MODEL NO.	ANGLEHEAD/GEAR TRAIN ASM.
AEN33060C	27621
AEN33060CW	28893
AEN33090C	27623
AEN33090CW	28894

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	27031	1	NUTRUNNER HOUSING, GEN III
2	25525	1	MOTOR ASSY, 9T, 3000 SERIES
3	25063	1	LED BOARD ASM.
4	25075	2	SCREW, SHC 4-40X.375, STEEL, BLACK OXIDE
5	25430	2	STAND-OFF, LED, 3000 SERIES
6	27027	1	SCREW, SET 5-40X.188,STEEL,BLK OXIDE
7	SEE CHART	1	GEAR TRAIN ASM., ANGLE HEAD, GEN 3C
8	26793	2	RETAINING PIN, .125 OD X 1-1/4
9	26102	1	TOOL CONNECTOR ASM., LEVER
10	25745	5	SCREW, BHSC 4-40 STEEL, BLACK OXIDE
11	25847	1	TID BOARD ASM.
12	24934	2	SCREW, FHC 4-40 X .312, STEEL, BLACK OXIDE
13	20132	1	THROTTLE SPRING
14	26532	1	GEN 3 TRIGGER ASSY, CAST
15	20061	2	SCREW, LEVER
16	25072	1	O-RING, LED LIGHT RING COVER
17	25058	1	LIGHT RING COVER, LED
18	26084	1	HANDLE COVER, MFB
19	24706	1	REV BUTTON SUB-ASSEMBLY
20	24683	1	SPRING, REV BUTTON
21	24679	1	RETAINING RNG
22	24940	10	SCREW, FHSC 4-40 X .25 LG., STEEL, BLACK OXIDE
23	26083	1	HANDLE COVER
24	20534	1	3000 SERIAL/MODEL LABEL
25	22141	1	SAFETY LABEL
26	26184	2	ADAPTER INSERT, GEN 3B 3000 SERIES
27	25106	1	PIN RETAINER RING
28	25107	2	RETAINING RING, PIN RETAINER

COMMENTS

"WOBBLE" OUTPUT MODEL TOOLS
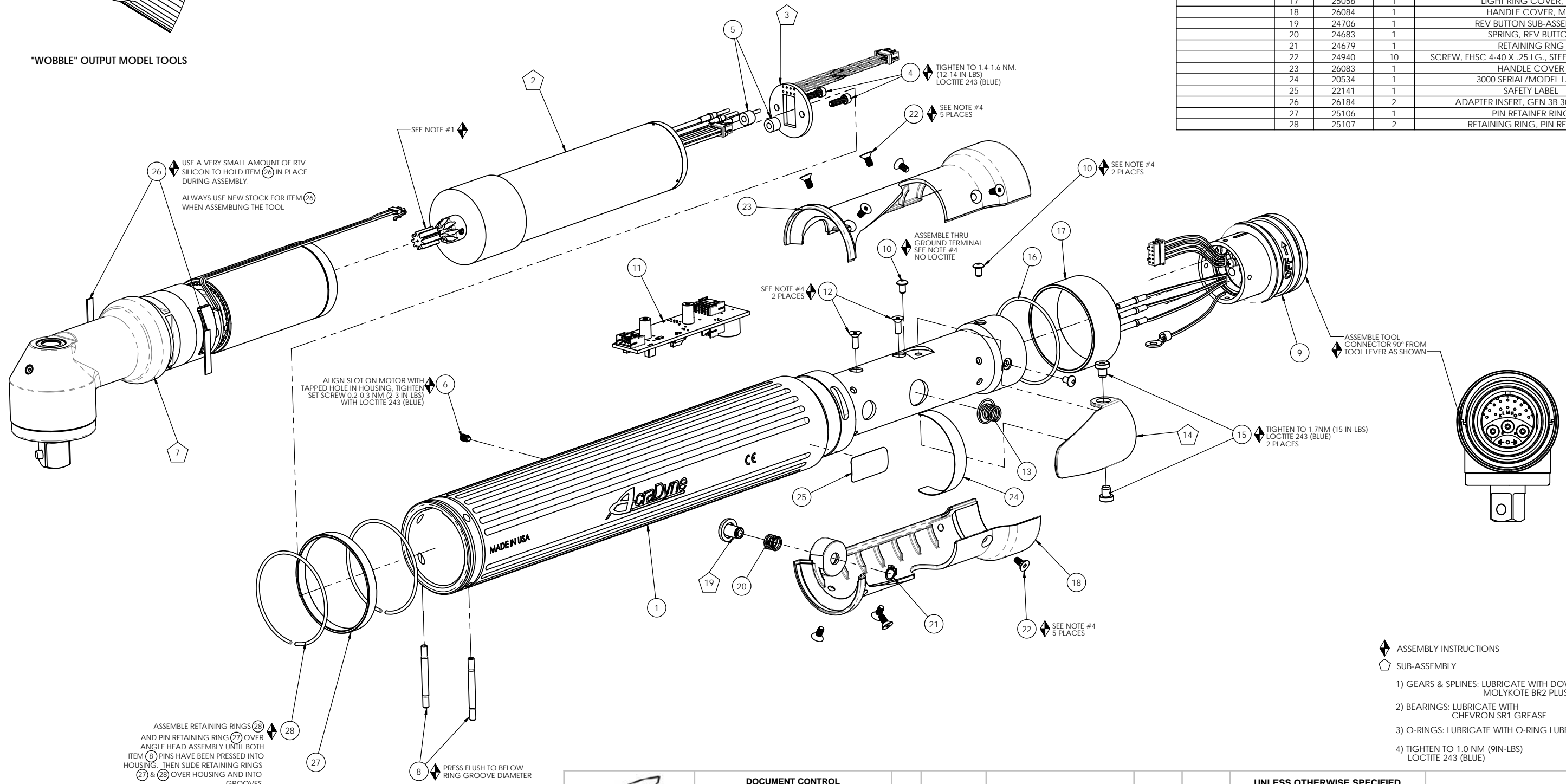
USE A VERY SMALL AMOUNT OF RTV SILICON TO HOLD ITEM (26) IN PLACE DURING ASSEMBLY.

ALWAYS USE NEW STOCK FOR ITEM (26) WHEN ASSEMBLING THE TOOL

SEE NOTE #1

ALIGN SLOT ON MOTOR WITH TAPPED HOLE IN HOUSING, TIGHTEN SET SCREW 0.2-0.3 NM (2-3 IN-LBS) WITH LOCTITE 243 (BLUE)

ASSEMBLE RETAINING RINGS (28) AND PIN RETAINING RING (27) OVER ANGLE HEAD ASSEMBLY UNTIL BOTH ITEM (8) PINS HAVE BEEN PRESSED INTO HOUSING. THEN SLIDE RETAINING RINGS (27) & (28) OVER HOUSING AND INTO GROOVES.

PRESS FLUSH TO BELOW RING GROOVE DIAMETER

TIGHTEN TO 1.4-1.6 NM. (12-14 IN-LBS) LOCTITE 243 (BLUE)

SEE NOTE #4 5 PLACES

SEE NOTE #4 2 PLACES

ASSEMBLE THRU GROUND TERMINAL SEE NOTE #4 NO LOCTITE

SEE NOTE #4 2 PLACES

ASSEMBLE TOOL CONNECTOR 90° FROM TOOL LEVER AS SHOWN

TIGHTEN TO 1.7NM (15 IN-LBS) LOCTITE 243 (BLUE) 2 PLACES

SEE NOTE #4 5 PLACES

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 (9IN-LBS) LOCTITE 243 (BLUE)

REQUIRED TOOLING
LOCTITE 243 (BLUE)
1/16 HEX WRENCH
5/64 HEX WRENCH
3/32 HEX WRENCH
SNAP RING PLIERS - EXTERNAL TYPE

AIMCO
AcraDyne
10000 SE PINE STREET
PORTLAND, OREGON 97216
503.254.6600

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
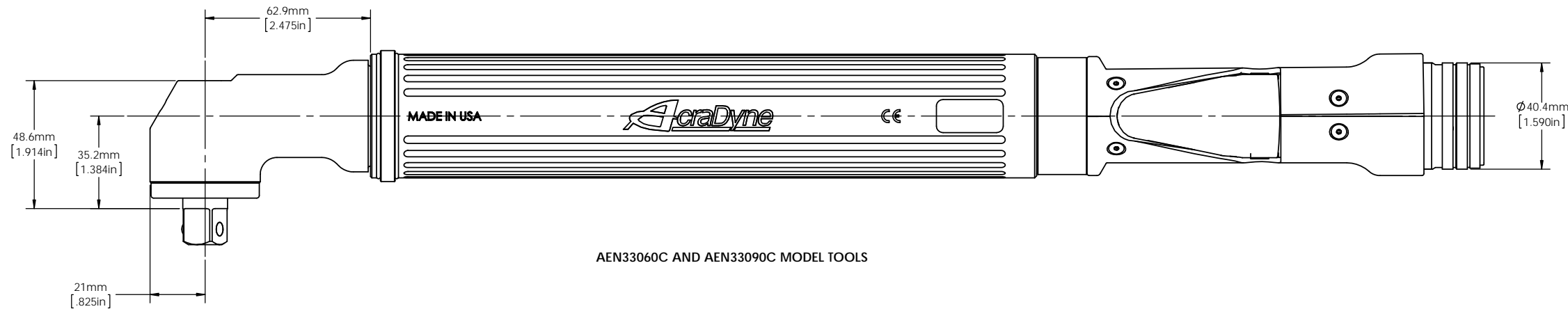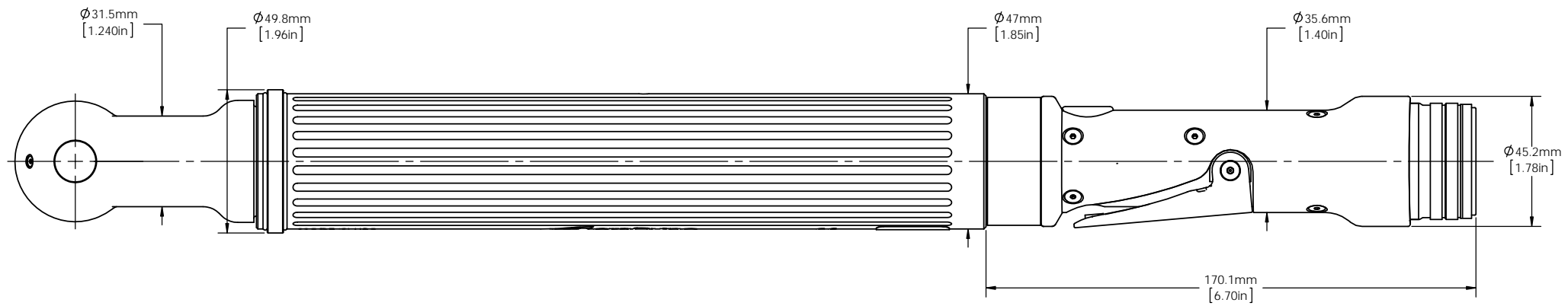ANGLE = ±0° 30'

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

DRAWINGS AND TECHNICAL DOCUMENTS CONTROLLED BY:
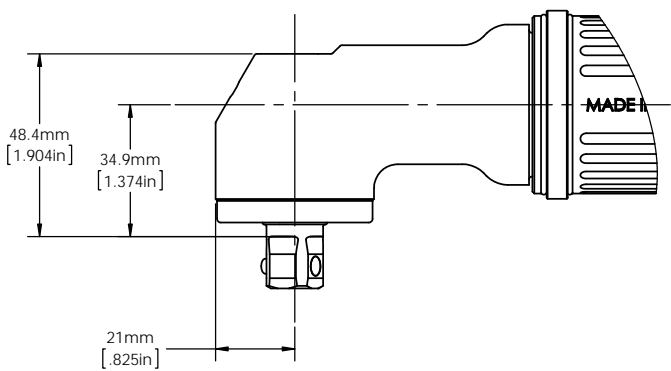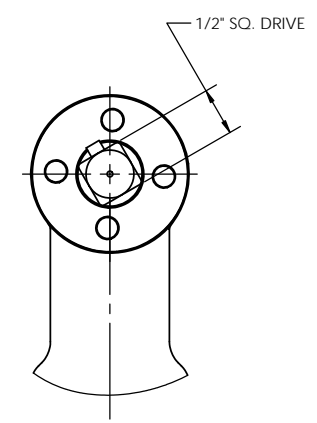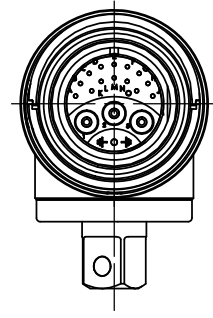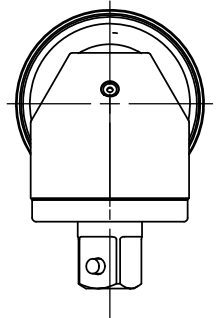ACRADYNE MECHANICAL ENGINEERING

ANGLE NUTRUNNER
3000 SERIES - GEN 3C

SIZE	PART / DRAWING NUMBER	REVISION
D	AEN330_0C_	B

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

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

REVISION BLOCK

Ø31.5mm
[1.240in]

Ø49.8mm
[1.96in]

Ø47mm
[1.85in]

Ø35.6mm
[1.40in]

Ø45.2mm
[1.78in]

170.1mm
[6.70in]

62.9mm
[2.475in]

MADE IN USA

AcraDyne

CE

Ø40.4mm
[1.590in]

48.6mm
[1.914in]

35.2mm
[1.384in]

21mm
[.825in]

AEN33060C AND AEN33090C MODEL TOOLS

1/2" SQ. DRIVE

48.4mm
[1.904in]

34.9mm
[1.374in]

MADE I

21mm
[.825in]

B

AEN33060CW AND AEN33090CW "WOBBLE" MODEL TOOLS

AIMCO
AcraDyne ®
10000 SE PINE STREET
PORTLAND, OREGON 97216
503.254.6600

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

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 = ±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

ANGLE NUTRUNNER
3000 SERIES - GEN 3C

SIZE	PART / DRAWING NUMBER	REVISION
D	**AEN330_0C_**	**B**
SCALE 1:4	DO NOT SCALE DRAWING	SHEET 2 OF 2