

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL
SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL
TOOLS LISTS (INCLUDING DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS)
TRANSFORMER, VARIABLE, POWER
CN-16/U, CN-16A/U, AND CN-16B/U
FSN 5950-235-2086

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SECTION I INTRODUCTION

1-1. Scope

This manual lists basic issue items. items troop installed or authorized, repair parts, and special tools required by the crew/operator for operation and required for the performance of organizational, direct support, general support, and depot maintenance of the CN-16/U, CN-16A/U, and CN-16B/U. The PCCN for the CH-16/U, CN-16A/U, and CN-16B/U is GTEAAD for all models.

1-2. General

This basic issue items. items troop installed or authorized, repair parts, and special tools list is divided into the following sections—

a. *Basic Issue Items List-Section II.* Not applicable.

b. *Items Troop Installed or Authorizd List—Section III.* Not applicable.

c. *Prescribed Load Allowance (PLA)—Section IV.* Not applicable.

d. *Repair Parts List—Section V.* A list of repair parts authorized for the performance of maintenance at the organizational level. This repair parts list is arranged in alphabetical order.

e. *Special Tools, Test and Support Equipment — Section VI.* Not applicable.

f. *Repair Parts List—Section VII.* A list of repair parts authorized for the performance of maintenance at the direct support general support and depot level.

g. *Special Tools, Test and Support Equipment-Section VIII.* Not applicable.

h. *Index—Federal Stock Number and Reference Number Cross-Reference to Figure and Item Number—Section IX.* A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings. followed by a list, in alphameric sequence. of all reference numbers appearing in the listings. Federal stock number and reference numbers are cross-referenced to each illustration figure and item number or reference designation appearance.

1-3. Explanation of Columns

The following provides an explanation of columns found in the tabular list.

a. *Source. Maintenance and Recoverability Codes (SMR).*

(1) *Source code.* Indicates the source for the listed items. Source codes are —

<i>Code</i>	<i>Explanation</i>
P—	Repair parts, special tools and test equip-

<i>Code</i>	<i>Explanation</i>
	ment supplied from the GSA/DSA or Army supply system and authorized for use at indicated maintenance categories.
P2—	Repair parts, special tools and test equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
P9—	Assigned to items which are NSA design controlled: unique repair parts. special tools, test, measuring, and diagnostic equipment which are stocked and supplied by the Army COMSEC Logistic System and which are not subject to the provisions of AR 380-41.
P10—	Assigned to items which are NSA design controlled: special tools, test, measuring, and diagnostic equipment for COMSEC support which are accountable under the provisions of AR 380-41 and which are stocked and supplied by the Army COMSEC Logistic System.
M—	Repair parts, special tools and test equipment which are not procured or stocked as such in the supply system but are to be manufactured at indicated maintenance levels.
A—	Assemblies which are not procured or stocked as such but are made up of two or more units. Such component units carry individual stock numbers and descriptions. are procured and stocked separately, and can be assembled to form the required assembly at indicated maintenance categories.
X—	Parts and assemblies that are not procured or stocked because the failure rate is normally below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.
X1—	Repair parts which are not procured or stocked. The requirement for such items will be filled by the next higher assembly or component.
X2—	Repair parts, special tools and test equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair

<i>Code</i>	<i>Explanation</i>
	parts will attempt to obtain the parts through cannibalization or salvage. The item may be requisitioned, with exception data, from the end item manager for immediate use.
G—	Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DS and GS level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Indicates the lowest category of maintenance authorized to install the listed item. Capabilities of higher maintenance categories are considered equal or better. Maintenance codes are —

<i>Code</i>	<i>Explanation</i>
C	Crew/operator
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

(3) *Recoverability code.* Indicates whether un-serviceable items should be returned for recovery or salvage. Items not coded are nonrecoverable, Recoverability codes are —

<i>Code</i>	<i>Explanation</i>
R—	Repair parts (assemblies and components), special tools and test equipment which are considered economically repairable at direct and general support maintenance levels. When the item is no longer economically repairable, it is normally disposed of at the GS level. When supply considerations dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-1. When so listed, they will be replaced by supply on an exchange basis.
S—	Repair parts, special tools and test equipment, and assemblies which are economically repairable at DS and GS activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically repairable, they will be evacuated to a depot

<i>Code</i>	<i>Explanation</i>
	for evaluation and analysis before final disposition.
T—	High dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.
U—	Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value, or reusable casings or castings.

b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description. Indicates the Federal item name and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government agency, etc., and is identified in SB 708-42.

d. Unit of Measure (U/M). Indicates the standard or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation. e.g., ea, in, pr, etc., and is the basis used to indicate quantities and allowances in subsequent columns. When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

e. Quantity Furnished with Equipment (Basic Issue Items Only). Not applicable.

f. Quantity Authorized (Items Troop Installed or Authorized Only). Not applicable.

g. Quantity Incorporated in Units. This column indicates the quantity of the item used in the equipment.

h. 15-Day Organizational Maintenance Allowances.

(1) The repair parts indicated by an asterisk in the allowance column represent those authorized for use at the organizational category, and will be requisitioned on an "as required" basis, until stockage is based on demand in accordance with AR 710-2.

(2) Major Army commanders are authorized to approve reduction in the range of support items authorized for use in units within their commands. Recommendations for increase in range of items authorized for use will be forwarded to the Commanding General, US Army Electronics Command, ATTN: AMSEL-MA-CRA, Fort Monmouth, N. J., 07703.

(3) Allowance quantities are indicated in the special tools list section for special tools, TMDE, and other support equipment.

i. 30-Day DS/GS Maintenance Allowances.

NOTE

Allowances in GS column are for GS maintenance.

(1) The repair parts indicated by asterisk entries in separate allowance columns for DS and GS represent those authorized for use at that category of maintenance to be requisitioned on an "as required" basis, until stockage is based on demand in accordance with AR 710-2.

(2) Allowance quantities are indicated in the special tool lists section for special tools, TMDE, and other support equipment.

j. 1-Year Allowances Per 100 Equipments/Contingency Planning Purposes. Column intentionally left blank.

k. Depot Maintenance Allowance Per 100 Equipments. This column indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments.

l. Illustration. Not applicable.

1-4. Special Information

Usable on codes are included in column 3. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are—

<i>Code</i>	<i>Used on</i>
AD8	CN-16/U
AD9	CN-16A/U
AEA	CN-16B/U

1-5. Location of Repair Parts

a. This manual contains one cross reference index (sec IX) to be used to locate a repair part when either the Federal stock number or reference number (manufacturer's part number) is known. The

first column in the index is prepared in numerical or alphanumeric sequence in ascending order. The reference numbers (manufacturer's part numbers) are listed immediately following the last listed Federal stock number in the index of Federal stock Numbers.

b. When the Federal stock number or reference number is known, follow the procedures given in (1) and (2) below.

(1) Refer to the index of Federal stock numbers (sec IX), and locate the Federal stock number or reference number. The FSN and reference number are cross-referenced to the applicable figure and item number or reference designation.

(2) Refer to the repair parts list (sec V and VII) and locate the figure number (col 7a—20P, 10a—34P) and item number or reference designation (col 7b—20P, 10b—34P) as noted in the FSN index.

c. When the figure and item number or reference designation are known, scrutinize columns 7a and 7b—20P and 10a and 10b—35P, of the repair parts list (sec V and VII) until the item is located.

d. When the FSN, reference number, figure number, and item number are not known, scrutinize column 3 of the repair parts list (sec V and VII), which is arranged in alphabetical order.

1-6. Abbreviations

Not applicable.

1-7. Reporting of Equipment Manual Improvements

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2026 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN AMSEL-MA-CRA, Fort Monmouth, N. J., 07703.

1-8. Items Comprising An Operable Equipment

FSN 5950-235-2086 Transformer, Variable, Power
CN-16/U, CN-16A/U, and CN-16B/U (1 ea)

(Next printed page is 6.)

SECTION V			TM11-5950-205-14P							(7)	
(1)	(2)	(3)	(4)	(5)	(6)				(7)		
SMR	FEDERAL	DESCRIPTION	UNIT	QTY	15-DAY ORGANIZATIONAL				ILLUSTRATION		
CODE	STOCK	REFERENCE NUMBER & MFR CODE	OF	INC	MAINTENANCE ALW				(A)	(B)	
	NUMBER		MEAS	IN	(A)	(B)	(C)	(D)	FIGURE	ITEM	
			USABLE ON CODE	UNIT	1-5	6-20	21-50	51-100	NO	NO	
P--O--	5950-614-8619	ARN NO-REF-DESIG BRASS NICKEL FIN FLAT FORMED SHAPE STAN ELEC PROD A4925 (83008)	EA	1	*	*	*	*			
P--O--	5977-583-3888	BRUSH, ELECTRICAL CONTACT NO-REF-DESIG II RECT GRAPHITE BRUSH 69902 (83008)	EA	1	*	*	*	*			
P--O--	5920-557-5033	FUSE, CARTRIDGE NO-REF-DESIG 8 AMP 250V NON-INDICATING CERAMIC OR PLASTIC BODY F03G8R00A (81349)	EA	1	*	*	*	*			
P--O--	6240-155-7856	LAMP, INCANDESCENT NO-REF-DESIG 6V MIN SCREW BASE 50 (24446)	EA	1	*	*	*	*			

SECTION VII			TM11-5950-205-14P									(10)			
(1)	(2)	(3)	(4)	(5)	(6)			(7)			(8)	(9)	(10)		
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	USABLE ON CODE	UNIT OF MEAS	QTY	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGNCY	DEPOT MAINT ALW PER 100 EQUIP	(A)	(B)
		REFERENCE NUMBER & MFR CODE			INC IN UNIT	(A)	(B)	(C)	(A)	(B)	(C)			FIGURE NO	ITEM NO
P--O--	5950-414-8618	ARM NO-REF-DESIG BRASS NICKEL FIN FLAT FORMED SHAPE STAN ELEC PROD A4925 (83008)		EA	1	*	*	*	*	*	*				
P--O--	5977-583-3886	BRUSH, ELECTRICAL CONTACT NO-REF-DESIG 11 RECT GRAPHITE BRUSH A9902 (83008)		EA	1	*	*	*	*	*	*				10
P--F--	5975-273-0788	BUSHING STRAIN RELIEF CABLE NO-REF-DESIG NYLON ACCOM 0-300 IN. TO 0-355 CABLE 3R6P1 (80063)		EA	1	*	*	*	*	*	*				3
P--F--	5995-583-3893	CABLE ASSEMBLY POWER ELECTRICAL NO-REF-DESIG 2 NO 18 AWG CONNECTOR MOLDED INTEGREG L N-CABLE 367 18-25J (83008)		EA	1	*	*	*	*	*	*				5
P--F--	5950-577-4142	DIAL SCALE NO-REF-DESIG 0 TO 130 CN RANGE MARKED ADJUST-A-VOLT (INDICATES OUTPUT VOLTAGE) 84856 (83008)		EA	1	*	*	*	*	*	*				3
P--F--	5920-285-0755	FUSEHOLDER NO-REF-DESIG EXTRACTOR PAST TYPE ACCOM 1 CARTRIDGE TYPE FUSE SC81365E2 (80063)		EA	1	*	*	*	*	*	*				3
P--O--	5920-557-5033	FUSE, CARTRIDGE NO-REF-DESIG 8 AMP 250V, NON-INDICATING CERAMIC OR PLASTIC BODY F03G8800A (81349)		EA	1	*	*	*	*	*	*				50
P--F--	5355-584-0530	KNOB NO-REF-DESIG SETSCREW TYPE RO W-INTEGRALLY MOLDED SKIRT SINGLE LINE MARKING W-INTEGRAL POINTER C4927 (83008)		EA	1	*	*	*	*	*	*				3
P--F--	6250-433-4737	LAMPHOLDER NO-REF-DESIG A2474 (83008)		EA	1	*	*	*	*	*	*				5
P--O--	6240-155-7856	LAMP, INCANDESCENT NO-REF-DESIG 6V MIN SCREW BASE 50 (24446)		EA	1	*	*	*	*	*	*				50
P--F--	6210-961-4309	LENS INDICATOR LIGHT NO-REF-DESIG RED LENS 24SP (72765)		EA	1	*	*	*	*	*	*				5
P--F--	5340-598-2149	RING, RETAINING NO-REF-DESIG (RETAINS INSULATOR) S100-62 (79136)		EA	1	*	*	*	*	*	*				2
P--F--	5930-108-7097	SWITCH, TOGGLE NO-REF-DESIG DPST 81024K (04009)		EA	1	*	*	*	*	*	*				5
P--F--	5950-581-1968	TERMINAL BOARD NO-REF-DESIG PHENOLIC-BARRIERS MARKED 1 THRU 7 C4922 (83008)		EA	1	*	*	*	*	*	*				3

INDEX - FEDERAL STOCK NUMBER AND REFERENCE NUMBER
CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
5340-598-2149			5950-614-8618		
5355-584-0530			5975-273-0788		
5920-285-0755			5977-583-3886		
5920-557-5033			5995-583-3893		
5930-108-7097			5210-961-4309		
5950-577-4142			6240-155-7856		
5950-581-1968			6250-633-6737		

REFERENCE NO	MFG CODE	FIG NO	ITEM NO	REFERENCE NO	MFG CODE	FIG NO	ITEM NO
A4925	83008			SCB136552	80063		
A8474	83008			SR6P1	80063		
A9902	83008			24SP	72765		
B4856	83008			367 18 2SJ	83008		
C4922	83008			50	24446		
C4927	83008			5100-62	79136		
F03GBR006	81349			81024K	04009		

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NG: None

USAR: None

For explanation of abbreviations used, see AR 310-50

