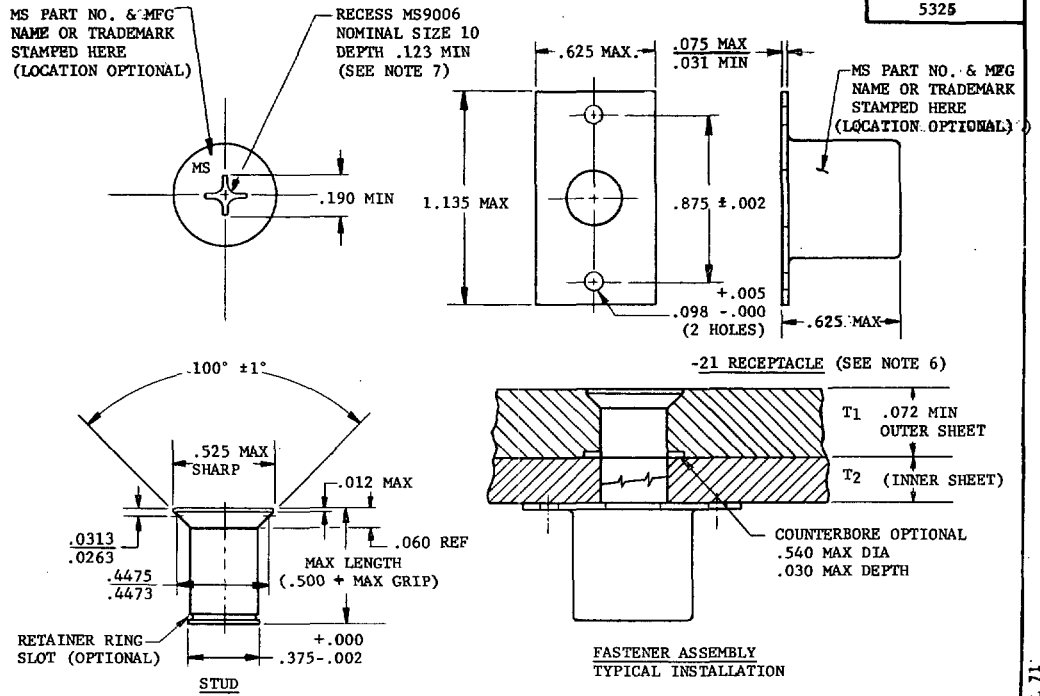


USER SYMBOLS:

REVIEWER SYMBOLS:

"Review/user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current DODISS."

This military standard is mandatory for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.



MS PART NUMBER		GRIP RANGE	WEIGHT - LBS MAXIMUM			
FASTENER ASSEMBLY	** STUD	** RECEPTACLE	T ₁ + T ₂	FASTENER ASSEMBLY	STUD	RECEPTACLE
MS17731-1	MS17731-1A	MS17731-21	.150-.220	.040	.015	.025
MS17731-2	MS17731-2A		.221-.290	.041	.016	
MS17731-3	MS17731-3A		.291-.360	.043	.018	
MS17731-4	MS17731-4A		.361-.430	.045	.020	
MS17731-5	MS17731-5A		.431-.500	.046	.021	
MS17731-6	MS17731-6A		.501-.570	.047	.022	
MS17731-7	MS17731-7A		.571-.640	.049	.024	
MS17731-8	MS17731-8A		.641-.710	.051	.026	
MS17731-9	MS17731-9A		.711-.780	.053	.028	

* THE GOVERNMENT SERVICES SHALL PROCURE AND STOCK ONLY COMPLETE ASSEMBLIES, PART NOS. MS17731-1 THRU MS17731-9.

** PART NOS. MS17731-1A THRU MS17731-9A AND MS17731-21 ASSIGNED FOR IDENTIFICATION PURPOSES ONLY AND SHALL NOT BE PROCURED OR STOCKED BY THE GOVERNMENT SERVICES.

- NOTES:
1. MATERIAL: STEEL - CARBON & ALLOY-FEDERAL STANDARD NO.66, TABLE 3, TABLE 8, TABLE 18.
 2. FINISH: CADMIUM PLATE - QQ-P-416, TYPE II, CLASS 3.
 3. TEMPERATURE: 500°F MAXIMUM.
 4. DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES ± .010.
 5. BREAK ALL SHARP EDGES AND CORNERS AND REMOVE ALL BURRS AND SLIVERS.
 6. FLOAT OF RECEPTACLE SHALL NOT BE LESS THAN .020 IN ANY DIRECTION FROM THE CENTER POSITION.
 7. DIMENSIONING AND GAGING OF THE ABOVE RECESS SHALL BE IN ACCORDANCE WITH MILITARY STANDARD DRAWING MS9006, CROSS RECESS AND GAGE DIMENSIONS.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

ENTIRE STANDARD REVISED AND REDRAWN

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE FASTENER, ROTARY, QUICK-OPERATING, FLUSH HEAD, FLOATING TYPE, 2210 LBS MIN TENSILE STRENGTH	MILITARY STANDARD MS17731
PROCUREMENT SPECIFICATION MIL-F-22978	SUPERSEDES:	SHEET 1 OF 1

APPROVED 20 AUG 62 REVISED 10 JUN 63 20 JAN 69 19 JUL 71