

INCH-POUND

MS9438B  
27 OCTOBER 1985  
SUPERSEDING  
MS9438A  
13 DECEMBER 1972

## MILITARY SPECIFICATION SHEET

SCREW, MACHINE-STEEL, AMS 6304, DIFFUSED  
NICKEL-CADMIUM PLATED HEXAGO HEAD,  
DRILLED, .138-40 UNJF-3A

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS  
AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST  
OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING DOCUMENT  
LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS  
AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION. (SEE REQ. 13)

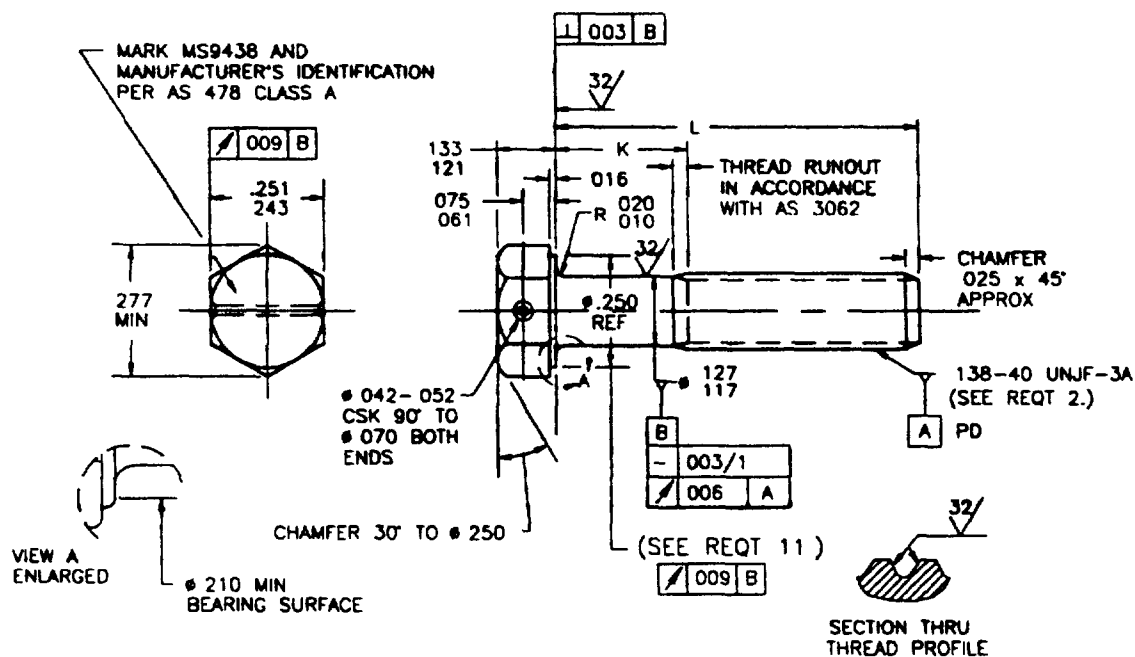


TABLE I DASH NUMBERS AND DIMENSIONS

DASH NUMBER	L	K	APPROX WEIGHT LB/100	DASH NUMBER	L	K	APPROX WEIGHT LB/100
-02	.250	.058-.078	.26	-13	.938	.352-.412	.50
-03	.312	.058-.078	.28	-14	1.000	.414-.474	.53
-04	.375	.058-.078	.31	-15	1.062	.476-.536	.55
-05	.438	.058-.078	.33	-16	1.125	.539-.599	.57
-06	.500	.058-.078	.35	-17	1.188	.602-.662	.59
-07	.562	.058-.078	.37	-18	1.250	.664-.724	.62
-08	.625	.058-.099	.39	-19	1.312	.726-.786	.64
-09	.688	.102-.162	.42	-20	1.375	.789-.849	.66
-10	.750	.164-.224	.44	-21	1.438	.852-.912	.68
-11	.812	.226-.286	.46	-22	1.500	.914-.974	.70
-12	.875	.289-.349	.48				

(B) ENTIRE DOCUMENT REVISED

ASMC N/A

1 OF 2

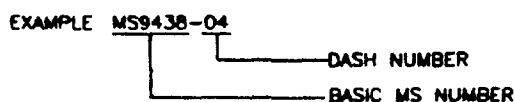
FSC 5305

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MS9438B

## REQUIREMENTS

- 1 MATERIAL STEEL IN ACCORDANCE WITH AMS 6304
- 2 THREADS THREADS IN ACCORDANCE WITH MIL-S-8879
- 3 DIMENSIONING AND TOLERANCING DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ASME Y14.5M
- 4 HEAD TO SHANK FILLET HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS
- 5 MAGNETIC PARTICLE INSPECTION MAGNETIC PARTICLE INSPECTION SHALL BE IN ACCORDANCE WITH AMS 2640
- 6 HARDNESS ROCKWELL C42-46
- 7 FINISH FINISH SHALL BE DIFFUSED NICKEL-CADMIUM PLATE IN ACCORDANCE WITH AMS 2416  
DIMENSIONS SPECIFIED ARE MET AFTER PLATING CONTACT POINTS PERMISSIBLE
- 8 SURFACE TEXTURE SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL BE 125 MICROINCHES EXCEPT UPSET HEAD IN ACCORDANCE WITH ANSI/ASME B46.1
- 9 TOLERANCE UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE FOR LINEAR DIMENSIONS  $\pm 0.10$ , ANGULAR DIMENSIONS  $\pm 5^\circ$
- 10 EDGES BREAK SHARP EDGES 003-015 UNLESS OTHERWISE SPECIFIED
- 11 BEARING SURFACE BEARING SURFACE SHALL BE FLAT AND WASHER FACED DIAMETER OF BEARING SURFACE SHALL BE EQUAL TO THE MAXIMUM WIDTH ACROSS FLATS WITHIN A TOLERANCE OF MINUS 10% IN ACCORDANCE WITH ANSI B18.2.1
- 12 PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I

EXAMPLE MS9438-04  
  
 DASH NUMBER  
 BASIC MS NUMBER

MS9438-04 INDICATES SCREW, MACHINE - STEEL, AMS 6304, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, DRILLED, 138-40 UNJF-3A, LENGTH 375

- 13 PROCUREMENT SPECIFICATION AMS 7452

## NOTES.

- 1 ALL DIMENSIONS IN INCHES
- 2 DO NOT USE UNASSIGNED PART NUMBERS
- 3 IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE.
- 4 UNLESS OTHERWISE SPECIFIED, ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION
- 5 THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE SAE AEROSPACE PROPULSION DIVISION.
- 6 AS AND AMS ARE SAE PUBLICATIONS
- 7 INACTIVE FOR NEW DESIGN AFTER 13 DECEMBER 1972 NO SUPERSEDING DOCUMENT  
THE APPLICATION FOR WHICH THE INACTIVE MS9438 PARTS WERE ORIGINALLY DESIGNED NO LONGER EXIST

MILITARY INTERESTS

CUSTODIANS

NAVY - AS  
 AIR FORCE - 82

REVIEWER

AIR FORCE 11

PREPARING ACTIVITY

DIA-IS

(PROJECT 5305-2113)