

Supersedes copy dated August 1995.

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**UNIT, DIRECT SUPPORT AND GENERAL
SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL
TOOLS LIST (INCLUDING DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS)
FOR**

**CAB, ARMAMENT, SIGHTING AND FIRE CONTROL,
ELEVATING AND TRAVERSING SYSTEMS,
AND ASSOCIATED COMPONENTS HOWITZER,
MEDIUM, SELF-PROPELLED:
155MM**

M109A2 (NSN 2350-01-031-0586) (EIC: 3EZ)

M109A3 (NSN 2350-01-031-8851) (EIC: 3E2)

M109A4 (NSN 2350-01-277-5770) (EIC: 3E8)

M109A5 (NSN 2350-01-281-1719) (EIC: 3E7)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

31 JULY 1998

TECHNICAL MANUAL }
 No. 9-2350-311-24P-2 }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 Washington D.C., 31 July 1998

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 GENERAL SUPPORT MAINTENANCE
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Current as of

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*This manual supersedes Army TM 9-2350-311-24P-2, dated 22 August 1995

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UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

SECTION I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit, direct support, and general support, and depot maintenance on the M109A2/M 109A3/M109A4/M 109A5 howitzer. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. General.

In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence. Bulk materials are listed by name in FIG. BULK at the end of the section. Repair part kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section.

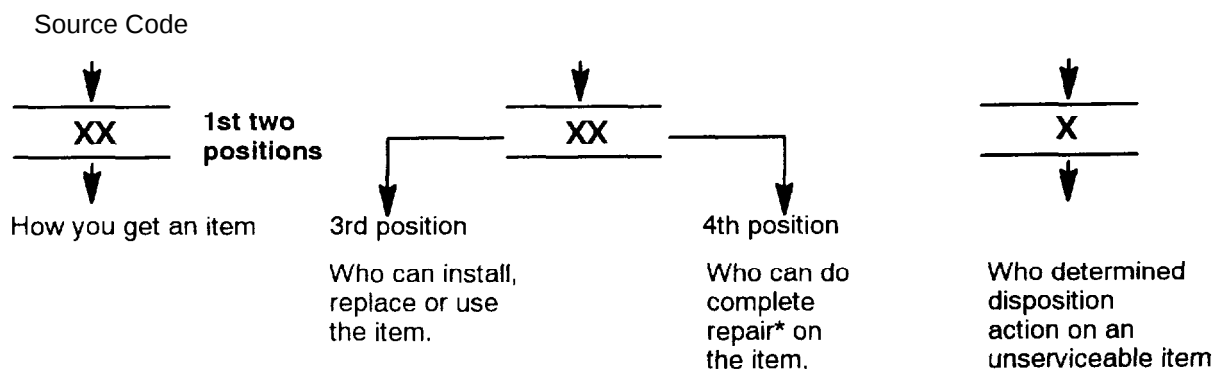
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI)) information in DESCRIPTION AND USABLE ON CODE (UOC) column) for the performance of maintenance.

c. Section IV. Cross-Reference Index. There are two cross-reference indexes in this RPSTL. The National Stock Number Index and the Part Number Index. The National Stock Number Index refers you to the figure and item number. The Part Number Index refers you to the NSN and to the figure and item number.

3. Explanation of Columns (Sections II and III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

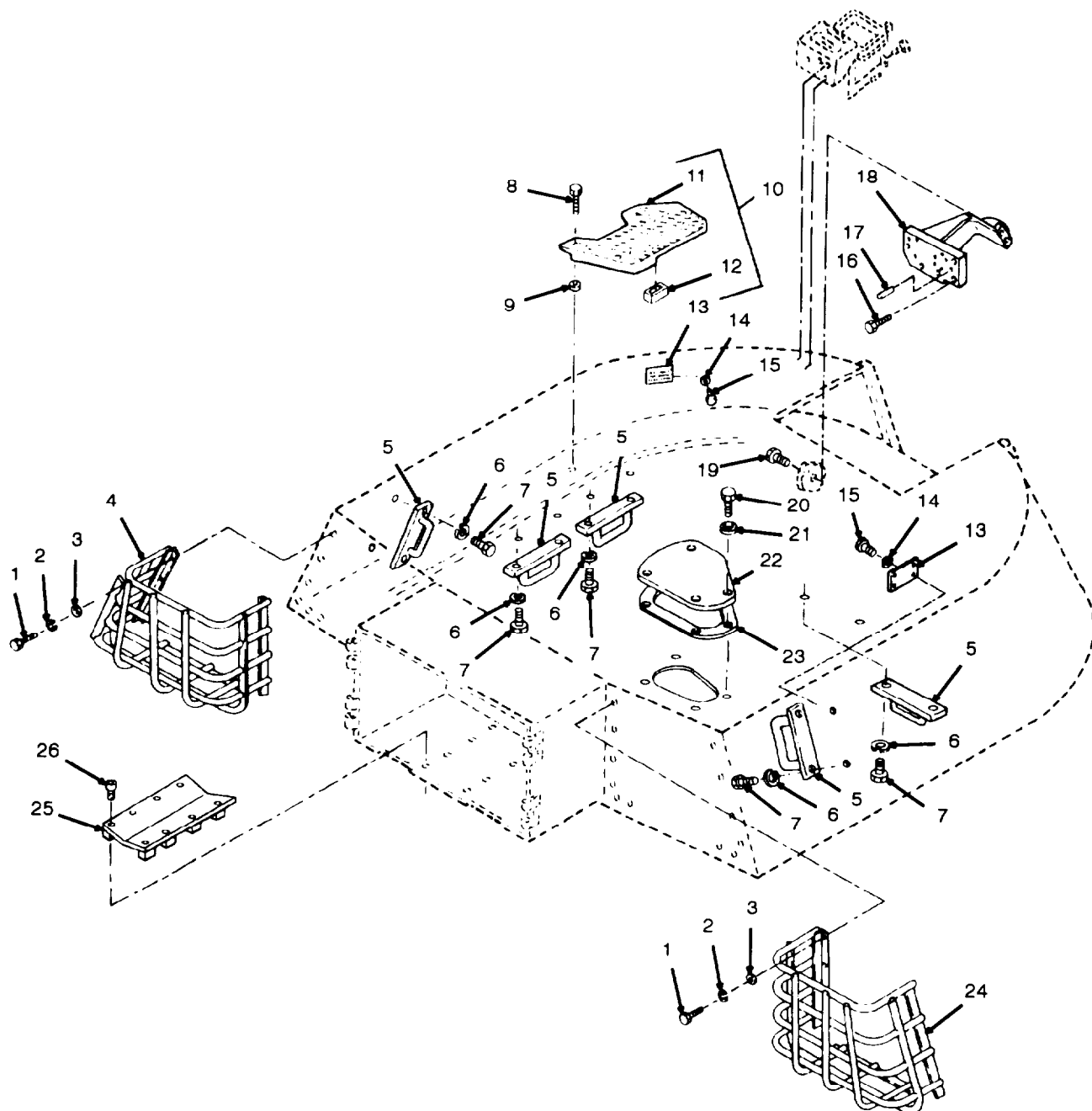


Figure 1. Cab Assembly, Baskets and Handles

SECTION II

TM9-2350-311-24P-2

(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SMR			PART		
NO	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 00 CAB ASSEMBLY						
FIGURE 1 CAB ASSEMBLY, BASKETS AND HANDLES						
1	PAOZZ	5305009422196	96906	MS18154-60	SCREW,CAP,HEXAGON H HEAD	24
2	PAOZZ	5310000115093	96906	MS35338-65	WASHER,LOCK	24
3	PAOZZ	5310008775972	19200	10910174-3	WASHER,FLAT	24
4	PAOZZ	2510000811138	19207	10954698	SIDE RACK,VEHICLE B LEFT	1
5	PAOZZ	5340010909742	19204	12012325	HANDLE,BOW	5
6	PAOZZ	5310006379541	96906	MS36338-46	WASHER,LOCK	10
7	PAOZZ	5305002693235	80204	B1821BH038F088N	SCREW,CAP,HEXAGON H HEAD	10
8	PAOZZ	5306008659498	96906	MS35764-1121	BOLT,SELF-LOCKING	2
9	PAOZZ	5310010950724	19207	10888410	WASHER,FLAT	2
10	PAOOO	1025010561247	19207	12012120	PLATE,COVER	1
11	XAOZZ		19204	12012121	. PLATE	1
12	PAOZZ	2590011833763	19204	12012124	.PAD,CUSHIONING	2
13	PAOZZ	9905011354952	19200	11785263	PLATE,INSTRUCTION LEAD CHART (ONE ON CAB, ONE ON CUPOLA)	2
14	PAOZZ	5310009839732	96906	MS9321-06	WASHER,FLAT	8
15	PAOZZ	5305000546651	96906	MS51957-27	SCREW,MACHINE	8
16	PAFZZ	5305009044008	96906	MS90727-231	SCREW,CAP,HEXAGON H HEAD	4
17	PAFZZ	5315011190596	96906	MS16555-365	PIN,STRAIGHT,HEADLE HEADLESS	1
18	PBFZZ	5340010794681	19200	12012151	BRACKET,MOUNTING	1
19	PAFZZ	5305007195221	80204	B1821BH050F150N	SCREW,CAP,HEXAGON H HEAD	2
20	PAOZZ	5305009261826	80204	BI821BH075F275N	SCREW,CAP,HEXAGON H HEAD	4
21	PAOZZ	5310008777527	19200	10910174-8	WASHER,FLAT	4
22	XAOZZ		19207	10954590	COVER,ACCESS	1
23	PAOZZ	5330008861176	19204	10897870	GASKET	1
24	PAOZZ	2510000811137	19207	10954699	SIDE RACK,VEHICLE B RIGHT	1
25	PAFZZ	1025010592486	19204	12012323	PLATE.WEAR.BUSTLE	1
26	PAFZZ	5305009836671	96906	MS16998-59	SCREW,CAP,SOCKET HE HEAD	8

END OF FIGURE

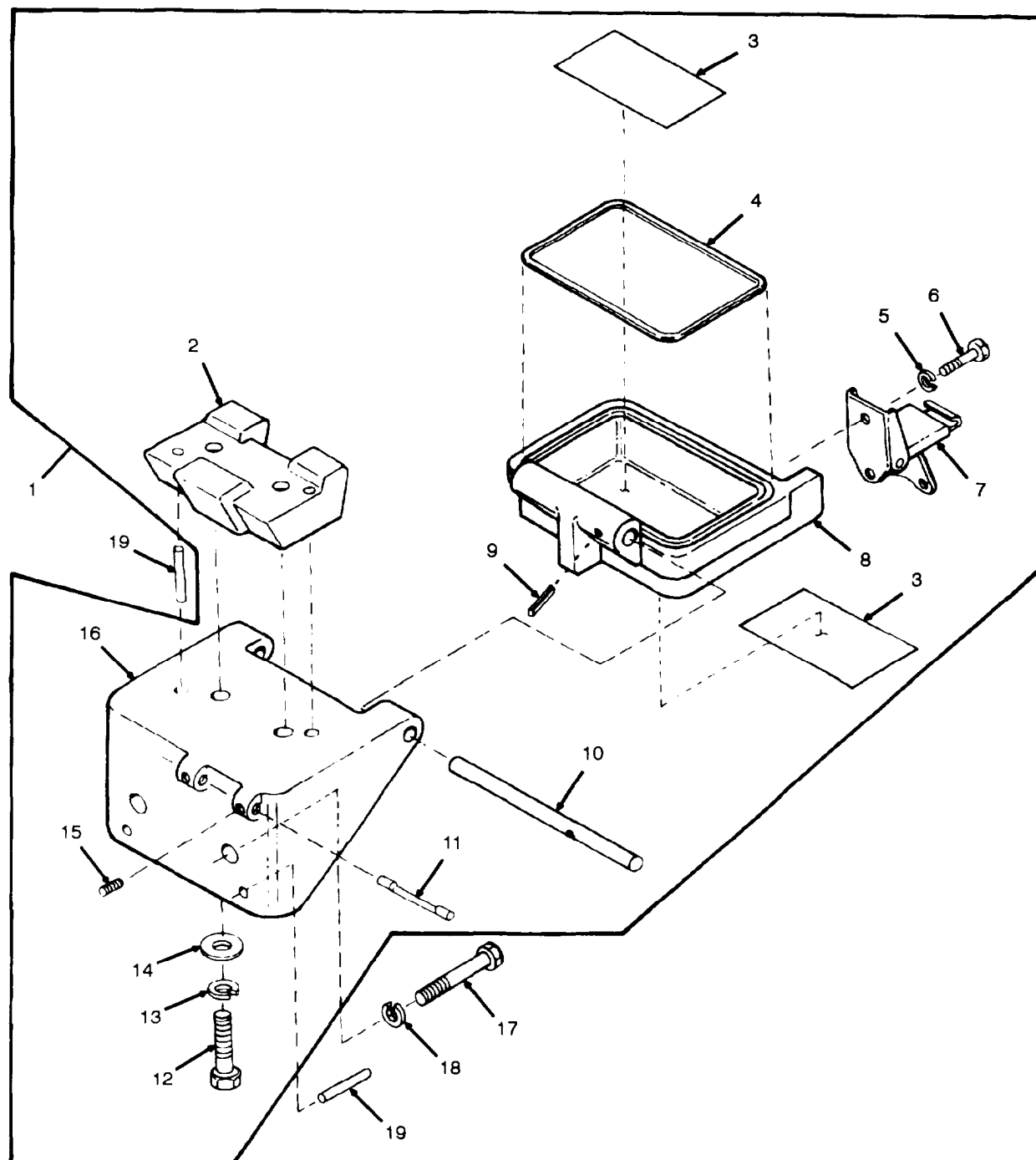


Figure 2. Mount, Alignment Device, M140, 11747246

SECTION II			TM9-2350-311-24P-2				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
ITEM	SMR			PART			
NO	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY	
GROUP 00 MOUNT, ALIGNMENT DEVICE, M140							
FIGURE 2 MOUNT, ALIGNMENT DEVICE, M140, 11747246							
1	PAHHH	1025010710633	19200	11747246	MOUNT,ALIGNMENT DEV DEVICE	2	
2	XAHZZ	2540011354609	19200	11747240	.WEDGE,DODR DOVETAIL	1	
3	PAOZZ	7690013215021	19207	11784950	.MARKER,IDENTIFICATI IDENTIFICATION	2	
4	PAOZZ	5331008758288	96906	MS29513-153	. O-RING	1	
5	PAOZZ	5310009338118	96906	MS35338-135	.WASHER,LOCK	2	
6	PAOZZ	5305000545649	96906	MS51957-15	.SCREW,MACHINE	2	
7	PAOZZ	5340004602585	19200	8643741	.CATCH,CLAMPING	1	
8	PAOZZ	5340011315056	19200	11747234	.COVER,ACCESS	1	
9	PAOZZ	5315008414442	96906	MS16562-224	.PIN,SPRING	2	
10	PAOZZ	5315010563017	19200	11747241	.PIN,STRAIGHT,HEADLE HEADLESS	1	
11	PAOZZ	5315010570012	19200	11747247	.PIN,ECCENTRIC	1	
12	PAHZZ	5305006876541	96906	MS35308-385	.SCREW,CAP,HEXAGDN H HEAD	2	
13	PAHZZ	5310009738786	96906	MS35338-142	.WASHER,LOCK	2	
14	PAHZZ	5310008094085	96906	MS27183-16	.WASHER,FLAT	2	
15	PAOZZ	5305010071517	96906	MS51021-112	. SETSCREW	2	
16	XAHZZ		19200	11747242	.BASE	1	
17	PAHZZ	5305007098523	80204	B1821BH044F125N	SCREW,CAP,HEXAGDN H HEAD	2	
18	PAHZZ	5310002090965	96906	MS35338-47	WASHER,LOCK	2	
19	PAHZZ	5315008091442	96906	MS16555-647	PIN,STRAIGHT,HEADLE HEADLESS	4	

END OF FIGURE

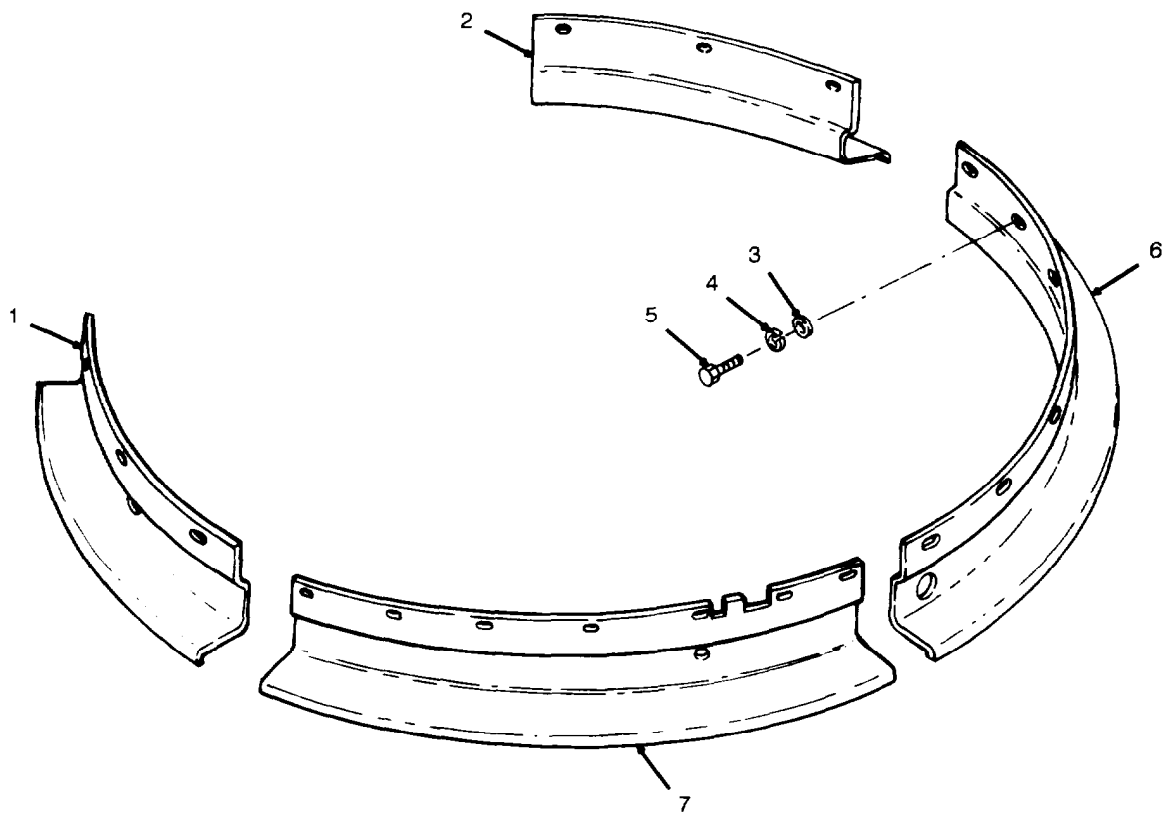


Figure 3. Cab Assembly, Shields

SECTION II			TM9-2350-311-24P-2			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SMR			PART		
NO	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 00 CAB ASSEMBLY, SHIELDS						
FIGURE 3 CAB ASSEMBLY, SHIELDS						
1	PAOZZ	3020010556085	19204	12010899	GUARD,MECHANICAL DR	1
2	PAOZZ	2520001210653	19207	10942306	SHIELD,TURRET BEARI BEARING(ALL	2
					VEHICLES WITH 5 CONTACT ARMS)	
2	PAOZZ	2520001210653	19207	10942306	SHIELD,TURRET BEARI	1
					BEARING(M109A3'S WITH 3 CONTACT	
					ARMS)	
					UOC:G78	
3	PAOFZZ	5310007554866	19207	10941915-1	WASHER,FLAT (ALL VEHICLES WITH 5	23
					C O N T A C T A R M S)	
3	PAOZZ	5310007554866	19207	10941915-1	WASHER,FLAT (M109A3'S WITH 3	20
					C O N T A C T A R M	
					UOC:G78	
4	PAOZZ	5310002748715	96906	MS35338-63	WASHER,LOCK (ALL VEHICLES WITH 5	23
					C O N T A C T A R M S)	
4	PAOZZ	5310002748715	96906	MS35338-63	WASHER,LOCK (M109A3'S WITH 3	20
					C O N T A C T A R M S)	
					UOC:G78	
5	PAOZZ	5305000687837	80204	B1821BH025C063N	SCREW,CAP,HEXAGON H (ALL VEHICLES	23
					WITH 5 CONTACT ARMS)	
5	PAOZZ	5305000687837	80204	B1821BH025C063N	SCREW,CAP,HEXAGON H HEAD(M109A3'S	20
					WITH 3 CONTACT ARMS)	
					UOC:G78	
6	PAOZZ	1025001094227	19204	10942307	SHIELD,RACE,TURRET	1
7	PAOZZ	1025001268964	19204	10942308	SHIELD,TURRET RACE	1
END OF FIGURE						

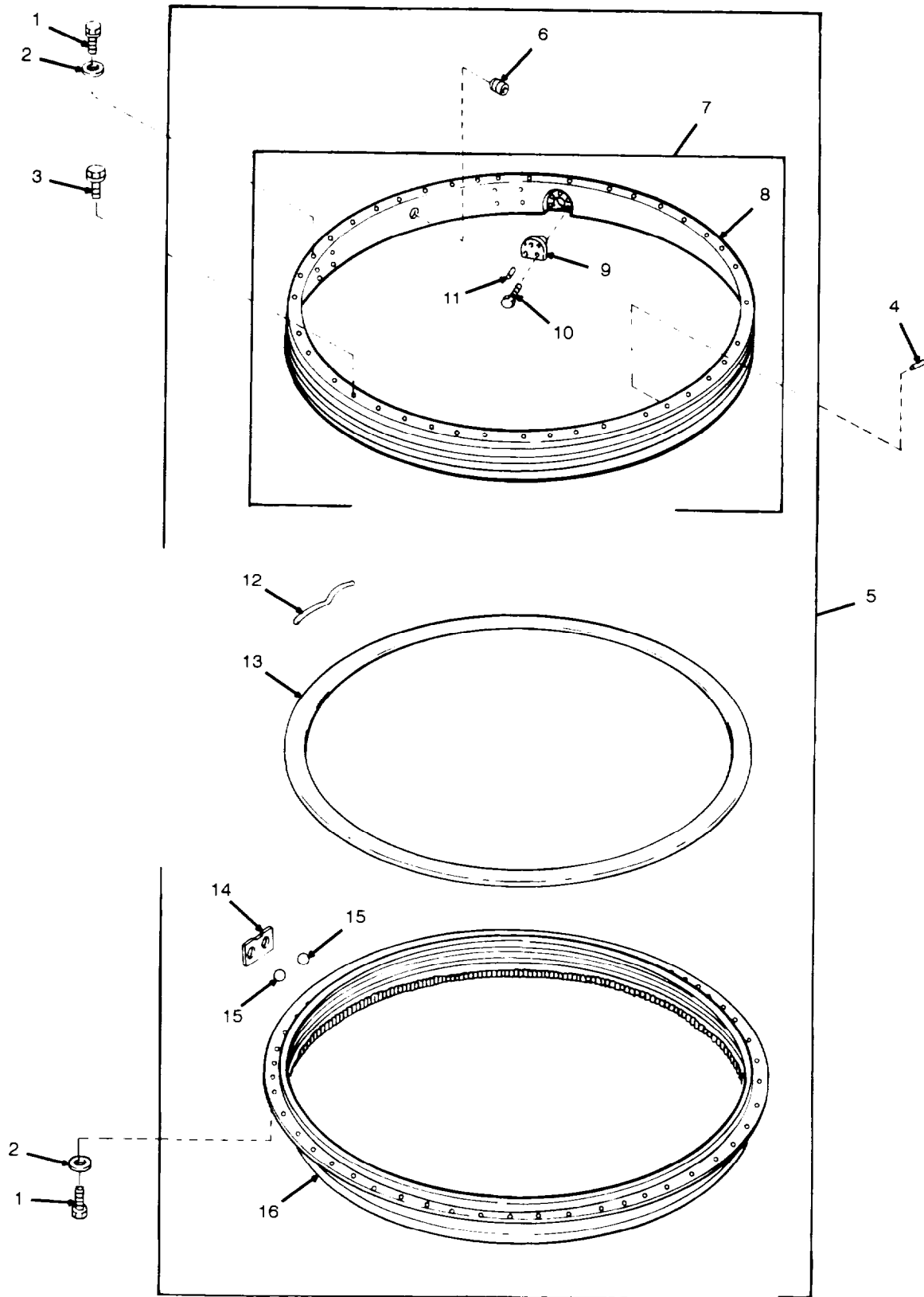


Figure 4. Bearing Assembly, 11665398 and Race Assembly, 11605061

SECTION II			TM9-2350-311-24P-2			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SMR			PART		
NO	CODE	NSN	CACEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 01 BEARING ASSEMBLY						
FIGURE 4 BEARING ASSEMBLY, 11665398 AND RACE ASSEMBLY, 11605061						
1	PAFZZ	5306008659498	96906	MS35764-1121	BOLT,SELF-LOCKING	75
2	PAOZZ	5310010950724	19207	10888410	WASHER,FLAT	75
3	PAFZZ	5306001829346	96906	MS35764-1123	BOLT,SELF-LOCKING	3
4	PAFZZ	5315010734061	19207	10888409	PIN LOCATING,RACE R	1
5	PAFDD	1025010649679	19207	11665398	RING ASSEMBLY,TURRE (ALL VEHICLES WITH 5 CONTACT ARMS)	1
6	PAFZZ	4730000189566	73342	444687	.PLUG,PIPE	3
7	XAFFF		19204	11605061	.RACE ASSY	1
8	XAFZZ		19204	11605060	. .RACE	1
9	PAOZZ	1025001339713	19204	10888055	..COVER,BALL TURRET R	1
10	PAOZZ	5305009210042	80204	B1821BH038F075D	..SCREW,CAP,HEXAGON H HEAD	3
11	PAOZZ	5315002826888	88044	AN122719	..PIN,STRAICHT,HEADLE HEADLESS	1
12	MOOZZ		96906	MS20995F41	.WIRE,NONELECTRICAL MAKE FROM NSN V 9505-00-684-4843	
13	PCFZZ	5330010637634	19207	11605055	.SEAL,NONMETALLIC SP	1
14	PAZZ	5365002694054	19207	11593529	.SPACER,RACE RING	106
15	PAFZZ	3110001882728	96906	MS19059-2442	.BALL,BEARING	212
16	XAFZZ		19204	11605062	. RACE	1
END OF FIGURE						