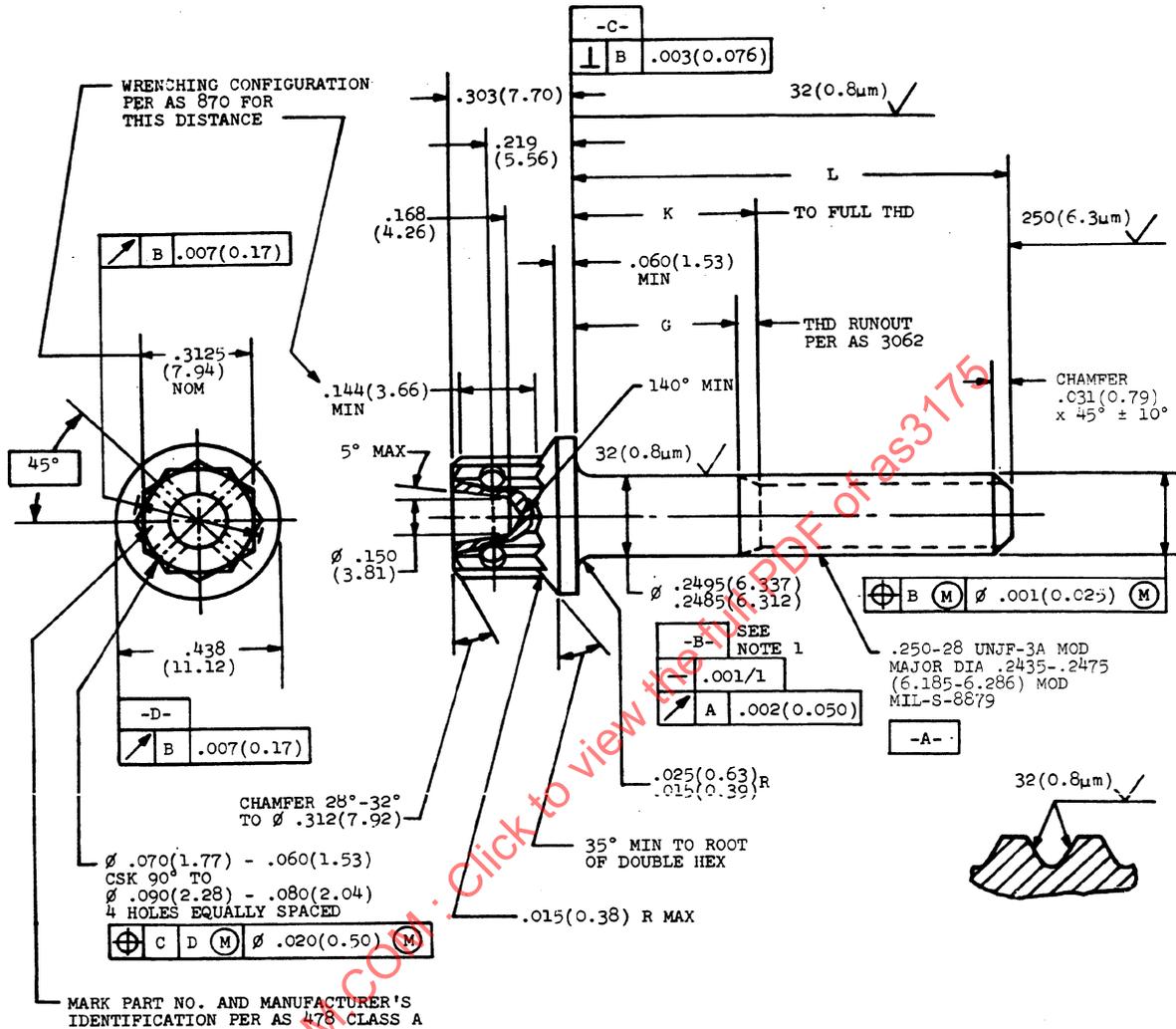


RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

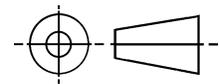
AS3175

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- FOR PART NUMBERS AS3175-03 THRU AS3175-06 THE THREAD PD SHALL REPLACE DATUM B.
- MATERIAL: CORROSION AND HEAT RESISTANT ALLOY AMS 5643.
- MANUFACTURING SPECIFICATION: AMS 7474.
- FLUORESCENT PENETRANT INSPECTION PER AMS 2645.
- SURFACE TEXTURE: ANSI B46.1-1962. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES (3.2 MICROMETRES) EXCEPT UPSET HEAD.
- BREAK SHARP EDGES .003-.015(0.08-0.38) UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS IN INCHES. METRIC CONVERSIONS ARE IN PARENTHESIS. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.010(0.25), ANGULAR DIMENSIONS ±5°. INTERNATIONAL SYSTEM UNITS (SI) SHOWN ARE FOR REFERENCE ONLY.
- HEAD TO SHANK FILLET SHALL BE COLD ROLLED PER AMS 7474 AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS EXCEPT THAT DISTORTIONS AT A IN FIGURE 2 OF THE SPECIFICATION SHALL NOT BE PERMITTED ON THE HEAD BEARING AREA AND SHALL BE PERMITTED ON THE SHANK DIAMETER ONLY IF THE DISTORTION DOES NOT CAUSE THE SHANK DIAMETER TO EXCEED .2500(6.350) DIAMETER.
- DIMENSIONING AND TOLERANCING: ANSI Y14.5-1973.
- DO NOT USE UNASSIGNED PART NUMBERS.

THIRD ANGLE PROJECTION



PREPARED BY SAE COMMITTEE E-25, GENERAL STANDARDS FOR AEROSPACE PROPULSION SYSTEMS



**AEROSPACE STANDARD**  
BOLT, MACHINE - DOUBLE HEX EXTENDED WASHER HEAD,  
CLOSE TOLERANCE SHANK, AMS 5643, .250-28, UNJF-3A

**AS3175**  
SHEET 1 OF 2

ISSUED 1976-03 REAFFIRMED 2006-10