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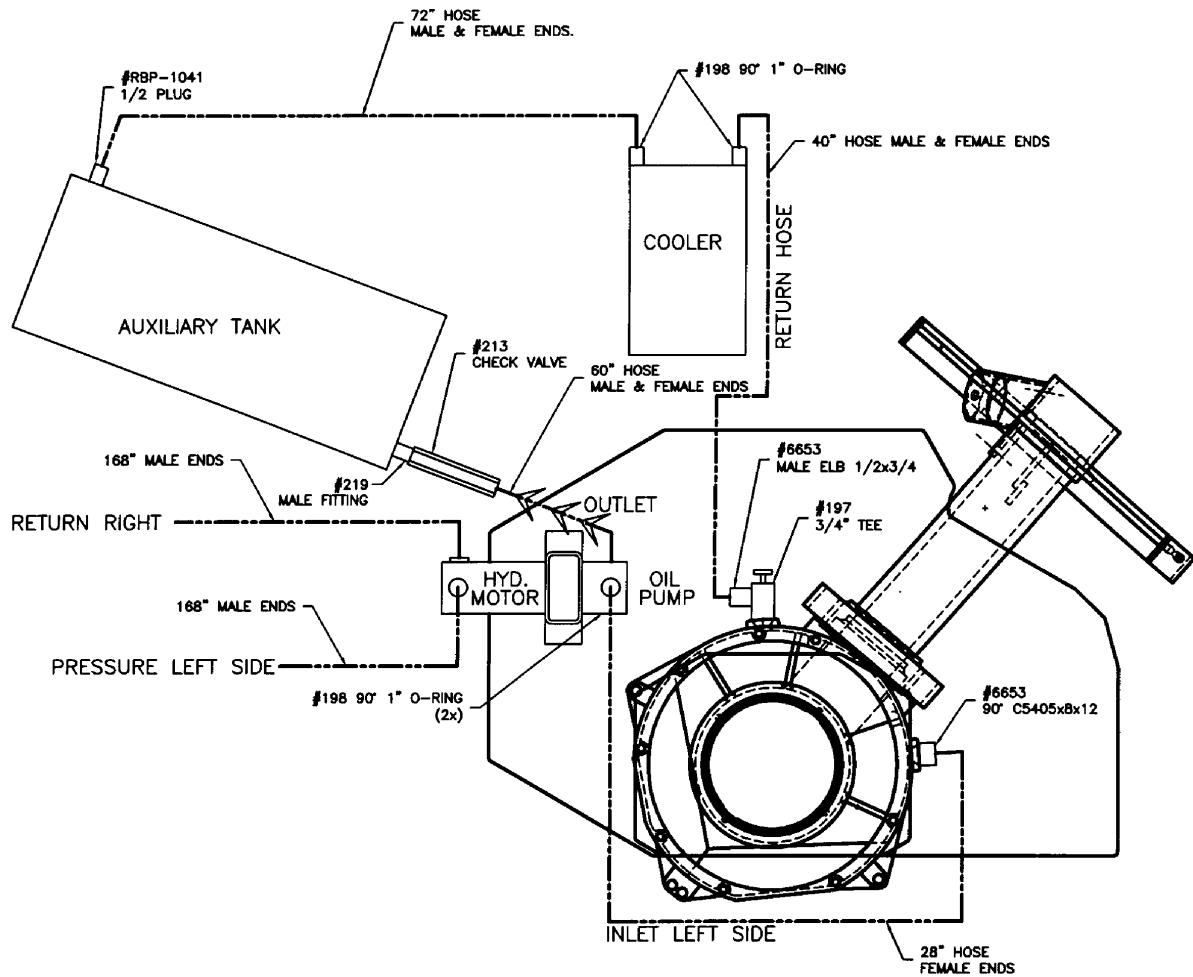
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Call or E-mail Northwest Tillers today
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Gear Case Cooler - OP4 (right) / OP4-1 (Left)

Cooler Line Directional Layout



NOTE:

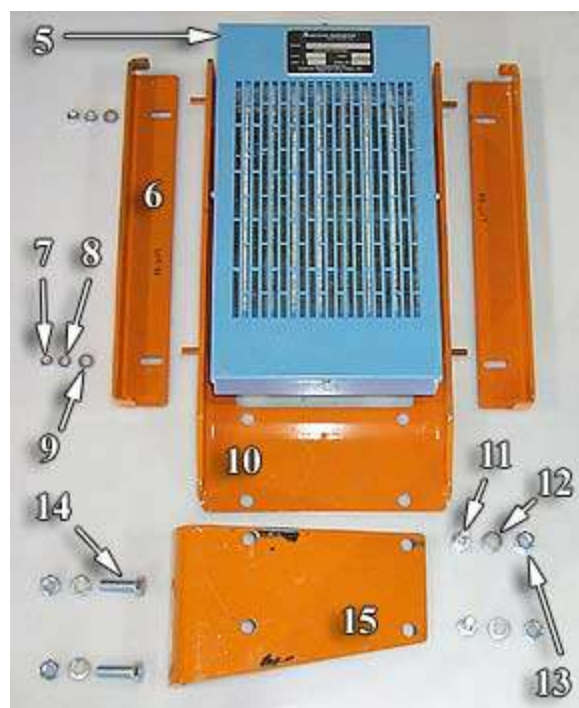
FROM FRONT VIEW OF TILLER
HYDRAULIC MOTOR TURNS TO RIGHT.

Gear Case Cooler - OP4 (right) / OP4-1 (Left)

Auxiliary Tank & SRB4916-1

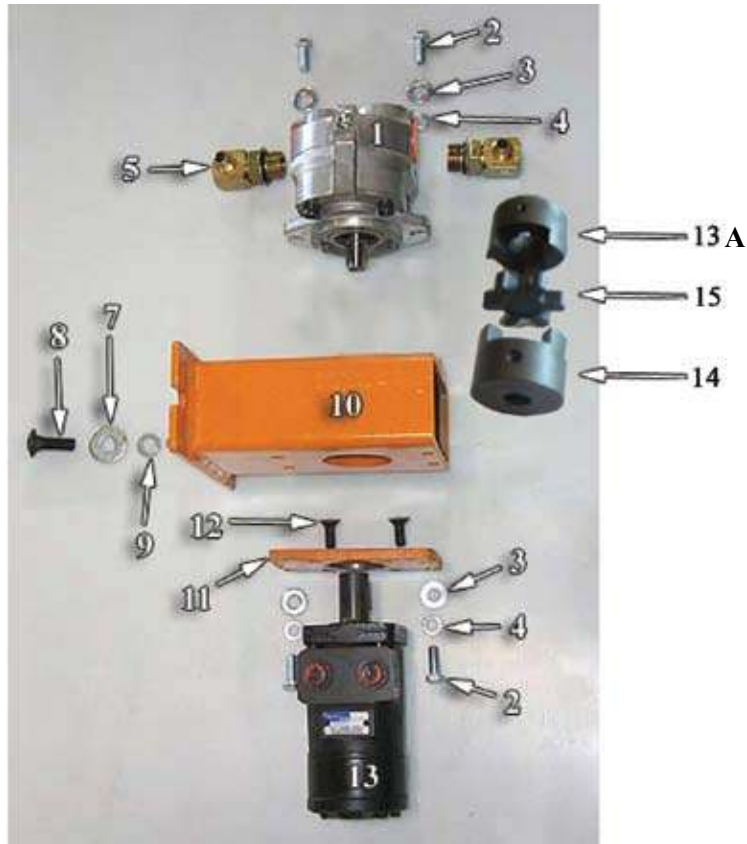
**Auxiliary Tank**

Item	Part #	Qty.	Description
1	814	2	1/2" Female JIC
2	RB-31786	1	Auxiliary Tank
3	219	1	Male Fitting
4	213	1	Check Valve
5	2767-2	1	Cooler
6	RB2114	1	Angle Clamp
7	10778	4	5/16" NC Nut
8	10788	4	5/16" Lockwasher
9	162	4	5/16" Flatwasher
10	RB2115	1	Angle Cooler Unit Mount
11	10586	4	1/2" x 1 1/4" NC Cap Screw
12	10791	6	1/2" Lockwasher
13	10781	6	1/2" Nut
14	10588	2	1/2" x 1 3/4" NC Cap Screw
15	RB-31787L	1	Cooler Mount Bracket (Left)
15	RB-31787R	1	Cooler Mount Bracket (Right)

**SRB4916-1**

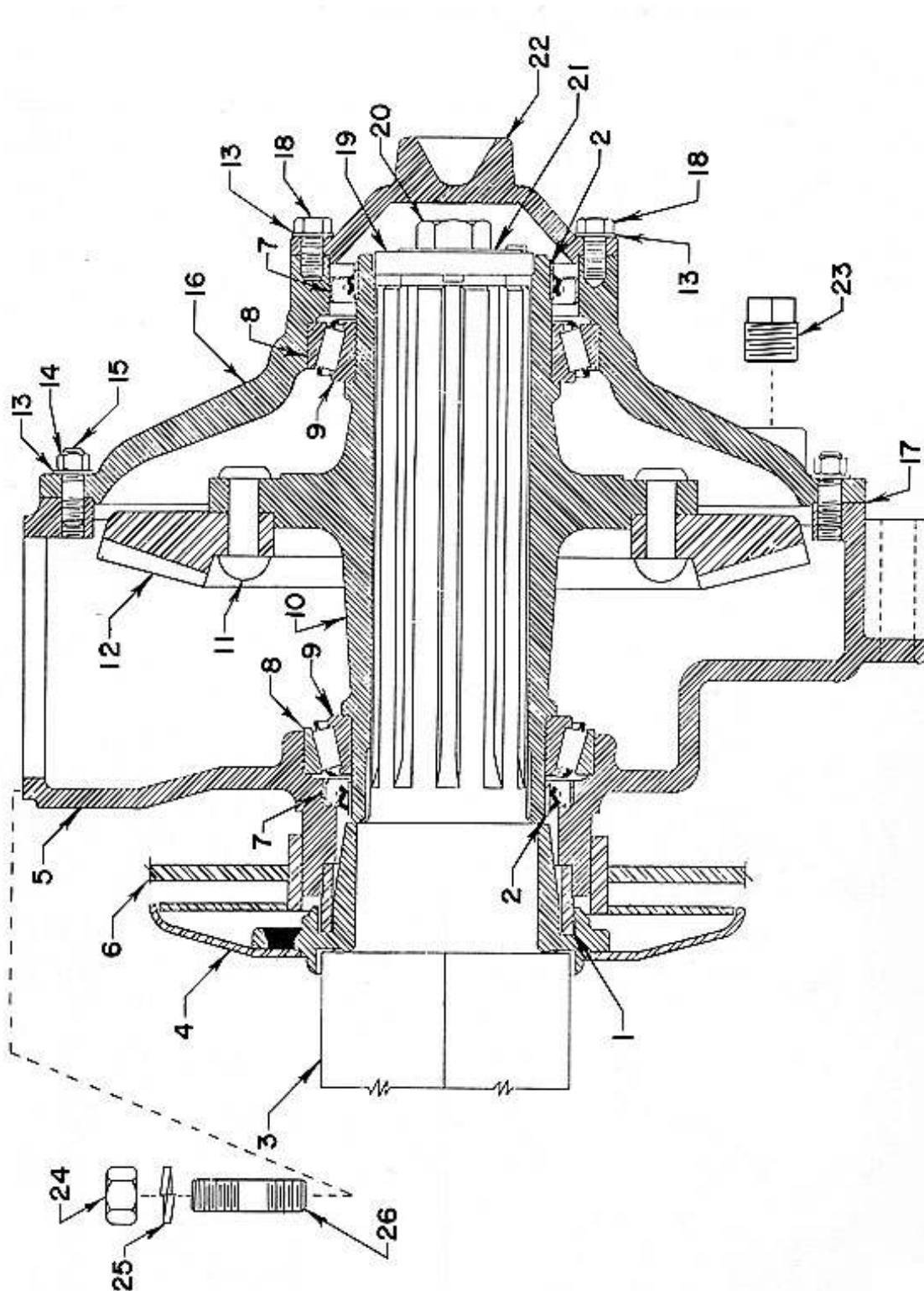
Gear Case Cooler - OP4 (right) / OP4-1 (Left)

SRB4915-1



Item	Part #	Qty.	Description
1	176	1	Oil Pump
2	10565	4	3/8"x1" NC. Cap Screw
3	10800	4	3/8" Washer
4	24	4	3/8" LockWasher
5	198	2	90o 1" O-Ring 1/2 Jic
7	10802	2	1/2" Washer
8	10728	2	1/2"x1 1/2" Carriage Bolt
9	10791	2	1/2" Lockwasher
(not shown)	10781	2	1/2" Nut
10	RB-2124	1	Mount, Motor/Pump
11	RB-2125	1	Spacer
12	10791	2	3/8"x1" Allen Head Flat Head Screw
13	RBP1329-1	1	Hydraulic Motor
13A	RBP-280	1	C Coupling 5/8"
14	RBP-281	1	C Coupling 1"
15	RBP-282	1	C Coupling Insert

Heavy Duty Gear Case - Bundle: SRB4100



Heavy Duty Gear Case

<u>Item</u>	<u>Part #</u>	<u>Qty.</u>	<u>Description</u>
1	RB-1071	1	Shield
2	RCP-7	2	Wear Sleeve - National J-1123
3	RB-1636PS	1	Rotor Shaft - Specify Length
4	RB-21851PS	1	Anti-Wrap Shield
5	RB-290	1	Gear Case
6	RB-21987	1	Alignment Plate
7	RCP-6	2	Grease Seal - National 416294
8	RBP-904	2	Cup - Timken #27620
9	RBP-907	2	Cone - Timken # 27689
10	RB-1010PS	1	Hub
11	RBP-1068	10	1/2" x 2 1/4" Rd. HD Rivet
12	RB-1056	1	Ring Gear (Mates with RB-1055PS)
13	24	15	3/8" Star Lock Washer
14	23	9	3/8" NF Hex Nut
15	RB-918	9	Stud
16	RB-1008PS	1	Cover, Gear Case
17	RBP-1002	1	Gasket
18	10563	6	3/8" NC x 3/4" Hex HD Cap Screw
19	RB-1086	1	Lock Cap - Rotor
20	10630	1	3/4" NC x 1 1/2" Cap Screw
21	RB-1087	1	Lock Tab
22	RB-665	1	Cap
23	RBP-1041	1	1/2" Magnetic Drain Plug
24	20017	6	5/8" NF Hex Nut
25	10793	6	5/8" Lock Washer
26	RB-289	6	Stud, Torque Tube to Gear Case
26	RB-1826	1	Tube, Dipstick (not shown)
26	RB-1827	1	Dipstick (not shown)

Standard Bevel Gear Group

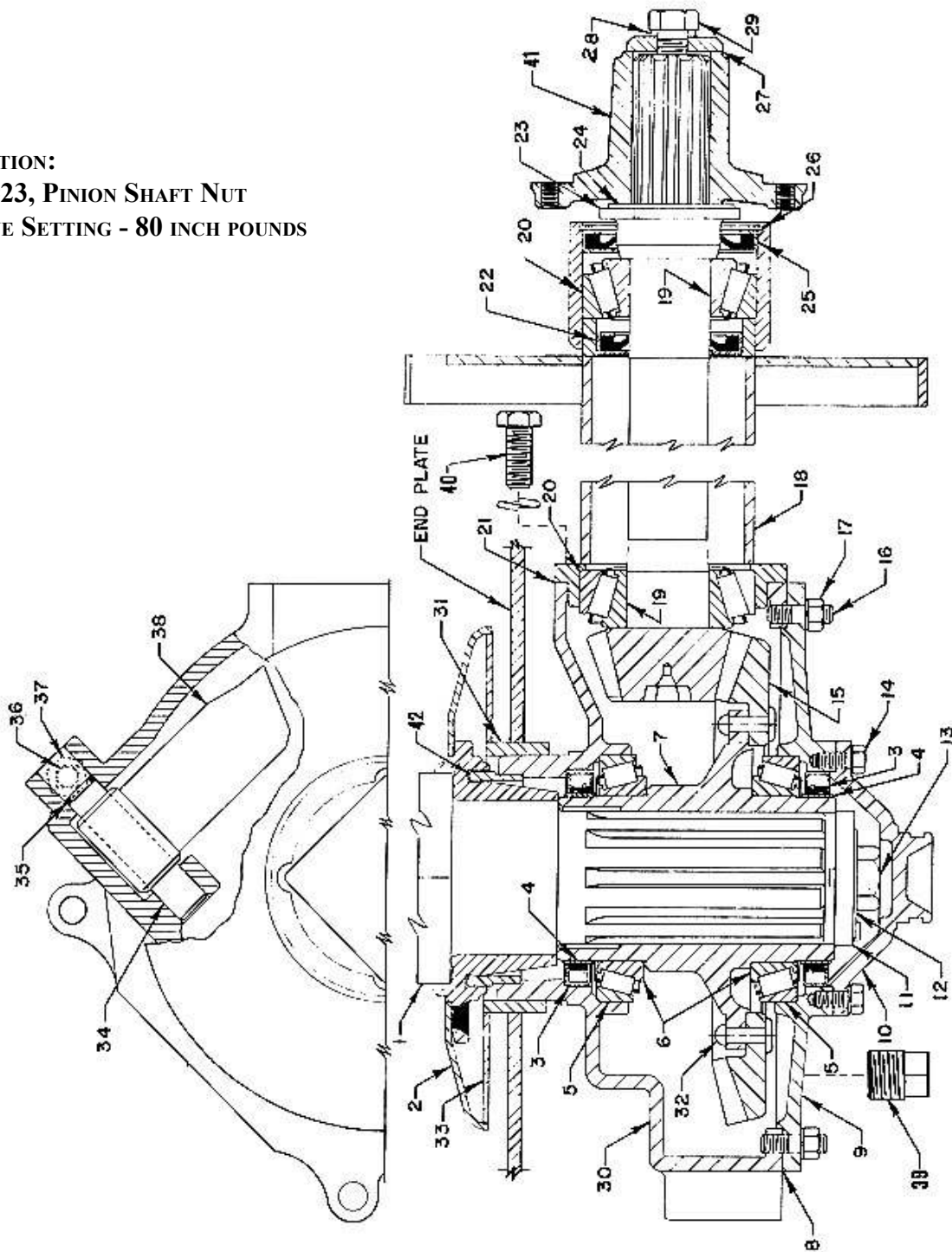
"A" & "B" Drive (4-5 Belt 1 1/2" Pinion Shaft) only

Bundle: SRB4200

ATTENTION:

ITEM #23, PINION SHAFT NUT

TORQUE SETTING - 80 INCH POUNDS



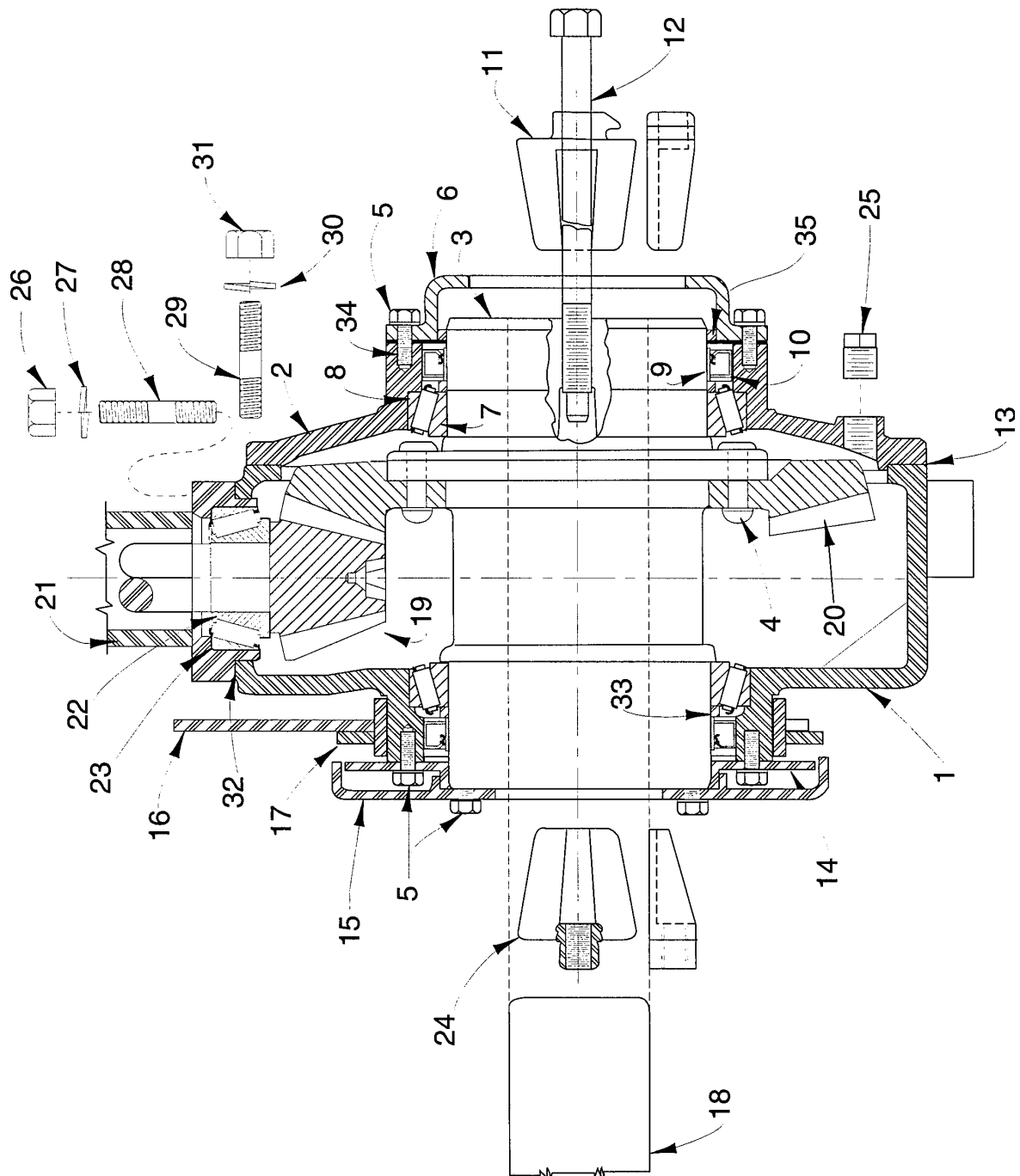
Standard Bevel Gear Group Parts List**"A" & "B" Drive (4-5 Belt 1/2" Pinion Shaft) Only****Bundle No. SRB4200**

<u>Item</u>	<u>Part #</u>	<u>Description</u>	<u>Item</u>	<u>Part #</u>	<u>Description</u>
1	RB-990PS	Rotor Shaft	23	RB-840	Nut, Pinion Shaft
2	RB-21851	Anti-Wrap Shield	24	RB-922	Washer, Pinion Shaft Nut
3	RCP-6	Grease Seal - National 416294	25	RBP-925	Grease Seal - Garlock 63X1357 (National 416267)
4	RCP-7	Wear Sleeve - National J-1123	27	RB-1088	Cap, Pinion Shaft
5	RBP-904	Bearing Cup - Timken 27620	28	10793	5/8" Lock Washer
6	RBP-907	Bearing Cone - Timken 27689	29	RBP-992	5/8"-11 NC x 1 1/2" Cap Screw
7	RB-663PS	Hub	30	RB-662	Gear Case
8	RBP-1003	Cover Gasket	31	RB-21987	Alignment Plate
9	RB-664	Outer Cover	32	RBP-1067	7/16" x 1 1/2" Rd. Hd. Rivet
10	RB-665	Cap	33	RB-1852	Anti-Wrap Seal
11	RB-1086	Rotor Shaft Cap	34	RB-667	Pin, Dog
12	RB-1087	Lock Tab	35	RBP-1050	"O" Ring - National # 622711
13	10630	3/4"-10 NC x 1 3/4" Cap Screw	36	10503	7/16" x 1 1/2" Sq. Hd. Set Screw
14	10691	3/8"-16 NC x 3/4" Cap Screw	37	20037	7/16" Hex Jam Nut
14	63	3/8" Star Washer	38	RB-2680	Dog, Stop
15	RB-935	Pinion Shaft	39	RBP-1041	Drain Plug
15	RB-934	Ring Gear	40	10587	1/2" NC x 1 1/2" Cap Screw
16	RB-918	Stud	40	10791	1/2" Lock Washer
17	23	3/8" NF Nut	41	RB-271PS	Splined Hub
17	24	3/8" Lock Washer	42	RB-1071	Shield
18	RB-2666	Torque Tube		RB-1826	Tube, Dipstick (not shown)
19	RBP-905	Brg. Cone - Timken HM-803145		RB-1827	Dipstick (not shown)
20	RBP-903	Brg. Cup - Timken HM-803110		RBP-1039	Grease Fitting - Alemite #1650 (not shown)
21	RBP-1004	Torque Tube Gasket		RB-889	Tube-Grease Fitting (not shown)
22	RBP-924	Grease Seal - Garlock 62X787 (National 473444)		RBP-938	Breather (not shown)

"RB" Heavy Duty Tiller Gear Case Square Hub

Bundle No. SRB4700 (L.H.), Bundle No. SRB4900 (R.H.)

Dual Drive Only



"RB" Heavy Duty Tiller Gear Case Square Hub

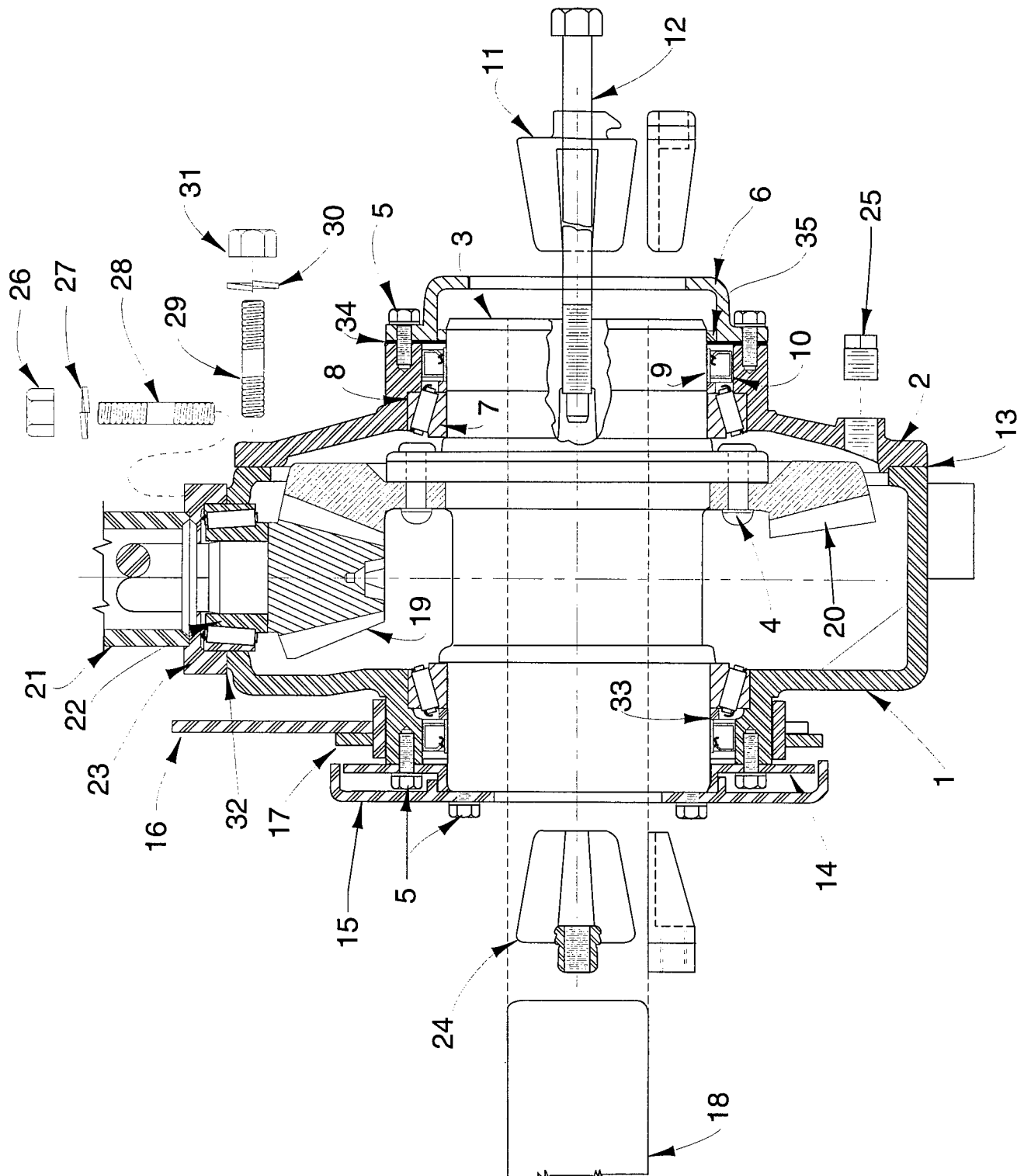
Bundle No. SRB4700 (R.H.) (Dual Drive Only)

<u>Item</u>	<u>Part #</u>	<u>Qty.</u>	<u>Description</u>	<u>Item</u>	<u>Part #</u>	<u>Qty.</u>	<u>Description</u>
1	RB-16	1	Gear Case	19	RB-1055PS	1	Pinion Gear & Shaft
2	RB-18PS	1	Cover, Gear Case	20	RB-1056	1	Ring Gear
3	RB-98PS	1	Hub - Ring Gear	21	RB-2171	1	Torque Tube, L.H.
4	D-48	20	1/2" x 2" Button Head Rivet (Special)	21	D-2423	1	Torque Tube, R.H. (Dual Drive ONLY)
5	10563	12	3/8" NC x 3/4" Long Cap Screw	22	RBP-906	1	Cone - Timken HM-803149
5	10800	12	Lock Washer (for above Screw)	23	RBP-903	1	Cup - Timken HM-803110
6	D-37PS	1	Cover	24	D-4PS	2	Wedge (Threaded Only)
7	RB-426	2	Cone - Timken #36690	25	RBP-1041	1	Drain Plug
8	RB-427	2	Cup - Timken #36620	26	20017	6	5/8" NF Hex Nut
9	RB-429	2	Wear Sleeve National J-1140	27	10793	6	5/8" Lock Washer
10	RB-428	2	Grease Seal National 416476	28	RB-289	6	Stud, Torque Tube to Gear Case
11	D-5PS	2	Wedge (Drilled Only)	29	RB-918	9	Stud, Cover
12	RB-2126	2	Bolt, Wedges	30	24	9	3/8" Star Lock Washer
13	RBP-1002	1	Gasket, Cover	31	23	9	3/8" NF Hex Nuts
14	RB-21633	1	Anti-Wrap Plate (Replaces RB-1580)	32	RBP-1004	1	Torque Tube Gasket
15	RB-21581	1	Anti-Wrap Cover		RB-1826	1	Tube, Dipstick (not shown)
16			End Plate, Housing		RB-1827	1	Dipstick (not shown)
17	D-2420	1	Support Flange	33	D-38	2	Spacer, Wear Sleeve
18	D-426PS	1	Rotor Shaft (For Single Drive ONLY) D-426PS - 6' D-427PS - 7', Etc.	34	RB-1629	1	Seal Retainer
18	D-476PS	1	Rotor Shaft (For Dual Drive ONLY) D-476PS - 12' D-477PS - 13', Etc.	35	RB-1634	1	Seal Ring

"D" Tiller Gear Case

Bundle: SD4105 (L.H.)

Complete with Torque Tube



"D" Tiller Gear Case Parts List

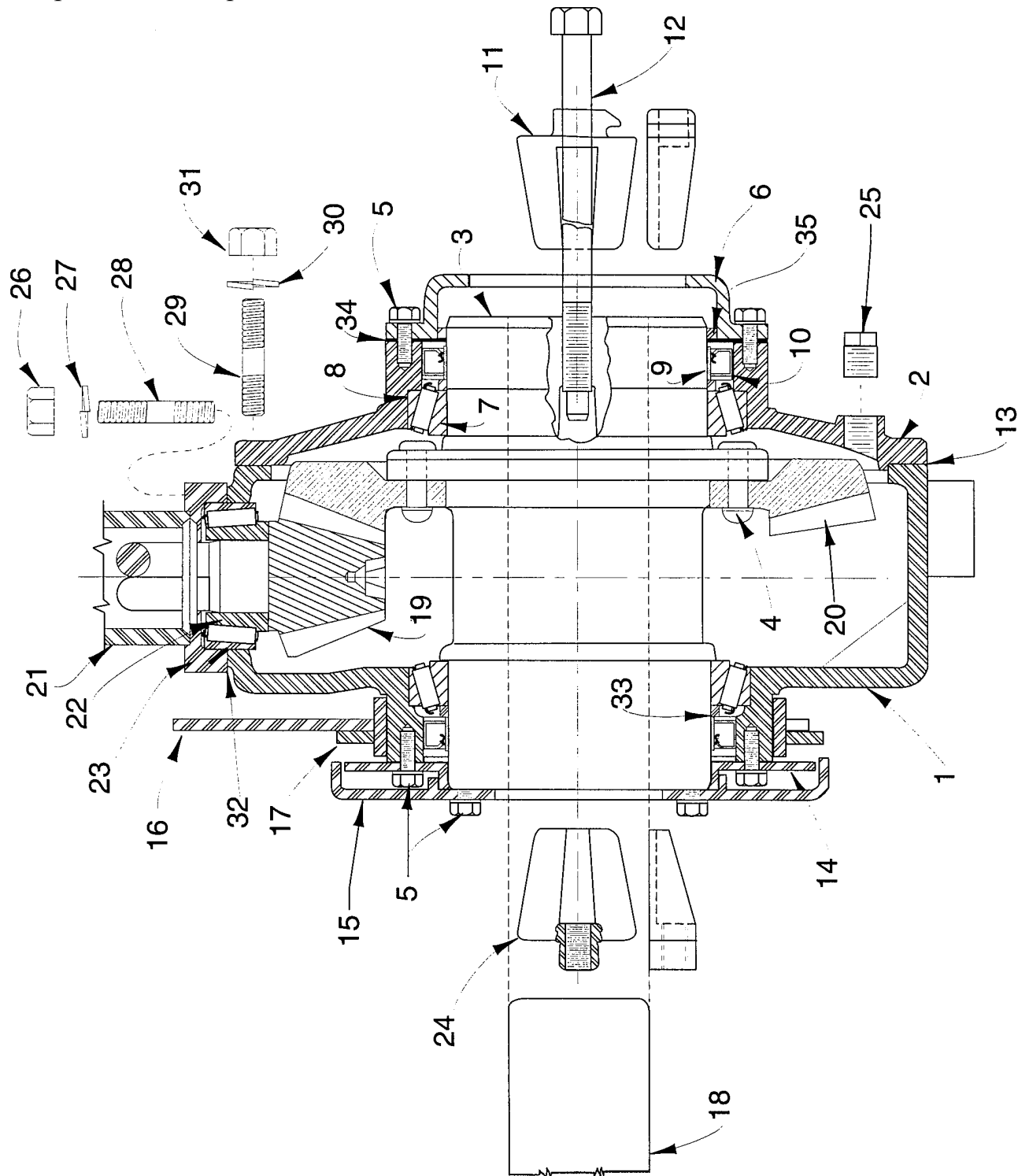
Bundle No. SD4105

Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	D-54A	1	Gear Case	19	D-50PS	1	Pinion Gear & Shaft
2	D-55B	1	Cover, Gear Case	20	D-49	1	Ring Gear
3	D-35PS	1	Hub, Ring Gear	21	D-2095	1	Torque Tube, R.H. (Dual Drive ONLY)
4	D-48	20	1/2" x 2" Button Head Rivet (Special)	21	D-2091	1	Torque Tube, L.H.
5	10563	12	3/8" NC x 3/4" Long Cap Screw	22	L-163	1	Cone - Timken 5356
5	10800	12	Lock Washer (for above Screw)	23	L-162	1	Cup - Timken 5335
6	D-37PS	1	Cover	24	D-4PS	2	Wedge (Threaded Only)
7	RB-426	2	Cone - Timken #36690	25	RBP-1041	1	Drain Plug
8	RB-427	2	Cup - Timken #36620	26	20017	6	5/8" NF Hex Nut
9	RB-429	2	Wear Sleeve - National J-1140	27	10793	6	5/8" Lock Washer
10	RB-428	2	Grease Seal - National 416476	28	D-92	6	Stud, Torque Tube to Gear Case
11	D-5PS	2	Wedge (Drilled Only)	29	L-27	9	Stud, Cover
12	RB-2126	2	Bolt, Wedges	30	10791	9	1/2" Lock Washer
13	D-36	1	Gasket	31	10781	9	1/2" NC Hex Nut
14	RB-21633	1	Anti-Wrap Plate (Replaces RB-1580)	32	RBP-1004	1	Torque Tube Gasket
15	RB-21581	1	Anti-Wrap Cover	33	D-38	2	Spacer, Wear Sleeve
16			End Plate, Housing		RB-1826	1	Tube, Dipstick (not shown)
17	D-2420	1	Support Flange		RB-1827	1	Dipstick (not shown)
18	D-426PS	1	Rotor Shaft (For Single Drive ONLY) (D-426PS - 6', D-427PS - 7', Etc.)	34	RB-1629	1	Seal Retainer
18	D-476PS	1	Rotor Shaft (For Dual Drive ONLY) (D-476PS - 12', D-477PS - 13', Etc.)	35	RB-1634	1	Seal Ring

"D" Tiller Gear Case

Bundle: SD5105 (L.H.)

Complete with Torque Tube



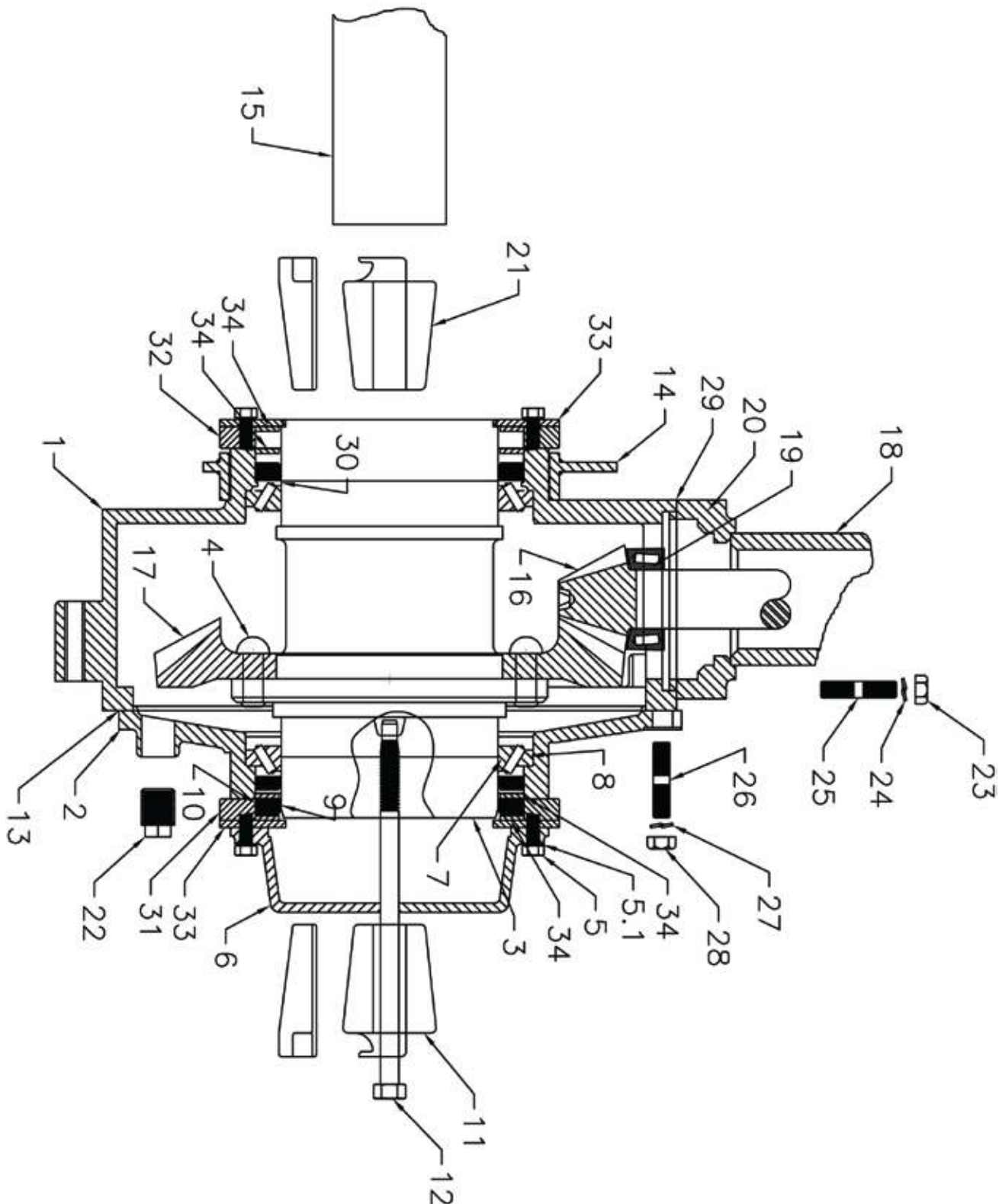
"D" Tiller Gear Case Parts List

Bundle No. SD5105

Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	D-94PS	1	Gear Case	19	D-50PS	1	Pinion Gear & Shaft
2	D-95PS	1	Cover, Gear Case	20	D-49	1	Ring Gear
3	D-35PS	1	Hub, Ring Gear	21	D-2097L	1	Torque Tube, L.H.
4	D-48	20	1/2" x 2" Button Head Rivet (Special)	21	D-2097R	1	Torque Tube, R.H.
5	10563	12	3/8" NC x 3/4" Long Cap Screw	22	RBP-5088	1	Cone - Timken 55176
5	10800	12	Lock Washer (for above Screw)	23	RBP-5087	1	Cup - Timken 55437
6	D-37PS	1	Cover	24	D-4PS	2	Wedge (Threaded Only)
7	RB-426	2	Cone - Timken #36690	25	RBP-1041	1	Drain Plug
8	RB-427	2	Cup - Timken #36620	26	20017	6	5/8" NF Hex Nut
9	RB-429	2	Wear Sleeve - National J-1140	27	10793	6	5/8" Lock Washer
10	RB-428	2	Grease Seal - National 416476	28	D-92	6	Stud, Torque Tube to Gear Case
11	D-5PS	2	Wedge (Drilled Only)	29	L-27	9	Stud, Cover
12	RB-2126	2	Bolt, Wedges	30	10791	9	1/2" Lock Washer
13	D-36	1	Gasket	31	10781	9	1/2" NC Hex Nut
14	RB-21633	1	Anti-Wrap Plate (Replaces RB-1580)	32	D-658	1	Torque Tube Gasket
15	RB-21581	1	Anti-Wrap Cover	33	D-38	2	Spacer, Wear Sleeve
16			End Plate, Housing		RB-1826	1	Tube, Dipstick (not shown)
17	D-2420	1	Support Flange		RB-1827	1	Dipstick (not shown)
18	D-426PS	1	Rotor Shaft (For Single Drive ONLY) (D-426PS - 6', D-427PS - 7', Etc.)	34	RB-1629	1	Seal Retainer
18	D-476PS	1	Rotor Shaft (For Dual Drive ONLY) (D-476PS - 12', D-477PS - 13', Etc.)	35	RB-1634	1	Seal Ring

New Style Double Seal Gear Box

SD5105, SDV5105, & SD5106 Series



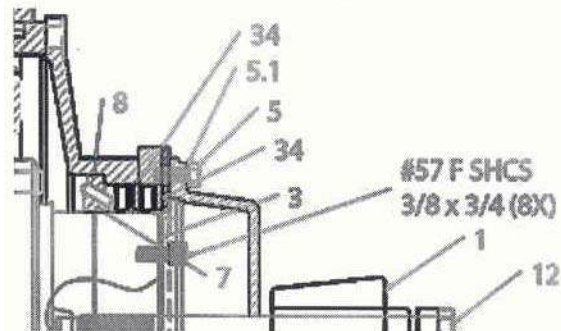
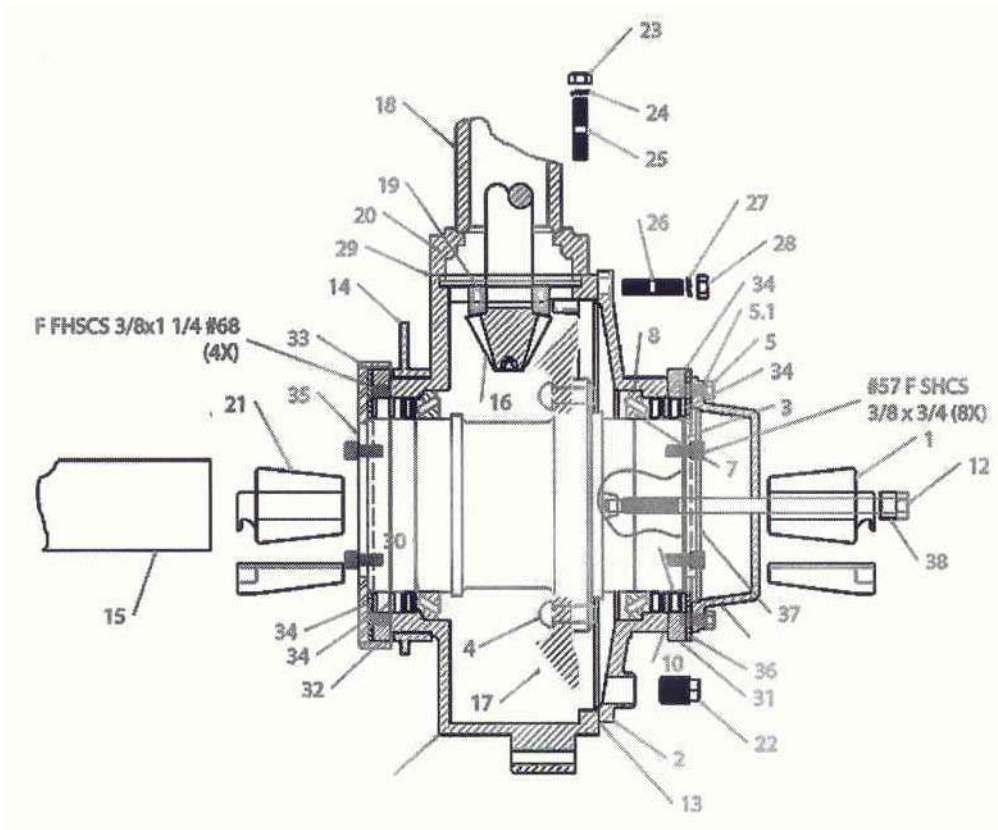
New Style Double Seal Gear Box

SD5105, SDV5105, & SD5106 Series

Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	D-94-4PS	1	Gear Case	19	RBP-5088	1	Cone Timken #55437
2	D-95PS	1	Cover Gear Case	20	RBP-5087	1	Cup Timken #55176
3	D35PS	1	Hub Ring Gear	21	D-4PS	2	Wedge (Threaded Only)
4	D-48	18	1/2" x 2" Button Head Rivet (Special)	22	RBP-1041	2	Drain Plug
5	10563	8	F HHCS 3/8 NC x 1 3/4	23	20017	6	5/8" NF Hex Nut
5.1	10800	8	Lock Washer (for above screw)	24	10793	6	5/8" Lock Washer
6	D-37PS	1	Cover	25	D-92	6	Stud Tork Tube to Gear Case
7	RB-426	2	Cone Timken #36690	26	L-27	9	Stud Cover
8	RB-427	2	Cup Timken #36620	27	10791	9	1/2" Lock Washer
9	RB-429	4	Wear Sleeve National J-1140	28	10781	9	1/2" NC Hex Nut
10	RB-428	4	Grease Seal National 416476	29	D-658	1	Torque Tube Gasket
11	D-5PS	2	Wedge (Drilled Only)	30	D-38	1	Spacer Wear Sleeve
12	RB-2126	2	Bolt Wedges	31	RB-31829-1	1	Spacer Double Seal Box (0.680 Thick)
13	D-36	1	Gasket	32	RB-31829	1	Spacer Double Seal Box (0.600 Thick)
14	D-2420	1	Support Flange	33	RB-1629-1	2	Seal Retainer Special
15	Rotor Shaft	1	Rotor Shaft	34	212	4	M. Felt Gasket (1/8 Thick)
16	DH-50PS	1	Pinion Gear & Shaft		RB-1826	1	Tube Dipstick (not shown)
17	DH-49	1	Ring Gear		RB-1827	1	Dipstick (not shown)
18	D-2097-1	1	Torque Tube Right Hand		D-2625	1	Oil Return (not shown)
18	D-2097-2	1	Torque Tube Left Hand				
18	D-2097-3	1	Torque Tube Right Hand Inside Drive				
18	D-2097-3	1	Torque Tube Left Hand Inside Drive				

New Style Double Seal Gear Box

SD5105-1 & SD5106-1 Series

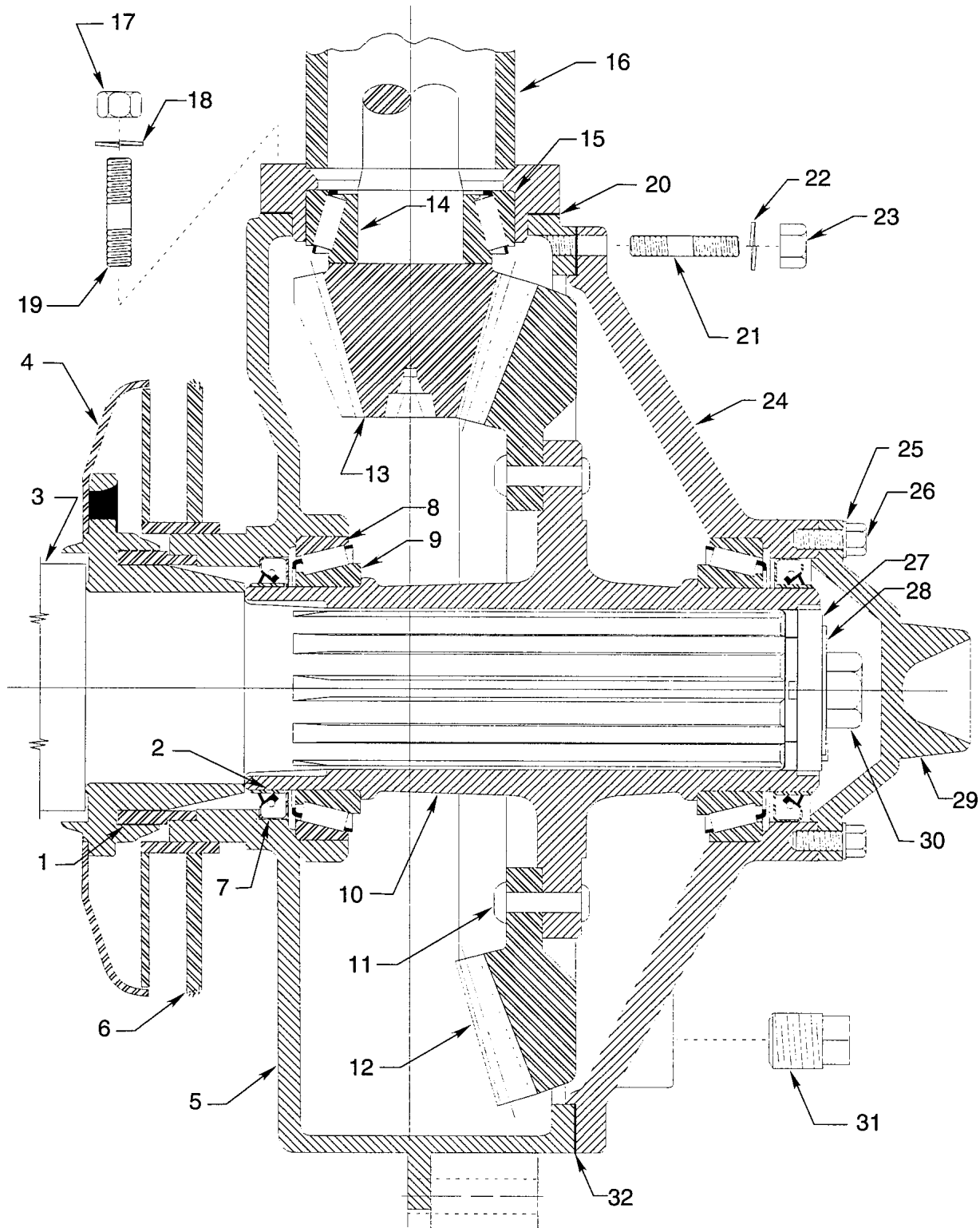


New Style Double Seal Gear Box**SD5105-1 & SD5106-1 Series**

Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	D-94PS	1	Gear Case	20	RBP-5087	1	Cup Timken #55176
2	D-95PS	1	Cover Gear Case	21	D-4PS	2	Wedge (Threaded Only)
3	D-35PS	1	Hub Ring Gear	22	RBP-1041	2	Drain Plug
4	D-48	18	1/2" x 2" Button Head Rivet (Special)	23	20017	6	5/8" NF Hex Nut
5	10563	8	F HHCS 3/8 NC x 1 3/4	24	10793	6	5/8" Lock Washer
5.1	10800	8	Lock Washer (for above screw)	25	D-92	6	Stud Tork Tube to Gear Case
6	D-37PS	1	Cover	26	L-27	9	Stud Cover
7	RB-426	2	Cone Timken #36690	27	10791	9	1/2" Lock Washer
8	RB-427	2	Cup Timken #36620	28	10781	9	1/2" NC Hex Nut
9	RB-429	4	Wear Sleeve National J-1140	29	D-658	1	Torque Tube Gasket
10	RB-428	4	Grease Seal National 416476	30	D-38	1	Spacer Wear Sleeve
11	D-SPS	2	Wedge (Drilled Only)	31	RB-31829-1	1	Spacer Double Seal Box (0.680 Thick)
12	RB-2126	2	Bolt Wedges	32	RB-31829	1	Spacer Double Seal Box (0.600 Thick)
13	D-36	1	Gasket	33	RB-1629-2	2	Seal Retainer Special
14	D-2420	1	Support Flange	34	212	4	M. Felt Gasket (1/8 Thick)
15	Rotor Shaft	1	Rotor Shaft	35	RB-32033	1	Anti-Wrap double seal inner
16	DH-50PS	1	Pinion Gear & Shaft	36	RB-1629-3	1	Seal Retainer
17	DH-49	1	Ring Gear	37	RB-32033-1	1	Anti-Wrap double seal outer
18	D-2097-1	1	Torque Tube Right Hand	38	RB-731	2	Sleeve idler shaft
18	D-2097-2	1	Torque Tube Left Hand		RB-1826	1	Tube Dipstick (not shown)
18	D-2097-3	1	Torque Tube Right Hand Inside Drive		RB-1827	1	Dipstick (not shown)
18	D-2097-3	1	Torque Tube Left Hand Inside Drive		D-2625	1	Oil Return (not shown)
19	RBP-5088	1	Cone Timken #55437				

Heavy Duty Gear Case ("D"Gears)

Bundle: SDB4040 (Includes Torque Tube)



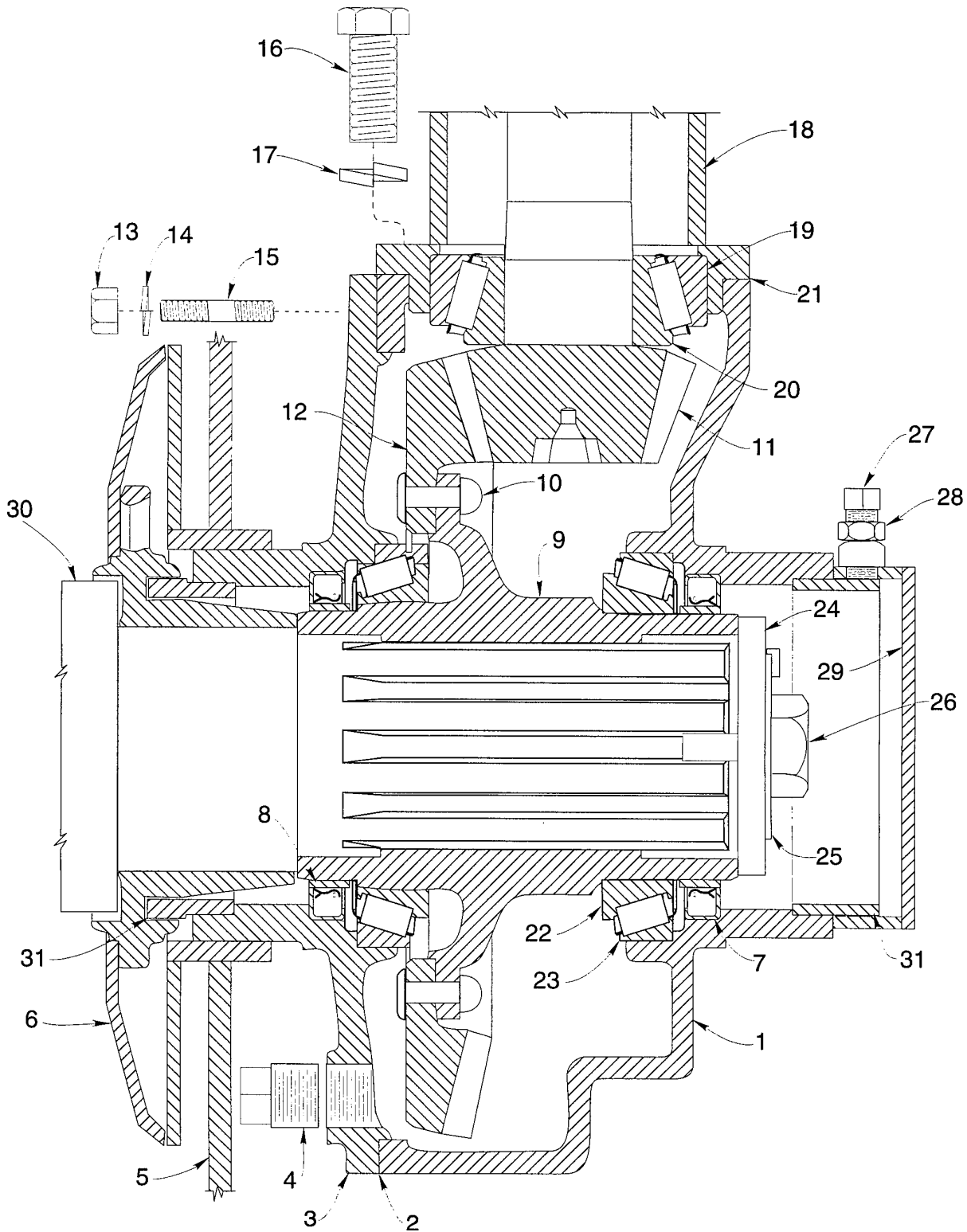
Heavy Duty Gear Case ("D" Gears)

Bundle No. SDB4040

<u>Item</u>	<u>Part #</u>	<u>Qty.</u>	<u>Description</u>
1	RB-1071	1	Shield
2	RCP-7	2	Wear Sleeve - National J-1123
3	RB-1636PS	1	Rotor Shaft (Specify Length)
4	RB-21851	1	Anti-Wrap Shield
5	DB-40A	1	Gear Case
6	RB-21987	1	Alignment Plate
7	RCP-6	2	Grease Seal - National 416294
8	RBP-904	2	Cup - Timken #27620
9	RBP-907	2	Cone - Timken #27689
10	DB-42PS	12	Hub
11	D-48	20	1/2" x 2" Button Head Rivet
12	D-49	1	Ring Gear
13	D-50PS	1	Pinion Gear & Shaft
14	L-163	1	Cone - Timken #5356
15	L-162	1	Cup - Timken #5335
16	D-2091	1	Torque Tube L.H.
17	20071	6	5/8" NF Hex Nut
18	10793	6	5/8" Lock Washer
19	RB-289	6	Stud, Torque Tube to Gear Case
20	RBP-1004	1	Gasket, Torque Tube
21	L-27	9	Stud, Cover
22	10791	9	1/2" Lock Washer
23	10781	9	1/2" NC Hex Nut
24	DB-41	1	Cover
25	24	6	3/8" Star Lock Washer
26	10563	6	3/8" NC x 3/4" Cap Screw
27	RB-1086	1	Lock Cap, Rotor
28	RB-1087	1	Lock Tab
29	RB-665	1	Cap
30	10629	1	3/4" NC x 1 1/2" Cap Screw
31	RBP-1041	1	Drain Plug
32	D-36	1	Gasket, Cover
	RB-1827	1	Dipstick (not shown)

Standard Duty Reverse Drive Gear Case

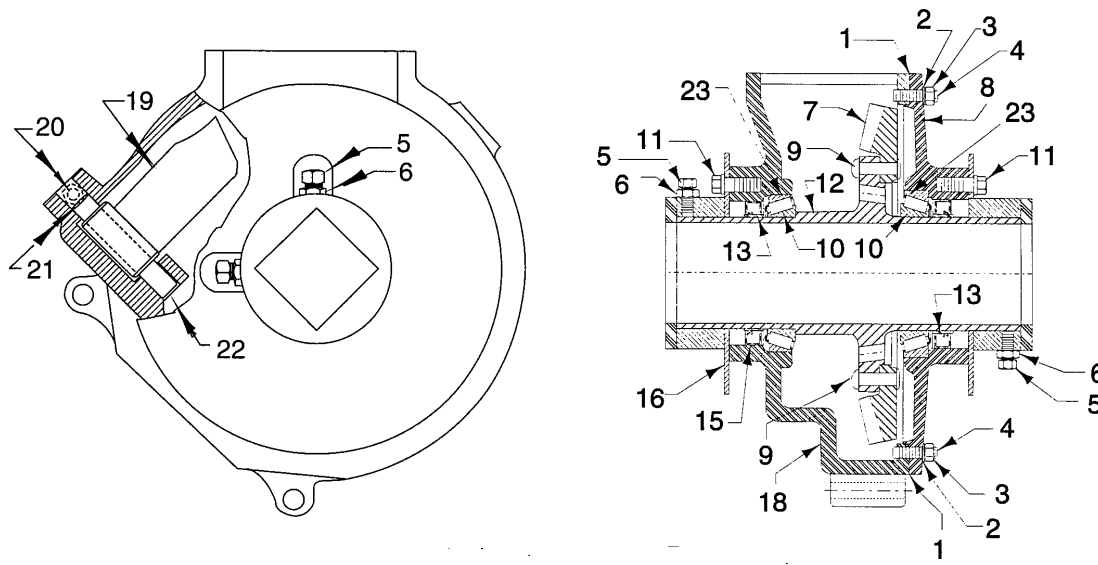
Bundle: SRB4699 (Includes Torque Tube)



Standard Duty Reverse Drive Gear Case

Bundle No. RB-4699

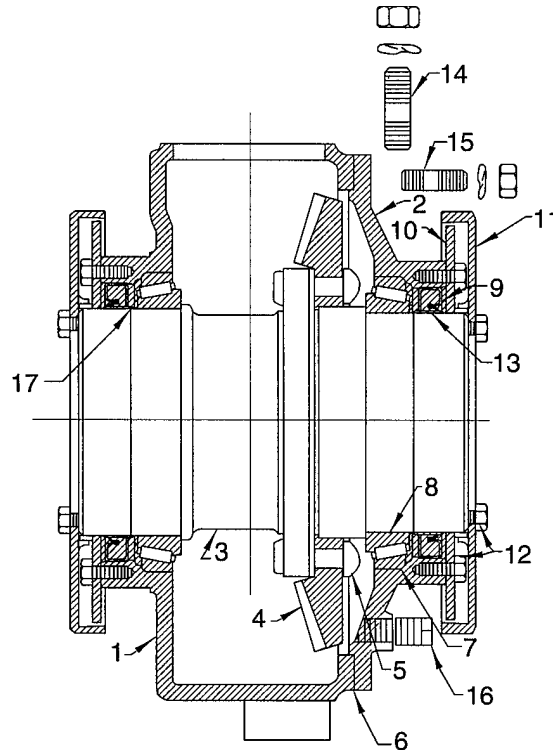
<u>Item</u>	<u>Part #</u>	<u>Qty.</u>	<u>Description</u>
1	RB-662	1	Gear Case
2	RBP-1003	1	Cover Gasket
3	RB-699	1	Cover
4	RBP-1041	1	Drain Plug
5	RB-21987		Alignment Plate
6	RB-21851	1	Anti-Wrap Shield
7	RCP-6	2	Grease Seal - National 416294
8	RCP-7	2	Wear Sleeve - National J-1123
9	RB-333PS	1	Hub
10	RB-1067		7/16" x 1 1/2" Rd. Head Rivet
11	RB-935PS	1	Pinion Shaft
12	RB-934	1	Ring Gear
13	23	8	3/8" NF Nut
14	24	8	3/8" Star Washer
15	RB-918	8	Stud
16	10586	6	1/2" NC x 1 1/4" Cap Screw
17	10791	6	1/2" Lock Washer
18	RB-2666	1	Torque Tube
19	RBP-903	1	Bearing Cup - Timken HM-803110
20	RBP-905	1	Bearing Cone - Timken HM-803145
21	RBP-1004	1	Torque Tube Gasket
22	RBP-907	2	Bearing Cone - Timken 27689
23	RBP-904	2	Bearing Cup - Timken 27620
24	RB-2213	1	Rotor Shaft Cap
25	RB-1087	1	Lock Tab
26	10629	1	3/4" NC x 1 1/2" Cap Screw
27	10565	1	3/8" NC x 1" Square Head Set Screw
28	10779	1	3/8" NC Lock Nut
29	RB-2881	1	Cap
30	RB-990	1	Rotor Shaft (Specify Length)
31	RB-1071	2	Shield

Standard Duty Vineyard Tiller Gear Case**"A" & "B" DRIVE (4 & 5 BELT ONLY)****Bundle No. SRB4500 • Complete with Torque Tube**

Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	RBP-1003	1	Gasket	12	RB-83PS	1	Hub
2	24	8	3/8" Star Lock Washer	13	RBP-1042	2	Wear Sleeve - National J-1124
3	23	8	3/8" NF Hex Nut	15	RBP-1043	2	Grease Seal - National 415991N
4	RB-918	8	Stud	16	SRB4730	2	Seal Disc & Cover
5		4	7/16" NC x 3/4" Lg. Sq. Hd. Set Screw	18	RB-86C	1	Gear Case
6	20037	4	7/16" NC Hex Jam Nut	19	RB-2680	1	Gear Brake
7	RB-934	1	Ring Gear (Mates with RB-935 Pinion)	20		1	7/16" x 1 1/2" Lg. Sq. Hd. Set Screw
8	RB-87A	1	Gear Case Cover	20	20037	1	7/16" Jam Nut
9	RBP-1067	12	7/16" x 1 1/2" Lg. Rivet	21	RBP-1050	1	"O" Ring - National 622711
10	RBP-1049	2	Cone - Timken L 217849	22	RB-667	1	Gear Brake Pin
11	10500	6	7/16" NC x 3/4" Lg. Hex Hd. Cap Screw	23	RBP-1048	2	Cup - Timken L 217810
11	10790	6	7/16" Star Lock Washer		RBP-1041	1	Drain Plug (not shown)

Heavy Duty Inside Drive Gear Case

Bundle No. SRB4800 (Complete w/Torque Tube)



Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	RB-16PS	1	Gear Case	11	RB-21581	2	Anti-Wrap Cover
2	RB-18	1	Gear Case Cover	12	10563	16	3/8" x 3/4" NC Cap Screw
3	RB-98PS	1	Hub, Ring Gear	12	24	16	Lock Washer
4	RB-1056	1	Ring Gear	13	RB-429	2	Wear Sleeve - National J-1140
5	D-48	20	1/2" x 2" Button Head Rivet	14	RB-289	6	Stud, Torque Tube to Gear Case
6	RBP-1002	1	Gasket	15	RB-918	9	Stud
7	RB-427	2	Cup - Timken 36620	16	RBP-1041	1	Drain Plug
8	RB-426	2	Cone - Timken 36690	17	D-38	2	Wear Sleeve Spacer
9	RB-428	2	Grease Seal - National 416476	18	23		3/8" NF Nut
10	RB-21633	2	Anti-Wrap Plate (Replaces RB-1580)				

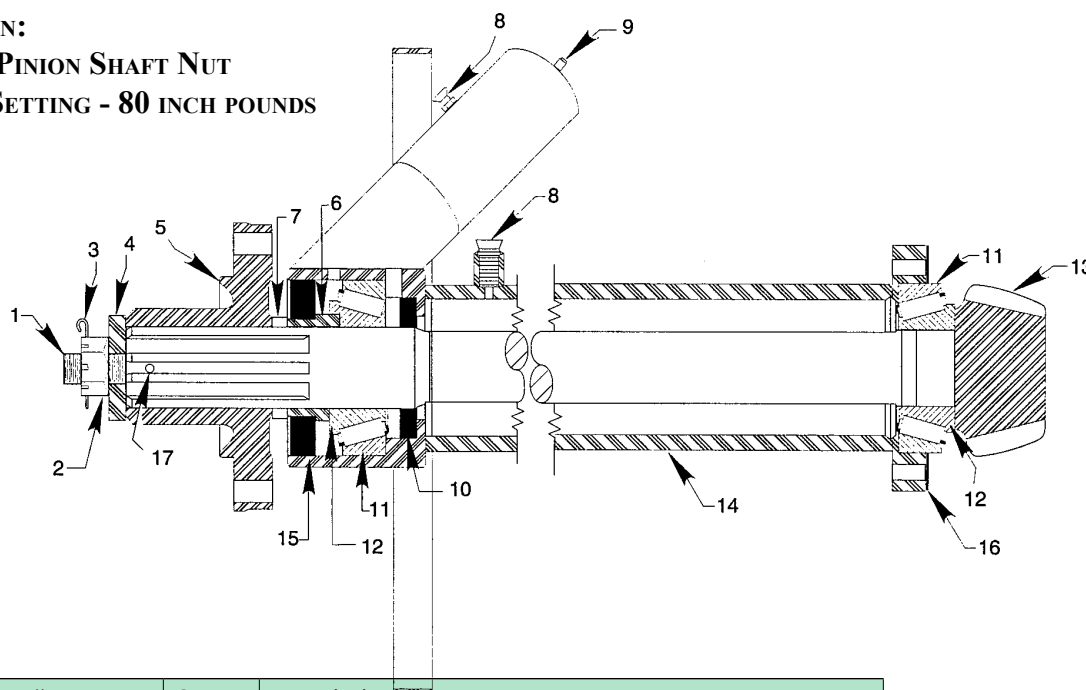
Heavy Duty Torque Tube

For SRB4100

ATTENTION:

ITEM #2, PINION SHAFT NUT

TORQUE SETTING - 80 INCH POUNDS



Item	Part #	Qty.	Description
1	RB-1041	1	Stud, Pinion Shaft
2	20015	1	3/4"-16 NF Slotted Nut
3	20016	1	3/16" x 1" Cotter Key
4	RB-173	1	Cap, Pinion Shaft
5	RB-127PS	1	Sheave Hub 1 3/4" - 10 Spline
6	RB-1020PS	1	Sleeve, Pinion Shaft Seal
7	RB-1021PS	1	Spacer, Pinion Shaft Sleeve
8	RBP-938	2	Breather - Alemite 301370
9	RBP-1039	1	Grease Fitting - Alemite 1650
10	RBP-913	1	Grease Seal - Garlock 63 x 922 (National 471141)
11	RBP-903	2	Bearing Cup - Timken HM 803110
12	RBP-906	2	Bearing Cone - Timken HM 803149
13	RB-1055PS	1	Pinion Gear & Shaft
14	RB-2171	1	Torque Tube, L.H.
15	RBP-925	1	Grease Seal - Garlock 63 x 1357 (National 416267)
16	RBP-1004	1	Gasket, Torque Tube
17	RB-1054	1	Pin, Pinion Shaft Stud

Bundles:

RB-1055PS Pinion & RB-1056 Ring Gear

This complete Torque Tube is included in Bundle #'s: SRB4100, SRB4700, SRB4900.

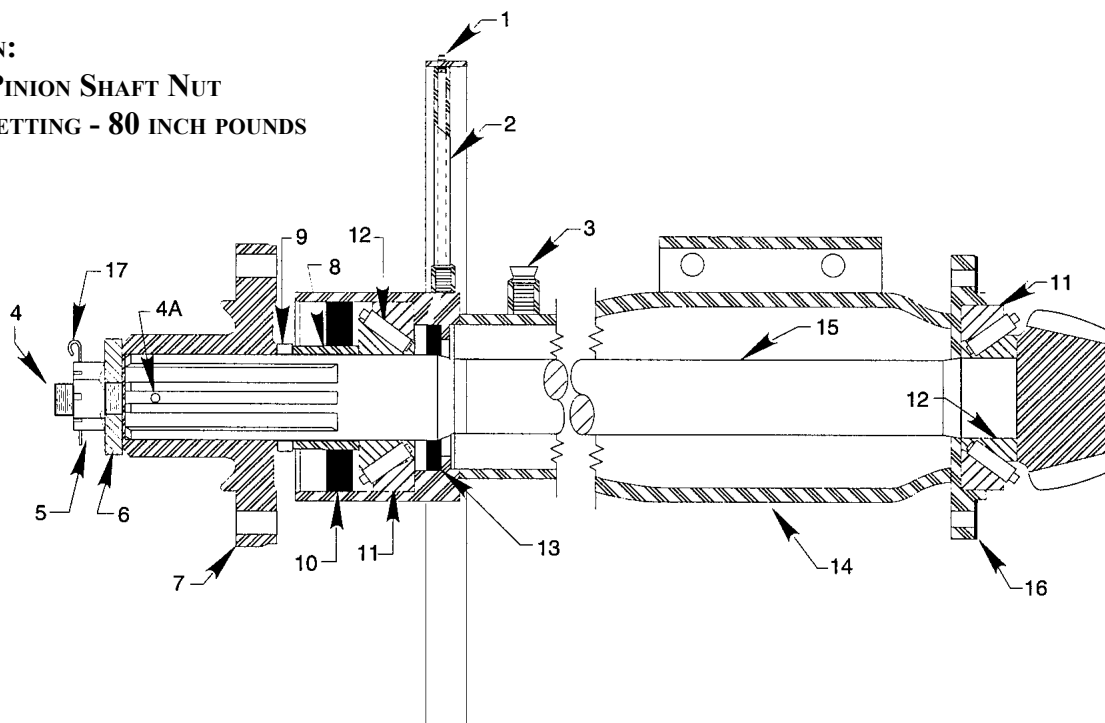
Torque Tube Parts List For SRB4800 Gear Box

Heavy Duty Vineyard Type (6 Belt - 1 3/4" Shaft)

ATTENTION:

ITEM #5, PINION SHAFT NUT

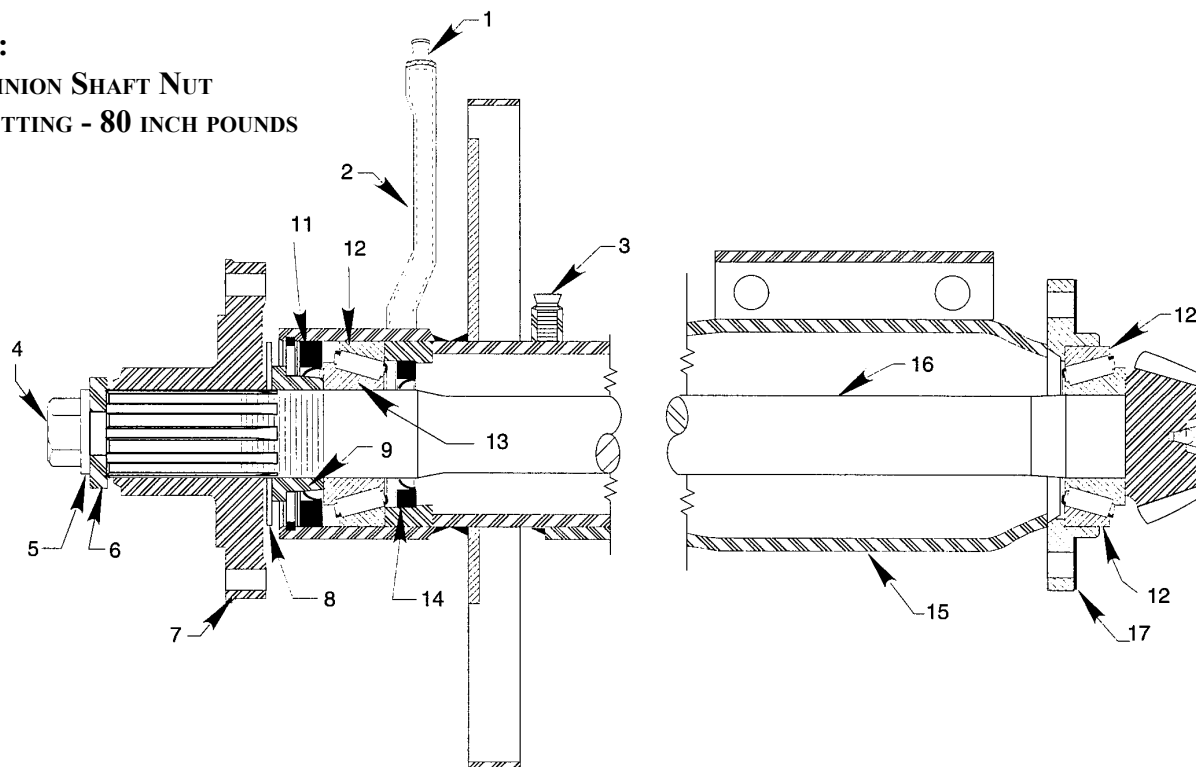
TORQUE SETTING - 80 INCH POUNDS



Item	Part #	Description
1	RBP-1039	Grease Fitting - Alemite 1650
2	RB-1053	Tube, Grease Fitting
3	RBP-938	Breather
4	RB-1041	Pinion Shaft Stud
4A	RB-1054	Pin, Pinion Shaft Stud
5	20015	3/4" NF Slotted Nut
6	RB-173	Pinion Shaft Cup
7	RB-127PS	Sheave Hub, 1 3/4" - 10 Spline
8	RB-1020PS	Sleeve, Pinion Shaft Grease Seal
9	RB-1021PS	Bushing, Pinion Shaft Sleeve
10	RBP-925	Grease Seal - Garlock 63 x 1357 (National 416267)
11	RBP-903	Bearing Cup - Timken HM 803110
12	RBP-906	Bearing Cone - Timken HM 803149
13	RBP-913	Grease Seal - Garlock 63 x 922 (National 471141)
14	RB-21727	Torque Tube
15	RB-1055PS	Pinion Gear & Shaft, 1 3/4" - 10 Spline
16	RBP-1004	Gasket, Torque Tube
17	20016	3/16" x 1" Cotter Key

Torque Tube Parts List for SRB4500

Standard Duty Vineyard Type (5 Belt - 1 1/2" Shaft)

ATTENTION:**ITEM #4, PINION SHAFT NUT****TORQUE SETTING - 80 INCH POUNDS**

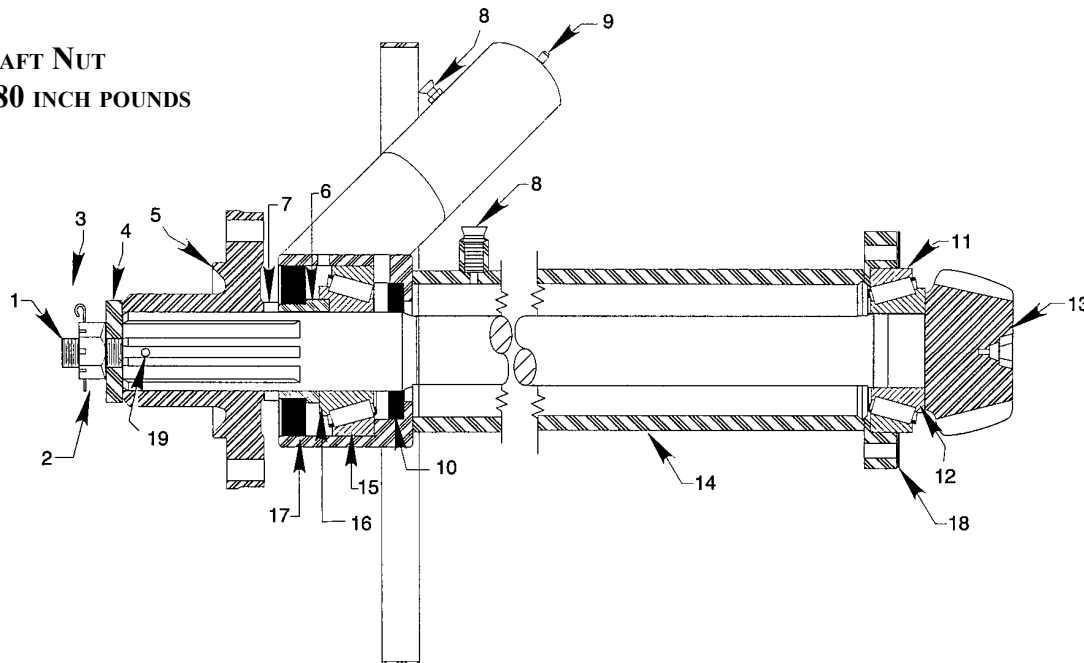
Item	Part #	Description
1	RBP-1039	1/8" Grease Fitting, Straight - Alemite 1650
2	RB-889	Tube, Grease Fitting
3	RBP-938	Breather
4	10608	5/8"-11 NC x 1 1/2" Cap Screw
5	10793	5/8" Lock Washer
6	RB-1088	Pinion Shaft Cup
7	RB-271PS	Sheave Hub, 1 1/2" - 10 Spline
8	RB-922	Washer, Pinion Shaft Nut
9	RB-840	Pinion Shaft Nut
10		
11	RBP-925	Grease Seal - Garlock 63 x 1357 (National 416267)
12	RBP-903	Bearing Cup - Timken HM 803110
13	RBP-905	Bearing Cone - Timken HM 803145
14	RBP-924	Grease Seal - Garlock 63 x 787 (National 473444)
15	RB-2200	Torque Tube
16	RB-935	Pinion Gear & Shaft, 1 1/2" - 10 Spline
17	RBP-1004	Gasket, Torque Tube

"D" Torque Tube Parts List for SD4105 and DB4040

ATTENTION:

ITEM #2, PINION SHAFT NUT

TORQUE SETTING - 80 INCH POUNDS



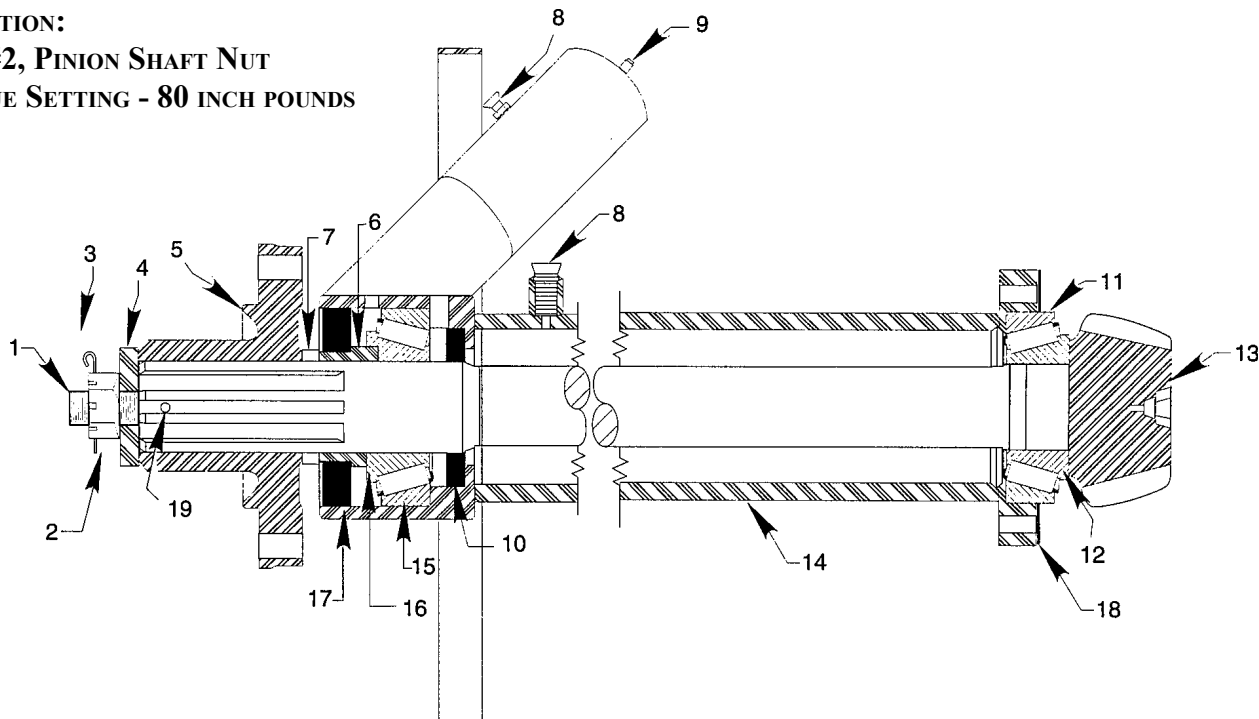
Item	Part #	Description
1	RB-1041	Stud, Pinion Shaft
2	20015	3/4"-16 NF Slotted Nut
3	20016	3/16" x 1" Cotter Key
4	RB-173	Cap, Pinion Shaft
5	RB-127PS	Sheave Hub, 1 3/4" - 10 Spline
6	RB-1020PS	Sleeve, Pinion Shaft
7	RB-1021PS	Spacer, Pinion Shaft Sleeve
8	RBP-938	Breather - Alemite 301370
9	RBP-1039	Grease Fitting - Alemite 1650
10	RBP-913	Grease Seal - Garlock 63 x 922 (National 471141)
11	L-162	Bearing Cup - Timken 5335
12	L-163	Bearing Cone - Timken 5356
13	D-50PS	Pinion Gear & Shaft
14	D-2091	Torque Tube, L.H.
14	D-2095	Torque Tube, R.H. (Dual Drive)
15	RBP-903	Bearing Cup - Timken HM 803110
16	RBP-906	Bearing Cone - Timken HM 803149
17	RBP-925	Grease Seal - Garlock 63 x 1357 (National 416267)
18	RBP-1004	Gasket, Torque Tube
19	RB-1054	Pin, Pinion Shaft Stud

"D" Torque Tube Parts List for SD5105, SDV5105, & SD5106

ATTENTION:

ITEM #2, PINION SHAFT NUT

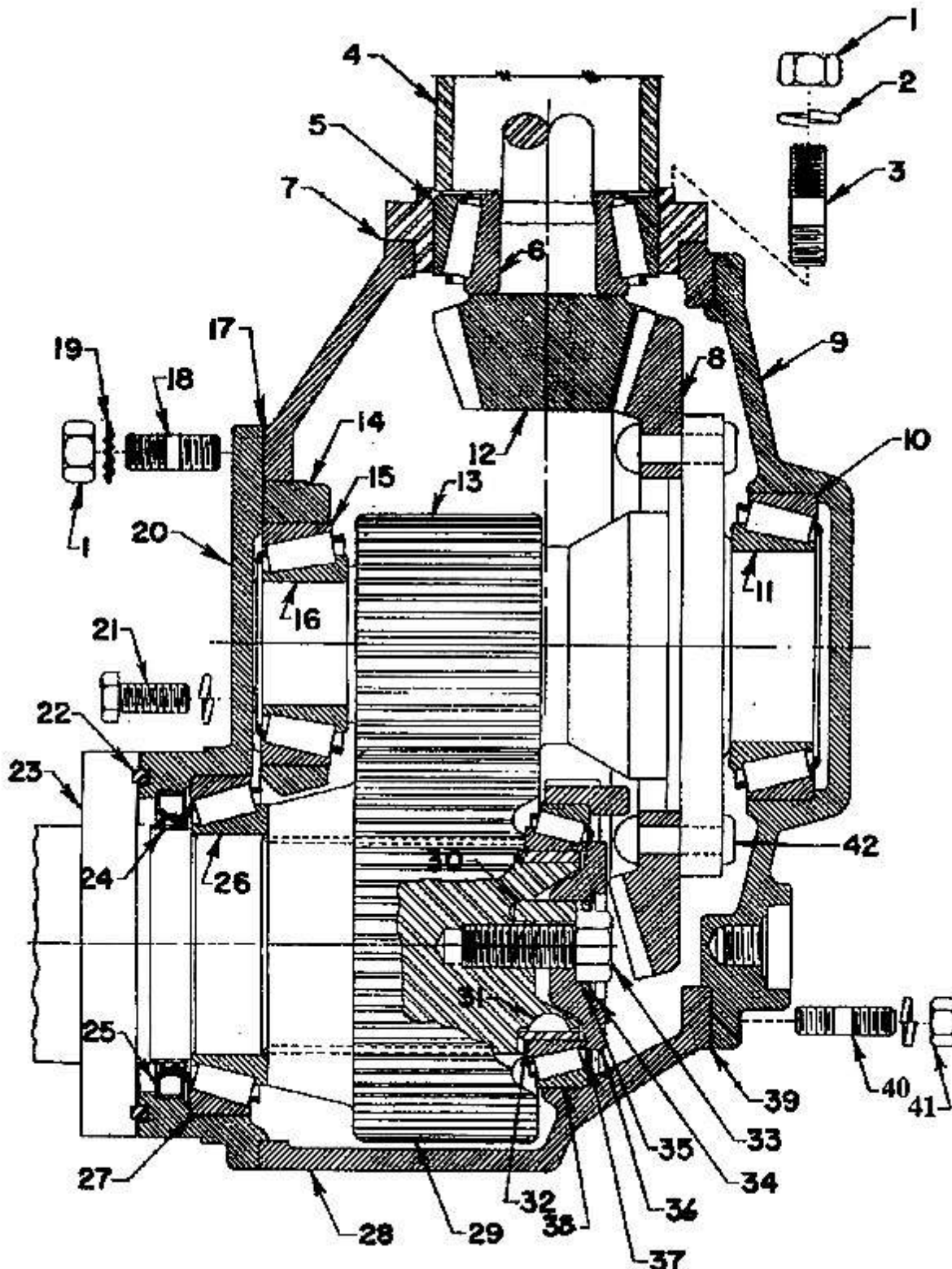
TORQUE SETTING - 80 INCH POUNDS



Item	Part #	Description
1	RB-1041	Stud, Pinion Shaft
2	20015	3/4"-16 NF Slotted Nut
3	20016	3/16" x 1" Cotter Key
4	RB-173	Cap, Pinion Shaft
5	RB-127PS	Sheave Hub, 1 3/4" - 10 Spline
6	RB-1020PS	Sleeve, Pinion Shaft
7	RB-1021PS	Spacer, Pinion Shaft Sleeve
8	RBP-938	Breather - Alemite 301370
9	RBP-1039	Grease Fitting - Alemite 1650
10	RBP-913	Grease Seal - Garlock 63 x 922 (National 471141)
11	RBP-5088	Bearing Cone - Timken 55176
12	RBP-5087	Bearing Cup - Timken 55437
13	DH-50PS	Pinion Gear & Shaft
14	D-2097L	Torque Tube, L.H.
14	D-2097R	Torque Tube, R.H. (Dual Drive)
15	RBP-903	Bearing Cup - Timken HM 803110
16	RBP-906	Bearing Cone - Timken HM 803149
17	RBP-925	Grease Seal - Garlock 63 x 1357 (National 416267)
18	D-658	Gasket, Torque Tube
19	RB-1054	Pin, Pinion Shaft Stud

Model "L" Tiller - R.H. Gear Case Assembly

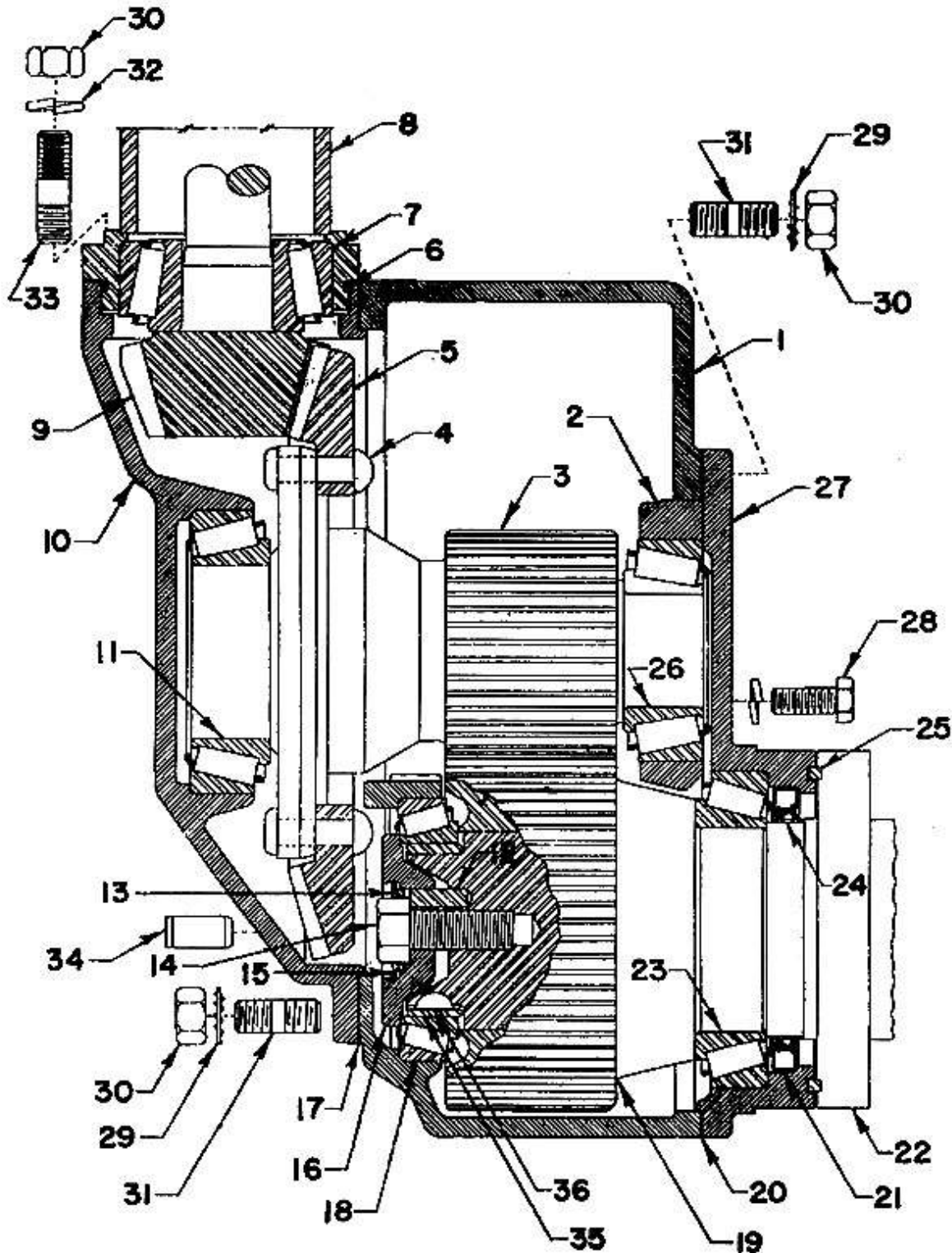
Bundle No. L-4300



Model "L" Tiller - R.H. Gear Case Assembly

<u>Item</u>	<u>Part #</u>	<u>Description</u>	<u>Item</u>	<u>Part #</u>	<u>Description</u>
1	20017	5/8" NF Hex Nut	24	L-173	Wear Sleeve - National J-1130
2	10793	5/8" Lock Washer	25	L-172	Grease Seal - National 416891
3	RB-289	Stud	26	L-168	Cone - Timken JM 720249
4	L-2024	Torque Tube	27	L-169	Cup - Timken JM 720210
5	L-162	Cup - Timken 5335	28	L-15	Gear Case
6	L-163	Cone - Timken 5356	29	L-293	Spur Gear
7	L-179	Torque Tube Gasket	30	L-31	Lock Pin
8	RB-1056	Ring Gear	31		3/16" x 3/4" Woodruff Key
9	L-16	Outer Cover	32	L-154APS	Sleeve for L-154
10	L-166	Cup - Timken JHM 516810	33	10631	3/4" NC Cap Screw - 2" Long
11	L-167	Cone - Timken JHM 516849	34	L-174	Retaining Ring Truarc N5000-181
12	RB-1055PS	Pinion Gear	35	L-32	Lock Tab
13	L-2081PS	Spur Pinion Gear	36	L-20	Cap
14	L-18	Bearing Seat	37	L-170	Cone - Timken JM 716649
15	L-164	Cup - Timken JH 307710	38	L-171	Cup - Timken JM 716610
16	L-165	Cone - Timken JH 307749	39	L-176	Gasket, Outer Gear Case Cover
17	L-175	Gasket, Inner Gear Case Cover	40	L-27	Stud
18	L-9	Stud	41	10781	1/2" NC Hex Nut
19		5/8" Internal Star Washer	41	10791	1/2" Lock Washer
20	L-60	Inner Cover	42	RBP-1068	1/2" x 2 1/4" Round Head Rivet (10 used)
21	10769	1/2" x 1 1/4" Bolt		L-13A	Inspection Plate (not shown)
21	10791	Lock Washer		L-181	Gasket for L-13A (not shown)
22	L-33	Dust Ring		RB-1827	Dipstick (not shown)
23	L-1230A	Splined Stub Shaft			

Model "L" TILLER - Dual Drive
LH Gear Case Assembly



Model "L" Tiller - Dual Drive**L.H. Gear Case Assembly**

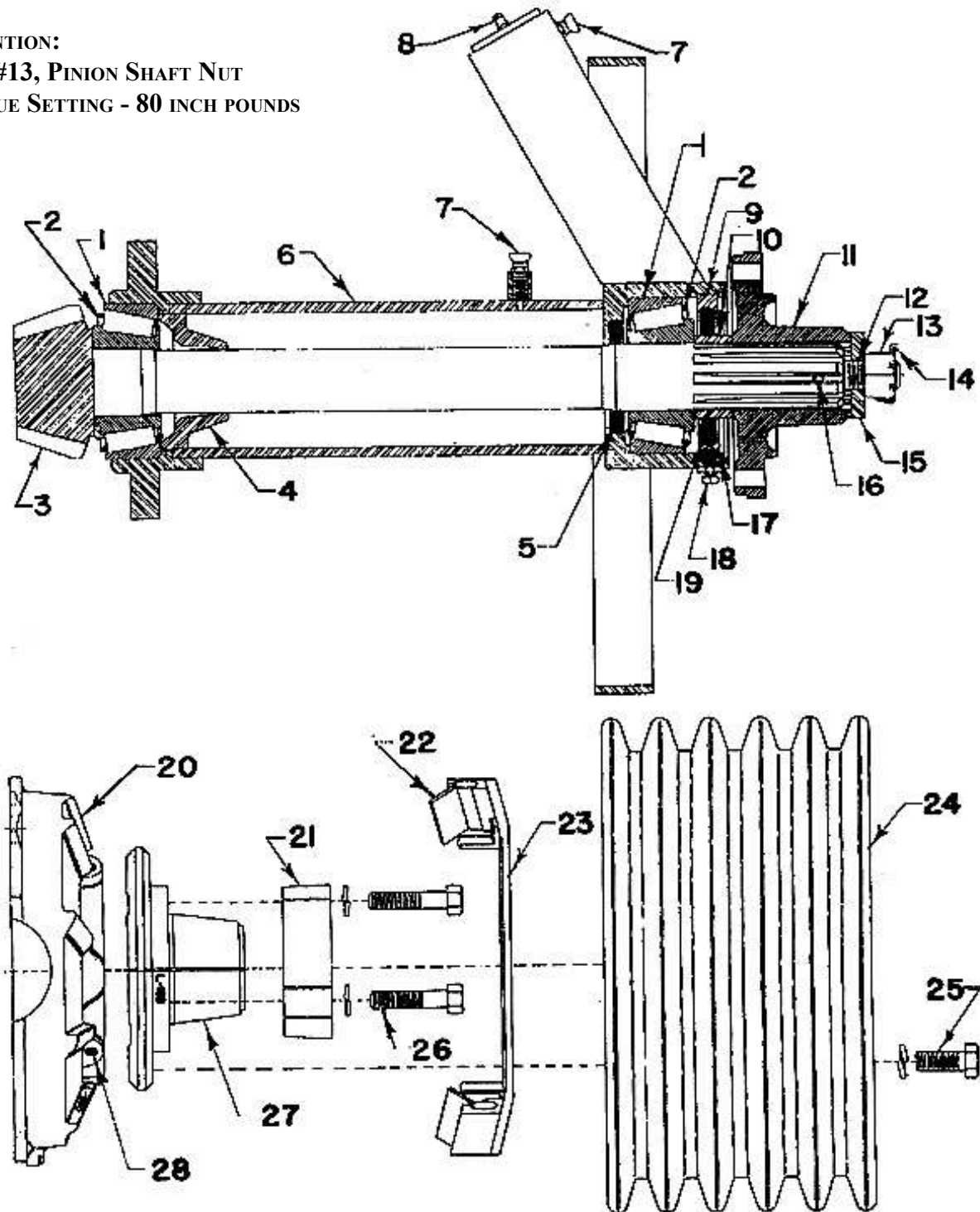
Item	Part #	Description	Item	Part #	Description
1	L-37	L.H. Gear Case	21	L-172	Grease Seal - National 416891
2	L-18	Bearing Seat	22	L-2130PS	Splined Stub Shaft
3	L-2081PS	Spur Pinion Gear	23	L-168	Cone - Timken JM720249
4	RBP-1068	1/2" x 2 1/4" Button Head Rivet (10 used)	23	L-169	Cup - Timken JM 720210
5	RB-1056	Ring Gear	24	L-173	Wear Sleeve - National J-1130
6	L-1377	"O" ring - National 623024	25	L-33	Dust Ring
7	L-162	Cup - Timken 5335	26	L-164	Cup - Timken JH 307710
7	L-163	Cone - Timken 5356	26	L-165	Cone - Timken JH 307749
8	L-21310	Torque Tube L.H.	27	L-60PS	Inner Cover
9	RB-1055PS	Pinion Gear	28	10586	1/2" NC x 1 1/4" Cap Screw
10	L-36PS	Outer Cover	28	10791	1/2" Lock Washer
11	L-166	Cup - Timken JHM 516810	29		5/8" Internal Star Washer
11	L-167	Cone - Timken JHM 516849	30	20017	5/8" NF Hex Nut
12	L-31	Lock Pin	31	L-9	Stud
13	L-32	Lock Washer	32	10793	5/8" Lock Washer
14	10631	3/4" NC x 2" Cap Screw	33	RB-289	Stud
15	L-174	Retaining Ring Truarc N5000-181	34	L-1382	Dowel Pin
16	L-20	Cap	35	L-154APS	Sleeve for L-2130PS
17	L-1309	Cover Gasket, Outer	36		3/16" x 3/4" Woodruff Key
18	L-170	Cone - Timken JM 716649		L-13A	Inspection Plate (not shown)
18	L-171	Cup - Timken JM 716610		L-14	Filler Plate (not shown)
19	L-293	Spur Gear		L-181	Gasket for L-13 & L-14 (not shown)
20	L-175	Cover Gasket, Inner		RB-1827	Dipstick (not shown)

"L" Torque Tube Assembly - LH & RH

ATTENTION:

ITEM #13, PINION SHAFT NUT

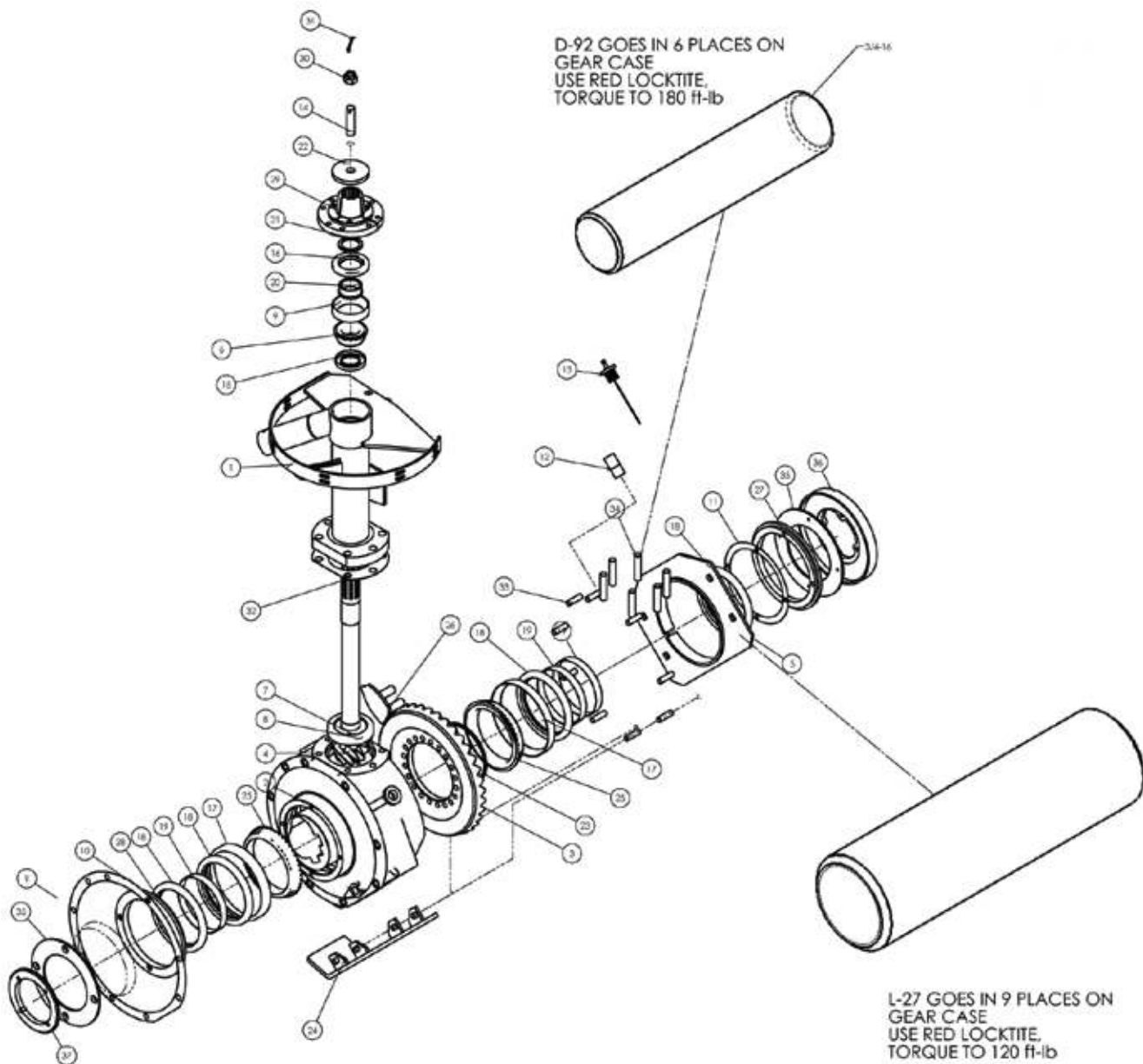
TORQUE SETTING - 80 INCH POUNDS



"L" Torque Tube Assembly - LH & RH

Item	Part #	Qty.	Description	Item	Part #	Qty.	Description
1	L-162	2	Cup - Timken 5335	19	RBP-925	1	Seal - Garlock 63 x 1357 National 416267
2	L-163	2	Cone - Timken 5365	20	L-1550	1	Base, Anti-Backup L.H. Dual Drive Only
3	RB-1055PS	1	Pinion Gear & Shaft	21	L-159	1	Collar, Split Hub L.H. Dual Drive Only
4	L-11	1	Rubber Shield	22	L-21553	2	Dog Assembly Anti-Backup L.H. Dual Drive Only
5	RBP-913	1	Seal - Garlock 63 x 922 (National 47741)	23	L-21552	1	Disc. Assembly Anti-Backup L.H. Dual Drive Only
6	L-2024	1	Torque Tube R.H.	24	RB-2610	1	6 Groove 10" Dia. Sheave <i>NOTE: Cannot be used w/Anti-Backup</i>
6	L-21310	1	Torque Tube L.H. Dual Drive Only	24	RB-2612	1	6 Groove, 12" Dia. Sheave
7	RBP-938	2	Breather Alemite 301370	24	RB-2615	1	6 Groove, 15" Dia. Sheave
8	RBP-1039	1	Grease Zirk Alemite 1650	25	10586	8	1/2" N.C. x 1 1/4" Cap Screw
9	L-23	1	Grease Seal Seat	25	10791	8	1/2" Lock Washer
10	RB-1020PS	1	Sleeve	26	67	3	7/16" N.C. x 2" Cap Screw
11	RB-127PS	1	Sheave Hub 1 3/4 - 10 Spline	26	10790	3	7/16" Lock Washer
12	RB-1041	1	Stud, Pinion Shaft	27	L-158	1	Split Hub L.H. (Dual Drive Only)
13	20015	1	3/4"-16 NF Slotted Nut	28	68	3	5/16" x 1/2" Allen Head Set Screw
14	20016	1	3/16" x 1" Cotter Key				
15	RB-173	1	Cap, Pinion Shaft	Bundles:			
16	RB-1054	1	Pin RB-1055PS		SL4304		R.H. Torque Tube Complete
17	L-161	1	Retaining Ring Spirolox RRT-425		SL4305		L.H. Torque Tube Complete
18	65	1	5/16" x 1" Square Head Set Screw				
18	66	1	5/16" Jam Nut				

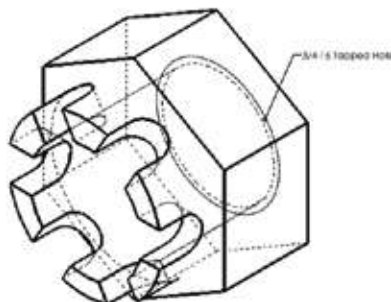
SDH-5105 Gear Case



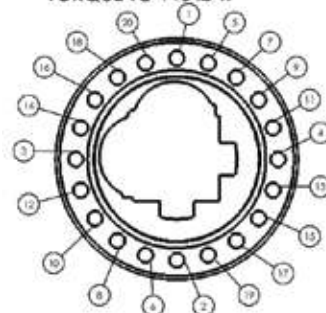
SDH-5105 Gear Case

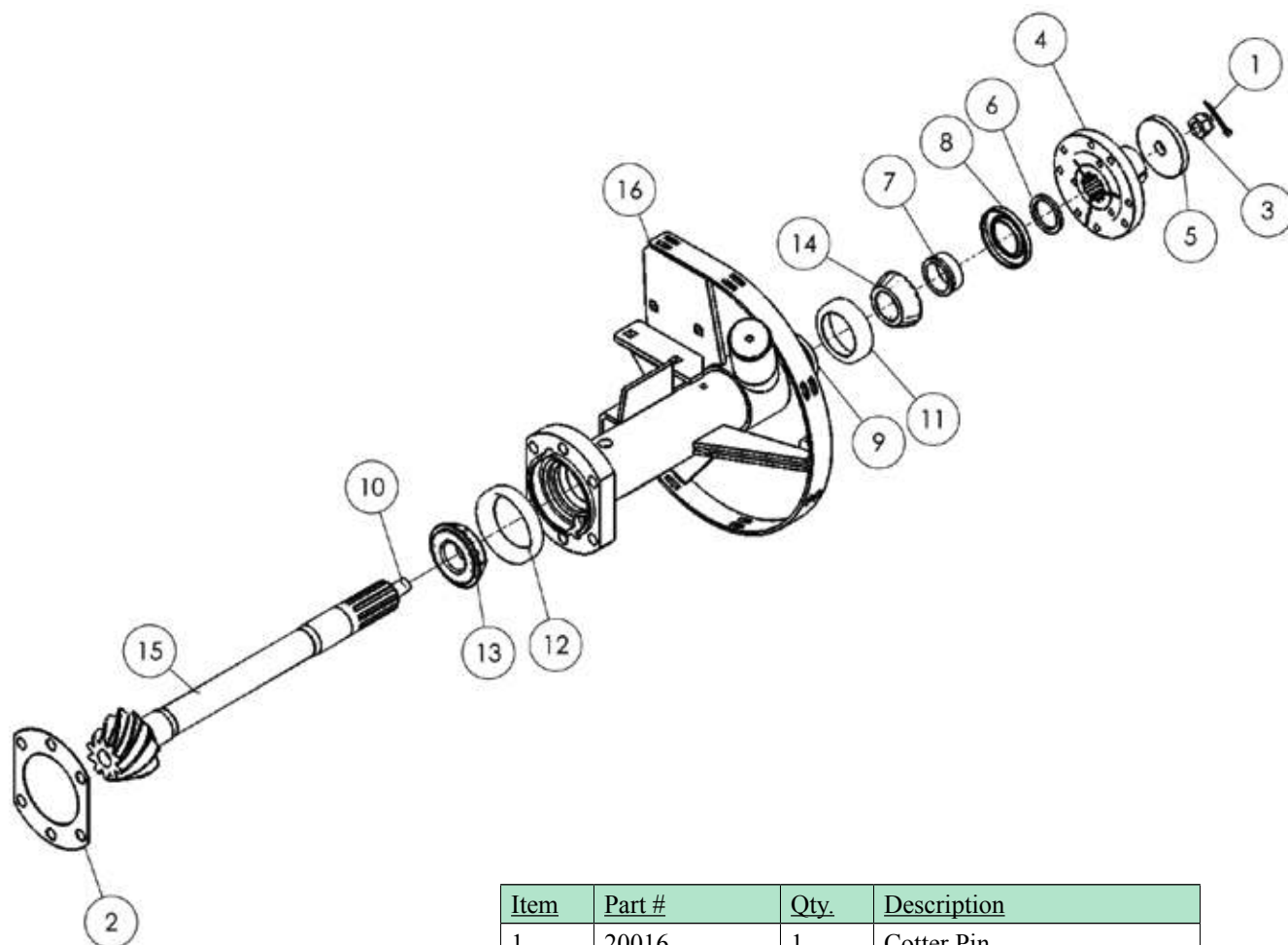
Item	Part #	Qty..	Description	Item	Part #	Qty.	Description
1	D-2097-2	1	Torque Tube L/H SD5105-1	21	RB-1021	1	P/S Bushing .250 Hvy Pinion
2	D-35PS	1	P/S Hub Ring Gear	22	RB-173-1	1	Cap Pinion Shaft
3	D-49	1	Ring Gear 180 HP D Gear Case	23	D-38	1	Spacer, Wear Sleeve
4	D-50	1	Pinion Shaft 180 HP	24	D-2080	1	Skid Shoe, D Gear Case
5	D-2420	1	Support Flange D Gear Case	25	RB-426PS	2	B Brg Cone Timken
6	RBP-906	1	B Brg Cone Timken	26	D-2625	1	Oil Return, SD5105 & SD5106 Gear Case
7	RBP-5088	1	B Brg Cone Timken	27	RB-31829	1	Spacer Double Seal .600 Inside
8	RBP-5087	1	B Brg Cup Timken	28	RB-31829-1	1	Spacer Double Seal .680 Outside
9	RBP-903	1	B Brg Cup Timken	29	RB-127PS	1	P/S Hub 1 3/4 in. 10 Spline
10	D-36	1	Gasket Cover SD5105 & SD5106	30	20015	1	Castle Nut
11	D-659	1	Gasket Anti-Wrap	31	20016	1	Cotter Pin
12	RB-1826	1	Tube Dipstick	32	D-658	1	Gasket Gear Case
13	RB-1827	1	Dipstick	33	L-27	9	F 1/2 x 1 7/8 NF to NC
14	1064	1	3/4-16 Stud	34	D-92	6	F Stud 5/8 NC & NF x 3
15	RBP-913	1	B Seal Natl 471141	35	RB1629-2	2	Inner Seal Anti-Wrap
16	RBP-925	1	B Seal Grs 63 x 1357	36	RB-32033	1	Anti-Wrap Cover, Inner
17	RB-427	2	B Brg Cup Timken	37	RB-32033-1	1	Anti-Wrap Double Seal Outer
18	RB-428	4	B Seal National 416476	38	D-94PS	1	P/S D Gear Case
19	RB-429	3	B Wear Sleeve J1140	39	D-95PS	1	Cover Gear Case
20	RB-1020	1	P/S Sleeve .875 Hvy Pinion				

CASTLE NUT SHOWN IN 4: 1
TORQUE TO 85 in-lb
INSERT PIN AFTER DRILLING HOLE
IN 1064



D-35 SHOWN IN 1: 2
USE RED LOCKTITE AND TORQUE
BOLTS (#138PS) IN THE SHOWN
PATTERN. BOLTS MUST BE TORQUED
TWICE!
TORQUE TO 140 lb-ft

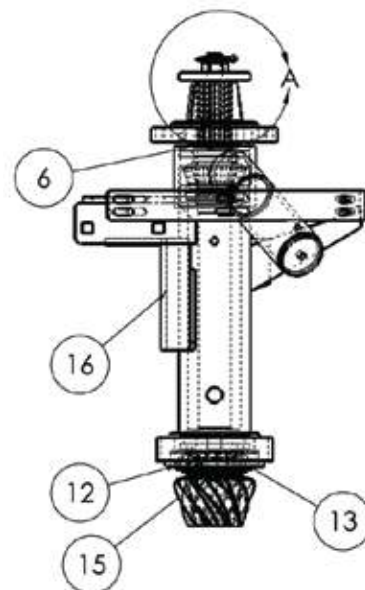
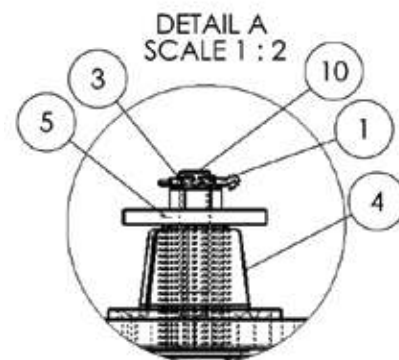


SDH-5105 Gear Case / Pinion Section

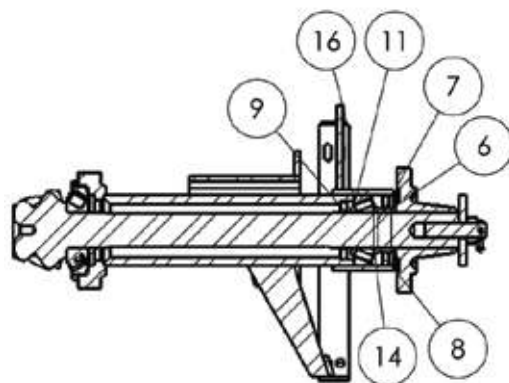
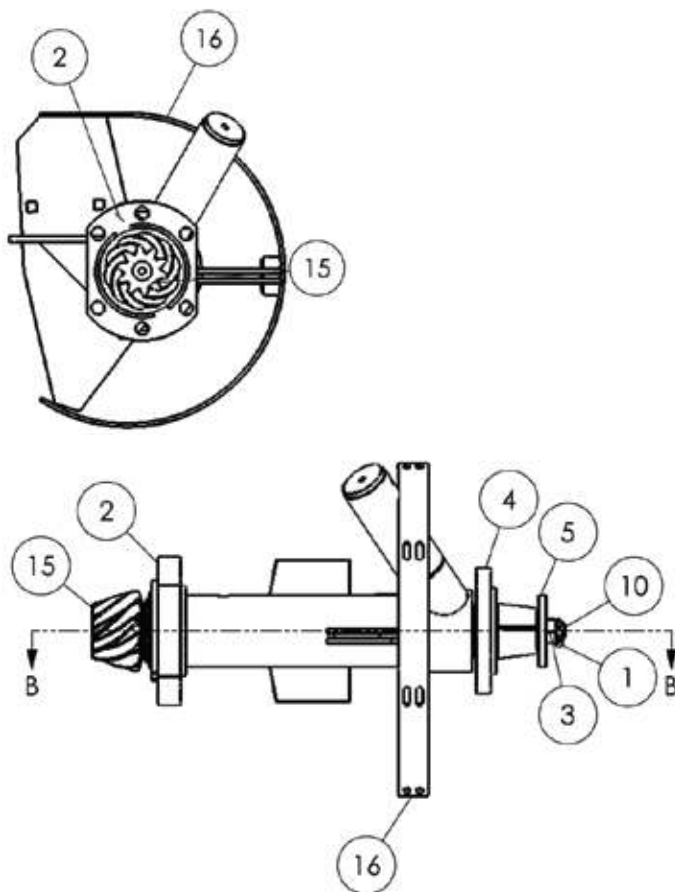
Item	Part #	Qty.	Description
1	20016	1	Cotter Pin
2	D-658	1	Gasket Gear Case
3	20015	1	Castle Nut
4	RB-127PS	1	Hub, Sheave - DD
5	RB-173-1	1	Cap Pinion Shaft
6	RB-1021	1	P/S Bushing .250 Hvy Pinion
7	RB-1020	1	Sleeve
8	RBP-925	1	B Seal Grs 63 x 1357
9	RBP-913	1	B Seal Natl 471141
10	1064	1	3/4-16 Stud
11	RBP-903	1	B Brg Cup Timken
12	RBP-5087	1	B Brg Cup Timken
13	RBP-5088	1	B Brg Cone Timken
14	RBP-906	1	B Brg Cone Timken
15	D-50	1	Pinion shaft
16	D-2097-2	1	Torque Tube L/H SD5105-1

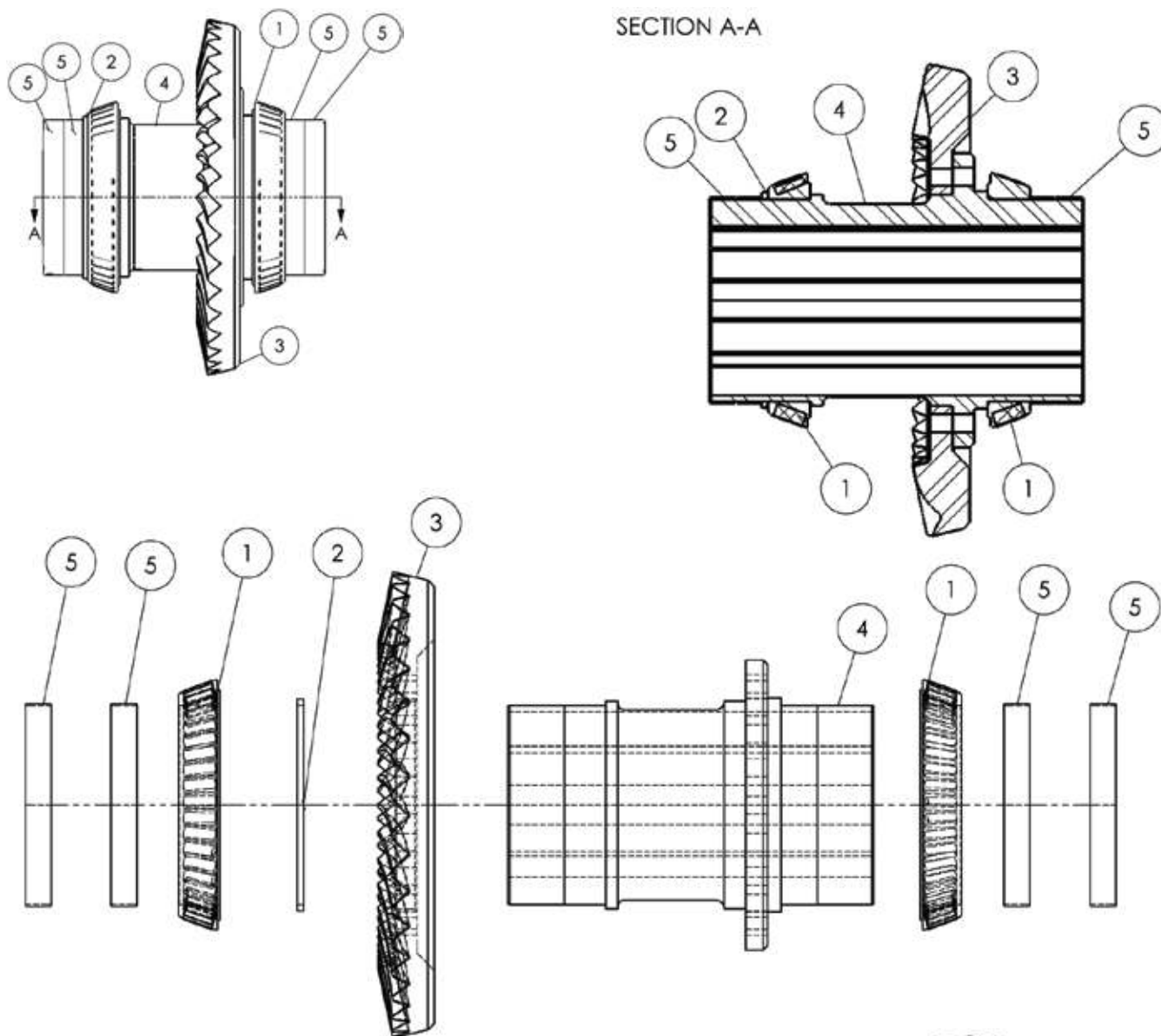
SDH-5105 Gear Case / Pinion Section

Item	Part #	Qty.	Description
1	20016	1	Cotter Pin
2	D-658	1	Gasket Gear Case
3	20015	1	Castle Nut
4	RB-127PS	1	Hub, Sheave - DD
5	RB-173-1	1	Cap Pinion Shaft
6	RB-1021	1	P/S Bushing .250 Hvy Pinion
7	RB-1020	1	Sleeve
8	RBP-925	1	B Seal Grs 63 x 1357
9	RBP-913	1	B Seal Natl 471141
10	1064	1	3/4-16 Stud
11	RBP-903	1	B Brg Cup Timken
12	RBP-5087	1	B Brg Cup Timken
13	RBP-5088	1	B Brg Cone Timken
14	RBP-906	1	B Brg Cone Timken
15	D-50	1	Pinion shaft
16	D-2097-2	1	Torque Tube L/H SD5105-1

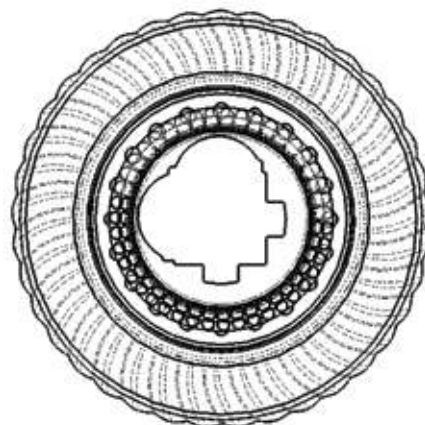


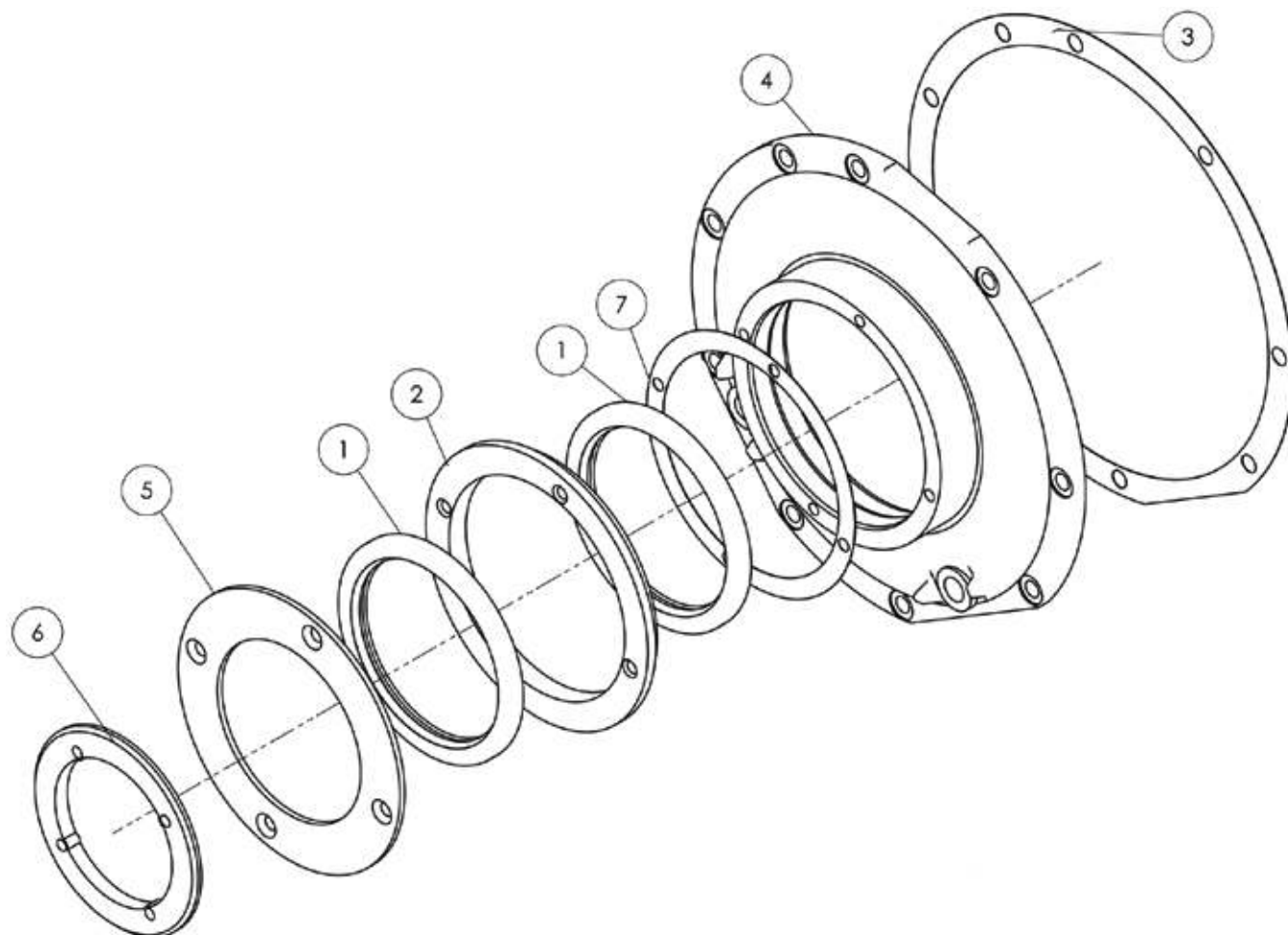
SECTION B-B



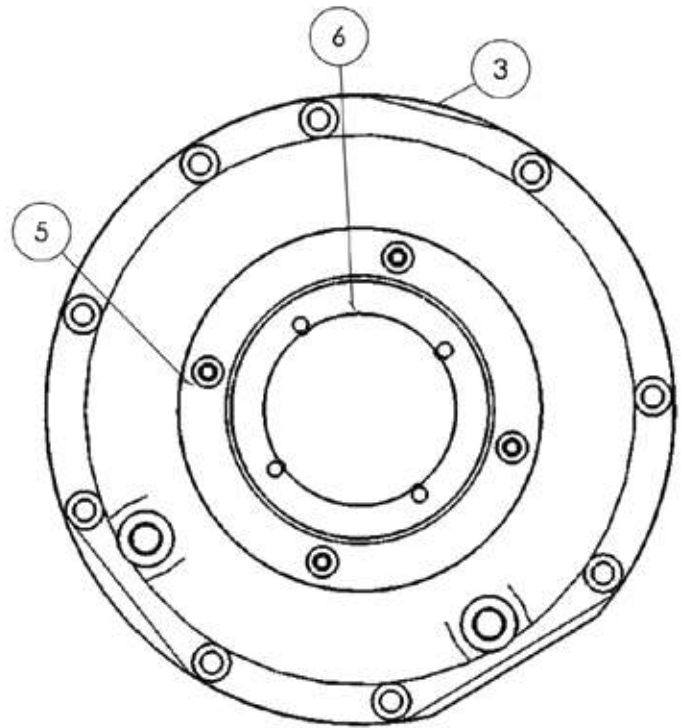
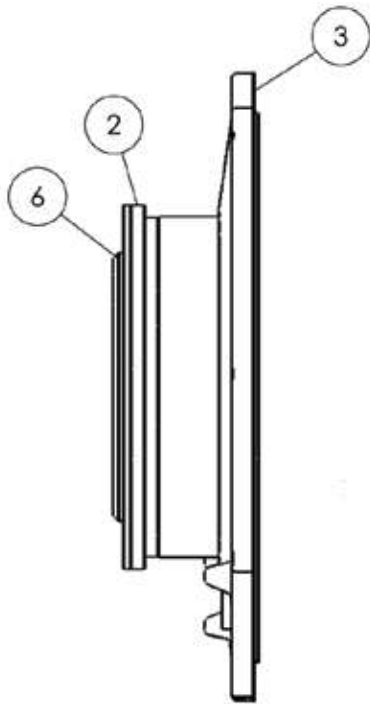
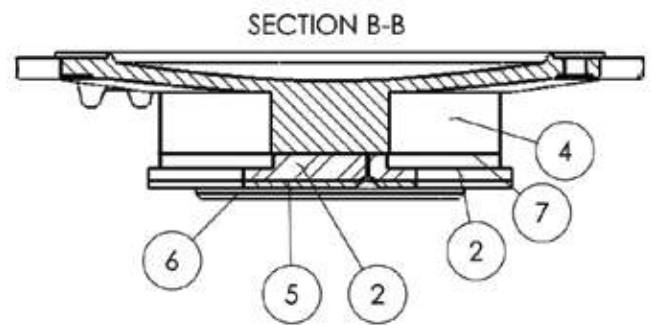
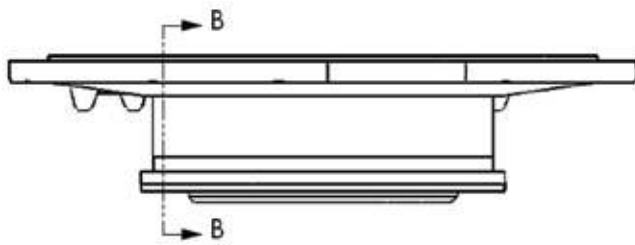
SDH-5105 Gear Case / Hub Section

Item	Part #	Qty.	Description
1	RB-426PS	2	B Brg Cone Timkin
2	D-38	1	Spacer, Wear Sleeve
3	D-49	1	Ring Gear
4	D-35PS	1	Hub Ring Gear
5	RB-429	4	B Wear Sleeve

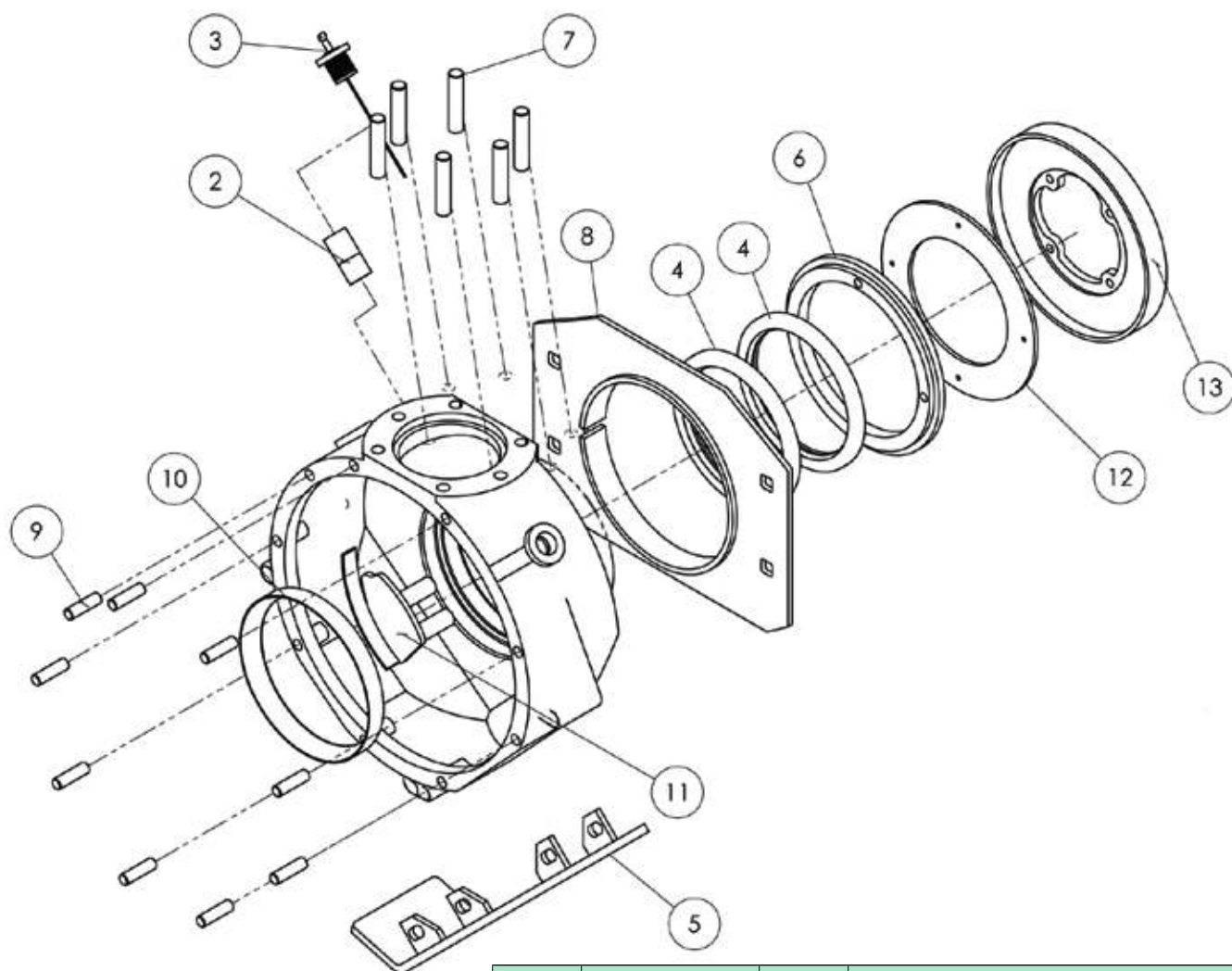


SDH-5105 Gear Case / Cover, Left Side

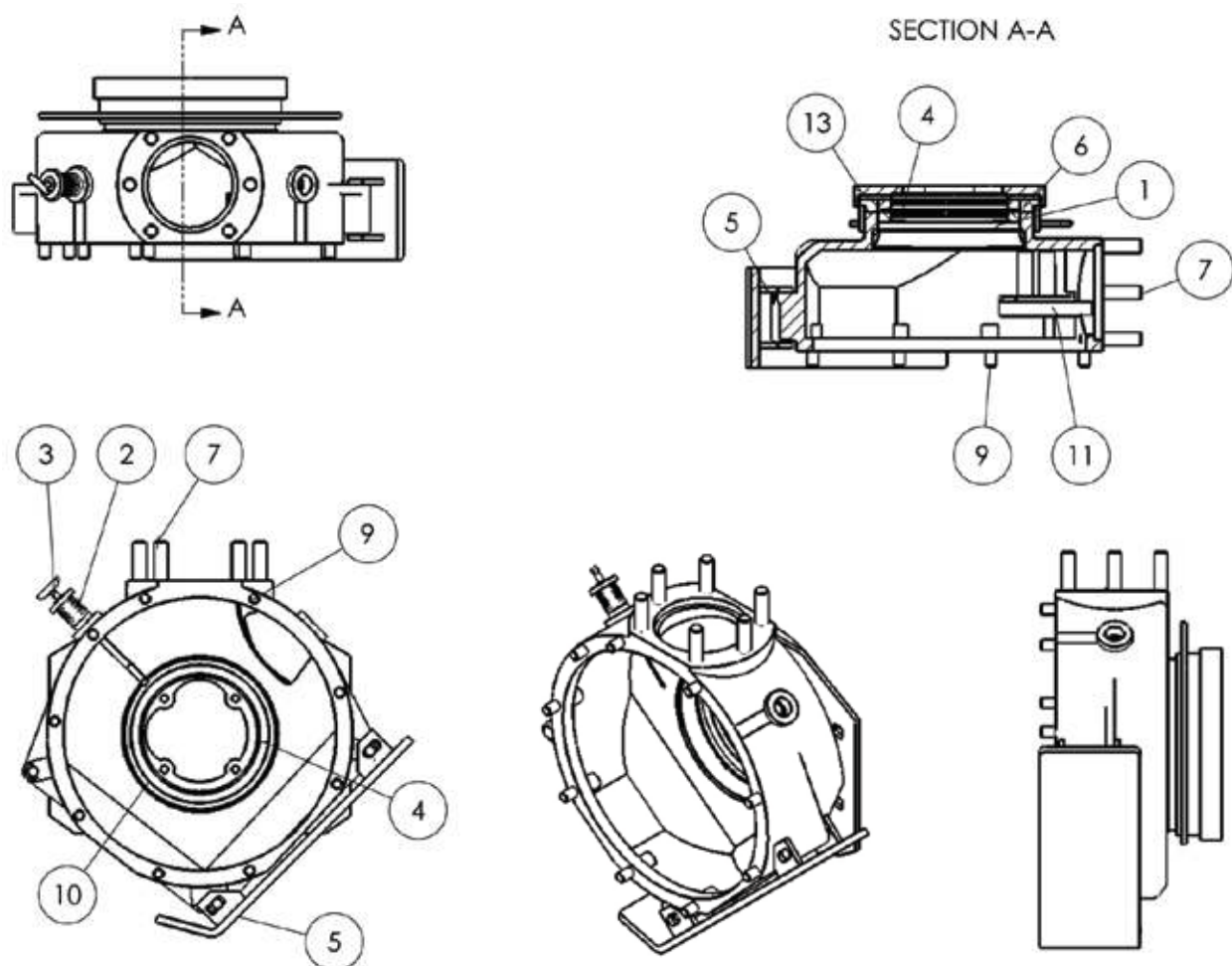
Item	Part #	Qty.	Description
1	RB-428	2	B Seal National 416476
2	RB-31829-1	1	Spacer Double Seal .680 Outside
3	D-36	1	Gasket Cover SD5105 & SD5106
4	D-95PS	1	Cover Gear Case
5	RB1629-1	1	Inner Seal Anti-Wrap
6	RB-32033-1	1	Anti-Wrap Double Seal Outer
7	D-659	1	Gasket Anti-Wrap

SDH-5105 Gear Case / Cover, Left Side

Item	Part #	Qty.	Description
1	RB-428	2	B Seal National 416476
2	RB-31829-1	1	Spacer Double Seal .680 Outside
3	D-36	1	Gasket Cover SD5105 & SD5106
4	D-95PS	1	Cover Gear Case
5	RB1629-1	1	Inner Seal Anti-Wrap
6	RB-32033-1	1	Anti-Wrap Double Seal Outer
7	D-659	1	Gasket Anti-Wrap

SDH-5105 Gear Case / Case, Right Side

Item	Part #	Qty.	Description
1	D-94PS	1	P/S Gear Case
2	RB-1826	1	Tube Dipstick
3	RB-1827	1	Dipstick
4	RB-428	2	B Seal National 416476
5	D-2080	1	Skid Shoe, D Gear Case
6	RB-31829	1	Spacer Double Seal .600 Inside
7	D-92	6	F Stud 5/8 NC & NF x 3
8	D-2420	1	Support Flange D Gear Case
9	L-27	9	F 1/2 x 1 7/8 NF to NC
10	RB-427	1	B Brg Cup Timken
11	D-2625	1	Oil Slinger
12	RB1629-3	1	Outer Seal Anti-Wrap
13	RB-32033	1	Anti Wrap Cover, Inner

SDH-5105 Gear Case / Case, Right Side

Item	Part #	Qty.	Description
1	D-94PS	1	P/S Gear Case
2	RB-1826	1	Tube Dipstick
3	RB-1827	1	Dipstick
4	RB-428	2	B Seal National 416476
5	D-2080	1	Skid Shoe, D Gear Case
6	RB-31829	1	Spacer Double Seal .600 Inside
7	D-92	6	F Stud 5/8 NC & NF x 3
8	D-2420	1	Support Flange D Gear Case
9	L-27	9	F 1/2 x 1 7/8 NF to NC
10	RB-427	1	B Brg Cup Timken
11	D-2625	1	Oil Slinger
12	RB1629-3	1	Outer Seal Anti-Wrap
13	RB-32033	1	Anti Wrap Cover, Inner