

**ORGANIZATIONAL, FIELD AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOL LISTS**

**TRANSIT: TELESCOPIC
1 MIN; W/ACCESSORIES**

**(KEUFFEL AND ESSER MODELS)
(MODEL P5136) - 19 POWER, FSN 6675-553-8803
(MODEL Y5136FS) - 19 POWER, FSN 6675-049-8035
(MODEL P5136) - ELECTRICAL ILLUMINATION;
16 TO 21 POWER, FSN 6675-514-4911
(MODEL Y5136FS) - ELECTRICAL ILLUMINATION;
19 POWER, FSN 6675-232-8929**



DEPARTMENTS OF THE ARMY AND THE AIR FORCE

MAY 1961

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CHANGE

No. 4

DEPARTMENT OF THE
ARMY AND THE AIR FORCE
WASHINGTON, D.C., 20 June 1973

**Organizational, Direct Support, and Depot
Maintenance Repair Parts and Special Tools Lists**

**TRANSIT, TELESCOPIC; 1 MIN; W/ACCESSORIES
(KEUFFEL AND ESSER MODEL P5136)
19-POWER, FSN 6675-553-8803;**

(MODEL Y5136FS) 19-POWER, FSN 6675-049-8035;

**(MODEL P5136) ELECTRICAL ILLUMINATION,
16 to 21 POWER, FSN 6675-514-4911**

**(MODEL Y5136FS) ELECTRICAL ILLUMINATION;
19 POWER, FSN 6675-232-8929**

TM 5-6675-225-15P, TO 49A5-5-14, 11 May 1961, is
Page ii. Paragraph 2a (3) (a) "Field maintenance"

changed as follows: is changed to read "Direct Support
Maintenance".

Page 1. Section II is superseded as follows:

**SECTION II
BASIC ISSUE ITEMS LIST AND ITEMS
TROOP INSTALLED OR AUTHORIZED
Subsection A. INTRODUCTION**

1. Scope

This section lists items required by the operator for operation of the transit.

2. General

This list is divided into the following sections:

- a. *Basic Issue Items List-Section II.* Not applicable.
- b. *Items Troop Installed or Authorized List Subsection B.* A list of items in alphabetical sequence, which at the discretion of the unit commander may accompany the transit. These items are NOT SUBJECT TO TURN-IN with the transit when evacuated.

3. Explanation of Columns

The following provides an explanation of columns in the tabular list of Basic Issue Items List, Section II, and Item Troop Installed or Authorized, Subsection B.

- a. *Source, Maintenance and Recoverability Code (SMR).* Not applicable.
- b. *Federal Stock Number.* This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. *Description.* This column indicates the Federal item name and any additional description of the item required.

- d. *Unit of Measure (U/M)*. A two 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 Furnished with Equipment (BILL)*. Not applicable.

- f. *Quantity Authorized (Items Troop Installed or Authorized)*. This column indicates the quantity of the item authorized to be used with the equipment.

Subsection B. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

(1) SMR Code	(2) Federal Stock Number	(3) Description Ref. No. & Mfr Code Usable on Code	(4) Unit of Meas	(5) Qty Auth
	6675-641-3525	PIN, adjusting	EA	2
	5120-236-2127	SCREWDRIVER, flat tip	EA	1
	5120-353-3521	WRENCH	EA	1

By Order of the Secretaries of the Army, and the Air Force:

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Distribution:

To be distributed in accordance with DA Form 12-25A (qty rqr block No. 174) organizational maintenance requirements for Surveying Equipment.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-769620/972

Changes in force:

TM 5-6675225-15P
***C3**

CHANGE

No. 3

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C 17, September 1969

**Organizational, Field and Depot Maintenance Repair Parts
and Special Tool Lists**

TRANSIT: TELESCOPIC, I MIN; W/ACCESSORIES

(KEUFFEL AND ESSER MODELS)
(MODEL P5136)-19 POWER, FSN 6675-553-8803
(MODEL Y 5136FS)-19 POWER, FSN 6675-049-8035
(MODEL P5136) ELECTRICAL ILLUMINATION;
16 TO 21 POWER, FSN 667-14 4911
(MODEL Y5136FS) ELECTRICAL ILLUMINATION;
19 POWER, FSN 6675-232-8929

Current as of 28 August 1969

TM 5-6675-225-15P, 11 May 1961, is changed as follows:

Page i. In section I. "Comments and suggestions" is changed to read "Forms and records."

Page ii. Paragraph 1e. Add note at bottom of paragraph as follows:

Note. Uncoded items on BILL are applicable to all the above models.

Page ii. Paragraph 2a (3)(a) is superseded as follows:

- C-Operator/crew (1st echelon)
- O-Organizational maintenance (2nd echelon)
- F-Field maintenance (3rd and 4th echelons)
- D--Depot maintenance (5th echelon).

Page iii. Paragraph 2a(3)g is rescinded.

Page viii. Paragraph 7 is superseded as follows:

*** This change supersedes C 2. 9 April 1919.**

7. Forms and Records

a. DA Forms and records used for equipment maintenance will be only those prescribed by TM 38-7.50.

b. 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 to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP. 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Note. All changes, additions, or deletions of Federal stock numbers or manufacturer's part numbers within this change should be appropriately reflected in the index.

Page 1. Section II is superseded as follows:

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your needs on a timely basis.**

SECTION II. BASIC ISSUE ITEMS

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION Ref No & Mfr Code Useable on Code		(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) QTY FURN WITH EQUIP	(9) ILLUSTRATION	
							(a) FIG NO.	(b) ITEM NO.
		GROUP 31-BASIC ISSUE ITEMS. MANUFACTURER INSTALLED						
PC	7920-205-0565	3100-BASIC ISSUE ITEMS, MANUFACTURER OR DEPOT INSTALLED						
		BRUSH. DUSTING. BRISTLE LENGTH 1 INCH MIL-B-43363 81349		EA		1		
PC	6675-427-3609	COVER, TRANSIT. TELESCOPE. PLASTIC G15183-167 33363		EA		1		
		DEPARTMENT OF THE ARMY TECHNICAL MANUAL: TM 5-66003		EA		1		
PC	6650-514-3531	TM 5-6675-225-15P MAGNIFIER: MONOCULAR TYPE GGG-391 81348		EA		1		
PC	6675-641-3525	PIN. ADJUSTING. 2Y INCH LG. PD251 81336		EA		2		
PC	6675-353-3512	PLATE. TRANSIT. TRIVET. PLUMB BOB P5136-154 33363		EA		1		
PC	6675-427-3146	PLATE. TRIVET G20946-169 33363		EA		1		
PC	5210-268-9617	PLUMB BOB. BRASS. 10 OZ WT GGG-P-.501 81348		EA		1		
PC	5120-236-2127	SCREWDRIVER. FLAT TIP. 3 BLADE 4 in. GGG-S-121 81348		EA		1		
PC	5120-353-3521	WRENCH. COMBINATION P5136- 165 33363		EA		1		
		GROUP 32-BASIC ISSUE ITEMS. TROOP INSTALLED						
		3200-BASIC ISSUE ITEMS. TROOP INSTALLED OR AUTHORIZED						
PC	6135-120-1020	BATTERY: DRY. 1- VOLT, 14 in. DIA: 21 in. HIGH. 1 FLAT END BA30 83642		EA				

SECTION III. REPAIR PARTS LIST

Page	Line	Action	Source codes				Federal Stock No.	Description	Unit of issue	Expand-ability	Quantity incorporated in unit	15 days or- ganizational maintenance allowance per 100 equipments	Guide quantities per 100 equipments			Illustra- tions	
			Tech- nical service	Source	Mainte- nance	Recover- ability							Field mainte- nance 15-day level	Depot mainte- nance			
														2d ech	3d ech	4 th ech	5 th ech	Fig. No.	Item No.
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o			
2	1	Ch col b and m	.....	P	.....	.....	6675-427-3609	2602.1-ACCESSORY ITEMS COVER***								5	
	2	Ch col b, e, f, & m	.....	P	.....	.....	6650-514-3531	MAGNIFIER: MONOCULAR TYPE, 3.5 X Mag Power (81348) (GG- 391								10	
	3	Ch col b and m	.....	P	.....	.....	6675-353-3512	PLATE, TRANSIT TRIVET***								5	
	4	Ch col b and m	.....	P	.....	.....	6675-427-3146	PLATE, TRIVET**								5	
	5	Ch col b, add col e; ch col m	.....	P	.....	.....	5210-268-9617	PLUMB 13OB: BRASS 10 oz wt (81348) G(.,G-P-501			1	*	*	*		10	
13	1	Delete col a: ch col f					6135-120-1020	6725.5-POWER PACK ASSEMBLY BATTERY*** (83642) BA 30									

SECTION V

Maintenance and Operating Supplies

Explanation of columns in the tabular list of maintenance and operating supplies is as follows:

- a. *Component Application (1)*. This column identifies the component application of each maintenance or operating supply item.
- b. *Federal Stock Number (2)*. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. *Description (3)*. This column indicates the item name and brief description.
- d. *Quantity Required for Initial Operation (4)*. This column indicates the quantity of each maintenance or operating supply item required for initial operation of equipment.
- e. *Quantity Required for 8 Hours' Operation (5)*. This column indicates the estimated quantities required for an average 8 hours of operation.
- f. *Notes (6)*. This column indicates informative notes keyed to data appearing in a preceding column.

MAINTENANCE AND OPERATING SUPPLIES

(1) Component application	(2) Federal stock number	(3) Description	(4) Quantity required F/initial operation	(5) Quantity required F/initial operation	(6) Notes
LEVELS TELESCOPE ASSEMBLY TRANSITS TRIPODS	(1) 9150-257-5449	OIL LUBRICATING OA1 ,4-oz spout can (2) (2) (2)	As required. As required. As required. As required.	As required. As required. As required. As required.	(1) See C9100-IL for additional data and requisitioning procedures on FSN's. (2) Use oil as prescribed for levels.

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
*General, United States Army,
Chief of Staff.*

Official:
KENNETH G. WICKHAM,
*Major General, United States Army,
The Adjutant General.*

Distribution:

To be distributed in accordance with DA Form 12-25, Sec 1 (qty rqr Block #174), Organizational maintenance requirements for Surveying equipment.

**U. S. GOVERNMENT PRINTING OFFICE: 1969-390-935/869
892-229**

TECHNICAL MANUAL
No. 5-6675-225-15P
TECHNICAL ORDER
No. 49A5-5-14

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

WASHINGTON 25, D.C., 11 May 1961

**ORGANIZATIONAL, FIELD, AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL
TOOL LISTS**

**TRANSIT: TELESCOPIC, 1 MIN; W/ACCESSORIES (KEUFFEL
AND ESSER MODELS) (MODEL P5136) 19 POWER, FSN 6675-553-8803, (MODEL
Y5136FS) 19 POWER, FSN 6675-049-8035, (MODEL P5136)
ELECTRICAL ILLUMINATION; 16 TO 21 POWER, FSN 6675-514-4911, (MODEL
Y5136FS) ELECTRICAL ILLUMINATION; 19 POWER, FSN 6675-232-8929**

SECTION		Paragraph	Page
I.	INTRODUCTION		
	General	1	ii
	Explanation of repair parts, tool lists and basic issue items	2	ii
	Explanation of maintenance allocation chart	3	vii
	Federal stock numbers and manufacturers' part numbers	4	viii
	Abbreviations	5	viii
	Federal supply code for manufacturers	6	viii
	Comments and suggestions	7	viii
II.	BASIC ISSUE ITEMS LIST		1
III.	REPAIR PARTS LISTS		
Group 26.	Accessories, Publications, Test Equipment and Tools:		
	2602.1 Accessory items		2
67.	Precision and Topographical Instruments:		
	6707 Compass		2
	6713 Levels		2
	6714 Transits		3
	6716 Tripods		8
	6720 Boxes, carrying cases .....		.9
	6725 Optical components .....		.9
	6725.1 Telescope assembly		9
	6725.3 lamp assembly		12
	6725.5 Power pack assembly		13
	FEDERAL STOCK NUMBER AND PART NUMBER INDEX.....		14
SECTION IV.	MAINTENANCE ALLOCATION CHART		16
V.	MAINTENANCE AND OPERATING SUPPLIES		20

*This manual supersedes ENG 7, 8 & 9-6600-3, 3 November 1955, including C 1, 16 June 1960.

SECTION I INTRODUCTION

1. General

a. This manual lists repair parts and basic issue items, for organizational, field and depot maintenance. It indicates the allowance factors and repair parts required to be stocked by organizational maintenance (2d echelon), as their prescribed load. It indicates the guide quantity factors to be used for initial repair parts stockage by field maintenance (3d and 4th echelons), and recommends quantities of repair parts for depot maintenance (5th echelon). Information and data contained herein serve as requisitioning reference material, and as a guide to determine stockage quantities of repair parts.

b. Price information for stock-type repair parts may be obtained from applicable DA type 2 series supply manuals.

c. Repair parts lists are arranged as follows:

- (1) Individual parts and major assemblies are listed alphabetically within the numbered functional groups.
- (2) Assembly components and subassemblies are indented and listed alphabetically under major assemblies.

d. Allowances are based on 500 hours operation per year.

e. Parts applicable only to specific end items are indicated by alphabetical letter following the nomenclature in the description column. The symbols apply as follows:

- (A) Applies to TRANSIT, Model-P5136 (Non-illuminated).
- (B) Applies to TRANSIT, Model-P5136 (Night-illuminated).
- (C) Applies to TRANSIT, Model Y5136FS (Night-illuminated).
- (D) Applies to TRANSIT, Model Y5136FS (Non-illuminated).

2. Explanation of Repair Parts, Tool Lists, And Basic Issue Items

a. *Source Codes.* This column is as follows:

- (1) *Technical service.* This column lists the basic number of the technical service assigned supply responsibility for the part. The blank spaces denote Corps of Engineers supply responsibility. General Engineer supply parts are identified by the letters GE in parentheses, following

the nomenclature in the description column. Other technical service basic numbers area

9-Ordnance Corps

10-Quartermaster Corps

11-Signal Corps

12-Adjustment General's Corps

- (2) *Source.* The selection status and source of supply for each part is indicated by one of the following code symbols:

- (a) P-applied to repair parts which are high mortality parts, procured by technical services, stocked in and supplied from the technical service depot system, and authorized for use at indicated maintenance echelons.

- (b) P1-applied to repair parts which are low mortality parts, procured by technical services, stocked only in and supplied from technical service key depots, and authorized for installation at indicated maintenance echelons.

- (c) X2-applied to repair parts which are not stocked. The indicated maintenance echelon requiring such repair parts will attempt to obtain from salvage; if not obtainable from salvage, such repair parts will be requisitioned with supporting justification through normal supply channels.

- (3) Maintenance.

- (a) The lowest maintenance echelon authorized to install or manufacture the part is indicated by the code symbols:

O-Organizational Maintenance (1st and 2d echelons).

F-Field Maintenance (3d echelon)

D-Depot Maintenance (5th echelon)

- (b) This column is blank when components of kits or sets are listed that are not applicable to the item of equipment, or when an item is source coded X1.

b. *Federal Stock Numbers.* This column lists the 11-digit Federal stock number which is used for requisitioning purposes.

c. *Description.*

- (1) The item name and a brief description of the part are shown.
- (2) A five-digit Federal supply code for manufacturers and/or other technical services is shown in parentheses followed by the manufacturer's part number. This number will be used for requisitioning purposes when no Federal stock number is indicated.
Example: (33363) P5136NI64.
- (3) Repair part quantities included in kits, sets, and assemblies, that differ from the actual quantity used in this specific end item, are listed in parentheses.
- (4) When repair parts are source coded C, the manufacturer's part number will be used for local procurement.

d. *Unit of Issue.* Where no abbreviation is shown in this column, the unit of issue is "each."

e. *Expendability.* Nonexpendable items are indicated by the letters NX. Items not indicated by NX are expendable.

f. *Quantity Incorporated in Unit.* The actual number of parts used in the application indicated is shown in this column. A zero (0) is shown when components of kits or sets are listed that are not applicable to this specific end item.

g. *Quantity Authorized.* This column lists the quantities of basic issue items authorized for issue to the equipment operator or crew.

h. *Quantity Issued With Equipment.* This column lists the quantity of basic issue items that are initially issued with each item of equipment. Items indicated with an asterisk (*) are to be requisitioned through normal supply channels as required.

i. *Guide Quantity Per 100 Equipments.*

Shown for each repair part applicable to 2d, 3d, 4th, and/or 5th echelon maintenance is either an allocation factor or an asterisk (*) allowance which indicates the following:

- (1) An allowance factor is shown for each repair part authorized for stockage for the purpose of computing the quantity

of repair parts to be stocked as the prescribed load (2d echelon). A guide quantity factor is shown for each part authorized to be stocked by field maintenance and supply support activities (3d and 4th echelons), and the number of repair parts recommended for depot maintenance (5th echelon). This factor is based on the latest mortality data for 500 hours operation per year and is the average quantity required by the various maintenance echelons to provide maintenance and supply support for 100 items of equipment for a 15-day period under average combat conditions.

- (2) The quantity of repair parts authorized for stockage is determined using the chart below. Explanation for the use of this chart is as follows.

- (a) Number of prescribed loads. Indicated in this column is the number of prescribed loads as authorized by the Major Commanders.

- (b) Number of equipments. Indicated in this column is the number of equipments each second' echelon unit commander can be authorized. The appropriate formula in (3) or j below will be used when the number of equipments being supported is higher than 10 for 3 prescribed loads, 15 for 2 prescribed loads, or 30 for 1 prescribed load.

- (c) *Allowance factor.* Indicated in this column is the number of parts allowances up to, and including 25, that may be shown in the 15-Day *Organizational Maintenance Allowances Per 100 Equipments* column of this manual.

The formulas in (3) and j below will be used for allowance factors above 25.

(d) *Authorized stockage*. Indicated in these columns are the numbers of parts that can be stocked by each second echelon unit commander. The method for determining the number of parts to be stocked is as follows:

Read from left to right from the applicable *number of equipments* and from the bottom to top from the applicable allowance factor. Where the two readings intersect indicates the

number of parts that must be on hand or on order at all times.

AUTHORIZED STOCKAGE

NUMBER OF EQUIPMENTS	10	15	30	1	1	1	1	2	2	2	2	3	3	3	4	4	4	5	5	5	5	6	6	6	7	7	7	8	
			29	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	
		14	28	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	
	9		27	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	
		13	26	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7	
			25	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	
	8	12	24	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
			23	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	
		11	22	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	6	
	7		21	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5	
		10	20	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	
			19	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	
	6	9	18	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	5	
			17	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	
		8	16	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	
	5		15	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	
			14	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	
		6	13	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	
	4		12	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	
			11	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	
		5	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	
	3		9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	
			8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
		4	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
	2		6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
			5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1		3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		3	2	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

ALLOWANCE FACTOR

NUMBER OF PRESCRIBED LOADS

EXAMPLE: If using unit has two (2) Prescribed Loads, quantity or number of equipments is four (4) and the allowance factor is ten (10) then the authorized stockage is one (1).

- (3) If the quantity of repair parts authorized for stockage or the number of equipment per prescribed load is larger than that shown in the chart, the following mathematical formula will be used:

Quantity of equipment to be supported multiplied by the listed allocation factor, divided by 100.

Fractions derived from the use of the above formula will be rounded to whole numbers as follows:

If the result is 1 or more and includes a fraction that is .5 or more, the quantity is rounded to the next higher number.

Example: If the number of equipment supported is 30 and the allowance factor for 100 equipments is 5, the following formula would be used:

$$30 \times 5 \div 100 = 1.5$$

The resulting fraction is 1.5, therefore, the stockage is 2.

If the result is 1 or more and includes a fraction of less than .5, the quantity is rounded to the next lower number. When the computed result is less than 1, organizational maintenance is authorized a minimum stockage of 1. When the computed result is less than .5, no quantity is authorized for field and depot maintenance.

Example: If the number of equipment supported is 30 and the allowance factor for 100 equipments is 28, the following formula would be used:

$$30 \times 28 \div 100 = 8.4$$

The resulting fraction is less than .5, therefore, the stockage is 8.

- (4) Repair parts required to perform organizational maintenance, which are not authorized for stockage, are identified by an asterisk and are to be requisitioned for immediate use only.

- (5) In the guide quantity columns for field maintenance, additional repair parts which may be required to perform maintenance, but not authorized for stockage, are listed without a guide quantity factor. These items are identified by an asterisk and are to be requisitioned for immediate use only.

- (6) Parts that may be required for depot maintenance, in addition to those allocated are identified by an asterisk. These parts are to be requisitioned, when required, if not obtainable from reclamation, fabrication or local procurement.

j. Organizational Maintenance 15-Day Level, 2d Echelon.

The quantity determined using the procedure described above is one prescribed load for a 15-day period. This formula will not be used when the authorized stockage is sufficient to repair one end item and/or assembly. A minimum stockage sufficient to repair one end item and/or assembly is authorized. These repair parts are identified by the following note in the description column (minimum stockage of . is authorized). The quantities contained in the prescribed load must be on hand or on order at all times. Major Commanders will determine the number of prescribed loads that second echelon units will carry. WHEN MAJOR COMMANDERS AUTHORIZE MORE THAN ONE PRESCRIBED LOAD, USE THE FOLLOWING FORMULA, instead of the one shown above. Multiply the number of equipments by the number of prescribed loads authorized, times the allowance factor, and then divide by 100.

Example:

<i>No. of equipments</i>		<i>No. of prescribed loads</i>		<i>Allowance factor</i>		<i>No. of parts authorized for stockage</i>
30	x	3	x	5	÷	100 = 4.5 = 5

k. Field Maintenance 15-Day Level, 3d and 4th Echelons.

- (1) *Third echelon.* This column lists the initial guide quantity allowance factors of repair parts authorized for initial stockage by Engineer Field Maintenance Shops (non-TOE). Engineer Field Maintenance Companies, direct

support (TOE 5-157), and similar TOE units to provide 3d echelon maintenance for Engineer equipment and to provide organizational maintenance repair parts for supported units for a 15-day period. Additional repair parts are allocated by an asterisk for immediate use only. Upon establishment of supply records, recorded demand experience will be used to compute stockage objectives on authorized repair parts. Review of stockage objectives will be performed in the time cycle prescribed by major commanders. Repair parts allocated for immediate use only may be stocked when demand experience indicates a stockage objective of at least one.

(2) *Fourth echelon.* This column lists initial guide quantity allocation factors of repair parts authorized for initial stockage by Engineer field maintenance shops (non-TOE), Engineer heavy maintenance companies (TOE 5-278), and similar TOE units to provide 4th echelon maintenance for Engineer equipment for a 15-day period. Additional repair parts are allocated by an asterisk for immediate use only. Upon establishment of supply records, recorded demand experience will be used to compute stockage objectives on authorized repair parts. Review of the stockage objectives will be performed in the time cycle prescribed by major commanders. Repair parts allocated for immediate use only may be stocked when demand experience indicates a stockage objective of at least one.

(3) *Units with TOE capability of performing partial or complete field maintenance for organic Engineer equipment.* Units organized under TOE's 5-115, 5-117, 5-129, 5-328, and similar TOE's with the TOE capability of performing partial or complete field maintenance for organic Engineer equipment will be authorized to stock 3d and/or 4th echelon repair parts only when specific agreements are made between the commander of the

designated Engineer parts supply activity, normally direct supply units (DSU), -and using unit. Parts so furnished are in addition to the prescribed load and will be adjusted as demands indicate.

(4) *Units with TOE mission to provide maintenance for Engineer equipment of supported units.* Units organized under TOE's such as 5-214 and 5-500 with the assigned mission to provide field maintenance for Engineer equipment of supported units are authorized to stock 3d and 4th echelon repair parts. These repair parts will be issued from the appropriate parts supply activity (parts depot and/or DSU). Such stockage is in addition to the prescribed load and will be adjusted as demands indicate.

l. Depot Maintenance, 5th Echelon. This column lists the quantity of repair parts recommended for stockage by Engineer Depot Maintenance Shops (non-TOE) to provide depot maintenance for 100 equipments. Additional repair parts are allocated by an asterisk, for immediate use only. Explanation of the asterisk allowance is contained in i(4) above.

m. Illustrations.

(1) Figure number. Indicates the number of the illustration in which the part is shown.

(2) Item number. Indicates the reference number used to point out the part in the illustration.

3. Explanation of Maintenance Allocation Chart

a. Functional Grouping. Items or groups of items which are functionally related and normally in proximity to each other are given numerical group designations. These numerical groupings are taken from the Corps of Engineers functional grouping indexes, and appear on the maintenance allocation chart in numerical sequence.

b. Components and Related Operation. This column contains the functional index group heading, subgroup heading, and a brief description of the part, starting with the noun name. It also lists the various maintenance operations

(service, adjust, inspect, test, replace, repair, overhaul) to be performed. Maintenance operations are defined as follows:

- (1) *Service.* To clean, to preserve, and to replenish fuel and lubricants.
- (2) *Adjust.* To regulate periodically to prevent malfunction.
- (3) *Inspect.* To determine serviceability and to detect incipient mechanical failure by scrutiny.
- (4) *Test.* To verify serviceability and to detect incipient mechanical failure by use of special equipment such as gages, meters, and so on.
- (5) *Replace.* To substitute serviceable assemblies, subassemblies, and parts for unserviceable components.
- (6) *Repair.* To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes but is not limited to, inspecting, cleaning, preserving, adjusting, replacing, welding, riveting, and straightening.
- (7) *Overhaul.* To restore an item to completely serviceable condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "inspect and repair only as necessary" (IROAN)., Maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.
- (8) *Rebuild.* To restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy: This is accomplished through the maintenance technique of complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances, and/or specifications and subsequent reassembly of the item.

c. *Echelon of Maintenance.* The symbol "X" indicates the lowest echelon at which the particular maintenance operation assigned is to be performed. Capabilities of higher echelons are considered equal or better.

This does not necessarily indicate that parts are stocked at that level. The five columns correspond to the five echelons of maintenance.

d. *Remarks.* This column is used for special instructions concerning a particular function, as to special tools or test equipment required, or to cross reference maintenance functions.

4. Federal Stock Numbers and Manufacturers Part Numbers

Listed alpha-numerically -in the back of this manual are the requisitioning numbers shown in the Federal stock number and/or description column. The alphabetical 0 is listed as a numerical 0 (zero).

Example of index sequence:

A	BX5-27	38.50
AAA	T295	3830-141-4957
A1/2X3	0124	3848 212
A1-950	1-77	389/100.2
A1A22	2530-048-7342	389/100-18
B	2815-097-5429	3895-128-7642

5. Abbreviations

amp	.....	mpere
dia	.....	diameter
ill	.....	inch
lg	.....	.long
lh	.....	left hand
mm	.....	millimeter
No	.....	number(s)
rh	.....	right hand
thd	.....	thread
w/	.....	with

6. Federal Supply Code for Manufacturers

33363Keuffel & Esser Company

7. Comments and Suggestions

Report all deficiencies as specified in AR 700-38. Submit recommendations for changes, additions, or deletions to repair parts allocation and allowance factors, and other data. Additional data on climatic and terrain conditions of operation, operational age of the equipment, and the hours operated in the period covered by item 7 of DA Form 2028 is desired.

Submit to the Commanding General, U.S. Army Engineer Maintenance Center, Corps of Engineers, ATTN: EMCDM, P. O. Box 119, Columbus 16, Ohio. Direct communication is authorized.

SECTION II. BASIC ISSUE ITEMS LIST

Source codes				FEDERAL STOCK NO.	Description	Unit of issue	EXPEN DABIL ITY	QUAN ITITY AUTH ORIZED	QUAN ITITY issued WITH EQUIP	Illus- trations	
TECH NICAL SERVICE	Source	MAINTENANCE	RECOVER ABILITY							Fig.	Item
10	P	0		6675-427-3609	GROUP 26 - ACCESSORIES, PUBLICATIONS, TEST EQUIPMENT AND TOOLS			1	1		
10	P	0		6675-252-6259	2602.1 - ACCESSORIES COVER: transit; telescope, plastic						
10	P	0		6675-353-3512	GLASS, MAGNIFYING: pocket-type, single lens, 30 mm dia, 3-1/2 power, FS GG-G391, Type 11, Class A			1	1		
10	P	0		6675-427-3146	PLATE, TRANSIT TRIVET PLUMB BOB (33363) 6482-12			1	1		
10	P	0			PLATE, TRIVET			1	1		
10	P	0			SHEATH: Plumb bob (33363) G15183-163			1	1		
					2602.2 - COMMON TOOLS						
10	P	0		7920-285-3078	BRUSH: dust, instrument lens; camel hair; rd; with 1/2 in. block; 2 x 1 in. bristle.			1	*		
	P	0		6675-641-3525	PIN: adjusting; surveying instrument;						
10	P	0		5120-236-2127	2-1/2 in. lg; 0.067 and 0.075 in. dia ends (GE)			2	*		
					SCREWDRIVER: straight tip; plastic handle; FSGGG-S-121; Type 1; Class 1; design A; light duty; Style 2; 3 in. lg blade; tip 3/16 in. wide			1	*		
10	P	0		5120-353-3521	WRENCH: spanner, transit			1	*		
12					2602.4 - PUBLICATIONS						
12					DEPARTMENT OF THE ARMY LUBRICATION ORDER LO 5-6675-225-15			1	1		
					DEPARTMENT OF THE ARMY OPERATOR, ORGANIZATIONAL FIELD AND DEPOT REPAIR PARTS MANUAL						
					TM 5-6675-225-15P			2	2		
11	P	0			6725.5 - POWER PACK ASSEMBLY						
					6135-120-1020 BATTERY: dry, 1-1/2 volt, 1-3/4 in. dia; 2-3/8 in. high; 1 flat end.			2	*		

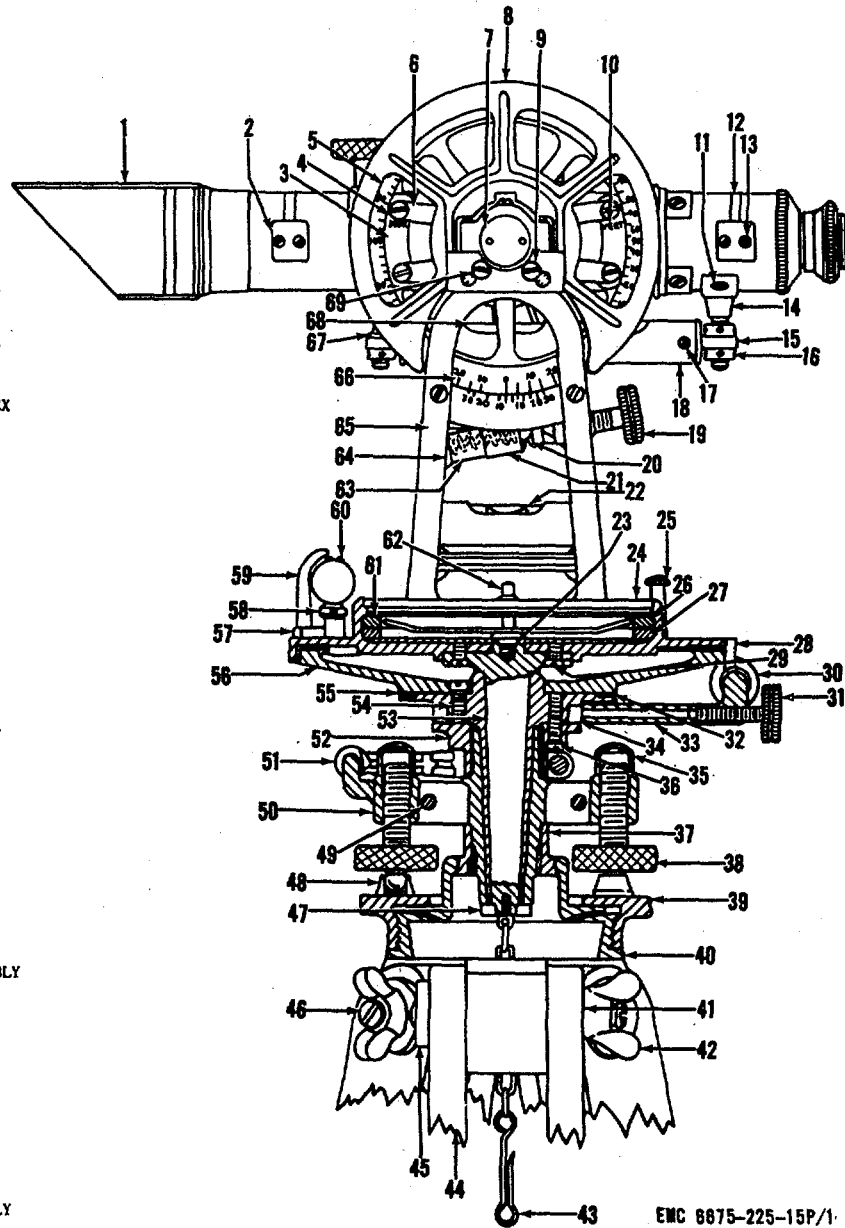
SOURCE CODES				FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF ISSUE	EXPEND-ABILITY	QUAN-TITY INCORP-ORATED IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS	GUIDE QUANTITIES PER 100 EQUIPMENTS				ILLUSTRATIONS	
TECH-NICAL SER-VICE	SOUR-CE	MAIN-TEN-ANCE	RECOV-ERABI-LITY							FIELD MAINTENANCE 15 DAY LEVEL		DEPOT MAINTENANCE		FIG. NO.	ITEM NO.
										2ND ECH	3RD ECH	4TH ECH	5TH ECH		
SECTION III. REPAIR PARTS LIST															
GROUP 26 - ACCESSORIES, PUBLICATIONS, TEST EQUIPMENT AND TOOLS															
2602.1 - ACCESSORIES															
	X2	0		6675-427-3609	COVER: transit telescope, plastic (33363) G15183-167			1	*	*	*	*			
	X2	0		6675-252-6259	GLASS, MAGNIFYING: pocket-type, single lens, 30 mm dia, 3-1/2 power, FSGG-G391, Type II class A			1	*	*	*	*			
	X2	0		6675-353-3512	PLATE, TRANSIT TRIVET "A,D" (33363) P5136-154			1	*	*	*	*			
	X2	0		6675-427-3146	PLATE, TRIVET "B, C" (33363) G20946-169			1	*	*	*	*			
	X2	0			PLUMB BOB (33363) 6482-12			1	*	*	*	*			
	X2	0			SHEATH: plumb bob (33363) G15183-163			1	*	*	*	*			
GROUP 67 - PRECISION AND TOPOGRAPHICAL															
6707 - COMPASS															
INSTRUMENTS 6707 - COMPASS															
	X2.	F			DIAL: compass, graduated "A" (33363) P5136-47			1		*	*	*	3	19	
	X2	F			DIAL: compass, graduated "U,C,D" (33363) P5136NI47			1		*	*	*	3	19	
	X2	F		6675-353-3547	GLASS ASSEMBLY: cover, compass "A,B,C" (33363) P5136-50			1		*	*	*	1	24	
	X2	F		6675-427-3159	LIFTER: compass-s needle (33363) P5136-59			1		*	*	*	3	8	
	X2	F		6675-353-3549	NEEDLE ASSEMBLY: compass "A,D" (33363) P5136-56AY			1		*	*	*	3	6	
	X2	F		6675-353-3549	NEEDLE ASSEMBLY: compass "B, C"(33363) P5136NI56AY			1		*	*	*	3	6	
	X2	F		6675-353-3550	PIVOT: compass needle (33363) P5136-58			1		*	*	*	1	23	
	X2	F		6675-427-3096	PLATE: cover, compass "D" (33363) G15183-50			1		*	*	*	1	24	
	X2	F		6675-427-3098	RING, RETAINING: horizontal vernier"D"(33363) G15183-52			1		*	*	*	1	32	
	X2	F			RING, RETAINING: horizontal vernier "A, B,C" (33363) P5136-52			1		*	*	*	1	32	
	X2	F		6675-427-3097	RING, SPACING: compass cover glass plate "D" (33363) G15183-51			1		*	*	*			
	X2	F		6675-427-3155	RING, SPRING: compass dial "B,C" (33363) G20946-40			1		*	*	*	1	26	
	X2	F		6675-353-3546	RING, VERNIER, COMPASS (33363) P5136NI49					*	*	*	1	61	
	X2	F		5305-53-3545	SCREW, MACHINE: fastening, compass dial (33363) P5136-48			4		*	*	*			
	X2	F		5305-353-3551	THUMBSCREW: compass needle litter (33363) P5136-60			1		*	*	*	1	25	
	X2	F		6675-371-4271	VARIATION INDEX: compass (33363) P5136-51			1		*	*	*	1	27	
6713 - LEVELS															
	X2 F			6675-427-3111	GUARD ASSEMBLY: vernier plate vial "B,C,D" (33363) G1518371AY			1		*	*	*			
	X2	F			GUARD: vernier plate vial "B,C,D" (33363) 15183-7.1			1		*	*	*	1	59	
	X2	F			SCREW, MACHINE: guard, vial "B,C,D"(33363) GS1183-71A			1		*	*	*			
	X2	F		6675-353-3561	GUARD ASSEMBLY: vernier plate vial "A" (33363) P5136-71AY			1		*	*	*			
	X2	F			GUARD: vernier plate vial "A" (33363) P5136-71			1		*	*	*	1	59	

X2	F	5305-353-3560	SCREW, MACHINE: guard, vial "A" (33363) P5136-TA	1	*	*	*		
X2	F	6675-427-3040	LEVEL ASSEMBLY: telescope. "C,D" (33363) G15183-119AY	1	*	*	*		
X2	F	5305-353-3409	SCREW, LDCK: level assembly "C,D" (33363) G15183-122	4	*	*	*	1	17
X2	F	6675-353-3498	TUBE: telescope bubble "C,D" (33363) G15183-119	1	*	*	3	1	18
X2	F	6675-353-3492	TUBE END: bubble vial "C,D" (33363) n15,83-121	2	*	*	*	1	15
P1	F	5210-353-3408	VIAL, LEVEL: telescope bubble C,D" (33363) G15183-120	1	*	*	25	1	68
X2	F	6675-353-3490	LEVL ASSEMBLY: telescope. @ "A" (33363) P5136-119AY	1	*	*	*		
X2	F	5305-3,53-3493	SCREW, LOCK: level assembly "A,B" (33363) P5136-122	4	*	*	*	1	17
X2	F	6675-353-3498	TUBE: telescope bubble "A,B" (33363) P5136-119	1	*	*	3	1	18
X2	F	6675-353-3492	TUBE END: bubble vial "A,B" (33363) P5136-121	2	*	*	*	1	15
P1	F	5210-274-2862	VIAL, LEVEL: telescope bubble "A" (33363) P5136-120	1	*	*	25	1	68
P1	F	5210-353-3408	VIAL, LEVEL: telescope bubble ."B" (33363) P5136NI120	1	*	*	25	1	68
X2	F	6675-353-3490	LEVEL ASSEMBLY: telescope "B" (33363) P5136NII19AY	1	*	*	*		
(Same as LEVEL ASSEMBLY, Stock No. (33363) P5136-119AY, except where individual components are annotated)									
X2	F	6675-353-3552	LEVEL ASSEMBLY: vernier (33363) P5136NI61AY	2	*	*	*	1	22
X2	F	6675-374-2343	TUBE ASSEMBLY: level, vernier plate (33363) I5136-61-62	2	*	*	6		
X2	F	5210-353-3427	VIAL, LEVEL: vernier plate (33363) G15183-63	2	*	*	50		
6714 - TRANSITS									
X2	D	6675-353-3484	BALL. HALF, LEVELING "A,B" (33363) P5136-11	1			*	1	37
X2	D	6675-633-6722	BOX ASSEMBLY : vernier plate spring(33363) P5136-41AY	1			*		
X2	D	6675-427-3076	CAP (33363) P5136-26	1			*	1	64
X2	D	6675-353-3529	PLUNGER (33363) P5136-25	1			*	1	20
X2	D	5305-353-3541	SCREW, FASTENING: spring box, vernier plate (33360) G15183-42	2			*	3	9
X2	D	5340-254-1381	SPRING, HELICAL, COMPRESSION: copper, 1-1/2 in. lg (33363,) P5136-24	1			*	1	63
X2	D	6675-353-3540	SPRING BOX: vernier plate plunger (33363) P5136-41	1			*	1	28
X2	D	5305-353-3528	THUMBSCREW: spring box (33363) P5136-23	1			*	1	30
X2	F	6675-427-3104	BRACKET ASSEMBLY: vernier plate level "B,C,D" (33363) P5136-64AY	1	*	*	*		
X2	D	6675-427-3109	BRACKET: vernier plate level "B,C,D" (33363) P5136-69	1			*	1	57
X,2	D	5310-353-3558	NUT; ADJUSTING: vernier plate level "B,C,D" (33363) P5136-647	2			*	1	58
X2	D	6675-427-3103	POST,: vernier plate level, fixed --end "B,C, D" (33363) G15183-64	1			*		
X2	D	5305-427-3105	SCREW, BUBBLE POST: adjustable end "B ,C, D" (33363) G1518365	1			*		
X2	D	6675-427-3057	BUSHINGS: stadia index "D" (33363) G15183-150	4			*	1	5
X2	D	6675-371-4273	CAP: leveling screw . "A,B" (33363) PS136-9A	4			*	1	35
X2	D	6675-427-3076	CAP: lower clamp (33363) P5136-26	1			*	1	64
X2	D	6675-353-3518	CENTER, INNER: alidade "A" (33363) P5136-16	1			*	1	53
X2	D	6675-427-3064	CENTER, INNER: alidade "C,D" (33363) G15183-16	1			*	1	53
X2	D		CENTER, INNER: alidade B" (33363) P5136NI16	1			*	1	53
X2	D		CENTER, OUTER: telescope "A" (33363) P5136-18	1			*	1	55
X2	D	6675-371-4274	CENTER, OUTER: telescope "W" (33363) P5136NI18	1			*	1	55

SOURCE CODES				FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF ISSUE	EXPEND-ABILITY	QUAN-TITY INCORP-ORATED IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS	GUIDE QUANTITIES PER 100 EQUIPMENTS				ILLUSTRATIONS	
TECH-NICAL SER-VICE	SOUR-CE	MAIN-TEN-ANCE	RECOV-ERABI-LITY							FIELD MAINTENANCE 15 DAY LEVEL		DEPOT MAINTENANCE		FIG. NO.	ITEM NO.
										2ND ECH	3RD ECH	4TH ECH	5TH ECH		
					6714 - TRANSITS (cent)										
	X2	D		6675-427-3068	CENTER, OUTER: telescope "D" (33363) G15183-18			1				*		1	55
	X2	D		6675-427-3147	CENTER, OUTER: telescope "C" (33363) G20946-18							*		1	55
	X2	F		6675-353-3506	CHAIN ASSEMBLY: plumb bob inner center (33363) P5136-14-15			1				*		1	43
	X2	F		6675-390-3234	CIRCLE ASSEMBLY, VERTICAL: w/stadia "C,D" (33363) G20946-90AY			1				*		1	66
	X2	D		5305-259-0204	CLAMP: leveling head, lower "D" (33363) 015183-21			1				*		1	51
	X2	D		5340-353-3526	CLAMP: leveling head, lower "A,B" (33363) P5136-21			1				*		1	51
	X2	F		6675-353-3534	CLAMP ASSEMBLY: vernier plate (33363) P5136-33AY			1				*			
	X2	F		6675-427-3080	CLAMP: vernier plate (33363) G20946-33			1		*	*	*			
	X2	F		6675-353-3535	GIB, CLAMP: vernier plate (33363) P5136-34			1		*	*	*		1	34
	X2	F		5315-363-3537	PIN, STRAIGHT, HEADLESS: leaded nickel silver, 1-23/32 in. lg. 1/8 in. dia (33363) P5136-36			1		*	*	*		1	33
	X2	F		5305-353-3536	THUMBSCREW: vernier plate (33363) P5136-35			1		*	*	*		1	31
	X2.	D		6675-427-3150	CLAMP TELESCOPE: lower leveling head "C" (33363) G20946-21			1				*		1	51
	X2	D		6675-427-3069	COLLAR: center clamp, outer (33363) P5136-19			1				*		1	52
	X2	D		6675-353-3575	DIAL, CONTROL: vernier "A,B" (33363) P5136-90AY			1				*		1	66
	X2	D		6675-427-3055	FRAME: stadia index "D" (33363) 015183-147			1				*		1	6
	X2	D			FRAME: stadia index "C" (33363) G20946-147			1				*		1	6
	X2	F		6675-353-3423	GEAR, ASSEMBLY: compass variation (33363) P5136-53AY			1		*	*	*			
	X2	D			HOUSING: pinion, variation (33363) P5136-54			1				*		3	17
	X2	D			PINION, VARIATION (33363) P5136-53			1				*		1	62
	X2	D		6675-427-3099	SCREW, MACHINE: compass variation pinion housing (33363) G15183-55			2				*		3	18
	X2	D			GLASS, VERNIER "A," (33363) P5136-38C (Used on TRANSIT, Serial No's 126318 and up)			2				*		3	12
	X2	D		6675-353-3539	GLASS, VERNIER "A,B" (33363) P5136-38 (Used on TRANSIT, Serial No's thru 126317)			2				*		3	12
	X2	D		6675-427-3085	GLASS PLATE: horizontal vernier "D" (33363) G15163-38			2				*		3	12
	X2	D		6675-427-3153	GLASS PLATE: horizontal vernier "C" (33363) G20946-38			2				*		3	12
	X2	D			GUARD:- vertical circle (33363) P5136-93			1				*		1	8
	X2	D			HEAD, L.EVELING "C" (33363) G20946-8			1				*		1	50
	X2	D		6675-353-3429	HEAD, LEVELING "D" (33363) 015183-8			1				*		1	50
	X2	D		6675-371-4272	HEAD, LEVELING "A. B" (33363) P5136-81 *			1				*		1	50
	X2	D		6675.427-3086	HOLDER: vernier glass plate, 1h "" (33363) G15183-39			2				*			
	X2	D		6675-427-3087	HOLDER: vernier glass plate, rh "D" (33363) G15183-39A			2				*			
	X2	D			INDEX, STADIA: horizontal "C" (33363) 020946-148			1				*		1	3
	X2	D		6675-353-3412	INDEX, STADIA: horizontal "D" (33363) G15183-148			1				*		1	3
	X2	D			INDEX, STADIA: vertical "C" (33363) 020946-149			1				*		1	10

INDEX TO PARTS, FIGURE 1

Reference Number	Functional Group	Item Name
1	6725.1	SHADE
2	6725.1	SIGHT
3	6714	INDEX
4	6714	SCREW
5	6714	SCREW
5	6714	BUSHING
6	6714	FRAME
7	6714	ROSETTE
8	6714	GUARD
9	6714	SCREW
10	6714	INDEX
11	6725.1	SCREW
12	6725.1	SIGHT
13	6725.1	SCREW
14	6725.1	SUPPORT
15	6713	TUBE END
16	6725.1	NUT
16	6725.1	THUMBSCREW
17	6713	SCREW
18	6713	TUBE
19	6725.1	THUMBSCREW
20	6714	PLUNGER
20	6725.1	PLUNGER
21	6725.1	CLAMP
22	6713	LEVEL ASSEMBLY
23	6707	PIVOT
24	6707	PLATE
24	6707	GLASS ASSEMBLY
25	6707	THUMBSCREW
26	6707	RING
27	6707	VARIATION INDEX
28	6714	SPRING BOX
29	6714	SCREW
30	6714	THUMBSCREW
30	6725.1	THUMBSCREW
31	6714	THUMBSCREW
32	6707	RING
33	6714	PIN
34	6714	GIB
35	6714	CAP
36	6714	SCREW
37	6714	BALL
37	6714	NUT
38	6714	THUMBSCREW
39	6716	PLATE
40	6714	PLATE
41	6716	WASHER
42	6716	NUT
43	6714	CHAIN ASSEMBLY
44	6716	LEG
45	6716	SCREW
46	6716	SCREW
47	6714	NUT
48	6714	LEVELING SHOE
49	6714	SCREW
50	6714	HEAD
51	6714	CLAMP
52	6714	COLLAR
53	6714	CENTER
54	6714	SCREW
55	6714	CENTER
56	6714	VERNIER ASSEMBLY
57	6714	BRACKET
58	6714	NUT
59	6713	GUARD
60	6714	NUT
61	6707	RING
62	6714	PINION
63	6714	SPRING
63	6725.1	SPRING
64	6714	CAP
64	6725.1	CAP
65	6714	POST ASSEMBLY
66	6714	DIAL
66	6714	CIRCLE ASSEMBLY
67	6725.1	SUPPORT
68	6713	VIAL
69	6714	SCREW



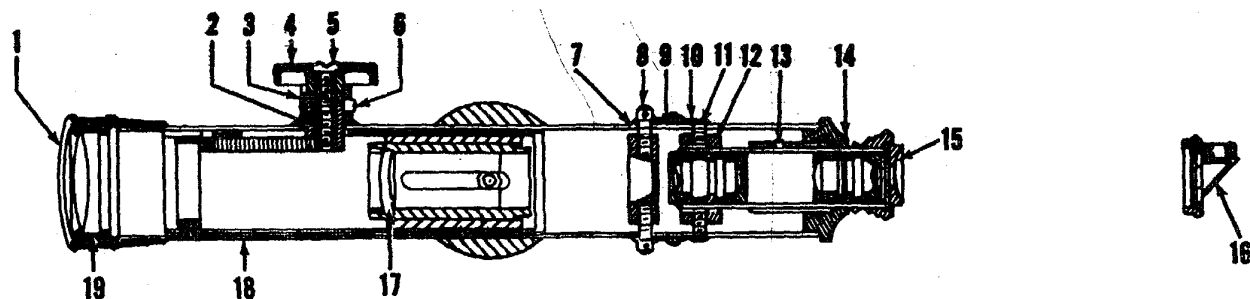
EMC 8675-225-15P/1

Figure 1. Transit with Cross Sectional View of Leveling Head.

SOURCE CODES				FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF ISSUE	EXPEND- ABILITY	QUAN- TITY INCORP- ORATED IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS	GUIDE QUANTITIES PER 100 EQUIPMENTS				ILLUSTRATIONS	
TECH- NICAL SER- VICE	SOUR- CE	MAIN- TEN- ANCE	RECOV- ERABI- LITY							FIELD MAINTENANCE 15 DAY LEVEL		DEPOT MAINTENANCE		FIG. NO.	ITEM NO.
										2ND ECH	3RD ECH	4TH ECH	5TH ECH		
6714 - TRANSITS (cont)															
	X2	D		6675-353-3413	INDEX, STADIA: vertical "D" (53363) G15183-149			1						1	10
	X2	D		6675-353-3513	LEG, TRIVET (33363) P5136-155			3					*		
	X2	D		6675-353-3478	LEVELING SHOE "A,B" (33363) P5136-10			4					*	1	48
	X2	D		6675-427-3032	LEVELING SHOE "C,D" (33363) G15183-10			4					*	1	48
	X2	D		6675-353-3593	MAGNIFIER ASSEMBLY: vernier scale "B ,C " (33363) P5136NI166AY			1					*		
	X2	D		5310-353-3558	NUT, ADJUSTING: vernier plate, end "A" (33363) P5136-67			2					*	1	58
	X2	D		5310-427-3037	NUT, BALL SEAT: outer center "C,D" (33363) G15183-11			1					*	1	37
	X2	D		5310-353-3557	NUT, PLAIN, CAP: vernier plate (33363) P5136-66			4					*	1	60
	X2	D		5310-3533570	NUT, PLAIN, HEXAGON: standard bearing (33363) P5136-86			1					*		
	X2	D		5310-353-3523	NUT, PLAIN, ROUND: center (33363) P5136-17			1					*	1	47
	X2	D		6675-371-4269	PLATE: horizontal limb vernier "A" (33363) P5136-32			1					*	3	16
	X2	F			PLATE, SHIFTING: center "C, D" (33363) G15183-12			1					*	1	40
	X2	F			PLATE, SHIFTING: center "A,B" (33363) P5136-12			1		*	*		*	1	40
	X2	F			PLATE, VERNIER "D" (33363) G15183-32			1		*	*		*	3	16
	X2	F			PLATE, VERNIER "C" (33363) G20946-32			1		*	*		*	3	16
	X2	F			PLATE, VERNIER "B" (33363) P5136NI32			1		*	*		*	3	16
	X2	F		6675-353-3529	PLUNGER: lower clamp (33363) P5136-25			1		*	*		*	1	20
	X2	F		6675-353-3556	POST: vernier plate level, adjustable end "A" (33363) P5136-65			1		*	*		*		
	X2	D		6675-353-3554	POST: vernier plate level, fixed end "A" (33363) G15183-64AY			1					*		
	X2	D		6675-353-3576	POST ASSEMBLY: vernier plate (33363) P5136-92AY			1					*	1	65
	X2	D		5310-281-2509	NUT, PLAIN, ROUND (33363) P5136-92A			4					*		
	X2	D		6675-353-3576	POST ASSEMBLY: vernier plate (33363) P5136-92			2					*		
	X2	D		6675-353-3511	PRISM, TELESCOPE: w/colored glass (33363) P5136-152			1					5	2	16
	X2	D		6650-353-3579	ROSETTE: telescope axle (33363) P5136-96			1					*	1	7
	X2	D		6675-427-3078	SCREW, FASTENER: horizontal limb "C, D" (33363) G15183-30			4					*	1	54
	X2	D		6675-427-3088	SCREW, FASTENING: vernier glass plate holder "D" (33363) G15183-40			40					*		
	X2	F		6675-427-3110	SCREW, FASTENING: vernier plate level bracket "B ,C ,D" (33363) G15183-70			2		*	*		*	3	1
	X2	F			SCREW, LOCK: stadia index "C" (33363) G20946-151			4		*	*		*	1	4
	X2	F		6675-42T-3058	SCREW, LOCK: stadia index "D" (33363) G15183-151			4		*	*		*	1	4
	X2	F		5305-353-3525	SCREW, MACHINE: clamp collar (33363) P5136-20			4		*	*		*	1	36
	X2	D		5305-353-3532	SCREW, MACHINE: horizontal limb "A,B"(33363) P5136-30			4					*	1	54
	X2	D		5305-353-5333	SCREW, MACHINE: horizontal limb (33363) P5136-31			4					*		
	X2	D		6675-427-3077	SCREW, MACHINE: horizontal vernier "C,D" (33363) G15183-29			4					*		
	X2	F		5305-353-3531	SCREW, MACHINE: horizontal vernier fastening. "A,B" (33363) P5136-29			4		*	*		*		

X2	F		SCREW, MACHINE: nut lock, center (33363) P5136-17A	1		*	*	*		
X2	D		SCREW, MACHINE: stadia index "C" (33363) G20946-150	4				*	1	5
X2	D		SCREW, MACHINE: stadia index frame"C" (33363) G20946-153	2				*	1	69
X2	D	6675-427-3060	SCREW, MACHINE: stadia index frame"D" (33363) G15183-153	2				*	1	69
X2	D	5305-353-3573	SCREW, MACHINE: standard assembly (33363) P5136-89	4				*	3	4
X2	D	5305-353-3569	SCREW, MACHINED standard bearing (33363) PJ136-85	1		*	*	*		
X2	D	5305-353-3572	SCREW, MACHINE: standard cap (33363) P5136-88	4		*				
X2	F		SCREW, MACHINE: strap "A" (33363) P5136-38E (Used on TRANSIT, Serial No's 126318 and up)	*						
X2	D	5305-281-5465	SCREW, MACHINE: tangent screw tension(33363) P5136-21A	1				*		
X2	F	5305-174-4723	SCREW, MACHINE: tightening, leveling screw "A,B,C" (33363) P5136-8A	4		*	*	*	1	49
X2	F	5305-353-3538	SCREW, MACHINE: vernier plate (33363) P5136-37	4		*	*	*	1	29
X2	F	5305-353-3510	SCREW, MACHINE: vernier shade "A,B,C" (33363) P5136-146A	4		*	*	*		
X2	F	5305-353-3507	SCREW, MACHINE: vernier shade bracket . mounting "A,B,C" (33363) P5136-145A	2		*	*	*		
X2	F	3305-353-3578	SCREW, MACHINE: vertical circle guard (33363) P5136-94	2		*	*	*	1	9
P	F	5305-353-3500	SETSCREW: half ball, brass headless, slot drive, flat point, 8-36 thd size, 1/4 in. lg (33363) P5136-13	1		*	*		5	
X2	F	6675-353-3508	SHADE ASSEMBLY, VERNIER "A,B,C" (33363) P5136-145AY	2		*	*	*		
X2	F		BRACKET: vernier "A,B,C" (33363) P5136-145	2		*	*	*	3	3
X2	F	6675-353-3509	SHADE, VERNIER "A,B,C" (33363) P5136-146	2		*	*	*	3	2
X2	D	5340-254-1381	SPRING, HELICAL, COMPRESSION: lower clamp (33363) P5136-24	1				*	1	63
X2	D	5340-249-2151	SPRING, HELICAL, COMPRESSION: vernier plate and level tension (33363) P3136-68	4			*	*		
X2	D		STANDARD ASSEMBLY: telescope "D" (33363) G15183-80AY	1				*	3	5
X2	O	6675-393-6228	STANDARD ASSEMBLY: telescope "C" (33363) G20946-80AY	1				*	3	5
X2	D		STANDARD ASSEMBLY: telescope mounting, 1h "D" (33363) G13183-81AY	1				*	3	15
X2	D		STANDARD ASSEMBLY: telescope mounting, 1h "C" (33363) G20946-81AY	1				*	3	15
X2	O	6650-353-3565	STANDARD ASSEMBLY: telescope mounting, 1h "A" (33363) P5136-81AY	1				*	3	15
X2	D	6675-393-6229	STANDARD ASSEMBLY: telescope mounting, 1h "B" (33363) P5136NI81AY	1				*	3	15
X2	D	6675-353-3563	STANDARD ASSEMBLY: telescope mounting, 1h "A" (33363) P5136-80AY	1				*	3	5
X2	D	6675-393-6231	STANDARD ASSEMBLY: telescope mounting, 1h "B" (33363) P5136NI80AY	1				*	3	5
X2	F	5305-353-3571	STARTER SCREW: standard cap. (33363) P5136-87	2		*	*	*		
X2	D		STRAP: vernier glass "A" (33363) P5136-380 (Used on TRANSIT, Serial Nos 126318 and up)	1				*		
X2	D	5305-353-3574	THUMBSCREW: leveling "A, " (33363) P5136-9	4				*	1	38
X2	D	5305-427-3119	THUMBSCREW: leveling "C,D" (33363) G15183-9	4				*	1	38
X2	D	5305-353-3527	THUMBSCREW: transit clamp (33363) P5136-22	1				*		

Figure 2. Telescope for Model P5136, Non-Illuminated.



EMC 6675-225-15P/2

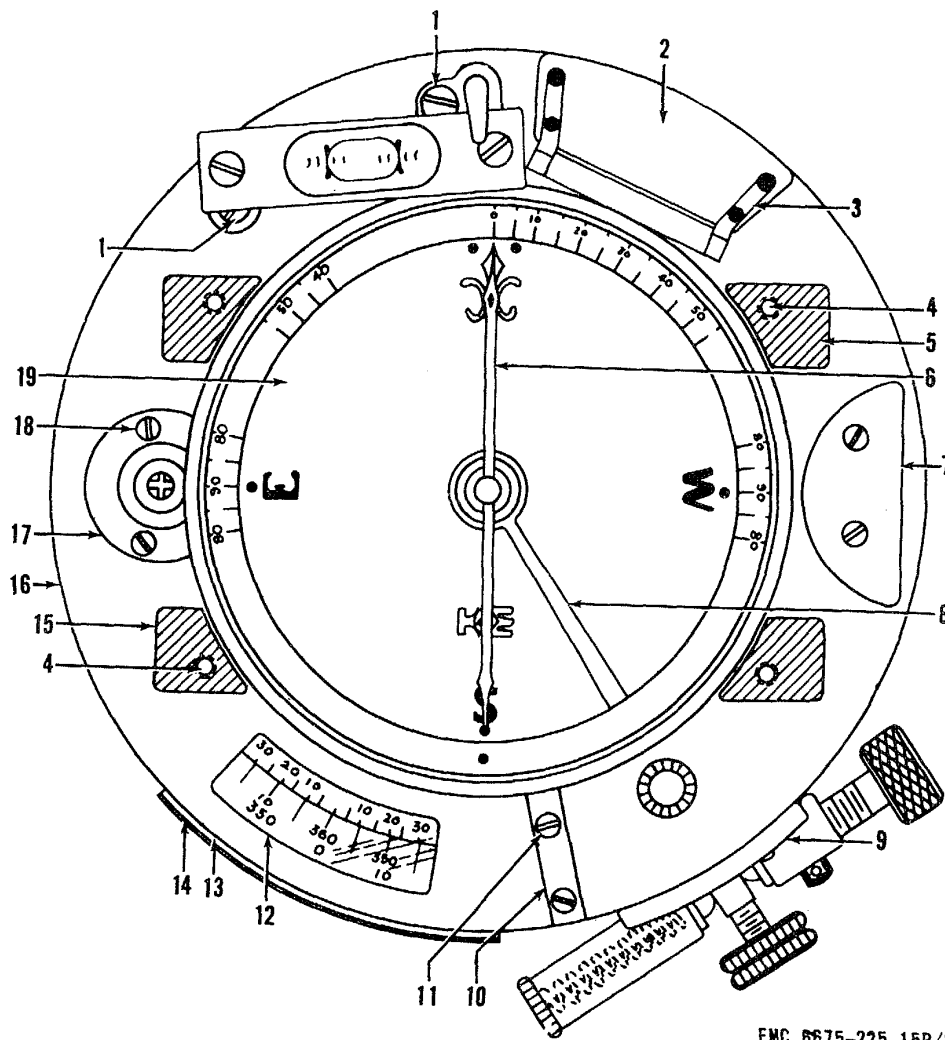
Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	6725.1	CAP	6	6725.1	SCREW	11	6725	SCREW	16	6714	PRISM
2	6725.1	PINION	7	6725.1	RETICULE AY	12	6725	RING	17	6725	LENS
3	6725.1	HOUSING	8	6725.1	SCREW	13	6725	SCREW	18	6725.1	BODY ASSEMBLY
4	6725.1	HEAD	9	6725.1	SHUTTER	14	6725	SPIRAL	19	6725	LENS ASSEMBLY
5	6725.1	SCREW	10	6725.1	SHUTTER	15	6725	CAP	20		

SOURCE CODES				FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF ISSUE	EXPEND-ABILITY	QUAN-TITY INCORPORATED IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS				GUIDE QUANTITIES PER 100 EQUIPMENTS		ILLUSTRATIONS			
TECH-NICAL SER-VICE	SOUR-CE	MAIN-TEN-ANCE	RECOV-ERABI-LITY						FIELD MAINTENANCE 15 DAY LEVEL		DEPOT MAINTENANCE		FIG. NO.	ITEM NO.				
									2ND ECH	3RD ECH	4TH ECH	5TH ECH						
					6714 -.TRANSITS (cont)													
	X2	D		6675-353-3530	VERNIER ASSEMBLY: horizontal limb "B,C" (33363) P5136NI27AY			1					*	1	56			
	X2	D			VERNIER ASSEMBLY: horizontal limb "A,D" (33363) P5136-27AY			1						*	1	56		
					6716 - TRIPODS													
	X2	0		6675-371-4276 6675-371-4268	CAP, DUST: transit (33363) 5172C			1	*	*	*	*	*					
	X2	0			HEAD: tripod (33363) G15183-1			1	*	*	*	*	*	*				
	P1	0			LEG, EXTENSION (33363) P3.180-8-6			3	*	*	*	*	*	75				

P1	0	6675-353-3425	LEG, TRANSIT TRIPOD (33363) G15163-6	3	*	*	*	75	1	44
X2	0	5310-353-3420	NLT, PLAIN WING: transit leg screw (33363) 015183-3	3	*	*	*	*	1	42
X2	0		PLATE, HEAD: tripod (33363) G15183-7	1	*	*	*	*	1	39
X2	0	5305-353-3418	SCREW, CAP, HEXAGON HEAD: transit log (33363) 015183-2	1	3	*	*	1	45	
X2	0	5310-353-3422	SCREW, MACHINE: tripod screw lock (33363) G15183-5	3	1	*	*	1	46	
X2	0	5310-353-3421	WASHER, LOCK: tripod screw (33363) 015183-4	3	*	*	*	*	1	41
6720 - BOXES, CARRYING CASES										
X2	0	6675-390-3236	CASE, CARRYING "B,C," (33363) P5136N 170	1	*	*	*	*		
X2	0	6675-712-1231	CASE, CARRYING CASE, TRANSIT: "A,D" (33363) P5136-161	1	*	*	*	*		
X2	0	6675-712-1230	CASE: level vials (33363) P5136-160	1	*	*	*	*		
X2	0	6675-353-3516	CASE STORAGE: leather (33363) G15183-158	1	*	*	*	*		
6725 - OPTICAL COMPONENTS										
X2	0	6675-427-30521	CAP: eyepiece (33363) 015183-144	1	*	*	*	*	2	15
X2	F	6675-353-3504	EYEPIECE ASSEMBLY: telescope (33363) P5136-133AY	1		*	*	*		
X2	D	5105-353-3505	SCREW, MACHINE: spiral guide, telescope eyepiece (33363) P5136-134	1			*	*	2	13
X2	D		SPIRAL: eyepiece end ring (33363) P5136-133	1			*	*	2	14
X2	D	6675-353-3514	HOLDER: eyepiece reflector cap (33363) P5136-156	1			*	*		
X2	D		LENS: telescope focusing (33363) P5136-116	1				8	2	17
X2	D	6675-353-3481	LENS ASSEMBLY: telescope (33363) P5136-106AY	1				8	2	19
X2	D		LENS, OBJECTIVE: telescope (33363) P5136-106A	1				8		
X2	D	6675-353-3482	MOUNT: objective lens (33363) P5136-106B	1						
X2	D	6675-353-3501	RING, CENTERING: eyepiece (33363) P5136-130	1				*	2	12
X2	D		SCREW, MACHINE: eyepiece centering ring (33363) P5136-131	4				*	2	11
X2	D	6675-353-3503	SHUTTER: telescope eyepiece (33363) P5136-132	4				*	2	10
6725.1 - TELESCOPE ASSEMBLY										
X2	D		BODY ASSEMBLY: telescope "D" (33363) G15183-104AY	1				*	2	18
X2	D		AXLE: telescope "C,D" (33363) P5136-95	1				*		
X2	O		CAP: eyepiece (33363) P5136-144	1	See Group 6725	See Group	6725	See Group 6725		
X2	D		DRAW: telescope "B,C,D" (33363) P5136-109	1						
X'	D	6675-353-3504	EYEPIECE ASSEMBLY, TELESCOPE (33363) P5136-133AY	1	See Group 6725	See Group	6725	See Group 6725		
X2	F	6675-353-3486	GEAR ASSEMBLY WORM: pinion, telescope focusing (33363) P5136-110AY	1			*	*		
X2	D	6675-353-3485	HEAD: telescope focusing pinion (33363) P5136-110	1				*	2	4
X2	D		HOUSING: telescope pinion (33363) P5136-113	1				*	2	3
X2	D		PINION: housing (33363) P5136-112	1				*	2	2
X2	D	5305-353-3487	SCREW, MACHINE: pinion (33363) P5136-111	1				*	2	5
X2	D		HEAD: telescope focusing pinion, "C,D"(33363) P5136-105	1				*		
X2	D		HOUSING: telescope pinion (33363) P5136-114	1				*		
X2	D		LENS: telescope focusing - (33363) P5136-116	1	See Group 6725	See Group	6725	See Group 6725		
X2	D	6675-353-3481	LENS ASSEMBLY: telescope (33363) P5136-106A	1	See Group 6725	See Group	6725	See Group 6725		
X2	D		MOUNT: focusing lens (33363) P5136-117	1				*		
X2	D	6675-427-3042	RETICLE ASSEMBLY: telescope "D" (33363) G15183-127AY	1				*	2	7

INDEX TO PARTS, FIGURE 3

Reference Number	Functional Group	Item Name
1	6714	SCREW
2	6714	SHADE
3	6714	BRACKET
4	6714	SCREW
5	6714	STANDARD AY
6	6707	NEEDLE ASSEMBLY
7	6725.5	CONTACT
8	6707	LIFTER
9	6714	SCREW
10	6725.5	PLATE
11	6725.5	SCREW
12	6714	GLASS
13	6725.3	INSULATOR BSHG
14	6725.3	CONTACT
15	6714	STANDARD AY
16	6714	PLATE
17	6714	HOUSING
18	6714	SCREW
19	6707	DIAL



EMC 8675-225-15P/3

Figure 3. Compass.

SOURCE CODES				FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF ISSUE	EXPEND-ABILITY	QUAN-TITY INCORP-ORATED IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS	GUIDE QUANTITIES PER 100 EQUIPMENTS				ILLUSTRATIONS	
TECH-NICAL SER-VICE	SOUR-CE	MAIN-TEN-ANCE	RECOV-ERABI-LITY							FIELD MAINTENANCE 15 DAY LEVEL		DEPOT MAINTENANCE		FIG. NO.	ITEM NO.
										2ND ECH	3RD ECH	4TH ECH	5TH ECH		
6725.1 - TELESCOPE ASSEMBLY (cont)															
	X2	D		3305-353-3496	SCREW, MACHINE: reticle adjusting (33363) P3136-128			4					*	2	8
	X2	D		6675-353-3499	SHUTTER, ADJUSTING SCREW (33363) P5136-129			4					*	2	9
	X2	D		6675-35a-3434	RETICLE ASSEMBLY: telescope "C" (33363) G20946-127 (Same as RETICLE ASSEMBLY, Stock No. 6675-427-3042)			1					°	2	7
	X2	B		6650-353-3497	RETICLE ASSEMBLY: telescope "A" 433363) P5136-127 (Same as RETICLE ASSEMBLY, Stock No. 6675-427-3042)			1					*	2	7
	X2	D		6675-711-1774	RETICLE ASSEMBLY: telescope -"B" (33363) P5136NI127 (Same as RETICLE ASSEMBLY, Stock No. 6675-427-3042)			1					*	2	7
	X2	D			RING, CENTERING: eyepiece (33363) P5136-130			1	See Group 6725	See Group	6725	See Group 6725	*	2	12
	X2	D			RING, LOCK: lens "A,B,C" (33363) P5136-118			1					*		
	X2	D		5305-353-3496	SCREW, FASTENING: telescope bubble support (33363) P5136-126			4					*	1	11
	X2	D			SCREW, MACHINE: eyepiece centering ring (33363) P5136-131			4	See Group 6725	See Group	6725	See Group 6725	*	2	11
	X2	D		6675-353-3503	SHUTTER: telescope eyepiece (33363) P5136-132			4	See Group 6725	See Group	6725	See Group 6725	*	2	10
	X2	D		6675-353-3494	SUPPORT, TELESCOPE BUBBLE: eyepiece end (33363) P5136-124			1					*	1	14
	X2	D		6675-353-3495	SUPPORT, TELESCOPE BUBBLE: objective end (33363) P5136-125			1					*	1	67
	X2	D			BODY ASSEMBLY: telescope "C" (33363) G20946-104AY (Same as BODY ASSEMBLY, Stock No. (33363), G15183-104AY, except where individual components are symbolized)			1					*	2	18
	X2	D			BODY ASSEMBLY: telescope "A" (33363) P5136-104AY (Same as BODY ASSEMBLY, Stock No. (33363) G15183-104AY, except where individual components are symbolized)			1					*	2	18
	X2	D			BODY ASSEMBLY: telescope "B" (33363) P5136NI104AY (Same as BODY ASSEMBLY, Stock No. (33363) G15183-104AY, except where individual components are symbolized)			1					*	2	18
	X2	O		6675-427-3035	CAP: telescope (33363) P5136-107			1	*	*	*	*	*	2	1
	X2	F		6675-353-3582	CLAMP ASSEMBLY: telescope (33363) P5136-98AY			1		*	*	*	*		
	X2	D		6675-427-3076	CAP (33363) P5136-26			1					*	1	64
	X2	D		6650-353-3581	CLAMP: telescope (33363) P5136-98			1					*	1	21
	X2	D		6675-353-3529	PLUNGER (33363) P.136-25			1					*	1	20
	X2	D		5340-254-1381	SPRING, HELICAL COMPRESSION: clamp(33363) P5136-24			1					*	1	63
	X2	D		5305-353-3528	THUMBSCREW: spring box (33363) P5136-23			1					*	1	30
	X2	D		5305-353-3503	THUMBSCREW: telescope clamp (33363) P5136-99			1					*	1	19
	X2	D		6675-427-3041	NUT, ADJUSTING: telescope bubble "C,D" (33363) G15183-123			3					*	1	16

SOURCE CODES				FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF ISSUE	EXPEND-ABILITY	QUAN-TITY INCORP-ORATED IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS	GUIDE QUANTITIES PER 100 EQUIPMENTS				ILLUSTRATIONS	
TECH-NICAL SER-VICE	SOUR-CE	MAIN-TEN-ANCE	RECOV-ERABI-LITY							FIELD MAINTENANCE 15 DAY LEVEL		DEPOT MAINTENANCE		FIG. NO.	ITEM NO.
										2ND ECH	3RD ECH	4TH ECH	5TH ECH		
6725.1 - TELESCOPE ASSEMBLY (cont)															
	X2	D		5305-353-3591	SCREW, MACHINE: fastening, sight "B,C" (33363) P5136NI160			4					*	1	13
	X2	D			SCREW, MACHINE: pinion lock (33363) P5136-115			1					*	2	6
	X2	0		6675-353-3483	SHADE: telescope lens (33363) P5136-108			1					*	*	1
	X2	D		6675-353-3590	SIGHT, TELESCOPE: front "B,C" (33363) P5136NI159			1					*	1	2
	X2	D		6675-353-3589	SIGHT, TELESCOPE: rear "B,C" (33363) P5136NI158			1					*	1	12
	X2	D		5305-374-2341	THUMBSCREW: telescope bubble adjusting "A,B" (33363) P5136-123			3					*	1	16
	X2	D			WASHER, FLAT: front and rear sight "B,C" (33363) P5136NI160A			4					*		
	X2	D		5310-353-3580	WASHER: telescope clamp (33363) P5136-97			1					*		
6725.3 - LAMP ASSEMBLY															
	X2	0			CONTACT, ELECTRICAL: illumination strap "B" (33363) P5136NI154AY			1	*		*	*	*		
	X2	0		6675-353-3585	CONTACT, ELECTRICAL: vernier plate light light "B" (33363) P5136NI154			1	*		*	*	*	3	15
	X2	0		5305-353-3586	SCREW, MACHINE: contact strip, vernier plate illuminating lamp "B" (33363) P5136NI154A			2	*		*	*	*		
	X2	0		6675-427-3158	HOUSING: transit lamp "B,C" (33363) P5136NI52			1	*		*	*	*		
	X2	0		6675-353-3594	KNOB: vernier magnifier, knurled "B,C" (33363) P5136NI167			1	*		*	*	*	8	
	X2	0		5355-667-9481	KNOB, RHEOSTAT "B,C" (33363) G20946-165A			1	*		*	*	*	8	
	P	0		6240-155-7864	LAMP, INCANDESCENT: 3 volt, 0.190 amp current, 11/32 in. high (GE) "B,C" (33363) G20946-163			2	5	6	*	*	*	100	
	X2	0			RHEOSTAT "B,C" (33363) C20RX			1	1	*	*	*	*	8	
	X2	0		6675-377-4889	ROD: reticle illuminating light "B,C" (33363) P3136NI168			1	*		*	*	*		
	X2	0			SCREW, MACHINE: rheostat "B,C" (33363) P5136NI165B			4	*		*	*	*		
	X2	0			SCREW, MACHINE: vernier light insulating strip "B,C" (33363) P5136NI155A			2	*		*	*	*		
	X2	0		6675-353-3515	SHADE, REFLECTOR: illuminating cross hair "A,D" (33363) P5136-157			1	*		*	*	*		
	X2	0		6675-427-3133	STRIP ASSEMBLY: illumination contact "C" (33363) G20946-154AY			1	*		*	*	*		
	X2	0		6675-353-3585	CONTACT, ELECTRICAL: vernier plate light "C" (33363) P5136NI154			1	*		*	*	*	3	14
	X2	0		5305-353-3586	SCREW, MACHINE: contact strip, vernier plate illuminating "C" (33363) P5136NI154A			2	*		*	*	*		
	X2	0		6675-427-3135	STRIP ASSEMBLY: insulating "B,C" (33363) G20946-155AY			1	*		*	*	*		
	X2	0		5970-374-2344	INSULATOR BUSHING PLATE: vernier light "B,C" (33363) P5136NI155			1	*		*	*	*	3	13

6725.5- POWER PACK ASSEMBLY													
11	P	0	6135-120-1020	BATTERY: dry, 1-1/2 volt. 13/4 in. dia 2-3/8 in. high, 1 flat end "B,C"			2	5	6	*	250		
	X2	0	6675-353-3592	CASE BATTERY "B,C" (33363) P5136NI164			1	*	*	*	15		
	X2	0		CONTACT, ELECTRICAL: battery "B,C" (33363) P5136NI39			1	*	*	*	15	3	7
	X2	0		CONTACT ASSEMBLY, ELECTRICAL: battery "BC" (33363) P5136NI39AY			1	*	*	*	15		
	X2	0	6675-353-3588	PLATE: wire. cover "B,C" (33363) P5136NI157			1	*	*	*	*	3	10
	X2	0	5305-272-5029	SCREW, MACHINE "B,C" (33363) P5136NI39A			2	*	*	*	*		
	X2	0 - -	5305-281-6361	.SCREW, MACHINE wire plate -B,C" (33363) P5136NI156			2	*	*	*	*	3	11

FEDERAL STOCK NUMBER AND PART NUMBER INDEX

TM 5-6675-225-15P

NUMBER	CODE	PAGE	NUMBER	CODE	PAGE	NUMBER	CODE	PAGE	NUMBER	CODE	PAGE	NUMBER	CODE	PAGE
C20RX	33363	12	G20946-149	33363	4	P5136-145	33363	7	P5136-68	33363	7	P5136NI6IAY	33363	3
G15183-1	33363	8	G20946-150	33363	7	P5136-145A	33363	7	P5136-69	33363	3	P5136NI80AY	33363	7
G15183-10	33363	6	G20946-151	33363	6	P5136-145AY	33363	7	P5136-71	33363	2	P5136NI81AY	33363	7
G15183-104AY	33363	9	G20946-153	33363	7	P5136-146	33363	7	P5136-71A	33363	3	P5180-8-6	33363	8
G15183-11	33363	6	G20946-154AY	33363	12	P5136-146A	33363	7	P5136-71AY	33363	2	5120-236-2127		1
G15183-119	33363	3	G20946-155AY	33363	12	P5136-152	3363	6	P5136-8	33363	4	5120-353-3521		1
G15183-119AY	33363	3	G20946-163	33363	12	P5136-154	33363	2	P5136-BA	33363	7	5172C	33363	7
G15183-12	33363	6	G20946-165A	33363	12	P5136-155	33363	6	P5136-80AY	33363	7	5210-274-2862		3
G15183-120	33363	3	G20946-169	33363	2	P5136-156	33363	9	P5136-81AY	33363	7	5210-353-3408		3
G15183-121	33363	3	G20946-18	33363	4	P5136-157	33363	12	P5136-85	33363	7	5210-353-3427		3
G15183-122	33363	3	G20946-21	33363	4	P5136-16	33363	3	P5136-86	33363	6	5305-174-4723		7
G15183-123	33363	11	G20946-32	33363	6	P5136-160	33363	9	P5136-87	33363	7	5305-259-0204		4
G15183-127AY	33363	9	G20946-33	33363	4	P5136-161	33363	9	P5136-88	33363	7	5305-272-5029		13
G15183-144	33363	9	G20946-38	33363	4	P5136-17	33363	6	P5136-89	33363	7	5305-281-5465		7
G15183-147	33363	4	G20946-40	33363	2	P5136-17A	33363	7	P5136-9	33363	7	5305-281-6361		13
G15183-148	33363	4	G20946-8	33363	4	P5136-18	33363	3	P5136-9A	33363	3	5305-353-3409		3
G15183-149	33363	6	G20946-80AY	33363	7	P5136-19	33363	4	P5136-90AY	33363	4	5305-353-3418		9
G15183-150	33363	3	G20946-81AY	33363	7	P5136-20	33363	6	P5136-92	33363	6	5305-353-3487		9
G15183-151	33363	6	G20946-90AY	33363	4	P5136-21	33363	4	P5136-92A	33363	6	5305-353-3493		3
G15183-153	33363	7	P5136-10	33363	6	P5136-21A	33363	7	P5136-92AY	33363	6	5305-353-3496		11
G15183-158	33363	9	P5136-104AY	33363	11	P5136-22	33363	7	P5136-93	33363	4	5305-353-3498		11
G15183-16	33363	3	P5136-105	33363	9	P5136-23	33363	3,11	P5136-94	33363	7	5305-353-3500		7
G15183-163	33363	1,2	P5136-106A	33363	9	P5136-24	33363	3,7	P5136-95	33363	9	5305-353-3505		9
G15183-167	33363	2	P5136-106AY	33363	9			11	P5136-96	33363	6	5305-353-3507		7
G15183-18	33363	4	P5136-107	33363	11	P5136-25	33363	3,6	P5136-97	33363	12	5305-353-3510		7
G15183-2	33363	9	P5136-108	33363	12			11	P5136-98	33363	11	5305-353-3525		6
G15183-21	33363	4	P5136-109	33363	9	P5136-26	33363	3,11	P5136-98AY	33363	11	5305-353-3527		7
G15183-29	33363	6	P5136-11	33363	3	P5136-27AY	33363	7	P5136-99	33363	11	5305-353-3528		3,11
G15183-3	33363	9	P5136-110	33363	9	P5136-29	33363	6	P5136NI104AY	33363	11	5305-353-3531		6
G15183-30	33363	6	P5136-110AY	33363	9	P5136-30	33363	6	P5136NI119AY	33363	3	5305-353-3532		6
G15183-32	33363	6	P5136-111	33363	9	P5136-31	33363	6	P5136NI120	33363	3	5305-353-3536		4
G15183-38	33363	4	P5136-112	33363	9	P5136-32	33363	6	P5136NI127	33363	11	5305-353-3538		7
G15183-39	33363	4	P5136-113	33363	9	P5136-33AY	33363	4	P5136NI154	33363	12	5305-353-3541		3
G15183-39A	33363	4	P5136-114	33363	9	P5136-34	33363	4	P5136NI154A	33363	12	5305-353-3545		2
G15183-4	33363	9	P5136-115	33363	12	P5136-35	33363	4	P5136NI154AY	33363	12	5305-353-3551		2
G15183-40	33363	6	P5136-116	33363	9	P5136-36	33363	4	P5136NI155	33363	12	5305-353-3560		3
G15183-42	33363	3	P5136-117	33363	9	P5136-37	33363	7	P5136NI155A	33363	12	5305-353-3569		7
G15183-5	33363	9	P5136-118	33363	11	P5136-38	33363	4	P5136NI156	33363	13	5305-353-3571		7
G15183-50	33363	2	P5136-119	33363	3	P5136-38C	33363	4	P5136NI157	33363	13	5305-353-3572		7
G15183-51	33363	2	P5136-119AY	33363	3	P5136-380	33363	7	P5136NI158	33363	12	5305-353-3573		7
G15183-52	33363	2	P5136-12	33363	6	P5136-38E	33363	7	P5136NI159	33363	12	5305-353-3574		7
G15183-55	33363	4	P5136-120	33363	3	P5136-41	33363	3	P5136NI16	33363	3	5305-353-3578		7
G15183-6	33363	9	P5136-121	33363	3	P5136-41AY	33363	3	P5136NI160	33363	12	5305-353-3583		11
G15183-63	33363	3	P5136-122	33363	3	P5136-47	33363	2	P5136NI160A	33363	12	5305-353-3586		12
G15183-64	33363	3	P5136-123	33363	12	P5136-48	33363	2	P5136NI164	33363	13	5305-353-3591		12
G15183-64AY	33363	6	P5136-124	33363	11	P5136-50	33363	2	P5136NI1658	33363	12	5305-353-5333		6
G15183-65	33363	3	P5136-125	33363	11	P5136-51	33363	2	P5136NI166AY	33363	6	5305-374-2341		12
G15183-7	33363	9	P5136-126	33363	11	P5136-52	33363	2	P5136NI167	33363	12	5305-427-3105		3
G15183-70	33363	6	P5136-127	33363	11	P5136-53	33363	4	P5136NI168	33363	12	5305-427-3119		7
G15183-71	33363	2	P5136-128	33363	11	P5136-53AY	33363	4	P5136NI170	33363	9	5310-281-2509		6
G15183-71A	33363	2	P5136-129	33363	11	P5136-54	33363	4	05136NI18	33363	3	5310-353-3420		9
G15183-71AY	33363	2	P5136-13	33363	7	P5136-56AY	33363	2	P5136NI27AY	33363	8	5310-353-3421		9
G15183-8	33363	4	P5136-130	33363	9,11	P5136-58	33363	2	P5136NI32	33363	6	5310-353-3422		9
G15183-60AY	33363	7	P5136-131	33363	9,11	P5136-59	33363	2	P5136NI39	33363	13	5310-353-3523		6
G15183-81A1	33363	7	P5136-132	33363	9,11	P5136-60	33363	2	P5136NI39A	33363	13	5310-353-3557		6
G15183-9	33363	7	P5136-133	33363	9	P5136-61-62	33363	3	P5136NI39AY	33363	13	5310-353-3558		3,6
G20946-104AY	33363	11	P5136-133AY	33363	9	P5136-64AY	33363	3	P5136NI47	33363	2	5310-353-3570		6
G20946-127	33363	11	P5136-134	33363	9	P5136-65	33363	6	P5136NI49	33363	2	5310-353-3580		12
G20946-147	33363	4	P5136-14-15	33363	4	P5136-66	33363	6	P5136NI52	33363	12	5310-427-3037		6
G20946-148	33363	4	P5136-144	33363	9	P5136-67	33363	3,6	P5136NI56AY	33363	2	5315-353-3537		4

FEDERAL STOCK NUMBER AND PART NUMBER INDEX

TM 5-6675-225-15P

NUMBER	CODE	PAGE	NUMBER	CODE	PAGE	NUMBER	CODE	PAGE	NUMBER	CODE	PAGE	NUMBER	CODE	PAGE
5340-249-2151		7	6675-353-3486		9	6675-353-3540		3	6675-371-4276		8	6675-427-3086		4
5340-254-1381		3,7,-	6675-353-3490		3	6675-353-3546		2	6675-374-2343		3	6675-427-3087		4
		11	6675-353-3492		3	6675-353-3547		2	6675-377-4889		12	6675-427-3088		6
5340-353-3526		4	6675-353-3494		11	6675-353-3549		2	6675-390-3234		4	6675-427-3096		2
5355-667-9481		12	6675-353-3495		11	6675-353-3550		2	6675-390-3236		9	6675-427-3097		2
5970-374-2344		12	6675-353-3498		3	6675-353-3552		3	6675-393-6228		7	6675-427-3098		2
6135-120-1020		1,13	6675-353-3499		13	6675-353-3554		6	6675-393-6229		7	6675-427-3099		4
6240-155-7864		12	6675-353-3501		9	6675-353-3556		6	6675-393-6231		7	6675-427-3103		3
6482-12	33363	1,2	6675-353-3503		9,11	6675-853-3561		2	6675-427-3032		6	6675-427-3104		3
6650-353-3497		11	6675-353-3504		9	6675-353-3563		7	6675-427-3035		11	6675-427-3109		3
6650-353-3565		7	6675-353-3506		4	6675-353-3575		4	6675-427-3040		3	6675-427-3110		6
6650-353-3579		6	6675-353-3508		7	6675-353-3576		6	6675-427-3041		11	6675-427-3111		2
6650-353-3581		11	6675-353-3509		7	6675-353-3582		11	6675-427-3042		9	6675-427-3133		12
6675-252-6259		1,2	6675-353-3511		6	6675-353-3585		12	6675-427-3052		9	6675-427-3135		12
6675-353-3412		4	6675-353-3512		1,2	6675-353-3588		13	6675-427-3055		4	6675-427-3146		1,2
6675-353-3413		6	6675-353-3513		6	6675-353-3589		12	6675-427-3057		3	6675-427-3147		4
6675-353-3423		4	6675-353-3514		9	6675-353-3590		12	6675-427-3058		6	6675-427-3150		4
6675-353-3425		9	6675-353-3515		12	6675-353-3592		13	6675-427-3060		7	6675-427-3153		4
6675-353-3429		4	6675-353-3516		9	6675-353-3593		6	6675-427-3064		3	6675-427-3155		2
6675-353-3434		11	6675-353-3518		3	6675-353-3594		12	6675-427-3068		4	6675-427-3158		12
6675-353-3478		6	6675-353-3529		3,6,	6675-371-4268		8	6675-427-3069		4	6675-427-3159		2
6675-353-3481		9			11	6675-371-4269		6	6675-427-3076		3,11	6675-427-3609		1,2
6675-353-3482		9	6675-353-3530		8	6675-371-4271		2	6675-427-3077		6	6675-633-6722		3
6675-353-3483		12	6675-353-3534		4	6675-371-4272		4	6675-427-3078		6	6675-641-3525		1
6675-353-3484		3	6675-353-3535		4	6675-371-4273		3	6675-427-3080		4	6675-711-1774		11
6675-353-3485		9	6675-353-3539		4	6675-371-4724		3	6675-427-3085		4	6675-712-1230		9
												6675-712-1231		9
												7920-285-3078		1

**SECTION IV
MAINTENANCE ALLOCATION CHART**

Maintenance Allocation Chart

Functional Group	Components and related operation	Echelons of maintenance					Remarks
		1	2	3	4	5	
A	TRANSIT: HORIZONTAL CIRCLE, 2 VERNIERS, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION, 5-INCH DIAMETER; VERTICAL, CIRCLE, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION; TELESCOPE, ERECTING EYEPIECE, INTERNAL FOCUSING, 19-POWER, TELESCOPE LEVEL VIAL; WITH 18 ACCESSORIES; KEUFFEL AND ESSER MODEL P5136 (FSN 6675-553-8803)						
B	TRANSIT: HORIZONTAL CIRCLE, 2 VERNIERS, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION, 4/ to 5S-INCH DIAMETER; VERTICAL CIRCLE 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION; 9¼-INCH LONG TELESCOPE, ERECTING EYEPIECE INTERNAL FOCUSING, 16- TO 21-POWER, TELESCOPE LEVEL -VIAL; ELECTRICAL ILLUMINATION; COMPASS; WITH 18 ACCESSORIES; MIL SPEC-T-20196, TYPE 1; KEUFFEL AND ESSER MODEL P-5136 (FSN 6675-514-4911)						
C	TRANSIT: HORIZONTAL CIRCLE, 2 VERNIERS, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION, 5-INCH DIAMETER; VERTICAL CIRCLE, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION; TELESCOPE, ERECTING EYEPIECE, INTERNAL FOCUSING, 9-POWER, TELESCOPE LEVEL VIAL, WITH 18 ACCESSORIES; KEUFFEL AND ESSER MODEL Y5136FS (FSN 6675-049-8035)						
D	TRANSIT: HORIZONTAL CIRCLE, 2 VERNIERS, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION, 5-INCH DIAMETER; VERTICAL CIRCLE, 1-MINUTE READING, 30-MINUTE SMALLEST GRADUATION; 9-INCH LONG TELESCOPE, ERECTING EYEPIECE, INTERNAL FOCUSING, 19-POWER, TELESCOPE LEVEL VIAL; ELECTRICAL ILLUMINATION: COMPASS; WITH 17 ACCESSORIES: KEUFFE AND ESSER MODEL Y-5136FS (FSN 6675-232-8929)						

Functional Group	Components and related operation	Echelons of maintenance					Remarks
		1	2	3	4	5	
26	ACCESSORIES, PUBLICATIONS, TEST EQUIPMENT AND TOOLS						
2602.1	ACCESSORIES						
	Accessories						
	Replace -----	.X					
2602.2	COMMON TOOLS						
	Tools, Common						
	Replace -----	.X					
2602.4	PUBLICATIONS						
	Publications						
	Replace -----	X					
67	PRECISION AND TOPOGRAPHICAL INSTRUMENTS						
6707	COMPASS						
	Needle Assembly, Compass						
	Replace -----			X			
	Glass Assembly, Compass Cover						
	Replace -----			X			
	Dial, Scale Compass						
	Replace -----			X			
	Pivot, Needle, Compass						
	Replace -----			X			
6713	LEVELS						
	Level Assembly, Compass						
	Adjust -----	X					
	Replace -----			X			
	Repair -----			X			
	Level Assembly, Telescope						
	Adjust -----	.X					
	Replace -----			X			
	Repair -----			X			
6714	TRANSITS						
	Transit						
	Service -----	X					External
	Adjust -----	X					External
	Repair -----					X	
	Overhaul -----					X	
	Bracket Assembly, Vernier Plate						
	Replace -----			X			
	Repair -----					X	
	Bracket Assembly, Vernier Plate Clamp						
	Replace -----			X			
	Repair -----					X	
	Center Assembly, Base Plate						
	Replace -----					X	
	Repair -----					X	
	Chain Assembly, Plumb Bob						
	Replace -----				X		
	Circle, Stadia						
	Replace -----				X		
	Circle Set, Vertical						
	Replace -----				X		
	Repair -----					X	
	Clamp, Vernier Plate						
	Replace -----				X		

Functional Group	Components and related operation	Echelons of maintenance					Remarks
		1	2	3	4	5	
6716	Clamp Assembly, Leveling						
	Replace -----			X			
	Repair -----					X	
	Plate, Horizontal Vernier						
	Replace -----			X			
	Repair -----					X	
	Reflector Assembly, Vernier						
	Replace -----			X			
	Repair -----					X	
	Screw Assembly, Leveling Head						
	Replace -----			X			
	Repair -----					X	
	Shaft and Gear Assembly						
	Replace -----			X			
	Repair -----					X	
	Standard, Adjustable, Transit						
	Replace -----					X	
	Standard, Stationary, Transit						
	Replace -----					X	
	Stud Assembly, Vertical Vernier						
	Replace -----			X			
	Repair -----					X	
	Vernier Assembly, Horizontal						
	Replace -----			X			
Repair -----					X		
TRIPODS							
Tripod Transit							
Service -----	X						
Replace -----		X					
Repair -----		X					
Head, Tripod							
Replace -----		X					
Leg Assembly, Tripod							
Replace -----		X					
Repair -----		X					
Steel Strip Assembly, Tripod Leg: Side							
Replace -----		X					
Repair -----		X					
6717	MICROSCOPE						
Microscope							
Replace -----					X		
Repair -----					X		
6720	BOXES, CARRYING CASES						
Case, Carrying Transit							
Replace -----	X						
6725	OPTICAL COMPONENTS						
Eyepiece Assembly, Telescope							
Service -----	X						
Adjust -----	X						
Replace -----			X				
Repair -----					X		
Lens, Minus & Telescope							
Replace -----					X		
Prism Assembly, Eyepiece							
Replace -----	X						
Repair -----					X		

External
External

Functional Group	Components and related operation	Echelons of maintenance					Remarks
		1	2	3	4	5	
6725.1	Ring, Focusing, Eyepiece						
	Replace -----						X
	Sunglass, Eyepiece						
	Replace -----		X				
	Shade, Telescope Lens						
	Replace . -----		X				
	TELESCOPE ASSEMBLY						
	Body Assembly, Telescope						
	Replace -----						X
	Repair -----						X
	Cap, Telescope Lens						
	Replace . -----	X					
	Clamp Assembly, Telescope						
	Replace . -----		X				
	Repair -----						X
Gear Assembly, Telescope							
Replace -----		X					
Repair -----						X	
Tube Assembly, Telescope							
Replace -----						X	
Repair -----						X	
Reticle Assembly: Eyepiece, Telescope							
Replace -----						X	
Repair -----						X	
6725.3	LAMP ASSEMBLY						
Lamp Assembly							
Replace -----		X					
Repair -----		X					
Lamp							
Replace -----	X						
6725.5	POWER PACK ASSEMBLY						
Battery							
Replace -----	X						
Box, Battery							
Replace -----		X					

MAINTENANCE AND OPERATING SUPPLIES

Item	Component Application	Source of Supply	Federal Stock Number	Description	Quality Required For Initial Operation	Quality Required for 8 hours Operation	Notes
				LUBRICATING OIL, instrument, 4 oz spout can as follows: (1)			(1) See SM 10-1-C4-1 for additional data and requisitioning procedure.
1.	16707 COMPASS	10	9150-257-5449 (2)	OA 1	As Req.	As Req.	
2.	6713 LEVELS	10	9150-257-5449 (2)	OA 1	As Req.	As Req.	
3.	6714 TRANSITS	10	9150-257-5449 (2)	OA 1	As Req.	As Req.	
4.	6716 TRIPODS	10	9150-257-5449 (2)	OA 1	As Req.	As Req.	
5.	6725.1 TELESCOPE ASSEMBLY	10	9150-257-5449 (2)	OA 1	As Req.	As Req.	

BY ORDER OF-THE SECRETARIES OF THE ARMY AND THE AIR FORCE:

G. H. DECKER,
General, United States Army,
Chief of Staff.

Official:

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

THOMAS D. WHITE,
Chief of Staff, United States Air Force.

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NG: State AG (3).

USAR. Same as Active Army except allowance is one copy to each unit.

For explanation of abbreviations use(l, see AR 320-50.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-left: 20px;"> <p style="font-size: small; margin: 0;">THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</p> </div>				<h2 style="margin: 0;">SOMETHING WRONG WITH PUBLICATION</h2>	
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PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE		

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 decagram = 10 grams = .35 ounce
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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