

TOOL MODEL	GEAR CASE SUB-ASM.	TRANSDUCER SUB-ASM.
AES4A22020CV	24901	31048.005
AES4A22025CV	24894	31045.002
AES4A22030CV	24902	31045.004
AES4A22035CV	24903	31045.005
AES4A22040CV	24904	31045.006

COMMENTS	ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
	1	28766	1	MOTOR ASSEMBLY
	2	SEE CHART	1	GEAR CASE SUB-ASM.
	3	25735	1	EXT. STRAIGHT OUTPUT ASM., 3/8" SQ. DR.
	4	28754	1	LEVER HANDLE
	5	29186	1	COVER, LEVER HANDLE
	6	25763	1	TRANSDUCER ADAPTOR
	7	24780	1	MOTOR COUPLER SUB-ASM.
	8	SEE CHART	1	TRANSDUCER SUB-ASM.
	9	29202	1	TRIGGER CABLE ASM., 6 PIN - 6 PIN
	10	29191	1	TRIGGER/MFG BOARD ASM., 2000-SERIES, GEN 4
	11	28767	1	TOOL CONN. ASM.
	12	30966	1	LED BOARD ASM, i2C
	13	24679	1	RETAINING RNG
	14	24683	1	SPRING, REV BUTTON
	15	25557	1	REV BUTTON SUB-ASSEMBLY
	16	29189	1	TRIGGER SUB-ASM.
	17	28760	1	LED COVER
	18	28753	2	MOTOR COVER, SMALL MOTOR O.D.
	19	20534	1	2000 SERIAL/MODEL LABEL
	20	22141	1	SAFETY LABEL
	21	20132	1	THROTTLE SPRING
	22	31051	1	DOWEL PIN, Ø.094 X .75, GROOVED, STEEL, ZINC PLATED
	23	29184	2	DOWEL PIN, Ø.094 X .25, PLASTIC
	24	31061	2	DOWEL PIN, Ø3/32 X 1/4, STEEL
	25	23753	8	SCREW, FHSC 6-32x5/16, 18-8 SS
	26	25745	5	SCREW, BHSC 4-40 STEEL, BLACK OXIDE
	27	26078	4	SCREW, SHC 4-40 X 5/16, BLK OXIDE
	28	27235	2	O-RING, BUNA-N, #28
	29	24935	2	SCREW, SHC 4-40 X .25, STEEL, BLACK OXIDE
	30	23741	1	SHIM, OUTPUT, .002 IN, 40 NM
	31	21022	1	SHIM, BLANK OUTPUT SHAFT, 0.005 THK
	32	21021	1	SHIM, BLANK OUTPUT SHAFT, 0.010 THK
	33	24697	1	REACTION BAR, STEEL, 2000 SERIES
NOT SHOWN	34	28257	A/R	CABLE TIE, 1.65mm X 71mm
NOT SHOWN	35	25471	1	LABEL, SN# COVER, .25 X 4"

- ◆ ASSEMBLY INSTRUCTIONS
- ◊ SUB-ASSEMBLY

- 1) GEARS & SPLINES: LUBRICATE WITH DOW CORNING MOLYKOTE BR2 PLUS GREASE.
- 2) BEARINGS: LUBRICATE WITH CHEVRON SR1 GREASE
- 3) O-RINGS: LUBRICATE WITH O-RING LUBE
- 4) TIGHTEN TO 1.0 Nm (9 IN-LBS.) LOCTITE 222 (PURPLE)



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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 = 40° 30'

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

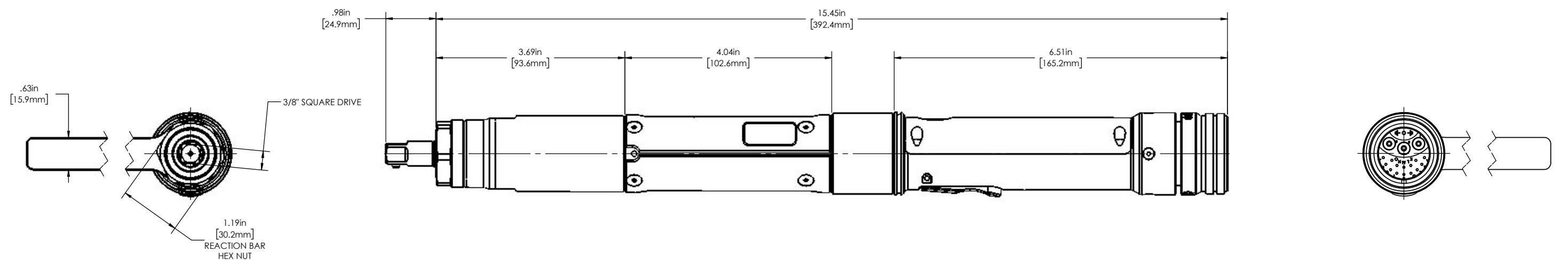
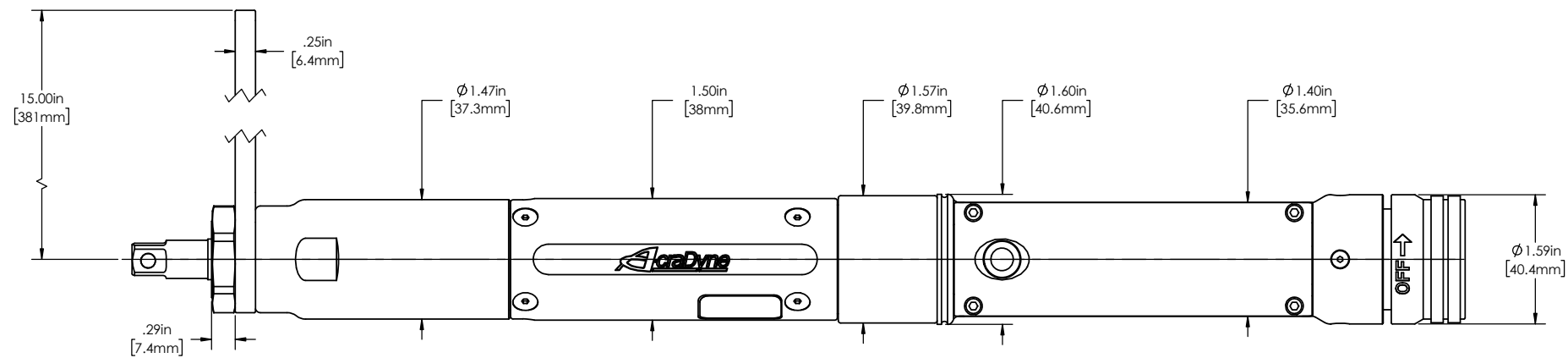
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**INLINE NUTRUNNER**  
**3/8" SQ. DRIVE**

GEN 4 2000 SERIES

SIZE	PART / DRAWING NUMBER	REVISION
D	AES4A220 CV	A

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



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