



DETAIL A  
SCALE 3 : 1

SECTION A-A

MAKE FROM MODEL: 1509-GS-016-B

NOTES:

1. MATERIAL: 8620 AS ROLLED STEEL BAR
2. IDENTIFY WITH PART NUMBER, SUPPLIER CODE NUMBER, MANUFACTURERS LOT NUMBER, AND REV. LEVEL
3. ULTRASONIC TESTING: TESTING OF FORGINGS MUST FOLLOW THE PROVISIONS OF EN-10228-3 LEVEL 3 (AGMA A-388- TO AN EQUIVALENT 3 mm FLAT BOTTOMED HOLE IS AN ACCEPTABLE ALTERNATIVE.)

REV	CHANGED FROM	BY	DATE	APRD
A	PRE-RELEASE	JFC	8/XX/12	
B	Ø 105 TO Ø 107.85, 80 TO 73, 10.0 TO 8.0, OAL TO 90. REVIEWED PER 1509-ENC-004	JFC	11/13/12	
C	CHANGES PER NREL DRW REVIEW. UPDATE BORDER	CPS	3/12/13	
D	RELEASE FOR PRODUCTION	CPS	4/19/13	
E	CHANGES PER MFG REVIEW	CPG	1/19/16	

REPORT ERRORS & CHANGES REMOVE ALL BURRS AND SHARP EDGES DIMENSIONS ARE IN MILLIMETERS. UNSPECIFIED TOLERANCES:

DECIMALS: FINISH: ANGLES:

X. ±1.0 6.3  $\sqrt{\mu\text{m Ra}}$  <math>\le \pm 0.5^\circ</math>  
 .X ±0.5  
 .XX ±0.25

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DRAWN JFC DATE: 9/22/12  
 CHECKED NJB THIRD ANGLE PRJ

**National Renewable Energy Laboratory**

TITLE: BUSHING, PLANET PIN

SIZE **B** DWG. NO. 254519 REV **E**

SCALE: 1:2 WEIGHT: 6.53 kgs SHEET 1 OF 1