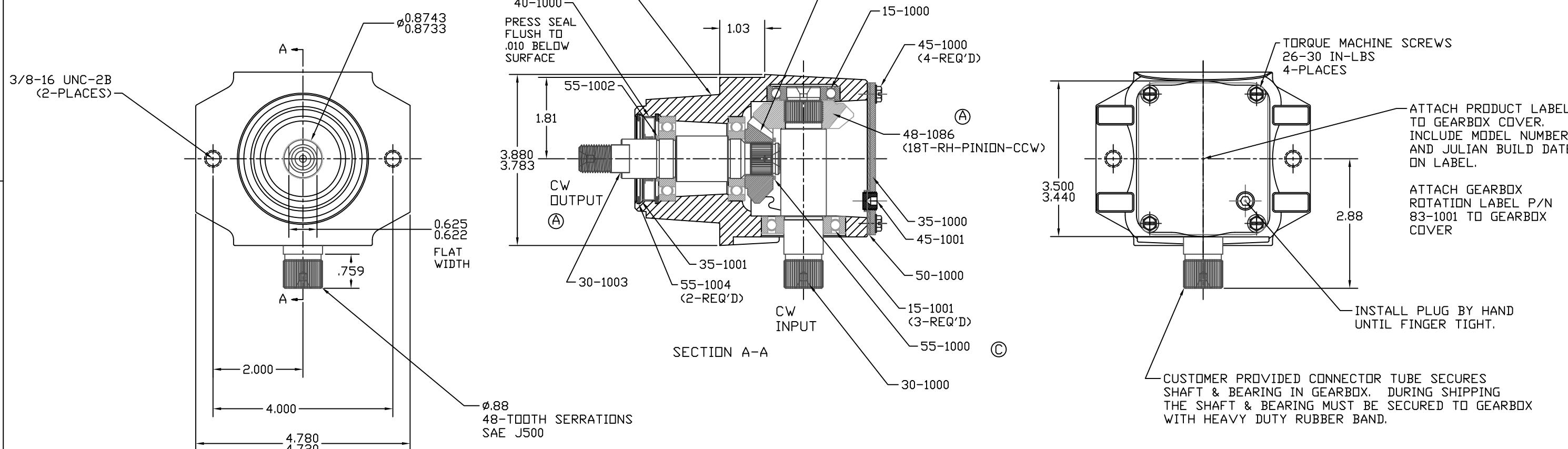


REVISIONS		
ZONE	REV	DESCRIPTION
B6	A	Added Db9a), Output Was Input, Added Gear & Pinion Info, 60-units was 50
C4	B	.623/.615 was .625/.615
	C	15-1000 was 15-1001

06.11.16
06.29.16
09.30.16



SHAFT 30-1003

HARDEN & DRAW TO Rc 40-45

BEARINGS

BEARING P/N 15-1000

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,369 LBS
- STATIC LOAD RATING 864.4 LBS

BEARING P/N: 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LBS
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

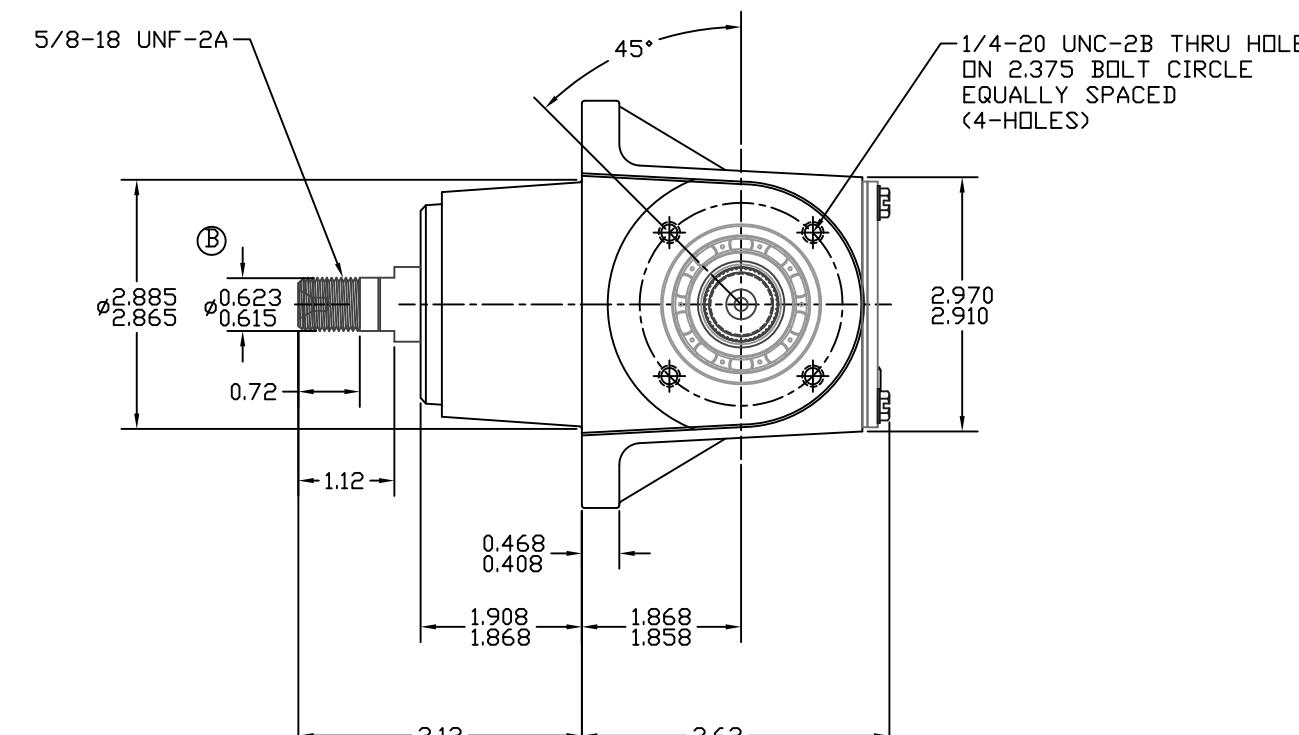
PENNZOIL SUPER MAXOL EP320

TEXACO MEROPA 320

GEARBOX SHIPPED WITHOUT LUBRICATION

GEARBOX SPECIFICATIONS

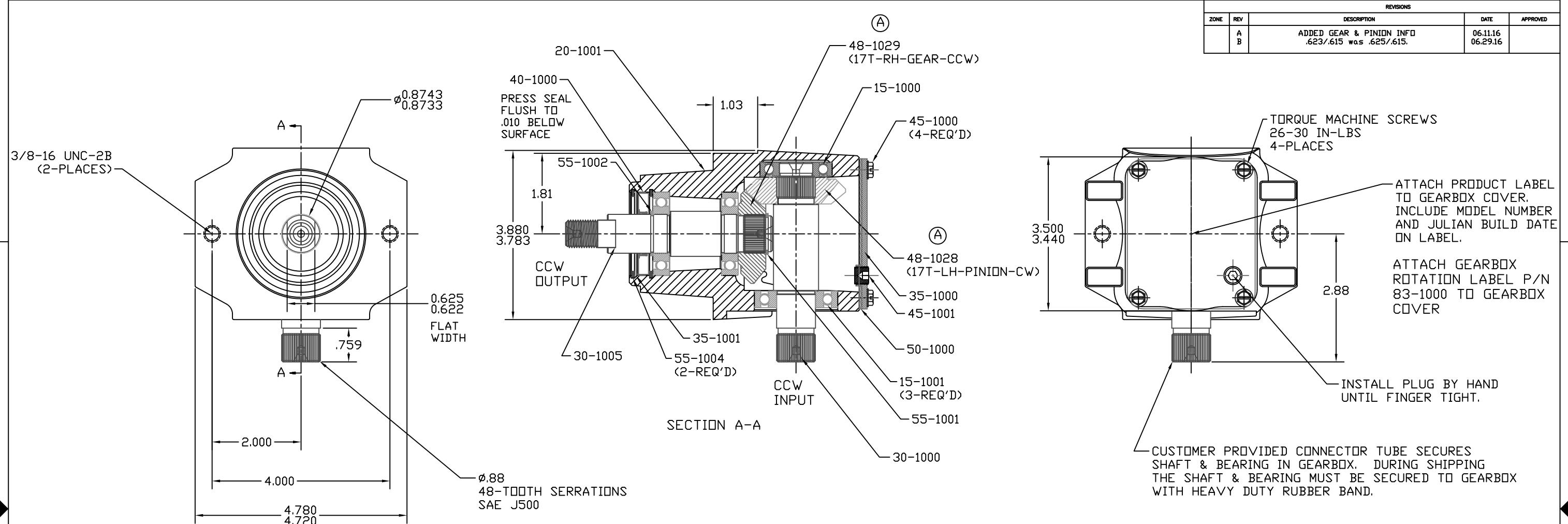
ROTATION TYPE: CW
ROTATION: INPUT: CW, OUTPUT: CW
GEAR RATIO: 1.2:1 INCREASE (A)
INPUT SPEED: 3,600 RPM (MAX.)
HORSEPOWER: 7.0 HP @ 3,600 RPM (MAX.)
STATIC TORQUE: 360 IN-LBS (MAX.)



REPLACES: LH
PEERLESS WALKER PRO-GEAR WALKER
1050-006A 5052-26 105-206
1000-095A 5052-2

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		J-Mac International, LLC P.O. Box 235 - Henryville, IN 47126	
REVISIONS			
SIZE	FSM NO.	DWG NO.	REV
Description: ZEROL RAD 1.2:1 Ratio	SCALE FULL	105-206	C
			SHEET

REVISED		
ZONE	REV	DESCRIPTION
	A B	ADDED GEAR & PINION INFO .623/.615 was .625/.615.
		DATE 06.11.16 06.29.16

SHAFT 30-1005

HARDEN & DRAW TO Rc 40-45

BEARINGS

BEARING P/N: 15-1000

- USE SST # R12 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,369 LBS
- STATIC LOAD RATING: 864.4 LBS

BEARING P/N 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LBS
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

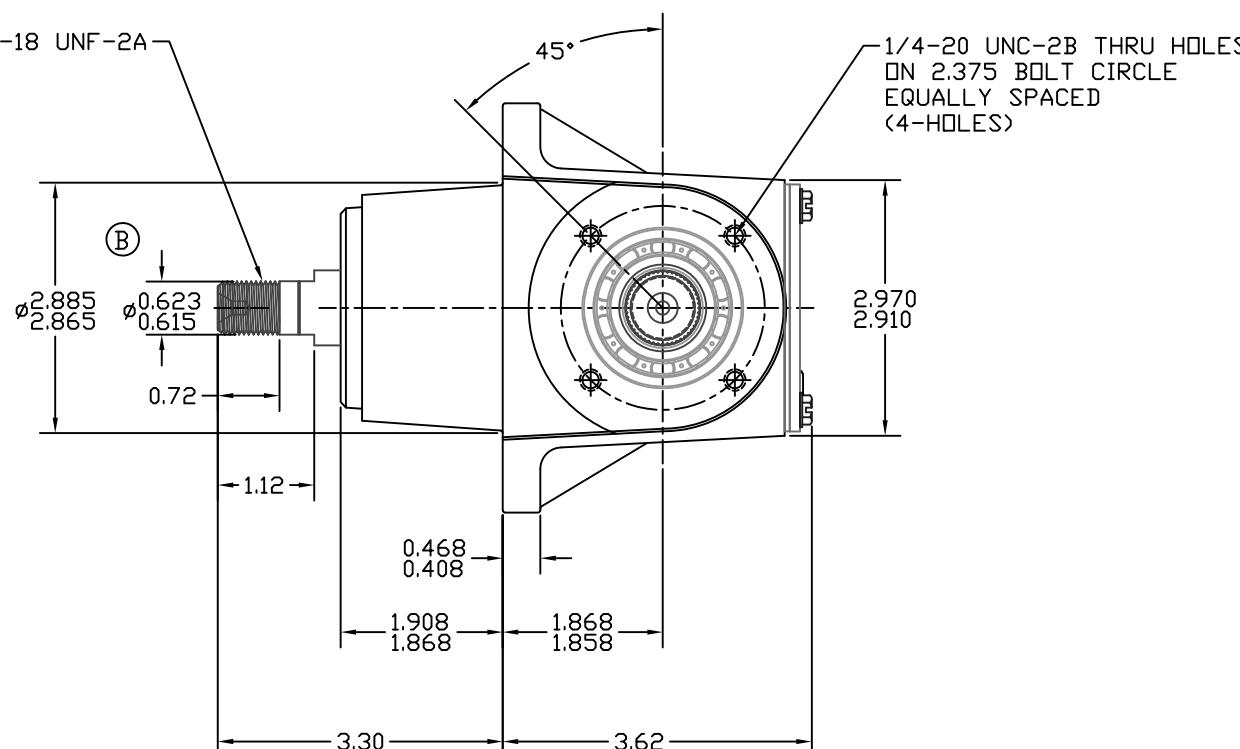
PENNZOIL SUPER MAXOL EP320

TEXACO MEROPA 320

GEARBOX SHIPPED WITHOUT LUBRICATION

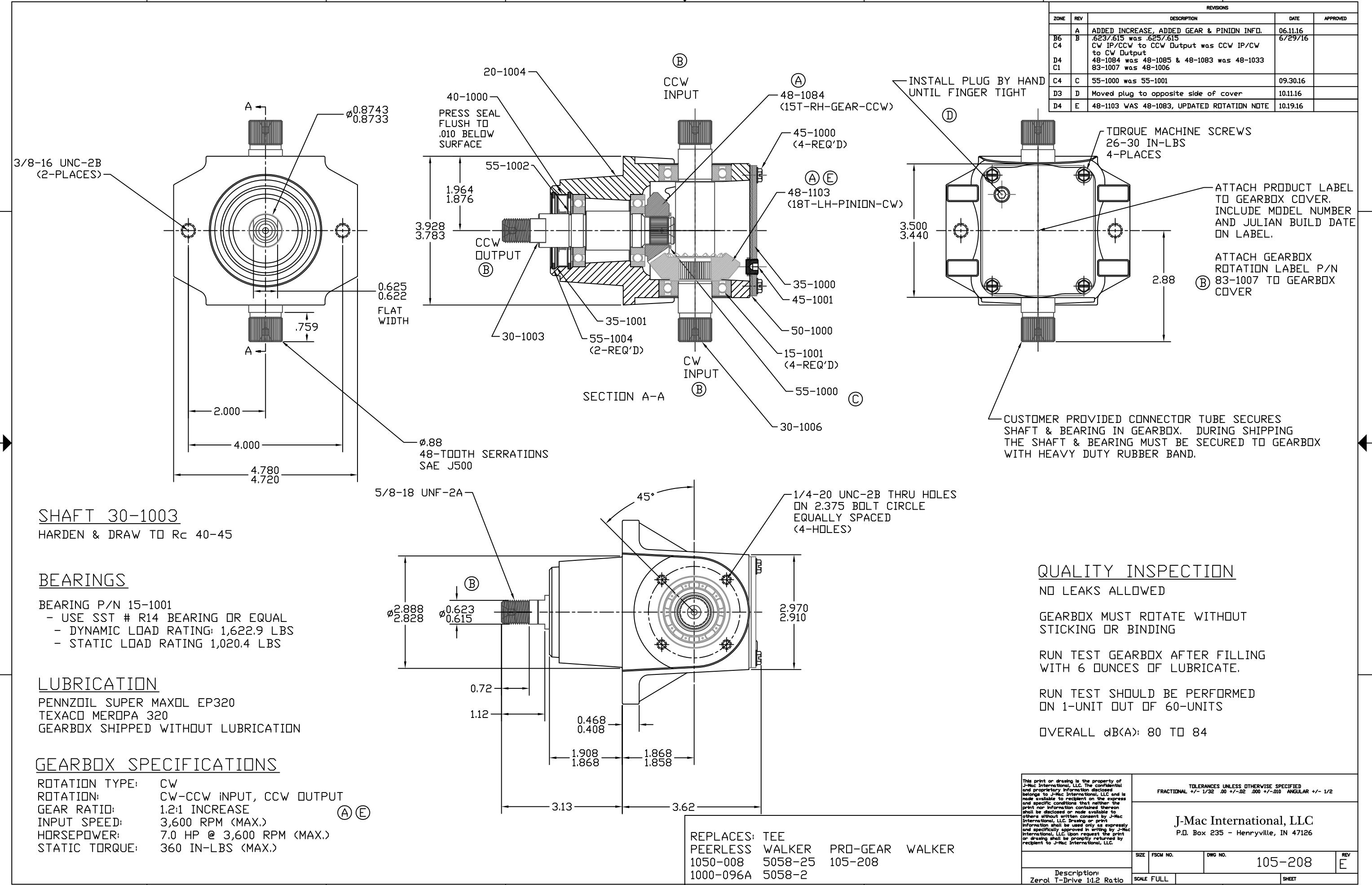
GEARBOX SPECIFICATIONS

ROTATION TYPE: CCW
 ROTATION: CCW INPUT, CCW OUTPUT
 GEAR RATIO: 1:1
 INPUT SPEED: 3,600 RPM (MAX.)
 HORSEPOWER: 7.0 HP @ 3,600 RPM (MAX.)
 STATIC TORQUE: 360 IN-LBS (MAX.)

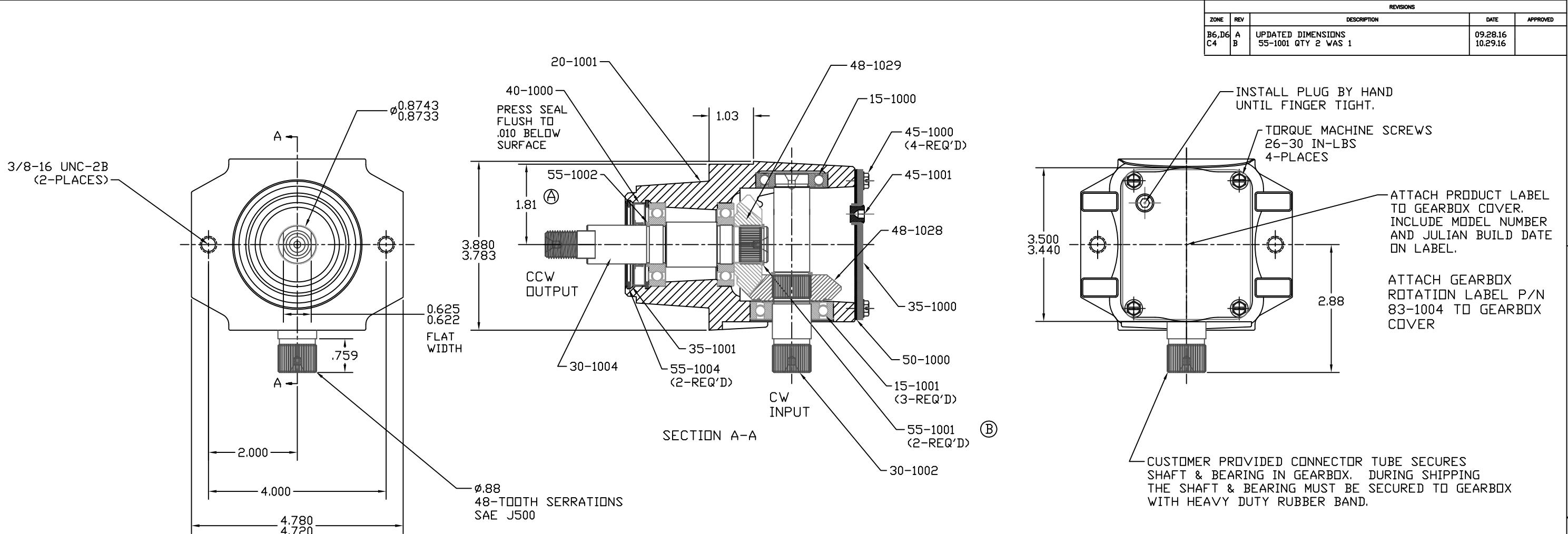


REPLACES: LH
 PEERLESS WALKER PRO-GEAR WALKER
 1050-007 5052-27 105-207
 1000-074A 5052-10

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL +/- 1/32 .000 +/- .002 .000 +/- .010 ANGULAR +/- 1/2		
J-Mac International, LLC P.O. Box 235 - Henryville, IN 47126		
SIZE	FSM NO.	DWG NO.
Description: ZERO L RAD 1:1 Ratio	SCALE FULL	105-207 REV B



REVISIONS		
ZONE	REV	DESCRIPTION
B6,D6 C4		UPDATED DIMENSIONS 55-1001 QTY 2 WAS 1
	B	09.28.16 10.29.16



SHAFT: 30-1004

HARDEN & DRAW TO Rc 40-45

BEARINGS

BEARING P/N: 15-1000

- USE SST # R12 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,367 LBS
- STATIC LOAD RATING: 864.4 LBS

BEARING P/N: 15-1001

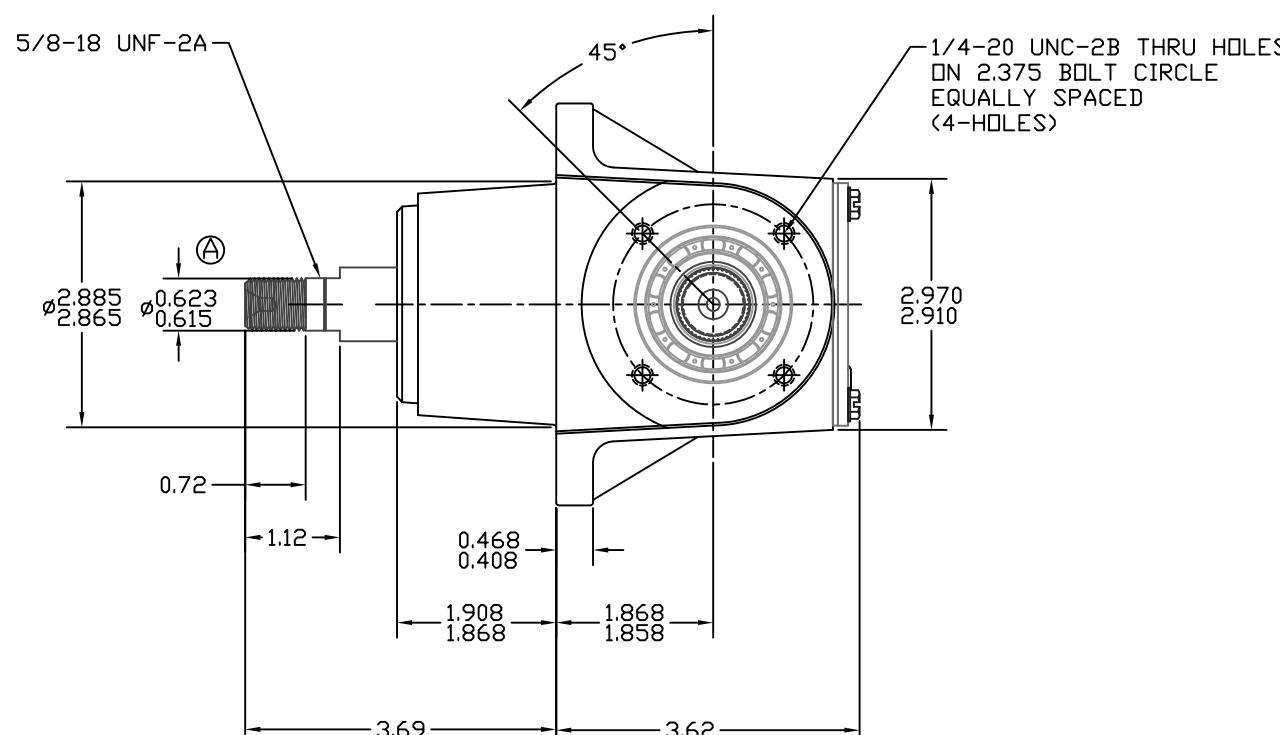
- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LBS
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

PENNZOIL SUPER MAXOL EP320
TEXACO MEROPA 320
GEARBOX SHIPPED WITHOUT LUBRICATION

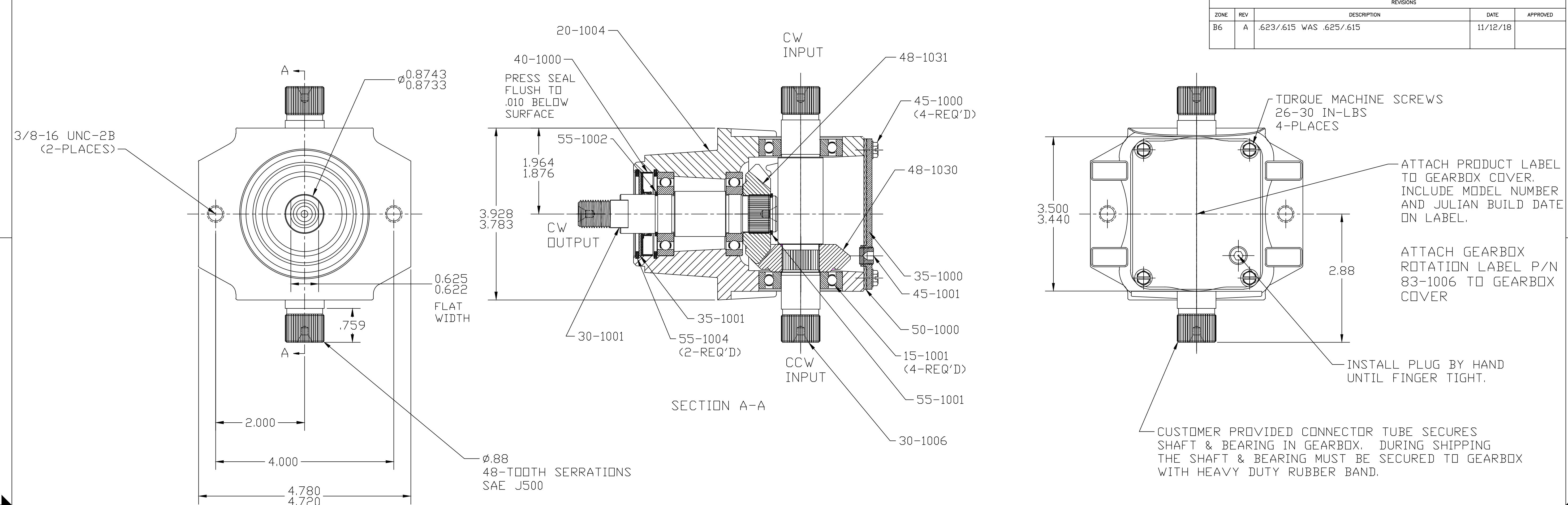
GEARBOX SPECIFICATIONS

ROTATION TYPE: CW
ROTATION: CW INPUT, CCW OUTPUT
GEAR RATIO: 1:1
INPUT SPEED: 3,600 RPM (MAX.)
HORSEPOWER: 7.0 HP @ 3,600 RPM (MAX.)
STATIC TORQUE: 360 IN-LBS (MAX.)



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J-Mac International, LLC P.O. Box 235 - Henryville, IN 47126			
SIZE	FSM NO.	DWG NO.	JM105-210
Description: ZERO RAD 1:1 Ratio	SCALE FULL	SHEET	REV B

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
B6	A	.623/.615 WAS .625/.615	11/12/18

**SHAFT 30-1001**

HARDEN & DRAW TO Rc 40-45

BEARINGS

BEARING P/N: 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LBS
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

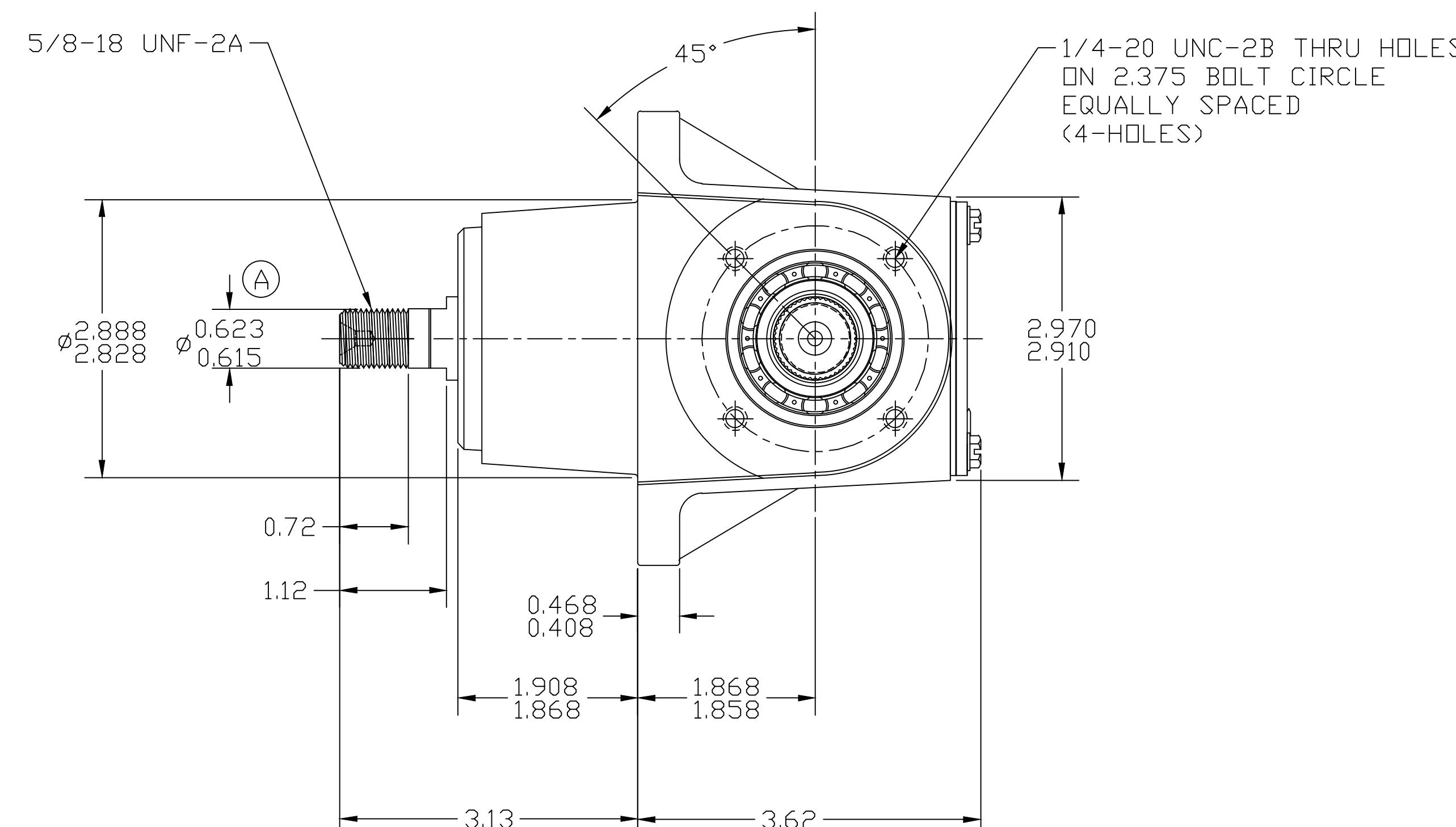
PENNZOIL SUPER MAXOL EP320

TEXACO MEROPA 320

GEARBOX SHIPPED WITHOUT LUBRICATION

GEARBOX SPECIFICATIONS

ROTATION TYPE: T-Drive
 ROTATION: CCW/CW
 GEAR RATIO: 1:1
 INPUT SPEED: 3,600 RPM (MAX.)
 HORSEPOWER: 7.0 HP @ 3,600 RPM (MAX.)
 STATIC TORQUE: 360 IN-LBS (MAX.)



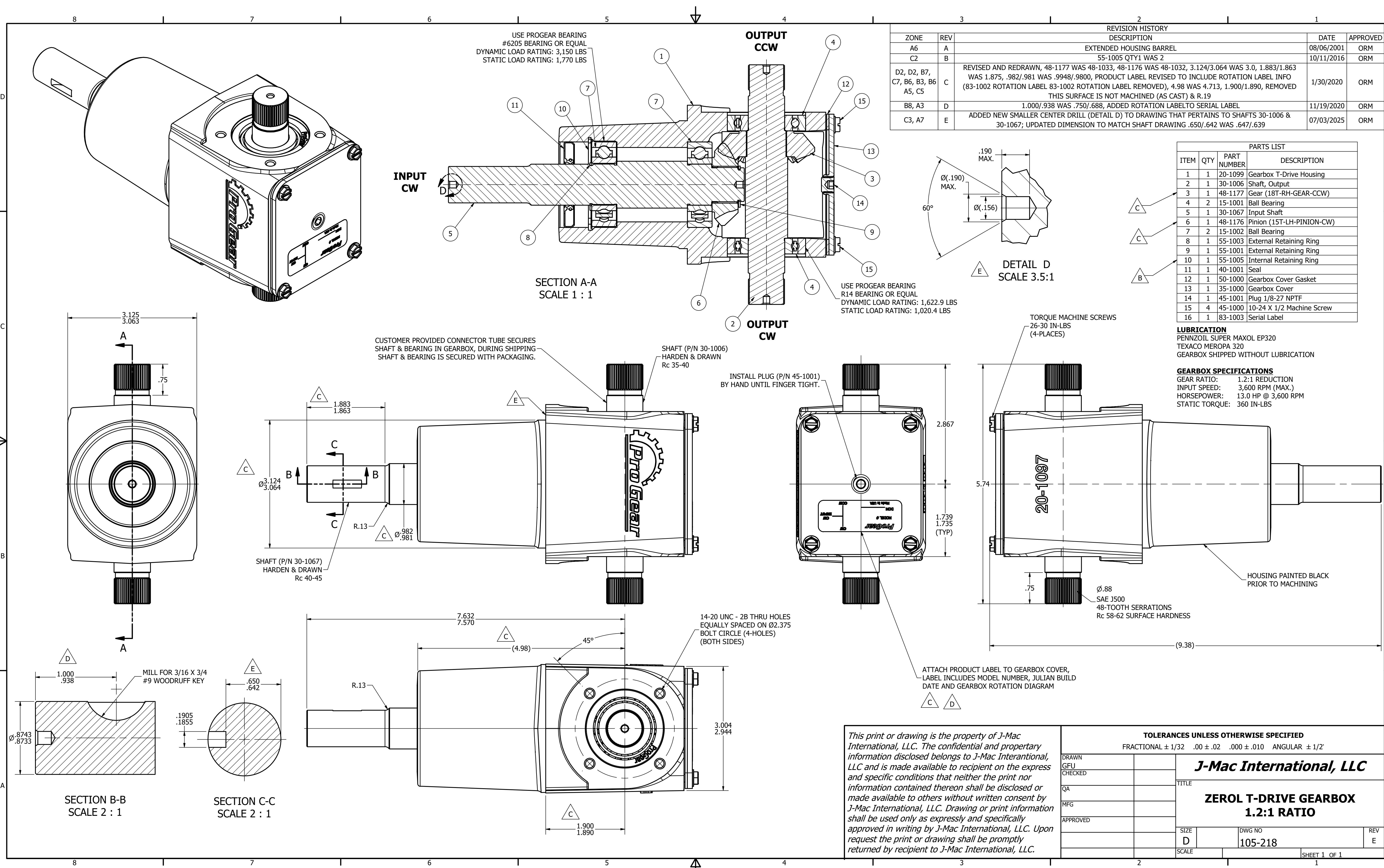
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TOLERANCES UNLESS OTHERWISE SPECIFIED
FRACTIONAL +/- 1/32 .00 +/- .02 .000 +/- .010 ANGULAR +/- 1/2

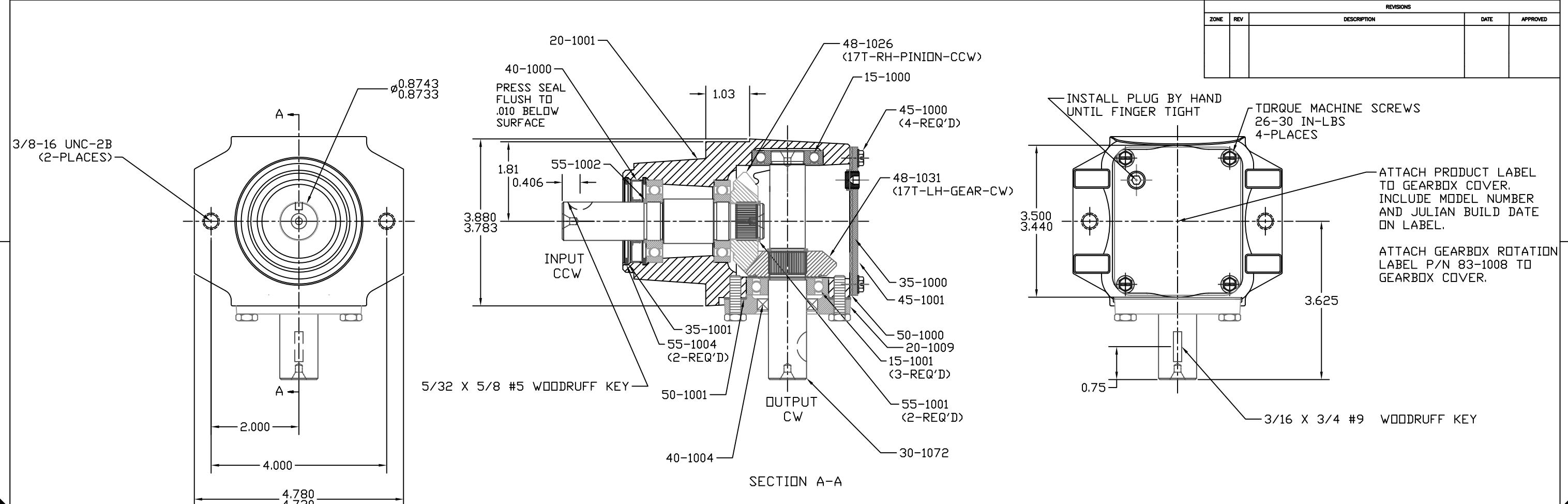
J-Mac International, LLC

P.O. Box 235 - Henryville, IN 47126

SIZE	FSCM NO.	DWG NO.	REV
Description: Zerol T-Drive w/ 1:1 Ratio	SCALE FULL	105-214	A



REVISIONS		
ZONE	REV	DESCRIPTION
DATE APPROVED		



BEARINGS

BEARING P/N: 15-1000

- USE SST # R12 BEARING OR EQUAL
- DYNAMIC LOAD RATING 1,369 LBS
- STATIC LOAD RATING 864.4 LBS

BEARING P/N: 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING 1,622.9 LBS
- STATIC LOAD RATING 1,020.4 LBS

LUBRICATION

PENNZOIL SUPER MAXOL EP320

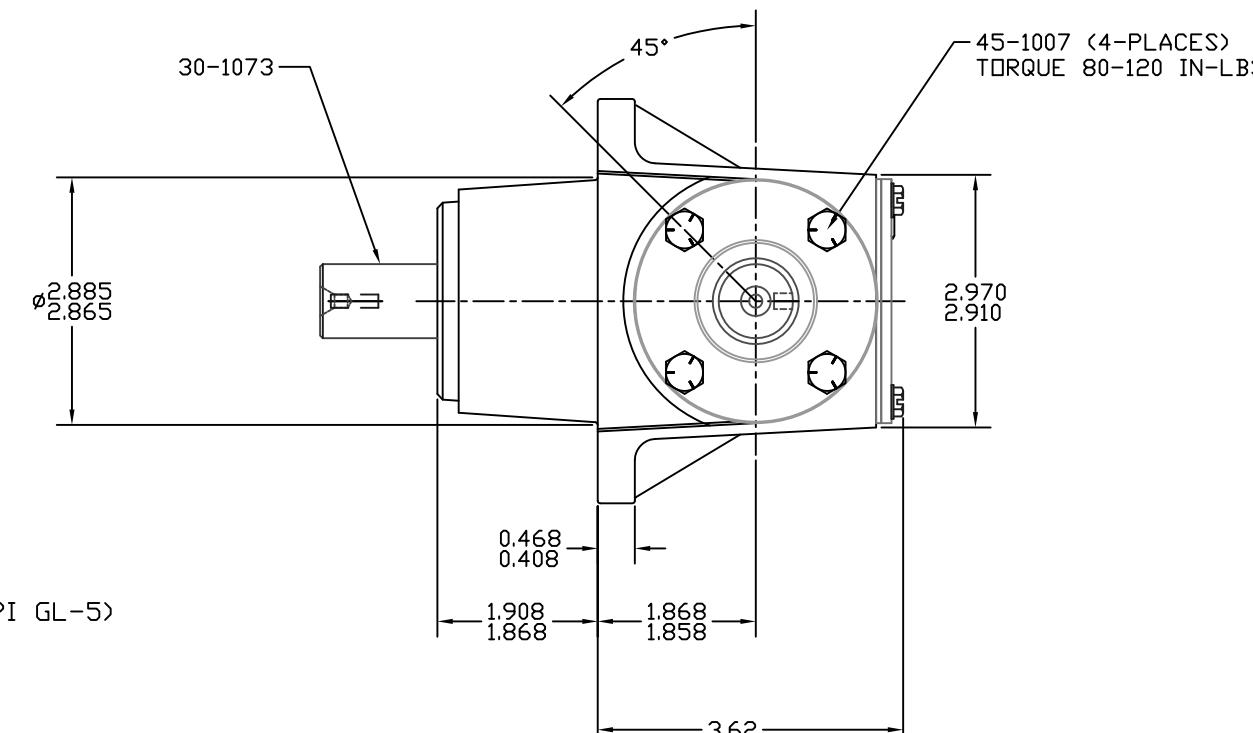
TEXACO MEROPA 320

INSTALL 6 OZ'S EXTREME PRESSURE 80W-90 (API GL-5)

GEARBOX SPECIFICATIONS

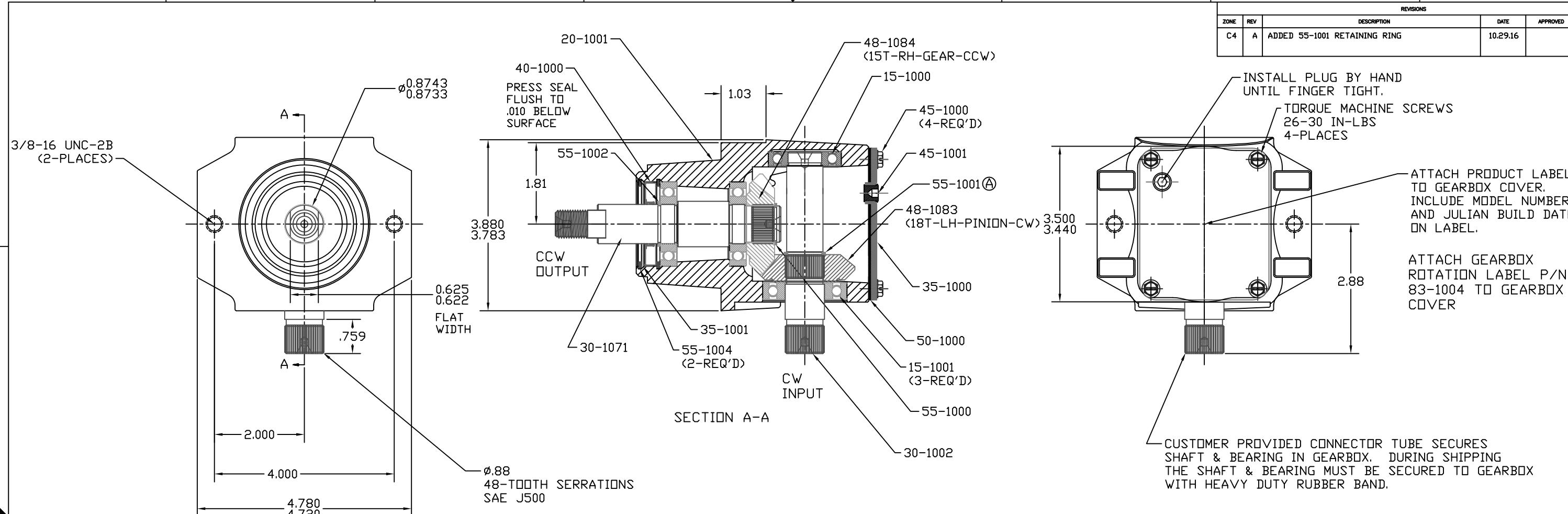
ROTATION TYPE: CCW
 ROTATION: INPUT: CCW, OUTPUT: CW
 GEAR RATIO: 1:1
 INPUT SPEED: 3,600 RPM (MAX.)
 HORSEPOWER: 13.0 HP @ 3,600 RPM (MAX.)
 STATIC TORQUE: 360 IN-LBS (MAX.)

SIMILAR PEERLESS 1000-026
 105-326 RAD CW-CCW 1:1 RATIO



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	J-Mac International, LLC P.O. Box 235 - Henryville, IN 47126	SIZE	FSM NO.
Description: RAD. w/ 1:1 Ratio			DWG NO. 105-226
SCALE	FULL	REV	IR
SHEET			

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
C4	A	ADDED 55-1001 RETAINING RING	10.29.16	



SHAFT: 30-1071

HARDEN & DRAW TO RC 40-4

BEARINGS

BEARING P/N: 15-100

- USE SST # R12 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,367 LBS
- STATIC LOAD RATING: 864.4 LBS

BEARING P/N: 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LB
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

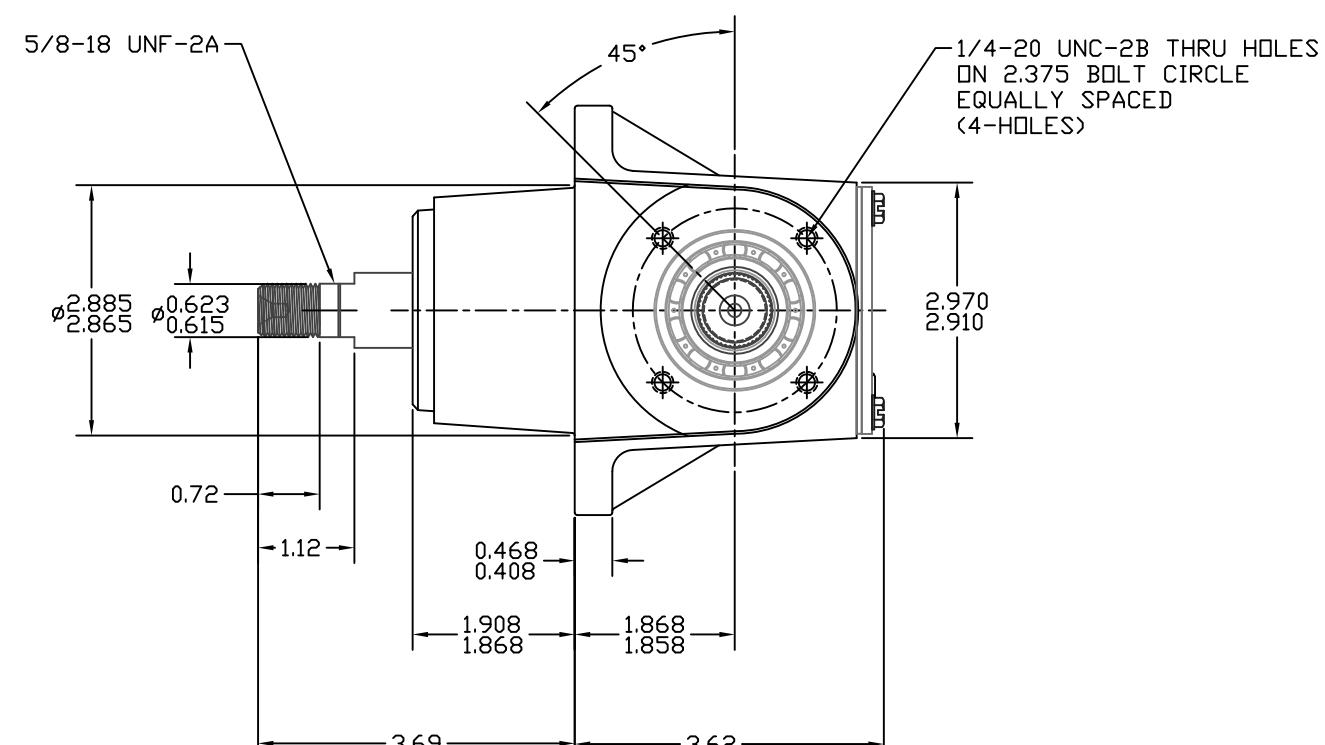
PENNZOIL SUPER MAXOL EP32

TEXACO MEROPA 320

GEARBOX SHIPPED WITHOUT LUBRICATION

GEARBOX SPECIFICATIONS

ROTATION TYPE:	CW
ROTATION:	CW INPUT, CCW OUTPUT
GEAR RATIO:	1.2:1 INCREASE
INPUT SPEED:	3,600 RPM (MAX.)
HORSEPOWER:	7.0 HP @ 3,600 RPM (MAX.)
STATIC TORQUE:	360 IN-LBS (MAX.)



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drawing shall be promptly returned by
client to J-Mac International, LLC.

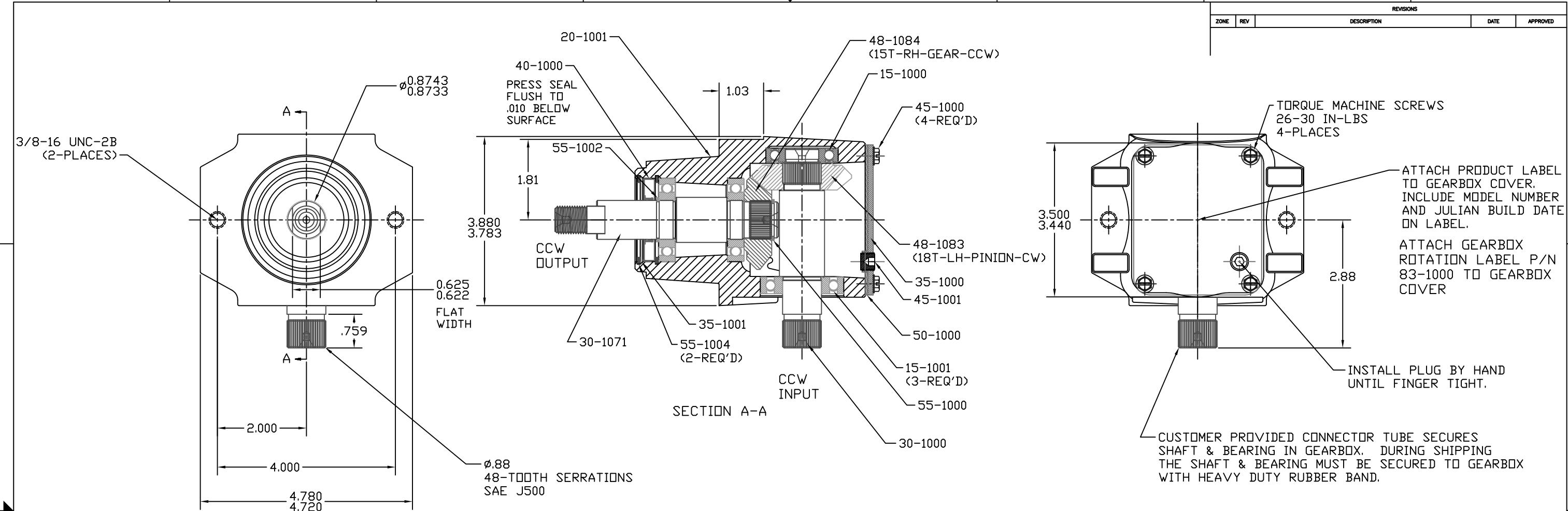
TOLERANCES UNLESS OTHERWISE SPECIFIED
ACTIONAL $+\/-1/32$.00 $+\/-0.02$.000 $+\/-0.010$ ANGULAR $+\/-1/2$

J-Mac International, LLC
P.O. Box 235 - Henryville, IN 47126

NO.	DWG NO.	JM105-237	REV A
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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SHAFT 30-1071

HARDEN & DRAW TO Rc 40-45

BEARINGS

BEARING P/N: 15-1000

- USE SST # R12 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,369 LBS
- STATIC LOAD RATING: 864.4 LBS

BEARINGS

BEARING P/N: 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LBS
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

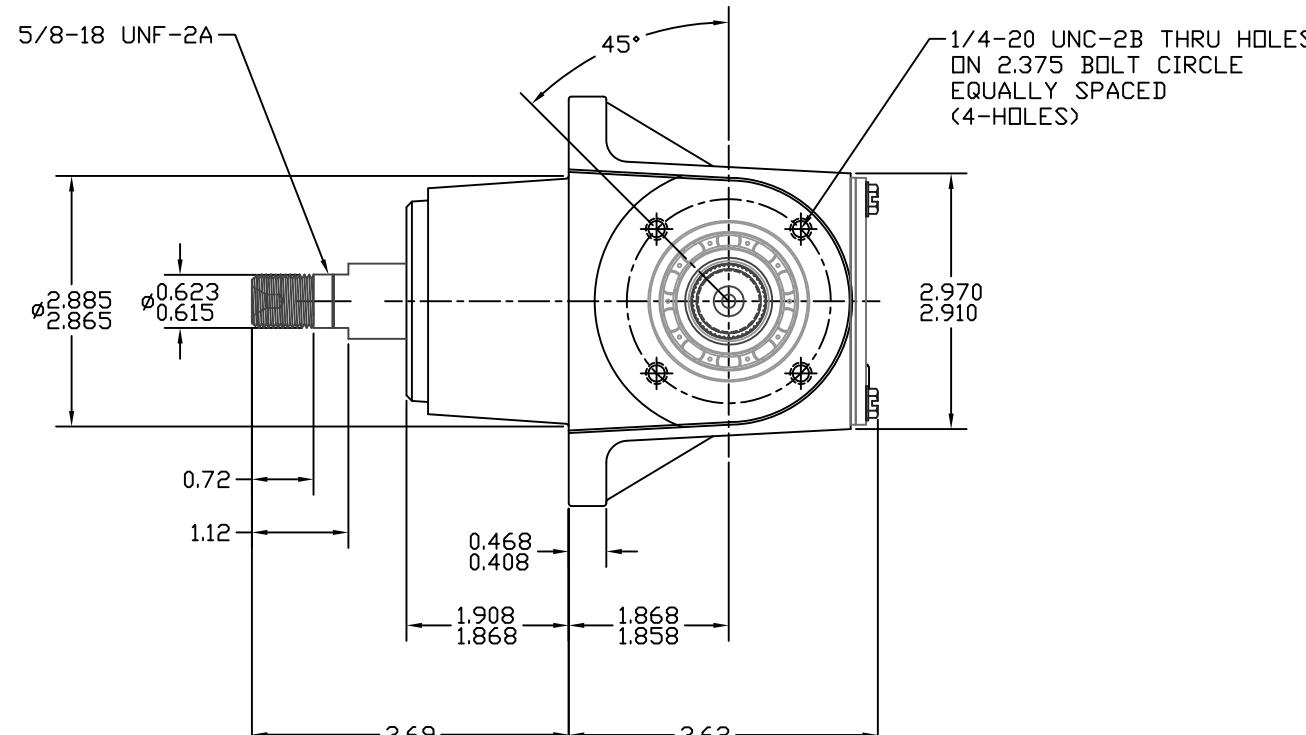
PENNZOIL SUPER MAXOL EP320

TEXACO MEROPA 320

GEARBOX SHIPPED WITHOUT LUBRICATION

GEARBOX SPECIFICATIONS

ROTATION TYPE: CCW
 ROTATION: CCW INPUT, CCW OUTPUT
 GEAR RATIO: 1.2:1 INCREASE
 INPUT SPEED: 3,600 RPM (MAX.)
 HORSEPOWER: 7.0 HP @ 3,600 RPM (MAX.)
 STATIC TORQUE: 360 IN-LBS (MAX.)

QUALITY INSPECTION

NO LEAKS ALLOWED

GEARBOX MUST ROTATE WITHOUT STICKING OR BINDING

RUN TEST GEARBOX AFTER FILLING WITH 6 OUNCES OF LUBRICATE.

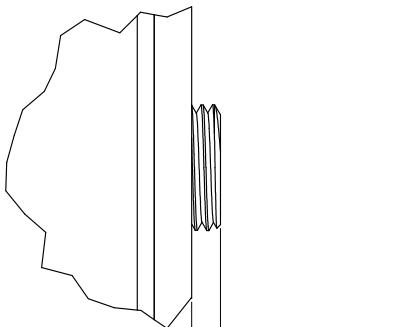
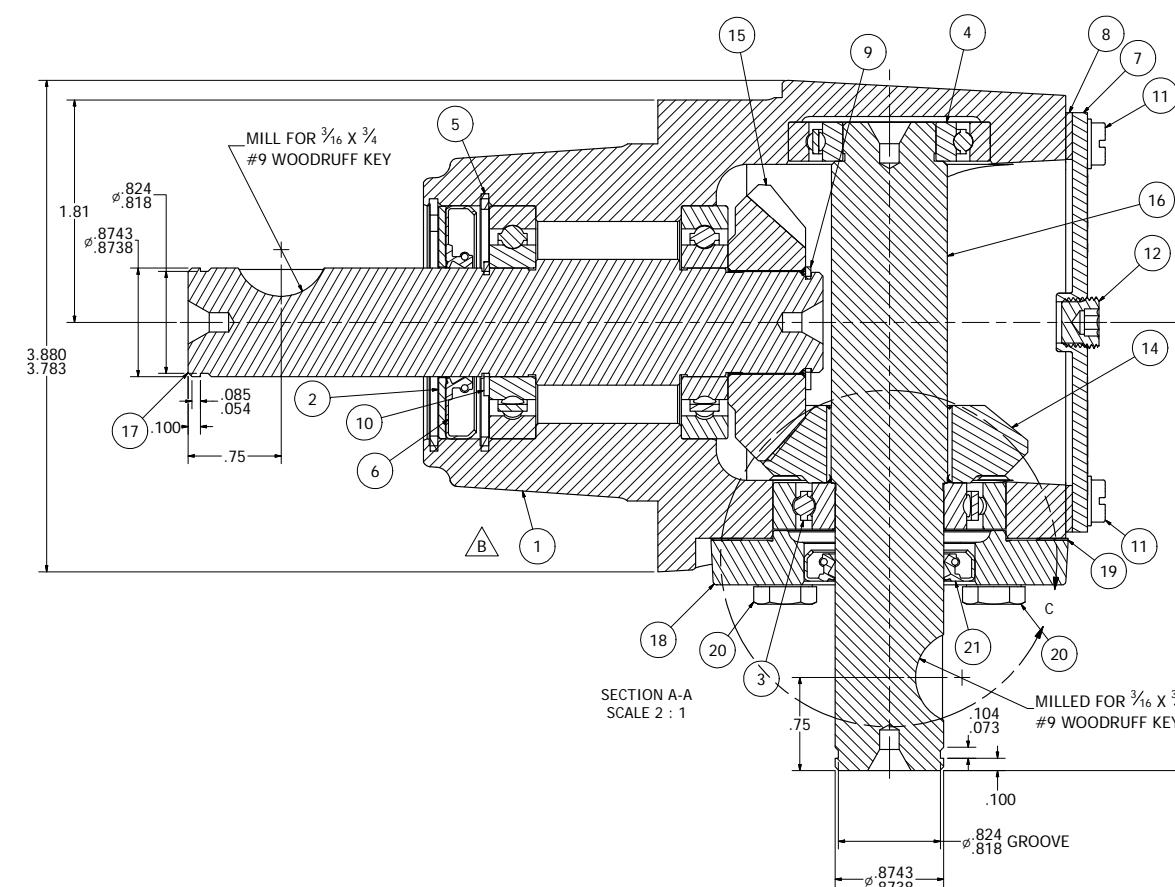
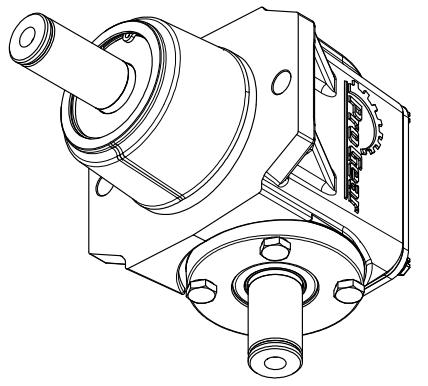
RUN TEST SHOULD BE PERFORMED ON 1-UNIT OUT OF 60-UNITS

OVERALL dB(A): 80 TO 84

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J-Mac International, LLC P.O. Box 235 - Henryville, IN 47126		SIZE FSCM NO. DWG NO. REV JM105-238 IR	
Description: ZEROL RAD 1.2:1 Ratio	SCALE FULL	SHEET	

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	03/01/17	
F1	A	83-1009 WAS 83-1004 UPDATED GEAR DESCRIPTION	3/2/2017	
F5, H1 D3 B8	B	HOUSING - P/N 20-1123 WAS 20-1001 Ø .406 WAS 3/8-16 UNC-2B UPDATED LUBE SPECIFICATIONS	3/9/2017	

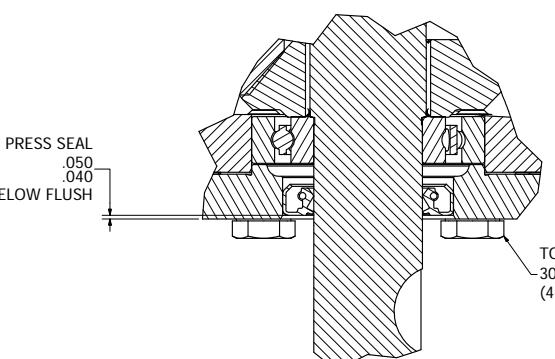
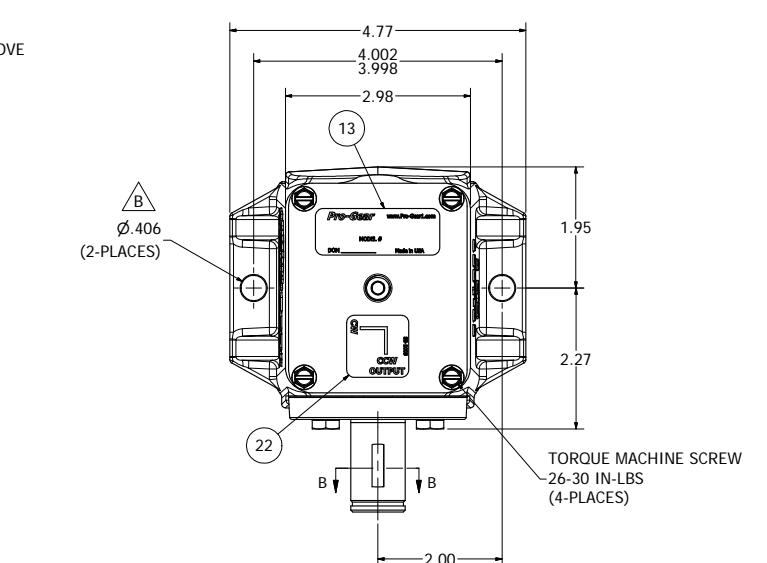
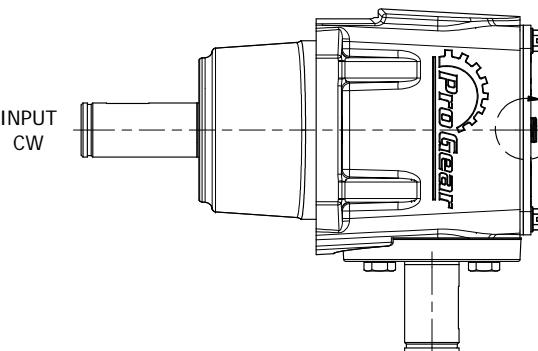
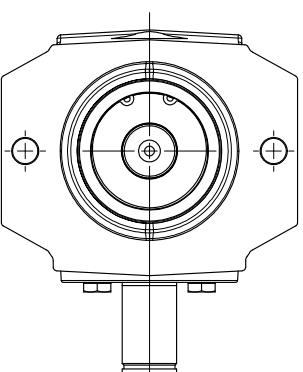
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	20-1123	GEARBOX HOUSING - RAD
2	1	35-1001	SEAL PROTECTOR
3	3	15-1001	BALL BEARING
4	1	15-1000	BALL BEARING
5	2	55-1004	RETAINING RING - INTERNAL
6	1	40-1000	SEAL
7	1	35-1000	GEARBOX COVER
8	1	50-1000	GEARBOX COVER GASKET
9	1	55-1001	RETAINING RING - EXT.
10	1	55-1002	RETAINING RING - EXT.
11	4	45-1000	10-24 X 1/2 MACHINE SCREW
12	1	45-1001	PLUG 1/8-27 NPTF
13	1	83-1003	SERIAL LABEL
14	1	48-1030	GEAR 17T-RH-CCW
15	1	48-1028	PINION 17T-LH-CW
16	1	30-1074	OUTPUT SHAFT
17	1	30-1075	INPUT SHAFT
18	1	20-1009	RETAINER CAP
19	1	50-1001	RETAINER CAP GASKET
20	4	45-1007	HHCS 1/4-20 X 7/8
21	1	40-1004	SEAL
22	1	83-1009	DECAL, RAD, CW INPUT / CCW



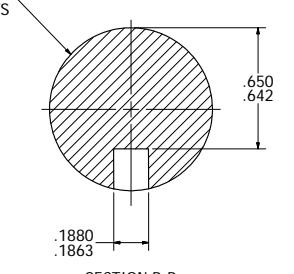
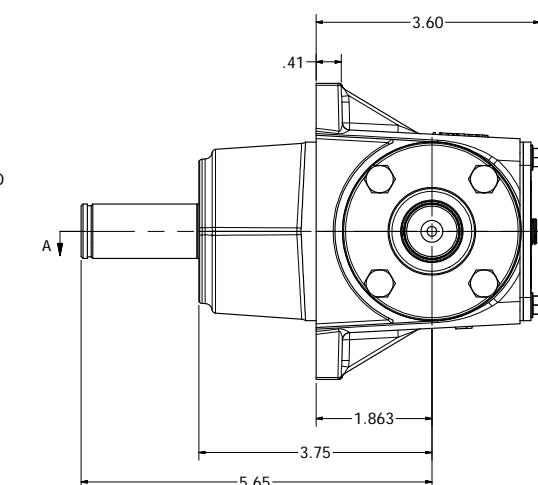
DETAIL D
SCALE 5 : 1



TORQUE PLUG TO
60 IN-LBS (MIN.)
FLUSH TO .100 ABOVE
COVER SURFACE



LUBRICATION - 6 OZ'S
EXTREME PRESSURE 80W-90 (API GL-5)
GEARBOXES SHIPPED WITH LUBRICATION



KEYWAY SPECIFICATION

REPLACES PEEPFLESS P/N 1000-043A

QUALITY INSPECTION
NO LEAKS ALLOWED

GEARBOX MUST ROTATE WITHOUT
STICKING OR BINDING

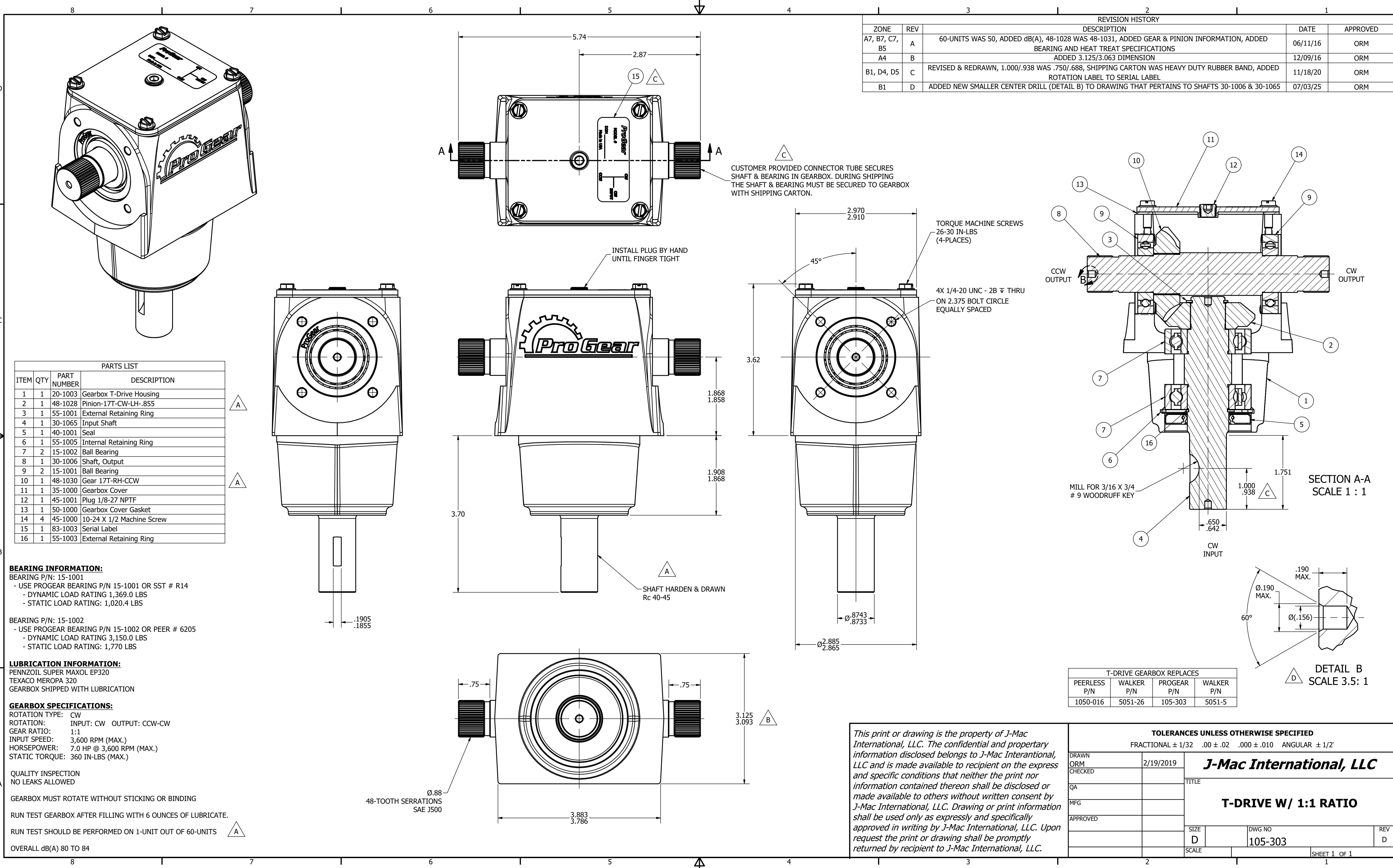
RUN TEST GEARBOX AFTER FILLING
WITH 6 OUNCES OF LUBRICATE.

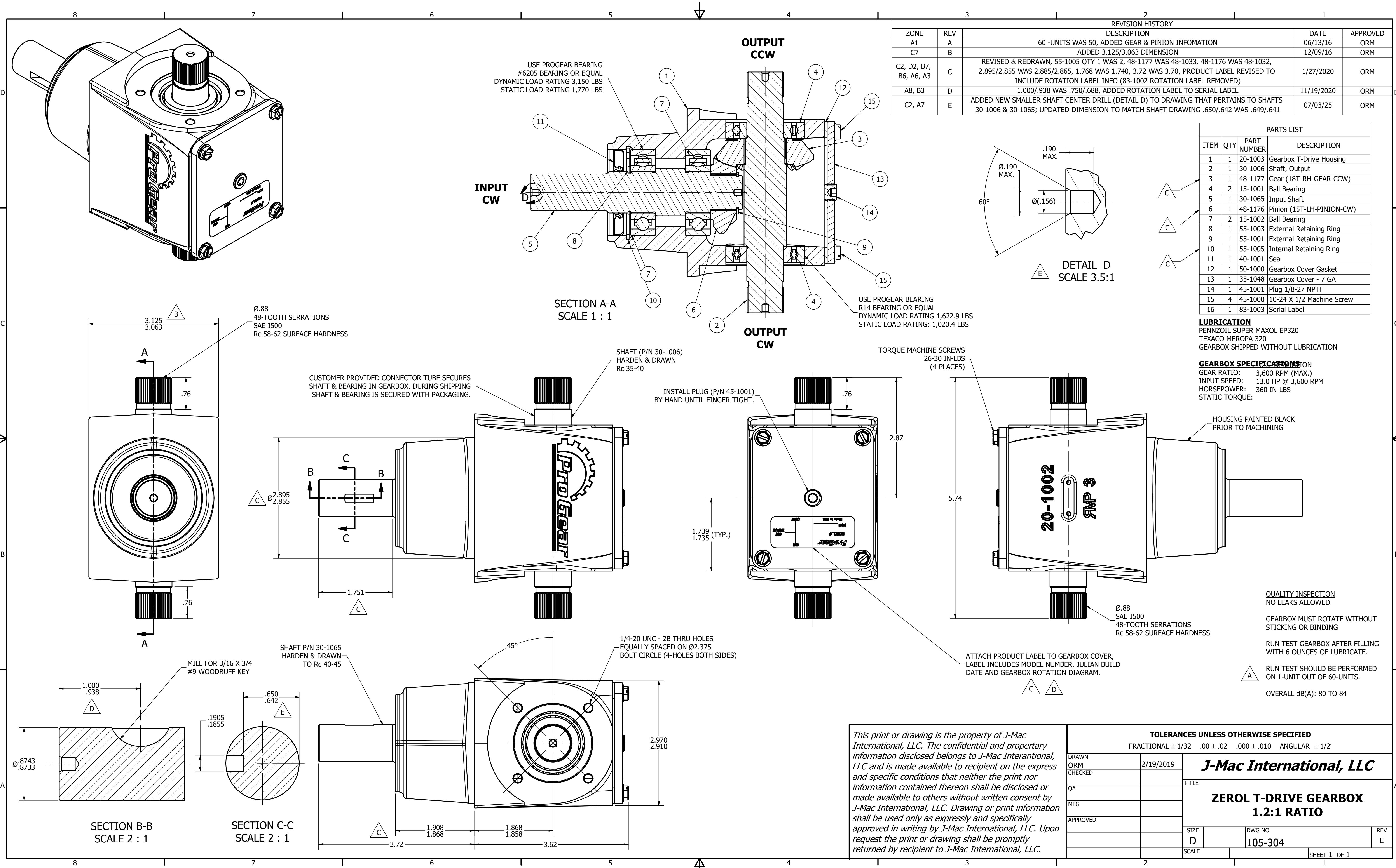
RUN TEST SHOULD BE PERFORMED
ON 1-UNIT OUT OF 60-UNITS

OVERALL dB(A): 80 TO 84

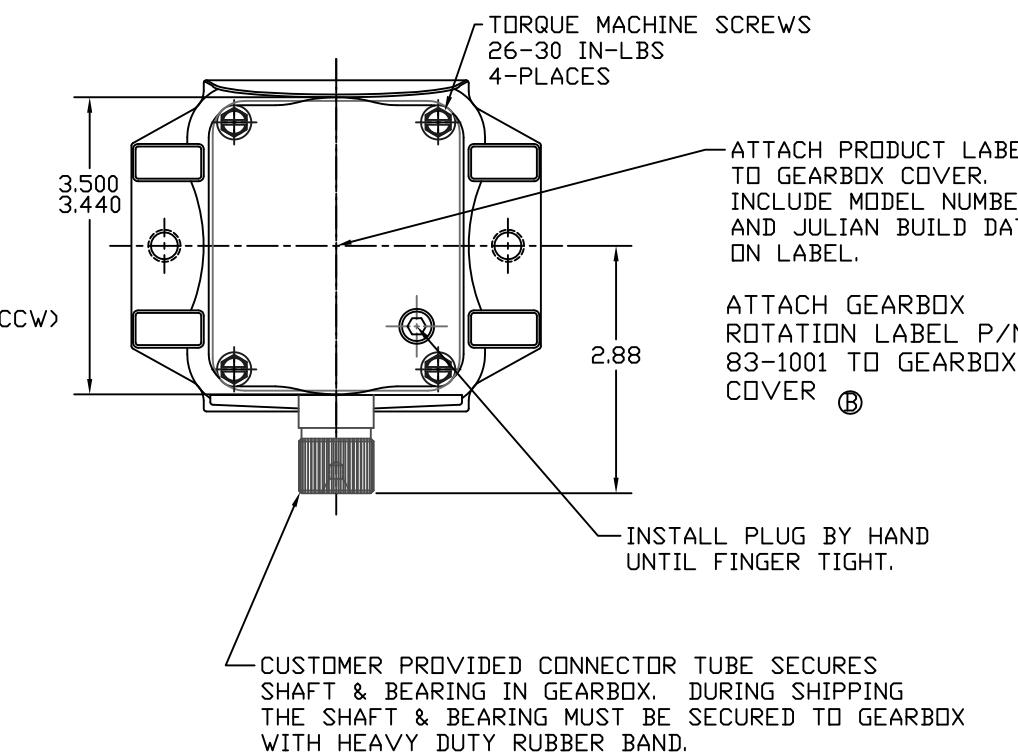
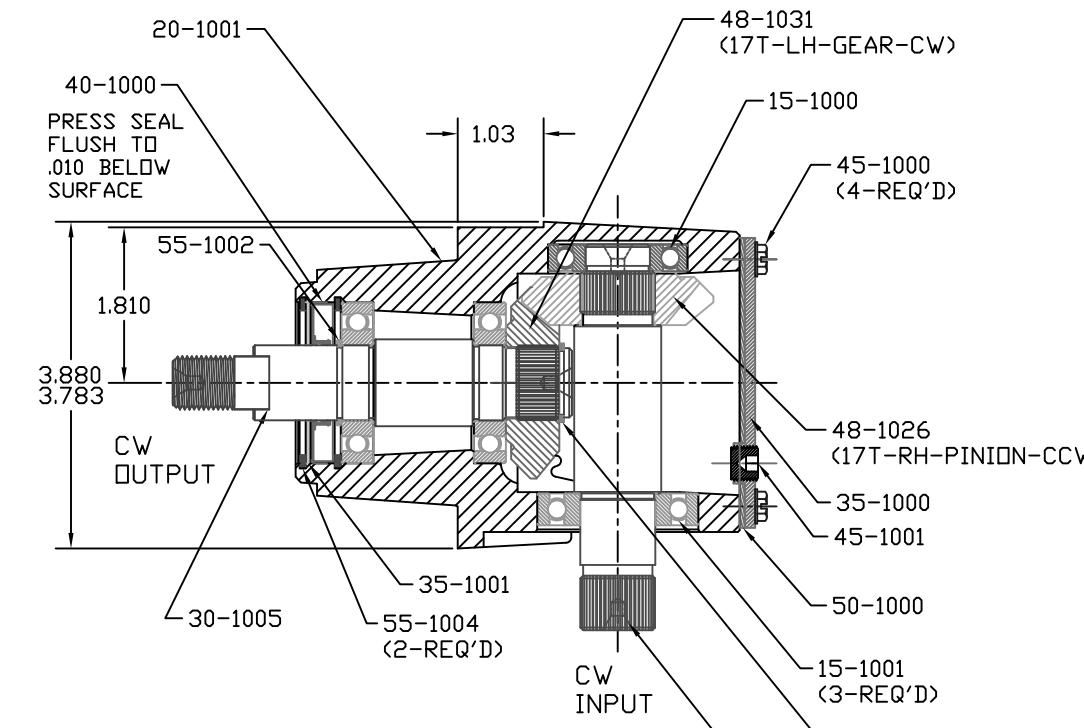
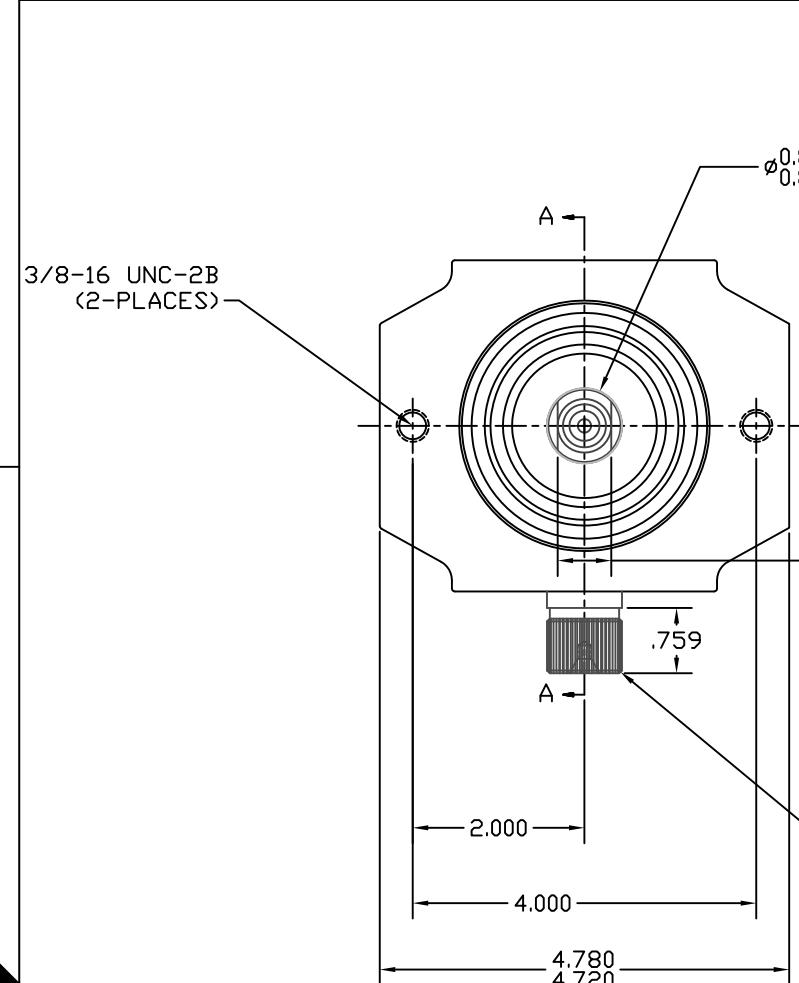
GEARBOX SPECIFICATIONS		
ROTATION TYPE:	CW	
ROTATION:	INPUT: CW	OUTPUT: CCW
GEAR RATIO:	1:1	
INPUT SPEED:	3,600 RPM (MAX.)	
HORSEPOWER:	13.0 HP @ 3,600 RPM (MAX.)	
STATIC TORQUE:	1,200 IN-LBS (MAX.)	
GEARBOX HOUSING:	DUCTILE IRON	

TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTIONAL $\pm 1/32$.00 $\pm .02$.000 $\pm .010$	ANGULAR $\pm 1/2^{\circ}$
DRAWN ORM	2/17/2017	J-Mac International, LLC Simpsonville, Kentucky USA	
CHECKED			
QA		TITLE	
MFG		RAD CW/CCW 1:1 RATIO	
APPROVED			
	SIZE E	DWG NO 105-242	REV B
	SCALE	SHEET 1 OF 1	





REVISIONS		
ZONE	REV	DESCRIPTION
B6 C1	A B	.623/.615 was .625/.615 83-1001 was 83-1000
		6/29/16 10/11/16



SHAFT 30-1005

HARDEN & DRAW TO Rc 40-45

BEARINGS

BEARING P/N: 15-1000

- USE SST # R12 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,369 LBS
- STATIC LOAD RATING: 864.4 LBS

BEARING P/N 15-1001

- USE SST # R14 BEARING OR EQUAL
- DYNAMIC LOAD RATING: 1,622.9 LBS
- STATIC LOAD RATING: 1,020.4 LBS

LUBRICATION

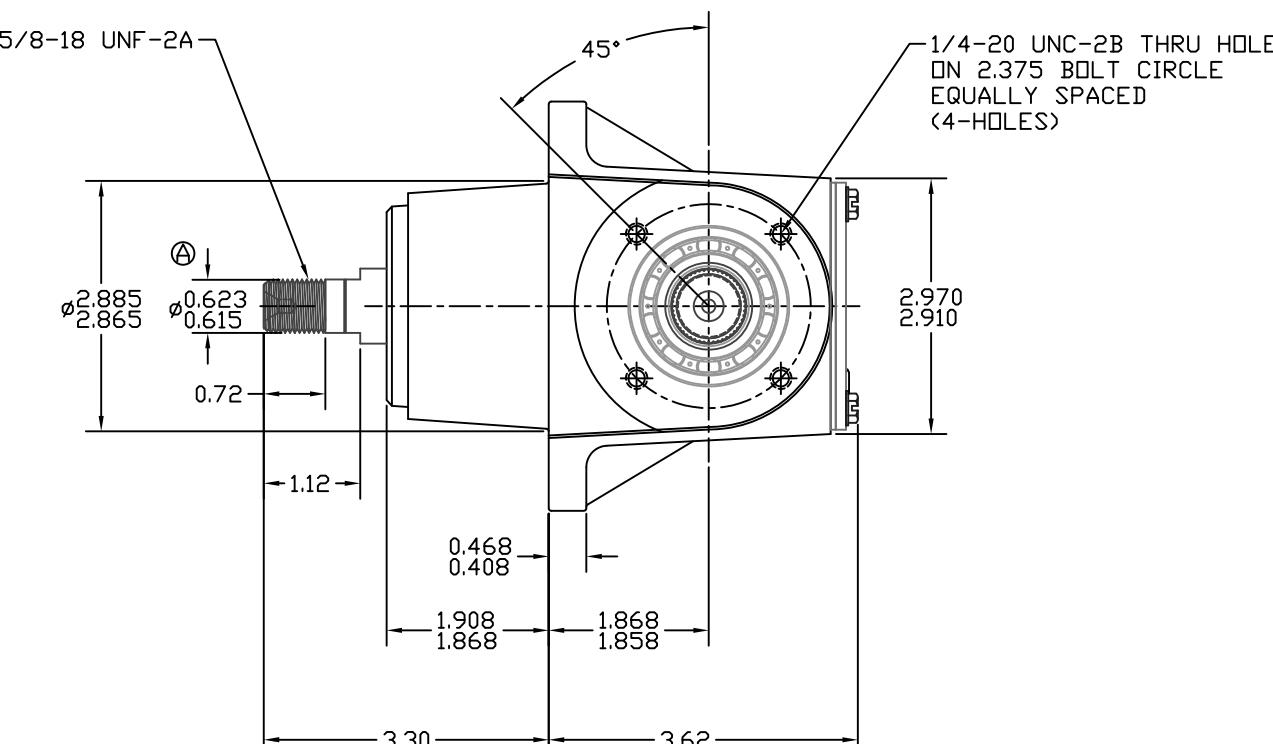
PENNZOIL SUPER MAXOL EP320

TEXACO MEROPA 320

GEARBOX SHIPPED WITHOUT LUBRICATION

GEARBOX SPECIFICATIONS

ROTATION TYPE: CW
ROTATION: CW INPUT, CW OUTPUT
GEAR RATIO: 1:1
INPUT SPEED: 3,600 RPM (MAX.)
HORSEPOWER: 7.0 HP @ 3,600 RPM (MAX.)
STATIC TORQUE: 360 IN-LBS (MAX.)



REPLACES:
PEERLESS WALKER PRO-GEAR WALKER
1050-007 5052-27 105-307
1000-074A 5052-10

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J-Mac International, LLC P.O. Box 235 - Henryville, IN 47126			
		SIZE	FSM NO.
Description: ZEROL RAD 1:1 Ratio		SCALE	DWG NO.
FULL		REV B	SHEET

