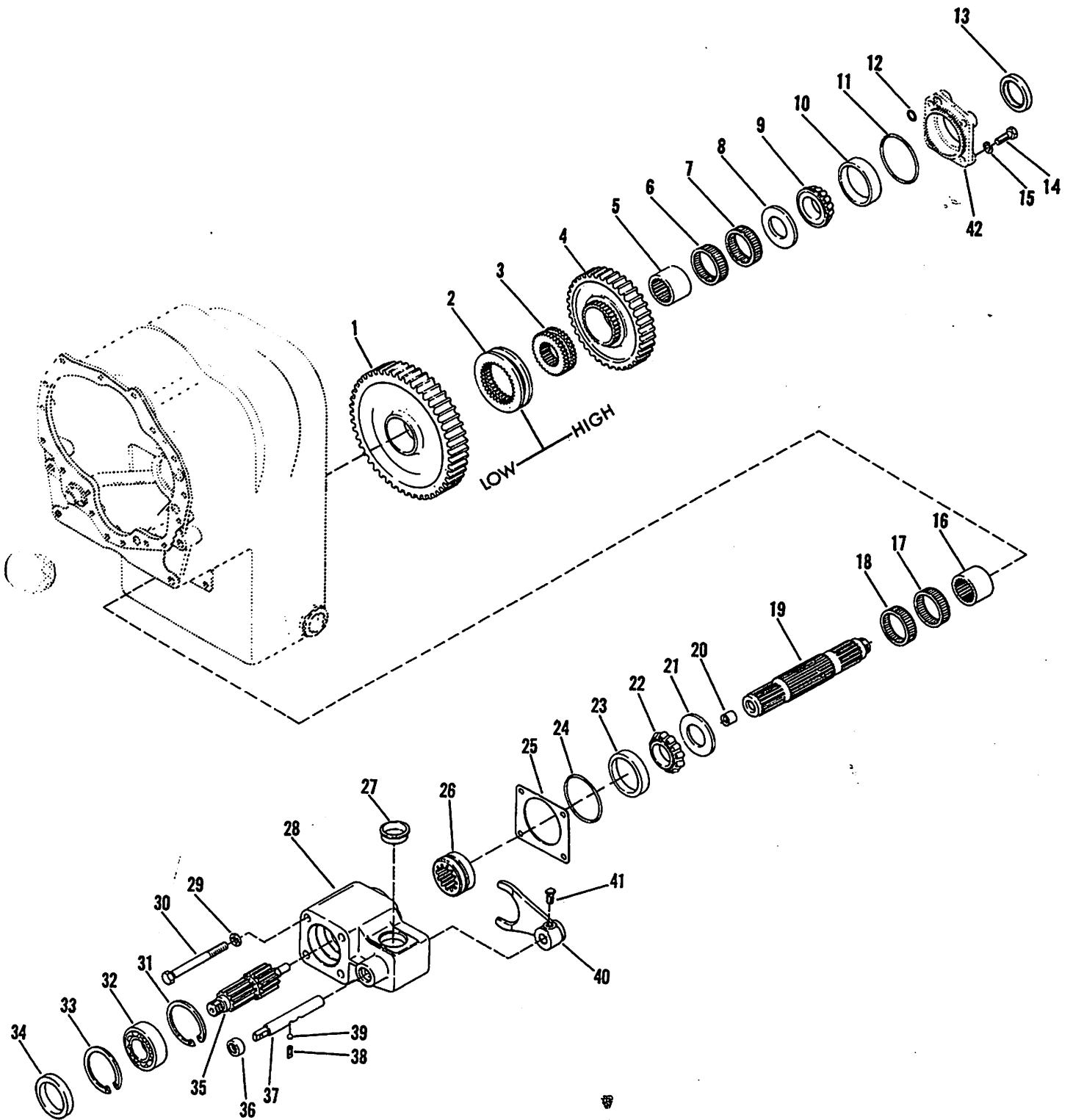
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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY NUMBER		DESCRIPTION	
1802018		TRANSMISSION ASSEMBLY	
		- OUTPUT SHAFT GROUP	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8702244	LOW RANGE GEAR - 50 TEETH	1
2	8702245	SHIFT HUB	1
3	8702246	SLEEVE	1
4	8702247	HIGH RANGE GEAR - 48 TEETH	1
5	8702248	INNER RACE	1
6	8702249	BEARING	1
7	8702249	BEARING	1
8	8702250	THRUST WASHER	1
9	8702251	REAR BEARING CONE	1
10	8702252	REAR BEARING CUP	1
11	8702253	O-RING	1
12	8702254	O-RING	1
13	8702255	OIL SEAL	1
14	8702256	SCREW	4
15	8700344	LOCK WASHER	4
16	8702248	INNER RACE	1
17	8702249	OUTPUT GEAR BEARING	1
18	8702249	OUTPUT GEAR BEARING	1
19	8702257	OUTPUT SHAFT & BUSHING ASSY - INCLUDES 20	1
20	8700352	OUTPUT SHAFT BUSHING	1
21	8702250	OUTPUT GEAR THRUST WASHER	1
22	8702258	FRONT BEARING CONE	1
23	8702259	FRONT BEARING CUP	1
24	8702260	O-RING	1
25	8702261	SHIM (0.004")	AR
25A	8702262	SHIM (0.007")	AR

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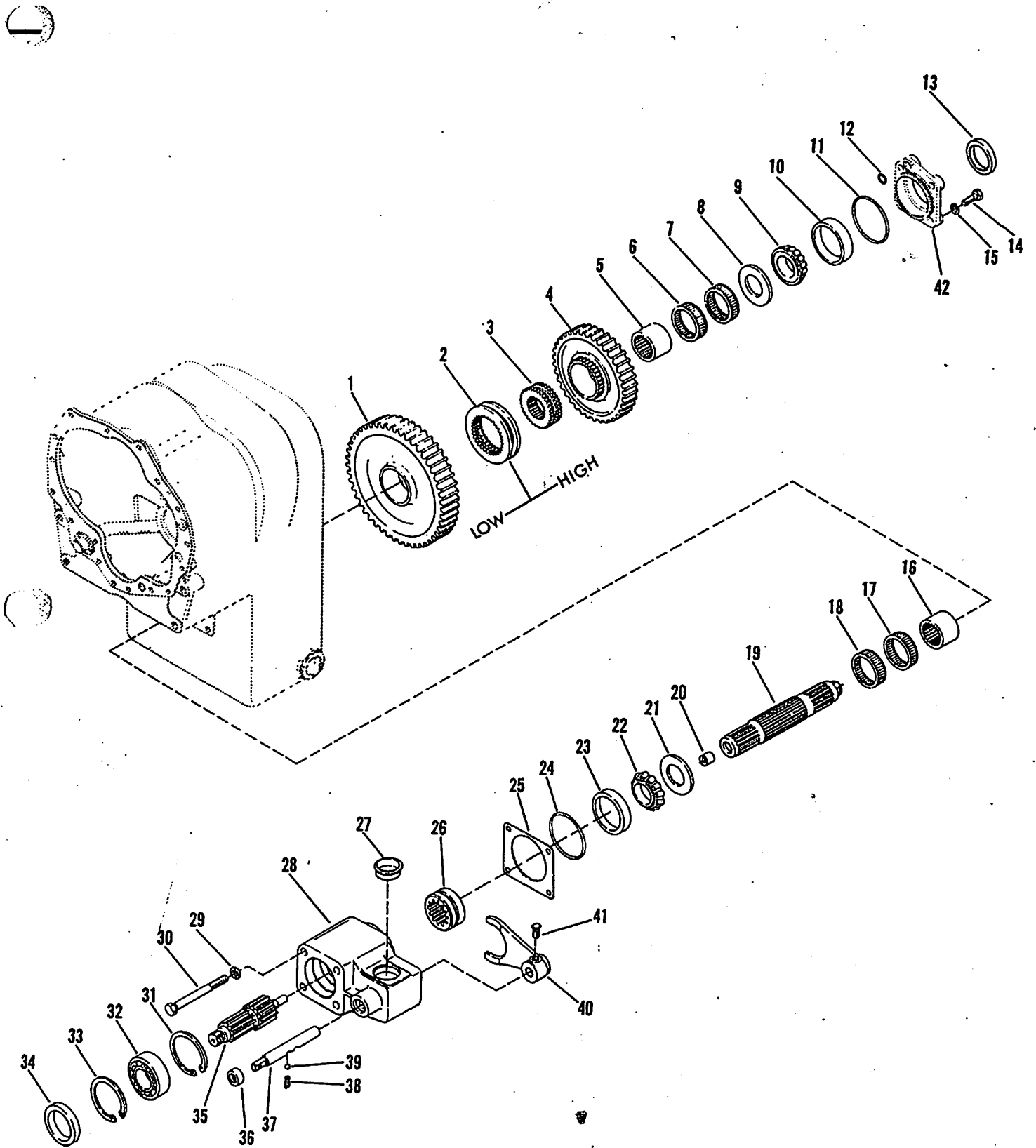
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MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

1802018

DESCRIPTION

TRANSMISSION ASSEMBLY
- OUTPUT SHAFT GROUP

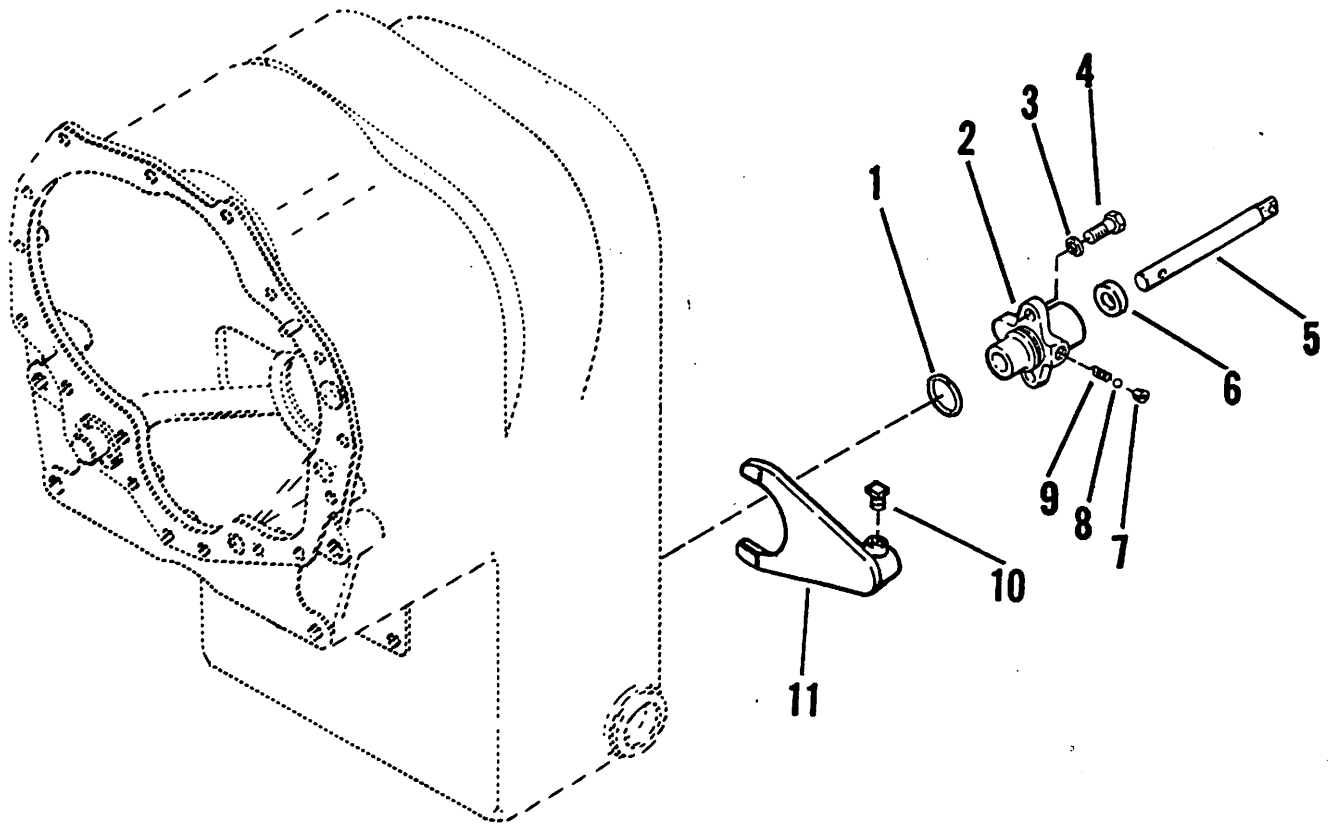
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
25B	8702263	SHIM (0.010")	AR
25C	8702264	SHIM (0.020")	AR
26	8702265	SHIFT HUB	1
27	8700330	PLUG	1
28	8702266	DISCONNECT HOUSING	1
29	8700344	LOCK WASHER	4
30	8702267	CAP SCREW	4
31	8702268	RETAINER RING	1
32	8702119	BEARING	1
33	8702268	RETAINER RING	1
34	8702271	OIL SEAL	1
35	8702272	DISCONNECT SHAFT	1
36	8700368	OIL SEAL	1
37	8702273	SHIFT RAIL	1
38	8700340	DETENT SPRING	1
39	8700339	DETENT BALL	1
40	8702274	SHIFT FORK	1
41	8700336	LOCK SCREW	1
42	8702275	OUTPUT SHAFT REAR BEARING CAP	1

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MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER-----
1802018

DESCRIPTION

TRANSMISSION ASSEMBLY
- HIGH & LOW RANGE SHIFT CONTROL GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700067	O-RING	1
2	8700365	RANGE SHIFT RAIL SUPPORT	1
3		PART OF ITEM 4	
4	8702214	SCREW & LOCK WASHER	2
5	8702277	RANGE SHIFT RAIL	1
6	8700368	OIL SEAL	1
7	8700137	DETENT PLUG	1
8	8700339	DETENT BALL	1
9	8700340	DETENT SPRING	1
10	8700336	SHIFT FORK LOCK SCREW	1
11	8702278	HIGH & LOW RANGE SHIFT FORK	1

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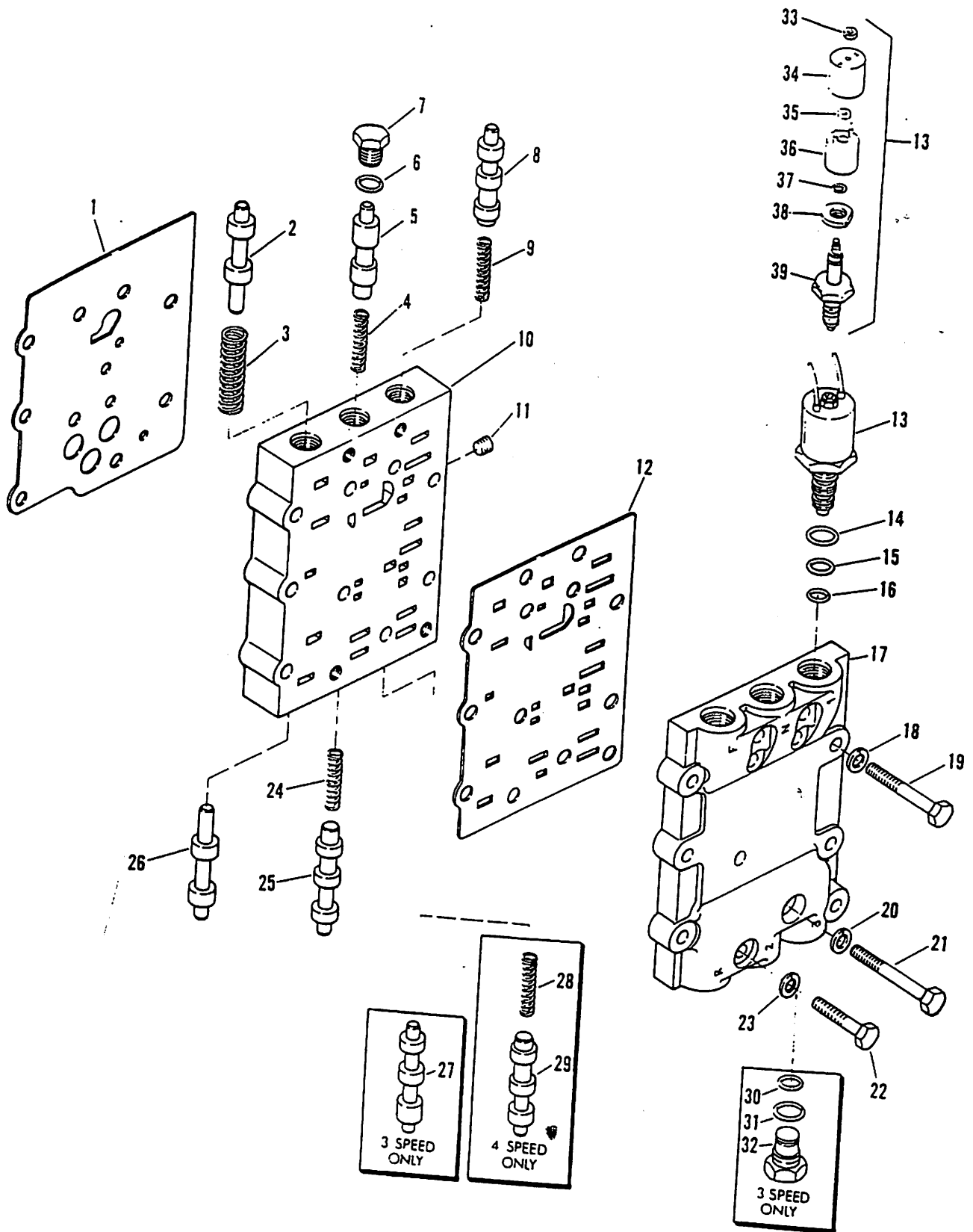
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MACHINE SECTION 1

MODEL SL180-13 SWINGLOADER DRIVE SYSTEM

ASSEMBLY NUMBER	DESCRIPTION
1802018	TRANSMISSION ASSEMBLY - SOLENOID CONTROL VALVE ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8702279	HOUSING GASKET	1
2	8702280	FORWARD SPOOL	1
3	8702281	FORWARD & REVERSE SPOOL SPRING	1
4	8702282	RANGE SPOOL SPRING	1
5	8702283	RANGE SPOOL (W/NEUTRAL)	1
6	8702284	O-RING	6
7	8702285	VALVE SPOOL STOP PLUG - INCLUDES ITEM 6	6
8	8702286	LOW SPEED SPOOL	1
9	8702282	SPRING	1
10	8702287	CONTROL VALVE ASSEMBLY INCLUDES ITEMS 2-11,24-29	1
11	8700145	PIPE PLUG	1
12	8702288	HOUSING GASKET	1
13	8701927	SOLENOID (12 VOLT) INCLUDES ITEMS 33-39	5
14	8702284	O-RING	5
15	8702289	O-RING	5
16	8702290	O-RING	5
17	8702291	SOLENOID CONTROL HOUSING	1
18	8700060	LOCK WASHER	5
19	8702292	CAP SCREW	5
20	8700060	LOCK WASHER	4
21	8702293	CAP SCREW	4
22	8700061	CAP SCREW	4
23	8700060	LOCK WASHER	4
24	8702282	SPRING	1

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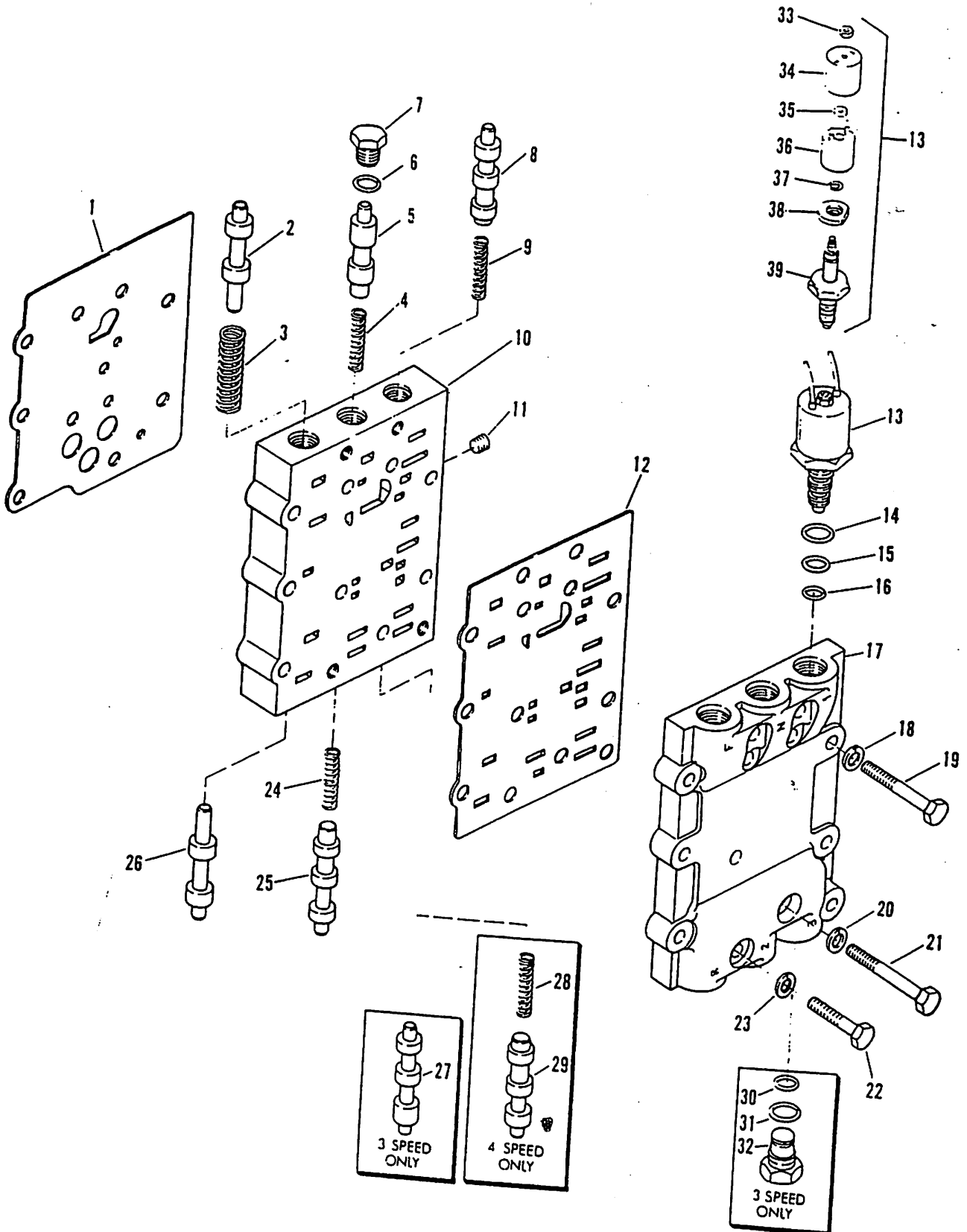
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MACHINE SECTION 1

MODEL SL180-13 SWINGLOADER DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- SOLENOID CONTROL VALVE ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
25	8702294	2ND SPEED SPOOL	1
26	8702280	REVERSE SPOOL	1
27	8702295	SPEED SELECTOR SPOOL	1
28 & 29		NOT USED ON THIS MODEL	
30	8702289	O-RING	1
31	8702284	O-RING	1
32	8702296	SOLENOID PLUG	1
33	8702297	STOP NUT	5
34	8702300	COIL COVER	5
35	8702299	WASHER	5
36	8702298	COIL	5
37	8702290	O-RING	5
38	8702302	WASHER	5
39	8703533	CARTRIDGE ASSEMBLY - INCLUDES ITEMS 14-16	5

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11415 MELROSE AVENUE

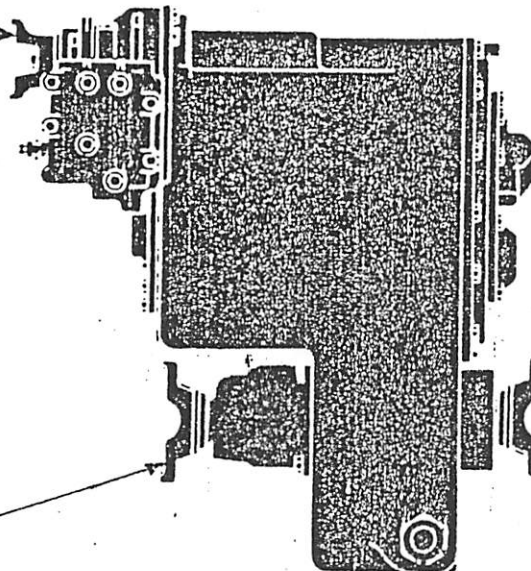
FRANKLIN PARK, ILLINOIS 60131

TEL: (847) 451-1224

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- DRIVE FLANGE

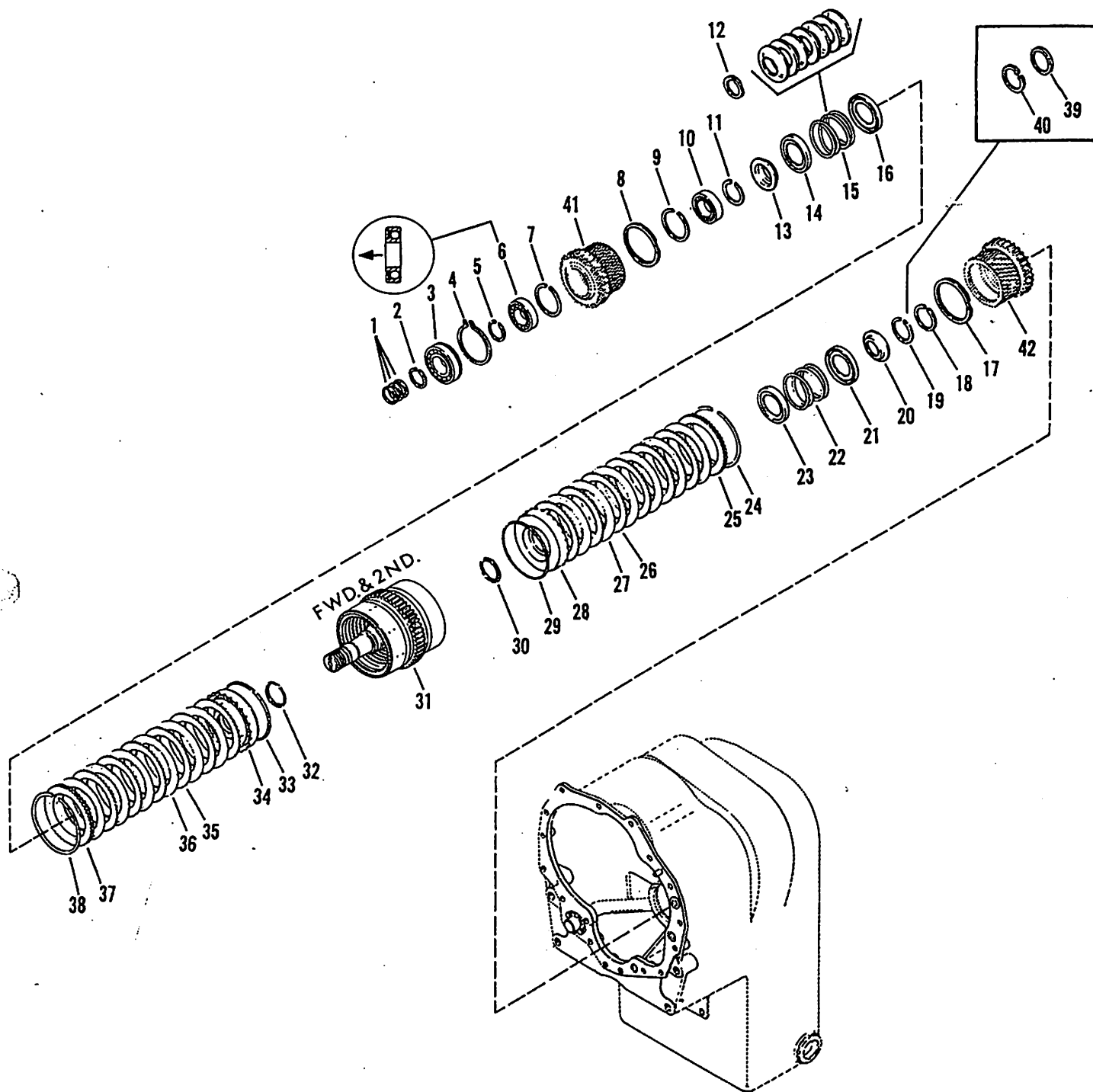
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700068	INPUT FLANGE	1
2	8700065	NUT	1
3	8700066	WASHER	1
4	8700067	O-RING	1
5	8702303	OUTPUT FLANGE	2
6	8702304	NUT	2
7	8702305	WASHER	2
8	8702306	O-RING	2

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MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

1802018

DESCRIPTION

TRANSMISSION ASSEMBLY
- FORWARD & SECOND SHAFT GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
27	8702186	CLUTCH INNER DISC	6
28	8702187	CLUTCH PISTON ASSEMBLY	1
29	8702188	CLUTCH PISTON OUTER SEAL	1
30	8702189	CLUTCH PISTON INNER SEAL	1
31	8702205	FWD. & 2ND SHAFT, CLUTCH DRUM & PLUG ASSY	1
32	8702189	CLUTCH PISTON INNER SEAL	1
33	8702188	CLUTCH PISTON OUTER SEAL	1
34	8702187	CLUTCH PISTON ASSEMBLY	1
35	8702185	CLUTCH OUTER DISC	6
36	8702186	CLUTCH INNER DISC	6
37	8702184	END PLATE	1
38	8702183	RETAINER RING	1
39 & 40		NOT USED ON THIS MODEL	
41	8702204	FORWARD CLUTCH DRIVEN GEAR - 28 TEETH	1
42	8702206	2ND GEAR - 22 TEETH	1

SWINGMASTER CORPORATION

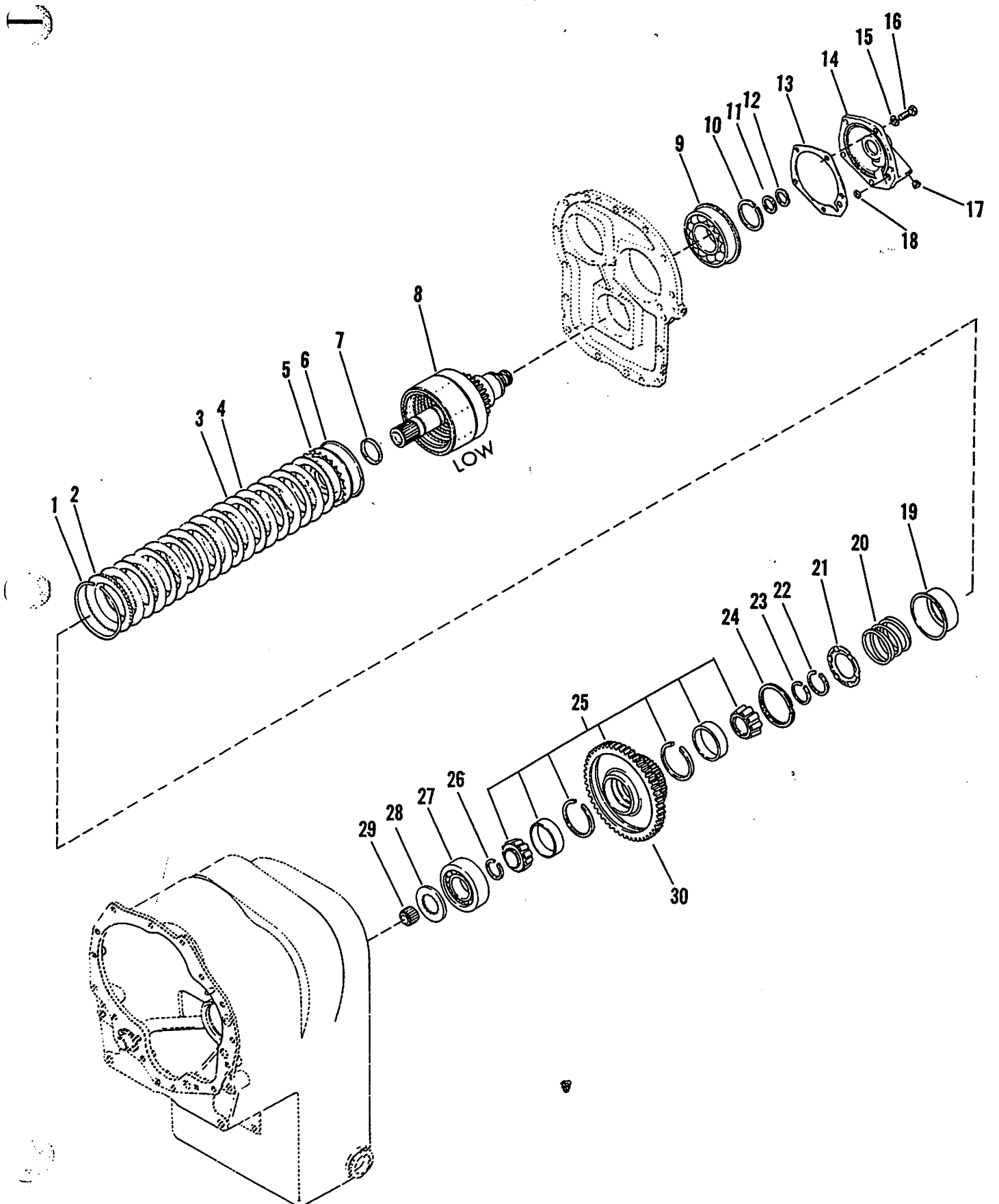
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CLARK

CLARK



MACHINE	SECTION	1
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MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

		ASSEMBLY NUMBER	DESCRIPTION	
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		1802018	TRANSMISSION ASSEMBLY	
		-----	- LOW SPEED SHAFT GROUP	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED

1	8702183	RETAINER RING	1
2	8702184	END PLATE	1
3	8702185	CLUTCH OUTER DISC	9
4	8702207	CLUTCH INNER DISC	9
5	8702187	CLUTCH PISTON ASSEMBLY	1
6	8702208	CLUTCH OUTER SEAL	1
7	8702189	CLUTCH INNER SEAL	1
8	8702209	LOW SPEED CLUTCH SHAFT, DRUM & PLUG ASSY.	1
9	8702210	REAR BEARING	1
10	8700170	RETAINER RING	1
11	8702211	CLUTCH SHAFT PISTON RING	1
12	8702211	CLUTCH SHAFT PISTON RING	1
13	8702212	GASKET	1
14	8702212	REAR BEARING CAP	1
15-16	8702214	CAP SCREW & LOCK WASHER	5
17	8700145	PLUG	1
18	8702216	O-RING	1
19	8702217	SPRING RETAINER	1
20	8702192	PISTON RETURN SPRING	1
21	8702219	SPRING & SNAP RING RETAINER	1
22	8700239	SPRING RETAINER SNAP RING	1
23	8702220	BEARING RETAINER RING	1
24	8702182	CLUTCH HUB OIL BAFFLE RING	1
25	8702221	LOW SPEED GEAR BEARING ASSEMBLY	1
26	8702222	RING KIT	1
27	8700094	2ND GEAR BEARING	1
28		NOT USED ON THIS MODEL	
29	8702224	LOW SPEED CLUTCH SHAFT PILOT BEARING	1
30	8702225	LOW SPEED GEAR	1

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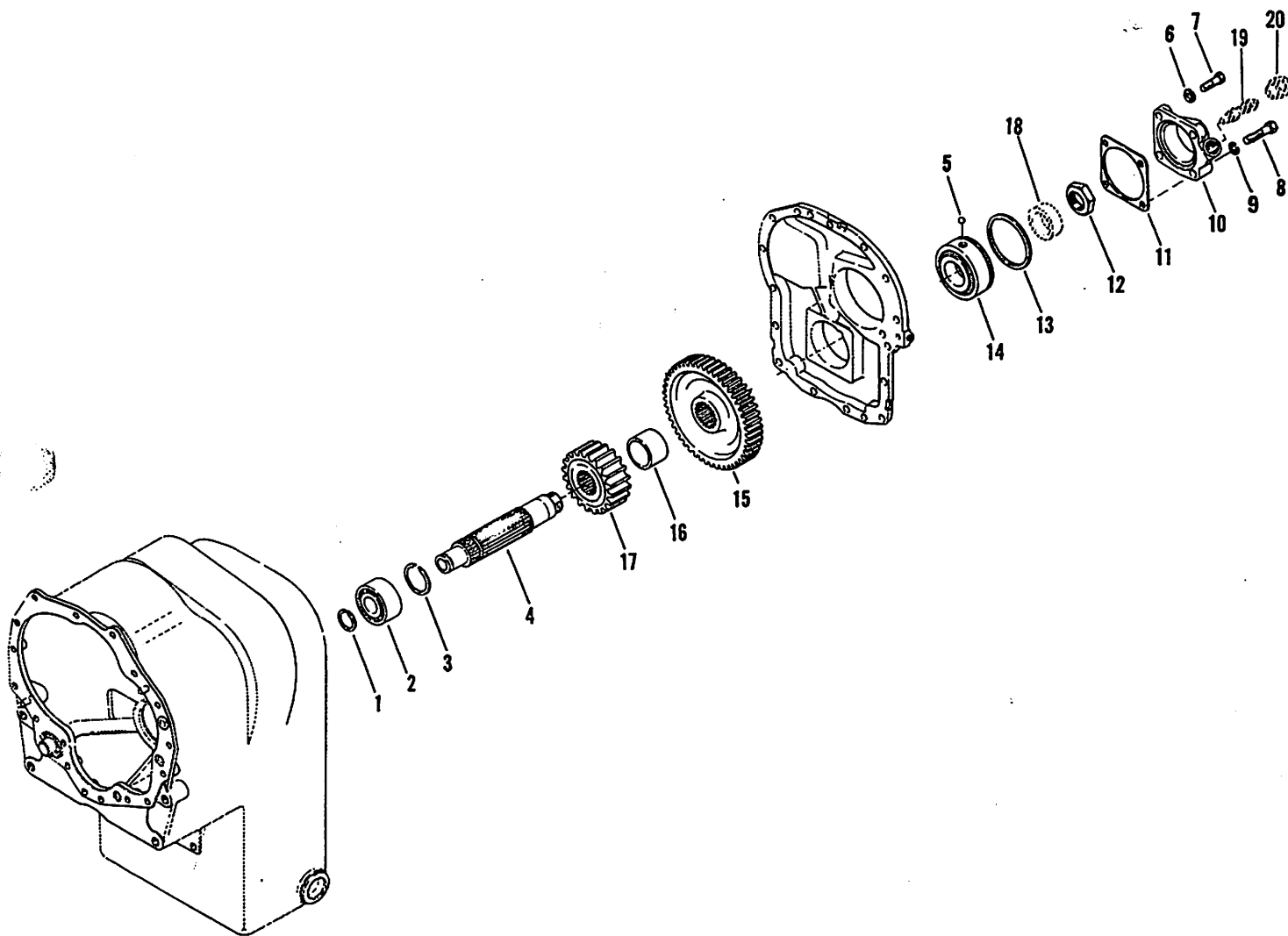
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CLARK

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- FORWARD & SECOND SHAFT GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700217	FORWARD & 2ND SHAFT PISTON RING	3
2	8700218	FRONT BEARING RETAINER RING	1
3	8700220	FORWARD & 2ND SHAFT FRONT BEARING	1
4	8700219	FRONT BEARING LOCATING RING	1
5	8700218	FRONT BEARING RETAINER RING	1
6	8700221	CLUTCH DRIVEN GEAR BEARING-SHIELD OUT	1
7	8702181	SNAP RING	1
8	8702182	CLUTCH HUB OIL BAFFLE RING	1
9	8702181	SNAP RING	1
10	8700224	CLUTCH DRIVEN GEAR BEARING	1
11	8700239	SNAP RING	1
12		NOT USED ON THIS MODEL	
13	8702194	SNAP RING RETAINER	1
14	8702193	SPRING RETAINER	1
15	8702192	PISTON RETURN SPRING	1
16	8702191	SPRING RETAINER	1
17	8702182	CLUTCH HUB OIL BAFFLE RING	1
18	8700239	2ND GEAR RETAINER RING	1
19	8700239	SNAP RING	1
20	8702194	SNAP RING RETAINER	1
21	8702193	SPRING RETAINER	1
22	8702192	PISTON RETURN SPRING	1
23	8702191	SPRING RETAINER	1
24	8702183	END PLATE RETAINER RING	1
25	8702184	END PLATE	1
26	8702185	CLUTCH OUTER DISC	6

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MACHINE

SECTION

1

MODEL SL180-13 SWINGLOADER

DRIVE SYSTEM

ASSEMBLY
NUMBER

DESCRIPTION

1802018

TRANSMISSION ASSEMBLY
- IDLER SHAFT GROUP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. USED
1	8700218	RETAINING RING	1
2	8702227	FRONT BEARING	1
3	8702228	GEAR LOCATING RING	1
4	8702229	IDLER SHAFT	1
5	8702230	REAR BEARING LOCK BALL	1
6	8700344	LOCK WASHER	3
7	8700386	IDLER SHAFT BEARING CAP SCREW	3
8	8702233	IDLER SHAFT BEARING CAP SCREW	1
9	8700344	LOCK WASHER	1
10	8702234	IDLER SHAFT BEARING CAP	1
11	8702235	GASKET	1
12	8702236	NUT	1
13	8702237	LOCATING RING	1
14	8702238	REAR BEARING	1
15	8722239	IDLER SHAFT GEAR	1
16	8702240	SPACER	1
17	8702241	LOW RANGE GEAR	1
18	8702242	IDLE SHAFT REAR BEARING SPACER	1
19	8702243	SPEEDOMETER GEAR HOLE PLUG	1
20		NOT USED WITH THIS MODEL	

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