

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT, GENERAL SUPPORT, AND
DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
PERISCOPE, TANK: M28 (1240.346-8735);
M28C (1240-706-0794); AND
M28D (1240-990-1851)

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M28D (124099- 1851)**

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Section I. INTRODUCTION

1. Scope

This manual lists repair parts, special tools, and equipment required for the performance of direct support, general support, and depot maintenance of the Periscope M28, M28C, and M28D.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. *Repair Parts-Section II.* A list of repair parts for the performance of maintenance at the direct support, general support, and depot level in figure and item number sequence.

b. *Special Tools, Test and Support Equipment Section III.* A list of special tools, test and support equipment for the performance of maintenance at the direct support, general support, and depot level.

c. *Federal Stock Number and Reference Number Index-Section IV.* A list of Federal Stock Numbers in ascending numerical sequence followed by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

3. Explanation of Columns

The following provides an explanation of columns in the tabular list in Sections II, and III.

a. *Source Maintenance and Recoverability Codes (SMR), Column I:*

(1) Source code indicates the selection status and source for the listed item. Source codes are:

Code	Explanation
P.....	Repair parts, special tools, and test equipment which are stocked in or 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, measure 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 provision of AR 380-41, which are stocked and supplied by the Army COSMEC logistic system.
M	Repair parts which are not procured or

Code

Explanation

	stocked, but are to be manufactured in indicated 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 which are not procured or stocked and the mortality of which normally is 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 requirements for such items will be filled by use of the next higher assembly or component.
X2	Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain same through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned with accompanying justification, through normal supply channels.
G	Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.
(2) Maintenance code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:	
Code	Explanation
O	Organizational maintenance.
F	Direct support maintenance.
H	General support maintenance.
D	Depot maintenance.
(3) Recoverability code, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:	
Code	Explanation
R	Applied to repair parts (assemblies and components) which are considered economically reparable at direct and general support maintenance levels. When the maintenance capability to repair these items does not exist they are normally disposed of at the GS level.

Code	Explanation
	When supply considerations dictate some of these spare parts may be listed for automatic return to supply for depot level repair as set forth in AR 71060. When so listed, they will be replaced by supply on an exchange basis.
S.....	Repair parts and assemblies which are economically reparable at DSU and GSU activities and which normally are furnished by supply on an exchange basis.... When items are determined by GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T.....	High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
U.....	Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials or high dollar value reusable casings or castings.

b. *Federal Stock Number, Column 2.* This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. *Description, Column 3.* This column indicates the Federal item name and any additional description of the item required. The abbreviation "w/e" when used as a part of the nomenclature indicates the Federal stock number includes all armament, equipment accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturer in parentheses.

d. *Unit of Measure (U/M), Column 4.* A 2 character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based e.g., ft, ea, pr, etc.

e. *Quantity Incorporated in Unit, Column 5.* This column indicates the quantity of the item used in the assembly group. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, gaskets, etc.).

f. *30-Day DS/GS Maintenance Allowances, Columns 6, and 7.*

Note: Allowances in GS column are for GS maintenance only.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item is the total

quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by

1.50 or 60 parts required.

g. *1-Year Allowances Per 100 Equipments/Contingency Planning Purposes, Column 8.*

This column indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

h. *Depot Maintenance Allowance Per 100 Equipments, Column 9.* This column indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in the allowance column. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

i. *Illustration, Column 10.* This column is divided as follows:

(1) Figure .Number, Column 10a. Indicates the figure number of the illustration in which the item is shown.

(2) Item Number, Column 10b. Indicates the callout number used to reference the item in the illustration.

4. Special Information

a. Identifications of the usable on codes included in column 3 of this publication are:

Code	Used on
A	Model M28
B	Model M28C
C	Model M28D

b. Periscope Tank M28 is used with:		
Carrier, Periscope M59 w/M13 Cupola		
Mortar, Self-propelled 42 in. M84		
Tank 90mm Gun M48A1, and M48A2		
c. Periscope Tank M28C is used with:		
Car, Armored, Light XM706, and SM706E1		
Tank 90mm Gun M48A2C, and M48A3		
Conventional and Infra Red		
Tank 105mm Gun M60 (Conventional only)		
M60A1 (Conventional only)		
Tank, Flame Thrower M67A1 and M67A2.		
d. Periscope Tank M28D is used with:		
Flame Thrower Self-propelled M132, and		
M132A1		
e. Action change codes indicated in the left hand		
margin of the listing page denote the following:		
N-Indicates an added item not included in previous		
publications		
C-Indicates a change in data		
F-Indicates a change in FSN only		
f. The following publications pertain to Periscope,		
Tank: M28 series and their components		
M48A1 Tank		
TM 9-7012	Operator and Organiza-	
	tional Maintenance	
	Manual	
SM ORD 7 G-254	Organizational Mainte-	
	nance Allowance	
M48A2 Tank and M67A1	Flame Thrower	
TM 9-7022	Operator and Organiza-	
	tional Maintenance	
	Manual	
M59 Carrier and M84 Mortar		
TM 9-2300-203-12	Operator and Organiza-	
	tional Maintenance	
	Manual	
TM 9-2300-203-20P	Organizational Mainte-	
	nance Repair Parts	
	and Special Tools	
	List	
M48A2, M48A2C Tank and M167A1 Flame		
Thrower		
TM 2350-208-20P	Organizational Mainte-	
	nance Repair Parts	
	and Special Tools List	
M48A3 Tank		
TM 9-2350-224-10	Operator's Manual	
TM 9-2350-224-20	Organizational Mainte-	
	nance Manual	
TM 9-2350-224-25P	Organizational, Direct	
	Support, General	
	Support, and Depot	
	Maintenance Repair	
	Parts and Special	
	Tools List	

M60, and M60A1 Tank		
TM 9-2350-215-10	Operator's Manual	
TM 9-2350-215-20	Organizational Mainte-	
	nance Manual	
TM 9-2350-215-20P	Organizational Mainte-	
	nance Repair Parts	
	and Special Tools List	
XM706, and XM706E1 Armored Car		
TM 9-2320-245-20P	Organizational Mainte-	
	nance Repair Parts	
	and Special Tools List	
M132A1 Flame Thrower		
TM 9-2300-20/2/1	Organizational Mainte-	
	nance Manual	
M132, and M132A1 Flame Thrower		
TM 9-2300-224-20P/3	Organizational Mainte-	
	nance Repair Parts	
	and Special Tools List	
TM 9-2300-224-10/3/4	Operator's Manual	
M132 Flame Thrower		
TM 9-2300-224-20	Organizational Mainte-	
	nance Manual	

5. How to Locate Repair Parts

a. When Federal stock number or reference number is unknown:

(1) *First*. Find the illustration covering the assembly group to which the repair part belongs.

(2) *Second*. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(3) *Third*. Using the Repair Parts Listing, find the assembly group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.

b. When Federal stock number or reference number is known:

(1) *First*. Using the Index of Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second*. Using the Repair Part Listing, find the assembly group of the repair part and the illustration figure number and item number referenced in; the Index of Federal Stock Numbers and Reference Numbers.

6. Abbreviations

Abbreviations	Explanation
al-----	aluminum
aly-----	alloy