# HAND RECEIPT COVERING CONTENTS OF COMPONENTS OF END ITEM (COEI), BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL) FOR

# TRACTOR, FULL TRACKED LOW SPEED: DIESEL ENGINE-DRIVEN-MEDIUM-DRAWBAR-PULL

MODEL	NSN
TRACTOR WITH RIPPER	2410-01-223-0350
TRACTOR WITH RIPPER AND	2410-01-253-2118
WINTERIZED CAB	
TRACTOR WITH WINCH	2410-01-223-7261
TRACTOR WITH WINCH AND	2410-01-253-2117
WINTERIZED CAB	

Approved for Public Release; Distribution is Unlimited

HEADQUARTERS, DEPARTMENT OF THE ARMY 23 NOVEMBER 1992

HEADQUARTERS DEPARTMENT OF THE ARMY Washington D.C., 23 November 1992

Hand Receipt

TM 5-2410-237-10-HR

### HAND RECEIPT COVERING CONTENTS OF COMPONENTS OF END ITEM (COEI), BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL) FOR SSN M061 TRACTOR, FULL TRACKED LOW SPEED: DIESEL ENGINE-DRIVEN-MEDIUM-DRAWBAR-PULL

MODEL	NSN
TRACTOR WITH RIPPER	2410-01-223-0350
TRACTOR WITH RIPPER AND WINTERIZED CAB	2410-01-253-2118
TRACTOR WITH WINCH	2410-01-253-7261
TRACTOR WITH WINCH AND WINTERIZED CAB	2410-01-253-2117

## **REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Commander, US Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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## Section I. INTRODUCTION

1. SCOPE. This publication provides an overprinted DA form 2062 (Hand Receipt) which lists the contents of Components of End Item (COE I), Basic Issue Items (BI I), and Additional Authorization List (AAL) items related to the MO61.

2. GENERAL.

a. Section II is the overprinted DA Form 2062 which lists the contents of COEI, BII, and AAL extracted from TM 5-2410-237-10. The listings consist of exactly the same items and are in the same sequence as those listings in TM 5-2410-237-10.

b. The overprinted DA Form 2062 will eliminate manual preparation of the form and will assist organizations in inventorying and accounting for property as required by AR 710-2.

c. Local reproduction of the overprinted DA Form 2062 is authorized. However, organizations shall comply with local policies in the reproduction of DA Form 2062 by office copying equipment, field printing plant, or duplicating plant facilities.

d. Additional copies may be requisitioned from the U.S. Army Adjutant General Publications Center, 1655 Woodson Road, St. Louis, MO 63114 in accordance with AR 25-30.

### 3. EXPLANATION OF BLOCKS AND COLUMNS (DA FORM 2062).

A <u>From.</u> Enter the organization for which the property book is maintained.

b. To. Enter the Unit Identifier Code (UIC) and the hand receipt file number of the unit/personnel receiving the property.

c. <u>Hand Receipt Number</u>. Enter a locally designated number. Use it to post the location of property in the property book.

d. <u>End Item Stock Number</u>. Contains the National Stock Number (NSN) of the end item covered by the hand receipt.

e. End Item Description. Contains the end item short title.

f. <u>Publication Number</u>. Contains the TM number of the technical manual containing the Operator/Crew instructions for the equipment.

g. <u>Publication Date</u>. Date of the Operator/Crew TM.

h. <u>Quantity</u>. Quantity of the end item covered by this hand receipt.

1-1

i. Stock Number (Column a). National stock number of the item described. Items without stock numbers should be requisitioned by Commercial and Government Entity (CAGE) code and part number with exception data in accordance with AR 710-2.

j. Item Description (Column b). Identifies the item contained in the COEI, BII, and the AAL. It will also contain nomenclature, serial/USA number (if applicable) that will be useful in identifying and controlling the item. Serial number is to be inserted and initialed on all copies by hand receipt holder. In addition, it will contain the 5-digit Commercial and Government Entity (CAGE) code, Part Number (P/N) and "Usable on" code if applicable.

"Used on" codes, listed in the "Description" column, identify which items are used on different models. Codes used in this hand receipt are:

USED ON CODE	MODEL
(BLANK	All
A	TRACTOR WITH RIPPER
AC	TRACTOR WITH RIPPER AND
	WINTERIZED CAB
В	TRACTOR WITH WINCH
BC	TRACTOR WITH WINCH AND
	WINTERIZED CAB

k. (Column c). The Accounting Requirements Code (ARC) is entered here.

### NOTE

The Accounting Requirements Code (ARC) refers to property accountability, not to disposal authority. Disposition action and authority for an unserviceable item is governed by the recoverability code (5<sup>th</sup> position of the SMR code) assigned to the item in the RPSTL.

One of the following codes will apply:

Ν	for Non-expendable:	Items not consumed in use, retaining their identity during use, and requiring that accountability be maintained throughout the life of the item.
D	for Durable:	Non-consumable components of sets, kits, outfits and assemblages; all tools in FSC's 5110, 5120, 5130, 5133, 5140, 5180, 5210, 5220 and 5280; and any other non-consumable with a price in excess of \$50.00 not already "N".
Х	for Expendable:	Items, regardless of type classification or price and which are consumed in use. Includes all class 9 repair parts. Items not consumed in use which cost \$50.00 or less and not already "N" or "D".
(•)	Stands for:	Information not available.

I. SEC (Column d). The Physical Security/Pilferage code is entered here. This is a one-position code which indicates the security classification or pilferage control for storage or transportation of assets. Order of precedence for assignment of codes is classified, sensitive, pilferable, unclassified, as applicable.

SEC	
CODE	Physical Security Code
А	CONFIDENTIAL - Former Restricted Data
В	CONFIDENTIAL - Restricted Data
С	CONFIDENTIAL
D	CONFIDENTIAL - Cryptologic
E F	SECRET - Cryptologic
	TOP SECRET - Cryptologic
G	SECRET - Former Restricted Data
Н	SECRET - Restricted Data
К	TOP SECRET - Former Restricted Data
L	TOP SECRET - Restricted Data
0	Naval Nuclear Propulsion Information
S T	SECRET
	TOP SECRET
U	UNCLASSIFIED
	Sensitive Items
Р	Ammunition and Explosives
Q	An item which is a drug or other substance determined by the Director, Drug Enforcement Administration (DEA), Department of Justice, to be designated
schedule symbol III, IV or V as defined i requiring secure storage.	in the Controlled Substance Act of 1970, and other items
R	Alcohol, alcoholic beverages, precious metals, drug or other substance determined by the Director, Drug Enforcement Administration (DEA), Department of Justice, to be designated schedule symbol II as defined in the Controlled Substance Act of 1970, and other items requiring vault storage.
7	Sensitive information, prior to disposal, all nameplates, label plates, tags, stickers, documents or markings, which relate items to weapons system end item application, must be removed and destroyed.

1-3

	TM 5-2410-237-10-HR	
sk Code		

CODE	Ammunition and Explosives Security Risk Code
1	Highest Sensitivity (Category I) - Non-nuclear missiles and rockets in a "ready to fire" configuration (e.g., Hamlet, Redeye, Stinger, Dragon, LAW, VIPER) and explosive rounds for non-nuclear missiles and rockets. This category also applies in situations where the launcher (tube) and explosive rounds, though not in a "ready to fire" configuration, are jointly stored or transported.
2	High Sensitivity (Category II) - Arms, Ammunition, and Explosives.
3	Moderate Sensitivity (Category III) - Arms, Ammunition, and Explosives.
4	Low Sensitivity (Category IV) - Arms, Ammunition, and Explosives.
5	Highest Sensitivity (Category I) - Arms, Ammunition, and Explosives with a physical security classification of SECRET.*
6	Highest Sensitivity (Category I) - Arms, Ammunition, and Explosives with a physical security classification of CONFIDENTIAL.*
8	High Sensitivity (Category II) - Arms, Ammunition, and Explosives with a physical security classification of CONFIDENTIAL.*
	Pilferable Items
I	Aircraft engine equipment and parts
M Firearms	Handtools and shop equipment
V	Individual clothing and equipment
W	Office Machines
X Y	Photographic equipment and supplies Communications/electronic equipment and parts
Z	Vehicular equipment and parts J Pilferable item, due to its size, shape and utility, which does not fall under one of the above categories. Pilferage controls may be designated by the coding activity to items coded U (unclassified) by
oding the items to 1	

recoding the items to J.

Ν

SEC

m. UI (Column e). Unit of Issue. Refer to AR 708-1 and/or CDA Pam 18-1 (Catalog Data Activity) for explanation of abbreviations used in this column.

n. QTY AUTH (Column f). The quantity authorized to be on hand, or part of the end item.

\* Items coded 5, 6, or 8 will be stored and transported in accordance with the provisions of DOD 5100. 76-M or DOD 5200. 1-R, whichever is more stringent.

1-4

o. <u>Quantity (Column g)</u>. Actual quantity on hand. Subcolumn A through F are to be filled in by the receiving unit/personnel in accordance with DA PAM 710-2-1, chapter 6.

p. <u>Page No./No. of Pages</u>. Contains page number and total number of pages for the COEI, BI I, and AAL portions of the hand receipt. Hand receipt holder will initial each page No. (only when two or more forms are involved). When hand receipt holders change, the old initials will be lined out and the new hand receipt holder will initial each page.

## 4. SPECIAL INFORMATION: Not applicable.

## 5. AUTHORIZATION DOCUMENTS

- a. Components of End Items (COEI) are authorized by the applicable operator's manual.
- b. Basic Issue Items (BI I) are authorized by the applicable operator's manual.

c. Additional Authorization List (AAL) items are authorized by the appropriate MTOE, TDA, CTA, or JTA authorization documents.

## 1-5/(1-6 blank)

HAND RECEIPT/ For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG			FROM TO					)							
TON	END ITEM STOCK NUMBER SEE SERIES BELOW	END ITEM DESCRIPTION TRACTOR, TYPE I AND IIA	PUBLICA TM 15-24			BER	P	UBLICAT	ION E	DATE	QL	JANT	ITY 1		
S	TOCK NUMBER	ITEM DESCRIPTION	Used On Co	ode	*	SEC	UI	QTY AUTH	g.		QUAN	UANTITY			
a.		<i>b</i> .		С.		d.	е.	f.	Α	В	С	D	Ε	F	
2410-01-22	23-0350 TI	RACTOR WITH RIPPER,	А					1							
	W	o WINTERIZED CAB													
2410-01-25	52 0110 TT	RACTOR WITH RIPPER	AC					1						–	
2410-01-25		ITH WINTERIZED CAB.													
		RACTOR WITH WINCH o WINTERIZED CAB						1							
2410-01-25		RACTOR WITH WINCH, ITH WINTERIZED CAB	BC					1							
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		*	SEC	UI	AUTH	g.	QUANTITY					
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HAND RECEIPT/ For use of this form, see DA PAM 710 The proponent agency is ODCSLO			2-1.			ТО				HAND RECEIPT NUMBER								
FOR ANNEX/	END ITEM STOCK NUMBE		PUBLICAT			R	Р	UBLICAT	ION E	DATE	QUANTITY							
CR ONLY	SEE SERIES BELOW		ACTOR, TYPE I AND IIA		110113-241	0-237-10	)						1					
:	STOCK NUMBER		ITEM DESCRIPTION	U	sed On Cod		ę	SEC	UI	QTY AUTH	g.							
	a.		DNENTS OF END ITEM (COEI)			С.		d.	е.	<i>f.</i>	Α	В	С	D	E	F		
										•								
53-5-00-7	24-7218	BOLT: I	nex head capscrew 5/8-11 X 1 II	N. (9	96096)	N		U	EA	9						-		
		ms 0-72			B,BC													
5305-00-7	782-9489	BOLT: I	nex head capscrew 3/8-16 x 2 ir	n. (96	6906	N		U	ΕA	8								
		MS 907	8-66		A,AC													
5305-00-0	071-2069	BOLT: I	nex head capscrew 1/2-18 x 1 1/2	(969	906)	N		U	ΕA	4								
			)728-113		B,BC													
5306-00-2	226-4833	BOLT: I	nex head capscrew 5/16-18 x 2	in. (9	96906)	N		U	ΕA	8								
		MS 1907																
5305-00-0			For winch cover storage on fuel	tank	· · · ·													
		MS 907			B,BC	N		U	ΕA	1								
4730-00-0			1083) 9S8896			N		U	ΕA	1								
2815-01-1			t: for hydraulic hoses (110830 5			N		U	ΕA	4								
5340-01-2			t: for hydraulic hoses (11083) 2.			N		U	ΕA	1								
3895-01-0		COVER	t: for hydraulic hoses (11083) 5ዞ	401	17	N		U	ΕA	4								
H		RS FU	Annex Number RNITURE, enter Condition Co TS RECEIPT, enter Accountin			s Code (	ARC	)										
													PAGE	3 OF	12PA	GES		

STOCK NUMBER	ITEM DESCRIPTION Used On Code	*	SEC	UI	QTY AUTH	g. QUANTITY							
	(COEI) continued												
2520-00-569-3839	COVER: for winch spline opening (11083) 2A1465 B,B	C N	U	EA	1								
2910-00-046-9727	CYLINDER ASSEMBLY, Ether (611120 lp-535-1	X	U	EA	1								
2915-00-962-9008	ELBOW: for adapter tool (11083) 307950 B,B	C N	U	EA	1								
4730-01-051-5256	FLANGE, ½: for hydraulic hose clamp A,A	C N	U	EA	8								
	(11083) 1p4579												
5340-00-007-9934	FLANGE, 1/2: for hydraulic hose clamp	N	U	EA	2								
5330-01-302-9890	GASKET: for ether cylinder (11083) 7N9801	Х	U	EA	1								
5330-00-149-7248	GASKET: for winch spline opening (11083) 2A1466 B,B	С											
2530-01-269-4804	JUNCTION BLOCK: for winch assembly B.B	C N	U	EA	1								
	(110830 5R7848												
5310-00-732-0558	NUT, HEX: for hydraulic hose cover flange (96906)	N	U	EA	8								
	MS 51967—8												
5310-00-880-7744	NUT,HEX: for hydraulic hose cover flange (96906) A,A	C N	U	EA	8								
5365-01-032-2194	PLATE: (11083) 2K5644 A,A	C N	U	EA	2								
5340-01-270-1800	PLATE: (11083) 3H6274	N	U	EA	2								
5340-01-272-8426	PLUG: (11083) 5P1004 B,E	C N	U	EA	2		1						

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HAND RECEIPT/ For use of this form, see DA PAM 710 The proponent agency is ODCSLO			1. FROM TO							HAND RECEIPT NUMBER							
FOR ANNEX/ CR ONLY	END ITEM STOCK NUMBER		D ITEM DESCRIPTION ACTOR, TYPE I AND IIA	<b>ГІОN N</b> 0-237-	-	BER	P	UBLICAT	ION E	QUANTITY 1							
;	STOCK NUMBER		ITEM DESCRIPTION	Used On Coc	le	*	SLU	UI	QTY AUTH	g.		1	QUANTITY				
a.							d.	е.	f.	Α	В	С	D	E	F		
		COEI)	continued						1						—		
<u></u>	244.0004					V			1						<u> </u>		
5330-00-9		SEAL: FOR WINCH SPLINE HUB (11083) 3D2824 B,BC SEAL: for hydraulic hose cover (11083) 4J524 B,BC				<u>Х</u> Х	U U	EA EA	1								
5330-00-9 5330-00-9				,		<u>х</u> Х	U	EA	4						-		
5120-01-2		SEAL: for hydraulic hose cover (11083) 4J5140 TOOL, DRAIN: (11083) 5R6278 (for transmission)				<u>^</u> N	U	EA	4						-		
5120-01-2			but and final drive filler plug)	5111551011)			0	LA	1								
5310-00-8		WASHER: for hydraulic hose flange B,BC			BC	N	U	EA	4								
			MS 27183-17	2,1			0	<u> </u>	,								
5310-00-0			R: for hydraulic hose flange			N	U	EA	8								
			MS 27183-12				_		-								
5310-01-0	098-0624	WASHÉ	R: for winch cover storage on fue	el tank B,I	BC	Ν	U	ΕA	1								
		(11083)	5P8245														
5310-00-0	003-9174	WASHE	R: for winch spline cover bolts	B,I	BC	Ν	U	ΕA	9								
		(96906)	MS 27183-21														
H		RS FU	Annex Number RNITURE, enter Condition Code TS RECEIPT, enter Accounting		s Code	e (Al	RC)					PAGE	5 OF	12PA	GE		

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;	STOCK NUMBER		ITEM DESCRIPTION	Used On Co	de *	SEC	UI	QTY AUTH	g.		QUAN	ΙΤΙΤΥ		
	a.				С.	d.	е.	f.	Α	В	С	D	Е	F
			BASIC ISSUE ITEMS (B	311)					<u> </u>					—
			CATION CHART: LO 5-24-10-237	7-12	N	U	EA	1						┼──
			AL, HAND RECEIPT: TM 5-2410-		N	U	EA	1						$\vdash$
			L, OPERATORS: TM5-2410-037		N	U	EA	1						<u> </u>
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STOCK NUMBER	<b>ITEM DESCRIPTION</b>	Used On Code	*	SEC	UI	QTY AUTH	g.	(	QUAN	ΤΙΤΥ	

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	HAND RECEIPT/ of this form, see DA PAM 7 proponent agency is ODCSL		FROM	r	0						HANI NUM	D REC BER	EIPT	
FOR ANNEX/ CR ONLY	END ITEM STOCK NUMBE SEE SERIES BELOW		D ITEM DESCRIPTION ACTOR, TYPE I AND IIA	PUBLICAT TM 15-241		IBER	P	PUBLICAT	ION E	DATE	QL	ΤΥ 1		
;	STOCK NUMBER		ITEM DESCRIPTION	Used On Cod	e *	SEC	UI	QTY AUTH	g.	(	QUAN	ΙΤΙΤΥ		
	а.				С.	d.	е.	f.	Α	В	С	D	Е	F
			ADDITIONAL AUTHORIZATION L	LIST (AAL)										—
4930-00-2	204-2550	ADAPT	ER: GREASE GUN COUPLING:	grease gun	X	U	EA	1						┼──
			n-stem 6 in. Long, type IV, class 2,					1						
		534974	.4	· · · · ·				1						
5110-00-2	293-2336	AX: sin	gle bit, 4 lb head weight, 4-3/4 in.	cutting edge,	D	U	EA	1						
			in. to 361/2 in. long, type I, class 1	, design A,										
		olive dr	ab finish (19207) 6150925											
2540-00-6	670-2459	BAG: p	amphlet, cotton duck 3 in. x 9-1/4	x 11-1/4 in.	Ν	U	EA	1						
			partment behind operator's seat (1	9207)										
		796171												
5140-00-3	315-2775		ool, cotton duck 10 in. x 20 in. w/fla	ар										
		(81337												
2590-00-4	173-6331		ET ASSEMBLY, LIQUID CONTA	INER: Strap	Х	U	EA	1						
		Assem	oly included (19207) 6566675											
H. H		ERS FU	Annex Number RNITURE, enter Condition Code TS RECEIPT, enter Accounting		s Code (A	RC)	1	1	1	1	PAGE	9 OF	12PA	

STOCK NUMBER	ITEM DESCRIPTION Used On Code	*	SEC	UI	QTY AUTH	g.	(	QUAN <sup>.</sup>	ΤΙΤΥ	
	(AAL) continued									
7240-00-242-6153	CAN: water, MIL type, 5 gallon (19207) 11655980	X	U	ΕA	1					
7240-00-222-3088	CAN: gasoline, MIL type, 5 gallon, (81902) 14196P1	X	U	ΕA	1					
4010-00-473-6166	CHAIN ASSEMBLY:, tow, single leg, 5/8 in. link,	Х	U	EA	1					
	16 ft. Long, w/grab hook, w/2 pear-shaped coupling									
	links, olive drab finish (19207) 7077063									
4930-00-288-1511	EXTENSION: grease gun, flex hose, 11 in. long to	X	U	ΕA	1					
	14 in. long (19207) 6300333									
4210-00-775-0127	EXTINGUISHER, FIRE, DRY CHEMICAL: stored	Х	U	EA	1					
	pressure discharge, hand operated, 5 lb. Nominal									
	capacity (19207) 7015266									
6545-00-922-1200	FIRST AID KIT: general purpose, 12 unit	X	U	ΕA	1					
	(19207) 11677011									
6230-00-264-8261	FLASHLIGHT: electric, hand, 2-cell, w/lamp and	X	U	ΕA	1					
	lens filter, w/o batteries, type I class A (21108)									
	MX991-U									
4830-00-223-3391	GREASE GUN: hand, lever operated, 14 oz	X	U	ΕA	1					
	cartridge or bulk load (19207) (5644803)									[

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	HAND RECEIPT/ of this form, see DA PAM proponent agency is ODCS		FROM	Т	O						HANI NUMI	-	EIPT		
FOR ANNEX/ CR ONLY	END ITEM STOCK NUME SEE SERIES BELOW		ND ITEM DESCRIPTION RACTOR, TYPE I AND IIA	PUBLICAT TM 15-2410			F	UBLICAT			TE QUANTITY 1				
;	STOCK NUMBER		ITEM DESCRIPTION	Used On Cod	e *	SEC	UI	QTY AUTH	g.	1	QUAN	r			
			(AAL) continued			d.	е.	f.	Α	В	С	D	E	F	
														<del> </del>	
5120-00-0	061-8546	HAMM	IER: hand, mechanist's, ball-peen	. 2 lb., 15 in.	D	U	EA	1							
			n. lg. Type II, class 1, style A (in to					1						<u> </u>	
			e right side) (81348) GGG-H-86					1							
5120-00-2	288-6574	HAND	LE: mattock, pick, railroad or clay	pick	D	U	EA	1							
			long, olive drag finish grade AA (19												
5120-00-2	243-2395		FOCK:, pick type, 5 lb. W/o handle		D	U	EA	1							
			type II, class F (19207) 11677022												
4930-00-2	26609182		R: hand, push button, 8 oz. Capacit	ty, 4 in. long	Х	U	EA	1							
			(96906) MX 15764-1												
5120-00-2	293-3336	SHOV	EL: hand, round point, D handle, s	short size	<u> </u>	U	EA	1							
								1							
						-								—	
H. H		TERS F	t Annex Number URNITURE, enter Condition Cod NTS RECEIPT, enter Accounting		Code (A	IRC)	<u> </u>	1	<u> </u>			<u> </u>	12PA		

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STOCK NUMBER	ITEM DESCRIPTION	Used On Code	*	SEC	UI	QTY AUTH	g.	(	QUAN	ΤΙΤΥ	

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By Order of the Secretary of the Army:

GORDON R. SULLIVAN General, United States Army Chief of Staff

Official:

Mitto of dunto

MILTON H. HAMILTON Administrative Assistant to the Secretary of the Army 03160

Distribution:

To be distributed in accordance with DA Form 12-25-E, Block No. 5973, Hand Receipt requirements for TM 5-2410-237-10-HR.

\*U.S. GOVERNMENT PRINTING OFFICE: 199S 3U-421/0335

DOPE AN CAREFU	RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS SOMETHING WRONG WITH PUBLICATION FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS) FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS) FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS) DATE SENT
PUBLICATION NUMBER	PUBLICATION DATE PUBLICATION TITLE
BE EXACT PIN-POINT WHERE IT IS PAGE GRAPH FIGURE TAB NO. TAB NO	
PRINTED NAME, GRADE OR TITLE AND	TELEPHONE NUMBER SIGN HERE
DA 1 JUL 79 2028-2	PREVIOUS EDITIONS ARE OBSOLETE. BARE OBSOLETE. P.SIF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

# 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

APPROXIMATE	CONTENSION FACTORS	
TO CHANGE	το	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	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	
Fluid Ounces	Milliliters	
nts	Liters	
arts	Liters	
allons	Liters	
Ounces	Grams	
Pounds	Kilograms	
Short Tons	Metric Tons	
Pound-Feet	Newton-Meters	
Pounds per Square Inch	Kilopascals	
Miles per Gallon	Kilometers per Liter	
Miles per Hour	Kilometers per Hour	1 600
Mines per mour	Infometers per mour	1.005
TO CHANGE	то	MULTIPLY BY
TO CHANGE Centimeters	TO Inches	
		0.394
Centimeters	Inches	0.394 3.280
Centimeters Meters.	Inches Feet	0.394 3.280 1.094
Centimeters Meters Meters Kilometers	Inches Feet Yards Miles	0.394 3.280 1.094 0.621
Centimeters . Meters. Meters. Kilometers Square Centimeters	Inches Feet Yards Miles Square Inches	0.394 3.280 1.094 0.621 0.155
Centimeters . Meters. Meters. Kilometers . Square Centimeters . Square Meters.	Inches Feet Yards Miles Square Inches Square Feet	0.394 3.280 1.094 0.621 0.155 10.764
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters .	Inches Feet Yards Miles Square Inches Square Feet. Square Yards	0.394 3.280 0.621 0.155 10.764 1.196
Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Kilometers	Inches Feet Yards Miles Square Inches Square Feet	0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters .	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres	0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471
Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers Cubic Meters	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet	0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315
Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Kilometers Square Hectometers	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres	0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315 1.308
Centimeters Meters Meters Square Centimeters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers Cubic Meters Cubic Meters Milliliters	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces	0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.34
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters . Square Kilometers . Square Hectometers . Cubic Meters . Cubic Meters . Milliliters . Liters .	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints	0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters . Square Kilometers . Square Hectometers . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters .	Inches Feet Yards Miles Square Inches Square Feet. Square Yards Square Miles. Acres Cubic Feet Cubic Feet Cubic Yards. Fluid Ounces Pints. Quarts	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters . Square Kilometers . Square Hectometers . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters . 'ers .	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints. Quarts Gallons	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters . Square Kilometers . Square Hectometers . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters . ms .	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters . Square Kilometers . Square Hectometers . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters .	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Centimeters . Meters . Meters . Kilometers . Square Centimeters . Square Meters . Square Meters . Square Meters . Square Hectometers . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters . ograms . Metric Tons .	Inches Feet	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Centimeters . Meters . Meters . Square Centimeters . Square Meters . Square Meters . Square Meters . Square Hectometers . Cubic Meters . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters . ograms . Metric Tons . Newton-Meters .	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds Short Tons Pounds-Feet	$\begin{array}{c} 0.394\\ 3.280\\ 1.094\\ 0.621\\ 0.155\\ 10.764\\ 1.196\\ 3.386\\ 2.471\\ 35.315\\ 1.308\\ 0.034\\ 2.113\\ 1.057\\ 0.264\\ 0.035\\ 2.205\\ 1.102\\ 0.738\\ \end{array}$
Centimeters . Meters . Meters . Square Centimeters . Square Meters . Square Meters . Square Meters . Square Hectometers . Cubic Meters . Cubic Meters . Cubic Meters . Milliliters . Liters . Liters . ograms . Metric Tons . Newton-Meters . Kilopascals .	Inches Feet	$\begin{array}{c} 0.394\\ 3.280\\ 1.094\\ 0.621\\ 0.155\\ 10.764\\ 1.196\\ 0.386\\ 2.471\\ 35.315\\ 1.308\\ 0.034\\ 2.113\\ 1.057\\ 0.264\\ 0.035\\ 2.205\\ 1.102\\ 0.738\\ 0.145\\ \end{array}$
Centimeters Meters Meters Square Centimeters Square Meters Square Meters Square Meters Square Hectometers Cubic Meters Cubic Meters Cubic Meters Liters Liters Square Milliliters Liters Square Meters Milliliters Square Meters Square Meters Square Metric Tons Newton-Meters	Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds Short Tons Pounds-Feet	$\begin{array}{c} 0.394\\ 3.280\\ 1.094\\ 0.621\\ 0.155\\ 10.764\\ 1.196\\ 0.386\\ 2.471\\ 35.315\\ 1.308\\ 0.034\\ 2.113\\ 1.057\\ 0.264\\ 0.035\\ 2.205\\ 1.102\\ 0.738\\ 0.145\\ 2.354\\ \end{array}$

### 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

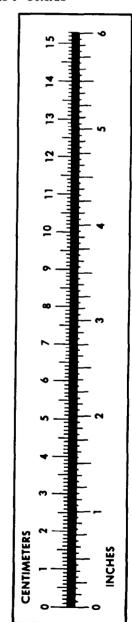
 $5/9(^{\circ}F - 32) = ^{\circ}C$ 

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

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



PIN: 070795-000