

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOLS LISTS  
FREQUENCY METER TS-186D/UP  
FSN 6625430-7203

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\*This manual supersedes TM 11-6625-307-12P, 15 June 1959, including all changes.

# SECTION I INTRODUCTION

## 1-1. Scope

This manual lists repair parts and special tools required for the performance of organizational maintenance of the TS-186D/UP. The PCCN for the TS-186D/UP is GTEAFM for all models.

## 1-2. General

This repair parts and special tools list is divided into the following sections:

- a. *Prescribed Load Allowance (PLA) - Section II.* Not applicable.
- b. *Repair Parts List - Section III.* A list of repair parts authorized for the performance of maintenance at the organizational level. This repair parts list is arranged in alphabetical order.
- c. *Special Tools, Test and Support Equipment -Section IV.* Not applicable.
- d. *Index - Federal Stock Number and Reference Number Cross-Reference to Figure and Item Number - Section V.* A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings, followed by a list, in alphanumeric 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 in the tabular lists:

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:

<i>Code</i>	<i>Explanation</i>
PA -	Item procured and stocked for anticipated or known usage.
P B -	Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.
P C -	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 outfitting. Not subject to automatic replenishment.

<i>Code</i>	<i>Explanation</i>
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.
P G -	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.
A F -	Item to be assembled at direct support maintenance level.
AH -	Item to be assembled at general support maintenance level.
AD -	Item to be assembled at depot maintenance level.
X A -	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
X B -	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 AR 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.

<i>Code</i>	<i>Application/Explanation</i>
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 organizational 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 actions). When a maintenance code is not used a dash (-) sign is entered. For multiservice 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:

<i>Code</i>	<i>Application/Explanation</i>
O -	The lowest maintenance level capable of complete repair of the support item is the organizational 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.

<i>Code</i>	<i>Application/Explanation</i>
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 -	Nonrepairable. 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:

<i>Code</i>	<i>Explanation</i>
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).

b. *Federal Stock Number.* Indicates the Federal stock number assigned to the item.

NOTE

For requisitioning purposes, the Federal stock number must be converted to the National stock number by adding "-00-" after the Federal stock classification (FSC), code (first four digits). For example, FSN 6625-553-0142 converts to NSN 6625-00-553-0142.

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 Incorporated in Unit.* This column indicates the quantity of the item used in the equipment. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF".

f. *15-Day Organizational Maintenance Allowance.*

(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 Commander, US Army Electronics Command, ATTN: AMSEL-MA-DM, Fort Monmouth, NJ., 07703. Any changes approved will be reflected in a revision to the RPSTL.

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

g. *Illustration.* This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown in TM 11-2691-15.

(2) *Item number.* Indicates the item number or reference designation used to reference the item in the illustration.

#### 1-4. Special Information

a. 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>
BBE	TS-186D/UP

(Next printed page is 6)

b. The basis of issue for authorized special tools, test and support equipment is the number of end items of equipment supported and the number of maintenance personnel allocated to perform the required maintenance operations.

c. The following publication pertains to the TS-186D/UP and its components  
TM 11-2691-15      Frequency Meter TS-186D/UP.

#### 1-5 Location of Repair Parts

a. This manual contains one cross-reference index (sec V) 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 V) 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 III) and locate the figure number (col 7a) and item number or reference designation (col 7b) as noted in the FSN index.

c. When the figure and item number or reference designation are known, scrutinize columns 7a and 7b of the repair parts list (sec III) until the item is located.

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

#### 1-6. Abbreviations

Not applicable.

#### 1-7. Reporting of Equipment Publication 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 Blank Forms) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-DM, Fort Monmouth, NJ, 07703.

## SECTION III

TM11-6625-307-20P

(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) FIGURE ITEM NO NO	
					(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(A) NO	(B) ITEM NO
PAOZZ	6625-376-2142	ADAPTER J104 FOR WAVEGUIDE CABLE 302-760A (72825)	EA	1	*	*	*	*	4-2	J104
PAOHD	6145-617-1376	CABLE, POWER, ELECTRICAL W101A C0-03HGF3-16-042* 5 (81349)	FT	7	*	*	*	*	4-2	
PAOZZ	5999-244-5150	CAP, ELECTRICAL NO-REF-DESIG FOR FUSEHOLDER 9435-1-2 (71400)	EA	2	*	*	*	*		
PAOZZ	5910-889-4306	CAPACITOR, FIXED, CERAMIC DIELECTRIC C143 CK21AV390K (81349)	EA	1	*	*	*	*		C143
PAOZZ	5935-636-7145	CONNECTOR, PLUG P102 UP121M (81349)	EA	1	*	*	*	*		P102
PAOZZ	5935-647-3546	CONNECTOR, PLUG, ELECTRICAL P101 P/O POWER CABLE 5269 (74545)	EA	1	*	*	*	*		P101
PAOZZ	5935-252-6324	COVER, ELECTRICAL CONNECTOR CAC1 C/O CAP AND CHAIN 83-1AC (02660)	EA	1	*	*	*	*		CAC1
XDOZZ		DIAL, CONTROL N101 DISAPPEARING CRANK 302-270A (72825)	EA	1	*	*	*	*	5-2	N101
PAOZZ	5960-188-8573	ELECTRON TUBE V109 OD3 (81350)	EA	2	*	*	*	*	5-2	V109
PAOZZ	5960-188-8573	ELECTRON TUBE V110 OD3 (81350)	EA	REF	*	*	*	*	5-2	V110
XDOZZ		ELECTRON TUBE V107 2C40 (81350)	EA	1	*	*	*	*	5-9	V107
PAOZZ	5960-262-0218	ELECTRON TUBE 108 5Y3GT (81350)	EA	1	*	*	*	*	5-2	V108
PAOZZ	5960-188-3574	ELECTRON TUBE V101 6SJ7WGT (81350)	EA	4	*	*	*	*	5-2	V101
PAOZZ	5960-188-3574	ELECTRON TUBE V102 6SJ7WGT (81350)	EA	REF	*	*	*	*	5-2	V102
PAOZZ	5960-188-3574	ELECTRON TUBE V104 6SJ7WGT (81350)	EA	REF	*	*	*	*	5-2	V104
PAOZZ	5960-188-3574	ELECTRON TUBE V106 6SJ7WGT (81350)	EA	REF	*	*	*	*	5-2	V106
PAOZZ	5960-262-0163	ELECTRON TUBE V105 6SN7WGTA (81350)	EA	1	*	*	*	*	5-2	V105
PAOZZ	5960-262-0167	ELECTRON TUBE V103 12AT7WA (81350)	EA	1	*	*	*	*	5-10	V103
PAOZZ	5955-665-4538	HOLDER, CRYSTAL UNIT X112B FOR CR101 CRYSTAL 302-331 (72825)	EA	1	*	*	*	*		
PAOZZ	5355-160-6096	KNOB E110 KNB107A (72825)	EA	2	*	*	*	*		E110
PAOZZ	5355-160-6096	KNOB E111 KNB107A (72825)	EA	REF	*	*	*	*		E111
PAOZZ	6210-188-8779	LENS, INDICATOR LIGHT NO-REF-DESIG 1/2 IN DIA. RED GLASS FROSTED FRONT AND BACK 81-121 (72619)	EA	1	*	*	*	*		
XDOZZ		ROD X112C 302-337 (72825)	EA	1	*	*	*	*		
XDOZZ		SEMICONDUCTOR DEVICE, DIODE CR101 1N21B (81350)	EA	1	*	*	*	*	5-10	
XDOZZ		SEMICONDUCTOR DEVICE, DIODE CR103 1N21B (81350)	EA	REF	*	*	*	*	5-10	
XDOZZ		SHIELD, ELECTRON TUBE E109 TS103001 (81350)	EA	1	*	*	*	*		E109

## SECTION IV

TM11-6625-307-20P

(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
XDOZZ		WRENCH, SPANNER H108 TABULAR, 0.54 IN DIA OF OPENING, 2 1/2 IN LG O/A H108-186 (81757)	EA	1	1	1	1	1	5-2	H108

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		
5355-160-6096		E110	5960-188-8573	5-2	V110		
5355-160-6096		E111	5960-262-0163	5-2	V105		
5910-889-4306		C143	5960-262-0167	5-10	V103		
5935-252-6324		CAC1	5960-262-0218	5-2	V108		
5935-636-7145		P102					
5935-647-3546		P101					
5955-665-4538							
5960-188-3574	5-2	V101	5999-244-5150				
5960-188-3574	5-2	V102	6145-617-1376	4-2			
5960-188-3574	5-2	V104	6210-188-8779				
5960-188-3574	5-2	V106	6625-376-2142	4-2	J104		
5960-188-8573	5-2	V109					
REFERENCE NO	MFR CODE	FIG NO	ITEM NO	REFERENCE NO	MFR CODE	FIG NO	ITEM NO
CK21AV390K	81349		C143	302-331	72825		
C0-03HGF3-16-0425	81349	4-2		302-337	72825		
H108-186	81757	5-2	H108	302-760A	72825	4-2	J104
KNB107A	72825		E110	5Y3GT	81350	5-2	V108
KNB107A	72825		E111	5269	74545		P101
TS103U01	81350		E109	6SJ7WGT	81350	5-2	V101
UP121M	81349		P102	6SJ7WGT	81350	5-2	V102
OD3	81350	5-2	V109	6SJ7WGT	81350	5-2	V104
OD3	81350	5-2	V110	6SJ7WGT	81350	5-2	V106
1N21B	81350	5-10		6SN7WGTA	81350	5-2	V105
12AT7WA	81350	5-10	V103	81-121	72619		
2C40	81350	5-9	V107	83-1AC	02660		CAC1
302-270A	72825	5-2	N101	9435-1-2	71400		

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**ARNG & USAR:** None.

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

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