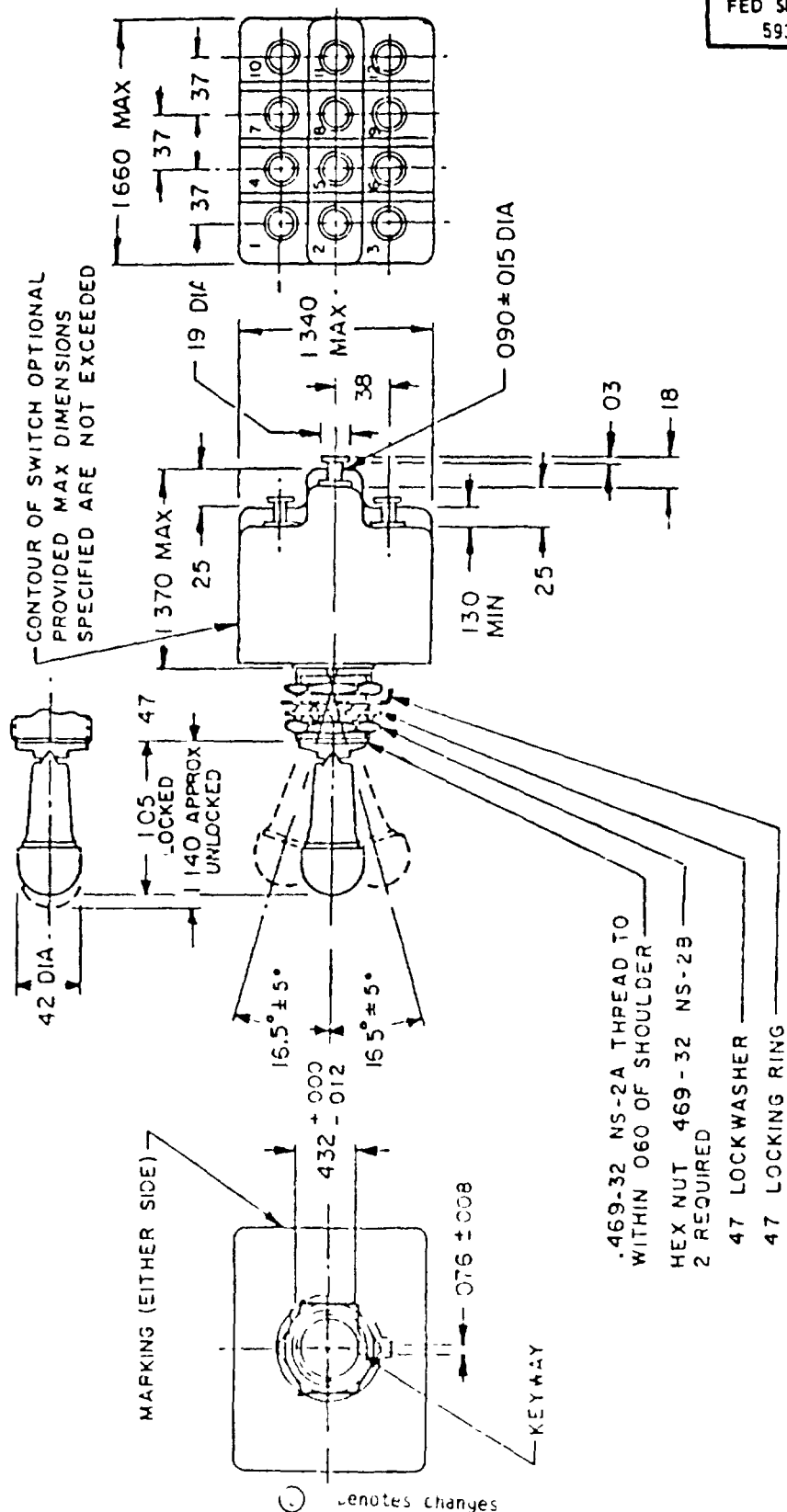


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APPROVED	15 Sep 1970	REVISED	22 Apr 1971	27 Jun 1972	14 May 1974	25 April 1975	26 Sep 1987
			(A)	(B)	(C)	(D)	(E)

P - Air Force - 15 Other Cust Army - EP Navy - AS	International interest	TITLE SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, SOLDER TERMINAL	MILITARY STANDARD MS27739
Procurement Specification MIL-S-3950	SUPERSEDES		PAGE 1 OF 4

DD FORM 672
1 MAY 73

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5930-1358-19

AMSC N/A

DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited

Inches	mm	Inches	mm
.005	0.13	.25	6.4
.008	0.20	.37	9.4
.012	0.30	.38	9.7
.015	0.38	.42	10.7
.020	0.51	.432	10.97
.03	0.8	.469	11.91
.060	1.52	.47	11.9
.076	1.93	1.05	26.7
.090	2.29	1.140	28.96
.130	3.30	1.370	34.80
.18	4.6	1.660	42.16
.19	4.8		

NOTES

1. Dimensions are inches
2. Metric equivalents are given for general information only
3. Unless otherwise specified, tolerance is ± 0.020 (0.51 mm) for two place decimals and ± 0.005 (0.13 mm) for three place decimals
4. For hardware detail specifications, see appendix of MIL-S-3950
5. All switches on this standard are designed so that the movement of the switch mechanism is opposite to that of the toggle lever.
6. Maximum weight is 0.23 pound
7. Locking arrangement Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released
8. The force required to release the locking mechanism shall be 3 to 5 pounds
9. 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
10. Part number example MS27739-21A (locking combination 'A')
11. 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.
12. 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

for changes see page 2

REVISED (F)

15 Sep 1970

APPROVED

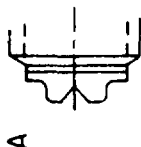
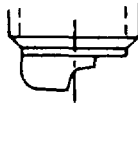
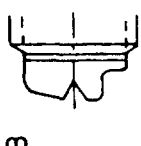
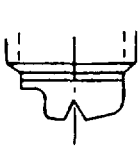
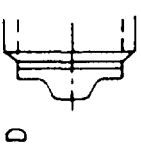
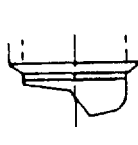
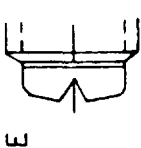
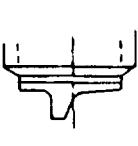
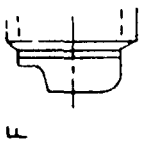
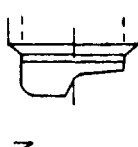
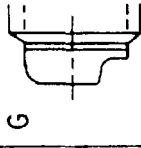
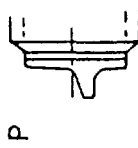
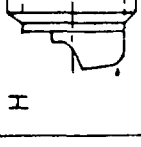
P A Air Force - 85 Other Cust Army - ER Navy - AS	International Interest	TITLE SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, SOLDER TERMINAL	MILITARY STANDARD
			MS27739
Procurement Specification MIL-S-3950		SUPERSEDES	PAGE 2 OF 4

User activity Air Force - 11

Review activities Army - AV
Navy - 11
Air Force - 33
CJA - 15

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Locking combinations

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

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User activity Air Force - 11

Army - AV
Navy - EC
Air Force - 99
DLA - ES

Review activities

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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 Resistive circuit	Inductive circuit	Resistive circuit
IMS27739-1	A11	1-2 4-5 12-3	4-5 12-3	5-6 11-12	5	20	15
IMS27739-2	E, F, K, L, M, N	1-2 Mom. 4-5 12-3	4-5 12-3	5-6 11-12	4	18	11
IMS27739-3	E, L, N	1-2 Mom. 4-5 11-12	4-5 12-3	5-6 11-12			
IMS27739-21	A11	1-2 7-8 11-12	Off	5-6 On 11-12			
IMS27739-22	D, F, G	Off	None	5-6 On 11-12	5	20	15
IMS27739-23	D, F, G	1-2 7-8 11-12	None	5-6 On 11-12			
IMS27739-24	E, F, K, M	None	Off	5-6 On 11-12			
IMS27739-25	F	None	Mom. off	5-6 On 11-12			
IMS27739-26	F	1-2 Mom. 7-8 11-12	None	5-6 On 11-12			
IMS27739-27	E, L, N	1-2 Mom. 7-8 11-12	Off	5-6 On 11-12			
IMS27739-28	E	1-2 Mom. 7-8 11-12	Off	None	4	18	11
IMS27739-29	F	Mom. off	None	5-6 On 11-12			
IMS27739-30	F	1-2 Mom. 7-8 11-12	None	Off			
IMS27739-31	E, F, K, L, M, N	1-2 Mom. 7-8 11-12	Off	5-6 On 11-12			
IMS27739-32	E	None	1-2 7-8 11-12	5-6 On 11-12			
IMS27739-33	E, F, K, M	None	1-2 7-8 11-12	5-6 On 11-12	5	20	15

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APPROVED 15 Sep 1970 REVISED (E) For change, see page 2