TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

FOR

ANEMOMETERS

ML-433/PM(NSN6660-00-663-8090)

AND

ML-433A/PM(NSN6660-00-663-8090)

HEADQUARTERS, DEPARTMENT OF THE ARMY

20 FEBRUARY 1978

TECHNICAL MANUAL
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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, *20 February 1978*

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ANEMOMETERS ML-433/PM(NSN6660-00-663-8090) AND ML-433A/PM(NSN6660-00-663-8090)

Current as of 18 November 1977

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• **This manual supersedes TM 11-6660-205-14P, 19 July 1972.**

SECTION I
INTRODUCTION

1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of operator's, organizational, direct support, and general support maintenance of the ML-433/PM and ML-433A/PM, It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General

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

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. 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.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	*Definition*
PA	Item procured and stocked for anticipated or known usage.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

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

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	*Application/Explanation*
O	Support item is removed, replaced, used at the organizational level.
D	Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	*Application/Explanation*
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
Z	Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability codes	*Definition*
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
L	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
A	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). 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.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

4. Special Information

Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are:

Code	*Used on*
2HC	ML-433/PM
2I3	ML-433A/PM

5. How to Locate Repair Parts

a. When National stock number or part number is unknown.

(1) *First.* Using the table of contents. determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the item belongs.

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

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National stock number or part number is known.

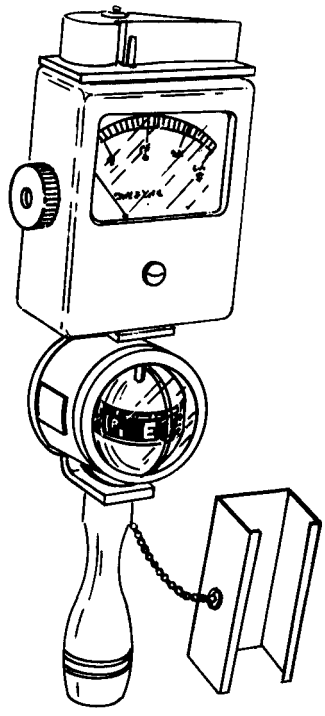
(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 4.)



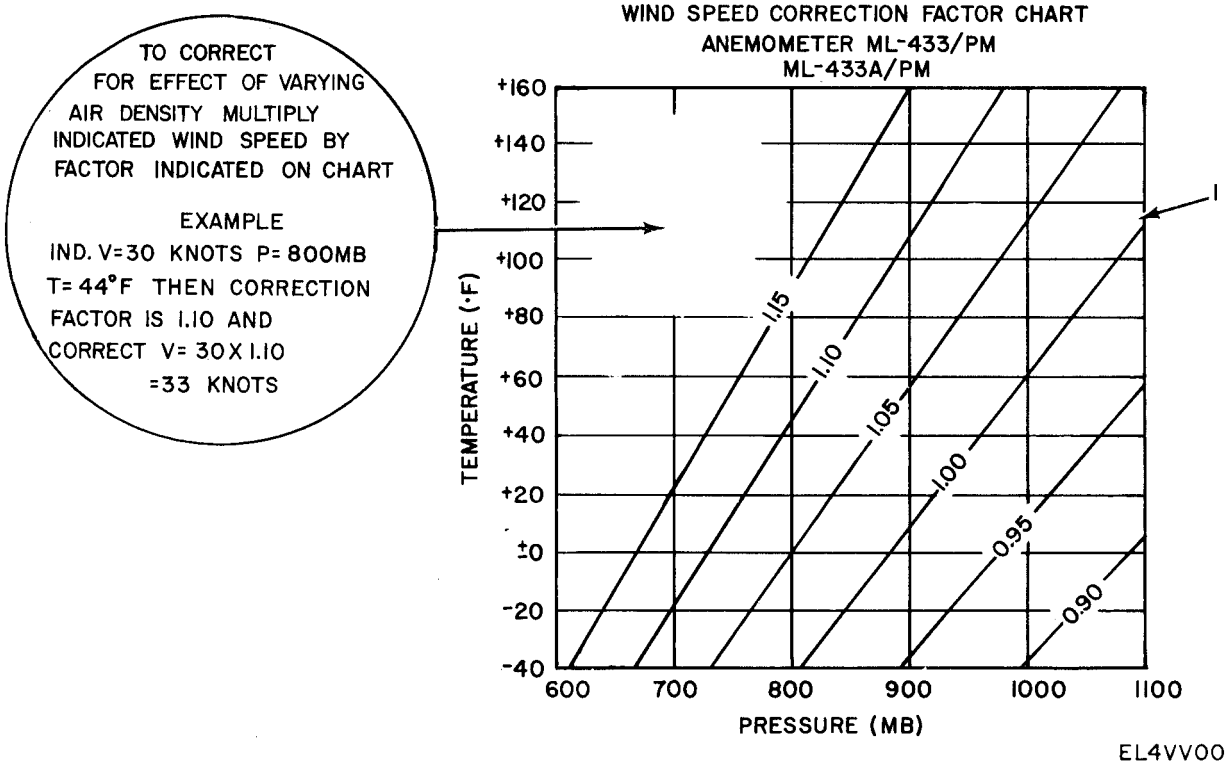


Figure 1. Anemometer ML-433/PM and ML-433A/PM.

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 ANEMOMETER ML-433/PM AND ML-433A/PM			
1	1	PAOZZ	6660-00-392-9690	SCC35240	80063	CHART, ANEMOMETER CORRECTION		EA	1

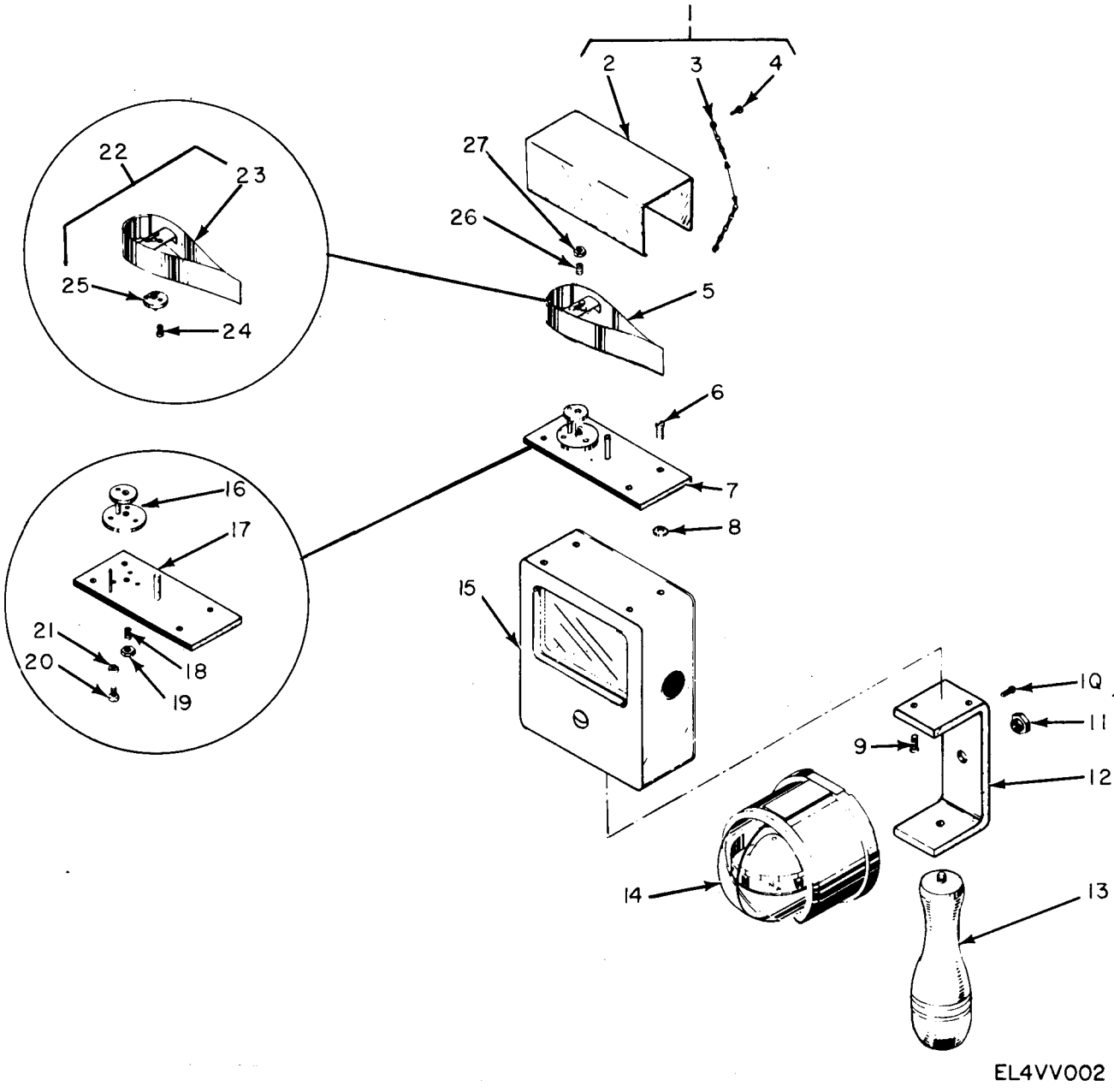


Figure 2. Anemometer ML-433/PM and ML-433A/PM, ML-433/PM Exploded View.

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
2	1	PAOOO	6660-00-399-7979	SCB106442	80063	COVER,WIND SPEED	2HC	EA	1
2	2	XDOZZ		SCB106449	80063	COVER,VANE	2HC	EA	1
2	3	XDOZZ		SCB106448	80063	CHAIN	2HC	EA	1
2	4	PAOZZ	5320-00-768-7605	MS20615-2B3	96906	RIVET,SOLID	2HC	EA	1
2	5	XDDDL		SCC106446	80063	VANE,SUPPORT ASSY	2HC	EA	1
2	6	PADZZ	5305-00-637-6369	1749-33	89944	SCREW,MACHINE	2HC	EA	4
2	7	XDDDL		SCC106456	80063	PLATE ASSEMBLY	2HC	EA	8
2	8	PAOZZ	5310-00-045-5204	MS15795-904	96906	WASHER, FLAT	2HC	EA	8
2	9	PADZZ	5305-00-151-1320	MS35198-13	96906	SCREW,MACHINE	2HC	EA	2
2	10	PAOZZ	5305-00-061-2332	MS24622-2	96906	SCREW, TAPPING,TH	2HC	EA	1
2	11	PAOZZ	5310-00-208-9860	SCB106438	80063	NUT,SLEEVE	2HC	EA	1
2	12	XDDZZ		SCC106445	80063	BRACKET,COMPASS	2HC	EA	1
2	13	PAOZZ	6660-00-030-0514	SCB106592	80063	HANDLE, ANEMOMETER	2HC	EA	1
2	14	PAOZA	6605-00-030-0510	SCC106437	80063	COMPASS, MAGNETIC	2HC	EA	1
2	15	PADDL	6660-00-663-8091	SCC106443	80063	ANEMOMETER	2HC	EA	1
2	16	XDDZZ		SCB106450	80063	POST ASSEMBLY	2HC	EA	1
2	17	XDDZZ		SCC106459	80063	PLATE,MOUNTING	2HC	EA	1
2	18	PAOZZ	6660-00-392-9685	SCB106440	80063	BEARING JEWEL	2HC	EA	1
2	19	XDDZZ		SCB106441	80063	NUT, PLAIN, HEXAGON	2HC	EA	1
2	20	PADZZ	5305-00-637-6376	SCB106468	80063	SCREW,MACHINE	2HC	EA	1
2	21	PADZZ	5310-00-032-1974	SCB106599	80063	WASHER, LOCK	2HC	EA	1
2	22	PADDL	6660-00-692-6673	SCC106439	80063	VANEASSEMBLY	2HC	EA	1
2	23	XDDZZ		SCB106462	80063	VANE	2HC	EA	1
2	24	PADZZ	5305-00-373-8999	SCB106467	80063	SCREW,MACHINE	2HC	EA	3
2	25	XDDZZ		SCB106455	80063	HUB	2HC	EA	1
2	26	PADZZ	6660-00-392-9685	SCB106440	80063	BEARING JEWEL	2HC	EA	1
2	27	XDDZZ		SCB106441	80063	NUT,PLAIN,HEXAGON	2HC	EA	1

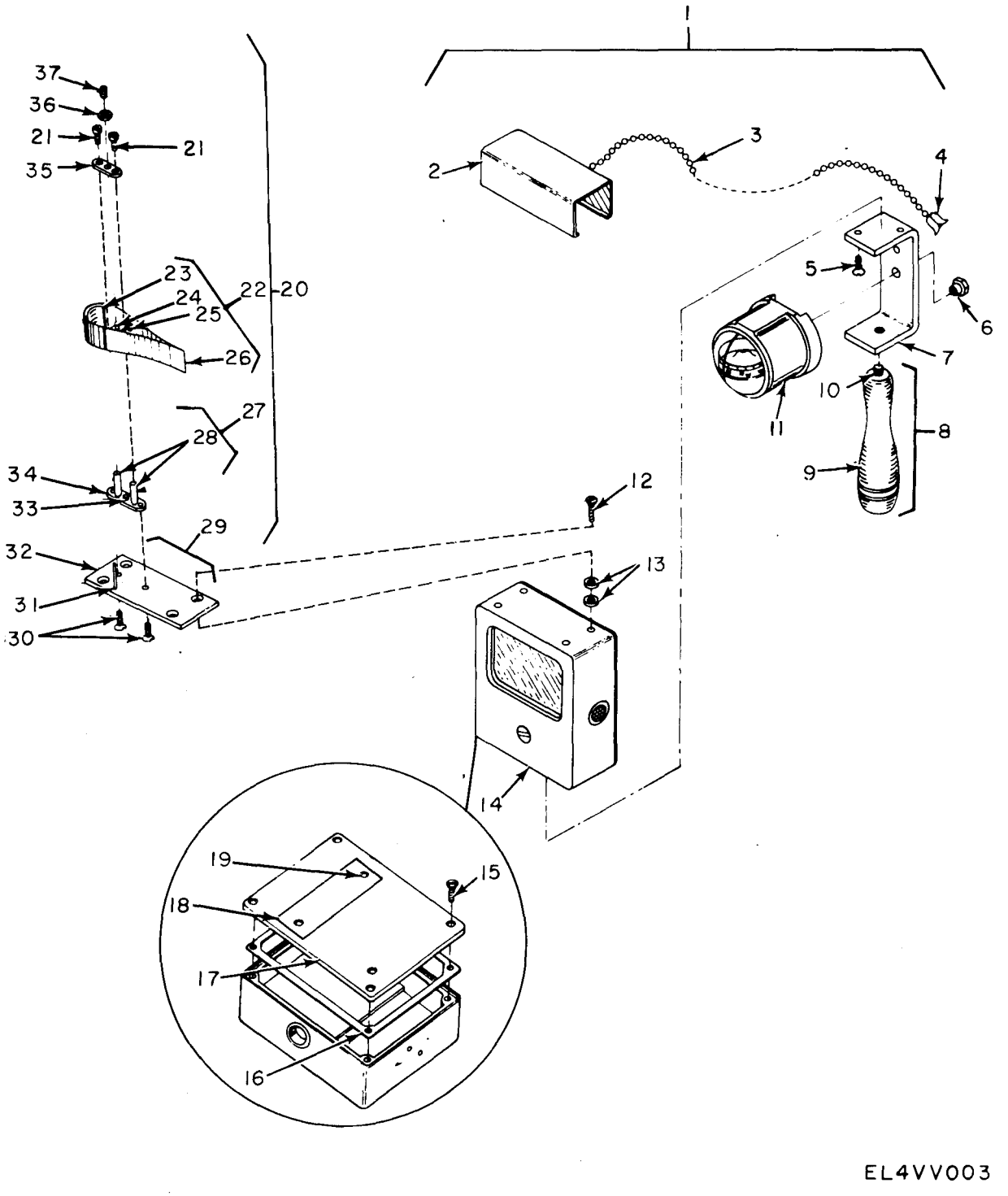


Figure 3. Anemometer ML-433/PM and ML-433A/PM, ML-433A/PM Exploded View.

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
3	1	XDOOO		SCB96674	80063	METER,AV,ASSEMBLY	213	EA	1
3	2	XDOZZ		SCB96683	80063	COVER, WIND VANE	213	EA	1
3	3	PAOZZ	4010-00-555-2658	3	70892	CHAIN,BEAD	213	EA	1
3	4	PAOZZ	4030-00-684-4761	3S1	70892	END RING, BEAD CH	213	EA	1
3	5	PADZZ	5305-00-151-1320	MS35198-13	96906	SCREW,MACHINE	213	EA	2
3	6	XDOZZ		SCB96678	80063	NUT,PLAIN,HEXAGON	213	EA	1
3	7	XDDZZ		SCB96676	80063	BRACKET,MOUNTING	213	EA	1
3	8	PAOOO	5340-00-489-8426	SMB347101	80063	HANDLE,EXTENSION	213	EA	1
3	9	XDOZZ		SCB96680	80063	HANDLE,WOOD	213	EA	1
3	10	PADZZ	5305-00-929-6558	MS51021-62	96906	SETSCREW	213	EA	1
3	11	XDOZA		SMD347100	80063	COMPASS,MAGNETIC	213	EA	1
3	12	XDDZZ		MS35245-21	96906	SCREW,MACHINE	213	EA	4
3	13	PADZZ	5310-00-045-5204	MS15795-904	96906	WASHER,FLAT	213	EA	8
3	14	PADDL	6680-00-663-8163	SCC96675	80063	METER,AIR VELCITY	213	EA	1
3	15	XDDZZ		MS35246-25	96906	SCREW,MACHINE	213	EA	4
3	16	PADZZ	5330-00-633-3595	4477	01518	GASKET	213	EA	1
3	17	XDDZZ		4456	01518	BASE,INSTRUMENT	213	EA	1
3	18	XDDZZ		SMB183459	80063	PLATE,IDENT	213	EA	1
3	19	PADZZ	5305-00-559-8144	MS35267-1	96906	SCREW,MACHINE	213	EA	2
3	20	PADDL	6660-00-030-0526	SCB96654	80063	VANE ASSEMBLY	213	EA	1
3	21	PADZZ	5305-00-059-8226	MS35214-1	96906	SCREW,MACHINE	213	EA	2
3	22	XDDDL		SCB96658	80063	VANE SUPPORT ASSY	213	EA	1
3	23	XDDZZ		SCB96660	80063	COUNTERWEIGHT	213	EA	1
3	24	XDDZZ		SCB96663	80063	SHAFT	213	EA	1
3	25	XDDZZ		SCB96661	80063	SHAFT,BRACE ASSY	213	EA	1
3	26	XDDZZ		SCB96659	80063	VANE,BODY	213	EA	1
3	27	XDDDL		SCB96665	80063	BEARING ASSEMBLY	213	EA	1
3	28	XDDZZ		SCB96668	80063	PLATE, MOUNTING	213	EA	1
3	29	XDDDL		SCB96655	80063	PLATE ASSEMBLY	213	EA	1
3	30	PADZZ	5305-00-616-1815	MS35198-2	96906	SCREW,MACHINE	213	EA	2
3	31	XDDZZ		SCB96657	80063	PIN,STRAIGHT	213	EA	1
3	32	XDDZZ		SCB96656	80063	PLATE	213	EA	1
3	33	XDDZZ		SCB96669	80063	JEWEL,BODY ASSEMBLY	213	EA	1
3	34	XDDZZ		SCB96667	80063	STANDOFF	213	EA	2
3	35	XDDZZ		SCB96666	80063	SUPPORT, BEARING	213	EA	1
3	36	PADZZ	5310-00-167-1358	AN34033	88044	NUT,PLAIN,HEXAGON	213	EA	1
3	37	XDDZZ		SCB96672	80063	JEWEL-SCREW ASSY	213	EA	1

NOTE: LATEST NATIONAL STOCK NUMBER AND PART NUMBER ASSIGNMENTS ARE INCLUDED AT END OF INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
6605-00-030-0510	2	14	6660-00-392-9685	2	26
6660-00-030-0514	2	13	6660-00-392-9690	1	1
6660-00-030-0526	3	20	6660-00-399-7979	2	1
5310-00-032-1974	2	21	5340-00-489-8426	3	8
5310-00-045-5204	2	8	4010-00-555-2658	3	3
5310-00-045-5204	3	13	5305-00-559-8144	3	19
5305-00-059-8226	3	21	5330-00-633-3595	3	16
5305-00-061-2332	2	10	5305-00-637-6369	2	6
5305-00-151-1320	2	9	5305-00-637-6376	2	20
5305-00-151-1320	3	5	6660-00-663-8091	2	15
5310-00-167-1358	3	36	4030-00-684-4761	3	4
5305-00-373-8999	2	24	6660-00-692-6673	2	22
6660-00-392-9685	2	18	5305-00-929-6558	3	10

PART NUMBER	FSCM	FIG NO	ITEM NO	PART NUMBER	FSCM	FIG NO	ITEM NO
AN34033	88044	3	36	SCB96659	80063	3	26
MS15795-904	9696	2	8	SCB96660	80063	3	23
MS15795-904	96906	3	13	SCB96661	80063	3	25
MS20615-2B3	96906	2	4	SCB96663	80063	3	24
MS24622-2	96906	2	10	SCB96665	80063	3	27
MS35198-13	96906	2	9	SCB96666	80063	3	25
MS35198-13	96906	3	5	SCB96667	80063	3	34
MS35214-1	96906	3	21	SCB96668	80063	3	28
MS35245-21	96906	3	12	SCB96669	80063	3	33
				SCB96672	80063	3	37
MS35246-25	96906	3	15	SCB96674	80063	3	1
MS35267-1	96906	3	19	SCB96676	80063	3	7
MS51021-62	96906	3	10	SCB96678	80063	3	6
SCB106438	80063	2	11	SCB96680	80063	3	9
SCB106440	80063	2	18	SCB96683	80063	3	2
SCB106440	80063	2	26	SCC106437	80063	2	14
SCB106441	80063	2	19	SCC106439	80063	2	22
SCB106441	80063	2	27	SCC106443	80063	2	15
SCB106442	80063	2	1	SCC106445	80063	2	12
SCB106448	80063	2	3	SCC106446	80063	2	5
SCB106449	80063	2	2	SCC106456	80063	2	7
SCB106450	80063	2	16	SCC106459	80063	2	17
SCB106455	80063	2	25	SCC35240	80063	1	1
SCB106462	80063	2	23	SCC96675	80063	3	14
SCB106467	80063	2	24	SMB183459	80063	3	18
SCB106468	80063	2	20	SMB347101	80063	3	8
SCB106592	80063	2	13	SMD34/100	80063	3	11
SCB106599	80063	2	21	1/49-33	89944	2	6
SCB96654	80063	3	20	3	70892	3	3
SCB96655	80063	3	29	3S1	70892	3	4
SCB96656	80063	3	32	4456	01518	3	17
SCB96657	80063	3	31	4477	01518	3	16
SCB96658	80063	3	22				

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

STOCK NUMBER	FIG. NO.	ITEM NO.
5310-00-208-9860	2	11
5305-00-616-1815	3	30
5320-00-768-7605	2	4
6680-00-663-8163	3	14

LATEST PART NUMBER ASSIGNMENT

PART NUMBER	FSCM	FIG.NO.	ITEM NO.
MS35198-2	96906	3	30

APPENDIX C
MAINTENANCE ALLOCATION

Section I. INTRODUCTION

C-1. General

This appendix provides a summary of the maintenance operations for the ML-433/PM and ML-433A/PM. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

C-2. Maintenance Function

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment or system.

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The act of substituting a serviceable like type part, subassembly, or moduIe (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance action (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system,

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

C-3. Column Entries

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a ‘‘worktime” figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate ‘‘worktime” figures will be shown for each category. The number of task-hours specified by the “worktime” figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time

required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows

C-Operator/Crew
O-Organizational
F-Direct Support
H-General Support
D-Depot

e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

f. Column 6, Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code,

C-4. Tool and Test Equipment Requirements (sec III)

a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.

b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.

c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.

e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

C-5. Remarks (sec IV)

a. Reference Code. This code refers to the appropriate item in section II, column 6.

b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

(Next printed page is 13.)

SECTION II MAINTENANCE ALLOCATION CHART
FOR

ANEMOMETERS ML-433/PM AND ML-433A/PM

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
00	ANEMOMETERS ML-433/PM AND ML-433A/PM	Inspect	0.2						
		Service	0.2						
		Adjust	0.2					1	A
		Test	0.3						B
		Service		0.4				2	C
		Repair		0.4					
		Adjust		0.3					
		Repair					1.0		

SECTION III TOOL AND TEST EQUIPMENT REQUIREMENTS
FOR
ANEMOMETERS ML-433A/PM AND ML-433A/PM

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	C	KNIFE TL-29	7340-00-240-5943	
2	0	TOOL KIT, ELECTRIC EQUIPMENT TK-1010/G	5180-00-856-1578	
3	D	TOOL KIT, ELECTRONIC EQUIPMENT TK-100/G	5180-00-605-0079	

REFERENCE CODE	REMARKS
A	VELOMETER ZERO SETTING
B	FUNCTIONAL TEST
C	CLEAN VANE BEARING AND INTERRIOR OF VELOMETER
D	REPLACE COMPASS, VANE COVER, BEAD CHAIN HANDLE, CORRECTION CHART
E	VELOMETER CLEARANCE

By Order of the Secretary of the Army:

BERNARD W. ROGERS
General, United States Army
Chief of Staff

Official:

J. C. PENNINGTON
Brigadier General, United States Army
The Adjutant General

Distribution:

Active Army

USAINSCOM (2)	1-137
COE (1)	1-165
TSG (1)	1-167
USAERRENBD (1)	1-258
DARCOM (1)	3-266
TRADOC (2)	6-100
OS Maj Comd (4)	6-185
TECOM (2)	6-200
USACC (4)	6-201
MDW (1)	6-300
Armies (2)	6-302
Corps (2)	6-525
Scv Colleges (1)	6-526
USASIGS (5)	6-575
USAADS (2)	6-576
USAFAS (2)	6-577
USAARMS (2)	6-700
USAIS (2)	6-701
USAES (2)	7
USAICS (3)	7-55
MAAG (1)	7-58
USARMIS (1)	7-100
USAERDAA (1)	7-175
USAERDAW (1)	7-178
AVRADCOM (2)	10-407
Ft Monmouth (HISA) (33)	11-95
Fort Gillem (10)	11-500 (AA-AC)
Fort Gordon (10)	17
Ft Huachuca (10)	17-51
Fort Carson (5)	17-95
Ft Richardson (ECOM) (2)	17-98
Army Dep (1) except	17-99
LBAD (14)	17-100
SAAD (30)	29-134
TOAD (14)	29-136
SHAD (3)	37
USA Dep (1)	37-100
Sig Sec USA Dep (1)	39-51
Units org under fol TOE: (1 cy ea)	57
1-127	67
1-128	67-42

NG: None
USAR: None
For explanations of abbreviations used, see AR 310-50.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1978-765-096/630

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS

SOMETHING WRONG WITH THIS MANUAL?

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

FROM: (YOUR UNIT'S COMPLETE ADDRESS)
Commander
Stateside Army Depot
ATTN: AMSTA-US
Stateside, N.J. 07703

DATE 10 July 1975

PUBLICATION NUMBER	DATE	TITLE
TM 11-5840-340-12	23 Jan 74	Radar Set AN/PPC-76

BE EXACT. . .PIN-POINT WHERE IT IS

PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°. REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.
3-10	3-3		3-1	Item 5, Function column. Change "2 db" to "3db." REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.
5-6	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		Zone C 3. On J1-2, change "+24 VDC to "+5 VDC." REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
SSG I. M. DeSpiritof 999-1776

SIGN HERE: SSG I. M. DeSpiritof

DA FORM 1 AUG 74 2028-2 (TEST)

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HISA 1686-75

TEAR ALONG DOTTED LINE

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PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.

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

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THE METRIC SYSTEM AND EQUIVALENTS

'NEAR MEASURE

. 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

'VEIGHTS

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

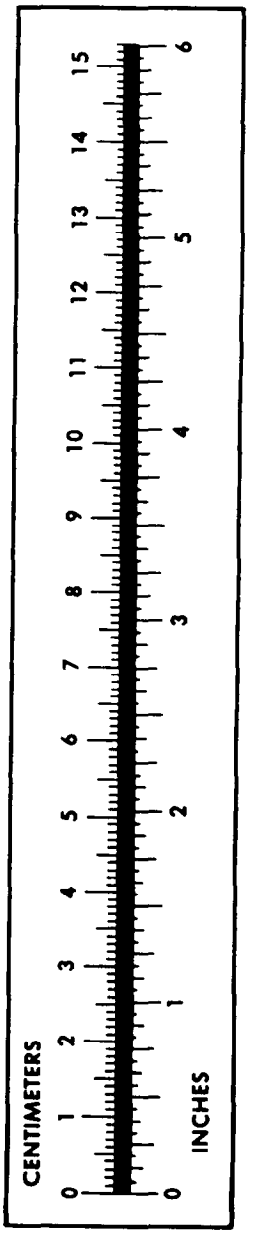
TEMPERATURE

5/9(°F - 32) = °C
212° Fahrenheit is evuivalent to 100° Celsius
90° Fahrenheit is equivalent to 32.2° Celsius
32° Fahrenheit is equivalent to 0° Celsius
9/5C° + 32 =°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
ıts	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
lometers per Liter	Miles per Gallon	2.354
meters per Hour	Miles per Hour	0.621



PIN: 016174-000