



NOTES:

- MATERIAL: AISI 4340H STEEL BAR STOCK. REFER TO ISO 6336-5 (or AGMA 2001-404) FOR MATERIAL QUALITY COMPLIANCE. PROVIDE INSPECTION REPORTS OR PROOF ACCORDING TO THE PROVISIONS EN-10204-3.1.
- HEAT TREAT: QUENCHED AND TEMPERED 319-353 BHN
- ULTRASONIC TESTING: TESTING OF STEEL BAR 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.)
- CRACK TESTING: MAGNETIC PARTICLE TESTING OR DYE PENETRANT TEST GROUND SURFACES TO ISO 6336-5 (ALT: AGMA 2001-D04-GRADE 3) NO CRACKS ALLOWED.
- VISUALLY INSPECT TAPER 100 % AND RECORD MEASUREMENTS AT GAUGE DIA AND LENGTH. ALT: CMM REPORT ACCEPTABLE.
- IDENTIFY WITH PART NUMBER, REV LEVEL, SUPPLIER INITIALS, JOB NUMBER, AND SHOP ORDER NUMBER
- HOLES MUST MEET CROSS HOLES, FULL DIAMETER. NON SPECIFIED FILLETS - R3, NON SPECIFIED CHAMFERS - 1x45°

MAKE FROM MODEL: SUPERSEDES 1509-GS-013-B

REV	CHANGED FROM	BY	DATE	APRD
C	CHANGES PER REVIEW. UPDATE BORDER	CPS	3/12/13	
D	CHANGES PER CUSTOMER REVIEW. RELEASE FOR PRODUCTION	CPS	4/10/13	
E	REPAIR DANGLING DIMENSION LEADERS	JMG	10/18/13	
F	CHANGES REQUESTED PER MANUFACTURER DRW REVIEW	CPG	12/10/13	
G	CHANGES PER MFG REVIEW, REFER 1509-ECN-026	CPG	11/23/15	
H	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 .X ±0.5 .XX ±0.25	6.3 $\sqrt{\mu\text{m Ra}}$	≤ ±0.5°
COPYRIGHT ©		
NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY		
DRAWN	JMG	DATE: 9/22/12
CHECKED	NJB	THIRD ANGLE PRJ

National Renewable Energy Laboratory		
TITLE: PIN, PLANET CARRIER		
SIZE B	DWG. NO. 254547	REV H
SCALE: 1:3.5	WEIGHT: 29.79 kgs	SHEET 1 OF 1