TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS FOR

RADIAC SET AN/PDR-27P (NSN 6665-00-975-7222)

HEADQUARTERS, DEPARTMENT OF THE ARMY 4 JANUARY 1978

TECHNICAL MANUAL No. 11-6665-224-20P

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC, 4 January 1978

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS FOR

RADIAC SET AN/PDR-27P (NSN 6665-00-975-7222)

Current as of 24 September 1977

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In either case a reply will be furnished direct to you.

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| | 0101 Printed circuit board (A3) (No parts authorized) | |
| 02 | Radiac Detector DT-196/PDR-27J (No parts authorized) | |
| 03 | Headset H-43 B/U (See TM 11-5965-247-12P for parts) | |
| 04 | Case, Carrying CY-2312/PDR-27L (No parts authorized) | |
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Code

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 organizational maintenance of the AN/PDR-27P. 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

Code

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:

Definition

PA - Item procured and stocked for anticipated or known usage.

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:

Application/Explanation

O - Support item is removed, replaced, used at the organizational level.

(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

H - The lowest maintenance level capable of complete repair of the support item is the general support 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.
- D Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

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,

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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 SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

J. 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

a. The following publications pertain to the AN/ PDR-27P and its components:

TM 11-5965-247-12P, Headset, Electrical H-43B/U TM 11-6665-224-15, Radiac Set AN/PDR-27P

b. The illustrations in this manual are identical to those published in TM 11-6665-224-40P. Only

those parts assigned the third position SMR maintenance code "C" or "O" are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational authorized items appear in this manual.

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.)

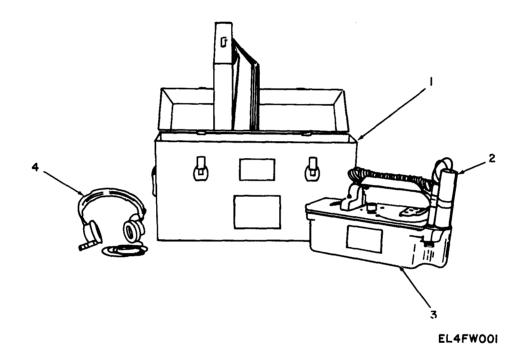
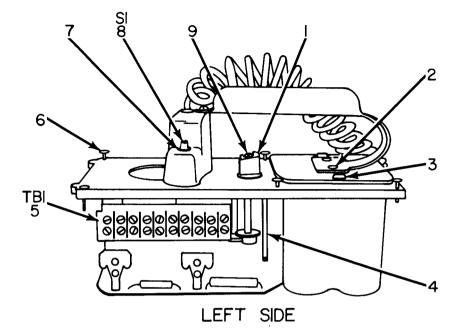


Figure 1. Radiac Set AN/PDR-27P.

TM11-6665-224-20P

| SECTI | ON IV | | | | | | | |
|-------|---------|-------|------------------|-----------------|-------|------------------------------|-------------|------|
| (1) | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| ILLUS | TRATION | | | | | | | QTY |
| (a) | (b) | | NATIONAL | | | DESCRIPTION | | INC |
| FIG | ITEM | SMR | STOCK | PART | | | | IN |
| NO. | NO. | CODE | NUMBER | NUMBER | FSCM | | USABLE OU\M | UNIT |
| | | | | | | GROUP 00 RADIAC SET AN/PDR-2 | 7₽ | |
| 1 | 1 | PAOZZ | 6665-00-618-9945 | CY-2312/PDR-27L | 80058 | CASE, CARRYING | EA | 1 |
| 1 | 3 | PAOHD | 6625-00-078-4179 | IM177PDR27P | 80058 | RADIAC METER | EA | 1 |

5



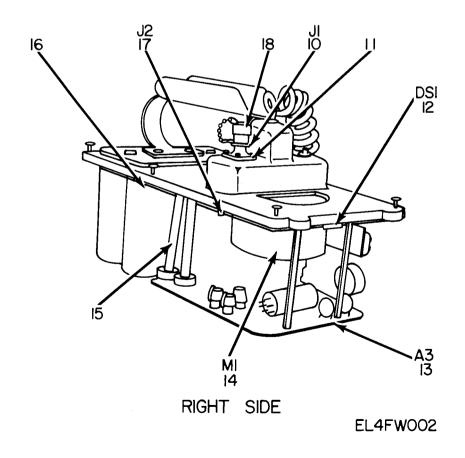


Figure 2. Radiac Meter IM-177/PDR-27P.

TM11-6665-224-20P

| SECTIC | N IV | | | | | | | |
|--------|--------|--------|------------------|---------|-------|--------------------------------------|-------|------|
| (1) | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| ILLUSI | RATION | | | | | | | QTY |
| (a) | (b) | | NATIONAL | | | DESCRIPTION | | INC |
| FIG | ITEM | SMR | STOCK | PART | | | | IN |
| NO. | NO. | CODE | NUMBER | NUMBER | FSCM | USABLE ON CO | D U∖M | UNIT |
| | | | | | | | | |
| | | | | | | GROUP 01 RADIAC METER IM-177/PDR-27P | | |
| | | | | | | | | |
| 2 | 1 | PAOZZ | 5355-00-656-1275 | 3651527 | 94988 | KNOB | EA | 1 |
| | | | | | | | | |
| 2 | 2 | PAOZZ | 5305-00-685-1799 | 11383 | 94988 | SCREW,EXT RLV BODY | EA | 2 |
| 2 | 3 | PAOZZ | 5305-00-947-7033 | 11364 | 94988 | SCREW, SEAL | EA | 2 |
| 2 | 2 | PAOZZ | 5305-00-947-7035 | 11204 | 94900 | SCREW, SEAL | LA | 2 |
| 2 | 4 | PAOZZ | 6665-00-675-9415 | 3061503 | 94988 | PLATE, DETENT | EA | 1 |
| - | - | 111022 | 0000 00 070 9110 | 5001505 | 51500 | 1 | 2 | - |
| 2 | 6 | PAOZZ | 5305-00-685-1800 | 11414 | 94988 | SCREW, EXT RLV BODY | EA | 7 |
| | | | | | | | | |
| 2 | 7 | PAOZZ | 5930-00-950-4541 | 11365 | 97539 | NUT, SEAL | EA | 1 |
| | | | | | | | | |
| 2 | 9 | PAOZZ | 5305-00-281-3118 | 3201505 | 94988 | SCREW, SET | EA | 2 |
| | | | | | | | | |
| 2 | 11 | PAOZZ | 5355-00-656-1275 | 902-1 | 86579 | GASKET | EA | 1 |
| | | | | | | | | |
| 2 | 16 | PAOZZ | 5330-00-542-1752 | 1320048 | 70064 | GASKET | EA | 1 |
| | | | | | | | | |

7

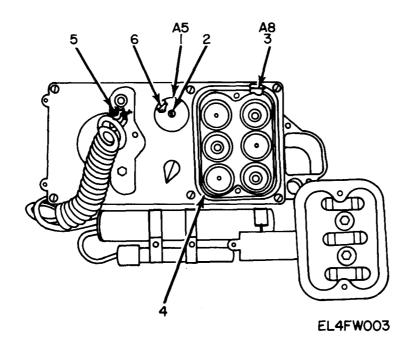


Figure 3. Radiac Meter IM-177/PDR-27P.

SECTION IV (5) (4) (7) (8) (1) (2) (3) (6) ILLUSTRATION QTY (a) (b) NATIONAL DESCRIPTION INC FIG ITEM SMR PART IN STOCK NO. NO. CODE NUMBER NUMBER FSCM USABLE ON CODE U∖M UNIT 3 1 PAOZZ 6665-00-675-9401 11319 94988 CAP, ALUMINUM EA 1 3 2 PAOZZ 5305-00-947-7033 11364 94988 SCREW, SEAL EA 1 3 4 PAOZZ 5330-00-542-1753 521-1320047 15249 GASKET 1 EA 3 6 PAOZZ 5355-00-656-1275 902-1 86579 GASKET EA 1

9

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TM11-6665-224-20P

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

| STOCK NUMBER | FIGURE NO. | ITEM NO. | STOCK NUMBER | FIGURE NO. | ITEM NO. | | |
|------------------|---------------|-------------|------------------|---------------|-------------|-----|------|
| 6665-00-078-4179 | 1 | 3 | 6665-00-675-9415 | 2 | 4 | | |
| 5305-00-281-3118 | 2 | 9 | 5305-00-685-1799 | 2 | 4 | | |
| 5330-00-542-1752 | 2 | 16 | 5305-00-685-1800 | 2 | 6 | | |
| 5330-00-542-1753 | 3 | 4 | 5305-00-947-7033 | 2 | 3 | | |
| 5355-00-656-1275 | 2 | 1 | 5305-00-947-7033 | 3 | 2 | | |
| 6665-00-675-9401 | 3 | 1 | 5930-00-950-4541 | 2 | 7 | | |
| PART | | FIG | ITEM | PART | | FIG | ITEM |
| NUMBER | FSCM | NO | NO | NUMBER | FSCM | NO | NO |
| CY-2312/PDR-27L | 80058 | 1 | 1 | 1320048 | 70064 | 2 | 16 |
| IM177PDR27P | 80058 | 1 | 3 | 3061503 | 94988 | 2 | 4 |
| 11319 | 94988 | 3 | 1 | 3201505 | 94988 | 2 | 9 |
| 11364 | 94988 | 2 | 3 | 3651527 | 94988 | 2 | 1 |
| 11364 | 94988 | 3 | 2 | 521-1320047 | 15249 | 3 | 4 |
| 11365 | 97539 | 2 | 7 | 902-1 | 86579 | 2 | 11 |
| 11383 | 94988 | 2 | 2 | 902-1 | 86579 | 3 | 6 |
| 11414 | 94988 | 2 | 6 | | | | |

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

| STOCK NUMBER | FIG. NO. | ITEM NO. |
|------------------|-------------|-------------|
| 6665-00-618-9945 | 1 | 1 |
| 5355-00-656-1275 | 2 | 11 |
| 5355-00-656-1275 | 3 | б |

By Order of the Secretary of the Army:

BERNARD W. ROGERS

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Official:

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| | | | THEN. DOPE A FORM. | Stateside, N.J. 07703 DATE 10 July 1975 |
|-------------|----------------|---------------|---|---|
| | | | | DATE |
| | -5840 -3 | - | PEITIS | 23 Jan 74 Radar Set AN/200-76 |
| PAGE NO. | PARA- GRAPH | FIGURE NO. | | AND WHAT SHOULD BE DONE ABOUT IT: |
| 2-25 | 2-28 | | | Recommend that the installation antenna alignment procedure be changed throughout 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 1° knots, and has a tendency to rapidly accelerate and recelerate 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 angustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjust- |
| 5-6 | 5-8 | | | ment to light the TRANS POWER FAULT indicator. Add new step f.l to read, "Replace cover plate removed in the place.l, above." REASON: To replace the cover plate. |
| | | FO3 | 2 | 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. |
| | | | | |
| | ME.GRADE | | | 14 PHONE NUMBER SIGN HERE: |

| /\`\ | | | S | OME | THI | NG | WRO |)NG with | THIS MANUAL? |
|---------|-----------|----------|-----------------|---|----------------------|-----------|------------------|--------------|--------------|
| | | 5 | DOPE A FORM, | .JOT DOW BOUT IT C TEAR IT O DROP IT I | N THIS UT, FOLD | | YOUR UNIT' | COMPLETE ADD | RESS) |
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| 14 | 11-61 | | | 4-20T | | in 78 | 7 | | |
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REVERSE OF DA FORM 2028-2 (TEST)

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

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 | |
| Square Feet | Square Meters | |
| Square Yards | Square Meters | |
| Square Miles | Square Kilometers | |
| Acres | Square Hectometers | |
| Cubic Feet | Cubic Meters | |
| Cubic Yards | Cubic Meters | |
| Fluid Ounces | Milliliters | |
| its | Liters | |
| arts. | Liters | |
| _allons | Liters | |
| Ounces | - | |
| Pounds | Grams Kilograms | |
| Short Tons | | |
| Pound-Feet | Metric Tons Newton-Meters | |
| | | |
| Pounds per Square Inch | Kilopascals | 6.895 |
| | | |
| Miles per Gallon | Kilometers per Liter | 0.425 |
| Miles per Gallon Miles per Hour | Kilometers per Liter Kilometers per Hour | 0.425 |
| Miles per Hour | Kilometers per Liter Kilometers per Hour | 0.425 1.609 MULTIPLY BY |
| Miles per Hour | Kilometers per Hour | 1.609 Multiply by |
| Miles per Hour I O CHANGE Centimeters | Kilometers per Hour | 1.609 MULTIPLY BY 0.394 |
| Miles per Hour I O CHANGE Centimeters Meters | Kilometers per Hour TO Inches | 1.609 MULTIPLY BY 0.394 3.280 |
| Miles per Hour I O CHANGE Centimeters Meters Meters | Kilometers per Hour TO Inches Feet | 1.609 MULTIPLY BY 0.394 3.280 1.094 |
| Miles per Hour O CHANGE Centimeters Meters. Meters. Kilometers | Kilometers per Hour TO Inches Feet Yards Miles | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 |
| Miles per Hour O CHANGE Centimeters Meters Meters Kilometers Square Centimeters | Kilometers per Hour TO Inches Feet Yards Miles Square Inches | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 |
| Miles per Hour O CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters | Kilometers per Hour TO Inches Feet Yards Miles Square Inches Square Feet | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 |
| Miles per Hour | Kilometers per Hour TO Inches Feet Yards Miles Square Inches Square Feet Square Yards | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 |
| Miles per Hour O CHANGE Centimeters Meters. Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers | Kilometers per Hour TO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 |
| Miles per Hour O CHANGE Centimeters Meters. Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers | Kilometers per Hour TO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 |
| Miles per Hour O CHANGE Centimeters Meters | Kilometers per Hour TO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles. Acres Cubic Feet | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315 |
| Miles per Hour O CHANGE Centimeters Meters | Kilometers per Hour IO Inches Feet Yards Miles Square Inches Square Feet. Square Yards Square Miles. Acres Cubic Feet Cubic Yards | 1.609 MULTIPLY BY |
| Miles per Hour O CHANGE Centimeters Meters Kilometers Square Centimeters Square Meters Square Meters Square Kilometers Square Hectometers Cubic Meters Milliliters | Kilometers per Hour IO Inches Feet Yards Miles Square Inches Square Feet Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 10.764 1.196 2.471 35.315 1.308 0.034 |
| Miles per Hour O CHANGE Centimeters Meters Meters Square Centimeters Square Meters Square Meters Square Kilometers Square Hectometers Cubic Meters Cubic Meters Milliliters Liters | Kilometers per Hour IO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints | 1.609 MULTIPLY BY |
| Miles per Hour O CHANGE Centimeters | Kilometers per HourIOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuarts | 1.609 MULTIPLY BY |
| Miles per Hour | Kilometers per HourIOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic FeetCubic YardsFluid OuncesPintsQuartsGallons | 1.609 MULTIPLY BY |
| Miles per Hour | Kilometers per HourIOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOunces | 1.609 MULTIPLY BY |
| Miles per Hour | Kilometers per HourIOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare WilesAcresCubic FeetCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPounds | 1.609 MULTIPLY BY |
| Miles per Hour | Kilometers per HourTOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort Tons | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 1.057 0.264 0.035 2.205 1.102 |
| Miles per Hour | Kilometers per Hour TO Inches Feet | |
| Miles per Hour | Kilometers per HourIOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort TonsPounds per Square Inch | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035 2.205 1.102 0.738 0.145 |
| .ms | Kilometers per Hour TO Inches Feet | 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035 2.205 1.102 0.738 0.145 |

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

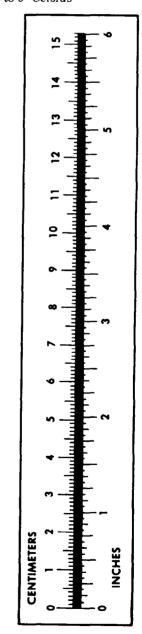
 $5/9(^{\circ}F - 32) = ^{\circ}C$

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {}^{\circ}F$



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