

TM 9-1240-311-34P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
[INCLUDING DEPOT MAINTENANCE REPAIR PARTS]
FOR

TELESCOPE, ARTICULATED: M127 (1240-437-1254)
AND M119 (1240-762-9333)

AND HANGER ASSEMBLY (1240-906-7945)



HEADQUARTERS, DEPARTMENT OF THE ARMY
NOVEMBER 1971

TECHNICAL MANUAL }
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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 16 NOVEMBER 1971

**DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS)
FOR
TELESCOPE, ARTICULATED: M127 (1240-437-1254) AND M119 (1240-762-9333)
AND HANGER ASSEMBLY (1240-906-7945)
Current as of 2 November 1971**

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*This manual supersedes the repair parts and special tools list portion of TM 9-1240-311-35, 25 April 1966.

Section I. INTRODUCTION

1. Scope.

This manual lists repair parts, special tools, and support equipment required for the performance of direct support, general support, and depot maintenance of the articulated telescope M127 and M119.

2. General

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

a. *Repair Parts List-Section II.* A list of repair parts authorized at the direct support, general support, and depot levels for the performance of maintenance. This list also includes parts which must be removed for the replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with parts in each group listed in figure and item number sequence.

b. *Special Tools List-Section III.* A list of special tools, test and support equipment authorized for the performance of maintenance at the direct support, general support, and depot levels.

c. *Federal Stock Number and Reference Number Index-Section IV.* A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings followed by a list, in alphabetic 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 appearance.

3. Explanation of Columns.

The following provides an explanation of columns found in the tabular listings.

a. *Source, maintenance, and Recoverability Codes (SMR).*

(1) *Source Code.* Indicates the source for the listed items. Source codes are:

Code	Explanation
P	Repair parts, special tools, and test equipment 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, measuring and diagnostic equipment, which are

Code	Explanation
	stocked and supplied by the Army COMSEC Logistic System and which are not subject to the provisions of AR 380-11.
P10	Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COMSEC support which are accountability under the provisions of AR X80-41, and which are stocked and supplied by the Army COMSEC Logistic System.
M	Repair parts, special tools and test equipment which are not procured or stocked as such in the supply system but 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 that are not procured or stocked because the failure rate is normally 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 requirement for such items will be filled by the next higher assembly or component.
X2	Repair parts, special tools and test equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage. The item may be requisitioned, with exception data, from the end item manager for immediate use.
G	Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DS and GS level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

Note: Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) *Maintenance Code.* Indicates the lowest category of maintenance authorized to install the repair parts and/or use the special tool or test equipment for each application. Capabilities of higher maintenance categories are considered equal or better. Maintenance codes are:

Code	Explanation
C	Crew/operator
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 nonrecoverable. Recoverability codes are:

Code	Explanation
R	Repair parts (assemblies and components), special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically reparable, 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 and test equipment, and assemblies which are economically reparable at DS and GS 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, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.
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. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

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. Indicates the quantity of the item used in the breakout shown in the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, e.g., shims, spacers, etc.

f. 30-Day DS,/GS Maintenance Allowances.

(1) The repair parts indicated by asterisk (*) entries in separate allowance column(s) for DS and GS represents those parts authorized for use at that category of maintenance and will be requisitioned on an "as required" basis.

(2) Allowance quantities are indicated in the special tools list section for special tools, TMDE, and other support equipment.

g. 1-Year Allowances Per 100 Equipments/Contingency Planning Purposes. No entries will appear in this column.

h. Depot Maintenance Allowances Per 100 Equipments. This column indicates that the items identified with an asterisk (*) are authorized to be requisitioned "as required."

i. Illustration. This column is divided as follows:

(1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item Number.* Indicates the callout number used to reference the item on the illustration.

4. Special Information.

a. Usable on codes are included in Column 3. Uncoded items are applicable to all models. Identifications of the usable on codes used in this publication are:

Code	Use On
A	Telescope M127
B	Telescope M119

b. Action change codes indicated in the left-hand margin of the listing page denote the following:

N-Indicates an added item.
C-Indicates a change in data.
R-Indicates a change in FSN only.

c. The telescopes M127 and M119 are components of the fire control system of Armored Reconnaissance/Airborne Assault Vehicle M551 and are contained in the following manuals:

TM 9-2350-230-12	Operator and Organizational Maintenance Manual.
TM 9-2350-230-25P/2	Organizational, DS, GS, and Depot Maintenance Repair Parts and Special Tools List.

5. How to locate Repair Parts.

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

(1) *First.* Using the table of contents determine the subfunctional group within which

the repair part belongs, i.e., engine, engine assembly, transmission, transmission assembly. This necessary since illustrations are prepared for subfunctional groups, and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the subfunctional group to which the repair part belongs.

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

(4) *Fourth.* Using the Repair Parts Listing, find the subfunctional 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 alphabetic sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* Using the Repair Part Listing, find the subfunctional 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
acs	access
actg	actuating
al aly	aluminum alloy
al stl	aluminum steel
aly	alloy
aly stl	alloy steel
amp	amperage
and	annealed
ar	as required
b	base
brs	brass
brsit	boresight
brz	bronze
cd pld	cadmium plated
chas	chassis
clp	clamp
clr	clear, color
conn	connection
cont	contact, control
cop	copper
cplg	coupling
cprsn	compression
cres	corrosion resistant steel
cs	carbon steel
cstg	casting
ctr	center
ctsk	countersunk

Abbreviations	Explanation
cushd	cushioned
cvx	convex
cyl	cylindrical
diag	diagonal
dr	drive
dwl	dowel
el	elevation
elec	electrical
ext	external
filh	fillister head
fl	flat
flh	flat head
fl intl t	flat internal tooth
fnsh	finish
fp	flat point
grvd	grooved
h	high
hd	head
hdls	headless
hdnd	hardened
hex	hexagon
hex hd	hexagon head
hex soc	hexagon socket
hlcl	helical
hsg	housing
id	inside diameter
ind	indicating
insul	insulation
intl t	internal tooth
irreg	irregular
knrld	knurled
l	long
lg	length
lim	limit
lit	litter
lk	link
lkg	locking
lt	light
ltg	lighting
lvr	lever
max	maximum
met	metal
min	minimum
mt	mount
mtg	mounting
mtlc	metallic
muw	music wire
nch	notched
nom	nominal
nyl	nylon
od	outside
ofs	offset
p	pole
perfd	perforated
peris	periscope
ph brz	phosphor bronze
pl	plain
plstc	plastic
pnh	pan head
pnl	panel
prng	purging
prot	protective
psvt fnsh	passivated finish
pwr	power
qdrnt	quadrant
r	ring
rbr	rubber

<i>Abbreviations</i>	<i>Explanation</i>
r-cl	recoil
ret	recessed
rect	rectangular
rib	ribbed
rtcl	reticle
rtng	retaining
sch	socket head
scr	screw
sft	shaft
sd	single
shld	shield
shldr	shoulder
shp	shape
skt	socket
skt dr	socket drive
sld	slotted
slv	sleeve
sp	split
spcl	special
spec	specification
splnd	splined
spr	spring
sprt	support
sq	square
stl	steel
str	straight
SW	switch
synth	synthetic

<i>Abbreviations</i>	<i>Explanation</i>
t	tooth
term	terminal
thd	thread
thk	thick
tng	tongue
tprd	tapered
vdc	volt, direct current
W	wide
wdg	winding
wht	white
wht nyl jkt	white nylon jacket
wshld	windshield
wtrprf	waterproof
xstr	transistor

7. Recommendations for Maintenance Publications Improvements.

You can improve this manual by calling attention to errors and by recommending improvements, using DA Form 2028 (Recommended Changes to Publications) or by a letter, and mailing directly to Commanding Officer, Frankford Arsenal, ATTN: AMSWE-MAF-W3100, Philadelphia, Pennsylvania 19137. A reply will be furnished directly to you.