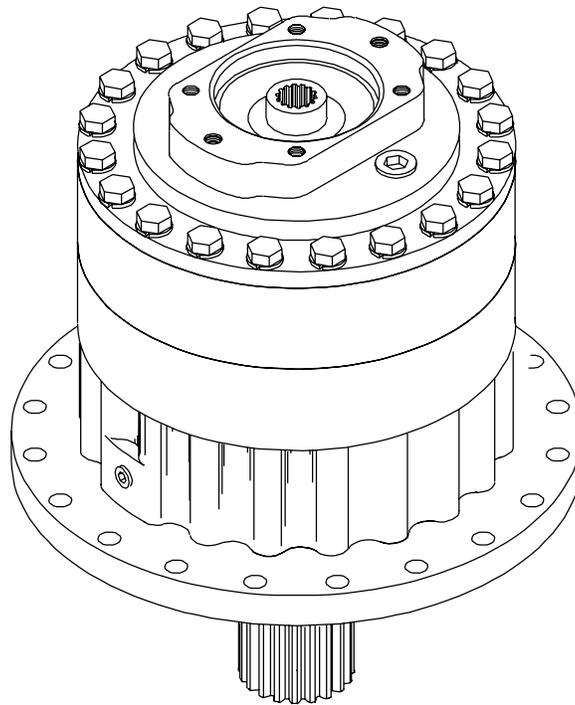
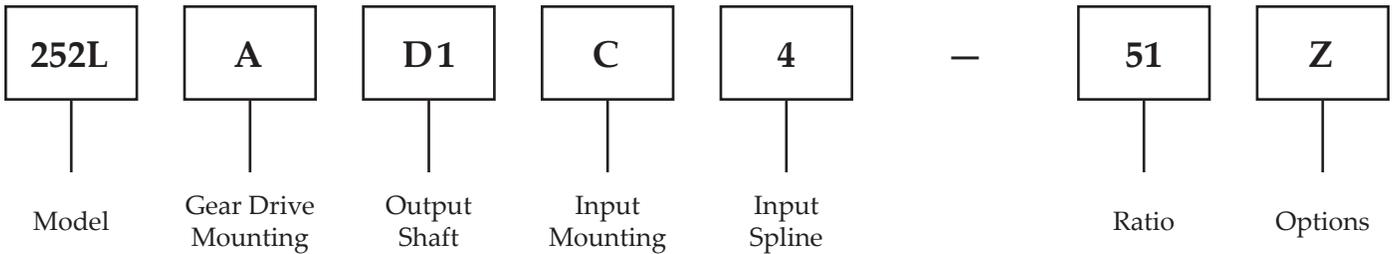


# ESKRIDGE

## 252L PLANETARY GEAR DRIVE SERVICE AND REPAIR MANUAL



### Example Part Number



THIS SERVICE MANUAL IS EFFECTIVE  
FROM:..... S/N 28500, JAN. 1997  
TO: ..... CURRENT  
REF: ..... SM252LD2-AD

# 252L MODEL SERVICE MANUAL

## DOUBLE STAGE PLANETARY GEAR DRIVE

This manual will assist in disassembly and assembly of the above model planetary geardrives. Item numbers, indicated in parentheses throughout this manual, refer to the exploded parts breakdown drawing. Individual customer specifications (mounting case, output shaft, brake assembly, etc.) may vary from exploded drawing and standard part numbers shown. If applicable, refer to individual customer drawing for details.

For any spare or replacement parts, contact your distributor or equipment manufacturer. Always try to have available the geardrive unit part number, serial number and date code on the serial tag. This information may be necessary for verification of any component part numbers. Component part numbers and/or manufacturing lot numbers may be stamped on individual parts. This information may also be helpful in identifying replacement components.

## LUBRICATION & MAINTENANCE

**Change the oil after the first 50 hours of operation.** Oil should be changed at 500 hour intervals thereafter. Use a GL-5 grade EP 89/90 gear oil (EP = "Extreme Pressure"). The geardrive should be partially disassembled to inspect gears and bearings at 1000 hour intervals.

If your unit was specified "shaft up" or with a "-Z" option, a grease zerk was provided in the base housing. For shaft-up operation, the output bearing will not run in oil and must be grease lubricated. Use a lithium base or general purpose bearing grease sparingly every 50 operating hours or at regular maintenance intervals. Over-greasing the output bearing tends to fill the housing with grease and thicken the oil.

Operating Position	Oil Capacity	Oil Level
Horizontal Shaft	6.75 pints / 3.2liters	To horizontal centerline of gear drive
Vertical Shaft	12.75 pints / 6.0 liters	To midway on upper/primary gear set

 **WARNING: While working on this equipment, use safe lifting procedures, wear adequate clothing and wear hearing, eye and respiratory protection.**

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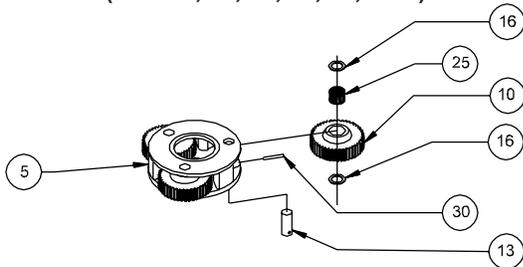
# Unit Disassembly Procedure

(Refer to exploded view drawing)

- 1) Scribe a diagonal line across the outside of the unit from the cover (4) to the base (1) before disassembly to assure proper positioning of pieces during reassembly.
- 2) Remove magnetic drain plug (33) and drain oil from unit. Maximum drainage occurs when oil is warm.
- 3) Remove the twenty hex head capscrews (29) and lockwashers (32).
- 4) Remove the cover (4), thrust washer (28), input gear (11), and carrier thrust washer (14). Inspect o-ring (15); discard if damaged or if it has taken a set.
- 5) Lift the primary planet carrier assembly out of the unit (includes Items 5, 10, 13, 16, 25, & 30).
- 6) If sun gear (9) has not been removed from gearbox, do so now. (Sometimes the sun gear remains in the primary carrier (5).)
- 7) Remove primary ring gear (2). Inspect second o-ring (15), as before; discard if damaged.
- 8) Remove carrier thrust washer (14). Lift the secondary planetary assembly out of the unit (includes Items 6, 8, 12, 17, 23, 24, & 31). Use a puller if necessary.
- 9) Remove secondary ring gear (3). Inspect third o-ring (15), as before; discard if damaged.
- 10) The unit is now disassembled into groups of parts. The area(s) requiring repair should be identified by thorough inspection of the parts after they have been cleaned and dried.

## Primary Planet Carrier Subassembly

(Items 5, 10, 13, 16, 25, & 30)



Rotate planet gears (10) to check for abnormal noise or roughness in bearings (25) or planet shafts (13). If further inspection or replacement is required, proceed as follows.

**NOTE: Support carrier (5) only while pressing out planet shafts.**

- 1) Drive roll pins (30) completely into the planet shafts (13).
- 2) Press or drive planet shafts (13) out of carrier (5).
- 3) Remove planet gears (10) and planet washers (16) from the carrier (5).
- 4) If the planet bearings (25) require replacement, press them out of the planet gears (10) and replace with new ones.
- 5) Check primary planet shafts (13) for any abnormal wear, especially ones where bearings needed to be replaced. If any abnormal wear is found, replace planet shafts.
- 6) Use 3/16 inch pin punch to remove roll pins (30) from planet

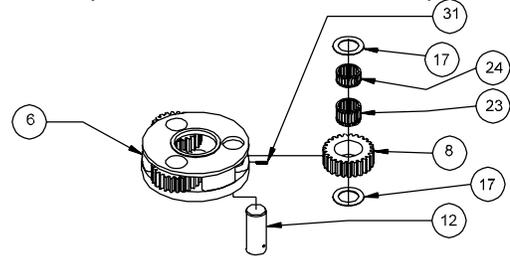
shafts (13).

## Reassembly

- 1) With planet washers (16) on both sides of the planet gear (10) and with bearings (25) installed, slide gear into the carrier (5). Insert the planet shaft (13) through the carrier, washers, and planet gear.
- 2) Planet shafts (13) should be installed with chamfered end of 3/16 inch hole toward outside diameter of the carrier (5). This will aid in alignment of holes while inserting roll pins (30).
- 3) Drive a roll pin (30) through the carrier hole and into the planet shaft to retain the parts. Repeat for other planet gears.

## Secondary Planet Carrier Subassembly

(Items 6, 8, 12, 17, 23, 24, & 31)



Follow the same procedure as that for the primary planetary assembly. Substitute Items as indicated: planet gears (8), planet bearings (23 & 24), planet shafts (12), roll pins (31), carrier (6) and washers (17).

Rotate planet gears (8) to check for abnormal noise or roughness in bearings (23 & 24) or planet shafts (12). If further inspection or replacement is required, proceed as follows.

**NOTE: Support carrier (6) only while pressing out planet shafts.**

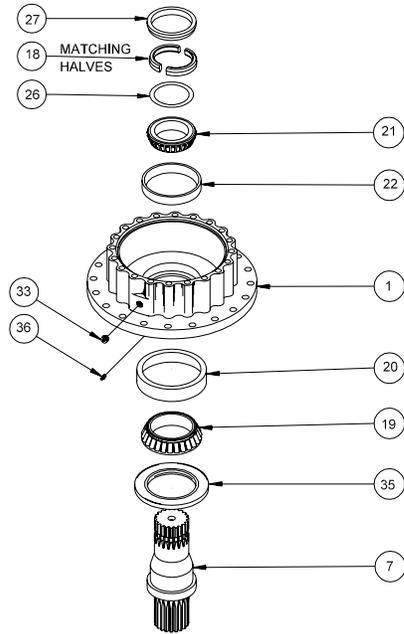
- 1) Drive roll pins (31) completely into the planet shafts (12).
- 2) Press or drive planet shafts (12) out of carrier (6).
- 3) Remove planet gears (8) and planet washers (17) from the carrier (6).
- 4) If the planet bearings (23 & 24) require replacement, press them out of the planet gears (8) and replace with new ones.
- 5) Check primary planet shafts (12) for any abnormal wear, especially ones where bearings needed to be replaced. If any abnormal wear is found, replace planet shafts.
- 6) Use 3/16 inch pin punch to remove roll pins (31) from planet shafts (12).

## Reassembly

- 1) With planet washers (17) on both sides of the planet gear (8) and with bearings (23 & 24) installed, slide gear into the carrier (6). Insert the planet shaft (12) through the carrier, washers, and planet gear.
- 2) Planet shafts (12) should be installed with chamfered end of 3/16 inch hole toward outside diameter of the carrier (6). This will aid in alignment of holes while inserting roll pins (31).
- 3) Drive a roll pin (31) through the carrier hole and into the planet shaft to retain the parts. Repeat for other planet gears.

## Base Subassembly

(Items 1, 7, 18, 19, 20, 21, 22, 26, 27, 33, 35, & 36)



- 1) Remove the lock ring (27) using a heel bar or puller. If using a heel bar, do not pry against the cage of the inner output shaft bearing (21). Remove the split ring segments (18) and shims (26).

**CAUTION: Output shaft is no longer retained. Care should be taken not to injure feet because output shaft can fall out. Care should also be taken not to damage output shaft when shaft is pressed through base.**

- 2) Output shaft removal. Base (1) should be set pinion side down, as shown, on a plate or table with output shaft (7) protruding through a hole in table. Press output shaft out bottom of base by applying a load to top end (**internal end**) of shaft until it passes through inner shaft bearing cone (21).
- 3) If outer bearing cone (19) (**on the shaft**) needs to be removed a gear puller may be used, otherwise skip to step number 6. If reusing old bearing cone, do not pull on or damage roller cage. Remove the shaft seal (35) for inspection or replacement.
- 4) Lubricate inner lip of new shaft seal (35) and slide the seal onto the shaft (7) until it fits snugly over shaft seal diameter with the open side toward the inside of the gearbox.

**NOTE: Press bearing cone onto output shaft by pressing on inner race only. DO NOT press on roller cage or it may damage bearing.**

- 5) Press outer bearing cone (19) (**large end down as shown**) onto the shaft until it seats against the shoulder. Bearing cone (19) may be reused if it was removed only to replace the seal (35).
- 6) Inspect inner and outer bearing cups (20 & 22) and replace if necessary.

### Reassembly

- 1) Clean all foreign material from magnetic oil plug (33) located on side of base (1). Add a small amount of pipe thread compound to pipe plug before installing back into base.

- 2) Place the base (1) (**output side up, opposite shown**) on the press table.
- 3) Apply a layer of lithium or general purpose bearing grease to surface of outer bearing cup (20). Insert the shaft into the base (**bearing cone down**) and use a soft hammer to install the shaft seal (35) into the mounting base.

**CAUTION: Output shaft is not retained at this point.**

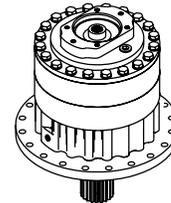
- 4) Invert this assembly so it is standing on the shaft (**on the press table**).

**NOTE: Press bearing cone onto output shaft by pressing on inner race only. DO NOT press on roller cage or it may damage bearing.**

- 5) Apply a layer of lithium or general purpose bearing grease to surface of inner bearing cup (22). Press the inner bearing cone (21) (**large end up as shown**) onto the shaft (7) until it is just seated against inner bearing cup (22). A slight preload of less than 100 in-lbs rolling torque should be obtained.
- 6) Relieve the press and slide the shim(s) (26) onto the shaft. Coat the split ring (18) with anti-seize compound and begin installing ring in groove of shaft. Tap the segments into the groove of the shaft until you can drive the lock ring (27) over the segments. Be sure the lock ring (27) 'clicks' over the detent which helps keep the LOAD-n-LOCK® in place. Measure the rolling torque of the output shaft; torque is the product of the force (lbs) times the distance from the center line of the gearbox (in). The rolling torque should be **50 to 100 lbs**. If the rolling torque is too high, remove the load and lock and remove a shim and install LOAD-n-LOCK® and measure again. If torque is too low, add a shim and measure again.

## Unit Reassembly

(Refer to exploded drawing)



- 1) When all subassemblies are complete, unit is ready to be assembled.
- 2) Lubricate o-ring (15) and install on the O.D. pilot of the secondary ring gear (3). Referring to scribe marks for proper orientation, install the secondary ring gear (3) onto the base (1).
- 3) Install the secondary planet carrier (6); assemble by rotating it until planet gears line up with ring gear teeth and shaft spline. Press until fully seated on shaft (7).
- 4) Lubricate o-ring (15) and install on the O.D. pilot of the primary ring gear (2) and install the primary ring gear (2). Refer to scribe marks for proper orientation.
- 5) Slide the sun gear (9) into the secondary planet carrier (6).
- 6) Install carrier thrust washer (14).
- 7) Install primary planet carrier (5); assemble by rotating it until planet gears line up with ring gear teeth and sun gear spline. Assembly should drop into place.

- 8) Slide the input gear **(11)** into the primary planetary carrier.
- 9) Install carrier thrust washer **(14)** and input gear thrust washer **(28)**.
- 10) Lubricate o-ring **(15)** and install on the O.D. pilot of the cover **(4)**. Position the cover **(4)** with the proper orientation. Install the twenty 5/8-11 capscrews **(29)** with lockwashers **(32)** and torque to 220 ft-lbs (dry), 170 ft-lbs (lubed).
- 11) Fill to proper level, as specified on page 2, with EP 80/90 gear oil after unit is sealed with a brake and/or motor.

**The gearbox is now ready to use.**

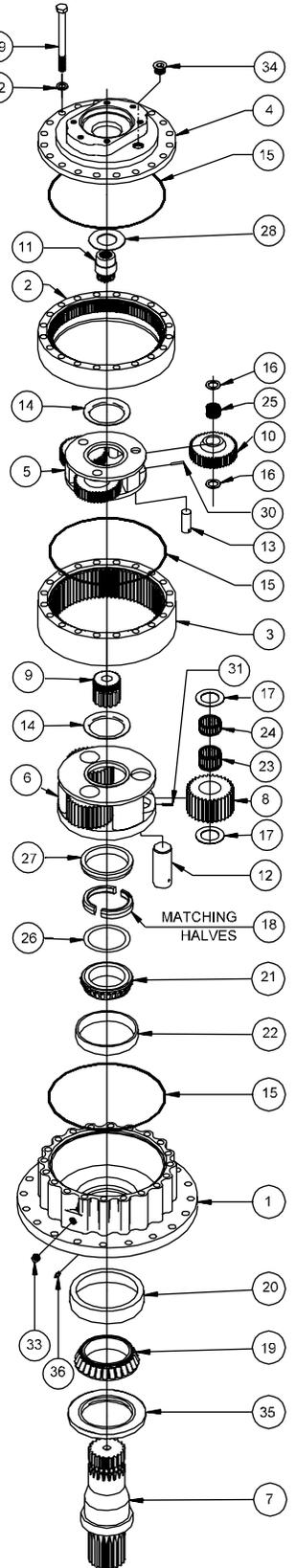
# 252L Double Stage Exploded View Drawing



## MODEL 252L

EQUIPPED WITH PATENTED "LOAD-N-LOCK"®  
SHAFT RETENTION SYSTEM. (U.S. PATENT NO. 5746517).

ITEM	QTY	DESCRIPTION	RATIO →					
			20.25:1 4.3125:1 4.6957:1	25.88:1 4.3125:1 6.00:1	29.58:1 6.30:1 4.6957:1	37.80:1 6.30:1 6.00:1	40.25:1 8.5714:1 4.6957:1	51.43:1 8.5714:1 6.00:1
EFFECTIVE: FROM: S/N 28500 01/01/97 TO: CURRENT			PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
1	1	250A BASE - ROUND	25-004-3012	25-004-3012	25-004-3012	25-004-3012	25-004-3012	25-004-3012
		250F BASE - FLANGELESS	25-004-3022	25-004-3022	25-004-3022	25-004-3022	25-004-3022	25-004-3022
		CUSTOM BASE	-	-	-	-	-	-
2	1	RING GEAR - PRIMARY	25-004-1012	25-004-1012	25-004-1012	25-004-1012	25-004-1012	25-004-1012
3	1	RING GEAR - SECONDARY	25-004-1022	25-004-1022	25-004-1022	25-004-1022	25-004-1022	25-004-1022
		A - SAE 'A' COVER	25-005-2061	25-005-2061	25-005-2061	25-005-2061	25-005-2061	25-005-2061
		B - SAE 'B' COVER	25-005-2051	25-005-2051	25-005-2051	25-005-2051	25-005-2051	25-005-2051
		C - SAE 'C' (2 AND 4 BOLT)	25-004-1222	25-004-1222	25-004-1222	25-004-1222	25-004-1222	25-004-1222
		D - SAE 'D' COVER	25-004-1232	25-004-1232	25-004-1232	25-004-1232	25-004-1232	25-004-1232
5	1	CARRIER - PRIMARY	25-004-1052	25-004-1052	25-004-1042	25-004-1042	25-004-1032	25-004-1032
6	1	CARRIER - SECONDARY	25-004-1072	25-004-1062	25-004-1072	25-004-1062	25-004-1072	25-004-1062
		D1 - OUTPUT SHAFT 20T 6/12 SPLINE	25-004-4012L	25-004-4012L	25-004-4012L	25-004-4012L	25-004-4012L	25-004-4012L
		D2 - OUTPUT SHAFT 3.75" DIA, KEYED	25-004-4022L	25-004-4022L	25-004-4022L	25-004-4022L	25-004-4022L	25-004-4022L
		S1 - SPINDLE SHAFT	25-004-4052L	25-004-4052L	25-004-4052L	25-004-4052L	25-004-4052L	25-004-4052L
		C1 - OUTPUT SHAFT - CUSTOM	-	-	-	-	-	-
8	3	PLANET GEAR - SECONDARY	25-004-1092	25-004-1082	25-004-1092	25-004-1082	25-004-1092	25-004-1082
9	1	SUN GEAR - SECONDARY	25-004-1152	25-004-1142	25-004-1152	25-004-1142	25-004-1152	25-004-1142
10	3	PLANET GEAR - PRIMARY	25-004-1122	25-004-1122	25-004-1112	25-004-1112	25-004-1102	25-004-1102
		INPUT GEAR INPUT 14T SPL	25-004-1202	25-004-1202	25-004-1172	25-004-1172	25-004-1162	25-004-1162
		INPUT GEAR INPUT 13T SPL	25-004-1292	25-004-1292	25-004-1282	25-004-1282	25-004-1272	25-004-1272
12	3	PLANET SHAFT - SECONDARY	25-004-1021	25-004-1021	25-004-1021	25-004-1021	25-004-1021	25-004-1021
13	3	PLANET SHAFT - PRIMARY	25-004-1031	25-004-1031	25-004-1031	25-004-1031	25-004-1031	25-004-1031
14	2	THRUST WASHER - CARRIER	25-004-1132	25-004-1132	25-004-1132	25-004-1132	25-004-1132	25-004-1132
15	3	SEAL (O-RING)	01-402-0020	01-402-0020	01-402-0020	01-402-0020	01-402-0020	01-402-0020
16	6	THRUST WASHER - PRI. PLANET	81-004-1561	81-004-1561	81-004-1561	81-004-1561	81-004-1561	81-004-1561
17	6	THRUST WASHER - SEC. PLANET	25-004-1041	25-004-1041	25-004-1041	25-004-1041	25-004-1041	25-004-1041
18	1	SPLIT RING - LOAD-N-LOCK	25-004-1182	25-004-1182	25-004-1182	25-004-1182	25-004-1182	25-004-1182
19	1	BEARING CONE - OUTER	01-102-0240	01-102-0240	01-102-0240	01-102-0240	01-102-0240	01-102-0240
20	1	BEARING CUP - OUTER	01-103-0240	01-103-0240	01-103-0240	01-103-0240	01-103-0240	01-103-0240
21	1	BEARING CONE - INNER	01-102-0250	01-102-0250	01-102-0250	01-102-0250	01-102-0250	01-102-0250
22	1	BEARING CUP - INNER	01-103-0250	01-103-0250	01-103-0250	01-103-0250	01-103-0250	01-103-0250
23	3	BEARING - SEC PLANET GEAR	01-105-0550	01-105-0550	01-105-0550	01-105-0550	01-105-0550	01-105-0550
24	3	BEARING - SEC PLANET GEAR	01-105-0560	01-105-0560	01-105-0560	01-105-0560	01-105-0560	01-105-0560
25	3	BEARING - PRI PLANET GEAR	01-105-0570	01-105-0570	01-105-0570	01-105-0570	01-105-0570	01-105-0570
26	*	SHIM - SHAFT ADJUSTMENT	25-004-1051	25-004-1051	25-004-1051	25-004-1051	25-004-1051	25-004-1051
27	1	LOCK RING - LOAD-N-LOCK	25-004-1192	25-004-1192	25-004-1192	25-004-1192	25-004-1192	25-004-1192
28	1	THRUST WASHER - INPUT GEAR	81-004-2883	81-004-2883	81-004-2883	81-004-2883	81-004-2883	81-004-2883
		THRUST WASHER - F/U/W/ 13T 8/16 INPUT	01-112-0030	01-112-0030	01-112-0030	01-112-0030	01-112-0030	01-112-0030
29	20	HEX HEAD CAPSCREW (5/8-11 X 7) GR 8	01-150-1630	01-150-1630	01-150-1630	01-150-1630	01-150-1630	01-150-1630
30	3	ROLL PIN (3/16 X 1)	01-153-0020	01-153-0020	01-153-0020	01-153-0020	01-153-0020	01-153-0020
31	3	ROLL PIN (3/16 X 1 1/4)	01-153-0190	01-153-0190	01-153-0190	01-153-0190	01-153-0190	01-153-0190
32	20	LOCKWASHER - (5/8)	01-166-0040	01-166-0040	01-166-0040	01-166-0040	01-166-0040	01-166-0040
33	1	PIPE PLUG (1/2 NPT MAGNETIC) - BASE	01-207-0041	01-207-0041	01-207-0041	01-207-0041	01-207-0041	01-207-0041
34	1	PLUG - COVER	01-208-0030	01-208-0030	01-208-0030	01-208-0030	01-208-0030	01-208-0030
35	1	SHAFT SEAL	01-405-0670	01-405-0670	01-405-0670	01-405-0670	01-405-0670	01-405-0670
36	1	PLUG 1/4 NPT	01-207-0020	01-207-0020	01-207-0020	01-207-0020	01-207-0020	01-207-0020
		GREASE FITTING (OPTIONAL-SHOWN)	01-215-0040	01-215-0040	01-215-0040	01-215-0040	01-215-0040	01-215-0040



▶ FOR 13T, 8/16 INPUT SPLINE, USE P/N 01-112-0030 THRUST WASHER. (USE ONLY WITH 'D' COVER).

\* QUANTITY OF SHIMS DETERMINED BY BEARING PRELOAD.  
 OPTIONS SEAL KIT P/N 25-016-2011  
 INCLUDES 1 EA. OF ITEMS 35  
 AND A QTY 3 OF ITEM 15

E.C.N. 1803  
 X252LD2-AB DATE: 4-24-00

## ESKRIDGE FINISHED PRODUCT LIMITED WARRANTY

### 1.1 **Scope of Warranty Coverage.** Upon the terms and subject to the conditions set forth in this limited warranty:

(a) ESKRIDGE (referred to herein as “**ESKRIDGE**” or the “**Manufacturer**”) warrants to each initial end user customer (a “**Purchaser**”) of a new finished product together with any accessories manufactured and sold directly from ESKRIDGE (the “**Product**”) that the Product shall be free from defects in material and workmanship, under normal working and service conditions, for a period of eighteen (18) months from the date the Product is shipped from ESKRIDGE. (the “**Warranty Term**”). A Purchaser shall be eligible for an additional eighteen (18) months of coverage in addition to the Warranty Term (also referred to as the “**Standard (+) PLUS benefit**”) only if the Purchaser (i) complies with Section 1.2(a) and (ii) registers the Product during the Warranty Term at [myproduct.eskridgeinc.com](http://myproduct.eskridgeinc.com).

(b) Notwithstanding the foregoing, this warranty does not cover components damaged by accident, abuse, misuse, neglect, untrained operators, collision, overloading, modification, disassembly, rework, misapplication, improper installation, lack of lubrication or maintenance, or improper service. This warranty does not cover the paint or material finish, removal or reinstallation of the Product, or normal wear and tear and loss of functionality due to aging of the Product (which may include but is not limited to bearings, bushings, seals, O-rings, gaskets, brake material, motor brushes, electrical cables and more).

### 1.2 **Eligibility of Warranty Coverage.**

(a) A Purchaser shall be eligible for warranty coverage under this Limited Warranty during the Warranty Term only if:

(i) Prior to placing a Product in service, and throughout use of the Product during the Warranty Term, the Purchaser provides (or causes to be provided) proper storage such that foreign objects (e.g. rain or debris) cannot enter any Product through entry ports which are normally closed during operation.; and

(ii) The Purchaser maintains, or causes to be maintained, the Product according to commercially reasonable standards and utilizes the Product for the purposes for which it was created; and

(iii) No repairs or alterations have been made by any party other than ESKRIDGE, including Purchaser, unless otherwise authorized in writing by ESKRIDGE.

### 1.3 **Transferability of Warranty.**

(a) This warranty is transferable only from the Purchaser to the first subsequent transferee (the “**Transferee**”) of the Product from Purchaser upon (i) written notification to ESKRIDGE and (ii) registration of the transfer, both within 30 days of such Product transfer.

(b) Upon satisfaction of transfer requirements set forth in Section 1.3(a), the Transferee shall succeed to all the rights and obligations of the Purchaser set forth in this Limited Warranty.

### 1.4 **Certain Limitations on Scope of Warranty Service.**

(a) Any obligation of ESKRIDGE under this warranty, statutory or otherwise, is limited to the repair of the Product, at its factory or Authorized Service Centers. Notwithstanding the foregoing, if field service or repair is performed by ESKRIDGE at the request of the Purchaser and no defect is found with material or workmanship of the Product, the Purchaser shall compensate ESKRIDGE for its time and expenses within thirty (30) days of delivery of an invoice relating to the same. If repair is determined by ESKRIDGE in its sole, absolute and uncontrolled discretion to be impossible or impractical, then ESKRIDGE may satisfy this warranty by replacing the Product. ESKRIDGE will not provide any cash payment or credits for defective materials or workmanship.

(b) Purchaser shall be responsible for any and all freight charges for any Product receiving warranty service under this limited warranty. Any travel time, transportation charges, freight charges, or similar costs incurred by ESKRIDGE in connection with the replacement or repair of defective parts, shall, be the responsibility of the Purchaser. If applicable, ESKRIDGE shall invoice Purchaser for the total amount of such charges within sixty (60) days of fulfilling its duties under this warranty, payable within thirty (30) days of delivery of such invoice. In no event shall ESKRIDGE be liable for bills for service, labor or other expenses that have been incurred by the Purchaser without approval or prior authorization by ESKRIDGE for inspection, maintenance, or repair of the Product.

(c) If a Product is found to be operable upon inspection, the Product, at Purchaser's election, may be either (1) returned to the Purchaser with a service charge from ESKRIDGE for inspection, cleaning, and routine replacement of all rubber components and any other parts that show wear; or (2) ESKRIDGE can dispose of the product safely.

1.5 **Limitations of Liability.** ESKRIDGE shall in no event be liable for punitive, special or consequential damages relating to the Product or this Warranty. ESKRIDGE makes no warranty in respect to third-party accessories, upgrades, or additions to the Product.

1.6 **Improving Product.** ESKRIDGE reserves the right to improve the Product through changes in design or materials as it may deem desirable or necessary without being obligated to incorporate, upgrade, or otherwise modify previously manufactured products.

1.7 **Limitations of Warranty.**

(a) THE WARRANTY SET FORTH ABOVE IS THE ONLY EXPRESS WARRANTY. ESKRIDGE HEREBY DISCLAIMS AND EXCLUDES ANY OTHER EXPRESS, IMPLIED, OR STATUTORY WARRANTIES, ARISING BY OPERATION OF LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE, OF TRADE, OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY.

(b) ANY IMPLIED WARRANTY WHICH BY LAW MAY NOT BE EXCLUDED IS LIMITED IN DURATION TO ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT.

(c) This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

(d) This warranty is valid only in the U.S.A. and Canada. For warranty outside the U.S.A. and Canada contact your nearest Eskridge Distributor.

1.8 **No Modifications to Warranty.** No ESKRIDGE dealer, distributor, agent or employee is authorized to make any modification, extension or addition to this warranty.

1.9 **How to Apply for Warranty Coverage.**

All claims are handled by contacting your nearest Eskridge Distributor. For questions, please contact customer support: [eskcustomersupport@ramseyindustries.com](mailto:eskcustomersupport@ramseyindustries.com).

Visit [Dealer Locator - Eskridge](#) for Eskridge Distributor locations and contact information.

Additional warranty, service support, product information, and parts information can be found on [www.eskridgeinc.com](http://www.eskridgeinc.com).