

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

Basic Issue Items, Repair Parts, and Special Tools List
for
THERMOMETER, POWDER TEMPERATURE: M1 AND M1A1

Headquarters, Department of the Army, Washington 25, D.C.

11 June 1959

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**SECTION I
INTRODUCTION**

1. General

a. This manual lists repair parts and equipment authorized for issue to the using organization for first and second echelon maintenance of the powder temperature thermometers M1 and M1A1.

b. Section II lists basic issue items authorized for first echelon maintenance. These items include the powder temperature thermometer and the associated first echelon maintenance accessories. all of which constitute the major combination for issue to users.

c. Section III lists items authorized for second echelon maintenance.

d. For prices of Ordnance items listed herein, see the appropriate supply manual of the SM 9-2-series. Prices of items that are the responsibility of technical services other than Ordnance may be obtained from the appropriate type 2 supply manuals for those services.

e. Additional applications of items in this manual are listed in the manuals of the SM 9-3-series.

2. Requisition Notes

a. If the item requisitioned is not furnished, or if other action is necessary, the nature of the action taken by the supplying agency will be indicated by standard symbols on prescribed forms.

b. When requisitioning an item, the requesting agency will order the listed item. However, the supplying agencies will take necessary action to issue the exhaust stock item until stock is exhausted, whether it be an individual item, kit, set, or assembly.

c. A complete listing of exhausted stock items cross-referenced to the superseding item is included in the back of this manual.

3. Explanation of Columns

a. *Expendability.* This column indicates the expendability and recoverability aspects of the item. Refer to paragraph 5 for an explanation of code used in this manual.

b. *Federal Stock Number.* This column lists the Federal stock number.

*This manual supersedes DA Supply Manual ORD 7 SNL F-346, 8 April 1955, including C 1, 26 August 1955.

c. Description. This column lists the Federal item name and any additional description required for supply operations. The abbreviation "w/e" (with equipment) when used as a portion of the nomenclature indicates that the major item or major combination includes all applicable armament, equipment, accessories, and repair parts as may be pertinent to the item. The Ordnance part number is also included in parentheses in this column.

d. Unit of Issue. This column lists the unit of issue for each item, such as "oz," "lb," etc. In the case of most items, the unit of issue is "each." The unit of issue in all cases can be considered as "each" unless indicated otherwise. It is the responsibility of the supporting Ordnance unit to determine the most practical quantity to be issued, and when it is deemed more practicable, the unit pack may be issued.

e. Allowance Per Major Item or Combination (1st Echelon). This column reflects the quantity of each component included in the major combination for initial issue only.

f. Quantity Incorporated in Unit. This column lists the quantity of each listed part incorporated in the powder temperature thermometer.

g. 15-Day Maintenance Allowance Per 100 Equipments. Repair parts which may be required for performing organizational maintenance, but are not authorized for stockage in the prescribed load, are listed with no allowance factors shown. These parts are identified by an asterisk in the allowance column and are to be requisitioned as required, for immediate use.

h. Illustration. This column indicates the figure number of the illustration that depicts the item.

4. Special Information

The powder temperature thermometers M1 and M1A1 are issued on the basis of tables of organization and equipment.

5. Explanation of Code

<i>Code</i>	<i>Explanation</i>
NR----	Indicates nonexpendable, recoverable item

6. Suggestions and Recommendations

Notice of discrepancies and recommendations for additions and deletions of repair parts and special tools should be forwarded on DA Form 2028 to the Commanding Officer, Raritan Arsenal, Metuchen, N.J., ATTN: ORDJR-CPRA.

SECTION II
BASIC ISSUE ITEMS

(1) Illustration No.	(2) Federal stock No.	(3) Description	(4) Unit of issue	(5) Expendability	(6) Allowance per major item or combination (1st echelon)
		MAJOR ITEM OR MAJOR COMBINATION			
1	6685-678-5736	THERMOMETER, POWDER TEMPERATURE: M1, w/e (6785736).	ea	NR	1
1	6685-344-4603	THERMOMETER, POWDER TEMPERATURE: M1A1, w/e (7197762).	ea	NR	1
		COMPONENTS OF MAJOR COMBINATION			
		The items listed under subheadings below are issued as components of the major combination for initial issue only. Replacement thermometers will be requisitioned and issued as indicated under the heading "Major Item or Major Combination." Replacements for other items will be requisitioned separately under their individual stock numbers as indicated below.			
		THERMOMETER, POWDER TEMPERATURE: M1, w/e.			
		THERMOMETER, POWDER TEMPERATURE: M1 -----	ea	-----	1
		-			
		EQUIPMENT			
1	6685-765-1925	CASE, CARRYING: thermometer (7651925) -----	ea	-----	1
		REPAIR PARTS FOR: CASE CARRYING: THERMOMETER			
		None authorized			
		THERMOMETER, POWDER TEMPERATURE: M1A1, w/e.			
		THERMOMETER, POWDER TEMPERATURE: M1A1 -----	ea	-----	1
		-			
		EQUIPMENT			
1	6685-765-1925	CASE, CARRYING: thermometer (7651925) -----	ea	-----	1
		-			
		REPAIR PARTS FOR: CASE, CARRYING: THERMOMETER			
		None authorized			

SECTION III
ITEMS FOR ORGANIZATIONAL MAINTENANCE

(1) Illustration No.	(2) Federal stock No.	(3) Description	(4) Unit of issue	(5) Quantity incorporated in unit	(6) 15-day maintenance allowances per 100 equipments (2d echelon)
		ITEMS FOR ORGANIZATIONAL MAINTENANCE MAINTENANCE PARTS FOR: THERMOMETER, POWDER TEMPERATURE: M1 None authorized			
		THERMOMETER, POWDER TEMPERATURE: M1A1 None authorized			
		EQUIPMENT FOR: THERMOMETER, POWDER TEMPERATURE: M1			
1	6685-765-1925	CASE, CARRYING: thermometer (7651925)-----	ea	1	(*)
		THERMOMETER, POWDER TEMPERATURE: M1A1			
1	6685-765-1925	CASE, CARRYING: thermometer (7651925)-----	ea	1	(*)
		MAINTENANCE PARTS FOR EQUIPMENT FOR: CASE CARRYING: THERMOMETER None authorized			

Cross-reference of preferred item stock number to substitute exhaust item stock number

Preferred item		Substitute exhaust item	
Federal stock No.	Item	Federal stock No.	Item
6685-765-1925-----	CASE, CARRYING: thermometer-----	1290-630-3104-----	CASE.
	-		

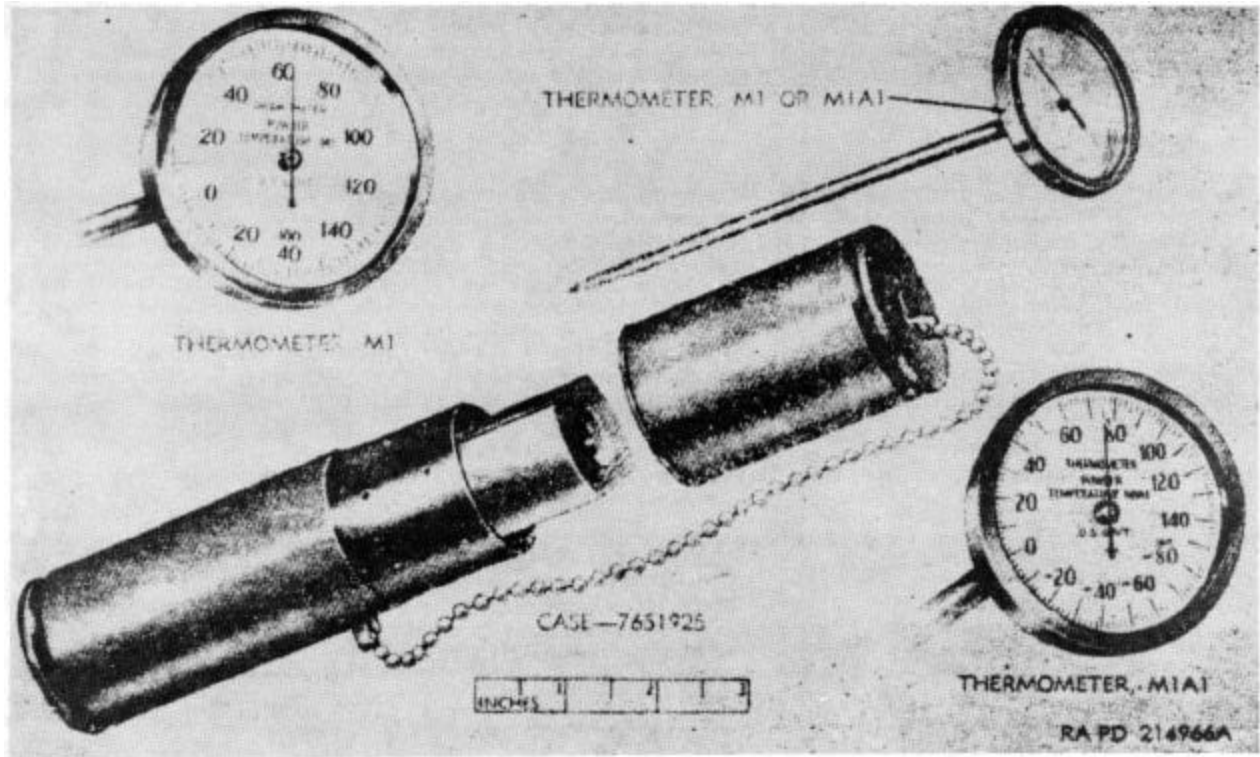


Figure 1. Thermometer, Powder Temperature, M1 (6785736) or M1A1 (7197762) with Case (7651925).

[AG 413.6 (20 May 59)]

By Order of *Wilber M. Brucker*, Secretary of the Army:

Official:

MAXWELL D. TAYLOR,
General, United States Army,
Chief of Staff.

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

Distribution:

Active Army:

ASA (2)
 Tech Stf, DA (1) except
 CofOrd (14)
 Ord Bd (2)
 USCONARC (3)
 USA Arty Bd (3)
 USA Armor Bd (3)
 USA Inf Bd (3)
 USA Air Def Bd (3)
 USA Abn & Elct Bd (3)
 USA Avn Bd (3)
 USA Arctic Test Bd (3)
 US ARADCOM (2)
 US ARADCOM Rgn (2)
 OS Maj Comd (2)
 OS Base Comd (2)
 Log Comd (3)
 MDW (1)
 Armies (3) except
 First US Army (5)
 Corps (2)
 Div (2)
 Ord Gp (2)
 Ord Bn (2) except
 TOE 9-45, 9-375 (1)

Ord Co (2) except
 TOE 9-12, 9-17, 9-22, 9-46, 9-
 47, 9-57, 9-229, 9-347, 9-367,
 9-376, 9-377 (1)
 Svc Colleges (2)
 Br Svc Sch (2) except
 USA Ord Sch (50)
 PMST Sr Div Ord Units (1)
 Gen Depots (2)
 Ord Sec, Gen Depots (5)
 Ord Depots (10) except
 Rossford Ord Depot (12)
 Anniston Ord Depot (18)
 Port of Emb (OS)(2)
 Trans Terminal Comd (2)
 Army Terminals (2)
 OS Sup Agcy (1)
 Ord PG (10)
 Ord Arsenals (5) except
 Raritan Arsenal (33)
 Frankford Arsenal (34)
 Benicia Arsenal (20)
 Ord Ammo Comd (1)
 Ft Bragg (2)
 Ft Hood (7)

Ft Bliss (9)
 Ft Sill (14)
 Ft Sam Houston (7)
 Mil Dist (1)
 USA Corps (Res)(1)
 Sectors, USA Corps (Res)(1)
 Ord Proc Dist (1)
 MAAG (1)
 Mil Mis (1)
 JBUSMC (2)
 JUSMAG (Greece)(2)
 Fld Comd, Def Atomic Spt Agcy
 (1)
 Units organized under following
 TOE's:
 3-500 (2) 6-437 (2)
 6-300 (2) 6-515 (2)
 6-315 (2) 6-517 (2)
 6-317 (2) 6-535 (2)
 6-325 (2) 6-537 (2)
 6-327 (2) 17-51 (2)
 6-415 (2) 17-55 (2)
 6-417 (2) 29-55 (2)
 6-435 (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.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

WEIGHT 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



