

**TM 5-6675-325-14-HR**

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**HAND RECEIPT**

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

**FOR**

**TOPOGRAPHIC SUPPORT SYSTEM**

**SYNTHESIS SECTION**

**MODEL ADC-TSS-14**

**NSN:6675-01-105-5763**

This Manual Supersedes TM 5-6675-325-14-HR, 15 September 1983

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**3 SEPTEMBER 1985**



Hand Receipt  
TM 5-6675-325-14-HR

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 3 September 1985

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

FOR

SYNTHESIS SECTION

TOPOGRAPHIC SUPPORT SYSTEM

NSN 6675-01-105-5763

REPORTING OF 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), or DA Form 2028-2 located in the back of this manual, directly to: Commander, U.S. Army Troop Support Command, Attn: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

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HAND RECEIPT FOR CONTENTS OF  
COMPONENTS OF END ITEM (COEI), BASIC ISSUE ITEMS (BII), AND  
ADDITIONAL AUTHORIZATION LIST ITEMS FOR  
SYNTHESIS SECTION  
TOPOGRAPHIC SUPPORT SYSTEM  
NSN 6675-01-105-5763

Section I. INTRODUCTION

1. SCOPE. This publication provides 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 Synthesis Section, Topographic Support System.

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 5-6675-325-14. The listings consist of exactly the same items and are in the same sequence as those listings in TM 5-6675-325-14.

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

d. Additional copies of this publication may be requisitioned from: U.S. Army Adjutant General Publications Center, 2800 Eastern Boulevard, Baltimore, MD 21220. See DA Pamphlet 310-10-2 for proper requisitioning procedures.

3. EXPLANATION OF BLOCKS AND COLUMNS (DA FORM 2062). Refer to Chapter 2, AR 710-2. Additional information required to complete DA Form 2062 is listed below:

a. Hand receipts shall identify the accounting requirement status of all line entries via the description column for each item: i.e., the first entry in the description column shall be the line item's Expendability (EXP)/Accounting Requirements Code (ARC), in parentheses, in front of the line item name. One of the following codes will apply:

(N) For Nonexpendable: 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: Nonconsumable components of sets, kits, outfits, 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) 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".

b. Authorization documents are as follows:

(1) Components of End Item (COEI) are authorized by the applicable Repair Parts and Special Tools List (RPSTL).

(2) Basic Issue Items (BII) are authorized by the applicable operator's manual.

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

Section II. Hand Receipt

HAND RECEIPT/ANNEX NUMBER <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	END ITEM DESCRIPTION	PUBLICATION NUMBER	PUBLICATION DATE			QUANTITY				
	6675-01-105-5763	Synthesis Section	TM 5-6675-325-14	20 June 1985							
STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	QUANTITY <i>g.</i>					
						A	B	C	D	E	F
6675-01-105-5763	(N) TOPOGRAPHIC SUPPORT SYSTEM, SYNTHESIS SECTION  MODEL ADC-TSS-14			EA	1						
	COMPONENTS OF END ITEM (COEI)										
	(N) BASE, FILING CABINET (88915) S4634			EA	1						
2510-01-033-7967	(X) BODY, VAN TRAILER (97403) TL/MIL-B-13207			EA	1						
7195-00-105-7941	(X) BULLETIN BOARD, CORK (8D190) T5-2303			EA	1						
7125-00-764-5744	(N) CABINET, STORAGE, SUPPLY (78252) AA-C-1770,  TYPE I, CLASS 1, SIZE 2			EA	2						
7125-00-286-5259	(N) CABINET, STORAGE, WALL (78252) MIL-C-40060/1,  TYPE I			EA	1						
	(N) CABINET, STORAGE, TECH MANUAL (97403) 13225E4648			EA	1						
6150-00-134-0847	(X) CABLE ASSEMBLY, POWER ELECTRICAL (90129)  RC1736-5, EXCEPT 50.5 FT LG			EA	3						
7420-01-139-7441	(X) CALCULATING MACHINE (51174) HP-32E			EA	1						
7105-00-269-8463	(X) CHAIR, FOLDING (80063) SCD539471			EA	1						

\* 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).

TM 5-66-325-14-HR

STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC <i>d.</i>	UI <i>e.</i>	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	COEI CONTINUED										
7110-00-273-8791	(N) CHAIR, ROTARY (8D190) UC-S-17			EA	2						
7110-00-281-4472	(X) CHAIR, ROTARY (8D190) UC-D42-L			EA	3						
4940-01-118-1890	(X) CLEANER, ULTRASONIC (79819) 3069 USC 3			EA	1						
7110-00-143-0844	(N) DESK, TYPEWRITER (37296) AA-D-191, TYPE II, CLASS 2			EA	1						
7110-00-920-9320	(N) FILING CABINET, SECURITY (54427) AA-F-358, CLASS 6, SIZE 3, 28 IN. D, 52 IN. H, 20.813 IN. W			EA	1						
7110-00-286-3796	(N) FILING CABINET, 4 DRAWER (37296) AA-F-359, TYPE IV, SIZE 1, 28 IN. D, 5 IN. H, 18 IN. W			EA	1						
	(N) FILING ASSEMBLY, MAP/PLAN (97403) 13225E3138			EA	2						
7110-00-068-7736	(N) FILING CABINET, MAP AND PLAN SECURITY, (41729) 7110-00-068-7736HC, W/CTH-405905 OR 489-103 AND PHR 405904 OR 489-103			EA	1						
5440-01-152-7751	(N) LADDER, EXTENSION-FOLDING (39428) 8028T16			EA	1						
2540-01-133-9726	(X) LADDER, VEHICLE BOARDING (97403) 13225E3074			EA	2						
	(N) LIFTING AND TIEDOWN DEVICE, TRANSPORTABLE SHELTER, LEFT HAND (52555) 1390-4			EA	2						
	(N) LIFTING AND TIEDOWN DEVICE, TRANSPORTABLE SHELTER, RIGHT HAND (52555) 1390-3			EA	2						
	(X) LIGHT, EMERGENCY (97403) 13225E3396			EA	1						



STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH	g. QUANTITY					
						A	B	C	D	E	F
	COEI CONTINUED										
6675-01-155-6592	(N) PLANIMETER, LARGE GRAPHIC QUANTITY PROCESSOR, (36970) L2501, W/HP-97				EA 1						
6675-00-891-6219	(X) PROJECTOR, VERTICAL REFLECTING, PHOTOGRAMMETRIC (33363) 72-0402, MODEL RP-T-4B				EA 1						
5975-00-878-3791	(X) ROD, GROUND (82370) A104				EA 1						
2330-01-076-4797	(N) SEMITRAILER, FLATBED (97403) TL/MIL-B-13207, PAR. 3.11, FIG. 12, TABLES III AND IV				EA 1						
5120-01-013-1676	(D) SLIDE HAMMER, GROUND ROD EMPLACEMENT (45225) P74-144				EA 1						
7110-00-143-0820	(N) TABLE, OFFICE (37296) AA-T-91, CLASS B, SIZE 3				EA 1						
6675-01-203-1049	(N) TABLE, SCRIBING, TRACING, DRAFTING (33363) 99-9933				EA 3						
	(N) TOP, FILING CABINET (88915) T3445				EA 1						
7520-00-224-7621	(X) TRIMMER, PAPER, DROP KNIFE (81348) GG-T-678-TYPE-1, CLASS 5				EA 1						
7430-00-663-9102	(N) TYPEWRITER (61632) S27				EA 1						
6730-01-174-8122	(N) VIEWER-PRINTER, PROJECTION, PHOTOGRAPHIC (94862) 800 READER-PRINTER, 22X LENS KIT, INDEX CARD 24 X 6				EA 1						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	* <i>c.</i>	SEC <i>d.</i>	UI <i>e.</i>	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
4120-00-974-7206	(N) AIR CONDITIONER (81349) MIL-A-52767			EA	2						

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STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH	g. QUANTITY					
						A	B	C	D	E	F
	BASIC ISSUE ITEMS (BII)										
78-8015-5521-6	(N) ALINEMENT APERTURE (94862)			EA	1						
	(X) BEAM, ATTACHMENT, DRAFTING COMPASS (79819)			EA	2						
	3175BN										
6675-01-114-7226	(X) BAR, EXTENSION, BEAM COMPASS (33363) 55-1818			EA	2						
7920-00-291-5812	(X) BRUSH, DUSTING, DRAFTSMAN'S (79819) Q6-38NB-010			EA	4						
7920-00-205-0565	(X) BRUSH, DUSTING, LENS AND PHOTOGRAPHIC NEGATIVE, (17866) R698			EA	2						
7920-00-291-5815	(X) BRUSH, WIRE, SCRATCH (39428) 7187T2			EA	1						
6675-00-459-8935	(X) COMPASS, DRAFTING BEAM (79819) 3175N			EA	2						
6675-00-904-1947	(X) COMPASS, DRAFTING BEAM (33363) 55-1806			EA	2						
6675-01-071-8912	(X) COMPASS, DRAFTING LEAD ATTACHMENT (79819)			EA	2						
	3175LA										
	(X) COVER, WORKING SURFACE, BOARD DRAFTING (33363)			EA	5						
	99-9970										
6675-00-250-2508	(X) CURVE, DRAFTING, IRREGULAR, FRENCH TYPE (79819) 8255-A			EA	4						
6675-00-250-2509	(X) CURVE, DRAFTING, IRREGULAR, SHIP TYPE (17866)			EA	4						
	2217-107										
6675-00-641-3512	(X) DIVIDERS, DRAFTING, PLAIN (33363) 55-1764			EA	4						
6675-00-240-2049	(X) DIVIDERS, DRAFTING, PROPORTIONAL (33363) 55-1860			EA	2						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC <i>d.</i>	UI <i>e.</i>	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	BII CONTINUED										
6675-01-599-8880	(X) DIVIDERS, EQUAL SPACING (39428) 1995D11, 6 IN.			EA	1						
6675-01-599-8879	(X) DIVIDERS, EQUAL SPACING (39428) 1995D12, 12 IN.			EA	1						
5210-00-555-8837	(N) EXTINGUISHER, FIRE, MONOBROMOTRIGLUOROMETHANE, (33525) T2			EA	2						
6645-00-922-1200	(D) FIRST AID KET, GENERAL PURPOSE (89875) SC C-6545-IL VOL 2			EA	1						
5120-00-935-4641	(D) KEY SET, SOCKET HEAD SCREW (81348) GGG-K-275 CL1 TY1			SE	1						
7510-00-927-8685	(X) KIT, PEN CLEANING (33363) 61-3115			KT	3						
5110-00-595-8400	(X) KNIFE, CRAFTSMAN'S (99941) 3001			EA	4						
7520-01-008-7640	(X) LEAD REPOINTER, PENCIL (79819) 992WB			EA	4						
6675-00-551-0785	(N) LETTERING SET (33363) 3245-14			EA	1						
6675-00-190-5854	(X) LINE GUIDE, LETTERING, NONADJUSTABLE (17866) 2030B6			EA	6						
6650-00-255-8268	(X) MAGNIFIER, LAMP TYPE (15607) KFM1BX5			EA	3						
6650-00-255-8268	(X) MAGNIFIER, LINEN TESTER (79819) Q8-9518			EA	4						
6675-00-222-2542	(X) MEASURER, MAP (33363) 62-0300			EA	2						
5340-00-682-1505	(X) PADLOCK SET (77765) MS21313-52			SE	1						
6675-00-222-2535	(X) PROTRACTOR, SEMICIRCULAR (23366) P478			EA	4						
	(N) PUMP, INFLATING, MANUAL (53800) 6 A 49454			EA	1						

STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC d.	UI e.	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
	BII CONTINUED										
5210-00-173-1964	(X) RULE, STEEL, MACHINIST'S (81349) MIL-R-20387			EA	1						
	TYPE 1 CL 1										
6675-00-641-5727	(X) SCALE, DRAFTING (33363) 56-3280			EA	4						
6675-00-283-0035	(X) SCALE, PLOTTING (17866) GG-S-161/8, TYPE VIII,			EA	4						
	SHAPE 2, COMPOSITION A, GRADE 1, SIZE B,										
	SCALE GRADUATION 1, NUMBERING A, STYLE A										
6675-00-283-0027	(X) SCALE, PLOTTING (23366) 28/YD, 10 IN.			EA	4						
6675-00-283-0037	(X) SCALE, PLOTTING (23366) 28/MR, 12 IN.			EA	4						
5120-00-234-8913	(X) SCREWDRIVER, CROSS TIP, SIZE 2 (81348)			EA							
	GGG-S-121										
5120-00-234-8910	(X) SCREWDRIVER, FLAT TIP (78525) 1006			EA	1						
7510-00-224-7242	(X) SHIELD, ERASING (79819) 03-605			DZ	1						
6675-00-641-3561	(X) STEREOSCOPE, LENS, AERIAL PHOTOGRAPH			EA	6						
	INTERPRETATION (7D560) 51034, ABRAMS MODEL										
	SV-1										
	(X) STRAIGHTEDGE (33363) 56-4150			EA	2						
	(X) STRAP ASSEMBLY, BUCKLE-END, 6.0 IN. (82820)			EA	9						
	1844-104										
	(X) STRAP ASSEMBLY, BUCKLE-END, 8.0 IN. (92920)			EA	2						
	1844-101										

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH	g. QUANTITY									
						<i>c.</i>	<i>d.</i>	<i>e.</i>	<i>f.</i>	A	B	C	D	E	F
	BII CONTINUED														
	(X) STRAP ASSEMBLY, BUCKLE-END, 15.0 IN. (82820)			EA	1										
	1844-105														
	(X) STRAP ASSEMBLY, TIP-END, 8.0 IN. (82820)			EA	7										
	1845-107														
	(X) STRAP ASSEMBLY, TIP-END, 23.0 IN. (82820)			EA	1										
	1845-103														
	(X) STRAP ASSEMBLY, TIP-END, 40.0 IN. (82820)			EA	2										
	1845-101														
	(X) STRAP ASSEMBLY, WEBBING, 30.00 IN. (98313)			EA	1										
	13225E3695-8														
	(X) STRAP ASSEMBLY, WEBBING, 35.00 IN. (98313)			EA	6										
	13225E3695-2														
	(X) STRAP ASSEMBLY, WEBBING, 55.00 IN. (98313)			EA	5										
	13225E3695-6														
	(X) STRAP ASSEMBLY, WEBBING, 72.00 IN. (98313)			EA	2										
	13225E3695-1														
	(X) STRAP ASSEMBLY, WEBBING, 94.00 IN. (98313)			EA	2										
	13225E3695-10														
	(X) STRAP ASSEMBLY, WEBBING, 29.00 IN. (98313)			EA	2										
	13225E3695-13														

STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC d.	UI e.	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
	BII CONTINUED										
	(X) STRAP ASSEMBLY, WEBBING, 65.00 IN. (82820)			EA	1						
	2058-102										
6675-00-253-5501	(X) TEMPLATE, DRAFTING (79819) 831040			EA	4						
5140-00-331-5496	(D) TOOL BOX, PORTABLE, 1 FIXED HINGED TRAY (75206) CS 19			EA	6						
5140-00-315-2747	(D) TOOL BOX, PORTABLE, 1 REMOVABLE TRAY (75206) CS 16			EA	1						
	(X) TRACER, NEEDLE (36970) 1260 NK			EA	1						
6675-00-190-5863	(X) TRIANGLE, DRAFTING, 2 45 DEGS (33363) 57-0292 SIZE 10			EA	4						
6675-00-190-5867	(X) TRIANGLE, DRAFTING, 1 30 DEG (33363) 57-0220 SIZE 10			EA	4						
6675-00-183-6487	(X) T-SQUARE (81562) 8068E			EA	2						
5120-00-224-7271	(X) VISE, PIN (18037) PVDE			EA	2						
5120-00-264-3795	(X) WRENCH, ADJUSTABLE (80244) GGG-W-631 TY 1 CL 1 (X) BOARD, CALIBRATION (36970) 20188			EA	1						
TM5-6675-325-14	(X) OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT, SYNTHESIS SECTION			EA	1						
TM5-6675-325-24P	(X) REPAIR PARTS AND SPECIAL TOOLS LIST, SYNTHESIS SECTION			EA	1						

TM 5-6675-325-14-HR

STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC <i>d.</i>	UI <i>e.</i>	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
5120-00-254-4612	(D) BLOWER, WATCHMAKERS (64959) R8950			EA	1						
4940-00-965-0288	(D) GUN, GREASE (77335) 550			EA	1						
5110-00-240-5943	(D) KNIFE (81348) TL-29			EA	1						







By Order of the Secretary of the Army:

**JOHN A. WICKHAM, JR.**  
**General, United States Army**  
**Chief of Staff**

Official:

**DONALD J. DELANDRO**  
**Brigadier General, United States Army**  
**The Adjutant General**

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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)

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

DATE SENT

PUBLICATION NUMBER

TM 5-6675-325-14-HR

PUBLICATION DATE

3 Sept 1985

PUBLICATION TITLE Hand Receipt for TSS,

Synthesis Section

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 2 910-00-762-3001. 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 1 JUL 79 2028-2

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DRSTS-M Overprint 1, 1 Nov 80

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TEAR ALONG PERFORATED LINE

FILL IN YOUR  
UNIT'S ADDRESS

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\_\_\_\_\_

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DEPARTMENT OF THE ARMY  
DOD 314



TEAR ALONG PERFORATED LINE

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U S ARMY TROOP SUPPORT COMMAND  
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**SOMETHING WRONG WITH THIS PUBLICATION?**

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DATE SENT

PUBLICATION NUMBER

TM 5-6675-325-14-HR

PUBLICATION DATE

PUBLICATION TITLE Hand Receipt for TSS,  
Synthesis Section

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:

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE:

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COMMANDER  
U S ARMY TROOP SUPPORT COMMAND  
ATTN: AMSTR-MCTS  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

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3 Sept 1985

PUBLICATION TITLE Hand Receipt for TSS,  
Synthesis Section

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:

**DA FORM 2028-2**  
1 JUL 79

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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 milligram = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigram = .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	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

