

IMCO SCXT SERIES INFORMATION, OPERATION & MAINTAINANCE

Warning!

1. SCXT & SCX4T Drives will not fit on a standard gimbal helmet, IMCO HELMET: #05-8025 Black or #05-8027 Silver or #05-8028 ITS Black is required.

Danger!

2. When using SCXT or SCX4T drives it is necessary to have full hydraulic steering for your safety.

Warning!

3. When tuning engine remove propeller and shift drive into forward gear!

4. Do not run your boat with a worn or loose gimble ring or helmet, worn clevis pins, or clevis bushings.

5. Every hull is different and requires a different setup: Many different things contribute to performance: water pickup location, cavitation plates, gear ratio, drive height, prop, weight distribution, water conditions, weather conditions.

6. If you are installing the drive on a new application, consult the manufacture or a dealer with experience with the hull to determine the proper drive height.

7. SCX Drive is 19 7/8" from crankshaft center line to prop shaft center line (2" shorter than standard Bravo).

SCX4 Drive is 17 7/8" from crankshaft center line to propshaft center line (4" shorter than standard Bravo).

8. The bolt pattern is different from the SCXT to the SCX4T, lowers cannot be interchanged.

Warning!

9. Max propeller diameter on the SCXT is 16 3/4", SCX4T is 17" (always check that there is at least 1/2" clearance between the propeller blades and the drive case.

10. Large diameter propellers installed on a #6 prop shaft will require a torque tab on single engine boats.

11. SCX and SCX4 drives require a drive oil reservoir with a minimum capacity of 1 1/2 quarts.

12. When installing drive to gimbal or lower to upper always use anti-seize on all threads

13. When installing lower to upper, inspect all "O" rings, replace as necessary, pressure check to insure proper seal.

14. If you do your own maintenance and repairs on your IMCO drive, you will need a service manual and the proper tools. Service manuals and tools are available at www.imcomarine.com/cal_store.

Before Running!

15. Always wear proper safety equipment when operating your boat, testing or running at high speeds.

16. Inspect for: oil level in drive and reservoir, leaks, loose fasteners, worn parts.

Recommended oil: Torco RTF GL-6 (Torco Part #A220015CE (unit) Part # S220015C (case) IMCO Part # 09-2600 (unit) Part # 09-2605 (5 Gal.) Part # 09-2610 (case) (100% Synthetic Raceing Transmission Fluid) Replaces SAE 75W90.

To drain oil: remove drain screws from bearing carrier (right below the prop shaft) and on port side of upper.

To replace oil: pump oil in from lower drain screw until it comes out of upper drain screw hole. Replace drain screws and add oil to drive oil reservoir.

When changing oil, run the used oil through a strainer to check for metal particles, if there are metal particles in the oil it is time for inspection of the gears and bearings. If oil appears milky or off colored check for leaks.

SCXT, SCX4T capacity: 5 qts + reservoir - SCX Upper with SC Lower 4 1/2 qts + reservoir.

SCX Upper & SCX Lower	New Break in 20 hours	After Break In 80 hours
SCX4 Upper & SCX4 Lower	New Break in 20 hours	After Break In 80 hours
SCX Upper & SC Lower	New Break in 20 hours	Check Drain Plug Magnet Every 20 Hours

Warning!

17. Do not run engine when drive is trimmed extremely high, or in trailer tow mode.

Caution!

18. Do not use solvents or chemical cleaners to clean painted surfaces on the drive.

Warning!

19. When installing or changing propeller use extreme caution, propeller blades can be very sharp.

20. SCXT upper vertical shaft is 17 tooth spline, SC, Merc lowers are 15 tooth spline. A 17-15 tooth coupler is available 01-2150 (cannot be used with a spacer).

Caution!

21. Use extreme caution if modifying lower, case can be weakened or handling can be adversely affected.

22. Break in: Do not use full throttle until drive is fully warmed up, do not hold drive at wide open throttle for more than 2 minutes for the first 3 hours of use.

23. Inspect anode (located on front of cavitation plate) for corrosion or debris; if necessary clean or replace.

Caution!

24. Do not shift drive while running on hose with propeller installed.

25. Rotation: shift linkage pushed in - right hand rotation, shift linkage pulled out - left hand rotation.

26. Serial # location: Port side below SCX, SCX4 sticker



XXTREME ADVANTAGE **scXT**

Parts and Service Manual



IMCO

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TABLE OF CONTENTS

Upper Gear Case - Disassembly	1
Upper Case Hardware & Seals (Drawing)	2
Upper Case Hardware & Seals (Parts List)	3
Upper Case Gear & Components (Drawing)	4
Upper Case Gear & Components (Parts List)	5
Upper Gear Case Assembly	6
Upper Gear Case Assembly Cont.	7
SCXT Setup Diagams	8
SCXT Setup Work Sheet	9
Backlash Assembly (Diagram)	10
Lower Gear Case-Disassembly	11
Lower Gear Case (Drawing)	12
Lower Gear Case (Parts List)	13
Lower Gear Case-Assembly	14
Lower Pinion Height Measurments	15
Dissassembly-Assembly Tools	16

Check Oil Before Running

First break in oil change 5-8 hours.
Oil is filled to upper drain screw [Fig 1-33]
Pump oil from bottom drain screw [Fig 6-36]

Recommended oil change intervals 20-30 hours.
Heavy use or high HP change more often.

Serial Number _____

Date of Purchase _____

Purchased From _____

UPPER GEAR CASE-DISASSEMBLY

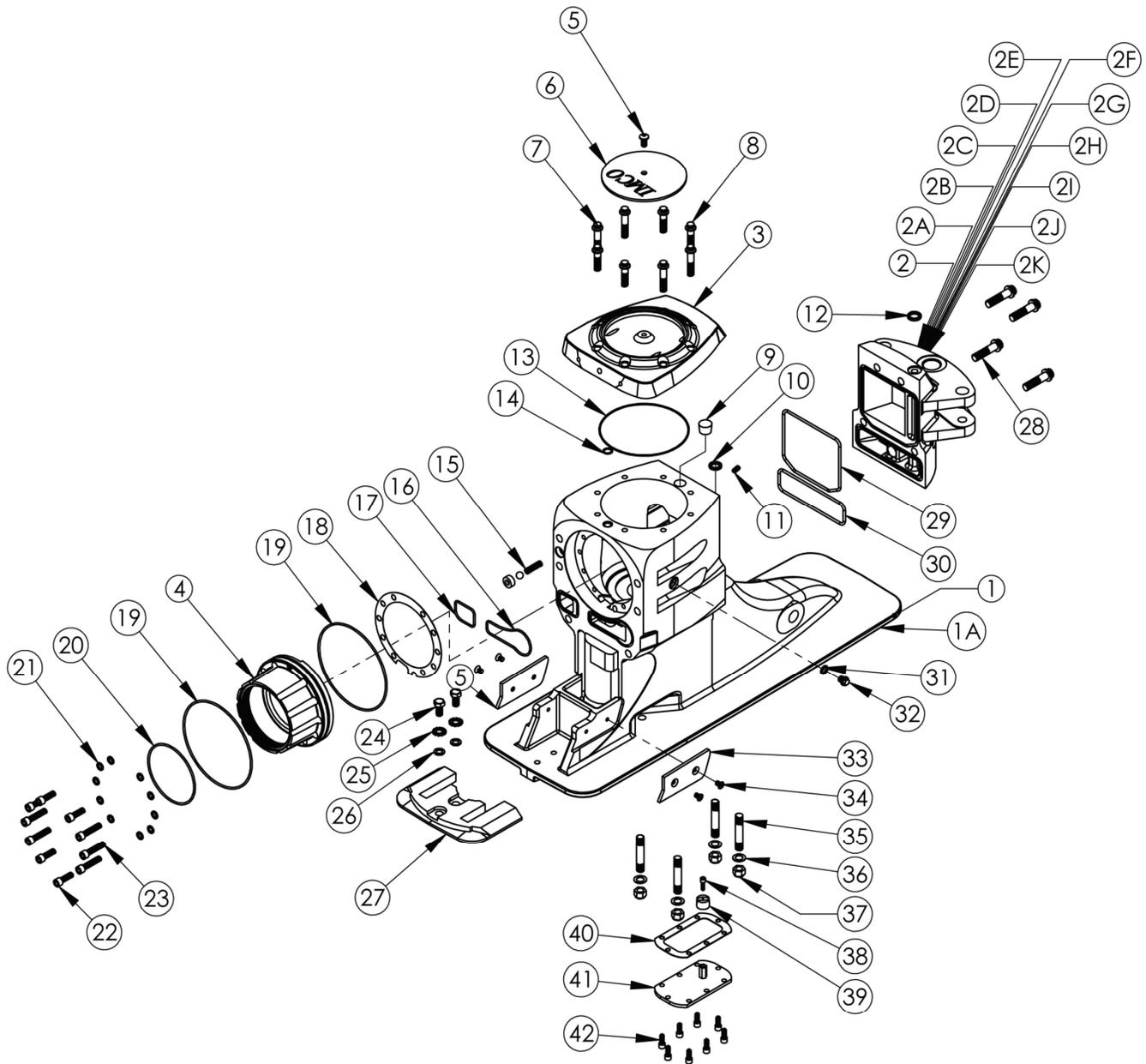
NOTE: The following instructions assume that the drive has been removed from the transom assembly. The lower unit has also been removed, along with the yoke coupler end, center socket, and cross and bearings. Steps followed by asterisk (**) are required only if inspection indicates component replacement. Brackets following the part name represent the drawing figure # and item #.

1. Remove upper cap screws [1-7,8], remove upper cap [1-3].
2. Remove steering cap screws [1-28], remove steering cap [1-2]
3. Remove pinion hub screws [1-(22,23)].
4. Remove pinion hub assembly [2-(31-45)].
5. Disassemble pinion hub assembly.
6. Remove yoke nut [2-36], and washer [2-37].
7. Remove yoke [2-32].
8. Remove retainer nut [2-31].
9. Remove Yoke gear end shims [2-42], pinion shoulder washer [2-43], and pinion seal carrier [2-45].
10. Remove bearings [2-(38,41)], bearing cups [2-(39,40)], and pinion gear [2-12].
Note: be sure to maintain correct assembly position of the upper & lower thrust bearings & races.
11. Remove upper thrust race [2-6] and upper thrust bearing [2-7].
12. Remove gear assembly [2-(8-13)].
13. Remove lower thrust race [2-6], lower thrust bearing [2-7].
14. Remove oil tank cover [1-41], inspect magnet [1-39]
15. Disassemble gear assy.

Note: Gear on bottom of gear assembly Right Hand Rotation.
Gear on top of gear assembly Left Hand rotation.

Upper Case Hardware & Seals

Fig-1



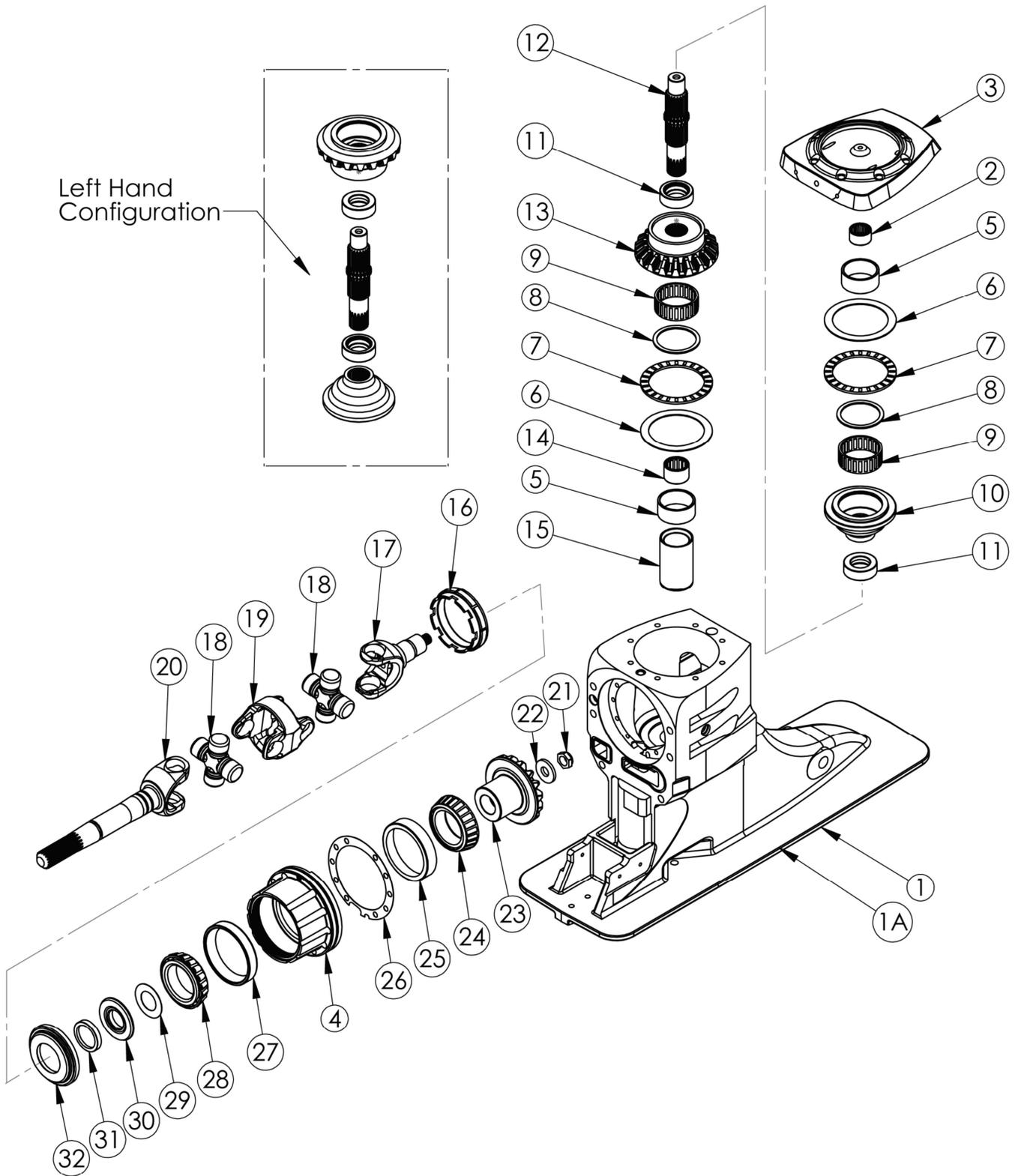
Item	Description	Qty	Part Number
1	Upper Case Black	1	01-1550
1A	Upper Case Silver	1	01-1557
2	Steering Cap CA Black	1	01-1551
2A	Steering Cap NV Black	1	01-1552
2B	Steering Cap Generic Black	1	01-1553
2C	Steering Cap ITS Black	1	01-1554
2D	Steering Cap Tie Bar Starboard Black	1	01-1555
2E	Steering Cap Tie Bar Port Black	1	01-1556

Upper Case Hardware & Seals Fig-1

Item	Description	Qty	Part Number
2F	Steering Cap CA Silver	1	01-1558
2G	Steering Cap NV Silver	1	01-1559
2H	Steering Cap Generic Silver	1	01-1560
2I	Steering Cap ITS Silver	1	01-1561
2J	Steering Cap Tie Bar Starboard Silver	1	01-1562
2K	Steering Cap Tie Bar Port Silver	1	01-1563
3	Upper Cap	1	01-2555
4	Pinion Hub	1	01-2560
5	Screw (5/16-18 x 1/2" Button Head)	1	08-040705041
6	Top Cap Lid	1	01-2071
7	Screw (3/8-16 x 1 3/4" S/S 12 Point)	4	08-070806111
8	Screw (3/8-16 x 1 1/2" S/S 12 Point)	4	08-070806101
9	Shift Shaft Plug	2	11-1024
10	Quad Ring (Cooling Water, Bottom)	1	11-4024
11	Screw (5/16-18 x 1/2" Allen Set)(Tower Retainer)	1	08-050705041
12	Quad Ring (Cooling Water, Top)	1	11-4025
13	"O" Ring (Top Cap)	1	11-2049
14	"O" Ring (Top Cap Oil Pressure)	1	11-2013
15	Spring Kit (Seal,Ball & Spring)	Kit	01-2045
16	"O" Ring (Water Passage-Upper to Gimbal)	1	11-2148
17	"O" Ring (Shift Linkage)	1	11-2129
18	Pinion Hub Shims	Kit	01-2548
19	"O" Ring (Pinion Hub)	2	11-2161
20	"O" Ring (Pinion Retainer Nut)	1	11-2154
21	Pinion Hub (5/16" Copper Sealing Washers)	10	08-120700004
22	Screw (5/16-18 x 1" Socket Cap)	4	08-060705082
23	Screw (5/16-18 x 1 1/2" Socket Cap)	6	08-060705102
24	Screw (3/8-16 x 3/4" HH)	2	08-010806061
25	Washer (3/8" Star)	2	08-110800001
26	Washer (3/8" AN)	2	08-100800001
27	Anode	1	01-2067
28	Screw (7/16-14 x 1 3/4" S/S 12 Point)	4	08-070907111
29	"O" Ring (Steering Cap, Oil)	1	11-2250
30	"O" Ring (Steering Cap, Shift Cavity)	1	11-2242
31	Drain Screw Sealing Washer	1	11-1017
32	Drain Screw	1	01-2504
33	Guide Pads (Port & Starboard)	2	01-2471
34	Screw (1/4-20 x 1/2" Flat Head Undercut)	4	08-020604041
35	Stud (7/16 x 2 1/8")	4	08-130904741
36	Washer (7/16" AN S/S)	4	08-100900001
37	Nut (7/16-20 Nylock S/S)	4	08-080904001
38	Screw (10-24 x 5/8" Socket Cap)	1	08-060403052
39	Magnet	1	01-9587
40	Oil Tank Gasket	1	11-1030
41	Oil Tank Cover	1	01-2574
42	Screw (1/4-20x 5/8" Socket Cap)	8	08-060604051

Upper Case Gear & Components

Fig-2



Upper Case Gear & Components

Fig-2

Item	Description	Qty	Part Number
1	Upper Case Black	1	01-1550
1A	Upper Case Silver	1	01-1557
2	Roller Bearing (Upper Vertical Shaft)	1	10-3042
3	Upper Cap	1	01-2555
4	Pinion Hub	1	01-2560
5	Tower Race	2	10-6041
6	Thrust Race	2	10-5045-X
7	Thrust Bearing (Gear)	2	10-4044
8	Spirol Retainer Ring	2	01-2055
9	Roller Bearing (Internal Gear)	2	10-3046
10	Gear Replacement	1	01-4576
11	Gear Spacer	2	01-9001
12	Upper Vertical Shaft	1	01-3562
13	SCXT, SCX4T Driven Gear	1	01-4540
14	Roller Bearing (Upper Vertical Shaft)	2	10-4020
15	Tower	1	01-2561
16	Retainer Nut	1	01-2239
17	Yoke Gear End	1	01-2085
18	Cross & Bearing	2	01-2086
19	Center Socket	1	01-2087
20	Yoke Coupler End	1	01-2088
21	Nut (Yoke Gear End)(5/8-18 Thin Nylock Steel)	1	08-091105002
22	Washer (Yoke Gear End)	1	08-121100002
23	Pinion Gear	1	01-4538
24	Bearing Cone (Pinion Bearing)	1	10-1021
25	Bearing Cup (Pinion Bearing)	1	10-2022
26	Pinion Hub Shims	1	01+2548-X
27	Bearing Cup (Pinion Bearing)	1	10-2024
28	Bearing Cone (Pinion Bearing)	1	10-1023
29	Yoke Gear End Shims	Kit	01-2020-X
30	Pinion Shoulder Washer	1	01-2241
31	Yoke Gear End Seal	1	11-3029
32	Pinion Seal Carrier	1	01-2240

UPPER GEAR CASE-ASSEMBLY

NOTE: Optimum performance of the upper gear case requires “setting up” the pinion & clutch gears with IMCO procedure as follows:

1. Take all measurements using the “SCXTSetup Diagrams” (Fig 3) and the “SCXT Work Sheet” (Fig 4).
2. After all measurements are taken and proper race thickness has been determined, place lower race [2-6] and thrust bearing [2-7] in case.
3. Place lower right or left driven gear [2-13] with attached tool (backlash tower 01-5598) into case.
4. Adjust rolling preload (8-10 in/lbs) on pinion gear by changing Yoke Gear End Shims [2-28]. Tighten nut [2-21] to 75 ft/lbs.
5. After proper rolling preload is determined, assemble pinion pack with pinion retainer nut “O” ring [1-20] between pinion seal carrier [2-31] and retainer nut [2-16].
6. Torque retainer nut to 200 ft/lbs. (Tool: Pinion Retainer Nut Driver 01-5590). (Torque wrench centered on retainer nut or if using longer tool be sure to compensate on torque value). Use new lock nut [2-21] and torque to 75 ft/lbs.
7. Install pinion pack using 4 screws [1-23] for testing.
8. Install dial indicator (indicator bracket 01-5588) and pinion gear locking tool (pinion gear lock 01-5587) Fig-5.
9. Check backlash, adjust backlash with pinion hub shims [2-18] (average backlash should be .007-.008+).
10. Right Hand: Place driven gear [2-13] on thrust race [2-6] and thrust bearing [2-7]. Install one gear spacer [2-11] on each side of vertical shaft [2-12], align to engage splines. Install vertical shaft and gear spacers (coupler spline down) through gear spline. **Make sure gear spacers are engaged!** Install gear replacement [2-10]. Install thrust bearing [2-7] and thrust race [2-6].
11. Left Hand: Place driven gear replacement [2-10] on thrust race [2-6] and thrust bearing [2-7]. Install one gear spacer [2-11] on each side of vertical shaft [2-12], align to engage splines. Install vertical shaft and gear spacers (coupler spline down) through gear spline. **Make sure gear spacers are engaged!** Install driven gear [2-13]. Install thrust bearing [2-7] and thrust race [2-6].
12. Install upper cap [2-3] temporarily using 4 screws [1-8].
13. Check for rolling preload. There should be only a 2-3 in/lbs of rolling preload, no end play.

Warning Note: When checking gear stack rolling. Stack should never be larger than case to seat! Check work sheet measurements! Damage can be caused to bearings or races!

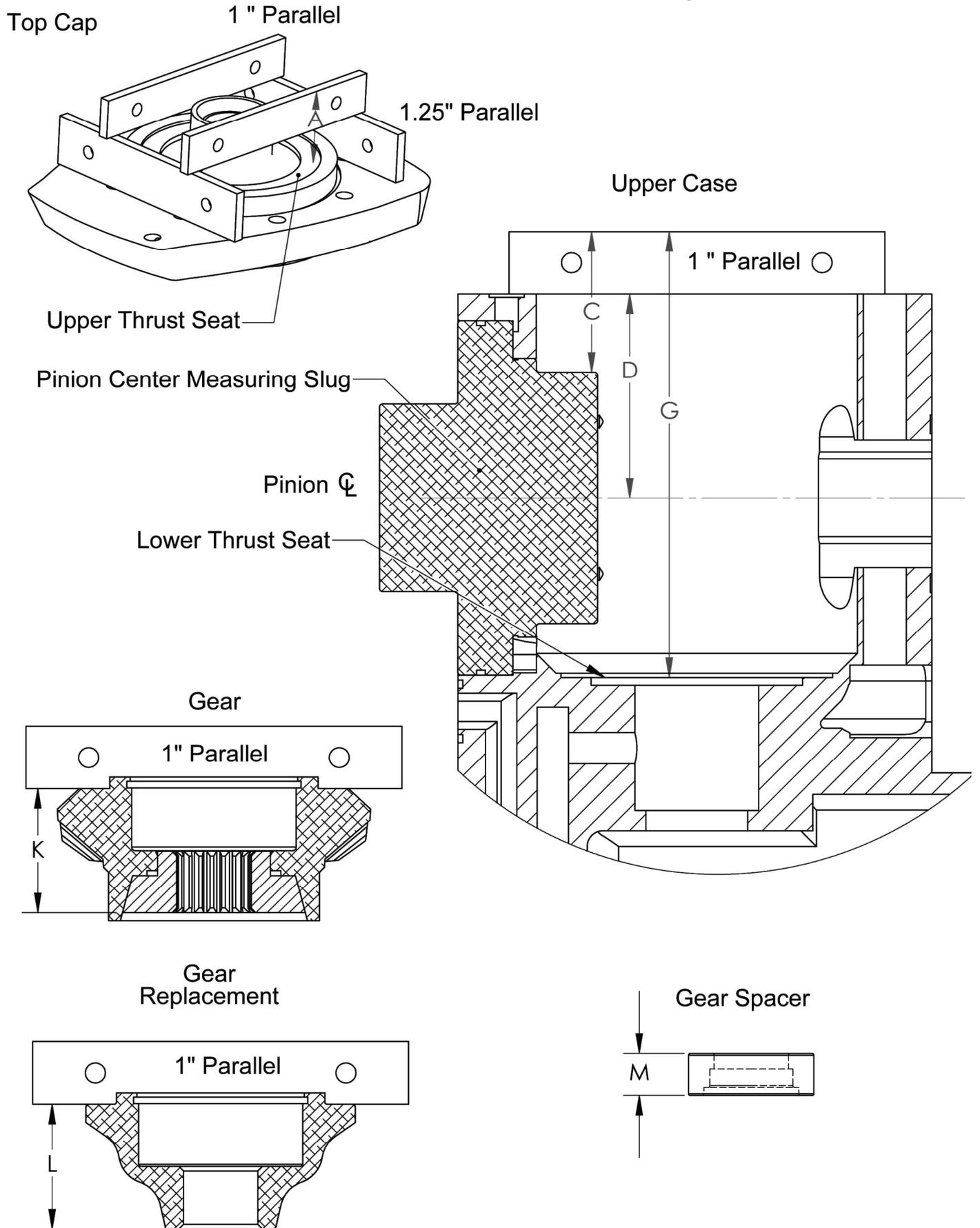
14. Rolling preload can be adjusted by changing race [2-6] on the gear replacement side.
15. Once rolling preload is set, remove upper cap [2-3].
16. Install quad ring [1-10] in case [1-1], install “O” Ring [1-29] and “O” Ring [1-30] in steering cap [1-2].
17. Install steering cap [1-2] using screws [1-28]. Use “Perfect Seal” on threads and torque screws to 35 ft/lbs.

UPPER GEAR CASE-ASSEMBLY

18. Install quad ring [1-12] in steering cap. "O" Ring [1-14] in upper case.
19. Install "O" Ring [1-13] on upper cap [1-3] and install upper cap with screws {1-7,8}

(important: short screws [1-8] in 2 front & 2 rear holes, long screws [1-7] in 2 port & 2 starboard holes). Torque upper cap screws to 25 ft/lbs.
20. Install oil tank cover [1-43], oil tank gasket [1-42] with "Permatix Form-Gasket. (note; use a very thin layer on gasket) oil tank cover screws [1-41] with "Loctite 242", torque to 10 ft/lbs.

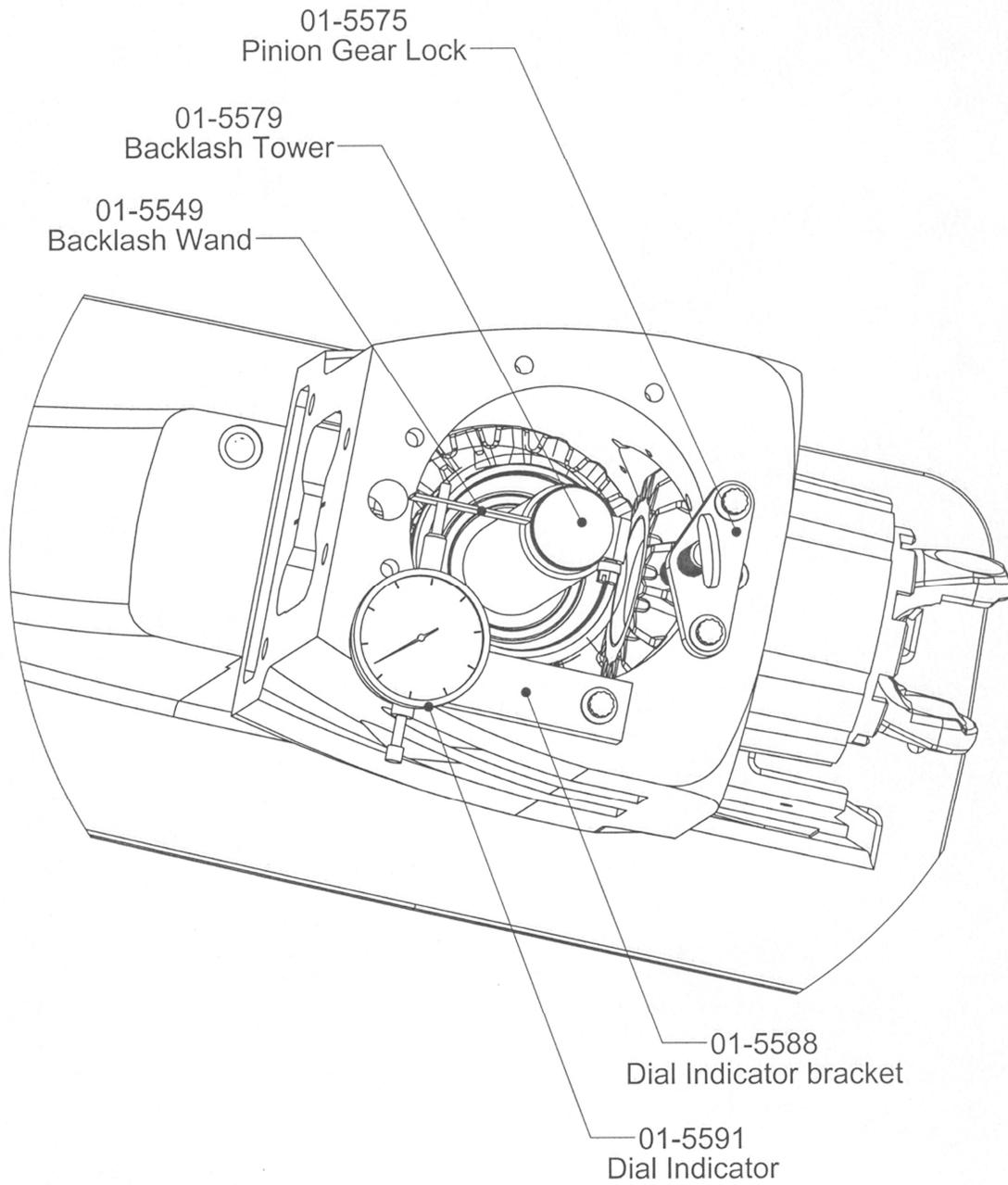
SCXT Setup Diagrams Fig-3



SCXT, SCX4T WORK SHEET				Serial #	
				UPPER CAP	
	Parallels			2.250	
	Measurement	A	-		Norm 1.862
Cap Deck to Thrust Seat	Total	B	=		Norm 0.388
				DECK TO PINION CENTERLINE	
Deck to Tool	Measurement	C			Norm 2.252
	Less Parallel		-	1.000	
	Total				Norm 1.252
	Plus 1/2 tool		+	2.012	
Deck to Pinion CL	Total	D	=		Norm 3.264
				UPPER THRUST SEAT	
Deck to Pinion CL		D			Norm 3.264
		B	-		Norm 0.388
Pinion CL to Upper Thrust Seat	Total	E	=		Norm 2.876
	Bearing Thickness		-	0.157	
	Mounting Distance		-	2.659	
	Race Thickness	F	=		Norm 0.060
				LOWER THRUST SEAT	
	Measurement	G			Norm 7.138
	Parallel		-	1.000	
Deck to Lower Thrust Seat	Total		=		Norm 6.138
Deck to Pinion CL		D	-		Norm 3.262
Pinion CL to Lower Thrust Seat	Total	H	=		Norm 2.876
	Bearing Thickness		-	0.157	
	Mounting Distance		-	2.659	
	Race Thickness	J	=		Norm 0.060
				GEAR MEASUREMENTS	
Gear	Measurement	K			Norm 1.988
Gear Replacement	Measurement	L			Norm 1.990
	Total	M	=		Norm 3.978
				GEAR ASSEMBLY	
Gear & Gear Replacement	Total	M	+		Norm 3.978
	Race Thickness	F	+		Norm 0.060
	Race Thickness	J	+		Norm 0.060
	2 x Bearing Thickness		+	0.314	
Gear Spacer	2 x Spacer Thickness	M	+		Norm 1.340
Gear Assembly	Total	O	=		5.752
				CAP CRUSH	
Pinion CL to Upper Thrust Seat		E	+		Norm 2.876
Pinion CL to Lower Thrust Seat		H	+		Norm 2.876
Upper Thrust Seat to Lower Thrust Seat	Total	P	=		Norm 5.752
Gear Assembly	Total	O	=		Norm 5.752

P and O are to match

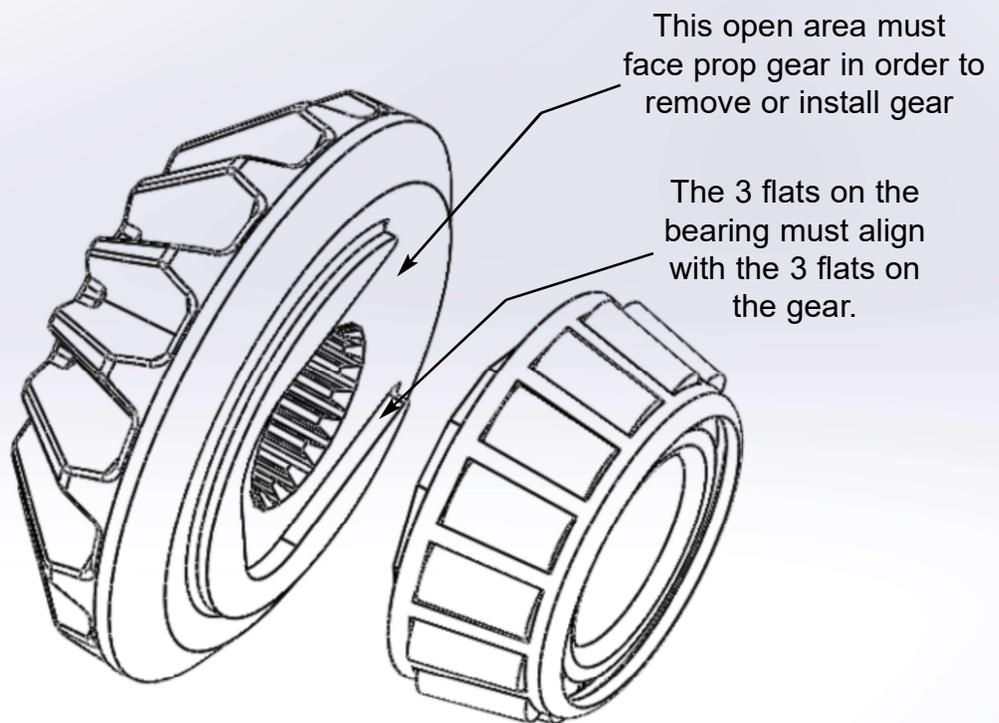
Backlash Assembly Fig-5

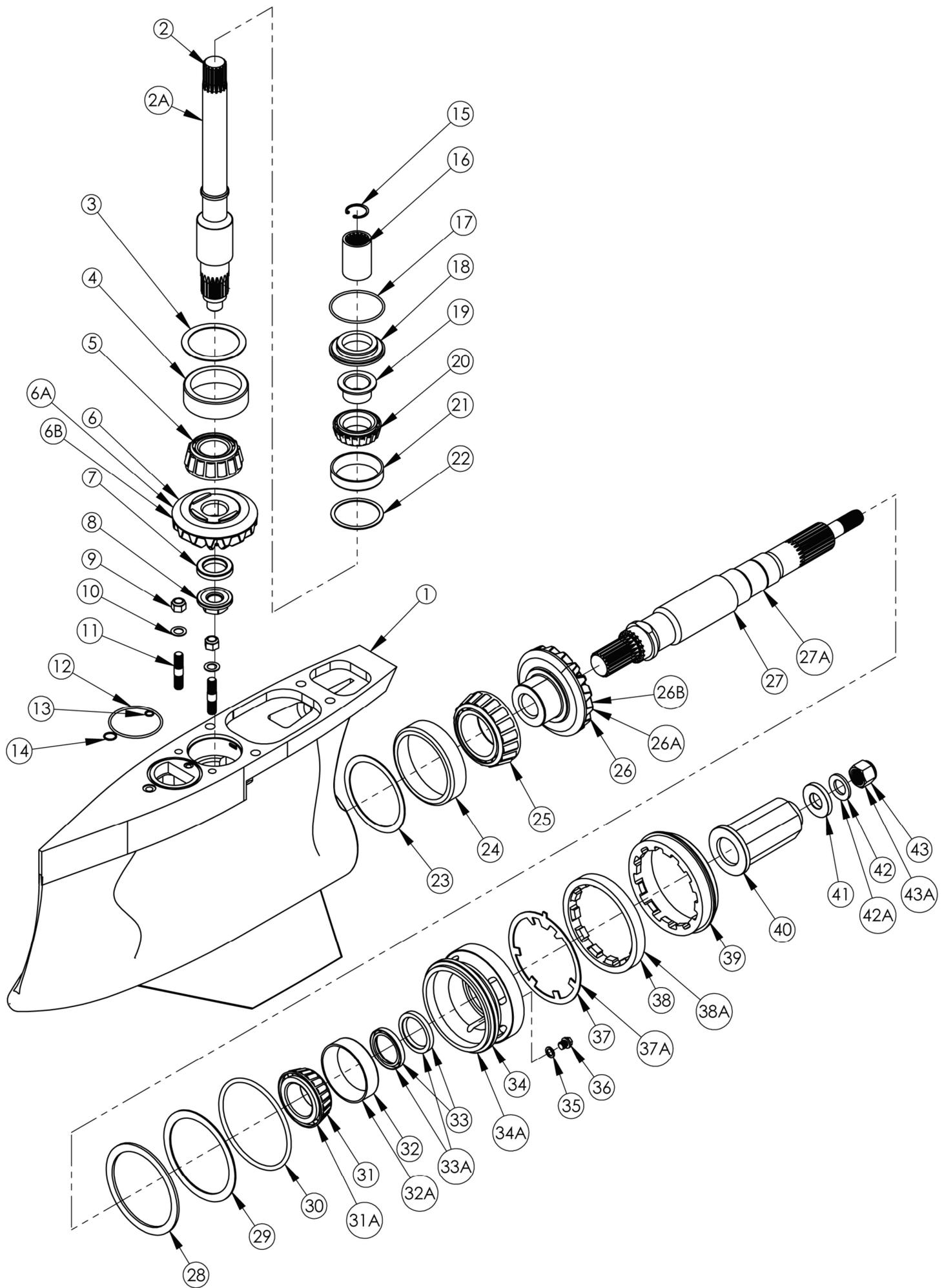


LOWER GEAR CASE-DISASSEMBLY

NOTE; The following instructions assume that the lower gear case has already been separated from the upper gear case. Brackets following the part name represent the drawing figure # and item #.

1. Remove prop adaptor ring [6-39]
2. Bend the tabs of the bearing carrier tab washer [6-37] away from the cover nut [6-38].
3. Remove cover nut [6-38]
4. Remove bearing carrier [6-34]
5. Remove bearing carrier thrust washer [6-28], bearing carrier shims [6-29] & bearing carrier "O" ring [6-30].
6. Align flats on prop shaft [6-27] to clear pinion gear nut [6-8] remove prop shaft.
7. Remove pinion gear nut [6-8] & pinion gear spud washer [6-7].
8. Remove vertical shaft [6-2].
9. Rotate pinion gear to align bearing driver lugs on pinion gear to align with flats on pinion bearing (see detail below) and remove pinion gear [6-6].
10. Remove prop gear [6-26].





Lower Gear Case Fig-6

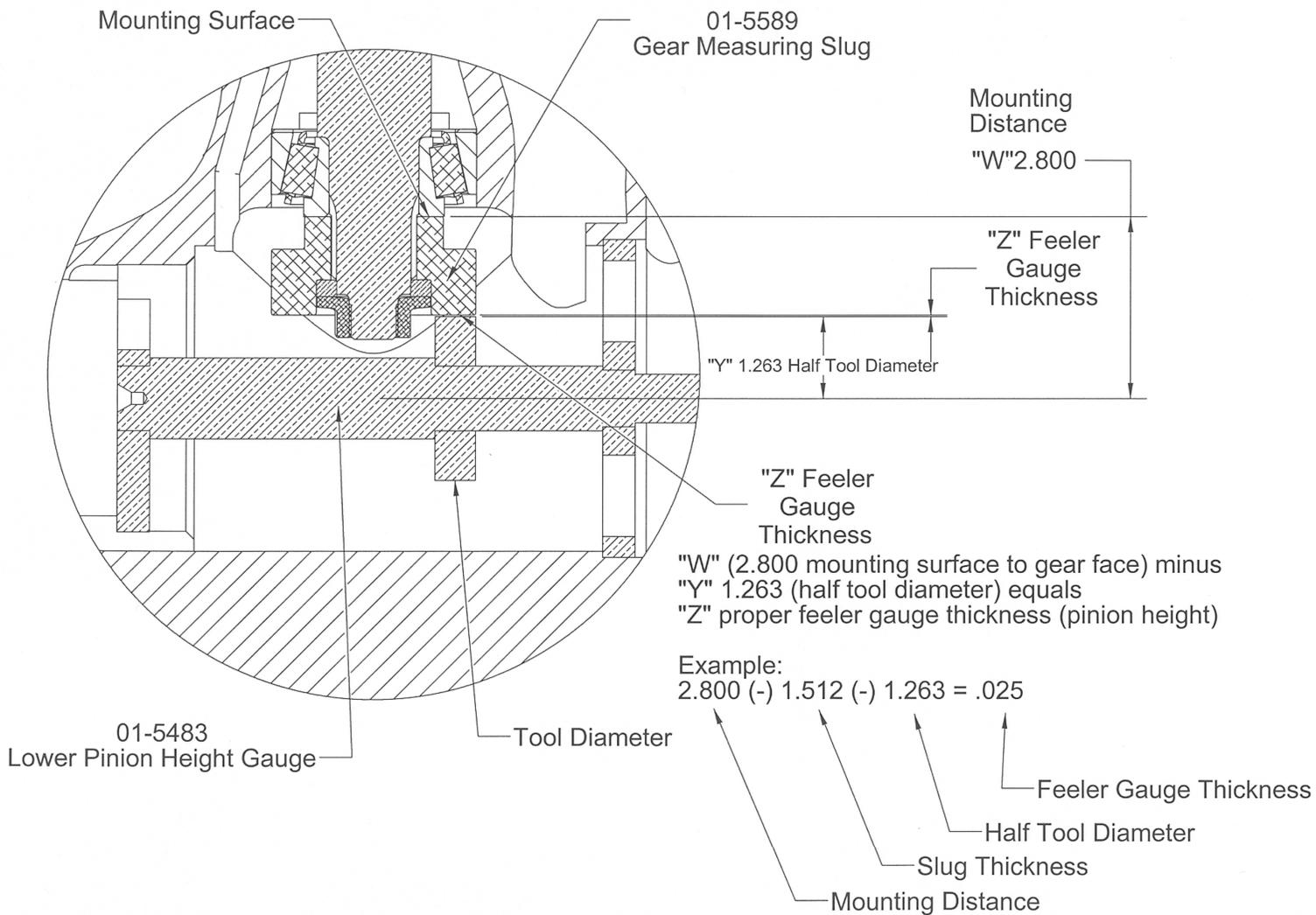
Item	Description	Qty	Part Number
1	Lower Case	1	01-1400
2	Vertical Shaft	1	01-3567
3	Shim (Pinion Gear)	Kit	01-2394-X
4	Cup (Pinion Gear)	1	10-2037
5	Bearing Cone (Pinion Gear Modified)	1	10-1036
6	Pinion Gear (1:50)	1	01-4563
6A	Pinion Gear (1:34)		01-4565
6B	Pinion Gear (1:25)		01-4597
7	Pinion Gear Spud Washer	1	01-2404
8	Nut (Pinion Gear)	1	01-2397
9	Nut (7/16-20 Nylock S/S)	2	08-080904001
10	Washer (7/16" AN S/S)	2	08-100900001
11	Stud (7/16 x 2" S/S)	2	08-130904121
12	"O" Ring (Water Passage)	1	11-2143
13	"O" Ring (PTFE Oil Passage)	1	11-4011
14	"O" Ring (Cooling Water Passage)	1	11-2014
15	Retainer Ring (Vertical Shaft Coupler)	1	08-211700001
16	Vertical Shaft Coupler	1	01-2140
17	"O" Ring (Alignment Spacer)	1	11-2144
18	Alignment Spacer	1	01-2401
19	Vertical Shaft Bearing Sleeve (2 halves)	1set	01-2400
20	Bearing Cone (Vertical Shaft)	1	10-1034
21	Bearing Cup (Vertical Shaft)	1	10-2036
22	Shim (Vertical Shaft)	Kit	01-2396-X
23	Shim (Prop Gear)	Kit	01-2395-X
24	Bearing Cup (Prop Gear)	1	10-2031
25	Bearing Cone (Prop Gear)	1	10-1030
26	Prop Gear (1:50)	1	01-4564
26A	Prop Gear (1:34)		01-4566
26B	Prop Gear (1:25)		01-4598
27	Prop Shaft 1 7/16"	1	01-3571
27A	Prop Shaft #6		01-3446
28	Bearing Carrier Thrust Washer	1	01-2392
29	Shim (Bearing Carrier)	Kit	01-2393-X
30	"O" Ring (Bearing Carrier)	1	11-2349
31	Bearing Cone (Bearing Carrier)	1	10-1035
31A	Bearing Cone (Bearing Carrier #6)		10-1038
32	Bearing Cup (Bearing Carrier)	1	10-2035
32A	Bearing Cup (Bearing Carrier #6)		10-2040
33	Seal (Prop Shaft 1 7/16")	2	11-3037
33A	Seal (Prop Shaft #6)		11-3038
34	Bearing Carrier (1 7/16" Prop Shaft)	1	01-2398
34A	Bearing Carrier (#6 Prop Shaft)		01-2447
35	Drain Screw Sealing Washer	1	11-1017
36	Drain Screw	1	01-2504
37	Tab Washer (1 7/16" Prop Shaft)	1	01-2403
37A	Tab Washer (#6 Prop Shaft)		01-2498
38	Cover Nut (1 7/16" Prop Shaft)	1	01-2402
38A	Cover Nut (#6 Prop Shaft)		01-2492
39	Prop Adaptor Ring	1	01-2399
40	Prop Adaptor (1 7/16" Prop Shaft)	1	01-3569
41	Thrust Washer (3/4" Heavy)	1	01-6579
42	Washer (3/4" Spring)	1	08-221300001
42A	Washer (1" Spring, #6 Shaft)		08-221700001
43	Nut (3/4-16 Nylock, Brass)	1	08-081306003
43A	Nut (1-12 Nylock, Brass, #6 Shaft)		08-081712003

LOWER GEAR CASE-ASSEMBLY

Note: Optimum performance of lower gears requires pinion height setup, use “lower pinion gear height instruction sheet” fig 7.

1. Install pinion gear bearing cup [6-4] with pinion gear shim [6-3] and vertical shaft bearing cup [6-21] with vertical shaft shim [6-22] in case.
2. Install modified pinion gear bearing [6-5] into cup.
3. Install pinion gear measuring slug (01-5589) onto pinion gear bearing.
4. Install vertical shaft [6-2] with vertical shaft bearing sleeves [6-19], and vertical shaft bearing [6-20] (preinstalled).
5. Install pinion gear spud washer [6-7] into pinion gear measuring slug.
6. Install pinion gear nut [6-8] and torque to 150 ft/lbs.
7. Set rolling preload of pinion gear by adjusting shim [6-3], and [6-22], (8-10 in/lbs.)
8. Once preload is set adjust pinion height by either removing or adding shim to upper bearing cup [6-21] and removing or adding equal shim to lower bearing cup [6-4]. Pinion height is set using feeler gauges and “Lower Pinion Height Gauge 01-5483 and “Gear Measuring Slug” 01-5589 as shown in fig 7.
9. Once preload and pinion height is correct, remove pinion gear measuring slug and vertical shaft.
10. Install prop gear shim [6-23] and prop gear bearing cup [6-24].
11. Install prop gear [6-26], with bearing installed [6-25].
12. Reinstall pinion gear bearing with flats aligned to accept pinion gear (see page 11), pinion gear, spud washer and nut. Torque to 150 ft/lbs.
13. Temporarily install prop shaft [6-27] with bearing cone [6-31], bearing carrier thrust washer [6-28] bearing carrier [6-34] with bearing cup [6-32], tab washer [6-37], and cover nut [6-38], torque to 150 ft/lbs for backlash testing.
14. Check backlash and adjust by changing prop gear shim to achieve .006-.008 average.
15. Once backlash is established, remove cover nut, tab washer, bearing carrier, thrust washer, and prop shaft.
16. Remove pinion nut, clean and reinstall with Loctite 262, torque to 150 ft/lbs.
17. Reinstall prop shaft, thrust washer, bearing carrier shims [6-29], (install enough shims to insure there is “prop shaft end play”), install bearing carrier, tab washer, and cover nut (torque cover nut to 200 ft/lbs, apply oil to threads to avoid galling).
18. Measure “end play” and remove enough shims to achieve 24-26 in/lbs total rolling preload with seals installed in bearing carrier. (Be very careful not to remove too many shims and get a false preload reading).
19. Once rolling preload is achieved, remove cover nut, tab washer, and bearing carrier.
20. Install “O” ring [6-30], bearing carrier (apply “Perfect Seal” around “O” ring, outside of bearing carrier, and threads of cover nut),
21. Install tab washer, and cover nut.
22. Torque cover nut to 200 ft/lbs.
23. Bend one tab on tab washer to engage with one of the slots in the cover nut.
24. Install prop adaptor ring [6-39] (apply “Perfect Seal” to threads) and torque to 200 ft/lbs.

Lower Pinion Height Measurements Fig-7



W 2.800

X- _____

Y- _____

Disassembly-Assembly Tools

SCXT Upper

Tower & Cap Race Puller Kit	01-5443
Tower Internal Bearing Puller Kit	01-5445
Tower Removal Tool Kit	01-5448
Pinion Retainer Nut Driver	01-5590
Pinion Center Measuring Slug	01-5583
Pinion Bearing Cup Installer (Front)	01-5580
Pinion Bearing Cup Installer (Back)	01-5592
Bearing & Race Installer (Cap)	01-5581
Bearing & Race Installer (Tower)	01-5582
Backlash Tool Kit	01-8017
A. Backlash Tower	01-5579
B. Indicator Bracket	01-5588
C. Pinion Gear Lock	01-5587
D. Backlash Wand	01-5449
E. Dial Indicator	01-5591

SCX Lower

Cover Nut Wrench Kit	01-5441
Cover Nut Wrench #6 Kit	01-5490
Lower Pinion Height Gauge	01-5483
Vertical Shaft Bearing Cup Puller Kit	01-5460
Prop Gear Cup Puller Kit	01-5467
Pinion Gear Cup Puller Kit	01-5452
Lower Pinion Cup & Vertical Shaft Cup Installer Kit	01-5439
Prop Gear Cup Installer Kit	01-5469
Prop Shaft Seal Driver Kit	01-5478
Prop Shaft Seal Driver #6 Kit	01-5438
Bearing Carrier Cup Installer	01-5477
Bearing Carrier Cup Installer #6	01-5489
Gear Measuring Slug	01-5589