

**HAND RECEIPT**

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

**FOR**

**POSITION AND AZIMUTH DETERMINING  
SYSTEM**

**AN/USQ-70**

**NSN 6675-01-071-5552**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY  
9 JUNE 1983**



Hand Receipt  
TM 5-6675-308-12-HR

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D. C., 9 June 1983

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

FOR

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**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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, U.S. Army Troop Support and Aviation Materiel Readiness Command, AITN: DRSTS-MPSD, 4300 Goodfellow Boulevard, Saint Louis, MO 63120. A reply will be furnished directly to you.

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HAND RECEIPT FOR CONTENTS OF  
 COMPONENTS OF END ITEM (COEI), BASIC ISSUE ITEMS (BII), AND  
 ADDITIONAL AUTHORIZATION LIST (AAL) ITEMS FOR  
 POSITION AND AZIMUTH DETERMINING SYSTEM  
 AN/USQ-70  
 NSN 6675-01-071-5552

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 Position and Azimuth Determining System, AN/USQ-70.

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 5-6675-308-12. The listings consist of exactly the same items and are in the same sequence as those listings in TM 5-6675-308-12.

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 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 procedure.

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 item 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 pronoun agency is ODCSI.OG.</i>		FROM:	TO:	HAND RECEIPT NUMBER							
FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER	END ITEM DESCRIPTION	PUBLICATION NUMBER	PUBLICATION DATE	QUANTITY						
STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	QUANTITY <i>g.</i>					
		<i>c.</i>	<i>d.</i>	<i>e.</i>	<i>f.</i>	A	B	C	D	E	F
6675-01-071-5552	(N) POSITION AND AZIMUTH DETERMINING SYSTEM, AN/USQ-70				1						
	COMPONENTS OF END ITEM (COEI)										
	(D) CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL 120 NCHES. W1 6481 880561-2				1						
	(D) BASE, MOUNTING, ELECTRICAL EQUIPMENT MT-4877/USQ-70 (06481) (880570-3)				1						
	(N) COMPUTER CP- 283 USQ-70 6481 880700 2)				1						
6230-00-264-8261	(D) FLASHLIGHT MX-99/U, TYPE 1, STYLE 2, 2 CELL				1						
	(D) T-HANDLE (06481) (875556-2)				4						
	(D) BRACKET, ALIGNMENT PIN (06481) (880516-1)				1						
	(N) INERTIAL MEASUREMENT UNIT MX-9832/USQ-70 6481 880900-2				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).

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ITEM DESCRIPTION	*	SEC	UI	QTY AUTH	g.	QUANTITY				
(D) CABLE ASSEMBLY. SPECIAL PURPOSE. ELECTRICAL.										
33 INCHES, W5 (06481) (880565-3)										
(D) CABLE ASSEMBLY. SPECIAL PURPOSE. ELECTRICAL.				1						
21 INCHES, W4 (06481) 88-564-3										
(D) CABLE ASSEMBLY. SPECIAL PURPOSE. ELECTRICAL.				1						
38 INCHES, W2 (06481) (880562-2)										
(D) BRACKET, CLAMPING (06481) 875522-4)				2						
(D) CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL,				1						
13 INCHES, W3 (06481) (880563-2)										
N) POWER SUPPLY PP-7352/USQ-70 (06481)				1						
88-6-0-2)										
BATTERY BOX CY-7560/USQ-70 (06481)										
(880530-8)										
(D) CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL				1						
120 INCHES, W8 (06481) (880532-3)										
(D) CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL										
52 INCHES, W6 (06481) (880531-6)										
(D) CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL.										
11 INCHES, W11 (06481) (880531-1)										
(D) CABLE ASSEMBLY. SPECIAL PURPOSE. ELECTRICAL.				1						
72 INCHES, W9 (06481) (880533-3)										

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STOCK NUMBER a.	ITEM	PTI	U e.	QTY AUTH f.	g. QUANTITY					
					A	B	C	D	E	F
	D) BRACKET, CDU MOUNTING, HELICOPTER (06481)			1						
	D) CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL			1						
	92 INCHES, W7 (06481) (880515-5)									
	D) BRACKET, MOUNTING, SUBFLOOR (06481)			1						
	(880512-1)									
	D) PLATE, SUBFLOOR (06481) (880511-3)			1						
	D) BRACKET, CDU MOUNTING, VEHICLE (06481)			1						
	0			1						
	MANUAL FOR POSITION AND AZIMUTH DETERMINING									
	SYSTEM AN/USQ-70, TM 5-6675-308-12									
5120-00-529-4142	( ) CARRIER BATTERY			1						
	( ) SCREWDRIVER, FLAT-TIP, 1/4-INCH, 6-INCH			1						
5120-00-268-7803	( ) SCREWDRIVER, FLAT-TIP, 3/16-INCH, 3-INCH			1						
5120-00-234-8913	( ) SCREWDRIVER, CROSS-TIP, NO. 2, 4-INCH			1						
5120-00-240-8716	( ) SCREWDRIVER, CROSS-TIP, NO. 1, 3-INCH			1						
5120-00-228-9510	( ) WRENCH, COMBINATION, 3/4-INCH			1						
5120-00-264-3795	( ) WRENCH ADJUSTABLE 6-INCH			1						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH	g. QUANTITY					
						A	B	C	D	E	F
5120-00-247-5177	(D) PLIERS, LONG-NOSE, 6-INCH				1						
	(D) BRUSH, 2-INCH				1						
	(D) WRENCH, COMBINATION, 5/8-INCH				1						
5120-00-228-9707	(D) WRENCH, COMBINATION, 9/16-INCH				1						
5120-00-187-7123	(D) WRENCH, OPEN END, 1/2-INCH AND 7/16-INCH										
5120-00-720-4969	(D) SCREWDRIVER, FLAT-TIP, 3/32-INCH, 2-INCH										
	(D) SCREWDRIVER, CROSS-TIP, NO. 1 AND 2,										
	DOUBLE OFFSET										
5120-00-240-5300	(D) KEY, HEX HEAD, L-TYPE HANDLE, 3/16-INCH										
	(D) KEY, HEX HEAD, L-TYPE HANDLE, 1/4-INCH										
	(D) POUCH, TOOL										

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**HAND RECEIPT/ANNEX NUMBER**  
 For use of this form, see DA PAM 710-2-1.  
 The pronoun agency is ODCSLOG.

FROM:

TO:

FOR ANNEX/CR ONLY | END ITEM STOCK NUMBER | END ITEM DESCRIPTION | PUBLICATION NUMBER: TM 5-6675-308-12 | PUBLICATION DATE | UAN

STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC d.	UI e.	QTY AUTH f.	QUANTITY g.					
						A	B	C	D	E	F
ADDITIONAL AUTHORIZATION LIST (AAL)											
	(X) BATTERY, DRY, 1.5 VOLTS, (81349) (BA30)				4						
6140-00-057-2553	(X) BATTERY, STORAGE, LEAD ACID, CHARGED, DRY, 2HN. 12 VOLTS. BB-249/U (96906) (MS35000-1)				2						
2920-00-143-4388	(D) GENERATOR/ALTERNATOR, 100 AMPERES (NOTE: TO BE INSTALLED ON TRUCK. 1/4-TON WITH LESS THAN 60 AMPERE GENERATOR/ALTERNATOR.) 630593				1						
	(D) INSTALLATION KIT, WINTERIZATION, MK-1822/USQ-70 (NOTE: USED WITH UTILITY TRUCK EQUIPPED WITH HARDTOP OR GASOLINE HEATER.) (06481) (880520-1)				1						
2540-00-051-3839	(D) KIT, WINTERIZATION FOR TRUCK, UTILITY 1/4-TON (NOTE: FOR OPERATION BELOW -30°C (-25°F).) 0207 #712120				1						
	(X) LAMP. MODULE, ALPHA (96182) (351-32300-003)				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 5-6675-308-12-HR



By Order of the Secretary of the Army:

Official:

**E. C. MEYER**  
*General, United States Army*  
*Chief of Staff*

**ROBERT M. JOYCE**  
*Major General, United States Army*  
*The Adjutant General*

**DISTRIBUTION:**

To be distributed in accordance with DA Form 12-25A, Organizational Maintenance Requirements for Surveying Equipment.





# 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 = 3.4 fluid ounce  
 1 deciliter = 10 centiliters = 3.38 fluid ounces  
 1 liter = 10 deciliters = 33.81 fluid 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 square millimeters = .155 square inch  
 1 sq. decimeter = 100 square centimeters = 15.5 square inch  
 1 sq. meter (centare) = 100 square decimeters = 10.76 square feet  
 1 sq. dekameter (are) = 100 square meters = 1,076.4 square feet  
 1 sq. hectometer (hectare) = 100 square dekameters = 2.47 acres  
 1 sq. kilometer = 100 square hectometers = .386 square mile

## Cubic Measure

1 cu. centimeter = 1,000 cubic millimeters = .06 cubic inch  
 1 cu. decimeter = 1,000 cubic centimeters = 61.02 cubic inches  
 1 cu. meter = 1,000 cubic decimeters = 35.31 cubic 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	1.198
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	1.365	metric tons	short tons	1.102
pound-inches	newton-meters	.11375			

## Temperature (Exact)

"F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	"C
"c	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	"F

