

TECHNICAL MANUAL
ORGANIZATIONAL MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

MULTIPLEXER TD-353/U
(NSN 5805-00-985-9153)

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REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
MULTIPLEXER TD-353/U
(NSN 5805-00-985-9153)

Current as of 18 August 1989

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*This manual supersedes TM 11-5805-367-20P-3-2, 14 June 1978.

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SECTION I INTRODUCTION

1. Scope

This manual lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational maintenance of the TD-353/U. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance and recoverability (SMR) 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 by this RPSTL 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 ascending numeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header.

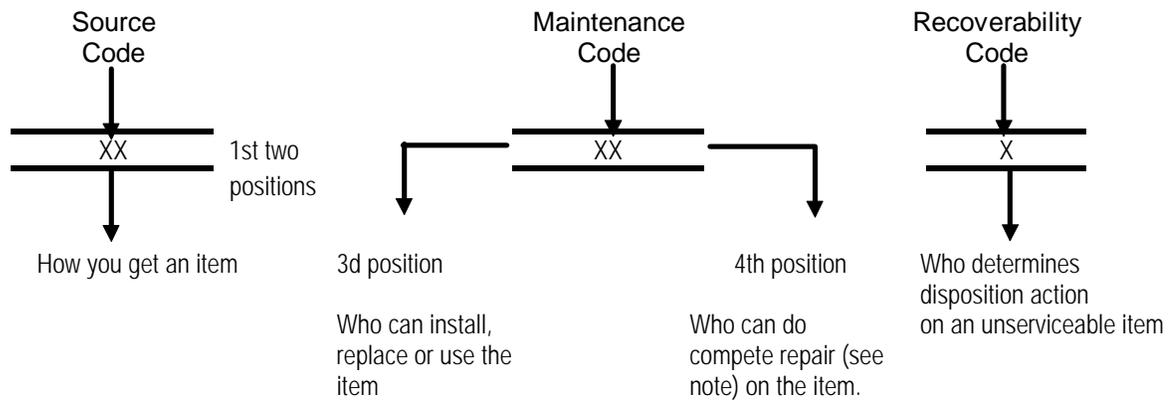
b. Section III. Special Tools List. Not applicable.

c. Section IV. Cross-Reference Indexes. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, 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. The figure number and item number index lists figure and item numbers in numeric sequence and cross-references National stock number, Federal Supply Code for Manufacturer and part numbers.

3. Explanation of Columns (Section II and III)

a. Item No. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)) The source, maintenance, and recoverability (SMR) code is supply/requisitioning a five-position code containing supply-requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:



NOTE

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code

Explanation

PA
PB
PC
PD
PE
PF
PG

Stocked items: use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code.

NOTE

Items coded PC are subject to deterioration.

KD
KF
KB

Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.

Code

Explanation

MO - Made at org/avum category
 MF - Made at DS/AVIM category
 MH - Made at GS category
 ML - Made at Specialized Repair Activity (SRA)
 MD - Made at Depot

Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance.

AO - Assembled by org/AVUM category
 AF - Assembled by DS/AVIM category
 AH - Assembled by GS category
 AL - Assembled by SRA
 AD - Assembled by Depot

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance.

Code

Explanation

- XA - Do not requisition an "XA" coded item. Order its next higher assembly.
- XB - If an "XB" item is not available from salvage, order it using the FCSM and part number given.
- XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD - Item is not stocked. Order an "XD" coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

(2) Maintenance code. Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

<u>Code</u>	<u>Application/Explanation</u>
C -	Crew or operator maintenance done within organizational or aviation maintenance.
O -	Organizational or aviation unit category can remove, replace, and use the item
F -	Direct support or aviation intermediate category can remove, replace, and use the item.
H -	General support category can remove, replace, and use the item.
L -	Specialized repair activity can remove, replace, and use the item.
D -	Depot category can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

NOTE

Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

<u>Code</u>	<u>Application/Explanation</u>
O -	Organizational or aviation unit is the lowest category that can do complete repair of the item.
F -	Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
H -	General support is the lowest category that can do complete repair of the item.
L -	Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item.
D -	Depot is the lowest category that can do complete repair of the item.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. Description and Usable on Code (UOC) (Column 5). This column includes the following information.

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.

f. Qty (Column (6)). 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. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Section IV)

a. National Stock Number (NSN) Index.

(1) Stock number column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN (13 digits).

(2) Fig. column. This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.

(3) Item column. The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.

b. Part Number Index. Part numbers in this index are listed by part number in ascending alphameric sequence.

(1) FSCM column. This column lists the Federal supply code for manufacturer (FSCM).

(2) Part number column. This column indicates the part number assigned to the item.

(3) Stock number column. This column lists the National stock number for the associated part number and manufacturer identified in the part number and FSCM columns to the left.

(4) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III.

(5) Item column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. Figure and Item Number Index.

(1) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III.

(2) Item column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) Stock number column. This column lists the National stock number for the item.

(4) FSCM column. The Federal supply code for manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) Part number column. Indicates the primary number used by the manufacturer (individual, 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 item.

5. Special Information

a. Associated Publications. The publication listed below pertains to the TD-353/U and its components:

TM 11-5805-367-12, Multiplexers TD-202/U, TD-203/U, TD-204/U, TD-352/U and TD-353/U; Restorer, Pulse Form TD-206/U, and Converter, Telephone Signal CV-1548/G and CV-1548A/G

b. Illustrations - Listings. The illustrations in this RPSTL are identical to those published in TM 11-5805-367-34P-3-2. Only those parts coded "C" or "O" in the third position of the SMR code are listed in the tabular listing; therefore, there may be a break in the item number sequence, figure number and page number. Only illustrations containing organizational or aviation unit authorized items appear in this RPSTL.

c. National Stock Numbers. National stock numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Communications- Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-MM, Fort Monmouth, NJ 07703-5000 for the part required to support your equipment.

6. How to Locate Repair Parts

a. When National stock number or part number is not known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

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

(4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.

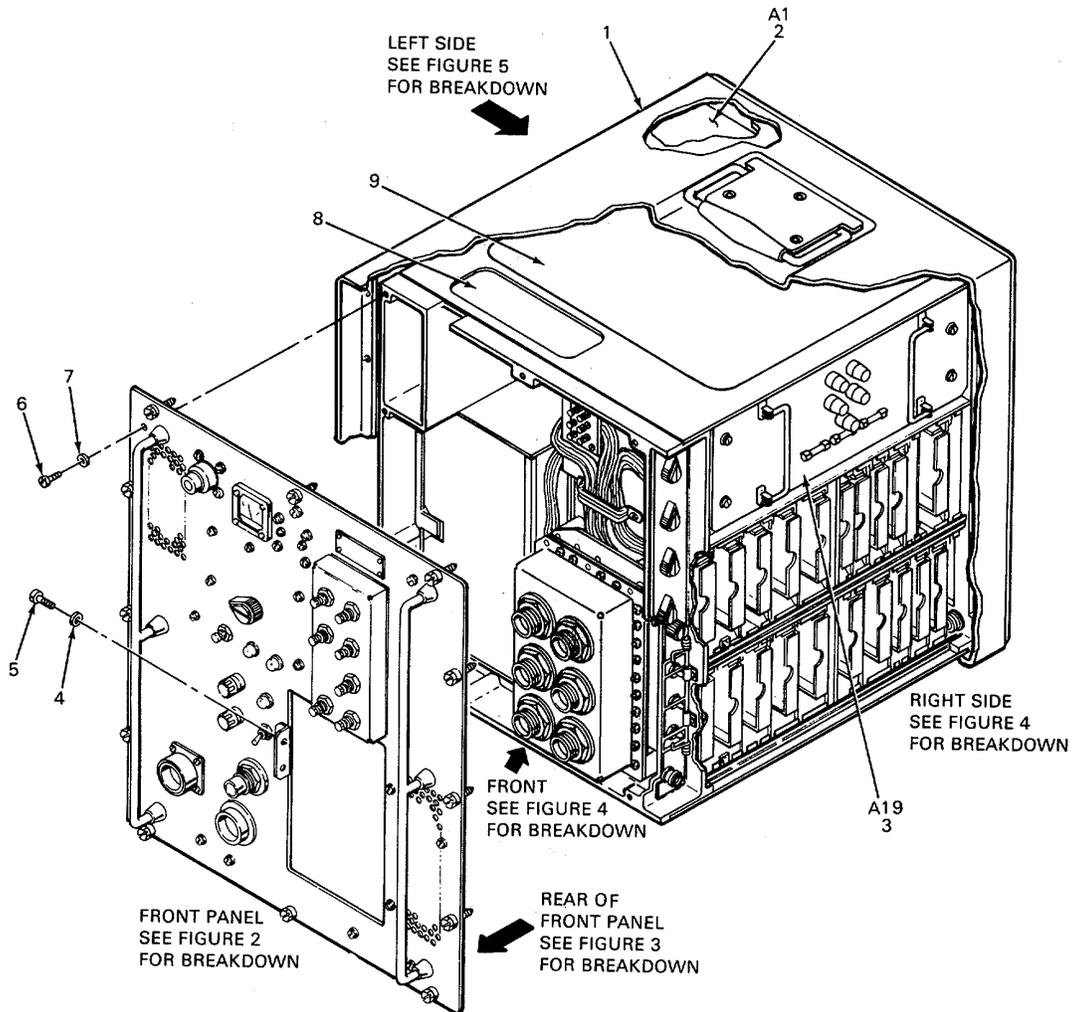
b. When National stock number or part number is known.

(1) First. Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National item identification number (NIIN) sequence (para 4a(1)). The part numbers in the part number index are listed in ascending alphameric sequence (para 4b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations

Not applicable.



CE0CS001

Figure 1. Multiplexer TD-353/U

SECTION II TM 11-5805-367-20P-3-2

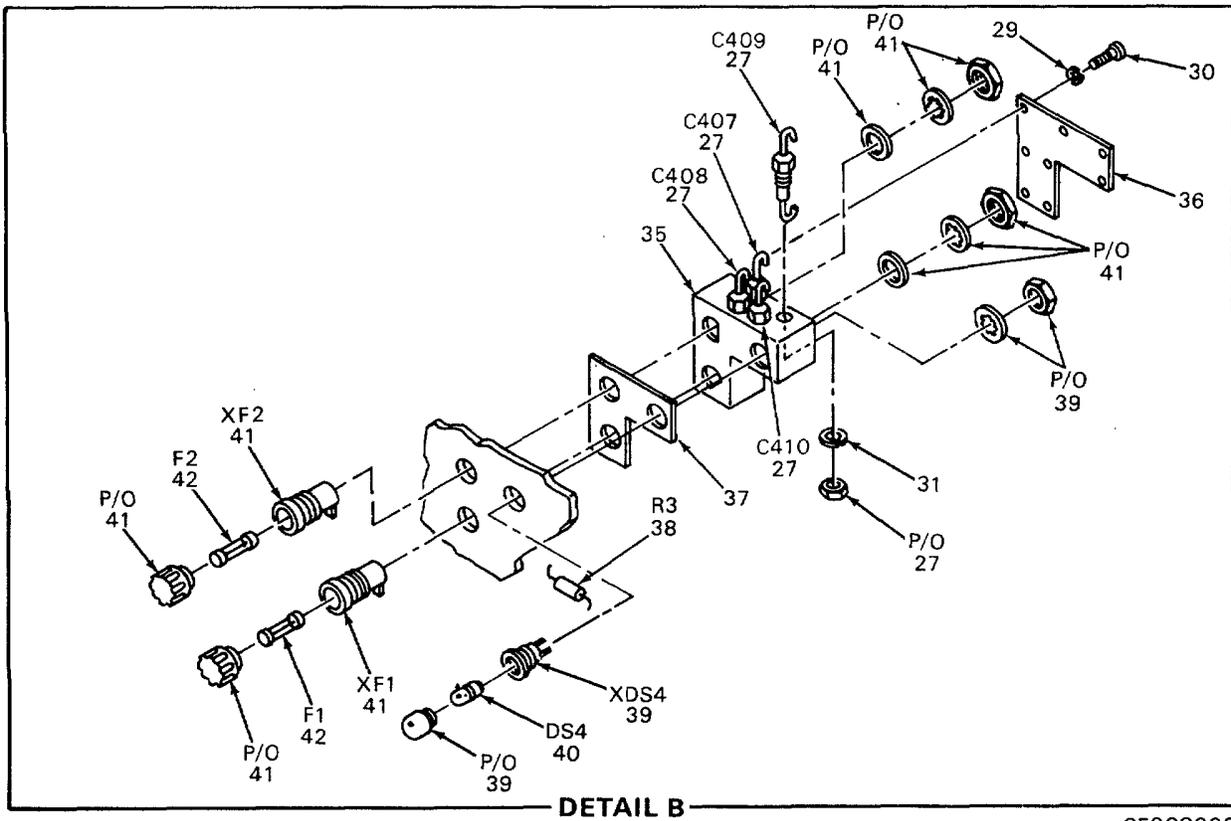
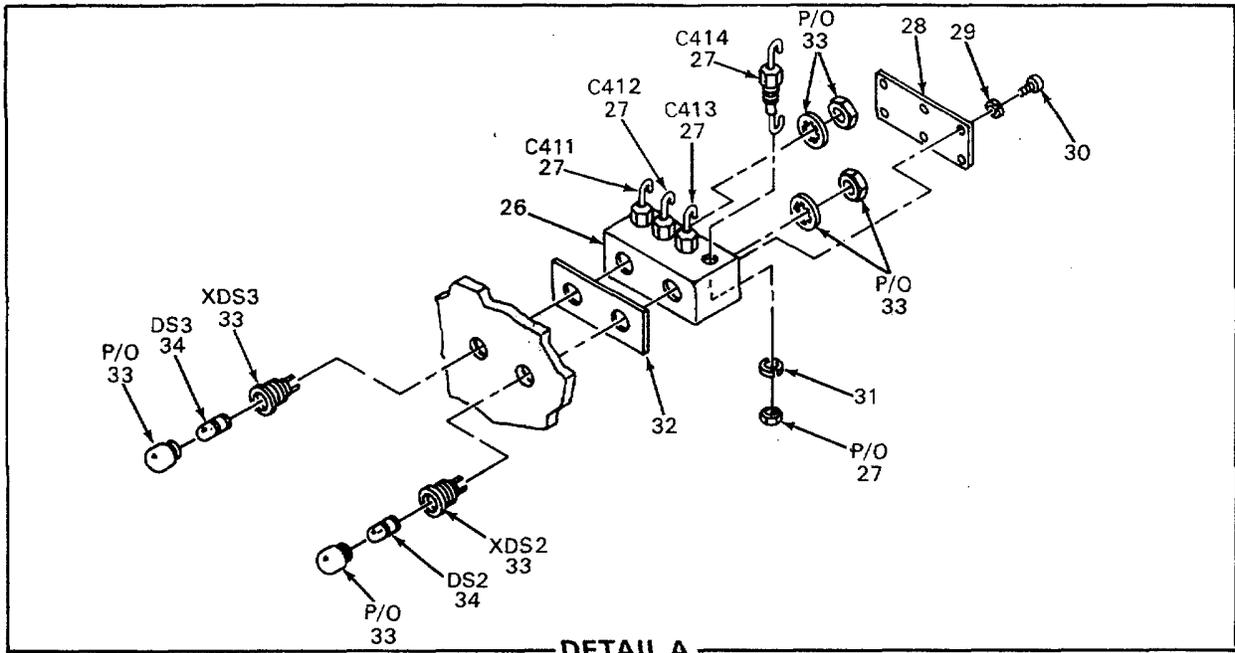
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR	FSCM	PART	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
NO	CODE		NUMBER		

GROUP 00 MULTIPLEXER TD-353/U

FIGURE 1

2	PAOLL	80063	SM-E-526530	POWER SUPPLY	1
2	PAOLL	80063	SM-E-526587	POWER SUPPLY	1

END OF FIGURE



CEOCS003

Figure 2. Front Panel

SECTION II

TM 11-5805-367-20P-3-2

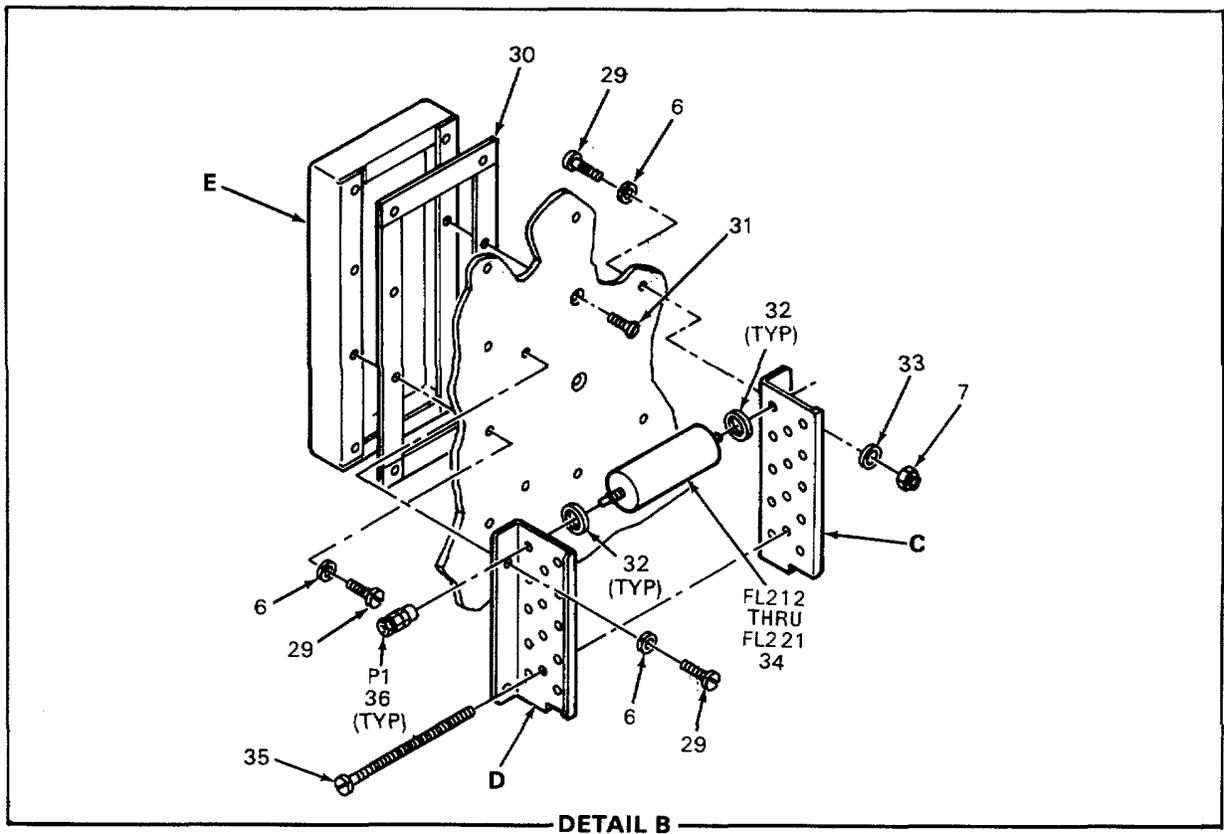
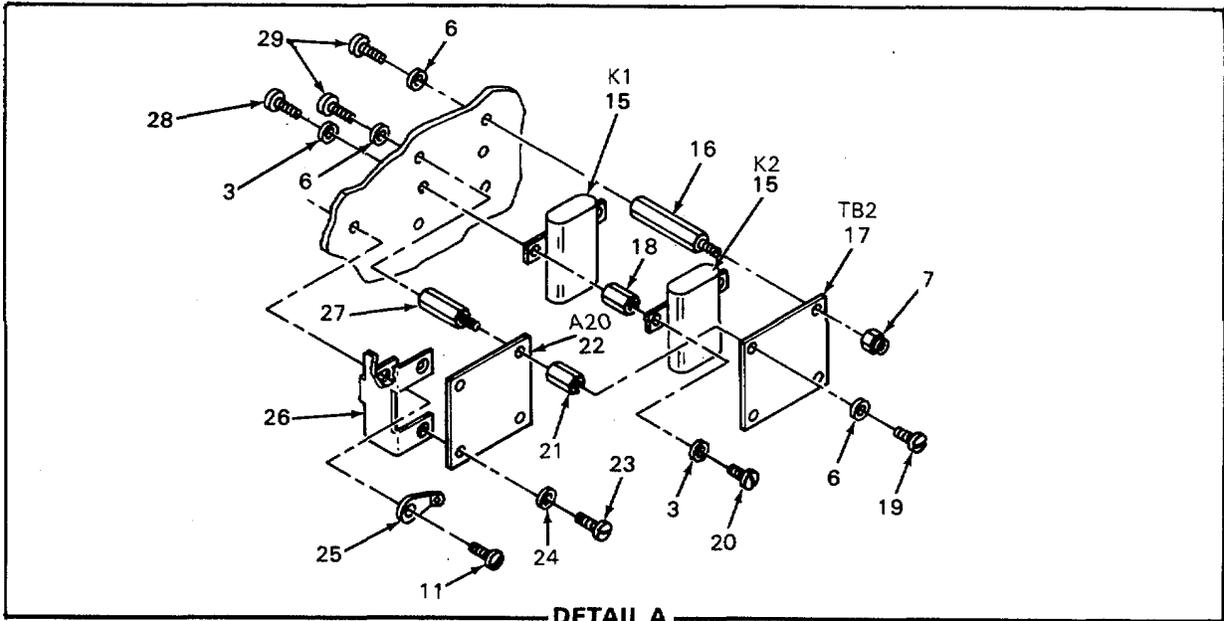
(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 00 FRONT PANEL

FIGURE 2

42	PAOZZ	81349	F02B250V3A	FUSE, CARTRIDGE	2
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END OF FIGURE



CEOCS006

Figure 3. Front Panel, Rear

SECTION II

TM 11-5805-367-20P-3-2

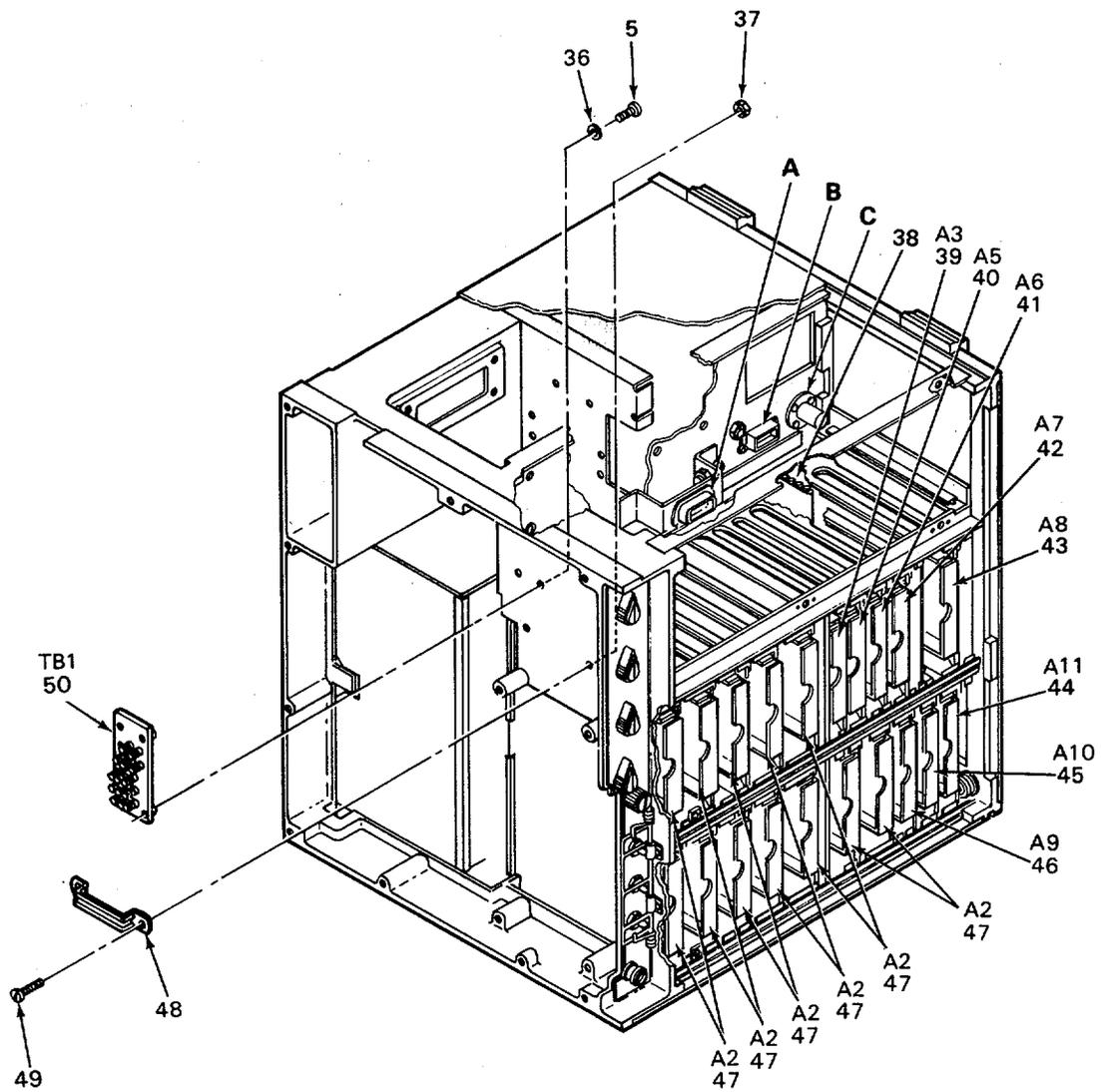
(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 00 FRONT PANEL, REAR

FIGURE 3

17	PAOLL	80063	SM-C-526786GR2	MULTIPLEXER SUBASSE	1
22	PAOLL	80063	SM-C-526895	CIRCUIT CARD ASSEMB	1

END OF FIGURE



CE0CS009

Figure 4. Front/Right Side View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 00 FRONT/RIGHT SIDE VIEW					
FIGURE 4					
39	PAOLL	80063	SM-D-526539	MULTIPLEXER SUBBASSE	1
40	PAOLL	80063	SM-D-529097	MULTIPLEXER SUBASSE.....	1
41	PAOLL	80063	A3010745	PANEL ASSEMBLY	1
42	PAOLL	80063	SM-D-529100	MULTIPLEXER SUBBASSE	1
43	PAOLL	80063	SM-D-529103	MULTIPLEXER SUBBASSE	1
44	PAOLL	80063	SM-D-526548	MULTIPLEXER SUBBASSE	1
45	PAOLL	80063	SM-D-529109	PANEL ASSY, GENERATO.....	1
46	PAOLL	80063	SM-D-529106	MULTIPLEXER SUBBASSE	1
47	PAOLL	80063	A3043529	PANEL ASSEMBLY	12

END OF FIGURE

SECTION II

TM 11-5805-367-20P-3-2

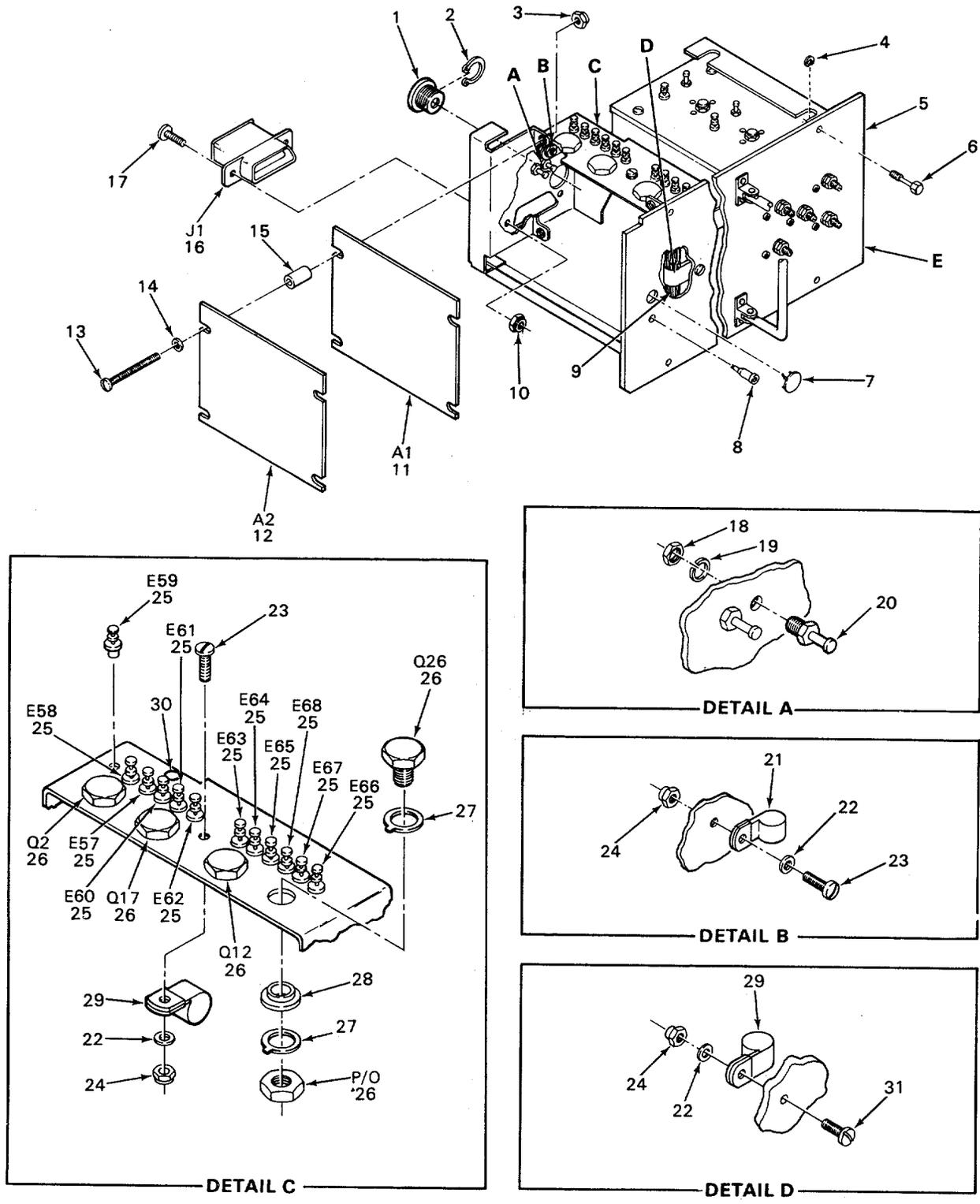
(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
-------------------	--------------------	-------------	-----------------------	---	------------

GROUP 00 FRONT/LEFT SIDE VIEW

FIGURE 5

4	PAOLL	80063	A3043529	PANEL ASSEMBLY	12
6	PAOLL	80063	SM-D-529293	CIRCUIT CARD ASSEMB.....	1
7	PAOLL	80063	SM-D-529112	MULTIPLEXER SUBASSE.....	1
8	PAOLL	80063	SM-D-529118	MULTIPLEXER SUBASSE.....	1
10	PAOLL	80063	SM-D-529121	MULTIPLEXER SUBASSE.....	1
11	PAOLL	80063	SM-D-529109	PANEL. ASSY, GENERATO.....	1
12	PAOLL	80063	SM-D-526554	MULTIPLEXER. SUBASSE.....	1
13	PAOLL	80063	SM-D-529115	MULTIPLEXER. SUBASSE.....	1
14	PAOLL	80063	SM-D-526584	MULTIPLEXER. SUBASSE.....	1

END OF FIGURE



CEOCS017

Figure 7. Power Supply (A1)

SECTION II

TM 11-5805-367-20P-3-2

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 01 POWER. SUPPLY (A1) FIGURE. 7	
12	PAOHH	80063	SM-D-526532	POWER. SUPPLY. SUBASS.....	1

END OF FIGURE

CROSS-REFERENCE INDEXES

STOCK NUMBER	FIG.	ITEM	NATIONAL STOCK NUMBER INDEX STOCK NUMBER	FIG.	ITEM
5805-00-044-1912	5	6			
5805-00-044-1926	3	22			
6130-00-914-5770	1	2			
5805-00-916-5960	4	40			
5805-00-916-5961	4	42			
5805-00-943-9890	5	13			
5805-00-944-1030	5	7			
5805-00-944-1990	4	43			
5805-00-944-8899	7	12			
5805-00-944-8942	4	39			
5805-00-945-1075	4	44			
5805-00-945-1121	5	12			
5805-00-945-6146	4	46			
5805-00-945-6168	5	10			
5805-00-945-7620	5	8			
6130-00-947-3383	1	3			
5805-00-948-1605	3	17			
5805-00-974-9941	5	14			
5920-01-028-5727	2	42			
5805-01-184-6893	4	41			
5805-01-187-0197	4	47			
	5	4			

CROSS-REFERENCE INDEXES
PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
80063	A3010745	5805-01-184-6893	4	41
80063	A3043529	5805-01-187-0197	4	47
			5	4
81349	FO2B250V3A	5920-01-028-5727	2	42
80063	SM-C-526786GR2	5805-00-948-1605	3	17
80063	SM-C-526895	5805-00-044-1926	3	22
80063	SM-D-526532	5805-00-944-8899	7	12
80063	SM-D-526539	5805-00-944-8942	4	39
80063	SM-D-526548	5805-00-945-1075	4	44
80063	SM-D-526554	5805-00-945-1121	5	12
80063	SM-D-526584	5805-00-974-9941	5	14
80063	SM-D-529097	5805-00-916-5960	4	40
80063	SM-D-529100	5805-00-916-5961	4	42
80063	SM-D-529103	5805-00-944-1990	4	43
80063	SM-D-529106	5805-00-945-6146	4	46
80063	SM-D-529109		4	45
			5	11
80063	SM-D-529112	5805-00-944-1030	5	7
80063	SM-D-529115	5805-00-943-9890	5	13
80063	SM-D-529118	5805-00-945-7620	5	8
80063	SM-D-529121	5805-00-945-6168	5	10
80063	SM-D-529293	5805-00-044-1912	5	6
80063	SM-E-526530	6130-00-914-5770	1	2
80063	SM-E-526587	6130-00-947-3383	1	3

CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEXES

FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
1	2	6130-00-914-5770	80063	SM-E-526530
1	3	6130-00-947-3383	80063	SM-E-526587
2	42	5920-01-028-5727	81349	FO2B250V3A
3	17	5805-00-948-1605	80063	SM-C-526786GR2
3	22	5805-00-044-1926	80063	SM-C-526895
4	39	5805-00-944-8942	80063	SM-D-526539
4	40	5805-00-916-5960	80063	SM-D-529097
4	41	5805-01-184-6893	80063	A3010745
4	42	5805-00-916-5961	80063	SM-D-529100
4	43	5805-00-944-1990	80063	SM-D-529103
4	44	5805-00-945-1075	80063	SM-D-526548
4	45		80063	SM-D-529109
4	46	5805-00-945-6146	80063	SM-D-529106
4	47	5805-01-187-0197	80063	A3043529
5	4	5805-01-187-0197	80063	A3043529
5	6	5805-00-044-1912	80063	SM-D-529293
5	7	5805-00-944-1030	80063	SM-D-529112
5	8	5805-00-945-7620	80063	SM-D-529118
5	10	5805-00-945-6168	80063	SM-D-529121
5	11		80063	SM-D-529109
5	12	5805-00-945-1121	80063	SM-D-526554
5	13	5805-00-943-9890	80063	SM-D-529115
5	14	5805-00-974-9941	80063	SM-D-526584
7	12	5805-00-944-8899	80063	SM-D-526532

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PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

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

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

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THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

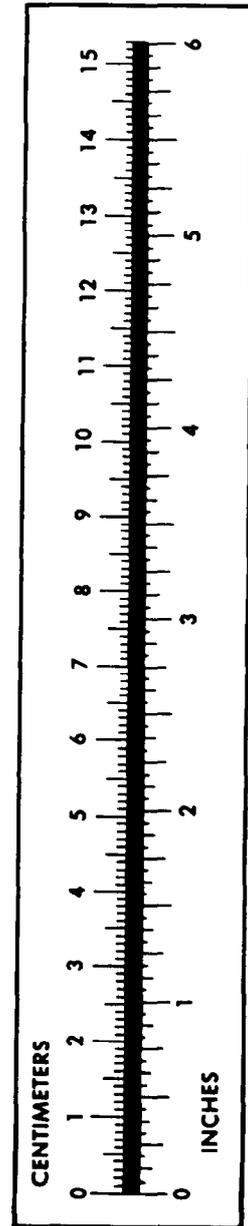
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



PIN: 034778-000