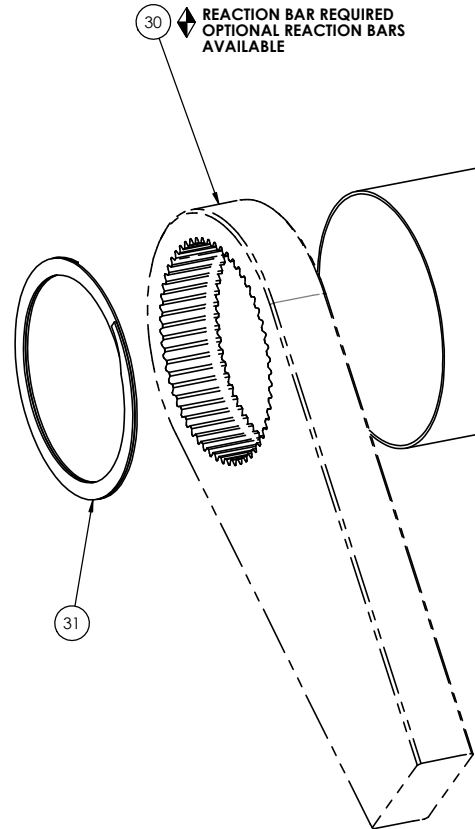


**GROUND WIRE ATTACHMENT DETAILS**

APPLY LOCTITE 222 (PURPLE)  
TIGHTEN TO 1.0 Nm (9 IN-LBS) 29

30 REACTION BAR REQUIRED  
OPTIONAL REACTION BARS  
AVAILABLE



CONNECT FEMALE END TO CONNECTOR ON RING GEAR.  
ATTACH GROUND LUG TO TAPPED HOLE IN BOTTOM OF MOTOR ASM. 1  
WITH SCREW 9. FEED MALE END THRU THE BOTTOM HOLE IN MOTOR HOUSING  
AND ATTACH IT TO MATING CONNECTOR ON ITEM 6.

TIGHTEN TO  
.3 Nm (3 IN-LBS)

APPLY LOCTITE 243 (BLUE)  
TIGHTEN TO 2.3 Nm (20 IN-LBS) 17

INSTALL SHIMS 34 - 36  
AS REQUIRED

NOT SHOWN 20

TIGHTEN TO 5.4 Nm  
(48 IN-LBS) 12

NO LOCTITE  
TIGHTEN TO .6 Nm (5 IN-LBS) 5

SECURE TO HOUSING WITH  
SILICONE RTV 108 4

SECURE ALL ELECTRICAL  
CONNECTIONS WITH  
ITEM 24 6

NO LOCTITE  
TIGHTEN TO .6 Nm (5 IN-LBS)  
4 PLACES 9

APPLY LOCTITE 243  
TIGHTEN TO  
2.8 Nm (25 IN-LBS)  
14

15 PRESS

32 SEE "GROUND WIRE ATTACHMENT DETAILS"

NO LOCTITE  
TIGHTEN TO .6 Nm (5 IN-LBS)  
3 PLACES 9

APPLY LOCTITE 243  
TIGHTEN TO 2.3 Nm (20 IN-LBS) 17

APPLY LOCTITE 222 (PURPLE)  
TIGHTEN TO 1.4 Nm (12 IN-LBS) 22

MODEL NO.	GEARBOX ASM.
AEP4A896500B	28114
AEP4A898100B	28115

COMMENTS	ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
	1	26160	1	ASSY, MOTOR, 4650
	2	27714	1	O-RING 3" ID
	3	24840	1	FOIL SEAL 2" DIA
	4	25490	2	LENS, LED, INJECTION MOLDED
	5	29335	4	STANDOFF, M-F, 4-40 X 3/16, SS
	6	27796	1	TID BOARD, POPULATED W/AMP CIRCUIT
	7	29337	3	STANDOFF, M-F, 4-40 X 1/8, SS
	8	29338	1	TID WIRE INSULATOR
	9	25573	8	SCREW PHP 4-40 X 3/16 18-8 SS
	10	SEE CHART	1	GEAR BOX ASM.
	11	29279	4	SCREW, BHSC, 10-32 X 3/8, TORX HEAD, NYLON PELL-IT, STEEL
	12	29284	2	SCREW, BHSC, 10-32 X 1/2, TORX HEAD, NYLON PELL-IT, STEEL
	13	25230	1	END CAP
	14	25568	4	SHC 10-32 x 1.25 BLK OXIDE
	15	25579	1	PLUG 3/8"
	16	25233	1	TRAY, WIRE, HT TOOLS PISTOL
	17	25569	6	SCREW LHCS 10-32 X 3/8 18-8 SS
	18	25234	1	HANDLE, HT TOOLS PISTOL
	19	25212	1	SWITCH SUB-ASSEMBLY
NOT SHOWN	20	25582	1	TRIGGER CABLE
	21	24838	1	TRANSDUCER CABLE CHASE
	22	25570	2	SCREW SHCS 4-40 X 1/4 18-8 SS
	23	25505	1	TOOL CONNECTOR ASM HERC PISTOL
NOT SHOWN	24	28257	A/R	CABLE TIE, 1.65MM W X 71MM LG.
	25	28211	1	(4) LINE MALE/FEMALE JUMPER ASM.
	26	25564	2	WASHER SHIM .093THK .25ID .375OD
	27	28230	1	RING GEAR SLEEVE, NON-CLUTCHED, 8100Nm
	28	26636	1	GEAR CASE COVER
	29	26319	3	SCREW, BHSC 6-32 X .188, 18-8 SS
	30	26899	1	CHOOSE REACTION BAR
	31	26436	1	RETAINING RING, SPIRAL, Ø3.833 X Ø3.293 X .111 HT SERIES
	32	31412	1	GROUND WIRE ASSEMBLY, 18 AWG, 8000 & 9000 HT SERIES
	33	24177	1	RTV 108, TRANSLUCENT
	34	25271	A/R	SHIM. - .002
	35	25272	A/R	SHIM. - .005
	36	25273	A/R	SHIM. - .010

◆ ASSEMBLY INSTRUCTIONS  
◊ SUB-ASSEMBLY

- GEARS & SPLINES: LUBRICATE WITH DOW CORNING MOLYKOTE BR2 PLUS GREASE.
- BEARINGS: LUBRICATE WITH CHEVRON SR1 GREASE
- O-RINGS: LUBRICATE WITH O-RING LUBE



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REVISION LEVEL	REVISION RELEASE DATE	DESCRIPTION OF CHANGES MADE TO PART	ECN #	AUTHOR/ APPROVAL

**UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES**  
DIMENSIONS AND TOLERANCING PER ANSI Y14.5  
SURFACE ROUGHNESS PER ANSI Y14.36

**BLOCK TOLERANCING PER DECIMAL:**  
X = ±.030 XX = ±.010 XXX = ±.005 XXXX = ±.0005  
ANGLE = ±.30°

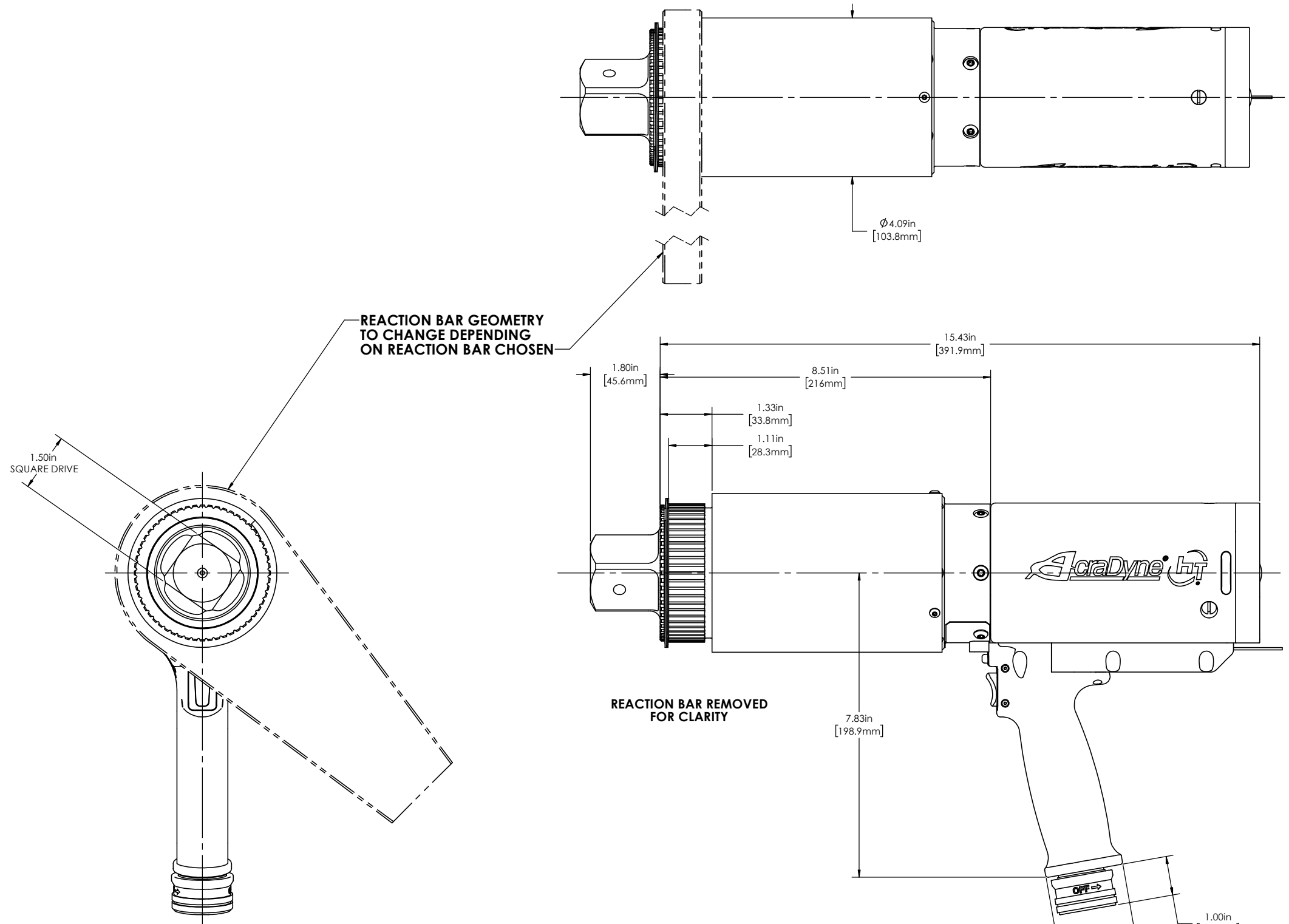
REMOVE BURRS AND SHARP EDGES: R.015 MAX  
MACHINE SURFACE FINISH: 125 RMS OR BETTER

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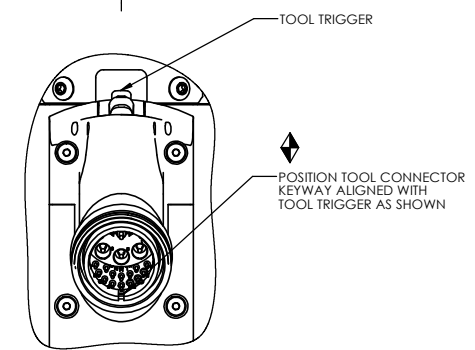
**AEP4A89 B**  
**PISTOL NUTRUNNER**  
**8000 SERIES**

SIZE	PART / DRAWING NUMBER	REVISION
<b>D</b>	<b>AEP4A89 B</b>	<b>E</b>

SCALE: 2:3 DO NOT SCALE DRAWING SHEET 1 OF 2



<b>MODEL NO.</b>
<b>AEP4A896500B</b>
<b>AEP4A898100B</b>



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REVISION LEVEL	REVISION RELEASE DATE	DESCRIPTION OF CHANGES MADE TO PART	ECN #	AUTHOR/ APPROVAL

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**BLOCK TOLERANCING PER DECIMAL:**  
 .X = ±.030 .XX = ±.010 .XXX = ±.005 .XXXX = ±.0005  
 ANGLE = ±0° 30'

REMOVE BURRS AND SHARP EDGES: R.015 MAX  
 MACHINE SURFACE FINISH: 125 RMS OR BETTER

DRAWINGS AND TECHNICAL DOCUMENTS CONTROLLED BY:  
**ACRADYNE MECHANICAL ENGINEERING**

<b>PISTOL NUTRUNNER 8000 SERIES</b>		
SIZE	PART / DRAWING NUMBER	REVISION
<b>D</b>	<b>AEP4A89</b> _ _ _ <b>B</b>	<b>E</b>
SCALE: 2:3	DO NOT SCALE DRAWING	SHEET 2 OF 2