

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT
MAINTENANCE REPAIR PARTS AND SPECIAL
TOOLS LIST

TELESCOPE PANORAMIC M12A7C

(1240-768-7260), M12A7H (1240-344-4633),

M12A7K (1240-344-4632),

M12A7Q (1240-917-6428) and

M12A7S (1240-344-6433)

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REPAIR PARTS AND SPECIAL TOOLS LIST

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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 Telescope Panoramic M12A7C, M12A7H, M12A7K, M12A7Q and M12A7S.

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 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 lists in Sections II and III.

a. *Source Maintenance and Recoverability Codes (SMR), Column 1:*

(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 items 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, measuring 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.

Code	Explanation
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, and which are stocked and supplied by the Army Comsec logistic system.
M	Repair parts, special tools and test equipment which are to be manufactured at indicated maintenance 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, Special Tools and Test Equipment which have no foreseen mortality. The indicated maintenance category requiring such repair part will attempt to obtain same through cannibalization and/or salvage. When such items are not obtainable through cannibalization or salvage, the item may 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
C	Crew or operator maintenance
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance.

(3) Recoverability Codes. The following codes will be used when the responsible Army activity desires the return of unserviceable repair parts, special tools and test equipment:

Code	Explanation
R	Applies to repair parts (assemblies and components) special tools and test equipment which are considered economically repairable at direct and general support maintenance levels. When the item

Code	Explanation
	is no longer economically repairable it is normally disposed of at the GS level. When supply considerations dictate, some of these repair 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, special tools, test equipment and assemblies which are economically repairable 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 repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T	High dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be evacuated to the depot for overhaul or final disposition. This criteria is interpreted as including items like engines even though minor adjustments/repairs are authorized at below depot level. Communications-Electronics and Missile Support Items will be repaired/overhauled only at depots.
U	Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value or 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 or the portion illustrated. 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 Equipment/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. 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.

b. The following publications pertain to Telescope Panoramic and its components:

M12A7C

TM 9-1025-200-20P Organizational Maintenance Repair Parts, and Special Tools Lists for Howitzer, Medium Towed, 155MM M114 and M114A1 and Howitzer, Medium Towed, Auxiliary Propelled 155MM M123A1.

TM 9-1055-205-20P Organizational Maintenance Repair Parts, and Special Tools Lists Truck Mounted 762MM Rocket Launcher M386.

M12A7H

TM 9-1015-203-20P Organizational Maintenance Repair Parts, and Special Tools List 105MM Towed Light Howitzer M101 and M101A1.

M12A7K

TM 9-2350-203-20P Organizational Maintenance Repair Parts, and Special Tools Lists for Howitzer Self-Propelled, Full Tracked 155MM, M44 and M44A1.

M12A7Q

TM 9-1025-200-20P Organizational Maintenance Repair Parts, and Special Tools Lists for Howitzer Medium Towed, 155MM M114 and M114A1 and Howitzer, Medium Towed, Auxiliary Propelled 155MM M123A1.

M12A7S

TM 9-1015-203-20P Organizational Maintenance Repair Parts, and Special Tools List 105MM Towed Light Howitzer M101 and M101A1.

c. To maintain disassembly sequence in this manual, a sequence number in parentheses will be displayed immediately to the right of the callout number on the illustration.

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

Code	Explanation
A	M12A7C
B	M12A7H
C	M12A7K
D	M12A7Q
E	M12A7S

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 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

Abbreviations	Explanation
aly -----	alloy
blk -----	block
brs -----	brass
cd pl-----	cadmium plate
ck -----	cork
cp -----	cone point
cres -----	corrosion resistant steel
cs -----	case
cskh-----	countersunk head
dia -----	diameter
filh-----	filister head
fl -----	flat
fp -----	flat point
fnsh-----	finish
hdls-----	headless
hex -----	hexagon
id -----	inside diameter
l -----	long
muw-----	music wire
no. -----	number
od -----	outside diameter
oxd -----	oxide

*Abbreviations**Explanation*

pld -----	plated
pnh -----	panhead
psvt -----	passivate
rbr -----	rubber
rec -----	recess
skt -----	skirt
sltd -----	slotted
stk -----	stock
stl -----	steel
thk -----	thick
unc -----	unified course thread
unf .-----	unified fine thread

7. Federal Supply Codes for Manufacturers

<i>Code</i>	<i>Manufacturer</i>
10001	Naval Ordnance Systems Command Washington, D.C. 20360
19200	Frankford Arsenal, Philadelphia, Pa.
21450	Ordnance Corps Engineering Standards, Rock Island Arsenal, Rock Island, Ill.
96906	Military Standard Promulgated by Standardization Division, Directorate of Logistic Services DSA

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-W3100, Philadelphia, Pa. 19137.

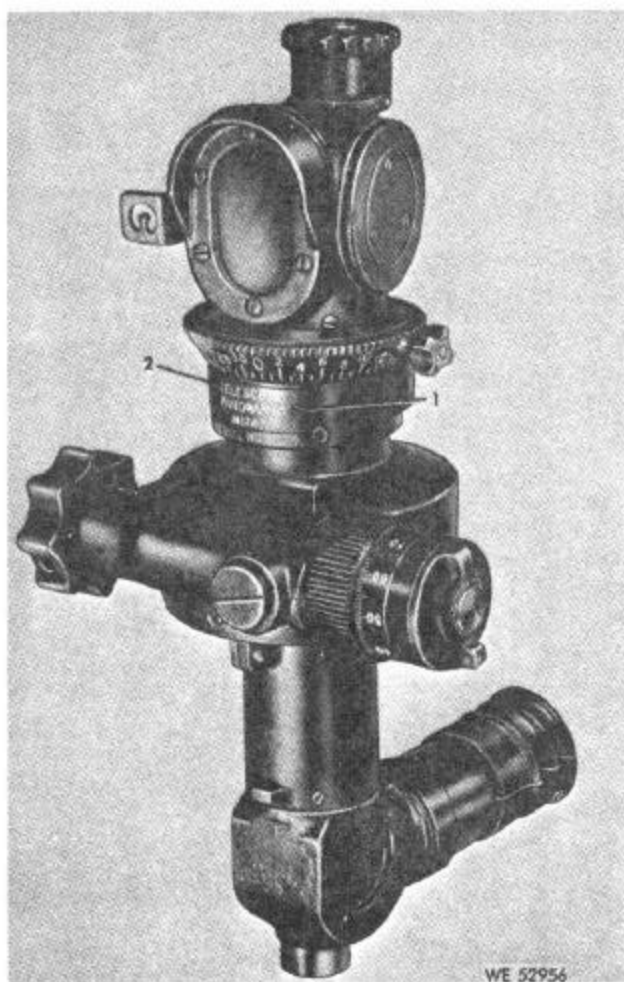


Figure 1. Telescopic Panoramic M12A7C-7668760, M12A7H-8243177, M12A7K-822975, M12A7Q-8213035, and M12A7S-8213037.