

TECHNICAL MANUAL }
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HEADQUARTERS
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DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
PERISCOPE, M17
(6650-704-3549)

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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, M17.

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. Not applicable.

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 Section II.

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:

| <i>Code</i> | <i>Explanation</i> |
|-------------|---|
| 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. |

| <i>Code</i> | <i>Explanation</i> |
|-------------|--|
| 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 COMSEC logistic system. |
| M | Repair parts which are not procured or 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 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:

| <i>Code</i> | <i>Explanation</i> |
|-------------|-----------------------------|
| 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:

| <i>Code</i> | <i>Explanation</i> |
|-------------|--|
| 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. 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 710-50. 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 a 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 acclamation 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 manufacturers 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 authorize 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. Periscope, M17 is used with the following end items with their supporting publications:

TM 9-2300-203-20 Organizational Maintenance Repair Parts and Special Tool Lists for Carrier, Personnel, Full-Tracked: Armored M59 and Mortar, Self-Propelled Field Tracked 4.2 in. M84

TM 9-2300-257-20 Organizational Maintenance Repair Parts and Special Tools Lists for Carrier, Personnel, Full-Tracked Armor M113A1, Carrier, Command Post, Light Tracked, M577A1, Carrier, Mortar 107mm Self-Propelled M106A1, Carrier, Mortar, 18mm, Self-Propelled M125A1, Carrier Flame Thrower, Self-Propelled M132A1, Chassis, Gun Anti-Aircraft Artillery 20mm Self-Propelled (XM-163 Weapons System) XM-741.

TM 9-2320-222-20P Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle Full-Tracked, Medium M88

TM 9-2320-238-20P Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked, Light Armored M578

TM 9-2350-201-20P Organizational Maintenance Repair Parts and Special Tools List for

Tank, Combat Full-Tracked: 76mm Gun M41, M41A1, M41A2 and Trainer, Tank Gunnery: 76mm Gun M17

TM 9-2350-209-20P Organizational Maintenance Repair Parts and Special Tools List for Howitzer, Light, Self-Propelled: Full-Tracked, 105mm M52 and M52A1

TM 9-2350-210-20P Organizational Maintenance Repair Parts and Special Tools List for Gun, Field Artillery Self-Propelled: 155mm M53 and Howitzer, Heavy Self-Propelled: Full-Tracked, 8-inch M55

SM ORD 7-G254 Tank, Combat, Full-Tracked: 90mm Gun, M48, M48A1 and Trainer Tank Gunnery, 90mm Gun, M20

SM ORD 7-G260 Carrier, Personnel, Full-Tracked: Armored, M75

SM ORD 7-G274 Recovery Vehicle Full-Tracked: Heavy M51

b. 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

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 num-

her. This index is in ascending FSN sequence followed by a list of reference numbers in ascending alpha-numeric 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

Not applicable

| | |
|---|--|
| 7. Federal Supply Codes for Manufacturers | |
| <small>C o d e</small> | <small>M a n u f a c t u r e r</small> |
| 19200 | Frankford Arsenal, Philadelphia, Pa. |
| 19207 | Army Tank Automotive Center, Warren, Mich. |

8. Recommendations for Maintenance Publication Improvements

Report 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 DA Publications) and forwarded direct to the Commanding Officer, Frankford Arsenal, ATTN: AMSWE-SMF-W 100, Philadelphia, Pa. 19137.

SECTION II. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT
AND DEPOT MAINTENANCE

| (1) Act on code | (2) SMR code | (3) Federal stock no. | (4) Description Reference Number & Mfr Code | (5) Unit of meas Usable | (6) Qty inc cunit | (6) 30-Day DS Maint allowance | | | (7) 30-Day GS Maint allowance | | | (8) 1-yr. alw per 100 equip cntgcy | (9) depot maint alw per 100 equip | (10) Illustration | | |
|--------------------------|--------------------|--------------------------------|---|-------------------------------------|----------------------------|-------------------------------------|--------------|---------------|-------------------------------------|--------------|---------------|---|--|----------------------|-------------------|--|
| | | | | | | (a) 1-20 | (b) 21-50 | (c) 51-100 | (a) 1-20 | (b) 21-50 | (c) 51-100 | | | (a) Fig. | (b) No Item No | |
| | | | PERISCOPE M17 7043549 | | | | | | | | | | | | | |
| N | X1F-- | | BODY 7043541 (19200) | | 1 | | | | | | | | | 1 | 1 | |
| N | X1F-- | | WINDOW 7043540 (19200) | | 2 | | | | | | | | | 1 | 2 | |
| N | X1F-- | | MIRROR 7043543 (19200) | | 2 | | | | | | | | | 1 | 3 | |
| N | X1F-- | | COVER 7048694 (19200) | | 1 | | | | | | | | | 1 | 4 | |
| N | X1F-- | | BODY 7674952 (19200) | | 1 | | | | | | | | | 1 | 5 | |
| N | X1F-- | | COVER 7043539 (19200) | | 1 | | | | | | | | | 1 | 6 | |
| N | P-O-- | 5330-900-8006 | SEAL, RUBBER, SPECIAL 10940477 (19207) | EA | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 36 | 25 | 1 | 7 | |

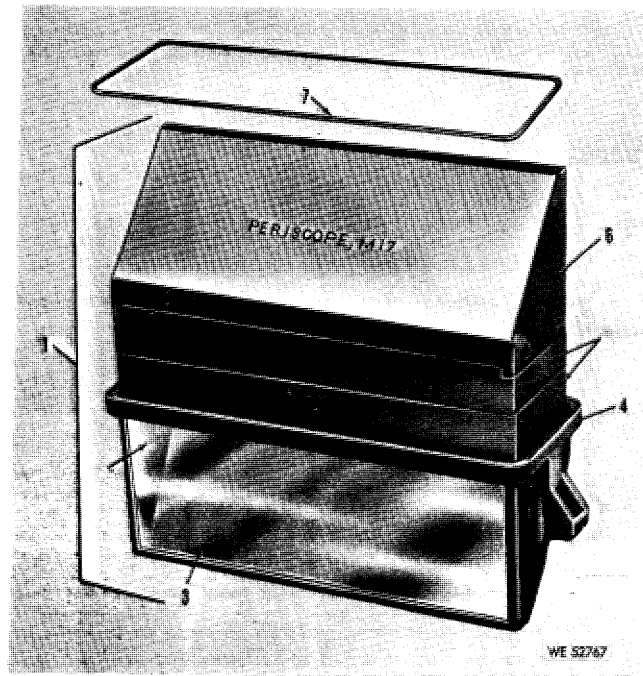


Figure i. Periscope M17—exploded view.

SECTION III. SPECIAL TOOLS AND SUPPORT EQUIPMENT FOR DIRECT SUPPORT
GENERAL SUPPORT and DEPOT MAINTENANCE

| (1) | (2) | (3) | (4) | (5) | (6) | | | (7) | | | (8) | (9) | (10) | | |
|-------------|----------|-----------------------------|-------------|--------------|---------|---------------------------|-----------|------------|---------------------------|-----------|------------|--------------------------------|-------------------------------|----------|-------------|
| Act on code | SMR code | Federal stock no. | Description | Unit of meas | Qty inc | 30-Day DS Maint allowance | | | 30-Day GS Maint allowance | | | 1-yr. alw per 100 equip cntgcy | Depot maint alw per 100 equip | (a) Fig. | (b) Item No |
| | | Reference Number & Mfr Code | | Usable | cunit | (a) 1-20 | (b) 21-50 | (c) 51-100 | (a) 1-20 | (b) 21-50 | (c) 51-100 | | | | |

NOT APPLICABLE

SECTION IV. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER
 CROSS-REFERENCED TO FIGURE AND ITEM NUMBER

| Stock Number | Figure No. | Item No. | Reference No. | Mfr. Code | Figure No. | Item No. |
|---------------|------------|------------|---------------|-----------|------------|----------|
| 5330-900-8006 | 1 | 7 | 7043541 | 19200 | 1 | 1 |
| Reference No. | Mfr. Code | Figure No. | Item No. | 7043543 | 19200 | 3 |
| 7043539 | 19200 | 1 | 6 | 7674952 | 19200 | 5 |
| 7043540 | 19200 | 1 | 2 | 10940477 | 19207 | 7 |

By Order of the Secretary of the Army:

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THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

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

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

LENGTH 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

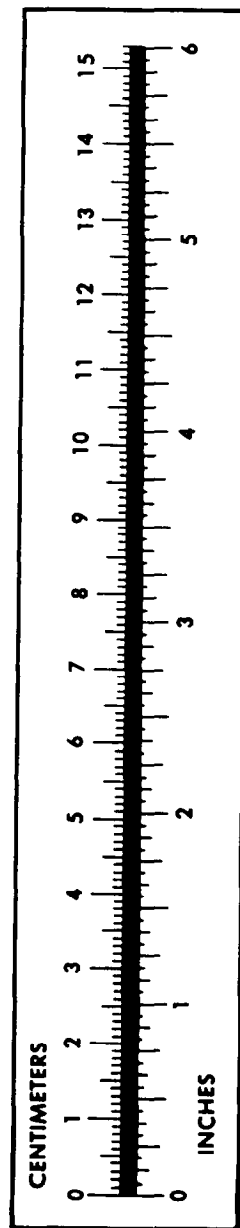
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 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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