

**HAND RECEIPT**

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

**FOR**

**TANK AND PUMP UNIT, LIQUID DISPENSING; FOR  
TRUCK MOUNTING MIL DESIGN TANK AND PUMP UNITS**

**ELECTRIC MOTOR DRIVEN  
MODEL (97403) 13217E7130  
NSN 4930-01-130-7281**

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

\* This manual supersedes TM 5-4930-230-10-HR, dated 31 December 1991

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY  
15 JULY 1993**



Hand Receipt

No. 5-4930-230-10-HR

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON D.C., 15 July 1993

**HAND RECEIPT**

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

FOR

TANK AND PUMP UNIT,  
LIQUID DISPENSING;  
FOR TRUCK MOUNTING  
MIL DESIGN TANK AND PUMP UNITS

ELECTRIC MOTOR DRIVEN  
MODEL (97403) 13217E7130  
NSN 4930-01-130-7281

**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**

	PAGE
Section I. INTRODUCTION .....	1
Section II. HAND RECEIPT .....	5

\* This manual supersedes TM 5-4930-230-10-HR, dated 31 December 1991.



## 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 Tank and Pump Unit, Liquid Dispensing; for Truck Mounting.

### 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 5-4930-230-13. The listings consist of exactly the same items and are in the same sequence as those listings in TM 5-4930-230-13.

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 ITEM DESCRIPTION.** Contains the end item short title.
- f. **PUBLICATION NUMBER.** 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.

**TM 5-4930-230-10-HR**

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."

l. SEC (column d). The Controlled Inventory Item Code (formerly SEC code) is entered here. This is a one-position 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:

<b>SEC CODE</b>	<b>CONTROLLED INVENTORY ITEM CODE</b>
U	UNCLASSIFIED PILFERABLE ITEMS
M	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-I (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, Bill, 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. AUTHORIZATION DOCUMENTS.**

- a. Components of End Item (COEI) are authorized by the applicable Repair Pans 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.





**Section II. HAND RECEIPT**

<b>HAND RECEIPT / ANNEX NUMBER</b> <i>For use of this form see DA PAM 710-2-1. The proponent agency is ODCSLOG.</i>		FROM:	TO:	HAND RECEIPT NUMBER							
FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER <b>4930-01-130-7281</b>	END ITEM DESCRIPTION <b>Tank and Pump Unit, Liquid Dispensing</b>	PUBLICATION NUMBER <b>TM 5-4930-230-13</b>	PUBLICATION DATE		QUANTITY 1					
STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC d.	UI e.	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
4930-01-130-7281	Tank and Pump Unit, Liquid Dispensing	X		EA	1						
<b>COMPONENTS OF END ITEM (COEI)</b>											
4930-01-159-4437	Adapter Assembly, Water Detector, P/N 13220E9406-3 (97403)	X		EA	1						
5935-00-322-8959	Adapter, Connector, P/N 11677570 (19207) (EMD)	X		EA	1						
4930-01-169-5287	Adapter, Probe, Water Detector Kit 13220E9914-3 (97403)	X		EA	1						
6150-01-022-6004	Cable Assembly, Power, PIN 11682336-1 (19207) (EMD)	X		EA	1						
6150-01-191-9732	Cable Assembly, Remote Switch, P/N 13217E2964 (97403) (EMD)	X		EA	1						
4930-01-188-3240	Drum, Unloader, Stub Assembly, P/N 13217E2987 (97403)	X		EA	1						
5210-01-083-2926	Gage Stick, Petroleum, P/N 13217E7144 (97403)	X		EA	1						
	Pump Unit, P/N 13217E7105 (97403) (EMD)	X		EA	1						
5430-00-530-5021	Strap Assembly, P/N 13220E5288-2 (97403)	X		EA	2						
5430-00-585-2529	Tank, P/N 13217E7080 (97403)	X		EA	2						
3990-01-015-8457	Tie Down Assembly, Rigid Side Cargo Truc, P/N 13217E7150 (97403)	X		EA	10						
	Tie Down Assembly, Cargo Truck, P/N 13217E7157 (97403)										
<p>* 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)</p>											

TM 5-4930-230-10-HR

5

9

STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
	BASIC ISSUE ITEMS (BII)										
2540-00-670-2459	Bag, Pamphlet	X		EA	1						
4210-00-775-0127	Fire Extinguisher Type 2, Class 2 w/Bracket	X		EA	1						
5975-00-878-3791	Rod, Ground, P/N 13219E0462 (97403)	X		EA	1						
N/A	Technical Manual, TM 5-4930-230-13	X		EA	1						
	ADDITIONAL AUTHORIZATION LIST (AAL)										
	Nozzle Assembly No-Lead (EMD)	X		EA	1						
	MIL-N-5211DE (81349) Ty II, Sz 2, CLB										
	Reducer, External Pipe Thread X Quick Disconnect	X		EA	1						
	(1" pipe to 1 1/2" quick disconnect) (EMD) MS 49002-17										
5120-01-013-1676	Slide Hammer (EMD)	X		EA	1						
5340-01-004-5180	Padlock, Key Operated (EMD)	X		EA	2						
3990-01-169-5286	Tie Down Assembly Vehicle, Hinge Side	X		EA	10						
	(used with 5 ton dropside vehicle)										

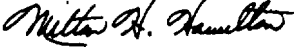
TM 5-4930-230-10-HR





By Order of the Secretary of the Army:

Official:

  
MILTON H. HAMILTON  
Administrative Assistant to the  
Secretary of the Army  
04648

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

DISTRIBUTION:

To be distribution in accordance with DA Form 12-25-E, block no. 1726.  
requirements for TM 5-4930-230-10-HR.



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

PFC JOHN DOE  
COA, 3d ENGINEER BN  
FT. LEONARDWOOD, MO 63108

DATE SENT

PUBLICATION NUMBER  
TM 5-4930-230-10-HR

PUBLICATION DATE  
15 July 1993

PUBLICATION TITLE  
TANK AND PUMP UNIT

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	
125	line 20		

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

In line 6 of paragraph 2-1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2 910-05-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE, PFC (268) 317-7111

SIGN HERE

JOHN DOE

DA FORM 2028-2  
1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.  
DRST5-M Overprint 1, 1 Nov 80

PS--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

TEAR ALONG PERFORATED LINE

1 Nov 80

FILL IN YOUR  
UNITS ADDRESS



FOLD BACK

DEPARTMENT OF THE ARMY

---

---


OFFICAL BUSINESS

COMMANDER  
U.S. ARMY AVIATION AND TROOP COMMAND  
ATTN: AMSAT-I-MP  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



## SOMETHING WRONG WITH THIS PUBLICATION?

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

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

---

DATE SENT

PUBLICATION NUMBER  
TM 5-4930-230-10-HR

PUBLICATION DATE  
15 July 1993

PUBLICATION TITLE  
TANK AND PUMP UNIT

BE EXACT PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA. GRAPH	FIGURE NO	TABLE NO	

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

FILL IN YOUR  
UNITS ADDRESS



FOLD BACK

DEPARTMENT OF THE ARMY

---

---

OFFICIAL BUSINESS

COMMANDER  
U.S. ARMY AVIATION AND TROOP COMMAND  
ATTN: AMSAT-I-MP  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

**SOMETHING WRONG WITH THIS PUBLICATION?**

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

TM 5-4930-230-10-HR

PUBLICATION DATE

15 July 1993

PUBLICATION TITLE

TANK AND PUMP UNIT

BE EXACT PIN-POINT WHERE IT IS

PAGE NO

PARA-GRAPH

FIGURE NO

TABLE NO

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

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

1 Nov 80

FILL IN YOUR  
UNITS ADDRESS



FOLD BACK

DEPARTMENT OF THE ARMY

---

---

OFFICIAL BUSINESS

COMMANDER  
U.S. ARMY AVIATION AND TROOP COMMAND  
ATTN: AMSAT-I-MTS  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



**SOMETHING WRONG WITH THIS PUBLICATION?**

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

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

TM 5-4930-230-10-HR

PUBLICATION DATE

15 July 1993

PUBLICATION TITLE

TANK AND PUMP UNIT

BE EXACT PIN-POINT WHERE IT IS

PAGE NO

PARA-GRAPH

FIGURE NO

TABLE NO

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

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

1 Nov 80

FILL IN YOUR  
UNITS ADDRESS



FOLD BACK

DEPARTMENT OF THE ARMY

---

---

OFFICIAL BUSINESS

COMMANDER  
U.S. ARMY AVIATION AND TROOP COMMAND  
ATTN: AMSAT-I-MP  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

# 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 decigrams = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 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 milliliters = .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	To	Multiply by	To change	To	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 temperature	5/9 (after subtracting 32)	Celsius temperature	°C
----	------------------------	----------------------------	---------------------	----

