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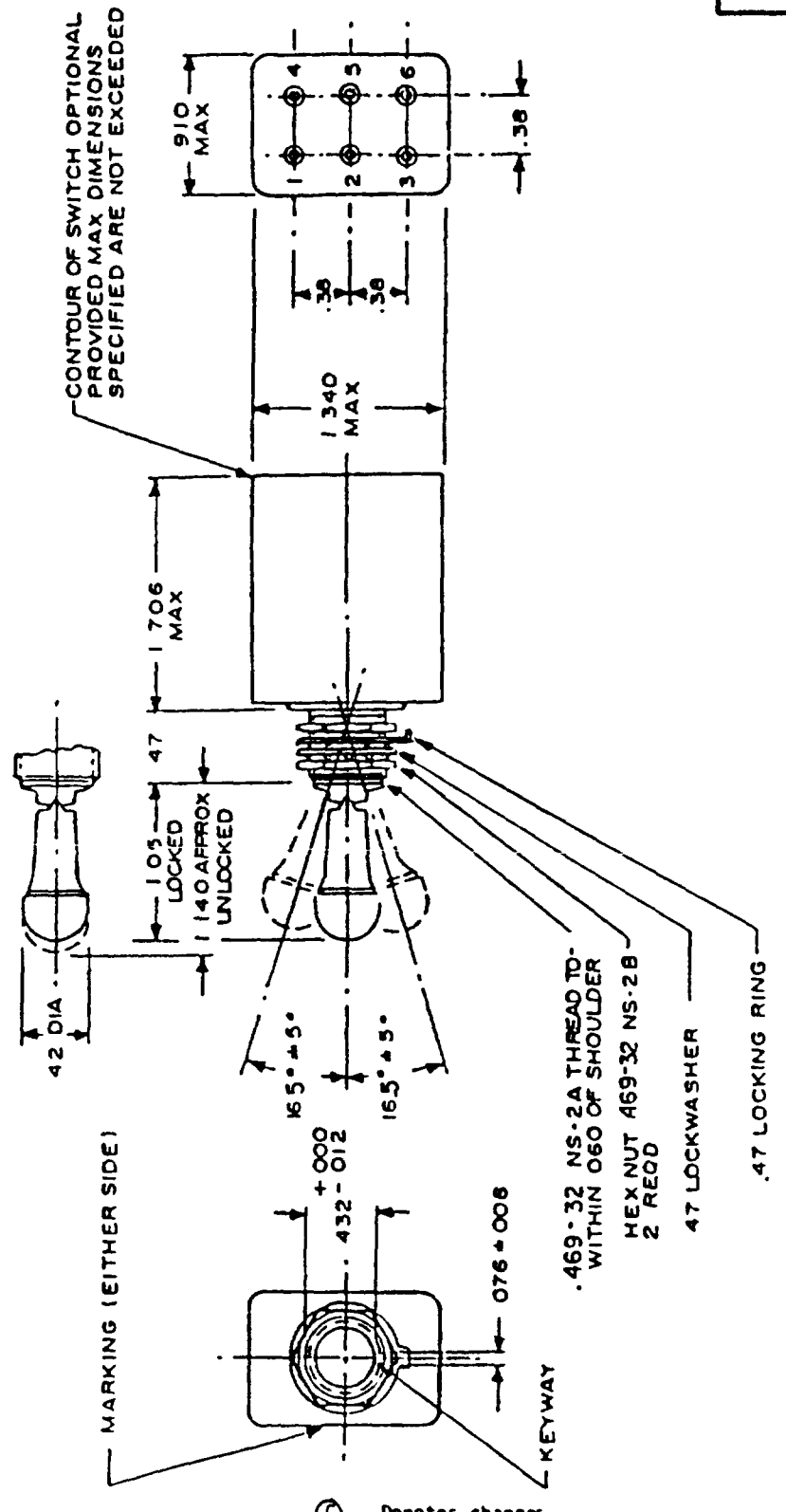

© Denotes changes

APPROVED 15 May 1972 — REVISED (A) 14 May 1974 (B) 25 Apr 1975 (C) 28 Sep 1987

User activity: Air Force - 11

Review activities: Army - AV, Navy - EC, Air Force - 99, DLA - ES

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.

P A Air Force - 85 Other Cust Army - ER Navy - AS	International Interest	TITLE SWITCH, TOGGLE, TWO POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS	MILITARY STANDARD MS27788
Procurement Specification MIL-S-3950		SUPERSEDES	PAGE 1 OF 4

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5930-1358-27

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

Inches	mm	Inches	mm
.005	0.13	.432	10.97
.008	0.20	.469	11.91
.012	0.30	.47	11.9
.020	0.51	.910	23.11
.060	1.52	1.05	26.7
.076	1.93	1.140	28.96
.38	9.7	1.340	34.04
.42	10.7	1.706	43.33

NOTES:
1. Dimensions are inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ±.020 (0.51 mm) for two place decimals and ±.005 (0.13 mm) for three place decimals.
4. For hardware detail specifications see appendix of MIL-S-3950.
5. Contact installing/removal tool in accordance with M81969/14-02.
6. Grommet sealing plug in accordance with MS27488A20.
7. Sealing grommet shall seal on a smooth wire insulation of .040 (1.02 mm) to .083 (2.11 mm) diameters.
8. Terminals shall adequately accept a wire contact dimensional limits of M39029/1-101.
9. The terminal end of switch shall be color coded red to indicate contact size.
10. Direction of internal mechanism movement is opposite to the direction of the toggle movement.
11. Sealing plugs may be used in nonfunctional grommet holes.
12. Maximum weight is .137 pound.
13. Locking arrangement: Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually realeased.
14. The force required to release the locking mechanism shall be 3 to 5 pounds.
15. The locking means at the top of the toggle bushing shall be capable of withstanding a torque of 20 inch-pounds applied in both directions immediately following the humidity test.
16. Part number example: MS27788-21A (locking combination 'A').
17. In the event of a conflict between the text of this standard and the reference cited herein, the text of this standard shall take precedence.
18. Referenced 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.

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APPROVED 15 May 1972

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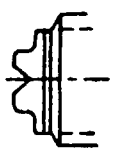
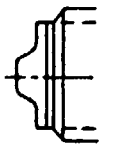
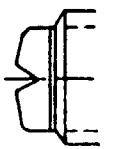
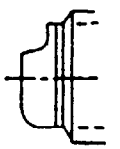
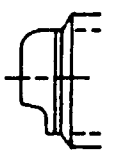
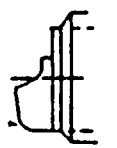
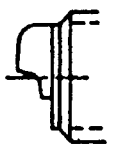
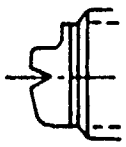
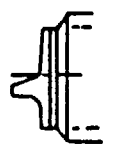
PA	Air Force - 85 Other Cust Army - ER Navy - AS
Procurement Specification	MIL-S-3950
Interchangeability	
SUPERSEDES	
TITLE	SWITCH, TOGGLE, TWO POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS
MILITARY STANDARD	MS27788
PAGE 3 OF 4	

Locking combinations

A  LOCKED IN THREE POSITIONS	B  LOCKED IN CENTER AND DOWN POSITIONS (KEYING SIDE)	D  LOCKED OUT OF CENTER POSITION	E  LOCKED IN CENTER POSITION	F  LOCKED IN UP POSITION (OPPOSITE KEYING)	G  LOCKED IN DOWN POSITION (KEYING SIDE)	H  LOCKED OUT OF CENTER AND DOWN POSITION (KEYING SIDE)
J  LOCKED OUT OF CENTER AND UP POSITION (OPPOSITE KEYING)	K  LOCKED IN CENTER AND UP POSITION (OPPOSITE KEYING)	L  LOCKED OUT OF DOWN POSITION (KEYING SIDE)	M  LOCKED OUT OF AND INTO UP POSITION (OPPOSITE KEYING)	N  LOCKED OUT OF UP POSITION (OPPOSITE KEYING)	P  LOCKED OUT OF AND INTO DOWN POSITION (KEYING SIDE)	FIGURES A THROUGH P DO NOT REPRESENT DETAILS OF CONSTRUCTION. THEY SCHEMATICALLY ILLUSTRATE LOCKING CONFIGURATIONS AND MOMENTARY POSITIONS

FED SUP CLASS 5930

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Navy - EC
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DLA - ES

User activity: Air Force - 11

DD FORM 1 MAY 73 672 (Coordinated previous editions of this form are obsolete)

PA: Air Force - 85
Other Cust: Army - ER
Navy - AS

Procurement Specification: MIL-S-3950

SUPERSEDES

TITLE: SWITCH, TOGGLE, TWO POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS

MILITARY STANDARD

MS27788

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Detail requirements.

MS part number	Available locking combinations	Circuit with toggle lever in			Current capacity (amperes) 28 volts dc			Current capacity (amperes) 115 volts, 60 and 400 hertz ac		
		Keying side	Center	Opposite keying side	Lamp-load circuit	Resistive circuit	Inductive circuit	Lamp-load circuit	Resistive circuit	Inductive circuit
MS27788-1	All	1-2 On 4-5	1-2 On 5-6	2-3 On 5-6	7	7.5	7.5	4	7.5	7.5
MS27788-2	E, F, K, L, M, N	Mom. 1-2 on 4-5	1-2 On 5-6	2-3 On 5-6						
MS27788-3	E, L, N	Mom. 1-2 on 4-5	1-2 On 5-6	Mom. 2-3 on 5-6	5	7.5	7.5	2	7.5	7.5
MS27788-21	All	1-2 On 4-5	Off	2-3 On 5-6						
MS27788-22	D, F, G	Off	None	2-3 On 5-6	7	7.5	7.5	4	7.5	7.5
MS27788-23	D, F, G	1-2 On 4-5	None	2-3 On 5-6						
MS27788-24	E, F, K, M	None	Off	2-3 On 5-6						
MS27788-25	F	None	Mom. off	2-3 On 5-6						
MS27788-26	F	Mom. 1-2 on 4-5	None	2-3 On 5-6						
MS27788-27	E, L, N	Mom. 1-2 on 4-5	Off	Mom. 2-3 on 5-6						
MS27788-28	E	Mom. 1-2 on 4-5	Off	None	5	7.5	7.5	2	7.5	7.5
MS27788-29	F	Mom. off	None	2-3 On 5-6						
MS27788-30	F	Mom. 1-2 on 4-5	None	Off						
MS27788-31	E, F, K, L, M, N	Mom 1-2 on 4-5	Off	2-3 On 5-6						
MS27788-32	E	None	1-2 On 4-5	Mom. 2-3 on 5-6						
MS27788-33	E, F, K, M	None	1-2 On 4-5	2-3 On 5-6	7	7.6	7.5	4	7.5	7.5

Test requirements:

Test shall be performed in accordance with MIL-S-3950 except

a. During all tests, switches shall be fully wired with appropriate wire and terminal contacts.
b. Contact voltage drop - the contact voltage drop with two terminals and the switch contact in series shall not exceed 8 millivolts measured from one wire contact through the contacts to the other wire contacts.

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