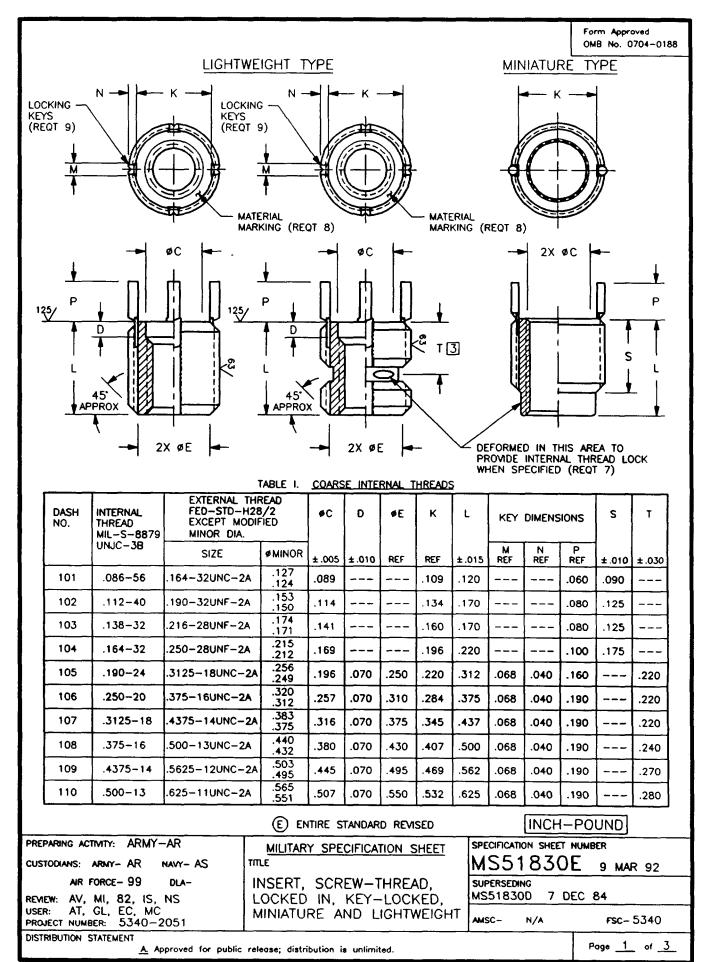
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Form Approved OMB No. 0704-0188

LIGHTWEIGHT TYPE LOCKING -LOCKING KEYS (REQT 9) KEYS (REQT 9) MATERIAL MARKING (REQT 8) MATERIAL MARKING (REQT 8) ØC 125/ D T [3] 45° \ APPROX 45°\ APPROX 2X ØE 2X ØE

AREA TO PROVIDE INTERNAL THREAD LOCK WHEN SPECIFIED (REQT 7) DEFORMED IN THIS

## TABLE II. FINE INTERNAL THREADS

DASH NO.	INTERNAL THREAD MIL-S-8879	EXTERNAL THREAD FED-STD-H28/2 EXCEPT MODIFIED MINOR DIA.		øC	D	øE	к	L	KEY DIMENSIONS		IONS	T
	UNJF-3B	SIZE	<b>ØMINOR</b>	±.005	±.010	REF	REF	±.015	M REF	N REF	P REF	±.030
201	.190-32	.3125-18UNC-2A	.256 .249	.196	.070	.250	.220	.312	.068	.040	.160	.220
202	.250-28	.375-16UNC-2A	.320 .312	.257	.070	.310	.284	.375	.068	.040	.190	.220
203	.3125-24	.4375-14UNC-2A	.383 .375	.316	.070	.375	.345	.437	.068	.040	.190	.220
204	.375-24	.500-13UNC-2A	.440 .432	.380	.070	.430	.407	.500	.068	.040	.190	.240
205	.4375-20	.5625-12UNC-2A	.503 .495	.445	.070	.495	.469	.562	.068	.040	.190	.270
206	.500-20	.625-11UNC-2A	.565 .551	.507	.070	.550	.532	.625	.068	.040	.190	.280

ARMY-AR SPECIFICATION SHEET NUMBER PREPARING ACTIVITY: MILITARY SPECIFICATION SHEET MS51830E 9 MAR 92 NAVY- AS CUSTODIANS: ARMY- AR SUPERSEDING AR FORCE- 99 INSERT, SCREW-THREAD, DLA-MS51830D 7 DEC 84 LOCKED IN, KEY-LOCKED, REVIEW: AV, MI, 82, IS, NS AT, GL, EC, MC NUMBER: 5340-2051 USER: MINIATURE AND LIGHTWEIGHT AMSC-N/A FSC-5340 PROJECT NUMBER: DISTRIBUTION STATEMENT Page 2 of 3

A Approved for public release; distribution is unlimited.

REQUIREMENTS:

Form Approved OMB No. 0704-0188

- MATERIAL; STEEL, CORROSION-RESISTANT, TYPE 303 (UNS \$30300) IN ACCORDANCE WITH AMS 5640 (TYPE 1) OR ASTM A 582, OR 303SE (UNS \$30323) IN ACCORDANCE WITH AMS 5640 (TYPE 2), AMS 5738 OR ASTM A 582. STEEL, CORROSION-RESISTANT, TYPE A286 (UNS \$66286) IN ACCORDANCE WITH AMS 5734 OR AMS 5737. STEEL, ALLOY, GRADE 4140 (UNS G41400) IN ACCORDANCE WITH MIL-S-5626 OR GRADE 8740 (UNS G87400) IN ACCORDANCE WITH AMS 6322.
  - LOCKING KEYS: STEEL, CORROSION-RESISTANT, TYPE 302 CHEMICAL COMPOSITION OF ASTM A 580 ONLY.
- 2. CADMIUM PLATING AND SURFACE TREATMENT: CORROSION-RESISTANT STEEL SHALL BE PASSIVATED IN ACCORDANCE WITH QQ-P-35.

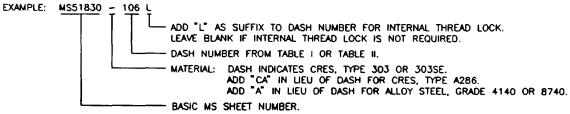
ALLOY STEEL SHALL BE CADMIUM PLATED IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 3. THE LOCKING KEYS MAY OR MAY NOT BE CADMIUM PLATED.

- 3. <u>LUBRICATION</u>; INSERTS WITH SELF-LOCKING INTERNAL THREADS SHALL BE DRY FILM LUBRICATED IN ACCORDANCE WITH MIL-L-46010, TYPE I. THE LOCKING KEYS MAY OR MAY NOT BE LUBRICATED.
- 4. SURFACE TEXTURE: MACHINED SURFACES SHALL BE IN ACCORDANCE WITH ANSI/ASME B46.1.
- HEAT TREATMENT: ALLOY STEEL INSERTS SHALL BE HEAT TREATED TO 160,000 psi Ftu MINIMUM IN ACCORDANCE WITH MIL-H-6875.

CORROSION-RESISTANT STEEL INSERTS, TYPE A286 (AMS 5734), SHALL BE HEAT TREATED TO 140,000 psi Ftu MINIMUM.

- 6. HARDNESS: ALLOY STEEL INSERTS SHALL HAVE A HARDNESS RANGE OF 36-40 HRC.

  CORROSION-RESISTANT STEEL INSERTS, TYPE A286, SHALL HAVE A HARDNESS RANGE OF 29-38 HRC.
- 7. PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE BASIC MS SHEET NUMBER PLUS THE DASH NUMBER TAKEN FROM TABLE I OR TABLE II, AS APPLICABLE:



EXAMPLE: MS51830CA106L INDICATES - INSERT, SCREW-THREAD, LOCKED IN, KEY-LOCKED, LIGHTWEIGHT, CRES A286, .250-20UNJC-3B INTERNAL THREAD WITH INTERNAL THREAD LOCK FEATURE.

- 8. MATERIAL MARKING: CRES 303 OR 303SE HAS NO IDENTIFYING MARK.

  CRES A286 SHALL BE IDENTIFIED ON TOP OF INSERT BY ONE (1) LINE OR DASH MARK.

  ALLOY STEEL 4140 OR 8740 SHALL BE IDENTIFIED ON TOP OF INSERT BY TWO (2) PARALLEL LINES OR DASH MARKS.
  - INSERTS WITH INTERNAL THREAD SIZE .250 AND SMALLER SHALL BE SUPPLIED WITH TWO (2) LOCKING KEYS SPACED 180° APART.

INSERTS WITH INTERNAL THREAD SIZE .3125 AND GREATER SHALL BE SUPPLIED WITH FOUR (4) LOCKING KEYS SPACED 90' APART.

10. INSERTS SHALL BE FREE OF ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

MATERIAL MARKING OF MINIATURE TYPE INSERTS OPTIONAL.

- THE STATE OF THE OF THE PARTY OF THE TANGET BOTTON WIGHT BECOME DISCORDED UNDER USAGE
- 11. SOURCE IDENTIFICATION MARK: SOURCE IDENTIFICATION MARK SHALL BE IN ACCORDANCE WITH MIL-1-45914.
- 12. ALL DIMENSIONS ARE AFTER CADMIUM PLATING OR SURFACE TREATMENT AND PRIOR TO THE ADDITION OF THE LUBRICATION.
- 13. FILLETS ARE R.015 MAXIMUM.

## NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. INSTALLATION OF INSERTS SHALL BE IN ACCORDANCE WITH MS51835.
- 3 DISTANCE TO CENTER OF INTERNAL THREAD LOCK.
- 4. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
- REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

PREPARING ACTIVITY: ARMY—AR	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER					
CUSTODIANS: ARMY- AR NAVY- AS	TITLE	MS51830E 9 MAR 92					
AIR FORCE- 99 DLA-	INSERT, SCREW-THREAD,	SUPERSEDING					
REMEW: AV, MI, 82, IS, NS	LOCKED IN, KEY-LOCKED.	MS51830D 7 DEC 84					
USER: AT, GL, EC, MC PROJECT NUMBER: 5340-2051	MINIATURE AND LIGHTWEIGHT	AMSC- N/A FSC- 5340					
DISTRIBUTION STATEMENT  A Approved for public release; distribution is unlimited.  Page 3 of 3							