DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS TEST SET, ROTARY ACTUATOR TS-1663/ASW-12(V) (FSN 6625-973-4185) AND

FIXTURE, TEST, ROTARY ACTUATOR MX-3719/ASW-12(V) (FSN 6625-987-8530)

Headquarters, Department of the Army, Washington, D.C. 14 March 1975

Current as of December 1974

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^{*}This manual supersedes TM 11-6625-516-20P, 18 November 1963.

SECTION I

1-1. **Scope**

This manual lists repair parts and special tools required for the performance of organizational maintenance of the TS-1663/ASW-12(V) and MX-3719/ASW-120. The PCCN for the TS-1663/ASW-12(v) is GANABZ and GANACA for the MX-3719/ASW-12(V).

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 rodes 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.

Code Explanation

procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.

- P E Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
- P F 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.
- K D 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.
- 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.

Code

Explanation

- *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.
- X D 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.

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 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 (jourth 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 organizational level.

Code Application/Explanation

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.
- Repairable item. Repair, condemnation, and disposal not authorized below depot Specialized Repair Activity level.
- A Item requires special handlingor 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: AMSELMA-AN, Fort Monmouth, N.J., 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 calumn is divided as follows:
- (1) Figure number. Indicates the figure number of the illustration on which the item is shown in TM 11-6625-516-12.
- (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 -

Code Used on

A8E TS-1663/ASW-12(V) A8F MX-3719/ASW-12(V)

b. The following publication pertains to **the** equipment and its **components**:

TM 11-6625516-12

Operator and Organizational Maintenance
Manual: Test Set, Rotary Actuator TS-1663/
ASW-12(V) and Fixture, Test, Rotary Actuator MX-3719/ASW-12(V).

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 Tederal 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 if Equipment Publication

The reporting of errors, omissions, and recommenda-

tions 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-AN, Fort Monmouth, N.J., 07703.

SECTION III

1 (1)	(2)	(3)		(5)	(6)				(7)	
	****		1	QTY.	15-DAY ORGANIZATIONAL MAINTENANCE ALW				ILLUSTRATION	
SMR	FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	UNIT OF MEAS	INC IN UNIT	(0)	(b)	(c)	(d)	(a) FIGURE	(b)
PACLL	5920-280-3537	FUSE CARTRIDGE NO-REF-DESIG 100 AMP, 250 V MAX, 1.250 IN LG X 0.250 IN DIA:	• • •	1	1-5	6-20	21-50	51-100	MO	NO
XDCEE		MS90078-12-1 (81349) FUSE, CARTRIDGE NO-REF-DESIG 3.0 AMP, 250V MAX, 1.20 IN LG X 0.250 DIA;	EA	1	• *			*		
XDOZZ		MS90078-12-1 (81349) INSULATION SLEEVING ELECTRICAL NO-REF-DESIG PLAS BLK, U.062 IN WALL THK, 2.031 IN LG O/A: 628LACK (76545) A8E	EA	4		*	*	*		
PACZZ	5355-555-0145		EA	3	*		*	*		
XDCZZ		KNOB NU-REF-DESIG SETSCREW TYPE, PUINTER SHAPE, 1.344 IN LG X 0.928 W X 1.027 THICK U/A; MS91528-2K2D (81349) ABE	EA	1	*	*	*	*		
PACZZ	6240-223-9100	LAMP, GLUM DS2 NEON GAS, 1/25 M, 1.187 MAX H. O/A; NE51 (81349) A8E		1	*	*	*	*	6	DS
PACZZ	6240-155-8714	LAMP, INCANDESCENT DS1 28V, 2-1/4 M, 0.17 AMP; MS25231-313 (81349) A8E		1	*	*	*	*	6	งรา
XDOZZ		STJD, EXTENSION NO-REF-DESIG ALUMINUM,	EA	3	*	*	*	*		
XD 0 ZZ		2518916 (07187) A8E ADAPTER, SHAFT NO-REF-DESIG .875 IN DIA, 0.343 IN W U/A; 2518915 (07187) A8F	EA	2	*	*	*	*	į	
PAUZZ	5120-227-8095	ADAPTER, SUCKET WRENCH NU-REF-DESIG MALE TO FEMALE 1/4 IN MALE, 3/8 FEMALE; MS16235-2 (81349) A8F	EA	1		*	*	*	4	29
XDOZZ		BEARING, BALL; ANNULAR NO-REF-DESIG SINGLE RUM, RADIAL, -187 BORE DIA, -500 IN OD, 196 IN U/A;	EA	1	*	*	¢	*		
ZZGAP	6625-055-3717	SR3SS4G2 (70854) CLAMP DRUM ASSEMBLY NO-REF-DESIG P/O EQUIPMENT FURNISHED MITH TEST FIXTURE;	EA	1	*	*	*	*	4	1
PAUZZ	6625-056-0247	2579697 (07187) A8F CLAMP, GEAR 9 ALUM P/O EQUIP FURN M/TEST FLXTURE:	EA	1	*	*	*	*	4	21
PAUZZ	6625-055-0248	2579689 (07187) LLAMP, SWIVEL NO-REF-DESIG STEEL, PROVIDES HOLDER INDICATOR ON TEST FIXTURE;	EA	1	*	*	*		4	12
XDOZZ		2503174 (07187) A8F DIAL, SCALE NO-REF-DESIG U TO 360Cm;	EA	1	*	*			4	32
XDOZZ		610219 (00141) A8F FITTING ASSEMBLY NO-REF-DESIG P/O EQUIP F/W TEST FIXTURE: 2579687 (07187) A8F	EA	1	*	*	*	*		
XDOZZ		AGE, DIAL, INDICATOR NO-REF-DESIG	EA	1	*	*	*	*	7	
XD0ZZ			EA	1	8	*	*	*		
PAOZZ	5815-056-0425		EA	1	*	*	*	*		
XDOZZ		GEAR SPUR NO-REF-DESIG 1.875 IN DIA X .500 IN LG THO .127 IN DIA HOLES ON 1.125 IN M ^T G CENTERS;	EA	1	*	*	*			ļ
XDOZZ		2555082-001 (07187) JEAR, ASSEMBLY, PINION NO-REF-DESIG C/O GEAR. PIN AND HUB;	EA	1	*	*	*	*		
XDO ZZ		2555089-001 (07187) A8F JEAR, SPUR ND-REF-DESIG 2.152 IN DIA BY 0.625- IN LG TWO 0.1257 IN DIA HOLES OR 1.125 IN MTG JENTERS;	EA	1		*	*	*		
XDOZZ		2555086-001 (07187) ABF JEAR, SPUR ND-REF-DESIG 2-625 IN DIA BY 0.625. IN LG THO .127 IN DIA HOLES ON 1-125 IN MTG JENTERS:	EA	1	*	*	*	*		
XDOZZ		2555086-003 (56232) A8F ,EAR, SPUR ND-REF-DESIG 2.375 IN DIA, BY 0.625 IN LG, TWO 0-125 IN DIA HOLES ON 1.125 IN MTG :ENTERS:	E .	1	*	*	*	•		
XDOZZ		2555086-002 (07187) SEAR, SPUR NO-REF-DESIG 2.375 IN DIA X .500 IN LG TWO 1.27 DIA HOLES ON 1.125 MTG CENTERS: 2555082-003 (C7187)	EA	1	*	*	•	*		

(t B)i	((2))	(3)	(4)	(5)		(6)		6	7 n
	· • • • • • • • • • • • • • • • • • • •		E H	A.T.	15-DAY ORGANIZATION			n	
14 P	FEDERAL	DESCRIPTION	UNIT	INC			(d)	(a)	PATION
mæ Døe	CEMPLE		of .	IN T	ren (ren)	· · · · · · · · · · · · · · · · · · ·	~~::	CURE	RREM
		REFERENCE NUMBER & MFR CODE USAS	LE ON CODE MEAS	UNIT	1-5 6-2	21-50 5	1-100	140	#Ø
024		GEAR, SPUR NO-REF-DESIG 2.187 IN DIA	X 0.050 EA	1		•	*	6	
	6625-056-0252	IN LG TWO .127 IN DIA HOLES ON 1.125 M CENTERS:	ITG					<u> </u>	
		2555082-002 1071871	ABF		1		i i	4.	26
ozz		REY, LUCKING NO-REF-DESIG STEEL:	AUF	1	•				34
022		ANDS NO-REF-DESIG 2.250 IN DU250	THE O/A: EA	1			•	1	
022		2555084 (07187) NUT, PLAIN, KNURLED NO-REF-DESIG 3/4	ABF 1.750) IN EA	2	. •			0.000	
		MIG NOM SIZE, CLASS 28 THD: 2518917 (07187)	A8F				1		
ozz		PIN STRAIGHT, HEADLESS NO-REF-DESIG		ı	•	• •	•		
		LG Q/A218 IN NGM DIA; 2518963 (07187)	A8F				Sale of Sale o	Į.	
02Z		PIN. STRAIGHT. THREADED NO-REF-DESIG	3.875 IN. EA	1					
		LG O/A. 3.500 IN LG GRIP218 IN DIA CLASS 24 THD:	GRIP, GRJ2				1	1	
oan		2518964 (07187)	ABF STOCK FA				4	9	
OZZ		RING. PULL NO-REF-DESIG .063 IN DIA PROVIDES PULL HANDLE ON SPRING LOADED	TEST	•		-	1	8	
		EQUIPHENT: 2555194 (56232)	ABF					li E	
220	6625-056-0244	SCALE, INSTRUMENT NO-REF-DESIG RANGE	0 TO 15 EA	ı		• •	•	4	9
		LOS: 2503186 (07187)	A8F				100	i i	
110	5305-754-4310	SCREW. EXTERNALLY RELIEVED BODY NO-RI	F-DESIG EA	2	•		8		
		PANHEAD, SLOT DRIVE, 6(037) IN LG; 2518018 (07187)	A8F					9	
110	5305-784-9406	SCREW, SPECIAL NO-REF-DESIG 3-502 IF	LG, EA	2			•		
		250 IN ACROSS FLATS. SLOT DRIVE;	3.0 320.30.0				į		
	E210 0E7 0E26	2518019 (07187) SPACER, SLEEVE NO-REF-DESIG .191 IN	NOM ID EA	2					
WZZ	5310-057-9536	.281 IN NOW OD047 IN MAX M .043 IN	MIN THK;				- Administra		
ozz		0362011 (07187) THUMBSCREW NO-REF-DESIG STEEL. LINC	ABF PL, .750. EA	REF				4	12
022		IN H OF HEAD, .843 IN W OF HEAD, 10 (.190) IN 24				100		
		SIZE DESIGNATION, NC CLASS A THE; 2555195 (07187)	A8F						
OZZ	5120-585-7706	HRENCH, TORQUE NO-REF-DESIG 3/8 IN	AALE ORIVE. EA	1	3	•	*	4	5
		0-100 LB RATED CAP; DR1001 (45225)	A8F	_					
110	5120-684-0404	WRENCH, TORQUE NO-REF-DESIG 3/8 IN 1	TALE DRIVE, EA	ı			7	•	٩
		F501 (58332)	A8F				ل		١,
102 Z	5120-221-7971	MRENCH, TORQUE NO-REF-DESIG 3/8 MALE 25 LB RATED CAPACITY;	E DRIVE, U- EA	1			7	1	ľ
		GGGWOO686 (81348) WRENCH, TORQUE NO-REF-DESIG 3/8 DRI	ASF	1				4	,
OZZ	5120-618-4433	10 LB CAPACITY:		•					
		F10-1 (58332)	ASF			and the same of th			
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SECTION V

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

STULK WHEER	figure Mo.	ITEM NO.	SIOCK NUMBER	FIGURE NJ.	ITEM NO.
			5920-280-3537		
5120-221-7971 5120-227-8095 5120-585-77066 5120-618-4433 5120-684-0604	4 4 4 6	7 29 5 8 6	6210-155-8714 6240-223-9100	6	DS1 DS2
5305-754-4310 5305-784-9405			6625-056-0244 6625-056-0247 6625-056-0248	4 4 4	9 21 12
5310-057-9536			6625-056-0252		
5355-556-0145			6625-056-3717	4	19
HEFERENGE NJ.	NFR C 00	FIG. ITEM	REFERENCE NO.	MFR Gúðé	FIG. ITEM
OR1001 F10-1 F501 GGGWUUDDO MS16235-2 MS25231-313 MS90078-12-1 MS91528-1K2d MS91528-2K2D	4522 5833 5833 8134 8134 8134 8134	2 4 8 2 4 6 8 4 7 9 4 29 9 6 DS1 9 9	2518963 2518964 2554750 2555082-001 2555082-002 2555084 2555086-001	07187 07187 07187 07187 07187 07187 07187 07187	4 34
NE51 SR3SS402 0302011 2503139 2503174 2503140 2514018 2514019 2514915 2514917	81 34 7085 0718 0718 0718 0718 0718 0718 0718	4 7 7 7 7 4 1 4 9 1 1	2555086-003 2555089-001 2555089-002 2555194 2555195 2579687 2579689 2579697 610219	56232 U7187 07187 U7137 56232 U7187 U7187 U7147 U7147 U7147 U1141	4 12 4 21 4 19 4 32

By Order of the Secretary of the Army:

FRED C. WEYAND General, United States Army Chief of Staff

Official:

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