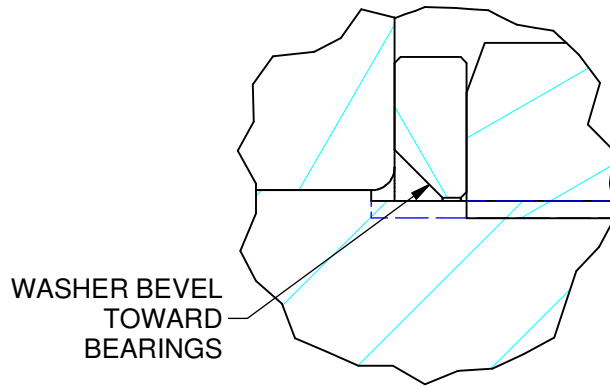


NOTICE: IF THE MACHINE BEING REPAIRED HAS A CASTLE NUT & COTTER PIN, SEE PAGE 2 OF 2 FOR INSTALLATION PROCEDURES.

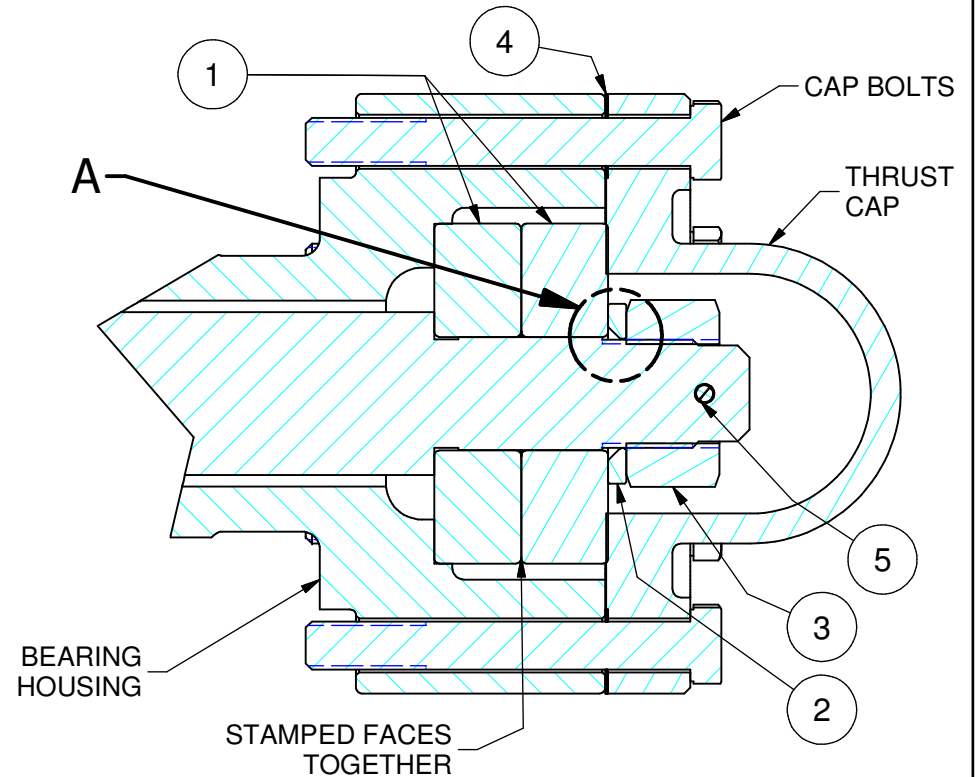
ITEM	QTY	DESCRIPTION	KIT #34-203	KIT #44-203	KIT #54-203	KIT #64-203	KIT #74-203	
1	1	THRUST BEARING SET	#7405	#7406	#7407	#7409	#7413	
2	2	WASHER	33-074	43-074	53-074	63-074	74-074	
3	1	SLOTTED NUT	34-076	43-076	53-076	63-076	74-076	
4	8	GASKET/SHIM	34-087	43-087	53-087	63-087	74-087	
5	1	COTTER PIN	3/16 x 1.75"					
6	1	THREAD LOCKER	LOCTITE #243 or PERMATEx BLUE PX#24325 (Not Shown)					

H-W STOPPED USING CASTLE NUTS & COTTER PINS IN APPROXIMATELY OCTOBER 2001 (CONTRACT #A13999 & OLDER).

If the machine being repaired has a Jam Nut and Lock Collar, see Document E-126 for instructions.



**DETAIL A
SCALE 2 : 1**



		C	UPDATE, LOCTITE #243 WAS #2440, PUR #1034	LTL 12/12/18
		B	OIL SPECIFICATION UPDATE, PUR #518	LTL 9/10/12
		A	ADD PERMATEx, PUR #439	LTL 2/14/11

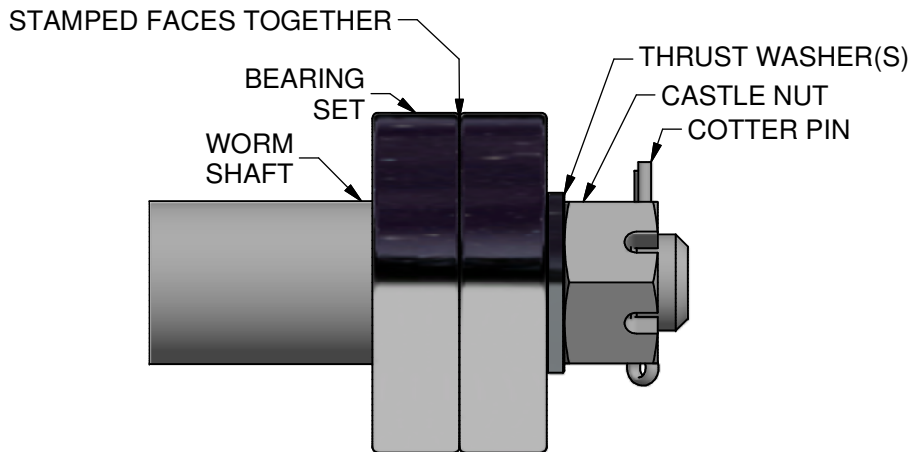
**HOLLISTER-WHITNEY
ELEVATOR CO. LLC**

TITLE
**PARTS LIST & INSTALLATION INSTRUCTION - #7400
SERIES THRUST BEARING w/CASTLE NUT**

THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.

THIRD ANGLE PROJECTION

DRAWN BY LTL	SCALE 1 : 1	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
SHEET SIZE A		DATE 6/19/2003	E-127 SHEET 1 OF 2



Machine	Thrust Bearing	CONDITIONING Worm Threads, Nut Torque	FINAL Worm Nut Torque	Thrust Cap Bolt Torque
34	#7405	250 ft-lbs	75 ft-lbs	23 ft-lbs
43/44	#7406	350 ft-lbs	95 ft-lbs	55 ft-lbs
53/54	#7407	350 ft-lbs	125 ft-lbs	55 ft-lbs
63/64	#7409	350 ft-lbs	200 ft-lbs	110 ft-lbs
74	#7413	550 ft-lbs	375 ft-lbs	200 ft-lbs

1. Drain and thoroughly clean gear housing, thrust bearing housing, and thrust cap. The face of the shoulder on worm shaft must project beyond bearing face on bearing housing.
2. Place the STAMPED faces of outer races of thrust bearings together and assemble on worm shaft as shown.
3. Install washer(s) on worm shaft. Make sure the bore chamfer on washer is toward bearings. Install and torque nut according to the CONDITIONING TORQUE on chart above to condition the worm threads. *Back nut off and remove.*
4. Clean threads of nut and worm thoroughly with a non-oil based cleaner and let dry completely.
5. Apply provided Thread Locking Adhesive (Loctite #243 or Permatex Threadlocker Blue PX #24325) to worm threads where nut will be located.
6. Re-install nut and re-torque to the FINAL TORQUE value specified in the chart above. **NOTE:** If cotter pin hole does not line up with slots, tighten nut until hole is available - **DO NOT LOOSEN NUT.**
7. Install just enough shims between thrust cap and housing to eliminate ALL axial end play in worm shaft. Remove one shim and torque thrust cap bolts per chart (0.001" to 0.007" preload on outer races is recommended).
8. After unit is completely re-assembled, and before starting machine, fill gear housing to correct oil level with worm gear oil of approved specification (See Lubrication Instructions Bulletin #1150).
9. Before restoring car to service, slightly back off all thrust bearing cap bolts temporarily, and run EMPTY car for several trips. Re-tighten cap bolts to specified torque value and place car into regular service.

					HOLLISTER-WHITNEY			
					ELEVATOR CO. LLC			
					TITLE			
					PARTS LIST & INSTALLATION INSTRUCTION - #7400			
					SERIES THRUST BEARING w/CASTLE NUT			
					SEE PAGE 1 OF 2 FOR REVISION HISTORY			
THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY. THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.					THIRD ANGLE PROJECTION			
DRAWN BY		SCALE	MATERIAL		REFERENCE TOL.			
LTL		1 / 2	SEE PARTS LIST		ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED			
SHEET SIZE			DATE		E-127 SHEET 2 OF 2			
A			6/19/2003					