HAND RECEIPT

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

FOR

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A2 (NSN 2350-01-031-0586)

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A3 (NSN 2350-01-031-8651)

HEADQUARTERS, DEPARTMENT OF THE ARMY

This manual supersedes TM9-2350-217-10-HR dated 16 September 1985 and TM 9-2350-303-10-HR dated 6 August 1985.

CHANGE

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 24 August 1989

No. 1

HAND RECEIPT

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

FOR

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A2 (NSN 2350-01-031-0586)

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A3 (NSN 2350-01-031-8851)

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A4 (NSN 2350-01-277-5770)

TM 9-2350-311-10-HR, 27 June 1986, is changed as follows:

- 1. The purpose of this change is to incorporate modifications applied by MWO 9-2350-311-50-9 to update M109A2/M109A3/M109A4 howitzers.
- 2. On front cover, beneath "Headquarters, Department of the Army", add "Distribution Statement A: Approved for public release; distribution is unlimited." Also add below (NSN 2350-01-031-8851) the following "HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A4 (NSN 2350-01-277-5770)".
- 3. New or changed material is indicated by a vertical bar in the outside margin of text changes.
- 4. Remove old pages and insert new pages in manual as indicated below. File this change sheet in back of manual for reference.

Remove Pages Insert Pages

1 and 2 1 and 2

Additional Authorization List (AAL) Additional Authorization List (AAL)

1 thru 12 of 12 1 thru 14 of 14

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

WILLIAM J. MEEHAN II

Brigadier General, United States Army The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-37, Operator Maintenance requirements for Howitzer, Medium, Self-Propelled, 155-MM, M109A2/A3.

No. 9-2350-311-10-HR

HAND RECEIPT

COVERING CONTENTS OF COMPONENTS OF END ITEM (COEI), BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL) FOR HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A2 (NSN 2350-01-031-0586)

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A3 (NSN 2350-01-031-8851)

HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A4 (NSN 2350-01-277-5770)

REPORTING OF ERRORS

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) direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000. A reply will be furnished to you.

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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 Howitzer, Medium, Self-Propelled, 155MM, M109A2 and M109A3.

2. GENERAL.

Section II is the overprinted DA Form 2062 which lists the content of COEI, BII, and AAL extracted from TM 9-2350-311-10. The listings consist of exactly the same items and are in the same sequence as those listings in TM 9-2350-311-10.

Distribution Statement A: Approved for public release; distribution is unlimited.

- 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 may be requisitioned from the US Army Adjutant General Publications Center, 2800 Eastern Boulevard, Baltimore. MD 21220-2896 in accordance with Chapter 3, AR 310-2.
- 3. EXPLANATION OF BLOCKS AND COLUMNS (DA FORM 2062). Refer to DA PAM 710-2-1, Chapter 5. Additional information required to complete DA Form 2062 is listed below:
- a. Hand receipts shall identify the accounting requirements status of all line item entries via Column C.

One of the following Accounting Requirements Codes (ARC) will apply:

(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, 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) 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 appropriate MTOE, TDA, CTA, or JTA authorization documents.
- 4. USABLE ON CODE. "USABLE ON" codes are included to help in identifying which component items are used on different models. With the exception of COEI item PANORAMIC TELESCOPE M117. All other items in the HR are used on both vehicles. The "USABLE ON" column is therefore left blank.

HAND RECEIPT For use of this form, see DA PAS	FROM	го				HAND REC	EIPT NUMBER
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FOR ENDITEM STOCK NUMBER (S) ANNEX CR ONLY See Columns a below	ENDITEM DESCRIPTION Howitzer, Med, Sp, PUBL 155MM, M109A2 and M109A3	LICATION NUMBER TM 9-2350-311	-10-HR	PUBLICATION	DATE	QUANTITY	1
STOCK NUMBER	ITEM DESCRIPTION	*	SEC UI	QTY g.		QUANTITY	
a.	b .	с.	d. e.	7. A	8	С Б	E F
2350-01-031-0586	HOWITZER, MEDIUM, SELF-PROPELLED	N					
	155MM, M109A2						
2350-01-031-8851	HOWITZER, MEDIUM, SELF-PROPELLED	N					
	155MM, M109A3						
	Components of End Item (COEI)						
1005-00-704-6650	MOUNT, MACHINE GUN, CAL. 50	N	ea.	1			
	(19204) 7046650						
1240-00-344-4643	PERISCOPE, M27 (chief of section)	N	ea.	1			
	(19200) 7633132						
1240-00-509-2743	PERISCOPE, M45 (driver's)	N	ea.	3			
	(19200) 8213430						
1240-01-092-2693	TELESCOPE, ELBOW M118A2	N	ea.	1			
* WHEN USED AS A: HAND RECEIPT, enter Hand Rec	ariot Annex Number						
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DA FORM 2062 CURRENT AS OF 27 JUNE 1986. EDITION OF JAN 58 IS OBSOLETE.

TM 9-2350-311-10-HR	Howitzer, Med, Sp, M109A2, M109A3										
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	COEI (Continued)					<u> </u>					
1240-00-106-7754	TELESCOPE, PANORAMIC M117A2	N		ea.	1						
	(19200) 11739510										
1240-00-864-2930	TELESCOPE, PANORAMIC M117	N		ea.	1						
	(A 3 vehicle only) (19200) 7660400										
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								ary	8.		QUAN	ITITY		
STOCK NUMBER a.		ITEM DESCRIPTION b.			*	SEC d.	UI e.	AUTH	^	8	С	С	E	F
	Add	itional Authorization Li	ist (AAL)											
4930-00-288-1511	ADAPTER,	GREASE GUN 12 1g			X		ea.	1						
	(8134	9) MIL-L-4387												
5120-00 -227-8088	ADAPTER,	SOCKET WRENCH, 1/2 in -	3/4 in (in too	ol bag)	N		ea.	1						
	(8134	8) GGG-W-641												
5110-00-293-2336	AXE, SIN	GLE BIT 4 1b			D		ea.	1						
	(1920	7) 6150925												
5120-00-526-6044	BAR, PIN	CH 1/2 inch x 11-7/8 1	g		X		ea.	1						
	(1920	94) 5266044												
2590-00-906-4741	BOX ASSE	MBLY, SPARE bulb			Х		ea.	1						
	(1920	7) 10870949												
1025-00-730-7400	BRUSH, C	CLEANING, ARTILLERY			D		ıеа.	1						
	(1920	06) 8765994												•
5140-00-261-4994	CARRIER,	, TOOL M1938			D		ea.	1						
	(1920	07) 11655787												
* WHEN USED AS A:	<u>. </u>													

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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TM 9-2350-311-10-HR Howitzer, Med, Sp, 155MM, M109A2 and M109A3

STOCK NUMBER	ITEM DESCRIPTION		SEC	u	QTY	g.		QUA	NTITY	-	
a .	ь.	* c.	d.	٠ د	AUTH J.	A	8	С	D	E	F
	AAL (Continued)										
5110-00-236-3272	CHISEL, COLD HAND 3/4 x 8 lg	D		ea.	1						
	(8134) GGG-C-313										
1025-00-557-6513	COVER ASSEMBLY	х		ea.	1						
	(19206) 5576513										
5120-00-227-8074	EXTENSION, SOCKET WRENCH 1/2 dr x 10 lg	D		ea.	1						
	(19207) 11655788-1										
5120-00-227-8079	EXTENSION, SOCKET WRENCH 3/4 dr x 16 lg	D		ea.	1						
	(55719) L122										
5120-00-273-9208	EXTENSION, SOCKET WRENCH 3/4 dr x 3 1g	D		ea.	1						
	(81348) MS16243-14						1				
5110-00-241-9160	FILE, HAND three square, smooth, 6 lg	D		ea.	1						
	(81348) GGG-F-325										
4933-00-340-1129	FIXTURE, GUN TUBE LEVELING	N		per btry	1		İ				
	(19207) 11578744			,							
5120-00-900-6097	HAMMER double face with handle, 10 lb	D		ea.	1						
	(81348) GGG-H-86										
5120-00-288-6574	HANDLE, MATTOCK-PICK	X		ea.	2		1				
	(19207) 11677021			7							
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ANNEX CR See p.1 of COEI	155MM, M109A2 and M109A3 TM 9-23	<u>50-311-</u>	<u>10-HR</u>		_	r				1	—
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	AAL (Continued)		ļ								!
5120-00-099-8544	HANDLE, SOCKET WRENCH T-handle 3/4 dr x 12 lg	D		ea.	1						<u></u> '
	(50024) 2479141										<u>—</u> ′
5120-00-249-1071	HANDLE, SOCKET WRENCH 1/2 dr nutspeeder	D	<u> </u>	ea.	1]	<u> </u>
	(81348) GGG-W-641]	<u> </u>
5120-00-230-6385	HANDLE, SOCKET WRENCH ratchet 1/2 dr x 9-1/2 lg	D		ea.	1						<u> </u>
3120 00 200 0000	(80064) 14U1502				<u> </u>						<u></u>
5120-00-241-3142	HANDLE, SOCKET WRENCH 1/2 x 7 lg	D		ea.	1	<u> </u>	<u> </u>	_			-
	(55719) 510		<u> </u>	<u> </u>	 		<u> </u>	<u> </u>			_
5100-00-222-0457	HATCHET, CLAW 4-cut	D	igspace	ea.	1	<u> </u>	 	╄		<u> </u>	-
	(81348) GGG-H-131		—	—	igspace	—	<u> </u>	ـــ		<u></u> '	\vdash
5120-00-224-2510	KEY, SOCKET HEAD SCREW 5/8	D	↓_	ea.	. 1	ــــــ	├	—	-	<u></u> '	-
	(81348) GGG-K-275			igspace	—		 	—	 	<u> </u>	1
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HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes

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STOCK NUMBER	ITEM DESCRIPTION	*	SEC	Uı	QTY	g.		QUA	NTITY		
a .	AAL (Continued)	- .	d.	e.	ſ.	_^	8	С	D	E	
5120-00-224-2510	KEY, SOCKET HEAD SCREW 5/8	D		ea.	1						
5120-00-224-4659	(81348) GGG-K-275 KEY, SOCKET HEAD SCREW 1/4	D	-	ea.	1						
5120-00-240-5292	(80065) 1940720 KEY, SOCKET HEAD SCREW 1/8	D		ea.	1						
5120-00-242-7410	(1348) GGG-K-275 KEY, SOCKET HEAD SCREW 3/32 (92674) BA27077-4	D		ea.	1						
6240-00-019-0877	LAMP, INCANDESCENT elec 3 cp 24-28V, 10 No. 1251 (blackout marker)	X		ea.	1						
6240-00-019-3093	(96906) MS15570-1251 LAMP, INCANDESCENT elec 6 cp 24-28V, No. 623	X		ea.	1						
	(dome lights)			-				_			<u>. </u>
6240-00-155-7836	(96906) MS15570-623 LAMP, INCANDESCENT elec 24-28V No. 327	X		ea.	18			_	\dashv		
	(tlscp M117A2 and mount M145) (96906) MS25237-327				-	-	_	_	1	1	_
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6240-0	00–155–8714	LAMP,]	NCANDESCENT elec 17 amp 24	4-28V No. 313	x			ea.	4						
		(ins	trument panel warning ligh	nt)											
		(969	006) MS25231-313												
6240-0	00–635–9800	LAMP,	NCANDESCENT No. 325		,	'		ea.	4						
		(969	006) MS51608-3	, , , , , , , , , , , , , , , , , , ,											
6240-0	00–155–7864	LAMP,	NCANDESCENT elec 3V, No.	323)	'		ea.	2						
		(M2	'Fuze setter)											_	
		(81	348) W-L 00111/10												
6240-0	00-051-4843	LAMP,	INCANDESCENT		,	`		ea.	2						
		(96	906) MS25236-8623												
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TM 9-2350-311-10-HR Howitzer, Med. Sp. 155MM, M109A2 and M109A3

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5980-01-285-6689	LED, T1-3/4 BASED	X		ea.	4						
	12360905-1										
5980-01-289-5274	LED, T1-3/4 BASED	х		ea.	4						
	12360905–2										
5980-01-285-6688	LED, T3-1/4 BASED	Х		ea.	4						
	12360890-1										
6220-01-290-9346	MARKER ASSEMBLY	Х		ea.	1						
	12360860-2										
6220-01-284-2709	MARKER ASSEMBLY, REAR	Х		ea.	1						
	12360850-1										
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CTOCK AUMARER			ITEM DESCRIPTION		*	SEC	I	ΩΤΥ	8.		QUAN	ATITY		
STOCK NUMBER a.			b.	 	ř.	d.	U e.	AUTH f.	A	В	С	۵	E	F
	AAL (C	Conti	nued)					ļ						<u> </u>
				 										<u> </u>
5120-00-243-2395	MATTOCK	(head	i		D		ea.	1						<u> </u>
	(19	9207)	11677022				<u></u>							L
5120-00-194-9458	PICK, I)IGGII	NG head		D		ea.	1						
	(81	1348)	GGG-H-506											
	(58	3536)	A-A-338											
5315-00-861-1473	PIN, LO)CK			х		ea.	2						
	(19	206)	8767184											
5120-00-223-7397	PLIERS,	, SĻII	P JOINT w/cutter 8 1g	 	D		ea.	1						
	(19	2 07)	5214421	 										
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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).

* WHEN USED AS A:

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TM 9-2350-311-10-HR Howitzer, Med, Sp, 155MM, M109A2 and M109A3

STOCK NUMBER	ITEM DESCRIPTION	1.	SEC	u	QTY	8.		QUA	YTTTY		
e.	ь.	* c.	d.	Į.	J.	^		С	٥	E	F
	AAL (continued)										
5120-00-293-0791	PUNCH, DRIVE PIN straight type 3/16 dia	D		ea.	1						
	(81348) GGG-P-831										
4933-00-796-4537	ROLL ASSEMBLY, TOOLS AND EQUIPMENT	Х		ea.	1						
- · · · · · · · · · · · · · · · · · · ·	(19207) 7964537										
5120-00-234-5223	RULE, STEEL machinist 6 inches	D		ea,	1						
	(81348) GGG-R-791										
5120-00-227-7338	SCREWDRIVER, FLAT TIP machinist extra heavy	D		ea.	1						
	duty, 5 inch blade										
	(77948) D339										
5120-00-236-2127	SCREWDRIVER, FLAT TIP 3 inch 1g blade, 3/16 tip	D		ea.	1						
	(89905) 133690–10										
5120-00-278-1283	SCREWDRIVER, FLAT TIP common normal duty	D		ea.	1						
	single grip, 6 inch blade										
	(19207) 4151104										
											<u> </u>
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HAND RECEIPT For use of this form, see DA PA	M 710-2-1.	то			-			HAN	O RECEI	PT NUR	MBER		
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	ITEM DESCRIPTION	*	SEC	u	QTY	g.		QUAN	QUANTITY				
STOCK NUMBER a.	item description b.	, , , , , , , , , , , , , , , , , , ,	d.		AUTH f.	A	8	С	D	E	F		
	AAL (Continued)		<u> </u>										
5120-00-188-8450	SHOVEL, HAND genl purpose long handled	D	-	ea.	. 2					\dashv			
•	strap back rd point												
	(81348) GGG-S-326									_			
5120-00-293-3336	SHOVEL, HAND genl purpose rd point D-handle	D		ea.	1								
	(19207) 11655784												
5120-00-189-7911	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 3/8 opn	g D		ea.	1								
	(65814) ST812												
5120-00-189-7913	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 1-1/16	opng D		ea.	1								
	(19207) 11677025-8		<u> </u>										
5120-00-189-7914	SOCKET, SOCKET WRENCH	D		ea.	1								
	1/2 dr, 12 pt x 1-1/8 opng												
	(19207) 11677025-10		-										
* WHEN USED AS A:													

HAND RECEIPT, enter Hand Receipt Annex Number

HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes

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

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TM 9-2350-311-10-HR Howitzer, Med, Sp, 155MM, M109A2 and M109A3

STOCK NUMBER	ITEM DESCRIPTION	1.	SEC	l u	QTY HTUA	8.		QUANTITY				
a .	ь.	* c.	d.	e.	J.	4	8	С	D	٤	F	
	AAL (Continued)	 		-	-			<u> </u>			\vdash	
5120-00-189-7924	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 7/16 opng	D	-	ea.	1						F	
	(95683) 41W3005										F	
5120-00-189-7930	SOCKET, SOCKET WRENCH 3/4 dr, 12 pt x 1-3/8 opng	D		ea.	1						H	
	(47805) 5544						_				r	
-5120-00-189-7931	SOCKET, SOCKET WRENCH 3/4 dr, 12 pt x 1-7/16 opng	D		ea.	1						l	
	(47805) 5546					-						
5120-00-189-7934	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 7/8 opng	D		ea.	1						Ī	
	(19207) 11677025-5											
5120-00-189-7935	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 15/16 opng	D		ea.	1							
	(19207) 11677025-6										_	
5120-00-189-7946	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 5/8 opng	D		ea.	1						_	
	(19207) 11677025-2										_	
5120-00-189-7985	SOCKET, SOCKET WRENCH 1/2 dr, 12 pt x 3/4 opng	D		ea.	1							
	(19207) 11677025-4											
5120-00-232-5681	SOCKET, SOCKET WRENCH 3/4 dr, 12 pt x 1-5/16 opng	D		ea.	1							
	(81348) GGG-W-641					\bot		\bot				
5120-00-293-0094	SOCKET, SOCKET WRENCH 3/4 dr, 12 pt x 1-12 opng	D		ea.	1	\perp		_	\perp	\bot		
	(47805) 5548			_		_	_	\perp	_	\bot	_	
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HAND RECEIPT NUMBER τo FROM. HAND RECEIPT For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG. QUANTITY FOR END ITEM STOCK NUMBER (S)
ANNEX CR
ONLY
See p.1 of COEI END ITEM DESCRIPTION HOW TZER, Med, Sp., PUBLICATION NUMBER PUBLICATION DATE TM- 9-2350-311-10-HR 155MM, M109A2 and M109A3 QUANTITY OTY E. ITEM DESCRIPTION SEC U AUTH STOCK NUMBER e. AAL (Continued) SOCKET, SOCKET WRENCH 1/2 dr, 6 pt x 7/16 opng eа. 5130-00-221-8005 (55719) P140 SOCKET, SOCKET WRENCH 1/2 dr, 6 pt x 9/16 opng D ea. 5130-00-221-8007 (55719) P180 SOCKET, SOCKET WRENCH 3/4 dr, 1-1/4 D ea. 5120-00-235-5871 (47805) 5540 STOVE, GASOLINE BURNER w/case ea. 7310-00-285-6155 (81349) MIL-S-10736 ea. TRIPOD, SURVEYING (use with aiming post 6675-00-240-1881 for arctic use only) (81349) MIL-T-11674

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).

PAGE 11 OF 14 PAGES

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TM 9-2350-311-10-HR Howitzer, Med, Sp, 155MM, M109A2 and M109A3

STOCK NUMBER	ITEM DESCRIPTION		SEC	u	QTY AUTH	g.		OUA	NTITY		
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	AAL (Continued)					L		<u> </u>			
5120-00-269-7971	UNIVERSAL JOINT, SOCKET WRENCH 1/2 dr	D		ea.	1	L.	<u> </u>				
	(18702) S140						<u> </u>				
5120-00-187-7123	WRENCH, OPEN END engr 15 deg angle double	D		ea.	1						1
	head 7/16 x 1/2										1
	(55716) S1416										
5120-00-187-7130	WRENCH, OPEN END engr 15 deg angle double	D		ea.	1						1
	head 13/16 x 7/8										I
	(07971) E2628	-									I
5120-00-224-3102	WRENCH, OPEN END engr 15 deg angle double	D		ea.	1						İ
	head 5/8 x 3/4										ŀ
	(65814) 729									<u> </u>	ŀ
5120-00-277-2307	WRENCH, OPEN END engr 15 deg angle double	D		ea.	1						ŀ
	head 5/16 x 3/8										l
	(55719) S1012										ŀ
5120-00-277-7025	WRENCH, OPEN END engr 15 deg angle double	D		ea.	1						
	head 15/16 x 1		_								
	(19207) 11544789-5										
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Reverse of DA Form 2062

PAGE 12 OF 14 PAGES

HAND RECEIPT		FROM			το							HAI	ID RECE	IPT NU	MSER
For use of this form, see DA PA	M 710-2-1.				:							1			
The proponent agency is ODCSL	. <i>OG</i> .	<u>L</u>		T	L				GLIDI V	ATION	DATE	- 00	ANTITY		
FOR END ITEM STOCK NUMBER (S)									70800	AIION	UATE	QUANTITY 1			
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5120-00-293-2134	WRENCH, C	PEN END engr 15 d	ieg angle d	double		D		ea.	1						
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	head	9/16 x 11/16				<u> </u>					-		\vdash		
	(1920)	') 5323330													
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5120-00-164-3777	WRENCH, S	PANNER adjustable	9			D		ea.	1						
	(65814	1) 181					İ								
	(0301-	7 404					_				-				
5120-00-277-9076	WRENCH, S	SPANNER adjustable	e 2 to 4-3/	4		D		ea.	1						
	(1920)	7) 5218469													
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HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes

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

PAGE 13 OF 14 PAGES

TM 9-2350-311-10-HR Howitzer, Med, Sp, 155MM, M109A2 and M109A3

STOCK NUMBER	ITEM DESCRIPTION		SEC	u	ary	g. QUANTITY							
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By Order of the Secretary of the Army:

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

R.L. DILWORTH

Brigadier General, United States Army The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-37, Operator Maintenance requirements for Howitzer, Medium, Self-Propelled. 155-MM. M109A2/A3.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

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PREVIOUS EDITIONS ARE OBSOLETE.

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

THE METRIC SYSTEM AND EQUIVALENTS

'NEAR MEASURE

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

YEIGHTS

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

 $5/9(^{\circ}F - 32) = ^{\circ}C$

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	
Miles	Kilometers	
Square Inches	Square Centimeters	
Square Feet	Square Meters	
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	
Cubic Feet	Cubic Meters	
Cubic Yards	Cubic Meters	
Fluid Ounces	Milliliters	
nts	Liters	
arts	Liters	
allons	Liters	
Ounces	Grams	
Pounds	Kilograms	
Short Tons	Metric Tons	
Pound-Feet	Newton-Meters	
Pounds per Square Inch	Kilopascals	
Miles per Gallon	Kilometers per Liter	
Miles per Hour	Kilometers per Hour	
•		

TO CHANGE	то	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	
Meters	Yards	
Kilometers	Miles	
Square Centimeters	Square Inches	
Square Meters	Square Feet	
Square Meters	Square Yards	1 106
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	
Cubic Meters	Cubic Feet	
Cubic Meters		
	Cubic Yards	
Milliliters	Fluid Ounces	
Liters	Pints	
Liters	Quarts	
'ers	Gallons	
.ms	Ounces	
.ograms	Pounds	
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
meters per Hour	Miles per Hour	



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