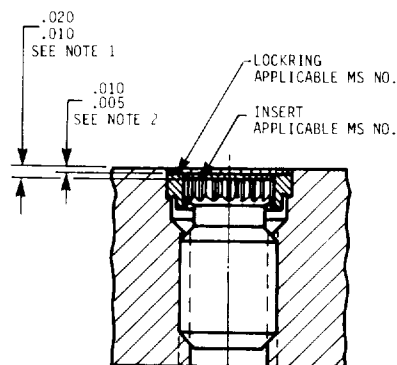
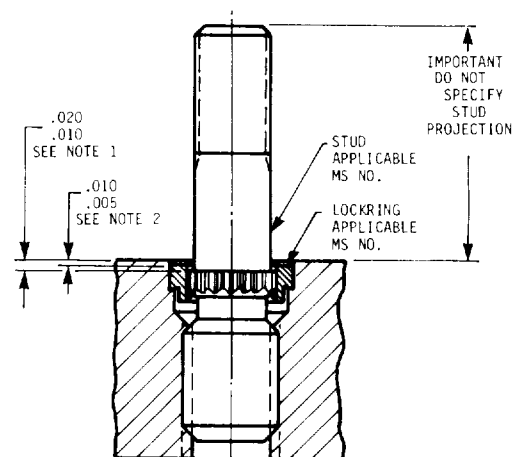


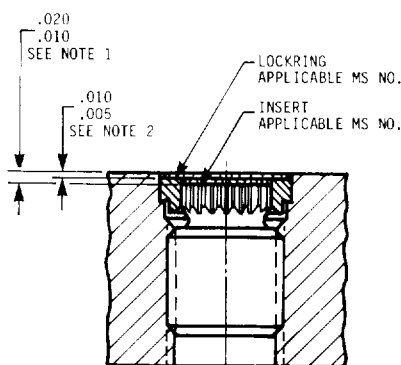
FED. SUP CLASS  
53GPUser activities:  
Army - MI  
Navy - MC, OSReview activities:  
Army - AI, AV, ER, GL  
Air Force - 11, 82  
NSA - NS  
DLA - 15DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.  
This military standard is approved for use by all Departments and Agencies of the Department of Defense.  
Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

MS51991 INSERT WITH MS51990 LOCKING

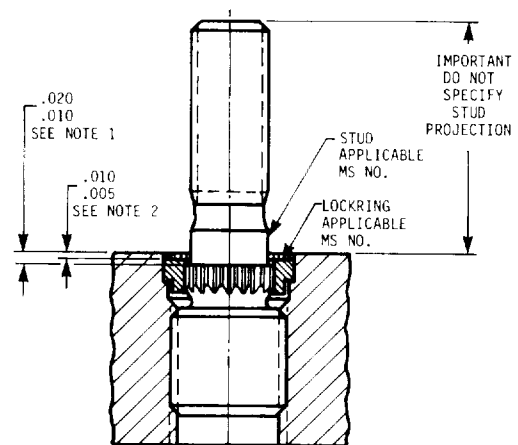


MS51989 OR MS51551 STUD WITH MS51990 LOCKING

HOLE PREPARATION IN ACCORDANCE WITH MS51994 PER APPLICABLE EXTERNAL THREAD OF INSERT OR STUD END THREAD OF STUD AND CORRESPONDING DASH NUMBER.



MS51993 INSERT AND MS51498 OVERSIZE INSERT WITH MS51997 LOCKING



MS51992 STUD AND MS51497 OVERSIZE STUD WITH MS51997 LOCKING

HOLE PREPARATION IN ACCORDANCE WITH MS51996 PER APPLICABLE EXTERNAL THREAD OF INSERT OR STUD END THREAD OF STUD AND CORRESPONDING DASH NUMBER.

## NOTES:

1. INSTALL INSERT OR STUD TO DEPTH SHOWN.
2. DRIVE LOCKRING TO DEPTH SHOWN.
3. TYPICAL DRAWING CALLOUT TO BE LOCATED IN VICINITY OF PART IDENTIFICATION:

FOR INSERT

FOR STUD

INSTALL INSERT IN ACCORDANCE WITH MS51995

INSTALL STUD IN ACCORDANCE WITH MS51995

INSERT VIEW

STUD VIEW

4. REPLACEMENT OF INSERTS, STUDS AND LOCKRINGS IS MADE WITH SAME SIZE PARTS AS THOSE REMOVED. USE ABOVE INSTALLATION PROCEDURE EXCEPT BEFORE DRIVING NEW LOCKRING, ROTATE THE LOCKRING EXTERNAL SERRATIONS TO A POSITION ALIGNED WITH THOSE IN PARENT MATERIAL. IF PARENT MATERIAL IS DAMAGED, USE OVERSIZE INSERTS OR OVERSIZE STUDS SPECIFIED ABOVE.
5. DIMENSIONS ARE IN INCHES.
6. 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.

THIS IS A DESIGN STANDARD. NOT TO BE USED AS A PART NUMBER.

C DENOTES CHANGES

P. A.	AR	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust	AS		FASTENERS, RING LOCKED INSERTS AND STUDS, INSTALLATION AND REPLACEMENT OF	MS51995
	99			
PROCUREMENT SPECIFICATION	NONE	SUPERSEDES:		PAGE 1 OF 1

AMSC N/A DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS STANDARD ARE OBSOLETE

53GP-0200

APPROVED 17 AUG 66 REVISED C 12 FEB 88