

**TECHNICAL MANUAL**

**HAND RECEIPT**

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

**FOR**

**2-CHANNEL MULTIPLEXER TD-1288( )/GRC  
(NSN 5820-01-090-1414)**

**AND**

**5-CHANNEL MULTIPLEXER TD-1289( )(V)/GRC  
(NSN 5820-01-090-5407)**

**HAND RECEIPT**

TM 11-5820-880-12-HR

**HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 24 August 1983**

**HAND RECEIPT  
COVERING CONTENTS OF COMPONENTS OF END ITEM (COEI),  
BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL)  
FOR  
2-CHANNEL MULTIPLEXER TD-1288( )/GRC  
(NSN 5820-01-090-1414)  
AND  
5-CHANNEL MULTIPLEXER TD-1289( )/GRC  
(NSN 5820-01-090-5407)**

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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, let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703, A reply will be sent direct to you.

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		<b>Page</b>
Section	I. Introduction .....	1
	II. Hand Receipt .....	3

## 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 2-Channel Multiplexer TD-1288( )/GRC and 5-Channel Multiplexer TD-1289( )(V)/GRC.

### 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 11-5820-880-12. The listings consist of exactly the same items and are in the same sequence as those listings in TM 11-5820-880-12.

*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 in 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 The US Army Adjutant General Publications Center, Baltimore, MD, in accordance with the procedure in Chapter 3, AR 310-2, and DA Pam 310-10-2.

### 3. Explanation of Blocks and Columns (DA Form 2062)

Refer to DA Pam 710-2-1, Chapter 6. Additional information required to complete DA Form 2062 is

- a. From.* Enter the organization for which the property book is maintained.
- b. To.* Enter the 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) to 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 TM.
- 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 Federal Supply Code for Manufacturers (FSCM) and part number direct from: US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-MM, Fort Monmouth, NJ 07703.

*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.

*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 (5th position of the SMR code) assigned to the item in the RPSTL.

(1) Refer to DA Pam 710-2-1, Chapter 6. Additional information required to complete DA Form 2062 is listed below.

(2) Hand receipts shall identify the accounting requirements status of all line item entries via column c. 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, 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".

*l. 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**

A	CONFIDENTIAL — Former Restricted Data
B	CONFIDENTIAL — Restricted Data
C	CONFIDENTIAL
D	CONFIDENTIAL — Cryptologic
E	SECRET — Cryptologic
F	TOP SECRET — Cryptologic
G	SECRET — Former Restricted Data
H	SECRET — Restricted Data
K	TOP SECRET — Former Restricted Data
L	TOP SECRET — Restricted Data
O	Naval Nuclear Propulsion Information
S	SECRET
T	TOP SECRET
U	UNCLASSIFIED

**SENSITIVE ITEMS**

P	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 I, II, IV or V as defined in the Controlled Substance Act of 1970, and other items requiring secure storage.
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.

**PILFERABLE ITEMS**

I	Aircraft engine equipment and parts.
M	Handtools and shop equipment.
N	Firearms.
V	Individual clothing and equipment.
w	Office machines.
x	Photographic equipment and supplies.
Y	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 recoding the items to J.

*m. UI (Column e).* Unit of Issue.

*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. To be filled in by the receiving unit/personnel.

*p. Page No. /No. 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.

#### **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 the appropriate MTOE, TDA, CTA, or JTA authorization documents.

### **Section II. HAND RECEIPT**

Following is the Hand Receipt for 2-Channel Multiplexer TD-1288( )/GRC and 5-Channel Multiplexer TD-1289( )(V)/GRC.

<b>HAND RECEIPT</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	END ITEM DESCRIPTION			PUBLICATION NUMBER			PUBLICATION DATE			QUANTITY				
	See Below	Multiplexers TD-1288( )/GRC & TD-1289( )(V)/GRC			TM 11-5820-880-12			24 Aug 1983			1				
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>	QUANTITY <i>g.</i>						
								A	B	C	D	E	F		
5820-01-090-1414	2-CHANNEL MULTIPLEXER TD-1288( )/GRC														
	Components of End Item (COEI)														
5820-01-091-9450	BANDPASS FILTER (80058) F-1482( )/GRC				N	U	EA	2							
5820-01-091-0836	COUPLER (80058) CU-2266( )/GRC				N	U	EA	1							
5820-01-091-0835	MULTIPLEXER CASE (80058) CY-7775( )/GRC				N	U	EA	1							
	Basic Issue Items (BII)														
	NOT APPLICABLE														
	Additional Authorization List (AAL)														
	NOT APPLICABLE														
* 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 11-5820-880-12-HR

3

STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH	g. QUANTITY					
						A	B	C	D	E	F
	3-CHANNEL MULTIPLEXER TD-1289( )(V)/GRC										
	Components of End Item (COEI)										
5820-01-091-9450	BANDPASS FILTER (80058) F-1482( )/GRC	N	U	EA	3						
5820-01-091-0837	COUPLER (80058) CU-2267( )/GRC	N	U	EA	1						
5820-01-091-0834	TERMINATION UNIT (80058) MX-10080( )/GRC	N	U	EA	2						
5820-01-091-6802	MULTIPLEXER CASE (80058) CY-7776( )/GRC	N	U	EA	1						
	Basic Issue Item (BII)										
	NOT APPLICABLE										
	Additional Authorization List (AAL)										
	NOT APPLICABLE										

TM 11-5820-880-12-HR

4



<b>HAND RECEIPT</b> <i>For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG.</i>	FROM	TO	HAND RECEIPT NUMBER
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FOR ANNEX CR ONLY	END ITEM STOCK NUMBER <b>SEE BELOW</b>	END ITEM DESCRIPTION <b>Multiplexers TD-1288( )/GRC &amp; TD-1289( )/GRC</b>	PUBLICATION NUMBER <b>TM 11-5820-880-12</b>	PUBLICATION DATE <b>24 Aug 1983</b>	QUANTITY <b>1</b>
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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	4-CHANNEL MULTIPLEXER TD-1289( )/GRC										
	Components of End Item (COEI)										
5820-01-091-9450	BANDPASS FILTER (80058) F-1482( )/GRC	N	U	EA	4						
5820-01-091-0837	COUPLER (80058) CU-2267( )/GRC	N	U	EA	1						
5820-01-091-0834	TERMINATION UNIT (80058) MX-10080( )/GRC	N	U	EA	1						
5820-01-091-6802	MULTIPLEXER CASE (80058) CY -7776( )/GRC	N	U	EA	1						
	Basic Issue Items (BII)										
	NOT APPLICABLE										
	Additional Authorization List (AAL)										
	NOT APPLICABLE										

\* 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 11-5820-880-12-HR

STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC d.	UI e.	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
5820-01-090-5407	5-CHANNEL MULTIPLEXER TD-1289( )(V)1/GRC										
	Components of End Item (COEI)										
5820-01-091-9450	BANDPASS FILTER (80058) F-1482( )/GRC	N	U	EA	5						
5820-01-091-0837	COUPLER (80058) CU-2267( )/GRC	N	U	EA	1						
5820-01-091-6802	MULTIPLEXER CASE (80058) CY-7776( )/GRC	N	U	EA	1						
	Basic Issue Items (BII)										
	NOT APPLICABLE										
	Additional Authorization List (AAL)										
	NOT APPLICABLE										

TM 11-5820-880-12-HR

9

By Order of the Secretary of the Army:

Official:

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

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

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# THE METRIC SYSTEM AND EQUIVALENTS

## WEIGHT MEASURE

1 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

## WEIGHTS

1 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

## 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

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$   
 212° Fahrenheit is equivalent to 100° Celsius  
 90° Fahrenheit is equivalent to 32.2° Celsius  
 32° Fahrenheit is equivalent to 0° Celsius  
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

## APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



**PIN : 053923-000**