## HAND RECEIPT

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

> FUEL SYSTEM, SUPPLY POINT PORTABLE, 60,000 GALLON (NSN 4930-00-142-5313)

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY 15 MAY 1995 **TECHNICAL MANUAL** 

NO. 10-4930-232-10-HR

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON D.C., 15 MAY 1995

HAND RECEIPT

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

## FUEL SYSTEM, SUPPLY POINT PORTABLE, 60,000 GALLON (NSN 4930-00-142-5313)

# 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 these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited. TABLE OF CONTENTS

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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 (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) items related to the FUEL SYSTEM, SUPPLY POINT, PORTABLE, 60,000 GALLON.

#### 2. GENERAL.

a. Section II is the overprinted DA Form 2062 which lists the line item entry for system/end item and the content of COEI, BII, and AAL extracted from TM 10-4930-232-12&P. The listings consist of exactly the same items and are in the same sequence as those listings in TM 10-4930-232-12&P.

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 will 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 Publications Distribution Center, 2800 Eastern Boulevard, Baltimore, MD 21220-2896, in accordance with Chapter 12, AR 25-30.

3. EXPLANATION OF BLOCKS AND COLUMNS (DA FORM 2062). Refer to DA Pam 710-2-1,

Chapter 6, for additional information required to complete DA Form 2062.

a. FROM. Enter the organization, unit, section or squad which issues the property.

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

c. HAND RECEIPT NUMBER. Enter a locally designated number. Use it to post the location of property in the property book.

d. END ITEM STOCK NUMBER. Contains the National Stock Number (NSN) of the end item covered by the hand receipt.

e .END ITEMDESCRIPTION. Contains the end item short title.

f. PUBLICATION NUMBE. Contains the TM number of the technical manual containing the operator/crew instructions for the equipment.

g. PUBLICATION DATE. Date of the operator/crew technical manual.

h. QUANTITY. Quantity of the end item covered by this hand receipt.

i. STOCK NUMBER (column a). National stock number of the item described. Items without stock numbers should be requisitioned by Commercial and Government Entity Code (CAGEC) and part number with exception data in accordance with AR 710-2.

j. ITEM DESCRIPTION (column b). Enter a description of the end item, to include the make or model, and the serial/USA number, followed by item description of COEI, BII, and AAL items. In addition, it will contain the 5-digit Commercial and Government Entity Code (CAGEC), Part Number (P/N), and "Used On Code," if applicable.

k. \*(column c). The Accounting Requirements Code (ARC) is provided here. One of the following ARC's will apply:

### NOTE

The Accounting Requirements Code (ARC) refers to property accountability, not the Recoverability Code (RC). The ARC and the RC are listed in the Army Master Data File (AMDF).

N Nonexpendable:	Items not consumed in use, retaining their identity during use, and requiring that accountability be maintained throughout the life of the item.
D Durable:	Nonconsumable components of sets, kits, out-fits, and assemblages; all tools in FSC's 5110, 5120, 5130, 5133, 5136, 5140, 5180, 5210, 5220, and 5280; and any other nonconsumable with a price in excess of \$50.00 not already "N".
X 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."

I. SEC (column d). The Controlled Inventory Item Code (formerly SEC code) is entered here. This is a oneposition code which indicates the security classification, security risks, or pilferage controls required for storage or transportation of assets. Order of precedence for assignment of codes is classified, sensitive, pilferable, unclassified, as applicable. Codes applicable to this hand receipt are as follows:

SEC CODE CONTROLLED INVENTORY ITEM CODE

U

UNCLASSIFIED PILFERABLE ITEMS

Μ

Handtools and shop equipment

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 recoding the items to J

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.

o. QUANTITY (column g). Actual quantity on hand. Subcolumns A through F are to be filled in by the receiving unit/personnel in accordance with DA Pam 710-2-1, chapter 6.

p. PAGE\_\_\_\_OF\_\_\_PAGES. Contains page number and total number of pages for the COEI, BII, 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.

2

## 4. AUTHORIZATION DOCUMENTS.

- a. Components of End Item (COEI) are authorized by the applicable Repair Parts and Special Tools List (RPSTL).
- b. Basic Issue Items (BII) are authorized by the applicable operator's manual.

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

5. SPECIAL INFORMATION. SPECIAL INFORMATION. Items coded (\*) indicate information is not available.

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TM 10-4930-232-10-HR

### SECTION II. HAND RECEIPT

For use of	RECEIPT/ANNEX NUMBER this form, see DA PAM 710-2 ponent agency is ODCSLOG		то:		HAND RECEIPT NUMBER
FOR ANNEX CR ONLY	END ITEM STOCK NUMBER 4930-00-142-5313	END ITEM DESCRIPTION FUEL SYSTEM, SUPPLY POINT, PORTABLE 60,000 GALLON	PUBLICATION NUMBER TM 10-9310-232-10-HR	PUBLICATION DATE 15 May 1995	QUANTITY

						g.		QUA	NTITY		
STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION	* c	SEC d.	UI e.	QTY AUTH f	А	В	с	D	Е	F
	COMPONENTS OF END ITEM (COEI)										
4930-00-360-0611	NOZZLE, FUEL AND OIL, (81718), DC-811-GA-1	Х		EA	6						
4730-01-096-1041	TEE, FLANGE (WYE AND TEE), (97403) 13222E9889	X		EA	2						
4730-01-096-1045	WYE, QUICK (97403), 13222E9893	X		EA	2						
4730-00-075-2407	WYE, QUICK (4'F X M X M), (97403), 13229E6037 (97403) 5-14-676ASSYH	X		EA	2						
4730-00-075-2408	WYE, QUICK (4"M X F X F) (97403), 13229E6038 (97403) 5-14-676J	X		EA	2						
4730-01-096-1039	COUPLING HALF QUICK (TEE) (97403), 13222E9884	Х		EA	6						
4730-01-096-1040	COUPLING HALF, QUICK (TEE), (97403), 13222E9885	X		EA	6						
4730-00-075-2405	TEE, FLANGE (4"M X F X M) (97403), 13229E6039 (97403), 5-14-676C	X		EA	2						
4730-01-096-1038	REDUCER, QUICK (REDUCER TEE) (97403), 13222E9883	X		EA	6						
4720-00-555-8325	HOSE ASSY, 1.5" X 25' (81349) M370B05B2C3000	X		EA	6						
4720-00-083-0044	HOSE ASSY, 4" X 12' (81349) M370B09B2A1440	Х		EA	36						

★ WHEN USED AS A:

HAND RECEIPT, enter Hand Receipt Annex Number

HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes

HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC). 2 EDITION OF JAN 58 IS OBSOLETE.

DA FORM 2062

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## TM 10-4930-232-10-HR

ITEM DESCRIPTION <i>b.</i> HOSE ASSY, 3" X 12', (81349) M370B08B2A1440	* c	SEC		AUTH		I				
			е.	f	Α	В	С	D	Е	
(01343) M370D00D2A1440	X		EA	16						
HOSE ASSY, 1" X 25', (81349), M11588-03-05-32-300 (73842), 543-436	X		EA	6						
HOSE ASSY, 2" X 25', (81349), M 11588-03-08-32-300 (81349) M11588-03-08-25FTLG	X		EA	8						
HOSE ASSY, 3' X 12', (81349), M11588-03-10-32-144 (73842), 553104312	X		EA	8						
HOSE ASSY, 3" X 25', (81349), M11588-03-10-32-300 (01413) 112704-15	X		EA	7						
HOSE ASSY, 3" X 50', (81349) MI 11588-03-10-32-600 (81349), M11588-03-10-32	X		EA	8						
HOSE ASSY 4" X 50', (81349), M11588-03-11-32-600 (73842) 553-104-4-50	X		EA	8						
HOSE ASSY, 4' X 25', (81349) M11588-03-11-32-300 (73842) 553104425	X		EA	10						
VALVE ASSY, GATE (97403), 13222E9881	Х		EA	6						ľ
VALVE ASSY, GATE, (81718), 664F4	Х		EA	14						ľ
VALVE ASSY, QUICK (92021), SPA-37-S2/BO	Х		EA	2						ſ
VALVE ASSY, QUICK, (97403), 13222E9886	Х		EA	4						Ī
VALVE ASSY, BALL (1.5"), (97403), 13222E9888	Х		EA	12						ſ
COUPLING ASSY, QUICK (F X F 1.5"), (97403), 13222E9890	X		EA	6						
	(81349), M 11588-03-08-32-300 (81349) M11588-03-08-25FTLG HOSE ASSY, 3' X 12', (81349), M11588-03-10-32-144 (73842), 553104312 HOSE ASSY, 3'' X 25', (81349), M11588-03-10-32-300 (01413) 112704-15 HOSE ASSY, 3'' X 50', (81349) M11588-03-10-32-600 (81349), M11588-03-10-32 HOSE ASSY 4'' X 50', (81349), M11588-03-11-32-600 (73842) 553-104-4-50 HOSE ASSY, 4'' X 25', (81349) M11588-03-11-32-300 (73842) 553104425 VALVE ASSY, GATE (97403), 13222E9881 VALVE ASSY, GATE, (81718), 664F4 VALVE ASSY, QUICK (92021), SPA-37-S2/BO VALVE ASSY, QUICK, (97403), 13222E9888 COUPLING ASSY, QUICK (F X F 1.5''), (97403), 13222E9890	(81349), M 11588-03-08-32-300       (81349) M11588-03-08-25FTLG         HOSE ASSY, 3' X 12',       X         (81349), M11588-03-10-32-144       (73842), 553104312         HOSE ASSY, 3'' X 25',       X         (81349), M11588-03-10-32-300       (01413) 112704-15         HOSE ASSY, 3'' X 50',       X         (81349), M11588-03-10-32-600       X         (81349), M11588-03-10-32-600    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3' X 25',       X       EA       7         (81349), M11588-03-10-32-300       X       EA       7         (01413) 112704-15       X       EA       8         HOSE ASSY, 3' X 50',       X       EA       8         (81349), M11588-03-10-32-600       X       EA       8         (81349), M11588-03-10-32-600       X       EA       8         (81349), M11588-03-10-32-600       X       EA       8         (73842) 553-104-4-50       X       EA       8         HOSE ASSY, 4' X 25',       X       EA       10         (81349), M11588-03-11-32-600       X       EA       10         (73842) 553-104-4-50       X       EA       10         HOSE ASSY, 4' X 25',       X       EA       6         (97403), 13222E9881       X       EA       6         VALVE ASSY, GATE,       X       EA       14         (81718), 66474       X	(81349), M11588-03-08-25FTLG       X       EA       8         (81349), M11588-03-08-25FTLG       X       EA       8         (81349), M11588-03-10-32-144       X       EA       8         (73842), 553104312       X       EA       7         (81349), M11588-03-10-32-300       X       EA       7         (01413) 112704-15       X       EA       8         HOSE ASSY, 3" X 25',       X       EA       8         (81349), M11588-03-10-32-600       X       EA       8         (81349), M11588-03-10-32-600       X       EA       8         (81349), M11588-03-11-32-600       X       EA       8         (73842) 553-104-4-50       X       EA       8         HOSE ASSY, 4" X 25',       X       EA       8         (81349), M11588-03-11-32-600       X       EA       8         (73842) 553-104-4-50       X       EA       10         (73842) 553-104-4-50       X       EA       10         (73842) 553-104-450       X       EA       6         (74342) 3222E9881       X       EA       14         VALVE ASSY, GATE,       X       EA       14         (97403), 13222E9886 <t< td=""><td>(81349) M11588-03-08-32-300       X       EA       8         (81349) M11588-03-08-25FTLG       X       EA       8         (81349) 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second</td><td>(81349) M11588-03-08-32-300       X       EA       8         (81349) M11588-03-08-25FTLG       X       EA       8         (81349) M11588-03-10-32-144       (73842), 553104312       X       EA       7         (81349) M11588-03-10-32-144       (73842), 553104312       X       EA       7         (81349) M11588-03-10-32-300       X       EA       7       1         (91413) 112704-15       X       EA       8       1         (81349) M11588-03-10-32-000       X       EA       8       1         (81349) M11588-03-10-32       X       EA       8       1         HOSE ASSY, 4' X 50',       X       EA       8       1         (81349) M11588-03-11-32-600       X       EA       8       1         (73842) 553104425       X       EA       10       1         HOSE ASSY, 4' X 25',       X       EA       6       1         (97403), 13222E9881       X       EA       10       1       1         VALVE ASSY, QUICK       X       EA       14       1       1         (97403), 13222E9886       X       EA       12       1       1         VALVE ASSY, QUICK, (F X F 1.5''), (97403), 13222E9886</td></t<>	(81349) M11588-03-08-32-300       X       EA       8         (81349) M11588-03-08-25FTLG       X       EA       8         (81349) M11588-03-08-25FTLG       X       EA       8         (73842), 553104312       X       EA       8         HOSE ASSY, 3' X 25',       X       EA       7         (81349) M11588-03-10-32-300       X       EA       7         (01413) 112704-15       X       EA       8         HOSE ASSY, 3' X 50',       X       EA       8         (81349) M11588-03-10-32-600       X       EA       8         (81349), M11588-03-10-32-600       X       EA       8         HOSE ASSY, 4' X 25',       X       EA       8         (81349), M11588-03-11-32-600       X       EA       8         (73842) 553-104-4-50       -       -       -         HOSE ASSY, 4' X 25',       X       EA       10       -         (81349), M11588-03-11-32-600       -       -       -       -         (73842) 553-104-4-50       -       -       -       -       -         VALVE ASSY, GATE       X       EA       6       -       -       -         (97403), 13222E9881	(81349) M 11588-03-08-32-300       Image: Constraint of the second	(81349) M11588-03-08-32-300       X       EA       8         (81349) M11588-03-08-25FTLG       X       EA       8         (81349) M11588-03-10-32-144       (73842), 553104312       X       EA       7         (81349) M11588-03-10-32-144       (73842), 553104312       X       EA       7         (81349) M11588-03-10-32-300       X       EA       7       1         (91413) 112704-15       X       EA       8       1         (81349) M11588-03-10-32-000       X       EA       8       1         (81349) M11588-03-10-32       X       EA       8       1         HOSE ASSY, 4' X 50',       X       EA       8       1         (81349) M11588-03-11-32-600       X       EA       8       1         (73842) 553104425       X       EA       10       1         HOSE ASSY, 4' X 25',       X       EA       6       1         (97403), 13222E9881       X       EA       10       1       1         VALVE ASSY, QUICK       X       EA       14       1       1         (97403), 13222E9886       X       EA       12       1       1         VALVE ASSY, QUICK, (F X F 1.5''), (97403), 13222E9886

For use of	this form	/ANNEX NUMBER n, see DA PAM 710-2 gency is ODCSLOG.			то:						HAND F	RECEIP	TNUM	BER
FOR ANNEX CR ONLY	END IT	EM STOCK NUMBER 00-142-5313	END ITEM DESCRIPTION FUEL SYSTEM, SUPPLY POINT, PORTABL 60,000 GALLON			TION NUMBER -4930-232-10-HR				DATE 995		QUANT	ΊTΥ	
								QTY g.			QUAN	ΤΙΤΥ		
STOCK NU a.	MBER		ITEM DESCRIPTION b.		* c	SEC d.	UI e.	AUTH f	Α	в	C D E			
		COUPLING ASSY, Q (97403), 13222E9891			X		EA	2						
4730-01-09	6-1044	COUPLING ASSY, Q (97403), 13222E9892			X		EA	2						T
4730-01-07	8-8130	NIPPLE, QUICK, M X (96906), MS39352-15			X		EA	2						T
4730-00-93	5-1613	NIPPLE, QUICK, M X (96906), MS39352-19			X		EA	2						
4730-00-95	1-3294	COUPLING, QUICK (REDUCER), 3" F X 2"M,         X         EA         3           (96906), MS49000-3         X												
4730-00-95	1-3293	REDUCER, QUICK, 4 (96906), MS49000-1	4"F X 3" M,		X		EA	2						
4730-01-07	9-8234	REDUCER, QUICK, 6 (96906), MS49000-21	1		X		EA	2						
4940-00-36		(96906), MS27026-5	UICK, 1" F TO EXT PIPE THRD		X		EA	2						
4730-00-08	8-9286	COUPLING HALF, QU (96906), MS27024-17	UICK, 4" F TO INT PIPE THRD, 7		X		EA	2						
4730-00-84	0-0796	COUPLING HALF, QU (96906), MS27020-17	UICK, 4" F TO INT PIPE THRD, 7		X		EA	2						
4730-00-20	2-7212	COUPLING PIPE, (81349), M10388-B07	7AIC6A		X		EA	2						
4730-00-07	5-2410	COUPLING HALF, QI (96906), MS70088	X		EA	2								
4730-00-92		CAP, QUICK 1" (96906), MS27028-5	x		EA	4								
4730-00-86	9-5246	CAP, QUICK, 1.5", (96906), MS27028-9	X		EA	6								

HAND RECEIPT ANNEX/COMPONENTS RECEIPT. enter Accounting Requirements Code (ARC)

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					QTY	g.		QUA	NTITY		
STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION b.	* c	SEC d.	UI e.	AUTH f	А	в	с	D	Е	F
4730-00-929-0787	CAP, QUICK, 3", (96906), MS27028-15	X		EA	6						
4730-00-640-6156	CAP, QUICK, 4", (96906), MS27028-17	X		EA	18						
4940-00-360-0715	PLUG, QUICK, 1", (96906), MS27029-5	X		EA	4						
5340-00-823-5316	PLUG, QUICK, 1.5", (96906), MS27029-9	X		EA	6						
4730-00-915-5127	PLUG, QUICK, 2", (96906), MS27029-11	X		EA	4						
4730-00-929-0790	PLUG, QUICK, 3", (96906), MS27029-15	X		EA	6						
4730-00-640-6188	PLUG, QUICK, 4", (96906), MS27029-17	X		EA	16						
5330-00-360-0595	GASKET, 1.5", (96906), MS27030-5	X		EA	4						
5330-00-088-9166	GASKET, 3", (96906), MS27030-8	X		EA	10						
5330-00-899-4509	GASKET, 4", (96906), MS27030-9	X		EA	10						
5330-01-207-8302	GASKET, (05443), 10231-C	X		EA	4						
5340-00-244-7327	SEAL, STRAPPING, 3/4" (100 CT) (70847), C256	X		BX	1						
5340-00-244-7325	SEAL, STRAPPING, 1/2", (100 CT), (70847), C254	X		BX	1						
8030-00-837-5885	SEALING COMPOUND, (81349), MIL-S-45180 (08024), FORMAGASKET	X		QT	1						
5340-00-245-9440	STRAPPING, 3/4' (100FT), (70847), C206	X		RL	1						
5330-0-647-2072	GASKET, CORK, 8 HOLE, 6.75", BOLT CIRCLE, (97403), 13216E8238	X		EA	10						

HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC)

PAGE 4 OF 5 PAGES

## TM 10-4930-232-10-HR

For use of	this forn	/ANNEX NUMBER n, see DA PAM 710-2 gency is ODCSLOG				TO:							HAND F	RECEIP	T NUMI	BER
FOR ANNEX CR ONLY		EM STOCK NUMBER 00-142-5313	END ITEM DESCRIPTION FUEL SYSTEM, SUPPLY POINT, PO 60,000 GALLON		-	ICATION 10-493	-		R	PUBLICATION DATE 15 May 1995						
I										QTY	g.			QUAN	ITITY	
STOCK NU a.	MBER		ITEM DESCRIPTION b.				* c	SEC d.	UI e.	AUTH f	А	в	C D E			
5340-00-24	15-9438	STRAPPING, 1/2', (70847), C204	(100FT),				Х		RL	1						
5120-00-240-5328		WRENCH, ADJ 0-15/16", (58536), A-A-2344 (81349), GGG-W-631							EA	8						
5120-00-35	57-8431	WRENCH, COUPLING TANK CAR         D         EA         2           (24869), G-10         (09310), 610         Image: Comparison of the second seco														
5120-00-35	59-6587	CLAMPING TOOL, (70847),S38	3/8' TO 5/8",				D		EA	2						
5120-00-27	78-9925	CLAMPING TOOL, (81348), GGG-C-4	13				D		EA	2						
		TN 40 4000 000 40	BASIC ISUES ITEMS (E	3II)					<b>–</b> ^							_
5975-01-05	50-5707	TM 10-4930-232-12 ROD, GROUNDING (97403) 1329D0462	3				X X		EA EA	1						F
			ADDITIONAL AUTHORIZED U													
4210-01-08	89-0875	(98752) 1211 20LB					Х		ΕA	3						
4320-01-06		PUMP ASSEMBLY, WHEEL MOUNTED, 350 GPM CAPACITY, 275 FT HEA (81349) MIGP-52144, TYPE II							EA	2						
4330-00-17		FILTER/SEPARATOR, LIQUID FUEL, FRAME MTD, 350 GPM CAPACITY X (97403) 13217E9320							EA	2						
5430-00-64	1-8552	TANK ASSY, FABRIC, COLLAPSIBLE, PETROLEUM, 10.000 GALLON         X         EA         6           (81349), MIL-T-52983, M52983-2							1							
HAND REC	EIPT AN	NEX/COMPONENTS	RECEIPT. enter Accounting Re	equirements Co	de (A	RC)							PA	GE 5	OF 5	

By Order of the Secretary of the Army:

Official Joel B. Hula

JOEL B. HUDSON Acting Administrative Assistant to the Secretary of the Army

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

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### The Metric System and Equivalents

#### Linear Measure

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

#### Weights

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

#### Liquid Measure

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

#### Square Measure

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

#### Cubic Measure

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

### **Approximate Conversion Factors**

To change	То	Multiply by	To change	То	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

## **Temperature (Exact)**

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

PIN: 073840