

This copy is a reprint which includes current  
pages from Change 1

\*TM 11-5820-257-35P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FIELD AND DEPOT MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOL LISTS,  
ANTENNA TUNING UNITS BC-939-A AND BC-939-B  
AND TUNER, RADIO FREQUENCY TN-339/GR

Headquarters, Department of the Army, Washington 25, D. C.  
12 June 1964

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SECTION I  
INTRODUCTION

1. Scope

a. This manual lists the quantities of repair parts for third, fourth, and fifth echelon field maintenance and is a basis for requisitioning authorized parts. It is also a guide for fifth echelon in establishing initial levels of spare parts.

b. Columns are as follows:

(1) *Source, maintenance, and recoverability code.* Source, maintenance, and recoverability codes indicate the technical service responsible for supply, the echelons where an item is stocked, echelons where an item is installed or repaired, and whether an item is repairable or salvageable. The source code column is divided into four parts.

(a) *Column A.* This column indicates the materiel code and designates the area of responsibility for supply. AR 310-1 defines the basic numbers used to identify the materiel code. If the part is Signal materiel responsibility, the column is left blank.

(b) *Column B.* Not used.

(c) *Column C.* This column indicates the lowest maintenance echelon authorized to install the part.

"O"—Organizational maintenance (1st and 2d echelon).

"F"—Field maintenance (3d echelon).

"H"—Field maintenance (4th echelon).

\*This manual supersedes TM 11-5820-257-35P. 28 April 1960.

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- "D"—Depot maintenance (5<sup>th</sup> echelon).
- (d) *Column D.* Not used.
- (2) *Federal stock number.* This column lists the 11-digit Federal stock number.
- (3) *Designation by model.* The dagger (†) indicates model in which the part is used.
- (4) *Description.* Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.
- (5) *Unit of issue.* The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning allowances, and issue purposes.
- (6) *Expendability.* Nonexpendable items are indicated by NX. Expendable items are not annotated.
- (7) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.
- (8) *Field (third echelon).* This column indicates quantities of repair parts authorized for initial stockage for use in the third echelon maintenance and in supply support to second echelon. The quantities are based on 100 equipments to be maintained for a 15-day period.
- (9) *Field (fourth echelon).* The numbers in this column indicate quantities of repair parts authorized for initial stockage for use in fourth echelon maintenance. The quantities are based on 100 equipments to be maintained for a 15-day period.
- (10) *Depot (fifth echelon).* The numbers in this column indicate quantities of repair parts authorized for depot maintenance and for initial stockage for maintenance, and for supply support to lower echelons. The entries are based on the quantity required for rebuild of 100 equipments.
- (11) *Illustration.* The "Item No." column lists the reference designations that appear on the part

in the equipment. These same designations are also used on any illustrations of the equipment. The numbers in the "Figure No." column refer to the illustrations where the part is shown in TM 11-5820-257-12P.

## **2. Parts for Maintenance**

When this equipment is used by signal service organizations organic to the theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including fourth echelon are authorized for stockage by the organization operating this equipment

## **3. Additional Repair Parts Authorization**

An asterisk (\*) in the column titled "15 Day Maintenance Allowance per 100 Equipments" indicate that an item is not authorized for stockage but if required, may be requisitioned for immediate use only.

## **4. Requisitioning Information**

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for initial stockage for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

Specific number of equipments supported

$$x \frac{\text{allowance factor}}{100} =$$

Number of parts authorized for initial stockage.

b. Fractional values obtained from above computation will be rounded to whole numbers as follows:

- (1) When the total number of parts authorized is less than 0.5, the quantity authorized will be zero.
- (2) When the total number of parts authorized is between 0.5 and 1.0, the quantity authorized will be one.

- (3) For all values above one, fractional values below 0.5 will revert to the next lower whole number and fractional value 0.5 and above will advance to the next higher whole number.
  - (4) A closing parenthesis ) after the allowance factor listed in the third echelon column indicates that the item is combat essential and that a minimum quantity of one is authorized for initial stockage even though the computed quantity is less than 0.5.
- c. The quantities determined in accordance with the above computation represent the initial stockage for a 15-day period.

## **5. References**

A maintenance allocation chart and basic issue items list are contained in TM 11-5820-257-12P.

## **6. Reporting of Equipment Manual Improvements**

The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this equipment manual is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed in triplicate and forwarded by the individual using the manual. The original and one copy will be forwarded direct to: Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MR-MP-P, Fort Monmouth, New Jersey, 07703. One information copy will be furnished to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc).

## SECTION II. FUNCTIONAL PARTS LIST

SOURCE CODE				FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION	
A	B	C	D										FIGURE NO.	ITEM NO.
						ANTENNA TUNING UNITS BC-939-A, B, TUNER, RADIO FREQUENCY TN-339/GR  NOTE: Model Column 1 refers to BC-939-A; Column 2 refers to BC-939-B; Column 3 refers to TN -339/GR								
				5820-223-4641	† † †	ANTENNA TUNING UNITS BC-939-A;B; 2 to 18 sec mc; Signal dwg SC-DL 34409	NX						1	
				5820-681-9667	†	TUNER, RADIO FREQUENCY TN-339/GR; 2 to 10 mc and 10 to 20 mc; 9-3/32" x 13-5/16" x 21-1/4" o/a Barker & Williamson dwg No. 32100	NX							
F		6625-649-0151	† † †	AMMETER: MIL type MR36W015RFAAR				1	(0.3)	0.1	5.0			
F		5930-538-6580	† † †	BAR, ACTUATOR, ELECTRICAL, SWITCH: Signal SC-B-34422				1	0.3	0.1	5.0	M4		
F		6146-222-0367	† † †	CABLE, RADIO FREQUENCY RG-34 A/U (Authorized allowances will be a minimum of or a multiple of ft.)				2	1. 4	0.5	50.0			
O		5910-574-8160	† † †	CAPACITOR, FIXED, VACUUM DI ELECTRIC: 1 sect Cab; 12 uuf tol; power rating 20, 000V peak RF; 2-1/4" dia x 6-1/2" lg; Jennings Mfg. VC-12				1	(0.5)	0.1	5.0	2	C22	
O		5910-160-0395	† † †	CAPACITOR, FIXED, VACUUM DI ELECTRIC: Cap 50 uuf; ± 2%; power rating; 20, 000v peak rf; 2-1/4" dia x 5" lg; Elmae type VC-50-20				1	(0.5)	0.1	5.0	C30		
F		5940-494-7747	† † †	CLIP, ELECTRICAL; capacitor mtg; Littlefuse No. 129001				4	0.8	0.2	20.0			
F		5340-532-3252	† † †	CLIP, RETAINING: Signal dwg SC-B-34493				2	0.5	0.1	10.0			
F		5950-251-1210	† † †	COIL, RADIO FREQUENCY: 5-1/4" " turns; No. 12AWG; Signal dwg SC-C-34517				1	(0.5)	0.1	5.0	L5		
F		5950-679-2379	†	COIL, RADIO FREQUENCY: 11.8 turns, No. 12AWG; Barker and Williamson dwg X-114-1				1	(0.5)	0.1	5.0	L5		
F		5950-238-8692	† † †	COIL, RADIO FREQUENCY: 24 turns; Signal Corp SC SC-C-3451				1	(0.5)	0.1	5.0	L44		

BC-939-A,B & TN-339/GR

SOURCE CODE				FEDERAL STOCK NUMBER	DESIGNATION BY MODEL			DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION									
A	B	C	D					FIGURE NO.	ITEM NO.															
F	5950-223-3843	† † †		BC-939-A,B, & TN-339/GN (continued)																				
				COIL, RADIO FREQUENCY: 61 turns, Signal Corp SC-D-34477												L6								
				COLLAR,SHAFT: Signal Corp dwg SC-B-34495												6.0								
				COLLAR, SHAFT: Signal Corp dwg SC-B-34416												3.0								
				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-32516												20.0								
				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-54486												10.0								
				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-34516												10.0								
				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-34435												80.0								
				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-34458												70.0								
				CONTACT ELECTRICAL: Signal Corp dwg SC-B-34459-1												20.0								
				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-34459-2												50.0								
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				CONTACT, ELECTRICAL: Signal Corp dwg SC-B-34475												10.0								
				COUNTER, RECIPROCATING: 3 figures, Signal Corp dwg SC-B-34444-1												5.0								
				COUNTER, RECIPROCATING: 3 figures, Bridge Electronic Co. p/n 103-A101												5.0								
				COUNTER, RECIPROCATING: 3 figures; Signal Corp dwg SC-B-34444-3												10.0								
				COUPLING SHAFT, RIGID: Cardwell p/n PL-5013												2.0								
				COUPLING, RIGID: Cardwell p/n PL5201												10.0								

BC-939-A,B & TN-339/GR

SOURCE CODE				FEDERAL STOCK NUMBER	DESIGNATION BY MODEL			DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION	
A	B	C	D												FIGURE NO.	ITEM NO.
								BC-939-A,B & TN-339/GR (continued)								
	F			5820-231-1867	†	†	†	COUPLING, SHAFT, FLEXING: Signal Corp dwg SC-D-344 11-0			2	0.8	0.2	20.0		
	F			5805-546-6546	†	†		COUPLING, SHAFT, FLEXIBLE: E:Fed. Tele Radio p/dwg B-202466-1			1	0.5	0.1	10.0		
	F			5985-321-9461	†			COVER, ANTENNA: Signal Corp dwg SM-D-280411			1	0.3	0.1	5.0		
	F			5820-681-9895	†	†		COVER, ANTENNA: Signal Corp dwg SM-D-284738			1	0.3	0.1	5.0		
	O			5820-161-0145	†	†	†	CRANK, HAND: Signal Corp dwg SC-B-34445 Grp 2			1	0.3	0.1	5.0		
	O			5820-128-9734	†	†	†	CRANK, HAND: Signal Corp dwg SC-B-34445 Grp 1			1	0.3	0.1	5.0		
	F			5930-532-3274	†	†	†	DETENT SWITCH: Barker & Williamson M400			1	0.7	0.1	10.0		
	O			5985-498-0395	†	†	†	HANDLE: Signal Corp dwg SC-B-34446			2	0.5	0.1	20.0		
	F			5820-536-3311	†	†	†	HOLDER, CONTACT: Signal Corp dwg SC-B-34412			1	0.3	0.1	5.0		
	F			5820-701-9124	†	†	†	INSULATOR ROD, ELECTRICAL: Glass; Signal Corp dwg SC-B-34423			1	0.3	0.1	5.0		
	F			5970-284-8424	†	†	†	INSULATOR, BOWL: Mil type NS5W4202			3	0.7	0.1	15.0		
	F			5970-284-8801	†	†	†	INSULATOR, FEED THRU: Mil type NS5W4102			3	0.7	0.1	15.0		
	F			5970-405-8310	†	†	†	INSULATOR, PLATE: Signal Corp dwg SC-C-34462			2	0.5	0.1	10.0		
	F			5970-405-8308	†	†	†	INSULATOR, PLATE: Signal Corp dwg SC-B-34504			4	0.8	0.2	20.0		
	H			5970-284-4309	†	†		INSULATOR, STAND OFF: Mil type NS5AW1208			2	-	*	50		
	H			5970-117-5320	†	†	†	INSULATOR, STAND OFF: Mil type NS4AWC416			1	-	*	5.0		
	F			5970-117-5245	†	†	†	INSULATOR, STAND OFF: Mil type NS4W120A			2	0.5	0.1	10.0		
	O			5335-160-5887	†	†	†	KNOB: accom 1/4" sm; pointer attached; Kurz-Kasch p/n S309 64 BB 10269			1	0.3	0.1	5.0		

BC-939-A, B & TN-339/GR

SOURCE CODE				FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	3RD FIELD	4TH FIELD	5TH DEPOT	ILLUSTRATION	
													FIGURE NO.	ITEM NO.
A	B	C	D	5355-161-0697	† † †	BC-939-A, B, & TN-339/GR (continued)			1	0.3	0.1	5.0		
	O			5310-569-3576	† † †	KNOB: accom 1/4" shaft; w/o marking; Kurz-Kasch p/n S-309-64BB			4	-	-	40.0		
	D			5310-208-2727	† †	NUT, SELF-LOCKING, HEXAGONAL: 1-4/28 class 2 fit; Signal Corp dwg SC-B-344998			10	-	-	10		
	D			5940-283-8471	† †	NUT, SELF-LOCKING, HEXAGON: ANA type No 365-440A			2	0.5	0.1	2.0		
	F			5940-242-0948	† † †	POST BINDING: TM-146			2	0.5	0.1	2.0		
	F			5820-405-1438	† † †	POST BINDING: screw type; Eby No. 97			1	0.8	0.2	4.2		
	D			5820-128-0769	† † †	SHAFT: Signal Corp dwg SC-B-34494-1			1	0.8	0.2	4.0		
	F			5820-404-3481	† † †	SHAFT: Signal corp dwg SC-B-34494-2			1	0.8	0.2	4.2		
	F			5920-536-5310	† † †	SLEEVE, SPACE: Signal Corp dwg SC-B-34417			1	0.3	0.1	3.0		
	F			5930-407-2203	†	SPRING-POSITIONING: U-shaped end x 0.238" w; Signal Corp dwg SC-B-34518			2	0.8	0.2	10.0		
	F			5930-548-9449	† †	SWITCH SECTION, ROTARY: 3 throws; Hallicrafter p/dwg 1D305			1	0.7	0.1	10.0	SW9.1	
	F			5930-392-7527	† † †	SWITCH SECTION, ROTARY: 2 poles; Barker and Williamson p/dwg X-115			1	0.7	0.1	10.0		
						SWITCH, SECTION, ROTARY: Barker and Williamson p/dwg A-316			1	0.7	0.1	10.0		

BC-939-A, B & TN-339/GR

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*USAR:* None.

For explanation of abbreviations used, see AR 320-50.

EARLE G. WHEELER

*General, United States Army,  
Chief of Staff*

**TM 11-5820-257-35P**  
**C1**

CHANGE

No. 1

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 24 March 1983

**FIELD AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS**  
**ANTENNA TUNING UNITS BC-939-A AND BC-939-B (5820-00-223-4641)**  
**AND TUNER, RADIO FREQUENCY TN-339/GR (5820-00-681-9667)**

**TM 11-5820-257-35P, 12 June 1964, is changed as follows:**

**Page 7, Section III is added after Section II.**

## SECTION III

CROSS REFERENCE INDEX. The Cross-Reference Index is a cross-reference listing of part number to National Stock Number.

a. Use of Cross-Reference Index. To order a part listed in the Cross-Reference Index, note part number and then cross-reference that part number to the National Stock Number in the cross-reference index. Then order through normal ordering channels.

b. Ordering Part Numbers Without National Stock Number. If the part number does not have a National Stock Number, then order the part through normal ordering channels using the part number and the FSCM.

CROSS REFERENCE INDEX FORMAT

Parts With AN FSN

FSN	NEW NSN	FSCM	PART NUMBER
59701175245	NONE	81349	NS4W 120A
59701175320	NONE	81349	NS4AWC416
58201280769	5820001280769	80063	SC-B-34494-2
58201289734	5820001289734	80063	SC-B-3445 GRP 1
59101600395	5910001600395	06980	VC 50-20
53351605887	5335001605887	75376	S30964BB10269
30101610178	3010001610178	71313	ENF
58201610458	NONE	80063	SC-B-34445 GRP 2
53551610697	NONE	75376	S-309-64BB
53102082727	NONE	88044	365-440A
59502209250	5950002209250	80063	SC-B-32516
61452220367	NONE	80058	RG-34A/U
59502233483	NONE	80063	SC-D-34477
58202234641	5820002234641	80058	BC-939-A,B
58202311867	5820002311867	80063	SC-D-34411-0
59502388692	5950002388692	80063	SC-C-3451
59402420948	NONE	72825	97
66802426471	66802426471	80063	SC-B-34444-1
30402428906	3040002428906	05690	M8
66802429256	6680002429256	80063	SC-B-34444-3
30102440265	3010002440265	71313	PL-5013
59502511210	5950002511210	80063	SC-C-34517
30402544893	3040002544893	05690	M 121
59402838471	5940002838471	72825	7371
59702844309	NONE	31349	NS5AW1208
59702848424	NONE	81349	NS5W4202
59702848801	NONE	81349	N S5W4102
59853219461	NONE	80063	SM-D-280411
58203785277	NONE	80063	SC-B-54486
59303927527	NONE	05690	X 116
58204043481	5820004043481	80063	SC-B-34417
58204051438	5820004051438	80063	SC-B-34494-1
59704058310	5970004058310	80063	SC-C-34462
59704058308	NONE	80063	SC-B-34504
59304072203	NONE	26916	1D305
59404947747	NONE	75915	129001
59354980395	5985004980395	80063	SC-B-34446
53405323252	NONE	80063	SC-B-34493
59305323274	5930005323274	05690	M400
59205365310	NONE	80063	SC-B-34518
59995363311	5999005363311	80063	SC-B-34412
59305386580	5930005386580	80063	SC-B-34422
59995390430	5999005390430	80063	SC-B-34471
59995390428	5999005390428	80063	SC-B-34458
58205390429	5820005390429	80063	SC-B-34459-2

CROSS REFERENCE INDEX FORMAT

Parts With AN FSN

FSN	NEW NSN	FSCM	PART NUMBER
68805421204	6680005421204	05690	103-A101
58055466546	5805005466548	80100	B-202466-1
59305489449	5930005489449	05690	X-115
58205621084	NONE	80063	SC-B-34475
58205621086	NONE	80063	SC-B-34516
59995691108	5999005691108	80063	SC-B-34435
58205691118	5820005691118	80063	SC-B-34459-1
53105693576	NONE	80063	SC-B-344998
59105748160	NONE	74963	VC-12
66256490151	NONE	81349	MR36W015RFAAR
595006792379	595000672379	05690	X114-1
58206819667	5820006819667	80058	TN-339/GR
58206819895	5820006819895	80063	SM-D-284738
58207019124	5820007019124	80063	SC-B-34423

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