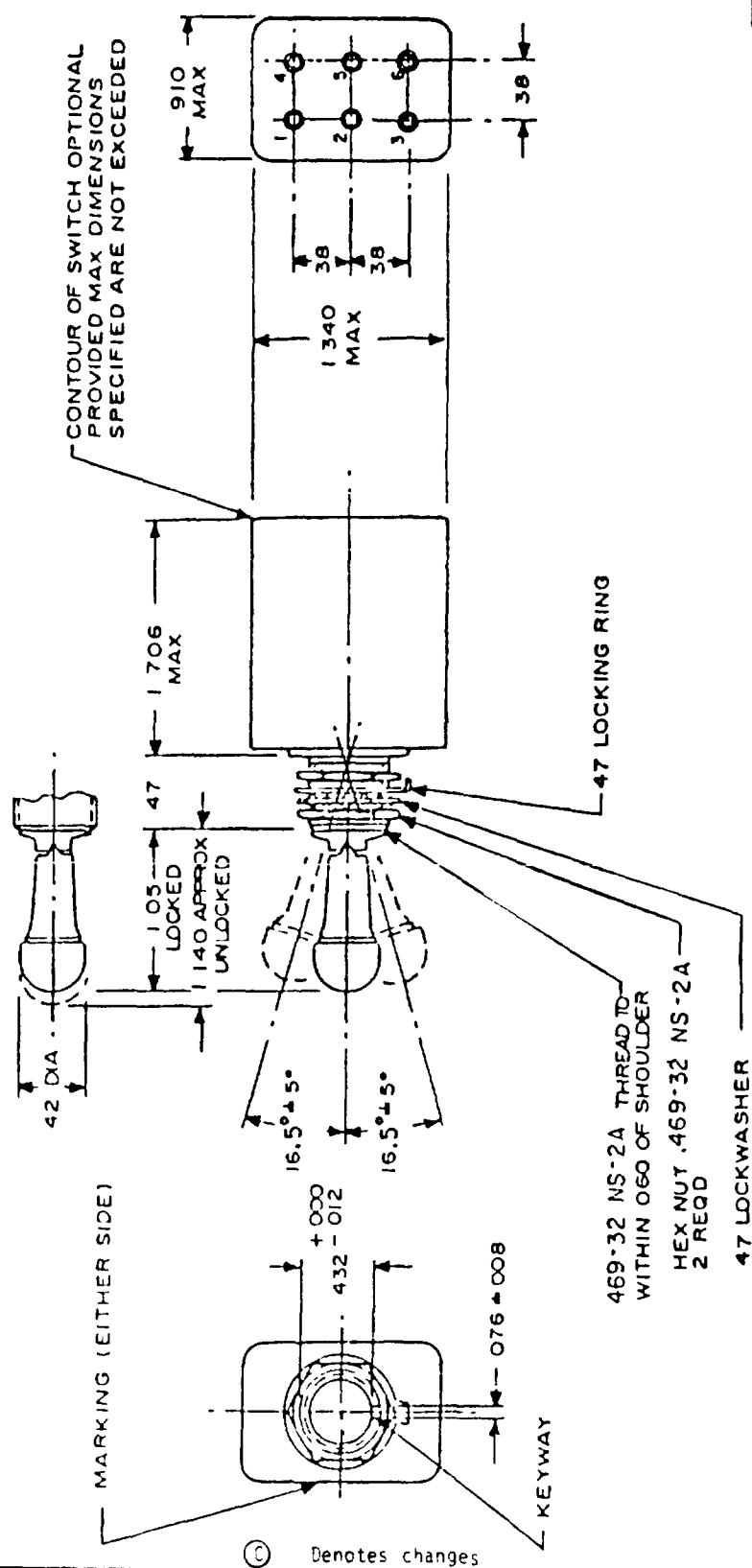


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APPROVED	15 May 1972	REVISED	(A) 14 May 19'4	(B) 25 Apr 1975	(C) 28 Sep 1987
<p>1. The first two paragraphs of the first section of the report are to be revised as follows:</p> <p>The first paragraph is to be revised to read:</p> <p>The second paragraph is to be revised to read:</p>					

Para Air Force - 85 Other Cust Army - EP Navy - AS	International interest	TITLE SWITCH, TOGGLE, TWO POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS	MILITARY STANDARD  MS27782
Description Specification MIL-S-3950	SUPERSEDES	PAGE 1 OF 4	

DD FORM 672  
MAY 63

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5930-1358-21

AMSC N/A

DISTRIBUTION STATEMENT A

Approved for public release, distribution is unlimited

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User activity Air Force - 11

Review activities  
Army - AV  
Navy - FC  
Air Force - 99  
DLA - ES

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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  $\pm 0.020$  (0.51 mm) for two place decimals and  $\pm 0.005$  (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 M81969/14-03
6. Grommet sealing plug in accordance with MS27488A16.
7. Sealing grommet shall seal on a smooth wire insulation of .068 (1.73 mm) to 103 (2.62 mm) diameters
8. Terminal shall adequately accept a wire contact within dimensional limits of M39029/1-102.
9. The terminal end of switch shall be color coded blue 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 released
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 MS27782-21A (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.

for charges see page 2

REVISED

15 May 1972

APPROVED

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  <b>MS27782</b>
Procurement Specification MIL-S-3950		SUPERSEDES	PAGE 2 OF 4

User activity Air Force - 11

Review activity of  
Air Force - 11  
Air Force - 11  
LA - 15

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## 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 CON- STRUCTION THEY SCHEMATICALLY ILLUSTRATE LOCKING CONFIGURATIONS AND MOMENTARY POSITIONS	

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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
Procurement Specification MIL-S-3950			MS27782  PAGE 3 OF 4

Review activities  
 A - AV  
 Navy - EC  
 Air Force - 93  
 DLA - ES

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P A  
 Air Force - 85  
 Other Cust  
 Army - ER  
 Navy - AS

Procurement Specification  
 MIL-S-3950

DD FORM 1 MAY 73 672

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# Detail requirements

MS part number	Available locking combinations	Circuit with toggle lever in		Current capacity (amperes)		Current capacity (amperes)	
		Keying side	Center	Opposite keying side	Lamp-load Resistive circuit	Inductive circuit	Resistive Inductive circuit
IMS27782-1	All	1-2 On 4-5	1-2 On 5-6	2-3 On 5-6	7	20	15
IMS27782-2	E, F, K, L, M, N	1-2 On 4-5	1-2 On 5-6	2-3 On 5-6			
IMS27782-3	E, L, N	1-2 On 4-5	1-2 On 5-6	2-3 On 5-6	5	18	10
IMS27782-21	All	1-2 On 4-5	Off	2-3 On 5-6			
IMS27782-22	D, F, G	Off	None	2-3 On 5-6	7	20	15
IMS27782-23	D, F, G	1-2 On 4-5	None	2-3 On 5-6			
IMS27782-24	E, F, K, M	None	Off	2-3 On 5-6			
IMS27782-25	F	None	Mom. off	2-3 On 5-6			
IMS27782-26	F	1-2 On 4-5	None	2-3 On 5-6			
IMS27782-27	E, L, N	1-2 On 4-5	Off	2-3 On 5-6			
IMS27782-28	E	1-2 On 4-5	Off	None	5	18	10
IMS27782-29	F	Mom. off	None	2-3 On 5-6			
IMS27782-30	F	1-2 On 4-5	None	Off			
IMS27782-31	E, F, K, L, M, N	1-2 On 4-5	Off	2-3 On 5-6			
IMS27782-32	E	None	1-2 On 4-5	2-3 On 5-6	7	20	15
IMS27782-33	E, F, K, M	None	1-2 On 4-5	2-3 On 5-6			

## Test requirements

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

- During all tests, switches shall be fully wired with appropriate wire and terminal contacts
- 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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MILITARY STANDARD

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