

OCT 23 1991

*TM 11-5820-302-12P
TO 31R2-2GRC-464

GOVERNMENT DOCUMENTS

DEPARTMENT OF THE ARMY TECHNICAL MANUAL
DEPARTMENT OF THE AIR FORCE TECHNICAL ORDER

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LIST AND MAINTENANCE ALLOCATION CHART FOR
ANTENNA GROUP OA-1389/GRC

Departments of the Army and the Air Force, Washington 25, D. C.
13 July 1959

SECTION I. INTRODUCTION	Paragraph	Page
Scope	1	1
Stockage	2	2
Repair parts	3	2
Other service items	4	2
Comments or suggestions	5	2
II. FIRST ECHELON FUNCTIONAL PARTS LIST		
III. SECOND ECHELON FUNCTIONAL PARTS LIST		
V. MAINTENANCE ALLOCATION		
General	6	5
Maintenance by using organizations	7	5
Mounting hardware	8	5
MAINTENANCE ALLOCATION CHART		6
ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS		7

SECTION I

INTRODUCTION

1. Scope

a. This manual includes an Operator's Maintenance Repair Parts and Special Tools List, an Organizational Maintenance Repair Parts and Special Tools List, and a Maintenance Allocation Chart.

b. The Operator's Maintenance Repair Parts and Special Tools List lists items supplied for initial operation and for running spares. The list includes accessories, parts, and material

issued as part of the major end item. No items are authorized for basic operator maintenance of the equipment.

c. The Organizational Maintenance Repair Parts and Special Tools List lists the quantities of repair parts authorized for organizational maintenance and is a basis for requisitioning by organizations which are authorized the major item of equipment. End items of equipments are issued on the basis of allowances pre-

*This manual supersedes so much of DA Supply Manual SIG 7 & 8 OA-1389/GRC, 18 June 1958, as pertains to basic issue and second echelon items.

scribed in equipment authorization tables and other documents that are a basis for requisitioning.

e. Columns:

- (1) *Source, maintenance, and recoverability code.* Not used.
- (2) *Federal stock number.* The "Stock number" column lists the 11-digit Federal stock number.
- (3) *Designation by model.* Not used.
- (4) *Description.* Nomenclature or the standard item name and brief identifying data for each item is listed in this column. When requisitioning, enter the nomenclature and description on the requisition.
- (5) *Unit of issue.* The unit of issue is the supply term applied to the smallest quantity by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.
- (6) *Expendability.* Expendable items are indicated by the letter X; nonexpendable items are indicated by NX.
- (7) *Quantity authorized.* Under "Items Comprising an Operable Equipment" the column lists the quantity of items supplied for the initial operation of the equipment. Under "Running Spares and Accessory Items" the quantity listed is issued initially with the equipment as spare parts. This quantity is authorized to be kept on hand by the operator for maintenance of the equipment.

(8) *Quantity incorporated in unit.* This column lists the quantity of each particular part found in a given assembly, component, or equipment.

(9) *Organizational (Sec. III).* Refer to paragraph 3.

(10) *Illustrations.* Not used.

2. Stockage

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. Repair Parts

Repair parts which may be required for performing organizational maintenance, but are not authorized for stockage in the prescribed load are identified by an asterisk (*) and are to be requisitioned as required, for immediate use only. Refer to AR 700-18.

4. Other Service Item

Other service items listed herein are authorized in accordance with AR 700-51.

5. Comments or Suggestions

Any comments concerning omissions and discrepancies in this manual will be prepared on DA Form 2028 and forwarded direct to Commanding Officer, U. S. Army Signal Equipment Support Agency, Fort Monmouth, N. J., ATTN: SIGFM/ES-ML.

FIRST ECHELON FUNCTIONAL PARTS LIST

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE				(2) FEDERAL STOCK NUMBER				(3) DESIGNATION BY MODEL				(4) DESCRIPTION				(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY AUTHORIZED	(8) ILLUSTRATIONS	
																			FIGURE NO	ITEM NO
												ITEMS COMPRISING AN OPERABLE EQUIPMENT								
												ANTENNA GROUP OA-1389/GRC								
				5820-543-0115								ANTENNA GROUP OA-1389/GRC				ea	NX			
				Order thru AGC								TECHNICAL MANUAL TM 11-5820-302-12P				ea	X	2		
				Order thru AGC								TECHNICAL MANUAL TM 11-687				ea	X	-		
				5985-392-8076								CASE, ANTENNA REFLECTOR CY-1385/TRC				ea	X	1		
				5985-392-8077								CASE, ANTENNA REFLECTOR SUPPORT CY-1387/TRC				ea	X	1		
				5975-393-1269								CLAMP, ELECTRICAL: SigC dwg No. SC-C-66471				ea	X	4		
				5975-284-6013								GUY MK-1483/G: 75 ft				ea	X	4		
												HANDLE, SOCKET WRENCH: J H Williams part No. B-51 (Ord Stk No. 41-H-1504-560)				ea	NX	1		
				8130-321-9994								REEL, CABLE: SigC dwg No. SC-D-16622				ea	X	2		
				5985-264-7477								REFLECTOR ANTENNA AT-414/TRC				ea	X	2		
				4030-599-9338								SHACKLE, ANCHOR: SigC dwg No. SC-C-64939				ea	X	16		
				4030-096-7436								SHACKLE, CHAIN: SigC dwg No. SC-B-66346				ea	X	2		
												SOCKET, WRENCH, COMMON: J H Williams part No. B-1216 (Ord Stk No. 41-W-2999-110)				ea	NX	1		
												SOCKET, WRENCH, COMMON: J H Williams part No. B-1218 (Ord Stk No. 41-W-2999-135)				ea	NX	1		
				5985-262-9175								SUPPORT, ANTENNA REFLECTOR AB-325/TRC				ea	NX	1		
				5120-293-0157								WRENCH, BOX: J H Williams part No. 6725B				ea	NX	1		
												WRENCH, OPEN END, FIXED: Fed spec No. GGG-W-636, type No. V class No. B. (Ord Stk No. 41-W-1419-83)				ea	NX	1		
												RUNNING SPARES AND ACCESSORY ITEMS								
												ANTENNA GROUP OA-1389/GRC								
				5975-393-1269								CLAMP, ELECTRICAL: SigC dwg No. SC-C-66471				ea	X	2		

SECTION III. SECOND ECHELON FUNCTIONAL PARTS LIST

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE				(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) ORGANI- ZATIONAL 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS 2ND	(9) ILLUSTRATIONS	
											FIGURE NO	ITEM NO.
						ANTENNA GROUP OA-1389/GRC						
				5820-543-0115		ANTENNA GROUP OA-1389/GRC	ea	NX				
				3940-568-9707		BLOCK, TACKLE: Vulcan Steel Prod part No. 124715A, size 1/8	ea	X	4	*		
				5975-393-1269		CLAMP, ELECTRICAL: SigC dwg No. SC-C-66471	ea	X	4	*		
				5985-505-7028		CRADLE, ANTENNA MAST: SigC dwg No. SC-C-66409	ea	X	1	*		
				5340-663-3933		HANDLE, CHEST: Stanley Works part No. 55-1216-A, dwg No. U-7R2	ea	X	4	*		
						HANDLE, SOCKET WRENCH: J H Williams part No. B-51 (Ord Stk No. 41-H-1504-560)	ea	NX	1	*		
				8130-321-9994		REEL, CABLE: SigC dwg No. SC-D-16622	ea	X	2	*		
				5340-598-3550		RING, CONNECTING, ROUND: W J Tiebout part No. 779-21D-5/16	ea	X	4	*		
				4030-599-9338		SHACKLE, ANCHOR: SigC dwg No. SC-C-64939	ea	X	16	*		
				4030-096-7436		SHACKLE, CHAIN: SigC dwg No. SC-B-66746	ea	X	2	*		
						SOCKET, WRENCH, COMMON: J H Williams part No. B-1216 (Ord Stk No. 41-W-2999-110)	ea	NX	1	*		
						SOCKET, WRENCH, COMMON: J H Williams part No. B-1218 (Ord Stk No. 41-W-2999-135)	ea	NX	1	*		
				5985-262-9175		SUPPORT, ANTENNA REFLECTOR AB-325/TRC	ea	NX	1	*		
				5820-514-4876		WIRE ROPE ASSEMBLY, SINGLE LEG: SigC dwg No. SC-C-66776	ea	X	4	*		
				5120-293-0157		WRENCH, BOX: J H Williams part No. 6725B	ea	NX	1	*		
						WRENCH, OPEN END, FIXED: Fed spec No. GGG-W-636, type No. V class No. B (Ord Stk No. 41-W-1419-B3)	ea	NX	1	*		

SECTION IV

MAINTENANCE ALLOCATION

6. General

a. The maintenance allocation chart assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

b. Columns in the maintenance allocation chart are defined as follows:

- (1) *Part or component.* Only the nomenclature or standard item name is annotated in this column.
- (2) *Maintenance function.* This column indicates the various maintenance functions allocated to the echelon capable of performing the operation. These are defined as follows:
 - (a) *Service.* To clean, to preserve, and to replenish fuel and lubricants.
 - (b) *Adjust.* To regulate periodically to prevent malfunction.
 - (c) *Inspect.* To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.
 - (d) *Replace.* To substitute serviceable assemblies, subassemblies, and parts for unserviceable components.
 - (e) *Repair.* To restore to a serviceable condition by replacing unserviceable parts or by any other action required utilizing tools equipment, and skills available, to include welding, grinding, riveting, straightening, adjusting, etc.
 - (f) *Rebuild.* To restore to a condition comparable to new by disassembling the item to determine the condition of its component parts and reassembling it using serviceable, rebuilt or new assemblies, subassemblies, and parts.
- (3) *1st, 2d, 3d, 4th, and 5th echelon.* The symbol "X" indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair

parts will be stocked at that level. Echelons higher than the echelon marked by "X" are authorized to perform the indicated operation.

- (4) *Tools required.* This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment listed in the allocation of tools for maintenance function portion. The grouping of codes in this column of the maintenance allocation Chart indicates the tool, test, and maintenance equipment required to perform the maintenance function.
- (5) *Remarks.* Not used.

c. Columns in the portion allocating of tools for maintenance functions are defined as follows:

- (1) *Tools required for maintenance functions.* This column lists tools required to perform the maintenance functions.
- (2) *1st, 2d, 3d, 4th, 5th echelon.* The dagger (†) in columns 2 through 6 indicates the echelons allocated the facility.
- (3) *Tool code.* This column lists the tool code assigned.
- (4) *Remarks.* Not used.

7. Maintenance by Using Organizations

When this equipment is used by signal service organizations organic to theater headquarters or communication zones to provide theater communications, those maintenance functions allocated up to and including fourth echelon are authorized to the organization operating this equipment.

8. Mounting Hardware

The basic entries of this Maintenance Allocation Chart do not include mounting hardware such as screws, nuts, bolts, washers, brackets, clamps, etc.

MAINTENANCE ALLOCATION CHART

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
PART OR COMPONENT	MAINTENANCE FUNCTION	1ST ECH	2ND ECH	3RD ECH	4TH ECH	5TH ECH	TOOLS REQUIRED	REMARKS
ANTENNA GROUP OA-1389/GRC	service adjust inspect replace repair rebuild	X	X X X X				1 thru 5 1 thru 5 4 4 4 4, 5	
BAG, COTTON DUCK	replace		X					
BLOCK, TACKLE	replace		X					
CATCH, LUGGAGE	replace		X					
CLAMP, ELECTRICAL	replace		X					
CRADLE, ANTENNA MAST	replace		X					
HANDLE, CHEST	replace		X					
HANDLE, SOCKET WRENCH	replace		X					
REEL, CABLE	replace		X					
RING, CONNECTING, ROUND	replace		X					
SHACKLE, ANCHOR	replace		X					
SHACKLE, CHAIN	replace		X					
SOCKET, WRENCH, COMMON	replace		X					
SUPPORT, ANTENNA REFLECTOR AB-328/TRC	replace repair		X			X		
WIRE ROPE ASSEMBLY, SINGLE LEG	replace		X					
WRENCH, BOX	replace		X					
WRENCH, OPEN END, FIXED	replace		X					

ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	1ST ECH	2ND ECH	3RD ECH	4TH ECH	5TH ECH	TOOL CODE	REMARKS
0A-1389'GRC							
BOX WRENCH STK No. 5120-20R-0157	+	+				1	
OPEN END WRENCH ORD STK NO 41-W-1419-B3	+	+				2	
SOCKET WRENCH ORD STK NO 41-W-2000-135	+	+				3	
TOOL EQUIPMENT TE-11		+				4	
TOOL EQUIPMENT TE-113		+	+	+	+	5	

BY ORDER OF THE SECRETARIES OF THE ARMY AND THE AIR FORCE:

L. L. LEMNITZER,
General, United States Army,
Chief of Staff.

Official:

R. V. LEE,
Major General, United States Army,
The Adjutant General.

THOMAS D. WHITE,
Chief of Staff, United States Air Force.

Official:

J. L. TARR,
Colonel, United States Air Force
Director of Administrative Services.

Distribution:

Active Army:

ASA (2)
CNGB (1)
Technical Stf, DA (1)
except CSigO (30)
Technical Stf Bd (1)
USCONARC (5)
USA Arty Bd (1)
USA Armor Bd (1)
USA Armor Bd Test Sec (1)
USA Inf Bd (1)
USA Air Def Bd (1)
USA Air Def Bd Test Sec (1)
USA Abn & Elct Bd (1)
USA Avn Bd (1)
USA Arctic Test Bd (1)
US ARADCOM (2)
US ARADCOM Rgn (2)
OS Maj Comd (5)
OS Base Comd (5)
Log Comd (5)
MDW (1)
Armies (5) except First US
Army (7)
Corps (2)
Div (2)
USATC (2)
Fld Comd, Def Atomic Spt Agcy (5)
Yuma Test Sta (2)
USA Elct PG (1)
Svc Colleges (5)
Br Svc Sch (5) except
USASCS (25)
Gen Depot (2) except Atlanta
Gen Depot (None)

Sig Sec, Gen Depot (10)
Sig Depots (17)
AFIP (1)
WRAMC (1)
AMS (1)
Engr Maint Cen (1)
USA Comm Agcy (2)
USA Sig Comm Engr Agcy (1)
USA Sig Eqp Spt Agcy (7)
USA Sig Msl Spt Agcy (13)
Trans Terminal Comd (1)
Army Terminals (1)
Port of Emb (OS) (2)
OS Sup Agcy (1)
Sig Fld Maint Shops (3)
Sig Lab (5)
Mil Dist (1)
USA Corps (Res) (1)
Sectors, USA Corps (Res) (1)
TASSA (15)
Midwestern Rgn Ofc (TASSA) (1)
JBUSMC (2)
USA Sig Pubs Agcy (8)
Army Pictorial Cen (2)
USA Ord Msl Comd (3)

Units org under fol TOE:

11-7 (2)	11-117 (2)
11-15 (2)	11-155 (2)
11-16 (2)	11-500 AA-AE (2)
11-18 (2)	11-587 (2)
11-57 (2)	11-592 (2)
11-95 (2)	11-597 (2)
11-98 (2)	39-61 (2)

NG: State AG (3); units—same as Active Army except allowance is one copy to each unit.

USAR: None.

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