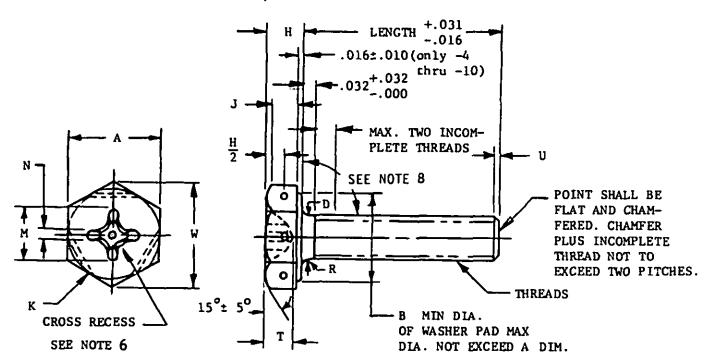
MIL-B-87114/4 24 October 1983

#### MILITARY SPECIFICATION SHEET

BOLT, HEX HEAD, CROSS RECESS, FULL THREAD, A-286 CRES, 160 Ksi Ftu

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the bolts as described herein shall consist of this document and the latest issue of specification MIL-B-87114.



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TENSILE STRENCTH LBS MAX	,	,	ı	ı	ı	ı	3,600	6,190	9,820	15,200
U	.013	.016	.018	.031	.039	.039	.039	.045	.052	.052
~	900.	.001	.003	.015	.015 .005	.005	.020	.020	.010	.025 .015
K 2/	,	1	١.	-	_		.046	.046	070.	070.
77	,	1	,	.032	050.	950.	.062	.073	.102	131
Н	.036	.036	.050	.060	.093	011. 0960.	120	.140 .125	.171	.188
DIA	.050	.073 .069	.086	.112	.138	.164	.190	.250	.312	.375
B 1/ DIA	1	-	-	.156	. 210	012.	272.	335	.398	097.
T 4/	.056	. 056	.063	870.	.086	. 101	. 116	.135	.168	.193
DRIVER SIZE	0	1	1	1	2	2	2	3	4	4
N N	.012	.012	.014	810.	.027	.028	0:00	.033	.053	950.
* 10	.095	.095	.102	116 103	.154	.169	.184	.247	.317	.329
HIN	171.	171.	171.	.207	.242	.313	.348	.480	.552	.623
<	.157	.157	.157	.189	.212.	.282	.314	.439	. 502	. 564 . 554
THRFAD 3/ S1ZE HIL-S-8879	.0600-80UNJC-3A	.0730-64UNJC-3A	.0860-56UNJC-JA	.1120-40UNJC-3A	.1380-32UNJC-3A	.1640-32UNJC-3A	1900-32UNJF-3A	. 2500-28UNJF-3A	.3125-24UNJF-3A	. 3750-24th JF-3A
DASH KO. (NOM. SIZE)	-1 (No. 0)	-2 (No. 1)	-3 (No. 2)	-4 (No. 4)	-5 (No. 6)	-6 (No. 8)	-7 (No. 10)	-8 (1/4)	-9 (5/16)	-10 (1/8)

TABLE 1 DIMENSIONS

THREAD "LENGTH" FOR SCREWS LONGER THAN 2 INCHES SHALL BE 1.75 INCHES HINIMUM 1/ CONCENTRICITY: B DIAMETER TO THREAD PITCH DIAMETER WITHIN . 005 TIR 7

GAGING OF THE CROSS RECESS SHALL BE IN ACCORDANCE WITH HS 9006. 3

DAILL K DIA THREE HOLES WITHIN .010 OF CENTER OF HEX FLAT WHEN SPECIFIED BY NUMBER -7 THRU -10 ONLY

#### MIL-B-87114/4

HEX. HEAD: The hexagon for threaded fasteners shall be in accordance with MS21132.

CROSS RECESS: The cross recess dimensions shall be in accordance with MS9006.

SCREW DRIVER: The recess screw driver shall be in accordance with GGG-S-121.

#### GENERAL REQUIREMENTS:

Material: CRES, A-286 in accordance with AMS5731 or AMS5737.

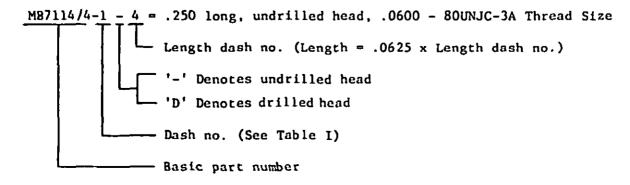
Heat Treatment: 160,000 PSI minimum tensile strength of material.

Surface Treatment: Passivate in accordance with QQ-P-35.

#### NOTES:

- 1. Dimensions in inches
- 2. Tolerances, unless otherwise specified, decimals ± .010, angles ± 1°.
- 3. Lengths in .062 inch increments.
- 4. Bolts shall be free from burrs and slivers.
- 5. Surface texture in accordance with ANSI 846.1, head to shank fillet, thread root 32 microinches, bearing surface of head 63 microinches, all surfaces finish shall be 125 microinches unless otherwise specified.
- 6. Orientation of cross recess to hexagon is optional.
- Magnetic permeability shall be less than 2.0 (AIR = 1.0) for a field strength H = 200 oersteds using a magnetic permeability indicator in accordance with MIL-I-17214.
- 8. Bearing surface squareness: Within .003 FIM with shank.
- 9. Head marking shall be in accordance with procurement specification.
- Cold working of head to shank fillet radius waived for sizes smaller than -7.

## EXAMPLE OF PART NUMBER:



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## ADMINISTRATIVE AND CONTRACTUAL PROVISIONS:

This document takes precedence over procurement documents.

Reference documents shall be of the issue in effect on date of invitation for bid.

## CUSTODIANS:

## PREPARING ACTIVITY:

Navy - AS Army - AV Air Force - 11

Navy - AS Project No. 5305 - 1502

# REVIEW ACTIVITY:

DLA-IS Air Force - 99, 82