

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)
DYNAMIC LOUDSPEAKER LS-166/U
FSN 5965-243-6420

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*This manual supersedes TM 11-595-222-15P, 7 July 1964.

SECTION I INTRODUCTION

1-1. Scope

This manual lists basic issue items, items troop in-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 LS-166/U. The PCCN for the LS-166/U is GCMAAX 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 Authorized 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 listing. 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 manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are-

Code	Explanation
PA	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF--	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time.
KD	An item of depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or direct support or general support levels of maintenance.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO-	Item to be manufactured or fabricated at organizational level.
MF	Item to be manufactured or fabricated at direct support maintenance level.
MH	Item to be manufactured or fabricated at general support maintenance level.
MD--	Item to be manufactured or fabricated at depot maintenance level.
AO	Item to be assembled at organizational level.
AF --	Item to be assembled at direct support maintenance level.
AH	Item to be assembled at general support maintenance level.

Code	Explanation
AD	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.
XC	Installation drawing, diagram instruction sheet, field service drawing, that is identified by manufacturers' part number.
XD	Support items can be requisitioned with justification.

NOTE

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

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code Format as follows:

(a) *Use (third position).* The maintenance code entered in the third position indicates the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position indicates one of the following levels of maintenance.

Code	Application/Explanation
O--	Support item is removed, replaced, used at the organizational level of maintenance.

NOTE

A code "C" may be used in this position to denote crew or operator maintenance performed within or ganizational maintenance.

F--	Support item is removed, replaced, used at the direct support maintenance level.
H--	Support item is removed, replaced, used at the general support maintenance.
D--	Support items that are removed: replaced, used at depot only.

(b) *Repair (fourth position).* The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). When a maintenance code is not used a dash (-) sign is entered. For multi service equipment /systems or when a code is entered, this position will contain one of the following maintenance codes as assigned by the service(s) that require the code-

Code	Application/Explanation
O--	The lowest maintenance level capable of complete repair of the support item is the or ganizational level.
F--	The lowest maintenance level capable of complete repair of the support item is direct support.
H--	The lowest maintenance level capable of complete repair of the support item is general support.
D--	The lowest maintenance level capable of complete repair of the support item is the depot level.
L--	Repair restricted to designated Specialized Repair Activity,.
Z --	Non-repairable. No repair is authorized.
B--	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc , at the user level.
No	parts or special tools are procured for the maintenance of this item.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the uniform SMR Code Format as follows--

Code	Explanation
Z --	Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in the first digit of the maintenance code.
O--	Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
F --	Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
H--	Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
D--	Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L --	Repairable item. Repair, condemnation, and disposal not authorized below depot/Specialized Repair Activity level.
A--	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material).
	<i>b. Federal Stock Number.</i> Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
	<i>c. Description.</i> 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 Unit*. 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 stock-age is based on demand in accordance with AR 710-2.

(2) Major Army commanders Pre authorize 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 Commander, US Army Electronics Command, ATTN: AMSEL-MA-CW, 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 only.

(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.

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-

Code	Used on
AEH	LS-166/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 O1b--35P, of the repair parts list (see 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 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-CW, Fort Monmouth, N.J., 07703.

SECTION V

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE		(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15 DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIGURE NO.	ITEM NO.
PADZZ	5306-753-4294	BOLT MACHINE NO-RFc-0FSIG SQ HD NO. 3-8-24		EA	1	*	*	*	*		
		2-5-16 IN LG SC553361 (803631)									
PADZZ	5965-373-5475	BRACKET NO-REF-DESIG T SHAPED 5CB5680 (80063).....		EA	1	*	*	*			
PADZZ	5355-552-0451	KNOB NO-REF-DESIG BAR TYPE		EA	1	*	*	*	*		
		SC88088 (800631)									
PADZZ	5313-546-6862	NUT PLAIN ROUND		EA	*	*	*	*	*		
		SC553360 (803631)									
PADZZ	5310-595-9676	NUT PLAIN WING NO-REF-DESIG		EA	1	*	*	*	*		
		PARKER-KALON SIZE D									
		S19-21476 (457221)									
PADZZ	5335-889-3056	SCREW NO-REF-DESIG.....		EA	4	*	*	*	*		
		FES92 (81348) (813481)									

SECTION VII

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE		(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15 DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIGURE NO.	ITEM NO.
PAOZZ	5306-753-4294	BOLT MACHINE NO-REF-DESIG SQ HO NO. 3-..... 8-24 2-5-16 IN LG SC853361 189063)		EA	1	*	*	*	*	3	
PAOZZ	5965-378-5475	BRACKET NJ-REF-DESIG T SHAPED SCB5680 1800631		EA	1	*	*	*	*	2	
PAFZZ	5975-351-6114	BUSHING STRAIN RELIEF NO-RFF-DESIG PROTECTS CORD IN CABINET ENTRANCE SC05337-1 (00063)		EA	1	*	*	*	*	3	
PAFZZ	5965-092-1475	CABINET LOUDSPEAKER NO-REF-DESIG SC053358 (800631		EA	1	*	*	*	*	2	
PAFZZ	6145-220-9395	CABLE SPECIAL PURPOSE ELECTRICAL NO- REF-DESIG 3 COND- TYPE WT-15A/U (AUTHORIZED QUANTITY WILL BE NINIMUM OR A MULTIPLE OF 6 FT IN USE.) SCD25160 (80063)		FT	6	*	*	*	*	1	
PAFZZ	5935-283-2950	CONNECTOR PLUG IJ-77U NO-RE-DESIG SCDL6E417 (90063)		EA	1	*	*	*	*	10	
PAFZZ	5965-702-7527	COVER LOUDSPEAKER NO-REF-DESIG..... SCC53364-1 (80063)		EA	1	*	*	*	*	2	
PAFZZ	5330-292-2156	GASKET NO-REF-DESIG..... SCC53365 (80063)		EA	1	*	*	*	*	5	
PAFZZ	5330-351-4192	GASKET NO-REF-DESIG..... SCC53370 (8'063)		EA	1	*	*	*	*	5	
PADZZ	5355-552-0451	KNOB NO-REF-DESIG BAR TYPE..... SCB088 (80063)		EA	1	*		*	*	3	
PAFHD	5965-892-3665	LOUDSPEAKER PERMANENT MAGNET LS-445/U. NO-REF-DESIG SCDL83161 (80063)		EA	1	*	*	*	*	5	
PAFZZ	5935-283-2950	MAINTENANCE KIT ELECTRONIC EQUIPMENT NO..... REF-OESIG FOR REPAIR OF CONNECTOR. PLUG U-77/U CONTACT ASSY (10) RUSHING (1) GASKET (1), SCREW (3), SEAL (I), WASHER (3) SCDL68417 (80063)		EA	1	*	*	*	*	10	
PAOZZ	5310-546-6862	NUT PLAIN ROUND NO-REF-DESIG SCB53360 (80063)		EA	1	*	*	*	*	3	
PAOZZ 24	53103-595-9676	NUT PLAIN WING NO-REF-DESIG NO. 3-8..... PARKER-KALON SIZE 0. S19-21476 (457221		EA	1	*	*	*	*	3	
PAOZZ	5305-889-3056	SCREW NO-REF-ESIG FFS92 (81348)		EA	4	*	*	*	*	5	
PAFZZ	5930-399-7765	SWITCH ROTARY NO-RE-DE SIG..... SCC53387 (800631		EA	1	*	*	*	*	5	
PAFZZ	5959-645-6382	TRANSFORMER AUOIO FREQUENCY NO-REF-DESIG..... SCC53386 (80063)		EA	1	*	*	*	*	3	

SECTION IX

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.
5305-889-3056			5935-283-2950		
5306-753-4294			9959-645-6382		
5310-546-6862			5965-092-1475		
5310-595-5676			5965-378-5475		
5330-292-2156			5965-702-7527		
5330-351-4192			5965-892-3665		
5355-552-0451			5975-351-6114		
5930-399-7765			6145-220-9395		

REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.	REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.
FFS92	81348			SCC53386	80063		
SCR53360	80063			SCC53387	80063		
SCR53361	80063			SCDL68417	80063		
SCB5680	80063			SCDL83161	80063		
SCB8088	80063			SCD25160	80063		
SCC53364-1	80063			SCD53358	80063		
SCC53365	80063			SCD5337-1	80063		
SCC53370	80063			S19-21476	45722		

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Fort Gordon (10)
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WSMR (2)
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LBAD (14)
SAAD (30)
TOAD (14)
ATAD (10)
LEAD (7)
USA Dep(2)
Sig Sec USA Dep (2)
Sig Dep (5)
Sig FLDMS (1)
USAERDAA (1)
USAERDAW (1)
MAAG (1)
USARMIS (1)
WRAMC (1)
Units org under fol TOE:
(1 copy each unit)
11-158
29-134
29-136

G: None

USAR: None

For explanation of abbreviations used. see AR 310-50.

**U.S. G.P.O. :1993-342-024:60137

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IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

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SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

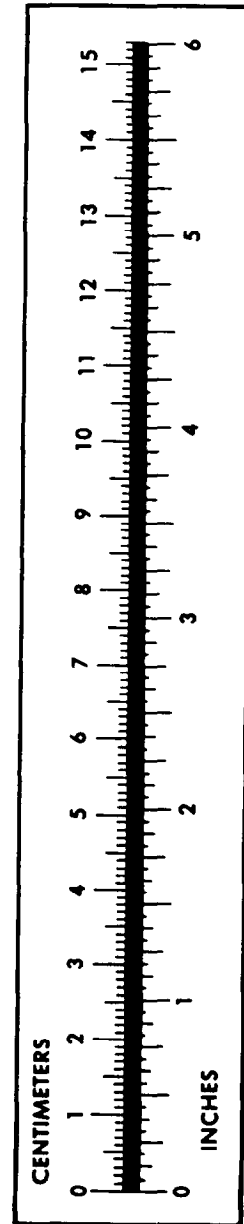
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



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