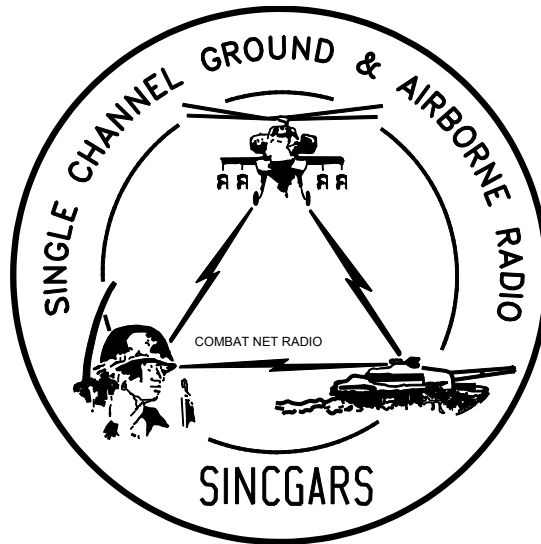

TECHNICAL BULLETIN



**TEST OF CABLE ASSEMBLY, PRINTED,
FLEXIBLE – SWITCH (NSN 5995-01-412-4381)**

USED IN SINGARS

RT-1523B(C)/U (NSN 5820-01-365-2725)

AND

RT-1523C(C)/U (NSN 5820-01-363-6929)

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

1 OCTOBER 2006

LIST OF EFFECTIVE PAGES

NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Dates of issue for original and changed pages are:

Original..... 0..... 01 October 2006

Page No.	* Change No.
Title	0
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* Zero in this column indicates an original page.

Technical Bulletin
 No. 11-5820-890-30-7

HEADQUARTERS,
 DEPARTMENT OF THE ARMY
 Washington, D.C., 1 October 2006

**TEST OF CABLE ASSEMBLY, PRINTED,
 FLEXIBLE - SWITCH (NSN 5995-01-412-4381)
 USED IN SINGARS
 RT-1523B(C)/U (NSN 5820-01-365-2725)
 AND
 RT-1523C(C)/U (NSN 5820-01-363-6929)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. We'd prefer that you submit your recommended changes electronically, either by e-mail (AMSEL-LC-LEO-PUBS-CHG@mail1.monmouth.army.mil) or online (<http://edm.monmouth.army.mil/pubs/2028.html>). Alternatively, you may mail or fax your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) to: Commander, US Army Communications-Electronics Life Cycle Management Command (C-E LCMC) and Fort Monmouth, ATTN: AMSEL-LC-LEO-E-ED, Fort Monmouth, NJ 07703-5006. The fax number is 732-532-3421, DSN 992-3421.

In any case, we will send you a reply.

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GENERAL INFORMATION.

SCOPE.

This Technical Bulletin (TB) provides information and procedures for the determination of a defective Cable Assembly, Printed, Flexible-Switch Assembly (1A17A1W2), (NSN 5995-01-412-4381).

CONSOLIDATED INDEX OF ARMY PUBLICATIONS AND BLANK FORMS.

Refer to the latest issue of DA Pam 25-30 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

MAINTENANCE FORMS, RECORDS, AND REPORTS.

Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 750-8 and DA Pam 738-751, as contained in Maintenance Management Update.

Reporting of Discrepancies. Fill out and forward SF 364 (Supply Discrepancy Report (SDR)) as prescribed in AR 735-11-2.

DESTRUCTION OF ARMY ELECTRONICS MATERIEL.

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

If your equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to: Commander, U. S. Army Communications-Electronics Life Cycle Management Command and Fort Monmouth, ATTN: AMSEL-LC-LEO-D-CS-CFO, Fort Monmouth, New Jersey 07703-5006. We'll send you a reply

1. **INTRODUCTION.** Cable Assembly, Printed, Flexible-Switch (1A17A1W2) (NSN 5995-01-412-4381) may be subject to a manufacturing defect which will render a receiver-transmitter Not Mission Capable. The Cable Assembly is used in SINCGARS RT-1523B(C)/U (NSN 5820-01-365-2725) and RT-1523C(C)/U (NSN 5820-01-363-6929). Use this Technical Bulletin to determine whether a Cable Assembly, either installed in a radio or in stock, is defective. Defective cables will be returned to the manufacturer for repair and subsequent return to the sending unit.
2. **TEST CABLE ASSEMBLY INSTALLED IN RADIO.** Test a radio for a defective Cable Assembly by checking for incorrect display of FH when mode switch is set to FH-M during front panel switch check.

a. Remove all cables from RT front panel.

b. Set RT:

Response: None

CHAN: MAN
COMSEC: PT
RF: M
MODE: FH
FCTN: OFF
DIM: fully CW
VOL: midrange and pushed in

c. Set RT:

Response: RT display reads "FPTST"

FCTN: TST
 When RT displays "GOOD"
 press RCU/2 keypad button.
 You will have seven (7) seconds
 to do the following step. If
 RT times out, wait for display to
 read "GOOD" and press RCU/2
 keypad button to re-initiate the
 Front Panel Test.

d. Set RT:

MODE: FH-M

Response:

If "FH-M" is displayed, the Flex-Switch Assembly is good. If "FH" is displayed the Flex-Switch Assembly is bad. Remove and replace in accordance with TM 11-5820-890-30-6, Chapter 5. Return to manufacturer in accordance with shipping instructions in paragraph 4.

3. INSPECT CABLE ASSEMBLY NOT INSTALLED IN RADIO: If the Flexible-Switch Assembly (1A17A1W2) is not installed, screen the assembly as follows:

- a. Place flex-switch assembly as shown in figure 1.
- b. Check rotary switch S4 for pin placement and soldered pins. Pins 2, 3 and center should be soldered with pin 1 located as indicated in Figure 1. If this is correct then the flex-switch assembly is good.

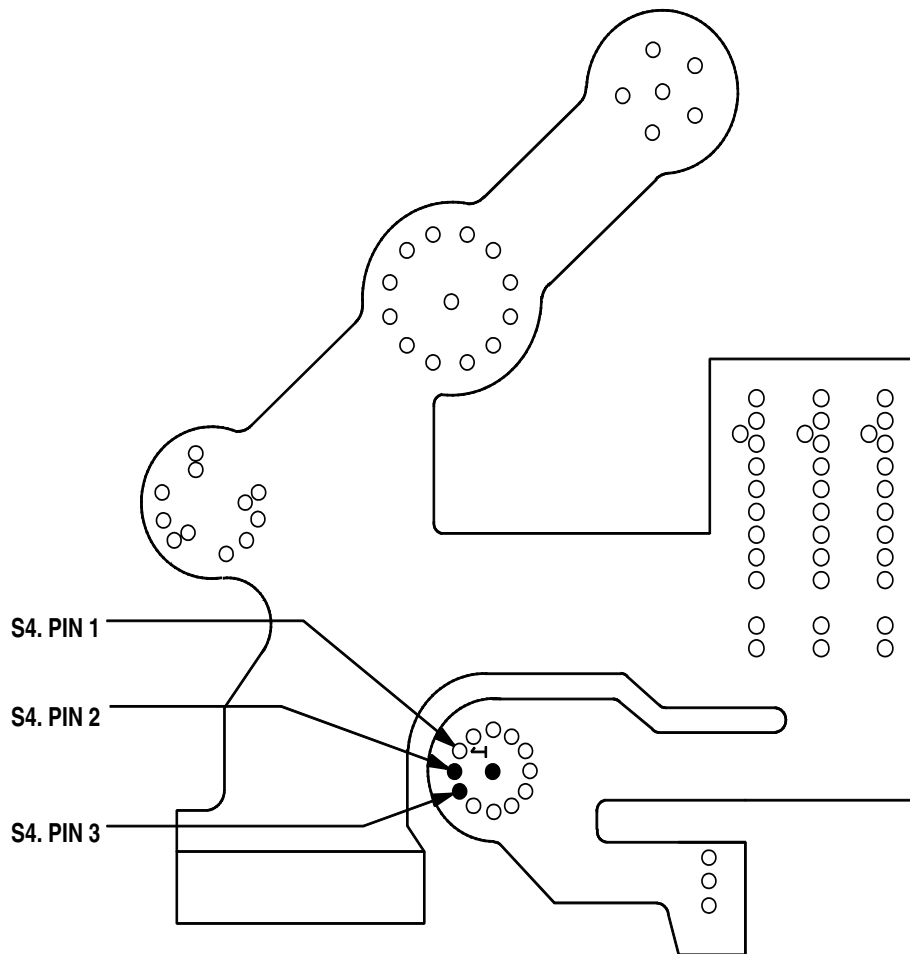


Figure 1. Rear View of Good Flexible-Switch Assembly (1A17A1W2)

- c. If pins 3 and 4 and center pin are incorrectly soldered (shifted) relative to pin 1, as shown in Figure 2, the flex-switch assembly is bad. Return to manufacturer in accordance with shipping instructions in paragraph 4.

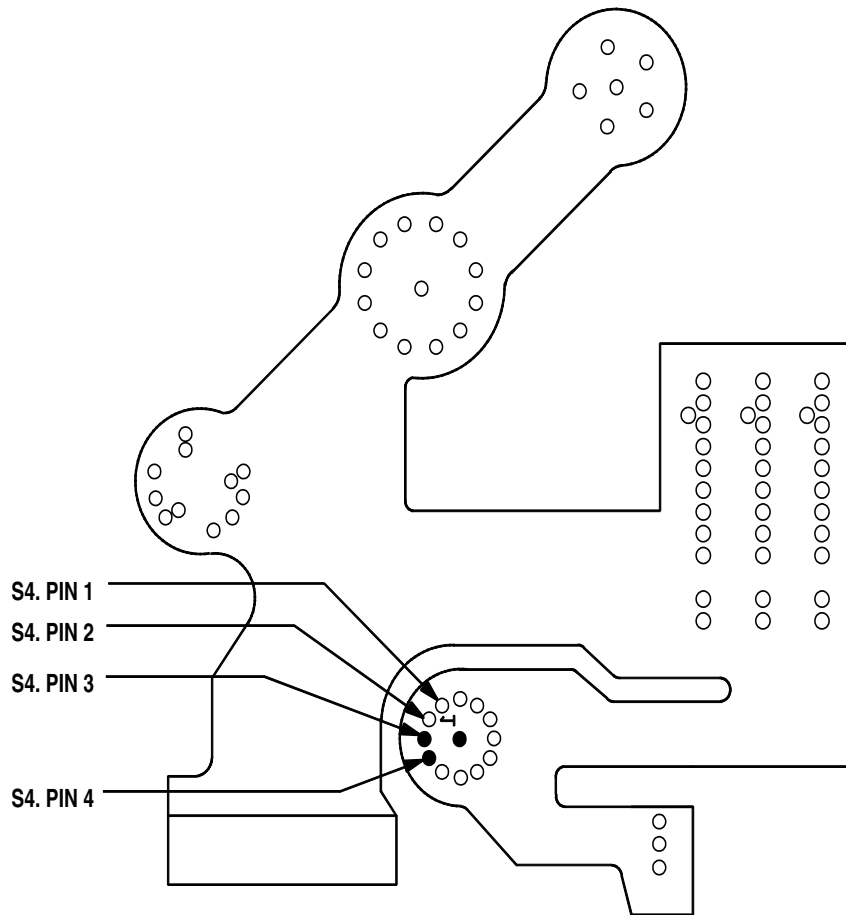


Figure 2. Rear View of Bad Switch Flex Assembly (1A17A1W2)

4. **SPECIAL SHIPPING INSTRUCTIONS:** Send defective assemblies along with a completed DD FORM 1149 to the address below. Include your complete return address to ensure that you receive the repaired item.

ITT A/CD
 Attn: DEPOT
 7310 Innovation Blvd
 Fort Wayne, IN 46818-1370

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (<i>reverse</i>) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM)	DATE 8/30/02
TO: (<i>Forward to proponent of publication or form</i>)(<i>Include ZIP Code</i>) Commander, U.S. Army C-E LCMC ATTN: AMSEL-LC-LEO-E-ED-P FORT MONMOUTH, NJ 07703-5000						FROM: (<i>Activity and location</i>)(<i>Include ZIP Code</i>) MSG, Jane Q. Doe 1234 Any Street Nowhere Town, AL 34565	
PART 1 - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 11-4940-355-12						DATE 16 Sep 2002	TITLE Organizational, Direct Support, And General Support Maintenance Manual for Machine Gun, .50 Caliber M3P and M3P Machine Gun Electrical Test Set Used On Avenger Air Defense Weapon System
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON	
1	WP0005 PG 3		2			Test or Corrective Action column should identify a different WP number.	
<i>* Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE MSG, Jane Q. Doe, SFC				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION 788-1234		SIGNATURE	

EXAMPLE

TO: (Forward direct to addressee listed in publication) Commander, U.S. Army C-E LCMC ATTN: AMSEL-LC-LEO-E-ED-P FORT MONMOUTH, NJ 07703-5000	FROM: (Activity and location) (Include ZIP Code) MSG, Jane Q. Doe 1234 Any Street Nowhere Town, AL 34565	DATE 8/30/02
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PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER			DATE	TITLE				
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III - REMARKS (Any general remarks, recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

EXAMPLE

TYPED NAME, GRADE OR TITLE MSG, Jane Q. Doe, SFC	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION 788-1234	SIGNATURE
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (<i>reverse</i>) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 310-1; the proponent agency is the US Army Adjutant General Center.							
TO: (<i>Forward to proponent of publication or form</i>) (<i>Include ZIP Code</i>)				FROM: (<i>Activity and location</i>) (<i>Include ZIP Code</i>)			
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER						DATE	TITLE
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO.*	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Exact wording of recommended change must be given)</i>	
<i>* Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TO: <i>(Forward to proponent of publication or form) (Include ZIP Code)</i>	FROM: <i>(Activity and location) (Include ZIP Code)</i>	DATE
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PART II- REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

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TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large, looping initial "J".

JOYCE E. MORROW

*Administrative Assistant to the
Secretary of the Army*

0628302

PETER J. SCHOOMAKER
*General, United States Army
Chief of Staff*

PIN: 083632-000