

INFANTRY T&R MANUAL

CHAPTER 5

INFANTRY MACHINE GUNNER

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**5001. MOS DESCRIPTION.** The machine gunner is responsible for the tactical employment of the 7.62mm medium machinegun, the 50 cal. and 40mm heavy machinegun, and their support vehicle. Machine gunners provide direct fire in support of the rifle squads/platoons/companies and the infantry battalions. They are located in the weapons platoons of the rifle companies and the weapons company of the infantry battalion. Noncommissioned officers are assigned as team leaders and squad/section leaders.

**5002. CAREER PROGRESSION.** Upon completion of Level A training at the Infantry Machine Gunner Course, Infantry Training Battalion, School of Infantry, the machine gunner will conduct Level 1 training on the 7.62mm medium machinegun, the 50 cal. or the 40mm heavy machinegun in an Infantry Battalion. Prior to selection to Sergeant or upon assuming the duties of squad/section leader, the machine gunner should attend Level B training at the Advanced Machine Gun Leaders Course, Advanced Infantry Training Company, School of Infantry. Once assigned as a squad/section leader, the machine gunner will conduct Level 2 training.

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APPENDIX A

BILLET CORE CAPABILITIES

**BILLET A: Ammunition Man, Machinegun Section, Weapons Platoon**

The Ammunition Man carries out the orders of the Gunner and unit leader. He is responsible for the condition, care, and economical use of his weapon and equipment. He is responsible for spotting rounds impact, making accurate corrections for the Gunner, and for changing barrels on the machinegun. He is responsible for security. His rank is a Private thru Lance Corporal. His T/O weapon is the M16A2 service rifle.

**Core Capabilities:**

1. Carries out the orders of the machinegun Team Leader.
2. Performs the tasks required of an Ammunition Man in a machinegun team of the machinegun section of a weapons platoon.
3. Performs operator maintenance for, and operates an M240G medium machinegun.
4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle.
5. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
6. Emplaces and recovers an M18A1 Claymore mine.
7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
9. Performs self-aid and buddy aid.
10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
12. Performs fire and movement as an individual and as a member of a machinegun team.
13. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
14. Repels an enemy assault by fire and close combat.

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**BILLET B: Gunner, Machinegun Section, Weapons Platoon**

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The Gunner carries out the orders of the Team Leader or unit leader. He is responsible for the condition, care, and economical use of his weapon and equipment. In combat, he is also responsible for the tactical employment, fire discipline, fire control, and the effective and accurate employment of the machinegun. His rank is a Sergeant. His T/O weapon is the 9mm pistol and M240G machinegun.

### Core Capabilities:

1. Carries out the orders of the machinegun Team Leader.
2. Performs the tasks required of a Gunner in a machinegun team of the machinegun section of a weapons platoon.
3. Performs operator maintenance for, and operates an M240G medium machinegun.
4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle and an M9 pistol.
5. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
6. Emplaces and recovers an M18A1 Claymore mine.
7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
9. Performs self-aid and buddy aid.
10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
12. Performs fire and movement as an individual and as a member of a machinegun team.
13. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
14. Repels an enemy assault by fire and close combat.

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### **BILLET C: Team Leader, Machinegun Section, Weapons Platoon**

The machinegun Team Leader carries out the orders of the Squad Leader or unit commander. He is responsible for the discipline, appearance, training, control, conduct, and welfare of his team at all times, as well as the condition, care, and economical use of its weapons and equipment. In combat, he is also responsible for the tactical employment, fire discipline, fire control, and is responsible for the effective employment of his machinegun team. His rank is a Corporal. His T/O weapon is the M16A2 service rifle.

### Core Capabilities:

1. Carries out the orders of the machinegun Section Leader.

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2. Performs the tasks required of a machinegun Team Leader in a machinegun section of a weapons platoon.
  3. Performs operator maintenance for, and operates an M240G medium machinegun.
  4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle.
  5. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
  6. Emplaces and recovers an M18A1 Claymore mine.
  7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
  8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
  9. Performs self-aid and buddy aid.
  10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
  11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
  12. Performs fire and movement as an individual and as a member of a machinegun team.
  13. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
  14. Repels an enemy assault by fire and close combat.
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### **BILLET D: Squad Leader, Machinegun Section, Weapons Platoon**

The machinegun Squad Leader carries out the orders of the Platoon Commander or the assigned unit leader. He is responsible for the discipline, appearance, training, control, conduct, and welfare of his squad at all times, as well as the condition, care, and economical use of its weapons and equipment. In combat, he is also responsible for the tactical employment, fire discipline, fire control, and effective employment of the machinegun squad. His rank is a Sergeant. His T/O weapon is the M16A2 service rifle.

#### **Core Capabilities:**

1. Carries out the orders of the machinegun Section Leader.
2. Performs the tasks required of a Squad Leader in a machinegun section of a weapons platoon.
3. Performs operator maintenance for, and operates an M240G medium machinegun.
4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle.
5. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
6. Emplaces and recovers a M18A1 Claymore mine.

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7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
9. Performs self-aid and buddy aid.
10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
12. Controls the fire and movement of his machinegun squad.
13. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
14. Repels an enemy assault by fire and close combat.

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### **BILLET E: Ammunition Man/Driver, Heavy Machinegun Platoon, Weapons Company**

The Ammunition Man/Driver prepares the ammunition and passes it to the Assistant Gunner, provides local security for the machinegun position (ground or vehicle mounted), fills sandbags, and performs other duties as the Squad Leader directs. He is also the squad truck driver and responsible for preventive maintenance and repairs on the vehicle. When his duties do not require him to be with the vehicle, he is used as an ammunition bearer. His rank is Private thru Lance Corporal and his T/O weapon is the M16A2 service rifle.

#### **Core Capabilities:**

1. Carries out the orders of the machinegun Squad Leader.
2. Performs the tasks required of an Ammunition Man and Driver in a machinegun squad of the heavy machinegun platoon of a weapons company.
3. Performs operator maintenance for, and operates an M2 heavy machinegun and a MK19 heavy machinegun.
4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle.
5. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
6. Emplaces and recovers an M18A1 Claymore mine.
7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
9. Performs self-aid and buddy aid.
10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.

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11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
  12. Performs operator maintenance for, and operates an M1043/44 hardback HMMWV.
  13. Performs fire and movement as an individual and as a member of a heavy machinegun squad.
  14. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
  15. Repels an enemy assault by fire and close combat.
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### **BILLET F: Assistant Gunner, Heavy Machinegun, Weapons Company**

The heavy machinegun Assistant Gunner carries out the orders of the Gunner or Squad Leader. He is responsible for spotting rounds impact, making accurate corrections for the Gunner, and for changing barrels on the machinegun (M2). He is responsible for security. His rank is a Lance Corporal. His T/O weapon is the 9mm pistol.

#### **Core Capabilities:**

1. Carries out the orders of the machinegun Squad Leader.
2. Performs the tasks required of an Assistant Gunner in a machinegun squad of the heavy machinegun platoon of a weapons company.
3. Performs operator maintenance for, and operates an M240G medium machinegun.
4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle and a M9 pistol.
5. Engages targets with an M136 light anti-armor weapon and a M67 hand grenade.
6. Emplaces and recovers an M18A1 Claymore mine.
7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
9. Performs self-aid and buddy aid.
10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
12. Performs operator maintenance for, and operates an M1043/44 hardback HMMWV.
13. Performs fire and movement as an individual and as a member of a heavy machinegun squad.
14. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.

15. Repels an enemy assault by fire and close combat.
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**BILLET G: Gunner, Heavy Machinegun Platoon, Weapons Company**

The heavy machinegun Gunner carries out the orders of the Squad Leader or assigned unit commander. He is responsible for the condition, care, and economical use of his weapons (M2 .50 cal and MK19 40mm machineguns) and equipment. In combat, he is also responsible for the tactical employment, fire discipline, fire control, and effective employment of his machinegun as an attachment to other units, ground or vehicle mounted. He must also ensure his Assistant Gunner is trained effectively with both weapons. His rank is a Lance Corporal. His T/O weapon is the 9mm pistol.

**Core Capabilities:**

1. Carries out the orders of the machinegun Squad Leader.
  2. Performs the tasks required of a Gunner in a machinegun squad of the heavy machinegun platoon of a weapons company.
  3. Performs operator maintenance for, and operates an M2 heavy machinegun, and a MK19 heavy machinegun.
  4. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle and an M9 pistol.
  5. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
  6. Emplaces and recovers an M18A1 Claymore mine.
  7. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
  8. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
  9. Performs self-aid and buddy aid.
  10. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
  11. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
  12. Performs operator maintenance for, and operates an M1043/44 hardback HMMWV.
  13. Performs fire and movement as an individual and as a member of a heavy machinegun squad.
  14. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
  15. Repels an enemy assault by fire and close combat.
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**BILLET H: Squad Leader, Heavy Machinegun Platoon, Weapons Company**

The heavy machinegun Squad Leader carries out the orders of the Section Leader or assigned unit commander. He is responsible for his squad at all times, as well as the condition, care, and economical use of its

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weapons (M2 .50 cal and MK19 40mm machineguns), vehicles, and equipment. In combat, he is also responsible for the tactical employment, fire discipline, fire control, and effective employment of his machinegun squad as attachments to other units, ground or vehicle mounted. His rank is a Corporal. His T/O weapon is the M16A2 service rifle.

### **Core Capabilities:**

1. Carries out the orders of the heavy machinegun Section Leader.
2. Performs the tasks required of a Squad Leader in a heavy machinegun platoon of a weapons company.
3. Maintains the condition, care, and economical use of assigned personnel, weapons, and equipment.
4. Performs operator maintenance for, and operates an M2 heavy machinegun, and a MK19 heavy machinegun.
5. Performs operator maintenance for, and is a proficient marksman with the M16A2 service rifle.
6. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
7. Emplaces and recovers an M18A1 Claymore mine.
8. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
9. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
10. Performs self-aid and buddy aid.
11. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
12. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
13. Performs operator maintenance for, and operates an M1043/44 hardback HMMWV.
14. Controls the fire and movement of his heavy machinegun squad.
15. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
16. Repels an enemy assault by fire and close combat.

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### **BILLET I: Section Leader, Heavy Machinegun Platoon, Weapons Company**

The heavy machinegun Section Leader carries out the orders of the Platoon Commander or assigned unit commander. He is responsible for his section at all times, as well as the condition, care, and economical use of its weapons (M2 .50 cal and MK19 40mm machineguns), vehicles, and equipment. In combat, he is also responsible for the tactical employment, fire discipline, fire control, and employment of his machinegun section as attachments to other units, ground or vehicle mounted. His rank is a Sergeant. His T/O weapon is the M16A2 service rifle.

**Core Capabilities:**

1. Carries out the orders of the heavy machinegun Platoon Commander.
  2. Performs the tasks required of a Section Leader in a heavy machinegun platoon.
  3. Maintains the discipline, appearance, control, conduct, and welfare of his section.
  4. Trains his section in the performance of tasks which support platoon training objectives.
  5. Maintains the condition, care, and economical use of assigned weapons and equipment.
  6. Performs operator maintenance for, and operates an M2 heavy machinegun, and a MK19 heavy machinegun.
  7. Performs operator maintenance for, and is a proficient marksman with an M16A2 service rifle.
  8. Engages targets with an M136 light anti-armor weapon and an M67 hand grenade.
  9. Emplaces and recovers an M18A1 Claymore mine.
  10. Utilizes grenades and pyrotechnics for signaling, illumination, and screening.
  11. Determines current location and traverses designated points using a topographic map, lensatic compass, and protractor.
  12. Performs self-aid and buddy aid.
  13. Performs individual protective measures to counteract the effects of nuclear, biological, and chemical contamination.
  14. Communicates using proper communications procedures with a TA-1 field telephone, a TA-312 field telephone, and an AN/PRC-119 field radio in single channel mode.
  15. Performs operator maintenance for, and operates an M1043/44 hardback HMMWV.
  16. Controls the fire and movement of his heavy machinegun section.
  17. Locates, closes with, suppresses, and destroys the enemy by fire and maneuver.
  18. Repels an enemy assault by fire and close combat.
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APPENDIX B

BILLET EVENT MATRIX (A-J)

<u>Code</u>	<u>Billet</u>
A	Ammunition Man, Machinegun Section, Weapons Platoon
B	Gunner, Machinegun Section, Weapons Platoon
C	Team Leader, Machinegun Section, Weapons Platoon
D	Squad Leader, Machinegun Section, Weapons Platoon
E	Ammunition Man/Driver, Heavy Machinegun Platoon, Weapons Company
F	Assistant Gunner, Heavy Machinegun, Weapons Company
G	Gunner, Heavy Machinegun Platoon, Weapons Company
H	Squad Leader, Heavy Machinegun Platoon, Weapons Company
I	Section Leader, Heavy Machinegun Platoon, Weapons Company

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Event Code	A	B	C	D	E	F	G	H	I	J
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**Level: 1**

0331 - 1 - 001	Perform operator maintenance for an M9 pistol									
	0.962					0.962	0.84			
	3					3	3			

0331 - 1 - 002	Load an M9 pistol									
	0.962					0.962	0.84			
	3					3	3			

0331 - 1 - 003	Engage targets with an M9 pistol									
	0.962					0.962	0.84			
	3					3	3			

0331 - 1 - 004	Perform immediate action for an M9 pistol									
	0.962					0.962	0.84			
	3					3	3			

0331 - 1 - 005	Reload an M9 pistol									
	0.962					0.962	0.84			
	3					3	3			

0331 - 1 - 006	Unload an M9 pistol									
	0.962					0.962	0.84			
	3					3	3			

0331 - 1 - 013	Perform operator maintenance for an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	

0331 - 1 - 014	Load an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	

0331 - 1 - 015	Field expedient zero an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	

0331 - 1 - 016	Engage targets with an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	

0331 - 1 - 017	Engage immediate threat targets with an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 018	Engage targets with an M16A2 service rifle wearing a field protective mask									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	
0331 - 1 - 019	Perform immediate action for an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	
0331 - 1 - 020	Perform remedial action for an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	
0331 - 1 - 021	Combat reload an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	
0331 - 1 - 022	Clear an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	
0331 - 1 - 073	Select a machinegun firing position									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 1 - 075	Prepare a machinegun range card									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 1 - 076	Direct the acquisition of machinegun targets									
			0.833	0.847				0.694	0.694	
			3	3				3	3	
0331 - 1 - 077	Issue a machinegun fire command									
			0.833	0.847				0.694	0.694	
			3	3				3	3	
0331 - 1 - 079	Lay a machinegun utilizing a M-2 compass									
			0.833	0.847				0.694	0.694	
			3	3				3	3	
0331 - 1 - 080	Set the elevation of a machinegun utilizing the M1A2 gunner's quadrant									
		0.962					0.84			
		3					3			
0331 - 1 - 085	Perform operator maintenance for an M240G medium machinegun									
		0.962	0.833	0.847						
		3	3	3						

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 086	Mount an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 087	Load an M240G medium machinegun with the cover open									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 088	Load an M240G medium machinegun with the cover closed									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 089	Change a barrel for an M240G medium machinegun									
	1.25	0.962	0.833	0.847						
	3	3	3	3						
0331 - 1 - 090	Perform immediate action for an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 091	Perform immediate action for a runaway M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 092	Perform remedial action for a stuck cartridge in an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 093	Perform remedial action for a ruptured cartridge in an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 094	Perform remedial action for sluggish operation of an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 095	Clear an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 096	Operate the M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 097	(Table I) Execute ten-meter bipod firing exercise with the M240G medium machinegun									
	0.962	0.833								
	3	3								
0331 - 1 - 098	(Table II) Execute a ten-meter tripod firing exercise with the M240G medium machinegun									
	0.962	0.833								
	3	3								
0331 - 1 - 099	Prepare an AN/PVS-4 for operation with an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 100	Perform operator maintenance on SL-3 gear for an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 101	Inspect an M240G medium machinegun									
	0.962	0.833	0.847							
	3	3	3							
0331 - 1 - 104	Perform operator maintenance for an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 105	Set the headspace and timing for an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 106	Ground mount an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 107	Vehicle mount an M2 heavy machinegun to an M-1043/44 hardback HMMWV									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 108	Load an M2 heavy machinegun with the cover open									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 109	Load an M2 heavy machinegun with the cover closed									
						0.962	0.84	0.694	0.694	
						3	3	3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 110	Operate an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 111	(Table I) Execute ten meter tripod firing exercise with the M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 112	Unload an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 113	Clear an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 114	Perform immediate action for an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 115	Perform immediate action for a runaway M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 116	Perform remedial action for an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 117	Perform remedial action for sluggish operation of an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 118	Perform remedial action for stuck cartridge in an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 119	Perform remedial action for a ruptured cartridge in an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 120	Prepare an AN/TVS-5 for operation with an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	

INFANTRY T&R MANUAL

Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 122	Perform operator maintenance for SL-3 gear for an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 123	Perform operator maintenance for SL-3 gear for a MK19 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 124	Perform operator maintenance on a MK19 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 125	Ground mount a MK19 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 126	Vehicle mount a MK19 heavy machinegun to an M-1043/44 hardback HMMWV									
						0.962	0.84	0.694	0.694	
						3	3	3	3	
0331 - 1 - 127	Load a MK19 heavy machinegun									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 128	Operate a MK19 heavy machinegun									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 130	Unload a MK19 heavy machinegun									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 131	Clear a MK19 heavy machinegun									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 132	Perform immediate action for a MK19 heavy machinegun with a failure to fire									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 133	Perform immediate action for a runaway MK19 heavy machinegun									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 134	Perform remedial action for a MK19 heavy machinegun									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	

INFANTRY T&R MANUAL

Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 135	Perform remedial action for a MK19 heavy machinegun with jammed bolt									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 136	Perform remedial action for a MK19 heavy machinegun with bore obstruction									
					1.01	0.962	0.84	0.694	0.694	
					3	3	3	3	3	
0331 - 1 - 291	Probe for a mine									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 292	Negotiate a wire obstacle by crossing over									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	6	6	6	6	6	6	6	6	6	
0331 - 1 - 293	Negotiate a wire obstacle by crossing under									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	6	6	6	6	6	6	6	6	6	
0331 - 1 - 294	Negotiate a wire obstacle by cutting									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	6	6	6	6	6	6	6	6	6	
0331 - 1 - 300	Perform operator maintenance on a AN/PVS-4 individual weapons night sight or AN/TVS-5 crew served weapon night sight									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 301	Perform operator maintenance on a AN/PVS-7 night vision goggles									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 302	Operate AN/PVS-7 night vision goggles									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 332	Identify armored vehicles									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 333	Challenge personnel entering an area									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 334	React to a ground flare									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 335	React to an overhead flare									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 338	Perform creeping									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 339	Perform night walk									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 340	Move across an open area									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 341	Select a hasty firing position									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 1 - 343	Execute unarmed close combat									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 344	Execute armed close combat									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 350	Move parallel to a building									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 351	Move past a first floor window									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 352	Move past a basement window									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 353	Cross a wall									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 355	Observe around a corner									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 361	Determine the grid coordinates of a point on a map									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 362	Determine a grid azimuth using a protractor									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 363	Convert a magnetic azimuth to a grid azimuth									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 364	Convert a grid azimuth to a magnetic azimuth									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 365	Orient a map with a compass									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 366	Measure distance on a map									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 367	Determine the error in a lensatic compass									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 368	Orient a map by terrain association									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 369	Determine a back azimuth									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 370	Pre-set a lensatic compass and follow an azimuth during daylight									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 371	Pre-set a lensatic compass and follow an azimuth during darkness									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 372	Locate an unknown point by intersection									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 373	Locate an unknown position by modified resection									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 374	Locate an unknown position by resection									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 380	Select a route utilizing a topographic map									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 1 - 381	Construct a map overlay									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 382	Estimate range									
		0.962	0.833	0.847			0.84	0.694	0.694	
		6	6	6			6	6	6	
0331 - 1 - 418	Communicate using hand and arm signals									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 419	Communicate using a TA-1 field telephone									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 420	Communicate using a TA-312 field telephone									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 423	Communicate using a AN/PRC-119 field radio in single channel mode									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 425	Waterproof communication gear									
			0.833	0.847				0.694	0.694	
			3	3				3	3	
0331 - 1 - 431	Report information									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 438	Evaluate a casualty									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 440	Perform rescue breathing									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 441	Perform Cardiopulmonary Resuscitation (CPR)									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 442	Apply a pressure dressing									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 443	Apply a tourniquet									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 444	Perform first aid for a head wound									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 445	Perform first aid for a chest wound									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 446	Perform first aid for an abdominal wound									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 447	Perform first aid for a burn									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 448	Splint a fracture									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 449	Perform first aid for heatstroke									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 450	Perform first aid for frostbite									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 451	Perform first aid for a snakebite									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 452	Perform a one-man fireman carry									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 458	Perform operator maintenance for an M40 field protective mask with hood									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 459	Don an M40 field protective mask with hood									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 460	Drink from a canteen while wearing an M40 field protective mask with hood									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 461	Don personal protective equipment to MOPP Level 4									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 462	Perform individual decontamination									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 463	Perform self-aid for a nerve agent									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 464	React to a nuclear attack without warning									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 1 - 471	Operate a High Mobility Multipurpose Wheeled Vehicle (HMMWV)									
					1.01			0.694	0.694	
					3			3	3	
0331 - 1 - 472	Perform operator maintenance for a M-1045/46 High Mobility Multipurpose Wheeled Vehicle (HMMWV)									
					1.01			0.694	0.694	
					3			3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 1 - 473	Inspect a High Mobility Multipurpose Wheeled Vehicle (HMMWV)									
					1.01			0.694	0.694	
					3			3	3	
0331 - 1 - 496	Conduct a debrief									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	6	6	6	6	6	6	6	6	6	

INFANTRY T&R MANUAL

Event Code	A	B	C	D	E	F	G	H	I	J
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Level: 2

0331 - 2 - 007	Inspect an M9 Service Pistol									
	0.962	0.833	0.847			0.962	0.84	0.694	0.694	
	3	3	3			3	3	3	3	

0331 - 2 - 025	Inspect an M16A2 service rifle									
	1.25		0.833	0.847	1.01			0.694	0.694	
	3		3	3	3			3	3	

0331 - 2 - 074	Inspect a machinegun firing position									
	0.962	0.833	0.847				0.84	0.694	0.694	
	3	3	3				3	3	3	

0331 - 2 - 078	Issue a fire command to a machinegun section									
		0.833	0.847					0.694	0.694	
		3	3					3	3	

0331 - 2 - 081	Advise commander(s) on the employment of machineguns									
	0.962	0.833	0.847							
	6	6	6							

0331 - 2 - 121	Inspect an M2 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	

0331 - 2 - 137	Inspect a MK19 heavy machinegun									
						0.962	0.84	0.694	0.694	
						3	3	3	3	

0331 - 2 - 305	Inspect optics									
		0.833	0.847					0.694	0.694	
		3	3					3	3	

0331 - 2 - 315	Write a five paragraph order									
		0.833	0.847					0.694	0.694	
		6	6					6	6	

0331 - 2 - 318	Issue an order									
		0.833	0.847					0.694	0.694	
		3	3					3	3	

0331 - 2 - 345	Direct the handling of known or suspected enemy personnel									
		0.833	0.847					0.694	0.694	
		6	6					6	6	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 2 - 376	Navigate using relief sketch									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	9	9	9	9	9	9	9	9	9	
0331 - 2 - 377	Navigate using the Global Positioning System (GPS)									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 2 - 378	Navigate using the AN/PSN-11 Precision Lightweight GPS Receiver (PLGR)									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 2 - 379	Transmit a Position Report (PosRep)									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 2 - 388	Call for indirect fire using the grid method									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 2 - 389	Call for indirect fire using the polar method									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 2 - 390	Call for indirect fire using the shift from a known point method									
		0.962	0.833	0.847			0.84	0.694	0.694	
		3	3	3			3	3	3	
0331 - 2 - 421	Assemble a radio set									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 2 - 422	Maintain radio sets									
	1.25	0.962	0.833	0.847	1.01	0.962	0.84	0.694	0.694	
	3	3	3	3	3	3	3	3	3	
0331 - 2 - 424	Communicate using a AN/PRC-119 field radio in frequency hopping mode									
			0.833	0.847				0.694	0.694	
			3	3				3	3	
0331 - 2 - 433	Construct a field expedient antenna									
			0.833	0.847				0.694	0.694	
			3	3				3	3	
0331 - 2 - 439	Transmit a Casualty Report (CasRep)									
			0.833	0.847				0.694	0.694	
			3	3				3	3	

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Event Code	A	B	C	D	E	F	G	H	I	J
0331 - 2 - 500	Lead a unit in preparations for combat									
					1.01			0.694	0.694	
					3			3	3	
0331 - 2 - 502	Lead a unit in crossing a danger area									
					1.01			0.694	0.694	
					3			3	3	
0331 - 2 - 511	Lead a unit in a passage of lines as moving unit									
					1.01			0.694	0.694	
					6			6	6	
0331 - 2 - 520	Direct the employment of medium machineguns in offensive operations									
					1.01					
					3					
0331 - 2 - 526	Lead a unit in defensive operations									
					1.01			0.694	0.694	
					6			6	6	
0331 - 2 - 527	Direct the employment of medium machineguns in support of defensive operations									
					1.01					
					3					
0331 - 2 - 531	Lead a unit in consolidation									
					1.01			0.694	0.694	
					6			6	6	
0331 - 2 - 542	Compile information to prepare SITREP and other required reports									
					1.01			0.694	0.694	
					3			3	3	

INFANTRY T&R MANUAL

CHAPTER 5

0331 MACHINE GUNNER

APPENDIX C

LEVEL 1 TRAINING

**Purpose:**

The purpose of the Level 1 training is provide the knowledge and skills required to perform as an Ammunition Man, Gunner and Machinegun Team Leader, Machinegun Section, Weapons Platoon and Ammunition Man/Driver, Assistant Gunner, Gunner, and Section Leader, Heavy Machinegun Platoon, Weapons Company.

**Administrative Notes:**

None.

**Prerequisites:**

The Marine will have completed the Infantry Machine Gunners Course.

**EVENT: 0331 - 1 - 001**

Perform operator maintenance for an M9 pistol

**Condition:** Given an M9 pistol, cleaning gear, and lubricant.

**Standard:** In accordance with TM 1005A-10/1.

**PERFORMANCE STEPS**

1. Clear the pistol by placing it in Condition 4.
2. Return the slide fully forward.
3. Hold the pistol in the right hand with the muzzle slightly elevated, with the forefinger press disassembly lever release button and with the thumb rotate the disassembly lever downward until it stops.
4. Pull the slide and barrel assembly forward and remove.
5. Compress the recoil spring and spring guide, while at the same time lifting and removing the recoil spring and spring guide.
6. Separate the recoil spring from the spring guide.
7. Push in on the locking block plunger while pushing the barrel forward. Lift and remove the locking block and barrel assembly from the slide.
8. Grasp the magazine firmly with the floor plate up and the back of the magazine tube against the palm of the hand.
9. Release the floor plate by pushing down on the floor plate retainer stud in the center of the floor plate, while at the same time sliding the floor plate forward for a short distance using the thumb.
10. While maintaining the magazine spring pressure with the thumb, remove the floor plate from the magazine.
11. Remove the floor plate retainer and magazine spring and follower from the magazine tube.
12. Remove floor plate retainer from the magazine spring.
13. Inspect slide assembly for free movement of decocking/safety lever.
14. Ensure rear sight is not loose.
15. Check for cracks in locking block retaining slot.
16. Inspect bore and chamber for pitting or obstructions.
17. Check locking block plunger for free movement of locking block.
18. Inspect locking lugs and barrel lugs for cracks and burrs.
19. Inspect recoil spring for damage.
20. Inspect recoil spring guide for straightness and smoothness.
21. Ensure recoil spring guide is free of cracks and burrs.
22. Inspect receiver assembly for bends, chips and cracks.
23. Check slide stop for free movement.
24. Magazine catch assembly for free movement.
25. Check guide rails for excessive wear, burrs, cracks or chips.
26. Check magazine spring and follower for damage.
27. Inspect the lips of the magazine for cracks, burrs, dents, and bends.

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28. Remove excess dirt from the magazine.
29. Clean the slide assembly with a cloth. For excessive dirt or carbon buildup, use a soft brush and CLP.
30. Ensure the decocking/safety lever, breech face, slide guides, and extractor are free of excess dirt and residue.
31. Wipe slide assembly dry with a cloth and apply a light coat of CLP.
32. Using a cleaning rod, insert a cleaning patch soaked with CLP into the chamber end of the barrel and push out the muzzle to remove residue and carbon deposits.
33. Repeatedly insert a bore brush into the chamber end of the barrel, making sure it completely clears the muzzle before it is pulled back through the bore.
34. Wipe loose carbon deposits from bore with a clean patch soaked with CLP.
35. Dry the barrel by repeatedly pushing a swab through the bore.
36. Clean the locking block with a soft brush.
37. Apply a light coat of CLP to the barrel bore and chamber area.
38. Lubricate the exterior surfaces of the barrel and locking block.
39. Clean the recoil spring and recoil spring guide using CLP and a soft brush or cloth.
40. Apply a light coat of CLP to the recoil spring and recoil spring guide.
41. Wipe the receiver assembly clean with a cloth and then apply a light coat of CLP.
42. Clean the magazine tube and follower with CLP and a cloth.
43. Clean the magazine spring, floor plate retainer, and floor plate with a cloth and then apply a light coat of CLP.
44. Grasp the slide with the bottom facing up and with the other hand grasp the barrel assembly with the locking block facing up.
45. Insert the muzzle of the barrel assembly into the forward open end of the slide, while at the same time lowering the rear of the barrel assembly by aligning the extractor cutout with the extractor.
46. Insert the recoil spring onto the recoil spring guide.
47. Insert the end of the recoil spring and recoil spring guide into the slide recoil spring housing, while at the same time compressing the recoil spring and lower the spring guide until fully seated onto the locking block cutaway.
48. Grasp the slide and barrel assembly, sights up, and align the slide onto the receiver assembly guide rails.
49. Push until the rear of the slide is a short distance beyond the rear of the receiver assembly and hold. At the same time, rotate the disassembly latch lever upward.
50. Insert the follower into the top coil of the magazine spring.
51. Insert the magazine spring with follower into the magazine tube.
52. Turn the magazine bottom up with the back side against the palm of the hand.
53. Attach and center the floor plate retainer to the bottom spring coil.

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54. Push and hold the magazine spring and floor plate retainer down, while at the same time sliding the floor plate over the side walls until fully seated.
55. Insert the magazine into the magazine well of the pistol.
56. Depress the slide stop and ensure the slide goes home.
57. Retract the slide and release it. Ensure the magazine follower should push up on the slide stop, locking the slide to the rear.
58. Depress the magazine release button allowing the magazine to fall free.
59. Ensure the decocking/safety lever is in the SAFE position. Depress the slide stop allowing the slide to return fully forward and ensure the hammer falls to the full forward position.
60. Squeeze and release the trigger. Ensure the firing pin block moves up and down and that the hammer does not move.
61. Place the decocking/safety lever in the fire position.
62. Squeeze the trigger and ensure the hammer cocks and falls.
63. Squeeze trigger and hold to the rear. Manually retract and release the slide while holding the trigger to the rear. Release the trigger. A click will be heard and the hammer does not fall.
64. Squeeze the trigger and the hammer will fall.

### REFERENCES

1. TM 1005A-10/1 Pistol, Semiautomatic, 9mm, M9
- 

### **EVENT: 0331 - 1 - 002**

Load an M9 pistol

**Condition:** Given an M9 pistol, ammunition, while wearing a fighting load.

**Standard:** By preparing the weapon for firing.

### PERFORMANCE STEPS

1. Ensure the pistol is in Condition 4.
2. Withdraw the magazine from the ammunition pocket.
3. Ensure the magazine is filled.
4. Fully insert the magazine into the magazine well.
5. Cant the pistol upward, facing in a safe direction.
6. Pull the slide fully to the rear and release.

### EXTERNAL SUPPORT

1. Pistol Range (if live ammunition is used)

### WEAPON AND AMMUNITION

**Weapon:** M9 9mm pistol

DODIC

A363 CTG, 9mm, BALL

Quantity

15 each

Expenditure of ammunition is not required.

**REFERENCES**

1. FMFM 0-8 Basic Marksmanship
- 

**EVENT: 0331 - 1 - 003**

Engage targets with an M9 pistol

**Condition:** Given an M9 pistol, 23 rounds of ammunition, and stationary targets from 3 to 25 yards, while wearing a fighting load.

**Standard:** To achieve 70% hits on target.

**PREREQUISITES**

0331 - 1 - 002

**PERFORMANCE STEPS**

1. From the holster, with a magazine of 8 rounds, fire 2 rounds from the standing to a covered prone position at center mass of an E-silhouette from the 25-yard line in a time limit of 8 seconds, make a Condition 1 weapon and reholster.
2. From the holster, fire 2 rounds from the standing to a covered prone position at center mass of an E-silhouette from the 25-yard line in a time limit of 8 seconds, make a Condition 1 weapon and reholster.
3. From the holster, fire 2 rounds from the standing to a covered kneeling position, strong side, at center mass of an E-silhouette from the 15-yard line in a time limit of 6 seconds, make a Condition 1 weapon and reholster.
4. From the holster, fire 2 rounds from the standing to a covered kneeling position, weak side, at center mass of an E-silhouette from the 15-yard line in a time limit of 6.5 seconds, make a Condition 1 weapon and reholster.
5. From the holster, with a magazine of 7 rounds, fire 2 rounds, 4 times, from the standing position at center mass of an E-silhouette from the 10-yard line in a time limit of 3.5 seconds per drill. Combat reload with a magazine of 8 rounds after the 6th shot, fire the remaining 2 rounds, make a Condition 1 weapon and reholster.
6. From the holster, fire 3 rounds from the standing position, 2 rounds at center mass and 1 round at the head of an E-silhouette from the 10-yard line in a time limit of 6 seconds, make a Condition 1 weapon and reholster.
7. From the holster, fire 2 rounds using the double tap technique from the standing position at center mass of an E-silhouette from the 7-yard line in a time limit of 3 seconds, make a Condition 1 weapon and reholster.
8. From the holster, fire 2 rounds using the hammer technique from the standing position at center mass of an E-silhouette from the 3-yard line in a time limit of 2.5 seconds, make a Condition 4 weapon and reholster.

**EXTERNAL SUPPORT**

1. Pistol Range

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**WEAPON AND AMMUNITION**

<b>Weapon:</b> M9	9mm pistol	
<u>DODIC</u>		<u>Quantity</u>
A363	CTG, 9mm, BALL	23 each

**RELATED ITS**

002

**REFERENCES**

1. FMFM 0-8 Basic Marksmanship
- 

**EVENT: 0331 - 1 - 004**

Perform immediate action for an M9 pistol

**Condition:** Given an M9 pistol, ammunition, while wearing a fighting load.

**Standard:** By returning the weapon into action.

**PERFORMANCE STEPS**

1. Tap the bottom of the magazine to ensure it is seated.
2. Rack the slide to the rear and release.
3. Aim the pistol and fire.

**EXTERNAL SUPPORT**

1. Pistol Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M9	9mm pistol	
<u>DODIC</u>		<u>Quantity</u>
A363	CTG, 9mm, BALL	2 each

Expenditure of ammunition is not required.

**RELATED ITS**

003

**REFERENCES**

1. FMFM 0-8 Basic Marksmanship
- 

**EVENT: 0331 - 1 - 005**

Reload an M9 pistol

**Condition:** Given an M9 pistol, ammunition, while wearing a fighting load.

**Standard:** To return the weapon to firing condition.

**PREREQUISITES**

0331 - 1 - 002

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**PERFORMANCE STEPS**

1. Press the magazine release button.
2. Remove the empty magazine from the pistol and retain it.
3. Insert a full magazine into the pistol until it is fully seated.
4. Pull the slide fully to the rear and release or press down on the slide stop to allow the slide to move forward.

**EXTERNAL SUPPORT**

1. Pistol Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M9	9mm pistol	
	<u>DODIC</u>		<u>Quantity</u>
	A363	CTG, 9mm, BALL	15 each

Expenditure of ammunition is not required.

**RELATED ITS**

002

**REFERENCES**

1. FMFM 0-8 Basic Marksmanship
- 

**EVENT: 0331 - 1 - 006**

Unload an M9 pistol

**Condition:** Given an M9 pistol, ammunition, while wearing a fighting load.

**Standard:** To place the weapon in condition 4.

**PREREQUISITES**

0331 - 1 - 002

**PERFORMANCE STEPS**

1. Place the decocking/safety lever in the SAFE position.
2. Remove the magazine from the pistol and retain it.
3. Pull the slide to the rear.
4. Visually and physically inspect the chamber, ensuring the chamber is empty and no ammunition is present.
5. Release the slide allowing it to go forward on an empty chamber.

**EXTERNAL SUPPORT**

1. Pistol Range (if live ammunition is used)

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**WEAPON AND AMMUNITION**

<b>Weapon:</b> M9	9mm pistol	
<u>DODIC</u>		<u>Quantity</u>
A363	CTG, 9mm, BALL	15 each

Expenditure of ammunition is not required.

**RELATED ITS**

002

**REFERENCES**

1. FMFM 0-8 Basic Marksmanship
- 

**EVENT: 0331 - 1 - 013**

Perform operator maintenance for an M16A2 service rifle

**Condition:** Given an M16A2 service rifle, cleaning gear, and lubricant.

**Standard:** In accordance with TM 05538C-10/1A.

**PERFORMANCE STEPS**

1. Clear the rifle.
2. Unsnap the sling.
3. Place the rifle on the butt stock, press down on the slip ring, and remove the hand guards.
4. Push the takedown pin as far as it will go and pivot the upper receiver from the lower receiver.
5. Push the receiver pivot pin and separate the upper and lower receivers.
6. Pull back on the charging handle and bolt carrier to remove the bolt carrier group.
7. Remove the charging handle.
8. Remove the firing pin retaining pin.
9. Put the bolt assembly in the locked position.
10. Drop the firing pin out of the rear of the bolt carrier.
11. Remove the bolt cam pin and then remove the bolt assembly from the carrier.
12. Remove the extractor pin and then remove the extractor and spring.
13. Press in on the buffer, depress retainer, and release the buffer. Then remove the buffer and the action spring.
14. Swab out the bore with a patch moistened with CLP.
15. Pull a bore brush through the bore and out the muzzle several times.
16. Pull a patch moistened with CLP through the bore and out the muzzle several times.
17. Thoroughly clean all areas of powder fouling on the upper receiver with CLP to include the chamber, locking lugs, and the gas tube.

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18. Thoroughly clean the bolt carrier group with CLP to include the outer and inner surfaces, carrier key, firing pin recess and firing pin, firing pin hole, locking lugs, ejector, and areas behind the bolt ring and upper lip of extractor.
19. Thoroughly clean all areas of powder fouling, corrosion, and dirt on the lower receiver group to include the trigger mechanism, buffer, action spring, and inside lower receiver extension.
20. Inspect the bolt for cracks, fractures, and pits.
21. Inspect the firing pin to ensure it is not bent, cracked, or blunted.
22. Inspect the firing pin retaining pin to ensure it is not bent or badly worn.
23. Inspect the cam pin to ensure it is not cracked or chipped.
24. Inspect the extractor and extractor spring to ensure it is not chipped or broken and that the rubber insert is inside the extractor spring.
25. Lightly lubricate the inside of the upper receiver, bore and chamber, outer surfaces of barrel and front sight, and the surfaces under the hand guard with CLP.
26. Apply several drops of CLP to the front sight detent and depress several times to work the CLP into the spring.
27. Generously lube the bolt to include the cam pin area, bolt rings, and the outside of the bolt body with CLP. Use only a light coat of CLP on the firing pin recess of the bolt.
28. Lightly lube the firing pin, charging handle, and inner and outer surfaces of the bolt carrier with CLP.
29. Generously lube the slide and cam pin area of the bolt carrier with CLP.
30. Lightly lube the inside lower receiver extension, buffer, and action spring with CLP.
31. Generously lube the takedown and pivot pins, detents, and the moving parts inside of the lower receiver and their pins.
32. Apply several drops of CLP to the moving parts of the adjustable rear sight to include the elevation knob, elevation screw shaft, windage knob, windage screw, and detent holes.
33. Ensure the correct windage and battle sight zero is reset on the weapon.
34. Insert action spring and buffer.
35. Insert extractor and spring, and then push in the extractor pin.
36. Slide bolt into carrier and replace the bolt cam pin.
37. Drop in and seat the firing pin.
38. Pull bolt out and replace the firing pin retaining pin.
39. Engage, then push the charging handle part way.
40. Slide in the bolt carrier group, then push the charging handle and bolt carrier group together.
41. Join the upper and lower receivers and engage the receiver pivot pin.

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42. Close the upper and lower receiver groups and push in the takedown pin.
43. Place the rifle on the butt stock and press down on the slip ring. Then install the hand guards and release the ring.
44. Snap on the sling.
45. Pull the charging handle to the rear and release. Place the selector lever on SAFE, pull the trigger, and ensure the hammer does not fall.
46. Place the selector lever on Semi, pull the trigger and hold to the rear. Hammer should fall.
47. Pull the charging handle to the rear and release. Release the trigger and pull again. Hammer should fall.
48. Place the selector lever on Burst. Pull the charging handle to the rear and release.
49. Pull the trigger and hold to the rear. Hammer should fall.
50. Pull the charging handle to the rear 3 times and release. Release trigger and pull again. Hammer should fall.

### REFERENCES

1. TM 05538C-10/1A Operator's Manual, Rifle, 5.56mm, M16A2 W/E
- 

### **EVENT: 0331 - 1 - 014**

Load an M16A2 service rifle

**Condition:** Given an M16A2 service rifle and ammunition, while wearing a fighting load.

**Standard:** By preparing the weapon for firing.

### PERFORMANCE STEPS

1. Ensure the weapon is in Condition 4.
2. Withdraw the magazine from the magazine pouch.
3. Ensure the magazine is filled.
4. Fully insert magazine in the magazine well.
5. Tug downward on the magazine to ensure it is held in the rifle by the magazine catch.
6. Close the magazine pouch.
7. Pull the charging handle to the rear and release.
8. Close the ejection port cover.

### EXTERNAL SUPPORT

1. Live fire range (if ammunition is used)

### WEAPON AND AMMUNITION

<b>Weapon:</b> M16A2	5.56mm service rifle	
<u>DODIC</u>		<u>Quantity</u>
A059	CTG, 5.56mm, BALL, M855	30 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
- 

**EVENT: 0331 - 1 - 015**

Field expedient zero an M16A2 service rifle

**Condition:** Given an M16A2 service rifle, ammunition, and a 36 yard BZO target, while wearing a fighting load.

**Standard:** By achieving point of aim/point of impact.

**PREREQUISITES**

0331 - 1 - 014

**PERFORMANCE STEPS**

1. Set rear sight elevation at 8/3.
2. Center the rear sight windage knob on the index line.
3. Flush the front sight post.
4. Ensure the small rear sight aperture is up.
5. Assume a prone position.
6. Assume a hasty sling.
7. Fire a 3 shot group.
8. Triangulate the shot group.
9. Make required elevation adjustments with the front sight post and required windage adjustments with the windage knob to center the shot group on the point of aim.
10. Repeat performance steps 7 through 9 until point of aim/point of impact is achieved.
11. Fire a 4 shot group to confirm zero.
12. Record battle sight zero on a piece of paper and place the paper in the butt stock for subsequent use.

**EXTERNAL SUPPORT**

1. Live fire range for M16A2 service rifle with BZO targets at 36 yards

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M16A2	5.56mm service rifle	
	<u>DODIC</u>		<u>Quantity</u>
	A059	CTG, 5.56mm, BALL, M855	10 each

**RELATED ITS**

014

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
-

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**EVENT: 0331 - 1 - 016**

Engage targets with an M16A2 service rifle

**Condition:** Given an M16A2 service rifle, ammunition, a sector of fire, and twelve unknown distance, moving, and limited exposure targets from 50 to 300 meters, while wearing a fighting load.

**Standard:** By achieving a hit on 8 of 12 targets presented within one minute.

**PREREQUISITES**

0331 - 1 - 014

**PERFORMANCE STEPS**

1. Place rifle in Condition 1.
2. Assume a firing position that provides cover, concealment, and good observation of the assigned sector of fire.
3. Detect targets by searching and assessing the assigned sector of fire.
4. Present rifle from the ready.
5. Engage targets.
6. Search and assess the assigned sector of fire for additional targets.
7. Place rifle on SAFE.

**EXTERNAL SUPPORT**

1. Live fire range for M16A2 service rifle with 10 to 20 man-size targets (static, limited exposure, and moving) at ranges of 50 to 300 meters

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M16A2	5.56mm service rifle	
<u>DODIC</u>		<u>Quantity</u>
A059	CTG, 5.56mm, BALL, M855	12 each

**RELATED ITS**

014                      017

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
- 

**EVENT: 0331 - 1 - 017**

Engage immediate threat targets with an M16A2 service rifle

**Condition:** Given an M16A2 service rifle, ammunition, a sector of fire, and twelve stationary, moving, and limited exposure targets within 50 meters, while wearing a fighting load.

**Standard:** By achieving double hits on 9 of 12 targets presented.

**PREREQUISITES**

0331 - 1 - 014

**PERFORMANCE STEPS**

1. Place rifle in Condition 1.
2. Place the large rear sight aperture (0-2) up.
3. Assume a standing firing position.
4. Detect targets by searching and assessing the assigned sector of fire.
5. Present rifle from the ready.
6. As the rifle is being presented, take the rifle off SAFE and place the trigger finger on the trigger.
7. When the front sight post intersects with the target, engage by firing 2 shots.
8. Search and assess the assigned sector of fire for additional targets.
9. Place rifle on SAFE.

**EXTERNAL SUPPORT**

1. Live fire range for M16A2 service rifle with 10 to 20 man-size targets (static, limited exposure, and moving) at ranges of less than 50 meters

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M16A2	5.56mm service rifle	
	<u>DODIC</u>		<u>Quantity</u>
	A059	CTG, 5.56mm, BALL, M855	48 each

**RELATED ITS**

014

**REFERENCES**

1. MCWP 3-35.3 Military Operations on Urbanized Terrain

**EVENT: 0331 - 1 - 018**

Engage targets with an M16A2 service rifle wearing a field protective mask

**Condition:** Given an M16A2 service rifle, ammunition, a sector of fire, and twelve unknown distance, moving, and limited exposure targets, while wearing a fighting load and a field protective mask.

**Standard:** By achieving a hit on 7 of 12 targets presented.

**PREREQUISITES**

0331 - 1 - 014

**PERFORMANCE STEPS**

1. Don and clear the field protective mask.
2. Place rifle in Condition 1.
3. Assume a firing position that provides cover, concealment, and good observation of the assigned sector of fire.

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4. Detect targets by searching and assessing the assigned sector of fire.
5. Present rifle from the ready.
6. Engage targets.
7. Search and assess the assigned sector of fire for additional targets.
8. Place rifle on SAFE.

**EXTERNAL SUPPORT**

1. Live fire range for M16A2 service rifle with 10 to 20 man-size targets (static, limited exposure, and moving) at ranges of 50 to 300 meters

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M16A2	5.56mm service rifle	
<u>DODIC</u>		<u>Quantity</u>
A059	CTG, 5.56mm, BALL, M855	12 each

**RELATED ITS**

014

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
- 

**EVENT: 0331 - 1 - 019**

Perform immediate action for an M16A2 service rifle

**Condition:** Given an M16A2 service rifle which fails to fire and ammunition, while wearing a fighting load.

**Standard:** By returning the weapon into action.

**PERFORMANCE STEPS**

1. Tap the bottom of the magazine to ensure it is seated.
2. Pull the charging handle to the rear and observe for ejected round.
3. Release the charging handle.
4. Sight in and attempt to fire.

**EXTERNAL SUPPORT**

1. Live fire range (if ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M16A2	5.56mm service rifle	
<u>DODIC</u>		<u>Quantity</u>
A060	CTG, 5.56mm, DUMMY	2 each

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
-

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**EVENT:** 0331 - 1 - 020

Perform remedial action for an M16A2 service rifle

**Condition:** Given an M16A2 service rifle which fails to fire after immediate action and ammunition, while wearing a fighting load.

**Standard:** By returning the weapon into action.

**PREREQUISITES**

0331 - 1 - 019

**PERFORMANCE STEPS**

1. Seek cover.
2. Pull the charging handle to the rear, observe for ejected brass or round and then lock the bolt to the rear.
3. If brass or round is ejected, go to step 9.
4. If no brass or round is ejected, place rifle in Condition 4.
5. Remove the bolt carrier group.
6. Inspect the bore for an obstruction from the chamber end.
7. Insert a cleaning rod into the bore from the chamber end and clear any obstruction.
8. Insert a magazine.
9. Release the bolt by depressing the bolt catch.
10. Tap the forward assist.
11. Sight in and attempt to fire.

**EXTERNAL SUPPORT**

1. Live fire range (if ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M16A2	5.56mm service rifle	
<u>DODIC</u>		<u>Quantity</u>
A060	CTG, 5.56mm, DUMMY	2 each

**RELATED ITS**

019

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
- 

**EVENT:** 0331 - 1 - 021

Combat reload an M16A2 service rifle

**Condition:** Given an M16A2 service rifle and ammunition, while wearing a fighting load.

**Standard:** By reloading while maintaining awareness of any threat.

**PREREQUISITES**

0331 - 1 - 014

**PERFORMANCE STEPS**

1. Seek cover.
2. Draw the rifle in close to your body so you can see what you are doing and retain positive control of the magazine.
3. Press the magazine release button.
4. Remove the partially filled or empty magazine and retain it on your person, if time permits.
5. Withdraw a filled magazine from the magazine pouch.
6. Fully insert the filled magazine into the magazine well and tug downward on the magazine to ensure it is properly seated.
7. If needed, release or press the bolt catch to allow the bolt carrier to move forward or pull the charging handle fully to the rear and release.

**EXTERNAL SUPPORT**

1. Live fire range (if ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M16A2	5.56mm service rifle	
<u>DODIC</u>		<u>Quantity</u>
A059	CTG, 5.56mm, BALL, M855	30 each

Expenditure of ammunition is not required.

**RELATED ITS**

014

**REFERENCES**

1. MCRP 3-01A Rifle Marksmanship
- 

**EVENT: 0331 - 1 - 022**

Clear an M16A2 service rifle

**Condition:** Given an M16A2 service rifle, while wearing a fighting load.

**Standard:** By placing the weapon in condition 4.

**PERFORMANCE STEPS**

1. Place the weapon on SAFE.
2. Remove the magazine and retain.
3. Rotate the weapon until the ejection port is down.
4. Lock the bolt to the rear and observe that there is no round or brass in the chamber.
5. Release the charging handle and observe that the bolt moves forward on an empty chamber.
6. Close the ejection port cover.

## INFANTRY T&R MANUAL

7. Recover, inspect, and insert any ejected ammunition into the magazine.
8. Return the magazine to the magazine pouch and close the magazine pouch.

### EXTERNAL SUPPORT

1. Live fire range (if ammunition is used)

### WEAPON AND AMMUNITION

<b>Weapon:</b>	M16A2	5.56mm service rifle	
	<u>DODIC</u>		<u>Quantity</u>
	A059	CTG, 5.56mm, BALL, M855	30 each

Expenditure of ammunition is not required.

### REFERENCES

1. MCRP 3-01A Rifle Marksmanship
- 

### **EVENT: 0331 - 1 - 073**

Select a machinegun firing position

**Condition:** Given a machinegun squad mission order.

**Standard:** By satisfying higher headquarters' mission requirements in accordance with the mission order.

### PERFORMANCE STEPS

1. Determine the team's/squad's mission from higher headquarter's mission, commander's intent, and team/squad tasks.
2. Analyze the assigned sector of fire, ensuring effective coverage of the sector of fire.
3. Analyze the position for good fields of fire.
4. Analyze the effectiveness of available cover and concealment.
5. Ensure the firing position facilitates the exercise of fire control.
6. Ensure machineguns are located and employed so that they can mutually support one another.
7. Designate the exact firing (primary) position on the ground prior to entrenching.
8. Designate an alternate firing position, which can continue to accomplish the original mission.
9. Designate a supplementary firing position.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### REFERENCES

1. FMFM 6-5 Marine Rifle Platoon/Squad
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
-

## INFANTRY T&R MANUAL

### **EVENT:** 0331 - 1 - 075

Prepare a machinegun range card

**Condition:** Given a tripod mounted, SL-3 complete machinegun, a designated sector of fire, a final protective line or principal direction of fire, a mission, lensatic compass, and writing materials, while wearing a fighting load.

**Standard:** Which contain each of the required items and is completed within 15 minutes.

#### **PERFORMANCE STEPS**

1. Record the machinegun position.
2. Record the FPL with a darkened black solid line with a shaded blade on inside of sector of fire.
3. Record the PDF as a solid line with an arrow and the range is recorded in the data section.
4. Draw north seeking arrow on card.
5. Record the magnetic azimuth of the sector limits. Primary sector of fire are drawn as solid lines and secondary drawn as a dotted line (heavy machineguns are not given a secondary sector of fire).
6. Record the back azimuth of the machinegun position to prominent terrain feature or known point by drawing a solid line with arrows along the line pointing toward gun position.
7. Record eight-digit grid coordinate of the machinegun position.
8. Designate estimated range of each circle.
9. Record area of grazing fire (FPL only) as the shaded blade along the FPL.
10. Record dead space. Dead space along the FPL is recorded by leaving gaps in the FPL.
11. Record targets and distance when applicable.
12. Lay on each target and record direction and elevation.
13. Confirm range estimation when possible preferably by fire.
14. Record the gun number.
15. Record unit description up to the company level.
16. Record date/time of preparation.
17. Record weapon type.
18. Complete remarks section with all pertinent information.
19. Submit 1 copy to higher headquarters.

#### **REFERENCES**

1. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
  2. FM 23-67 Machinegun 7.62mm, M60
- 

### **EVENT:** 0331 - 1 - 076

Direct the acquisition of machinegun targets

**Condition:** Given a machinegun squad mission order.

## INFANTRY T&R MANUAL

**Standard:** By issuing effective command and control which supports achievement of higher headquarters' mission.

### PERFORMANCE STEPS

1. Ensure effective fire is distributed over the entire target.
2. Ensure single, heavy machineguns on the tripod engage targets of 100 mils or less in width.
3. Ensure single, medium machineguns on the tripod or bipod engage targets of 50 mils or less.
4. Ensure a machinegun team/squad are assigned targets that exceed the widths in steps 3 and 4.
5. Ensure (when practical) at least 2 machineguns are assigned the same mission.

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT:** 0331 - 1 - 077

Issue a machinegun fire command

**Condition:** Given a machinegun squad mission order.

**Standard:** By issuing initial and subsequent fire commands which support the achievement of higher headquarters' mission.

### PERFORMANCE STEPS

1. Alert the machinegun team/squad by announcing unit size, in order to choose the gun crews and ready them to receive, and execute the fire command.
2. Given an accurate description of direction to the target issue direction when targets are not obvious use a reference point (RP), ensuring that the word TARGET precedes the target description.
3. Issue a brief target description, in order to inform the machinegun gunners of the nature of the target.
4. Issue the range to the target; ensuring announcement is delivered in even digits, hundreds or thousands.
5. Issue assignments/methods only when specific assignments are required to divide or subdivide the target, assign class of fire, or announce the rate of fire.
6. Issue the control order, in order to open fire.
7. Issue subsequent fire commands, in order to repeat or correct a fire command, to adjust fire, to cease or commence fire, or terminate the alert.

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  2. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
-

INFANTRY T&R MANUAL

**EVENT: 0331 - 1 - 079**

Lay a machinegun utilizing a M-2 compass

**Condition:** Given an SL-3 complete machinegun, firing tables, M2 compass, and ammunition, while wearing a fighting load.

**Standard:** By engaging targets accurately without adjusting onto the target and revealing the position of the gun.

**PERFORMANCE STEPS**

1. Ensure the compass has been declinated prior to use.
2. Locate the gun position and target on a map and draw a line between the 2 points.
3. Orient the map to the terrain and place the line of sight of the compass along the gun-target line drawn on the map.
4. The Squad Leader announces the magnetic azimuth indicated by the compass index to the guns as the direction of lay.
5. In order to measure the angle of site hold the opened compass in a vertical plane with the rear sight toward the body and the angle of sight level lever to the right.
6. Open the cover to an angle of 45 degrees to the face of the compass.
7. Fold the rear sight holder out parallel to the face of the compass with the rear sight perpendicular to the holder.
8. Look through the rear sight and raise or lower the instrument until the center line of the window bisects the opening in the rear sight and the object sighted; then level the tubular level reflected in the mirror, by means of the lever.
9. Read the angle of sight opposite the index. Care must be exercised to maintain the compass in a vertical plane to obtain accurate readings.
10. To measure the angle of elevation open the cover and rear sight holder so they are parallel with the face of the compass.
11. Place the left side of the opened compass on the leveling plates of the breech ring or on a level portion of the piece which is parallel to the bore.
12. Center the bubble of the elevation level and read the angle of elevation.
13. Once readings have been taken use these readings with the firing tables for the correct weapon system.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  2. TM 9-1290-333-15 Compass, Magnetic, Un-mounted: M2
- 

**EVENT: 0331 - 1 - 080**

Set the elevation of a machinegun utilizing the M1A2 gunner's quadrant

**Condition:** Given an SL-3 complete machinegun, firing tables, M1A2 gunner's quadrant, and ammunition, while wearing a fighting load.

**Standard:** By engaging targets accurately without adjusting onto the target and revealing the position of the gun.

INFANTRY T&R MANUAL

**PERFORMANCE STEPS**

1. Ensure elevation quadrant seats on the weapon.
2. Inspect quadrant shoes.
3. Zero the micrometer by turning micrometer knob.
4. Set index at 0 mils.
5. Position quadrant on weapon pointing toward muzzle end.
6. Depress/elevate tube to center bubble in level vial.
7. Reverse direction of quadrant and bubble should center. If bubble centers the quadrant is zeroed for end to end correction. If bubble does not center, center the bubble with micrometer knob.
8. Divide micrometer reading by 2 to obtain the positive correction.
9. Put the positive correction on micrometer.
10. Point quadrant toward muzzle end of weapon and depress/elevate tube to center the bubble.
11. Reverse direction of quadrant and bubble should center.
12. Record end for end correction on the carrying case.
13. Add the end for end correction to the desired elevation and place new elevation on quadrant using both the index pointer on the elevation scale and the micrometer.
14. Point quadrant toward muzzle end of the weapon.
15. Depress/elevate the weapon until the bubble centers in the level vial.

**REFERENCES**

1. TM 02193C-14&P Quadrant, Fire Control Gunner's, M1A2
- 

**EVENT: 0331 - 1 - 085**

Perform operator maintenance for an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun, cleaning gear, and lubricant.

**Standard:** In accordance with TM 08670A-10/1A.

**PERFORMANCE STEPS**

1. Ensure the safety is on FIRE.
2. Pull the cocking handle to the rear to lock bolt back.
3. Place safety to "S."
4. Push in on the latches to open the cover assembly.
5. Remove ammunition.
6. Raise the feed tray.
7. Visually and physically inspect the chamber to make sure it is empty.
8. Lower feed tray.
9. If round is still in chamber remove it.
10. Place safety to "F"

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11. Hold the cocking handle to the rear, depress the trigger, and ease the bolt forward to close and lock.
12. Close the cover assembly.
13. Depress the barrel locking latch and hold.
14. Turn the carrying handle to upright position.
15. Remove the barrel and pull straight out.
16. Depress the spring and remove trigger housing spring pin.
17. Pull trigger housing assembly down and back to remove.
18. Depress butt stock latch and lift the butt stock and buffer assembly to remove.
19. Press the drive spring in and up, and then pull it out.
20. Depress cover latches and raise cover assembly.
21. Pull cocking handle to the rear and remove the bolt and operating rod assembly.
22. Close cover.
23. Push out cover spring pin as far as possible and remove.
24. Remove the cover assembly and feed tray.
25. Rotate the collar until it releases, then pull it out.
26. Pull the plug from gas regulator.
27. Remove the cover from the scraper tool.
28. Insert the scraper into the center hole of the plug. Twist the scraper back and forth to remove carbon from the center hole.
29. Fold the scraper and press the point into the groove. Twist the scraper back and forth to remove carbon from the groove on the plug.
30. Pivot the scraper blade and place the tip of the scraper into the groove of the plug and twist back and forth to remove carbon from the groove on the plug.
31. Utilizing the tip of the scraper, scrape carbon from the surfaces of the plug.
32. Utilizing the small reamer, insert reamer into each gas inlet hole of the plug, twisting the reamer as it is lowered into the holes to remove carbon buildup from the holes.
33. Utilizing the large reamer, insert reamer through hole into the gas port hole in the barrel, twisting reamer as it is lowered into the hole to remove the carbon buildup from the hole.
34. Utilizing a cleaning rod and swab dampened with CLP, remove dirt and corrosion from the bore.
35. Remove dirt and corrosion from other parts using a wiping rag dampened with CLP or RBC.
36. Inspect for cracks, dents, burrs, or other damage on flash hider, barrel adapter, and carrying handle.
37. Place plug with gas inlet setting number 1 hole facing the barrel.
38. Install collar on the plug and rotate until collar slips onto the plug. Press and rotate to lock in place.
39. Lightly oil parts with CLP, LAW, or LSA in accordance with climatic considerations.

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40. Check the cover assembly for smooth operation, spring tension, bent parts, or excessive wear.
41. Check the cocking handle for bends and cracks, free movement, excessive wear, burrs, or chipped rails.
42. Check the barrel locking latch and cover detent for proper tension.
43. Inspect the trigger assembly for broken grips, bent, cracked, or broken trigger actuating assembly, loose nut or bolt, and chipped or cracked trigger housing holding lug.
44. Check the tripping lever and sear for burrs, cracks, chips, and wear.
45. Check the cocking action by pushing back on the tripping lever, and sear will rise. Pull the trigger and the sear will lower.
46. Check safety functions. When safety is placed to "S," pull the trigger and the sear will not lower. When safety is placed to "F," pull the trigger and the sear will lower.
47. Lightly lubricate the tripping lever and sear surfaces.
48. Utilizing the combination tool, insert into the bottom of the cavity of the piston end of the operating rod. Squeeze handles firmly and twist the combination tool back and forth to remove carbon.
49. Insert the screwdriver end of the combination tool into the cavity of the piston end of the operating rod to remove carbon residue in the bottom cavity.
50. Clean all other areas of the operating rod, firing pin, and spring pin with wiping rag dampened with CLP or RBC. Lightly oil with LAW after cleaning.
51. Check the bolt and operating rod assembly for burrs, cracks, broken pins, or frozen roller.
52. Push down on the roller to ensure it retracts.
53. Check the driving spring for broken strands.
54. Insert the combination tool carefully into the fore end of the gas cylinder of the receiver body.
55. Ensure the combination tool shoulder is fully inserted and seated against the fore end of the gas cylinder in receiver body.
56. Apply slight pressure to the handles and twist back and forth to remove carbon.
57. Clean the gas cylinder bore with the gas cylinder cleaning brush dampened with CLP or RBC.
58. Utilizing a wiping rag dampened with CLP or RBC, remove dirt and corrosion from the area under the front access cover of the receiver and all other parts.
59. Position the feed tray and cover assembly.
60. Push the cover assembly forward, close cover, and insert the spring pin from the right side.
61. Open the cover assembly and ensure the cover detent holds the cover assembly open.
62. Set the bolt and operating rod assembly on top of the rails.
63. Extend the bolt to the unlocked position and push the assembly all the way in the receiver.

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64. Close the cover assembly and lock.
65. Insert the driving spring into the operating rod assembly.
66. Push the driving spring in fully and lower it to seat the stud in the hole of the receiver.
67. Install the butt stock and buffer assembly ensuring it locks.
68. Position the trigger housing into place and insert the trigger housing spring pin.
69. Insert the barrel fully into the socket and push the carrying handle to the right as far as it will go to lock while counting the clicks. There should be between 2 to 7 clicks.
70. Place safety to "F."
71. Pull the cocking handle to rear to lock the bolt back.
72. Place safety to "S."
73. Depress the trigger - nothing should happen.
74. Place safety to "F."
75. Hold the cocking handle to the rear.
76. Depress the trigger and ease the bolt forward to close and lock.

### REFERENCES

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
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### **EVENT: 0331 - 1 - 086**

Mount an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun, while wearing a fighting load.

**Standard:** In accordance with MCWP 3-15.1

### PERFORMANCE STEPS

1. Extend the tripods legs until the sleeve latch engages, locking them open.
2. Rotate the elevating hand-wheel on the traversing and elevating mechanism until approximately 1 ½ inches, or 2 fingers, are visible on the upper elevating screw.
3. Rotate the traversing slide on the traversing and elevating mechanism until approximately 2 fingers are visible on the lower elevating screw.
4. Rotate the traversing hand-wheel on the traversing and elevating mechanism until the offset head is centered on the traversing screw. The traversing and elevating is now roughly centered.
5. Insert the flex-mount's pintle into the tripod's pintle bushing, and then engage the pintle locking lever to hold in place.
6. Insert the flex-mount's pintle into the tripod's pintle bushing, and then engage the pintle locking lever to hold in place.
7. Lower the traversing slide of the traversing and elevating mechanism over the traversing bar on the tripod with the traversing slide to the rear and traversing wheel to the left.

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8. Ensure the traversing slide of the traversing and elevating mechanism over the traversing bar on the tripod with the traversing slide to the rear and traversing wheel to the left.
9. Attach the machinegun to the flex mount by pushing the recesses on the forward portion of the receiver on the bottom of the receiver against the forward bushings on the flex mount.
10. Rotate the rear of the machinegun down to the mount and insert the retaining pin forward of the trigger housing assembly to lock the weapon into place.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 087**

Load an M240G medium machinegun with the cover open

**Condition:** Given an M240G medium machinegun and ammunition, while wearing a fighting load.

**Standard:** In accordance with MCWP 3-15.1.

**PERFORMANCE STEPS**

1. Pull the bolt to rear position.
2. Return the cocking handle to the forward position.
3. Place safety to "S."
4. Open the cover assembly.
5. Place link belt in feed tray, with the open side of the links down, with the first round against the cartridge stop aligning it with the feed tray groove.
6. Close and lock the cover assembly ensuring the first round stays in place to make a Condition 1 weapon.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 088**

Load an M240G medium machinegun with the cover closed

**Condition:** Given an M240G medium machinegun and ammunition, while wearing a fighting load.

INFANTRY T&R MANUAL

**Standard:** In accordance with MCWP 3-15.1.

**PERFORMANCE STEPS**

1. Pull the bolt to the rear and close the cover.
2. Ensure the safety is on "F."
3. Ride the bolt forward to engage the linear roller.
4. Place link belt into the feed way with the open side of the links down.
5. Ensure the first round of the belt engages the holding pawl and is held in place to make a Condition 3 weapon.
6. Pull the bolt to the rear position.
7. Return the cocking handle to the forward position.
8. Place the safety to "S" to make a Condition 1 weapon

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT:** 0331 - 1 - 089

Change a barrel for an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Cease firing.
2. Ensure the bolt is to the rear position.
3. Return the cocking handle to the forward position.
4. Place the safety to "S."
5. Depress the barrel locking latch and hold.
6. Grasp the barrel by the carrying handle.
7. Rotate the carrying handle to the upright position.
8. Push forward and pull up, separating the barrel from the receiver.
9. Grasp the spare barrel by the carrying handle.
10. Insert the spare barrel socket into the receiver while aligning the gas plug with the gas cylinder and pull to the rear of the receiver until the spare barrel is fully seated.

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11. Lower the carrying handle while ensuring that the number-of-clicks are counted as the carrying handle is lowered. A minimum of 2 clicks to a maximum of 7 clicks should be counted to ensure proper fit.

### EXTERNAL SUPPORT

1. Machinegun Range (if live ammunition is used)

### WEAPON AND AMMUNITION

<b>Weapon:</b>	M240G	7.62mm medium machinegun	
<u>DODIC</u>			<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1		10 each

Expenditure of ammunition is not required.

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery

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### **EVENT: 0331 - 1 - 090**

Perform immediate action for an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun that fails to fire and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

### PERFORMANCE STEPS

1. Shout "Misfire" and wait 5 seconds in case of a hang fire.
2. Within the next 5 seconds to guard against a cook off, pull the cocking handle to the rear, observing the ejection port for feeding and ejecting.
3. If the cocking handle cannot be pulled to the rear, assume a live round is in the chamber, determine hot or cold barrel, if hot wait 15 minutes, raise the feed tray cover, unload the weapon, and perform remedial action.
4. If cartridge was seen ejecting and feeding, return the cocking handle to the forward position and attempt to fire the weapon. If the weapon fails to fire for a second time, wait 5 seconds, within the next 5 seconds pull the bolt to the rear, if round is ejected, place weapon on SAFE, unload, and perform remedial action.
5. If cartridge did not eject, place the safety on SAFE, return the cocking handle forward assume a live round is in the chamber, and determine whether the barrel is hot or cold. If the barrel is hot, wait 15 minutes for the barrel to reach air temperature and proceed with cold barrel procedures.
6. Once the barrel has reached air temperature, raise the feed tray cover, remove ammo belt and links and inspect the chamber.
7. If the weapon is clear, reload and attempt to fire.
8. If cartridge is present, remove the cartridge by performing remedial action.
9. If the weapon still fails to fire, clear the gun, and conduct remedial action.

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**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 091**

Perform immediate action for a runaway M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun with a runaway gun and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Considering the situation and the number of rounds remaining on the belt determine the safest course of action.
2. If the requirement is to cease fire, break link belt by grasping and twisting it firmly.
3. If there is not a requirement to cease fire and the end of the belt is near, let the machinegun continue to fire.

**EXTERNAL SUPPORT**

1. Machinegun Range

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	100 each

**REFERENCES**

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 092**

Perform remedial action for a stuck cartridge in an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun with a stuck cartridge and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

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**PERFORMANCE STEPS**

1. Ensure the bolt is to the rear.
2. Ensure safety to "S."
3. Ensure the cover is raised and ammunition is removed
4. Wait until the barrel is cool, remove the barrel, and lift cartridge case from chamber of barrel, or pry rim if the case is tight.
5. If cartridge will not come out, remove swab holder from cleaning rod and insert cleaning rod through muzzle end of barrel.
6. Push cleaning rod through barrel to force stuck cartridge out of the chamber.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M240G	7.62mm medium machinegun	
<u>DODIC</u>			<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1		10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 093**

Perform remedial action for a ruptured cartridge in an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun with a ruptured cartridge and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Ensure the bolt is to the rear.
2. Ensure safety to "S."
3. Ensure the cover is raised and ammunition is removed
4. Wait until the barrel is cool and remove the barrel.
5. Push threaded end of extractor post through ruptured cartridge.
6. Pull on handle to remove cartridge.
7. If weapons fails to fire, clear the gun, and troubleshoot the weapon.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

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**WEAPON AND AMMUNITION**

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 094**

Perform remedial action for sluggish operation of an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun with sluggish operation and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Change barrels and continue the mission
2. Move the regulator setting to the number 2 or 3 position on the removed barrel.
3. If weapon operation continues to be sluggish, clean, lubricate, and tighten, or replace parts, as required.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 095**

Clear an M240G medium machinegun

**Condition:** Given an SL-3 Complete M240G medium machinegun and ammunition, while wearing a fighting load.

**Standard:** In accordance with TM 08670A-10/1A.

## INFANTRY T&R MANUAL

### PERFORMANCE STEPS

1. Pull cocking handle to the rear to lock bolt back.
2. Place the safety to "S."
3. Raise the cover.
4. Clear the feed tray of ammunition and links.
5. Lift the feed tray.
6. Visually and physically inspect the chamber to make sure it is empty.
7. Lower feed tray.
8. Place safety to fire.
9. Close cover assembly.
10. Hold cocking handle to the rear, depress trigger, and ride bolt forward on empty chamber to make a Condition 4 weapon.

### EXTERNAL SUPPORT

1. Machinegun Range (if live ammunition is used)

### WEAPON AND AMMUNITION

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	10 each
Expenditure of ammunition is not required.		

### REFERENCES

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
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### **EVENT: 0331 - 1 - 096**

Operate the M240G medium machinegun

**Condition:** Given a tripod mounted, SL-3 complete M240G medium machinegun, and ammunition, while wearing a fighting load.

**Standard:** In accordance with TM 08670A-10/1A and MCWP 3-15.1.

### PERFORMANCE STEPS

1. Remove barrel.
2. Check bore and chamber using cleaning rod with swab to remove excessive oil, foreign material, and obstruction.
3. Check gas regulator setting and ensure it is on setting 1.
4. Inspect flash suppressor and front sight blade for tightness and cracks.
5. Check the carrying handle to ensure moves freely.
6. Install and lock barrel into receiver ensuring 2 to 7 clicks while rotating handle down.
7. Ensure butt stock latch is locked.
8. Squeeze cover latches and open feed tray cover.
9. Ensure feed arm, pivot arm, and feed arm fork move freely.

INFANTRY T&R MANUAL

10. Checks feed pawls for free movement and spring tension.
11. Close the cover ensuring it latches.
12. Grasp cocking handle palms up and pull to the rear while ensuring bolt moves freely and locks to the rear.
13. Place safety to "S."
14. Pull trigger and ensure bolt stays to the rear.
15. Place safety to "F."
16. Hold cocking handle to the rear, pull the trigger, and ride the bolt forward to make a Condition 4 weapon.
17. Inspect ammunition ensuring it is free of dirt and corrosion, and that the double link is up and ready for loading.
18. Assume a prone position to rear of gun.
19. Center elevating hand-wheel so about 2 fingers (1 ½ inches) of thread are exposed above and below the hand-wheel.
20. Center the offset head on the traversing and elevation mechanism.
21. Place butt stock of weapon in right shoulder.
22. Estimate range to target.
23. Adjust rear sight to the range of the target.
24. Aim in on target using sight picture and alignment.
25. Grasp the traversing and elevation mechanism elevating hand-wheel with the left hand.
26. Grasp trigger housing with right hand.
27. Apply pressure to the rear and down with both hands to remove slack from traversing and elevation mechanism.
28. Unlock traversing bar slide lock.
29. Move gun left or right to adjust traverse close to target and while holding on target lock down traversing bar slide lock.
30. Turn traversing hand-wheel to traverse to the center of target.
31. Rotate elevating hand-wheel to adjust elevation onto the base of the target.
32. Load and make a Condition 1 weapon.
33. React to fire commands by adjusting traversing and elevating mechanism traverse first then elevation and rate of fire while maintaining a 6 to 8 round bursts.
34. Listen to the machinegun firing rate and if becomes sluggish perform remedial action for sluggish operation.
35. Pull bolt to the rear.
36. Place safety to "S."
37. Raise cover assembly.
38. Remove ammunition.
39. Raise feed tray to visually and physically inspect chamber and bore for ammunition or obstruction.
40. Lower feed tray.
41. Place safety to "F."
42. Close the cover, ride the bolt forward making a Condition 4 weapon.

## INFANTRY T&R MANUAL

43. Perform after operation preventative maintenance checks.

### EXTERNAL SUPPORT

1. Machinegun Range

### WEAPON AND AMMUNITION

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	100 each

### REFERENCES

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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### **EVENT: 0331 - 1 - 097**

(Table I) Execute ten-meter bipod firing exercise with the M240G medium machinegun

**Condition:** Given a bipod mounted, SL-3 complete M240G medium machinegun, ammunition, and a basic machinegun target, while wearing a fighting load.

**Standard:** By obtaining a minimum score of 84 out of a possible 119 points.

### PREREQUISITES

0331 - 1 - 087

0331 - 1 - 088

### PERFORMANCE STEPS

1. Set rear sight elevation at 500 meters.
2. Assume a good firing position and obtain correct sight alignment sight picture on paster A1.
3. Fire 3 rounds, 1 round at a time at paster A1.
4. Find center of shot group.
5. If the shot group is not in center of the aiming point using combination tool unlock the front sight-retaining strap and rotate upwards.
6. Rotate the front sight post blade counter-clockwise if group is above the aiming point and clockwise if below. 1 full turn will move the strike of the round 3/8 of an inch at 10 meters. If the post blade is more than halfway out replace the post blade with the number 2 blade.
7. If the shot group is to left of the aim point move the front sight protector to the left to move the point of impact to the right by using the hex wrench loosen the adjusting screw (counter-clockwise) on the right side of front sight assembly to the desired amount and tighten (clockwise) the opposite side screw exactly the same amount. 1 complete rotation of the adjusting screw will move the point of impact 1/3 of an inch. If the shot group is to the right of the aim point, the front sight protector must be moved to the right.

## INFANTRY T&R MANUAL

8. Fire 3 more rounds, 1 at a time at paster A1.
9. Find center of shot group.
10. If necessary adjust front sight to center of point of aim.
11. If Gunner is able to zero his weapon using 6 rounds have him use remaining 6 to confirm zero on paster A2.
12. The first string of fire will utilize pasters A3 and A4. A 7 round belt is loaded and fired at each paster (not for score).
13. The second string of fire will utilize pasters A5 through A6. A 35 round belt is loaded. The Gunner aims at paster 5 and fires initial 7 round burst, traversing and searching manipulation is then required for subsequent bursts at the remaining pasters ending with paster 6 (not for score).
14. The third string of fire will utilize pasters A7 through A8. A 56 round belt is loaded. The Gunner aims at paster 7 and fires initial 7 round burst, Traversing and searching is required for subsequent burst at the remaining pasters with ending at paster 8 (not for score).
15. The fourth string of fire will utilize pasters B1 through B4. A 7 round belt is loaded and fired at each paster for a total of 28 rounds in a time limit of 30 seconds per paster, for a total of 28 possible points (scored).
16. The fifth string of fire will utilize pasters B7 through B8. A 56 round belt is loaded. The Gunner aims at paster B7 and fires initial 7 round burst, Traversing and searching is required for subsequent burst at the remaining pasters with ending at paster B8 in a time limit of 60 seconds, for a total of 56 possible points (scored).
17. The sixth string of fire will utilize pasters B5 through B6. A 35 round belt is loaded. The Gunner aims at paster B5 and fires initial 7 round burst, traversing and searching manipulation is then required for subsequent bursts at the remaining pasters ending with paster B6 in a time limit of 60 seconds, for a total of 35 possible points (scored).
18. Clear the gun.

### **ADMINISTRATIVE INSTRUCTIONS**

1. The scoring procedures are as follows; one point is given for each round impacting within each scoring space. The maximum point value is 7 points for each scoring space. Rounds touching the line on the paster are considered a hit.
2. Marksman 84-95, Sharpshooter 96-107, and Expert 108-119.

### **EXTERNAL SUPPORT**

1. Live fire range for M240G medium machinegun with basic machinegun targets at 10 meters

### **WEAPON AND AMMUNITION**

<b>Weapon:</b>	M240G	7.62mm medium machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	A131	CTG, 7.62mm, LINKED 4&1	208 each

### **RELATED ITS**

087                      088

INFANTRY T&R MANUAL

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  2. FM 23-65 Browning Machinegun Caliber .50 HB, M2
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**EVENT: 0331 - 1 - 098**

(Table II) Execute a ten-meter tripod firing exercise with the M240G medium machinegun

**Condition:** Given a tripod mounted, SL-3 complete M240G medium machinegun, ammunition, and a basic machinegun target, while wearing a fighting load.

**Standard:** By obtaining a minimum score of 35 out of a possible 51 points.

**PREREQUISITES**

0331 - 1 - 087

0331 - 1 - 088

**PERFORMANCE STEPS**

1. Set rear sight elevation at 500 meters.
2. Assume a good firing position and obtain correct sight alignment sight picture on paster A1.
3. Fire 3 rounds, 1 round at a time at paster A1.
4. Find center of shot group
5. If the shot group is not in center of the aiming point using combination tool unlock the front sight-retaining strap and rotate upwards.
6. Rotate the front sight post blade counter-clockwise if group is above the aiming point and clockwise if below. 1 full turn will move the strike of the round 3/8 of an inch at 10 meters. If the post blade is more than halfway out replace the post blade with the number 2 blade.
7. If the shot group is to left of the aim point move the front sight protector to the left to move the point of impact to the right by using the hex wrench loosen the adjusting screw (counter-clockwise) on the right side of front sight assembly to the desired amount and tighten (clockwise) the opposite side screw exactly the same amount. 1 complete rotation of the adjusting screw will move the point of impact 1/3 of an inch. If the shot group is to the right of the aim point, the front sight protector must be moved to the right.
8. Fire 3 more rounds, 1 at a time at paster A1.
9. Find center of shot group.
10. If necessary adjust front sight to center of point of aim.
11. If Gunner is able to zero his weapon using 6 rounds have him use remaining 6 rounds to confirm zero on paster A2.
12. The first string of fire will utilize pasters A3 and A4. A 7 round belt is loaded and fired at each paster (not for score).

## INFANTRY T&R MANUAL

13. The second string of fire will utilize pasters A5 through A6. A 15 round belt is loaded. The Gunner aims at paster 5 and fires initial 3 round burst, traversing and searching manipulation is then required for subsequent bursts at the remaining pasters ending with paster 6 (not for score).

14. The third string of fire will utilize pasters A7 through A8. A 24 round belt is loaded. The Gunner aims at paster 7 and fires initial 3 round burst, traversing and searching is required for subsequent burst at the remaining pasters with ending at paster 8 (not for score).

15. The fourth string of fire will utilize pasters B1 through B4. A 3 round belt is loaded and fired at each paster for a total of 12 rounds in a time limit of 20 seconds, for a total of 12 possible points (scored).

16. The fifth string of fire will utilize pasters B7 through B8. A 24 round belt is loaded. The Gunner aims at paster B7 and fires initial 3 round burst, traversing and searching is required for subsequent burst at the remaining pasters with ending at paster B8 in a time limit of 40 seconds, for a total of 24 possible points (scored).

17. The sixth string of fire will utilize pasters B5 through B6. A 15 round belt is loaded. The Gunner aims at paster B5 and fires initial 3 round burst, traversing and searching manipulation is then required for subsequent bursts at the remaining pasters ending with paster B6 in a time limit of 40 seconds, for a total of 15 possible points (scored).

18. Clear the gun.

### ADMINISTRATIVE INSTRUCTIONS

1. One point is awarded for each round impacting within each scoring space. The maximum point value is 3 points for each scoring space. Rounds touching the line on the paster are considered a hit.

### EXTERNAL SUPPORT

1. Live fire range for M240G medium machinegun with basic machinegun targets at 10 meters

### WEAPON AND AMMUNITION

<b>Weapon:</b> M240G	7.62mm medium machinegun	
<u>DODIC</u>		<u>Quantity</u>
A131	CTG, 7.62mm, LINKED 4&1	100 each

### RELATED ITS

087                      088

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. FM 23-65 Browning Machinegun Caliber .50 HB, M2

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### **EVENT:** 0331 - 1 - 099

Prepare an AN/PVS-4 for operation with an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun, SL-3 complete AN/PVS-4, while wearing a fighting load.

**Standard:** In accordance with TM 11-5855-213-10.

**PERFORMANCE STEPS**

1. Inspect sight for dirt and moisture on external surfaces and parts. If needed clean and dry with lint free cloth.
2. Inspect the battery cap for corrosion, damaged contact, spring tension, and cap damage.
3. Inspect daylight cover for dirt or cracks in cover or broken lenses and rotate holder to be sure that all apertures can be used.
4. Inspect each switch and control for smooth mechanical action.
5. Turn tube brightness and reticle brightness switches to the off position.
6. Ensure daylight cover is on. The daylight cover must be installed when operating the sight during daylight to protect the image intensifier from damage.
7. Install battery and turn switch to on position. Image intensifier should glow green color and intensity should change as switch is rotated. In extreme cold battery BA-5567U should only be used.
8. Install mounting bracket on the M240G.
9. Mount the sight to the bracket by aligning the scribed line on the sight with the bracket and tighten the mounting screw.
10. Ensure if operating under unusual conditions that the operator follows the precautions for those conditions.
11. Press eye against the eye guard to open the rubber leaves that prevent the emission of stray light.
12. Turn the tube brightness control on and adjust the tube brightness control to the setting that provides the best target to background contrast at a minimum distance of 25 meters.
13. Turn on the reticle brightness control to turn on the light emitting diode and adjust the reticle light intensity so that the reticle is just visible against the background.
14. Turn the diopter focus ring until you get the clearest image of the reticle pattern.
15. Turn the objective focus ring until the target in the field of view is sharply defined at aiming distance of 25 meters.
16. Check reticle azimuth adjustment knob by rotating the knob and check to make sure that the reticle moves in azimuth.
17. Check reticle elevation adjustment knob by rotating the knob and check to make sure the reticle moves in elevation.
18. Check viewed image for edge glow, fixed pattern noise, and resolution.
19. Turn the reticle and tube brightness switches to the off position.
20. Remove the battery or battery adapter.
21. Check each knob, switch and control for smooth mechanical action.
22. Inspect sight for dirt and moisture on external surfaces and parts, clean and dry with lint free cloth.
23. Inspect battery cap for corrosion, damaged contact, spring tension and cap damage.

## INFANTRY T&R MANUAL

24. Inspect daylight cover for dirt or cracks in cover or broken lenses and rotate holder to be sure that all apertures can be used.
25. Inspect sight for dirt and moisture.
26. Inspect case for dirt, moisture, and mildew. Clean and dry with lint free cloth.

### EXTERNAL SUPPORT

1. Training area with clear fields of fire to 25 meters

### REFERENCES

1. TM 11-5855-213-10 Operator's Manual for Night Vision Sight Individual Served Weapon AN/PVS-4
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### **EVENT: 0331 - 1 - 100**

Perform operator maintenance on SL-3 gear for an M240G medium machinegun

**Condition:** Given SL-3 gear for an M240G medium machinegun, cleaning gear, and lubricant.

**Standard:** In accordance with MCWP 3-15.1.

### PERFORMANCE STEPS

1. Remove all dirt and rust from traversing and elevating mechanism and flex mount.
2. Extend the traversing and elevating mechanism elevating mechanism and clean far ends of elevating screw.
3. Clean elevation scale to ensure scale can be read without difficulty.
4. Rotate traversing hand-wheel and clean traversing screw.
5. Inspect the traversing and elevating mechanism for; scales can be read without difficulty, far ends of the traversing and elevating screws for cleanliness and perform function check by testing for dead clicks.
6. Lubricate the flex mount in accordance with climatic considerations, especially the threads on screws and hand-wheels.
7. Grasp the stock and pull back and forth to test for inordinate play in the M122 mount.
8. Clean all dirt and rust from the M122 tripod.
9. Inspect the tripod and flex mount for rust.
10. Inspect pintle in pintle bushing ensuring it locks in place.
11. Lubricate the tripod with CLP, especially to the sleeve and sleeve latch.
12. Remove all dirt from spare barrel and gun bag.
13. Inspect the gun bag and spare barrel bag for signs of deterioration and wear.
14. Rotate collar until it releases, then pull it out.
15. Pull plug from gas regulator.
16. Remove cover from the scraper tool.
17. Insert scraper into center hole of plug. Twist scraper back and forth to remove carbon from center hole.

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18. Fold scraper and press point into groove. Twist back and forth to remove carbon from groove on plug.
19. Pivot scraper blade and place tip of scraper into groove of plug and twist back and forth to remove carbon from groove on plug.
20. Utilizing the tip of scraper, scrape carbon from surfaces of plug.
21. Utilizing the small reamer, insert into each gas inlet hole of plug, twisting reamer as it is lowered into the holes to remove carbon buildup from the holes.
22. Utilizing the large reamer, insert through hole into gas port hole in barrel, twisting reamer as it is lowered into the hole to remove the carbon buildup from the hole.
23. Utilizing a cleaning rod and swab dampened with CLP remove dirt and corrosion from the bore.
24. Remove dirt and corrosion from other parts using a wiping rag dampened with CLP or RBC.
25. Inspect for cracks, dents, burrs, or other damage on flash hider, barrel adapter, and carrying handle.
26. Place plug with gas inlet setting number 1 hole facing the barrel.
27. Install collar on plug and rotate until collar slips onto plug. Press and rotate to lock in place.
28. Lightly oil parts with CLP, LAW, or LSA in accordance with the climatic considerations.
29. Ensure spare barrel bag contains all required SL-3 components

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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### **EVENT: 0331 - 1 - 101**

Inspect an M240G medium machinegun

**Condition:** Given an SL-3 complete M240G medium machinegun.

**Standard:** In accordance with TM 08670A-10/1A.

### PERFORMANCE STEPS

1. Ensure the weapon is clear.
2. Depress the barrel locking latch and hold.
3. Turn the carrying handle to upright position.
4. Remove the barrel and pull straight out.
5. Rotate the collar until it releases, then pull it out.
6. Pull the plug from the gas regulator.
7. Inspect the center hole of the plug for carbon and cleanliness.
8. Inspect the groove on the plug for carbon and cleanliness.
9. Inspect the surfaces of the plug for carbon and cleanliness.
10. Inspect the gas inlet holes of the plug for carbon and cleanliness.
11. Inspect the gas port hole in the barrel for carbon and cleanliness.

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12. Place the plug with gas inlet setting number 1 hole facing the barrel.
13. Install the collar on the plug and rotate until the collar slips onto the plug. Press and rotate to lock in place.
14. Inspect the bore and chamber for dirt, carbon, and corrosion.
15. Inspect for cracks, dents, burrs, or other damage on the flash hider, barrel adapter, and carrying handle.
16. Depress the cover latches and raise the cover assembly.
17. Check the cover assembly for smooth operation, spring tension, bent parts, or excessive wear.
18. Inspect the cover assembly.
19. Depress the spring and remove the trigger housing spring pin.
20. Pull the trigger housing assembly down and back to remove.
21. Inspect the trigger assembly, looking for broken grips, bent, cracked, or broken trigger actuating assembly, loose nut or bolt, and chipped or cracked trigger housing holding lug.
22. Check the tripping lever and sear for burrs, cracks, chips, and wear.
23. Check cocking action by pushing back on tripping lever, sear will rise. Pull trigger, sear will lower.
24. Check safety functions. When safety is placed to "S," pull trigger, sear will not lower. When safety is placed to "F," pull trigger, sear will lower.
25. Depress the butt stock latch and lift the butt stock and buffer assembly to remove.
26. Inspect the butt stock and the buffer assembly for cleanliness.
27. Press the drive spring in, up, and pull out.
28. Inspect the driving spring for broken strands and the drive spring rod for bends or breaks.
29. Pull the cocking handle to the rear and remove the bolt and operating rod assembly.
30. Check the bolt and operating rod assembly for cleanliness, burrs, cracks, broken pins, or frozen roller.
31. Push down on the roller to ensure it will retract.
32. Check for bends and cracks, free movement of the cocking handle, and excessively worn, burred, or chipped rails.
33. Check the barrel locking latch and the cover detent for proper tension.
34. Set the bolt and operating rod assembly on top of top of rails.
35. Extend the bolt to the unlocked position and push the assembly all the way in the receiver.
36. Close the cover assembly and lock it.
37. Insert the drive spring into the operating rod assembly.
38. Push it in fully and lower it to seat the stud in the hole of the receiver.
39. Install the butt stock and buffer assembly, ensuring it locks.

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40. Position the trigger housing into place and insert the trigger housing spring pin.
41. Insert the barrel fully into the socket and push the carrying handle to the right as far as it will go to lock while counting clicks. There should be between 2 to 7 clicks.
42. Place the safety to "F."
43. Pull the cocking handle to the rear to lock the bolt back.
44. Place the safety to "S."
45. Depress the trigger, nothing should happen.
46. Place the safety to "F."
47. Hold the cocking handle to the rear.
48. Depress the trigger and ease the bolt forward to close and lock.
49. Inspect for dirt and rust on the traversing and elevation mechanism and the flex mount.
50. Rotate the traversing hand-wheel and check the traversing screw.
51. Inspect the traversing and elevation mechanism for; scales can be read without difficulty, far ends of the traversing and elevation screws for cleanliness and perform function check by testing for dead clicks.
52. Grasp the stock and pull back and forth to test for inordinate play in the M122 mount.
53. Inspect the tripod and flex mount for rust and dirt.
54. Inspect the pintle and pintle bushing, ensuring it locks in place.
55. Inspect the gun bag and spare barrel bag for dirt, signs of deterioration and wear.
56. On the spare barrel, rotate the gas collar until it releases, then pull it out.
57. Pull the plug from the gas regulator.
58. Inspect the center hole of plug for carbon and cleanliness.
59. Inspect the groove on the plug for carbon and cleanliness.
60. Inspect the surfaces of the plug for carbon and cleanliness.
61. Inspect the gas inlet holes of the plug for carbon and cleanliness.
62. Inspect the gas port hole in the barrel for carbon and cleanliness.
63. Place the plug with gas inlet setting number 1 hole facing the barrel.
64. Install the collar on the plug and rotate until collar slips onto plug. Press and rotate to lock in place.
65. Inspect the bore and chamber for dirt, carbon, and corrosion.
66. Inspect for cracks, dents, burrs, or other damage on flash hider, barrel adapter, and carrying handle.
67. Ensure the spare barrel bag contains all required SL-3 components.

### REFERENCES

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
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**EVENT: 0331 - 1 - 104**

Perform operator maintenance for an M2 heavy machinegun

**Condition:** Given an SL-3 complete M2 heavy machinegun, cleaning gear, and lubricant.

**Standard:** In accordance with TM 02498A-10/1.

**PERFORMANCE STEPS**

1. Unlock the bolt latch release.
2. Pull retracting slide handle to the rear and hold it to the rear.
3. Raise the cover.
4. Remove the ammunition belt from the feed way.
5. Visually and physically inspect the chamber and T-slot for rounds.
6. If round on the T-slot pull the bolt an additional 1/16 of an inch to the rear.
7. Push round up and out of the T-slot by reaching under the gun and force the round up the face of the bolt.
8. Utilizing a cleaning rod insert in muzzle end of barrel, push through until can be seen in the chamber then remove.
9. Press the bolt latch release and ease the bolt forward with retracting slide handle.
10. Retract bolt far enough for barrel locking spring lug to center in the 3/8-inch hole on right hand side of receiver.
11. Unscrew and remove barrel assembly.
12. Pull back plate latch lock straight back, while lifting up on back plate latch. Raise back plate assembly straight up and remove from receiver, place spade grips down to prevent damage
13. Push rear of driving spring rod assembly forward and to the left until free from the side of the receiver.
14. Remove driving spring rod assembly.
15. Retract bolt assembly far enough to align bolt stud with bolt stud hole in receiver and remove bolt stud.
16. Install pointed end of M4 cleaning rod into hole in receiver and depress buffer body lock while applying rearward pressure on barrel extension assembly.
17. Remove barrel buffer assembly, barrel extension assembly, and the bolt group from the receiver.
18. Remove bolt assembly from the barrel extension assembly.
19. Separate the barrel buffer body group and the barrel extension group by pushing forward on tips of buffer accelerator.
20. Remove buffer assembly by pushing it out rear of barrel buffer body.
21. Rotate cartridge extractor upward and remove from left side of bolt.
22. Remove bolt switch by lifting straight up from bolt.
23. Place cocking lever in its rearmost position.
24. Release firing pin spring by pressing down on sear with swab holder section.

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25. Using swab holder section, remove cocking lever pin and cocking lever.
26. Using thin end of cocking lever, rotate accelerator stop lock to center of recess of bolt.
27. Turn the bolt over and shake to remove the accelerator stop lock.
28. Using thin end of cocking lever, press accelerator stop from bolt.
29. Turn bolt over and use thin end of cocking lever to pry accelerator stop from bottom of bolt.
30. Depress sear and remove sear slide.
31. Remove sear and sear spring.
32. Tip the front end of the bolt upward and remove firing pin extension assembly.
33. Remove firing pin from firing pin extension assembly.
34. Drive accelerator pin assembly from barrel buffer body with swab holder. Remove buffer accelerator.
35. Use pointed end of M4 cleaning rod to remove breech lock pin assembly and breech lock from barrel extension assembly.
36. Remove belt holding pawl pin attaching front cartridge stop and rear cartridge stop assembly to receiver. Remove front cartridge stop and rear cartridge stop assembly.
37. Hold down on belt holding pawl assembly to prevent loss of springs.
38. Remove belt holding pawl pin, belt holding pawl assembly, and 2 springs.
39. Raise loop of trigger lever pin and rotate pin until loop is in vertical position.
40. Reach inside receiver and hold trigger lever while removing trigger lever pin assembly. Remove trigger lever.
41. Utilizing the cleaning rods, bore brush, and RBC, dip the bore brush in RBC and run through chamber of barrel. Unscrew bore brush from cleaning rods, remove rods from bore, re-screw bore brush to rods, and repeat process until clean.
42. Utilizing the cleaning rods and chamber brush, dip chamber brush in RBC and clean chamber using a clockwise twisting motion. Unscrew chamber brush from cleaning rods, remove rods from bore, re-screw chamber brush to rods, and repeat process until clean.
43. Remove chamber brush from the swab holder section, insert a cleaning swab in slot, then run clean swab through bore, from chamber end and back. Repeat until a clean swab is obtained.
44. Clean outside surface of the barrel with carbon removing compound.
45. Wipe all surfaces dry with a clean wiping rag.
46. Inspect barrel locking notches for wear or breakdown.
47. Inspect barrel for rust.
48. Inspect bore for bulges, missing bands, or large pits.
49. Inspect chamber for bulges or large pits.
50. Lubricate barrel.
51. Inspect back plate guides for burrs or bent conditions.

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52. Check back plate latch and back plate latch lock for proper functioning.
53. Ensure locking pins are in place.
54. Check trigger for proper functioning.
55. Check bolt latch release for proper functioning.
56. Ensure handle grips do not move freely and are not cracked.
57. Check bolt latch release lock for proper functioning.
58. Lubricate back plate assembly.
59. Clean all parts of the bolt assembly with a cleaning swab saturated with carbon removing compound.
60. Clean face of bolt with a cleaning swab saturated with RBC.
61. Wipe all parts dry with clean wiping rags.
62. Inspect driving spring rod assembly for flat spots on springs, ensuring that springs operate freely and that rod and pin are not bent or broken.
63. Check movement of cartridge extractor in bolt. Cartridge extractor should raise and lower without binding.
64. Check movement of cartridge ejector observing for cracks and/or burrs.
65. Inspect bolt switch, cocking lever pin, cocking lever, accelerator stop lock, accelerator stop and sear slide for cracks, bends, and burrs.
66. Inspect sear for cracks and burrs, and inspect sear notch for wear, chips, or burrs. Inspect sear spring for breaks or lack of tension.
67. Inspect firing pin for cracks and chipped or sharp tip. Ensure the tip is smooth and well rounded.
68. Check firing pin extension for cracks, burrs, and free movement in bolt. Ensure shoulder that engages sear has a sharp angle and is free of chips and burrs.
69. Ensure bolt is free of burrs and cracks. Firing pin hole must not be visibly out of round.
70. Lubricate the bolt and driving spring rod assembly.
71. Clean all parts of the barrel buffer assembly with a cleaning swab saturated with carbon removing compound.
72. Wipe all parts dry with a clean wiping rag.
73. Inspect buffer body lock for tension, staking, and retention in barrel buffer body.
74. Inspect buffer accelerator for broken claws or tips.
75. Inspect accelerator pin assembly for broken or missing spring.
76. Inspect buffer spring for cracks or breaks.
77. Breech lock depressors must have a slight vertical (up and down) movement, but not have a lateral (side to side) movement.
78. Lubricate Barrel buffer assembly.
79. Clean all parts of the barrel extension assembly with a cleaning swab saturated with carbon removing compound.
80. Wipe all parts dry with clean wiping rag.

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81. Inspect barrel extension assembly to ensure it is not bent and that the bolt guide ways are smooth and free of burrs.
82. Visually inspect threads of barrel extension assembly for any damage.
83. Ensure barrel locking spring is staked and fully seated in its groove. Ensure the locking end of the spring has good tension and that the lug is not damaged.
84. Inspect breech lock pin assembly for broken or missing spring.
85. Check breech lock for smooth movement in guide ways of barrel extension assembly.
86. Lubricate barrel extension assembly.
87. Clean all surfaces of retracting slide handle with a cleaning swab saturated with carbon removing compound.
88. Wipe all parts dry with clean wiping rags.
89. Inspect retracting slide handle for cracks or other visible damage, observing for weak or broken retracting springs.
90. Ensure cotter pins are present and in good condition.
91. Ensure safety wire is in place and properly laced.
92. Lubricate retracting slide handle.
93. Clean all surfaces of receiver assembly with a cleaning swab saturated with carbon removing compound.
94. Wipe all parts dry with clean wiping rags.
95. Ensure the feed-way is clear of obstructions.
96. Inspect belt holding pawl brackets for looseness, bends, or cracks.
97. Inspect side plates for bends that would effect movement of any internal components.
98. Inspect for cracks and burrs at back plate grooves.
99. Check operating rear sight, ensuring free-movement of the windage and elevation screws.
100. Ensure leaf assembly has good spring tension and sight assembly is secured tightly to receiver.
101. Ensure bolt stop is present and in good condition.
102. Ensure trigger lever moves freely without binding.
103. Ensure trigger lever pin locks in place.
104. Ensure cotter pin is in place on extractor switch.
105. Apply a light coat of lubricating oil to all parts of receiver group prior to assembly in accordance with lubrication guide.
106. Install trigger lever bar in receiver.
107. Align hole in trigger lever bar with mounting hole in receiver.
108. Place trigger lever pin assembly, loop end vertical, in assembly hole on left side of receiver.
109. Match key on trigger lever pin assembly with keyway in side plate of receiver and install pin completely.
110. Rotate trigger lever pin assembly 90 degrees to lock securely in place and down out of way.
111. Check that trigger lever bar moves freely.

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112. Place right hand rear cartridge stop assembly and front cartridge stop on belt holding pawl bracket.
113. Install belt holding pawl pin with hooked end to rear.
114. Seat belt holding pawl springs in place on belt holding pawl bracket.
115. Place belt holding pawl assembly on springs. Compress springs and insert belt holding pawl pin.
116. Install breech lock in barrel extension assembly with double beveled edge up and to the front of barrel extension assembly.
117. Install breech lock pin assembly in barrel extension assembly. Ensure both ends of breech lock pin assembly are flush with sides of barrel extension assembly.
118. Place buffer accelerator into barrel buffer body, aligning mounting holes.
119. Install barrel buffer pin assembly. Ensure both ends of the barrel buffer pin assembly are flush with the sides of the barrel buffer body.
120. Align key on barrel buffer assembly with key slot in barrel buffer body, and slide barrel buffer assembly into barrel buffer body.
121. Hold barrel buffer assembly with buffer accelerator up and engage notch on shank of barrel extension assembly with cross groove in piston rod of barrel buffer assembly.
122. Align breech lock depressors in grooves of barrel extension assembly and push barrel buffer assembly forward, joining the 2 assemblies.
123. Attach firing pin to firing pin extension assembly.
124. Place firing pin extension assembly into bolt with notch of firing pin extension assembly down.
125. Slide firing pin extension assembly forward so that tip of firing pin protrudes from face of bolt.
126. Place sear spring in recess on bolt.
127. Slide sear down into vertical grooves at rear of bolt with wedge shaped lug pointed outward and upward.
128. Compress sear spring by pressing down on sear. Install sear slide from left side of bolt in grooves of bolt with "V" notch down.
129. Insert pin end of accelerator stop through bottom of bolt.
130. Turn bolt over and place forked end of accelerator stop lock on notched end of accelerator stop.
131. Using wedge shaped end of the cocking lever as a tool, press down on the flat end of the accelerator stop lock, and swing it into groove on the left side of bolt.
132. Insert cocking lever with rounded nose on lower end of lever to rear into the slot in top of the bolt.
133. Align hole in cocking lever with holes in the bolt. Insert cocking lever pin from left side.
134. Push cocking lever forward to charge firing pin and return cocking lever to rearward position.
135. Trip firing pin by depressing top of sear with swab holder section.

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136. Place cocking lever in forward position after testing the firing pin release.
137. Place bolt switch in position so that the feed groove is continuous for feed direction selected.
138. Hold cartridge extractor in vertical position and insert shank end of cartridge extractor into left side of bolt.
139. Rotate cartridge extractor downward to full horizontal position.
140. Check that flange on bottom of cartridge extractor has engaged shoulder on bolt.
141. Install bolt assembly into barrel extension and buffer assembly.
142. Install barrel buffer assembly, barrel extension assembly and bolt assembly into the receiver.
143. Push bolt assembly forward into receiver until bolt latch engages notches in top of bolt assembly.
144. Raise bolt latch and push bolt assembly into receiver.
145. Align hole in bolt assembly with stud assembly hole in receiver and install bolt stud in hole in bolt assembly.
146. Place bolt in forward position.
147. Install driving spring rod assembly in upper right hand corner of bolt. Push forward and to the right until drive spring rod assembly engages in hole in side plate of receiver and not in the groove for the back plate.
148. Install back plate assembly in receiver grooves. Pull back plate latch lock while lifting up on back plate latch. Lower back plate assembly down until engaged in receiver.
149. Retract bolt far enough for barrel locking spring lug to center in barrel locking spring hole on right side of receiver.
150. Install and screw barrel assembly completely into receiver. Unscrew barrel assembly until 2 clicks are heard.
151. Place the weapon in the single-shot mode.
152. Open the cover and lock the bolt to the rear. The bolt should stay to the rear in single-shot mode.
153. Hold the retractor slide handle, press bolt latch release, and ride the bolt forward.
154. Press down on the trigger; weapon should fire. Check T-slot to ensure the firing pin does protrude.
155. Place the weapon in automatic fire mode.
156. Pull the retractor slide handle to the rear and hold, bolt should not lock to the rear.
157. Release the pressure on the retractor slide handle and ride the bolt forward.
158. Make sure firing pin does not protrude.
159. Press trigger; weapon should fire.
160. Make sure the firing pin does protrude.

**REFERENCES**

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
  2. FM 23-65 Browning Machinegun Caliber .50 HB, M2
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**EVENT: 0331 - 1 - 105**

Set the headspace and timing for an M2 heavy machinegun

**Condition:** Given an M2 heavy machinegun, and headspace and timing gage, while wearing a fighting load.

**Standard:** In accordance with TM 02498A-10/1.

**PERFORMANCE STEPS**

1. Clear the machinegun.
2. Raise cover.
3. Grasp the retracting slide handle and retract bolt to align barrel locking spring lug with the 3/8-inch hole in the right side of the receiver.
4. Holding the bolt in this position, while screwing the barrel fully into the extension.
5. With the bolt retracted, unscrew barrel 2 notches or clicks.
6. Release the retracting slide handle and allow the bolt to go forward.
7. Ensure the barrel is locked in the forward position, by attempting to turn the barrel in either direction.
8. Pull bolt to the rear with retracting slide handle and hold. This charges the weapon and withdraws firing pin into bolt.
9. In single-shot-mode, hold retracting slide handle, push the bolt latch release, and slowly return bolt forward.
10. Remove slack in the bolt and barrel extension by retracting the retracting slide handle until the barrel extension begins to separate, but not more than 1/16 of an inch from the trunnion block.
11. Raise cartridge extractor and attempt to insert the GO end of the GO/NO GO head space gauge in the T-slot between the face of the bolt and the rear of the barrel all the way up to the ring.
12. If GO end of gauge will not enter T-slot freely, retract the bolt so you can see barrel locking lug spring in center of receiver hole on right side of receiver.
13. Unscrew barrel 1 notch or click.
14. Slowly return the bolt forward; then retract recoiling parts not more than 1/16 of an inch.
15. Recheck head space.
16. Repeat steps 13 to 16 until GO end of gauge enters and NO GO end of gauge does not enter.
17. If NO GO end of gauge enters T-slot, retract bolt so you can see barrel locking lug spring in center of receiver hole on right side of receiver.
18. Screw barrel in 1 notch or click.

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19. Slowly return bolt forward.
20. Repeat steps 17 to 19 until NO GO end of gauge does not enter and GO end of gauge enters.
21. After obtaining proper head space, recheck positive locking action of barrel by attempting to screw barrel in or out with bolt in forward position and proceed with timing.
22. Pull bolt to the rear with retracting slide handle to cock machine gun; while holding handle depress the bolt release latch and slowly return bolt forward. Do not press trigger.
23. Grasp retracting slide handle and retract bolt just enough (1/16 inch) to insert FIRE gauge with beveled edge against barrel notches between barrel extension and trunnion block.
24. Release retracting slide handle.
25. Remove back-plate.
26. Screw timing adjustment nut all the way down (to the left).
27. Attempt to fire the gun by pushing on the rear of trigger bar. Gun should not fire.
28. Screw timing adjustment nut up (to the right) 1 click at a time. Push up firmly on trigger bar after each click.
29. Repeat step 28 until gun fires.
30. Turn timing adjustment nut 2 more clicks up (to the right).
31. Remove firing gauge.
32. Replace back-plate.
33. Pull retracting slide handle to the rear and charge the machinegun.
34. Depress bolt latch release and slowly ease the bolt forward with the retracting slide handle.
35. Insert the NO FIRE gauge the weapon should not fire. If the weapon does fire a mechanical defect does exist.
36. Insert the FIRE gauge the weapon should fire.

### RELATED ITS

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### REFERENCES

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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### **EVENT:** 0331 - 1 - 106

Ground mount an M2 heavy machinegun

**Condition:** Given an SL-3 complete M2 heavy machinegun, while wearing a fighting load.

**Standard:** To put the weapon into action.

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### PERFORMANCE STEPS

1. Unscrew the leg clamping handle on the tripod.
2. Press down on the indexing lever, and extend the leg of the tripod to the desired length.
3. Align the indexing lever stud with 1 of the holes in the tripod leg extension.
4. Release pressure on the indexing lever, allowing the stud to fit the desired hole.
5. Tighten the leg clamping handle.
6. Turn the front leg clamp handle counter-clockwise to loosen the front leg of the tripod.
7. Adjust the leg to the desired angle and tighten the front leg clamp.
8. Secure the tripod legs by stamping the metal shoe on each tripod leg into the ground.
9. Sandbag each tripod leg to stabilize the M3 tripod for firing as necessary.
10. Attach pintle to front mounting hole on machinegun receiver using pintle bolt, nut, and cotter pin.
11. Rotate the elevating hand-wheel on the Traversing & Elevation mechanism until approximately 1 ½ inches, or 2 fingers, are visible on the upper elevating screw.
12. Rotate the traversing slide on the Traversing & Elevation mechanism until approximately 2 fingers are visible on the lower elevating screw.
13. Rotate the traversing hand-wheel on the Traversing & Elevation mechanism until the offset head is centered on the traversing screw. The Traversing & Elevation is now roughly centered.
14. Align the holes in the upper offset head of the Traversing & Elevation mechanism with the rear holes in the receiver.
15. Mount machinegun on tripod by lifting pintle lock release and insert the pintle into pintle bushing then press pintle lock down.
16. Lower the traversing slide of the Traversing & Elevation mechanism over the traversing bar on the tripod with the traversing slide to the rear and traversing wheel to the left.
17. Ensure the locking lever is secured by turning the locking lever clockwise.

### REFERENCES

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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#### **EVENT:** 0331 - 1 - 107

Vehicle mount an M2 heavy machinegun to an M-1043/44 hardback HMMWV

**Condition:** Given an M2 heavy machinegun, SL-3 complete, while wearing a fighting load.

**Standard:** To put the weapon into action.

**PERFORMANCE STEPS**

1. Remove the turret lock pin.
2. Install the universal weapons adapter.
3. Replace the turret lock pin.
4. Loosen the locking bolts on the universal weapons adapter on the HMMWV by turning the bolts counter-clockwise.
5. Insert the lower end of the pintle adapter into the universal weapons adapter.
6. Tighten the bolts by turning it clockwise, pull up on the pintle adapter to ensure it is secured.
7. Remove the quick-release pin from the pintle adapter.
8. Insert the MK64 MOD 7 gun cradle into the top of the pintle adapter and replace the quick-release pin.
9. Ensure the traversing and elevating mechanism is inserted into the pivot arm assembly.
10. Remove the train and elevating quick-release pin.
11. Attach the train and elevating assembly to the holes in the rear of the gun cradle.
12. Replace the quick-release pin and rotate it to the locked position.
13. Unscrew the train lock handle and hex bolt, separating the clamp into 2 parts.
14. Place the 2 halves of the clamp around the HMMWV pedestal.
15. Replace the bolt and the train lock handle, and tighten them alternately utilizing a 9/16 inch wrench.
16. Tighten the train lock handle and the hex bolt.
17. Remove the hex head bolts from the positioning clamp.
18. Place both parts of the clamp around the HMMWV pedestal  $\frac{1}{4}$  inch below the train and elevating clamp.
19. Insert the hex head bolts in the positioning clamp and tighten the bolts to lock the clamp in place, ensuring that it does not move up or down on the pedestal.
20. Secure the second clamp  $\frac{1}{4}$  inch above the train and elevating clamp utilizing step 15.
21. Attach the M2 mounting adapter to the machinegun and mount the M2 Machinegun.
22. Partly unscrew the wing-nut on the threaded stud of the bracket mounting assembly.
23. Align the stud with the forward groove in the side plate of the gun cradle.
24. Push the bracket mounting assembly up until the heads of the 2 mounting pins align with the 2 forward keyholes.
25. Push the heads of the 2 mounting pins into the keyholes and allow the bracket mounting assembly to slide down.
26. Tighten the wing-nut behind the side plate of the cradle.
27. Insert the 2 hooks on the empty case catch bag through the rear holes in the gun cradle.

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28. Engage the single front hanger on the catch bag with the hook on the gun cradle.

**REFERENCES**

1. TM 08686A-13&P/1 Mount, Machinegun, MK64
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**EVENT: 0331 - 1 - 108**

Load an M2 heavy machinegun with the cover open

**Condition:** Given an M2 heavy machinegun and ammunition, while wearing a fighting load.

**Standard:** To put the weapon into action.

**PERFORMANCE STEPS**

1. Ensure the bolt is in the forward position.
2. Open the cover.
3. Insert the double-loop end of the ammunition in the feed-way until the belt holding pawl holds the first cartridge.
4. Close the cover.
5. Pull the retracting slide handle to the rear and release it. If the weapon is in automatic mode the bolt and retracting slide handle will move forward under pressure of the driving spring group, but if in single-shot mode the retracting slide handle must be returned forward and the bolt latch release must be pressed to allow the bolt to go forward. To place the gun in Condition 3.
6. To fully load the gun follow the above performance step. To place the gun in Condition 1.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
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**EVENT: 0331 - 1 - 109**

Load an M2 heavy machinegun with the cover closed

**Condition:** Given an M2 heavy machinegun and ammunition, while wearing a fighting load.

**Standard:** To put the weapon into action.

**PERFORMANCE STEPS**

1. Ensure the bolt is in the forward position.
2. Close the cover.
3. Insert the double-loop end of the ammunition into the feed-way until the belt-holding pawl engages the first round.
4. Pull the retracting slide handle to the rear and release it. If the weapon is in automatic mode the bolt and retracting slide handle will move forward under pressure of the driving spring group, but if in single-shot mode the retracting slide handle must be returned forward and the bolt latch release must be pressed to allow the bolt to go forward. To place the gun in Condition 3.
5. To fully load the gun follow the above performance step. To place the gun in Condition 1.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M2	.50 cal heavy machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
2. FM 23-65 Browning Machinegun Caliber .50 HB, M2

**EVENT:** 0331 - 1 - 110

Operate an M2 heavy machinegun

**Condition:** Given an tripod mounted, SL-3 complete M2 heavy machinegun.

**Standard:** In accordance with TM 02498A-10/1 and MCWP 3-15.1.

**PREREQUISITES**

0331 - 1 - 108

0331 - 1 - 109

**PERFORMANCE STEPS**

1. Ensure the weapon is in Condition 4.
2. Check Bore and chamber using cleaning rod with swab to remove excessive oil, foreign material, and obstruction.
3. Check barrel support and breech bearing are free of dirt.
4. Raise the cover.
5. Check feed mechanism and bolt switch for proper assembly.
6. Check head space and timing if not correct adjust.
7. Check the rear sight to ensure it is clean and function properly.

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8. Set the rear sight at range of 1,000 and windage at 0.
9. Check traversing and elevating mechanism and ensure it is securely attached to the receiver.
10. Ensure traversing hand-wheel is centered.
11. Check to ensure elevating screws are equally exposed above and below the elevating hand-wheel.
12. Check the back plate and ensure it is latched and locked in place.
13. Ensure the bolt latch release is locked in the down position by the bolt latch release lock to place gun in automatic mode.
14. Clean and oil spare parts and tools as well as ensure SL-3 complete.
15. Inspect ammunition for cleanliness and in good condition.
16. Assume a firing position either sitting or prone.
17. Insert ammunition in feed way with doubled looped end first.
18. Close the cover and ensure it locks shut.
19. Grasp retracting slide handle palms up and pull the handle to the rear and release to make the gun half load.
20. Pull the retracting slide handle to rear and make gun full load.
21. Assume a firing position.
22. Right hand lightly grasps right spade grip with thumb on trigger.
23. Left hand on elevating hand-wheel palms down with thumb near slide lock lever.
24. Head as close to rear sight as possible while resting on left elbow.
25. Sets rear sight to estimated range.
26. Aim in on target while applying pressure down and to the right.
27. Unlock traversing bar slide lock.
28. Move gun left or right to adjust traverse close to target and while holding on target lock down traverse bar slide lock.
29. Turn traversing hand-wheel to center gun on target.
30. Rotate elevating hand-wheel to adjust elevation onto target.
31. React to fire commands by adjusting traversing and elevating mechanism, traverse first then elevation and rate of fire while maintaining 5 to 7 round burst.
32. Maintain lubrication while firing in accordance with lubrication guide.
33. Observe the function of the gun to anticipate failures.
34. Watch for bulged cases to prevent a ruptured case if occurs readjust head space.
35. Adjust rear sight per fire command.
36. Ensure ammunition stays correctly aligned with feed way and protect from sun, moisture, and dirt.
37. Watch for link stoppage.
38. Make a Condition 4 weapon.
39. Perform AFTER operation inspection.







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4. Insert a cleaning rod from the muzzle end of the barrel and pushed through until it can be visually seen in the receiver.
5. Push bolt latch release and ease the bolt forward.
6. Close cover to make a Condition 4 weapon.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each
Expenditure of ammunition is not required.		

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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**EVENT: 0331 - 1 - 114**

Perform immediate action for an M2 heavy machinegun

**Condition:** Given an M2 heavy machinegun that fails to fire and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Sound misfire.
2. Wait 5 seconds in case of a hang-fire.
3. Within the next 5 seconds to guard against a cook off, pull the retracting slide handle to the rear, observing for ejection and feeding.
4. If the retracting slide handle cannot be pulled to the rear, assume a live round is in the chamber, place gun on single-shot mode, and determine whether the barrel is hot or cold. If the barrel is hot wait 15 minutes for the barrel to reach air temperature, raise the feed tray cover, unload the weapon, and perform remedial action.
5. If cartridge was seen ejecting, and feeding took place, release the retracting slide handle and attempt to fire the weapon. If the weapon fails to fire for the second time, wait 5 seconds, within the next 5 seconds pull the bolt to the rear, if round is ejected, place the weapon on single-shot mode, unload, and perform remedial action.
6. If cartridge did not eject, place the gun on single-shot mode, return the retracting slide handle forward assume a live round is in the chamber, and determine whether the barrel is hot or cold. If the barrel is hot, wait 15 minutes for the barrel to reached air temperature and proceed with cold barrel procedures.
7. Once the barrel has reached air temperature, raise the cover, remove ammo belt and links and inspect the chamber.
8. If the weapon is clear, reload and attempt to fire.
9. If cartridge is present, remove the cartridge by performing remedial action.

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10. If the weapon still fails to fire, clear the gun, and conduct remedial action by field stripping and inspecting the gun.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 115**

Perform immediate action for a runaway M2 heavy machinegun

**Condition:** Given an M2 heavy machinegun in a runaway condition and ammunition, while wearing a fighting load.

**Standard:** To return the weapon into normal operation.

**PERFORMANCE STEPS**

1. Determine the safest course of action by considering the situation and the number of rounds remaining on the belt.
2. If the situation permits, keep the gun laid on target and let the machinegun fire out all remaining rounds.
3. In the situation requires an immediate cease fire, break the ammunition belt to reduce the number of round fired.

**EXTERNAL SUPPORT**

1. Machinegun Range

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	100 each

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 116**

Perform remedial action for an M2 heavy machinegun

**Condition:** Given an M2 heavy machinegun with a stoppage or malfunction, while wearing a fighting load.

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**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Ensure gun is in single-shot mode and pull retracting slide handle to the rear.
2. Open cover.
3. Return retracting slide handle forward.
4. Physically and visually inspect for cartridge in the chamber and T-slot.
5. If round is present in the chamber, insert a cleaning rod into the muzzle end of the machinegun and gently tap the round/casing from the chamber.
6. If a round is on the T-slot pull retracting slide handle an additional 1/16 inch to the rear and remove round from the face of the bolt by pushing the round up and out of the T-slot.
7. If a ruptured cartridge is present place the ruptured cartridge extractor in the t-slot of the bolt in the same manner as that of a cartridge, let the bolt go forward, then pull bolt to the rear and remove the ruptured case and extractor.
8. Return the bolt to the forward position.
9. Inspect the weapon to determine the cause of the stoppage.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M2	.50 cal heavy machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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**EVENT:** 0331 - 1 - 117

Perform remedial action for sluggish operation of an M2 heavy machinegun

**Condition:** Given ammunition and an M2 heavy machinegun with sluggish operation, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Check for proper lubrication.
2. Check head space and timing.
3. If weapon operation continues to be sluggish, clean, lubricate, or replace parts, as required.

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**EXTERNAL SUPPORT**

1. Machinegun Range

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	100 each

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 118**

Perform remedial action for stuck cartridge in an M2 heavy machinegun

**Condition:** Given an M2 heavy machinegun with a stoppage or malfunction, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Ensure gun is in single-shot mode and pull retracting slide handle to the rear.
2. Open cover.
3. Keep retracting slide handle to the rear.
4. Physically and visually inspect for cartridge in the chamber and T-slot.
5. If round is present in the chamber, insert a cleaning rod into the muzzle end of the machinegun and gently tap the round/casing from the chamber.
6. If a round is on the T-slot, pull-retracting slide handle an additional 1/16-inch to the rear. Remove round from the face of the bolt by pushing the round up and out of the T-slot.
7. Return the bolt to the forward position.
8. Inspect the weapon to determine the cause of the stoppage.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 02498A-10/1 Operator's Manual, Machineguns, Caliber .50; Browning, M2 Heavy Barrel
2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery

**EVENT: 0331 - 1 - 119**

Perform remedial action for a ruptured cartridge in an M2 heavy machinegun

**Condition:** Given ammunition and an M2 heavy machinegun with a ruptured cartridge, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Ensure gun is in single-shot mode, and pull retracting slide handle to the rear.
2. Open cover.
3. Return retracting slide handle forward.
4. Physically and visually inspect for cartridge in the chamber.
5. If a ruptured cartridge is present, place the ruptured cartridge extractor in the T-slot of the bolt, in the same manner as that of a cartridge.
6. Push the bolt latch release, sending the bolt forward.
7. Pull retracting slide handle to the rear, and remove the ruptured case and extractor.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> M2	.50 cal heavy machinegun	
<u>DODIC</u>		<u>Quantity</u>
A576	CTG, CAL .50, 4&1 LINKED, F/M2	10 each

Expenditure of ammunition is not required.

**REFERENCES**

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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**EVENT: 0331 - 1 - 120**

Prepare an AN/TVS-5 for operation with an M2 heavy machinegun

**Condition:** Given an SL-3 complete M2 heavy machinegun, SL-3 complete AN/TVS-5, and ammunition, while wearing a fighting load.

**Standard:** In accordance with TM 11-5855-214-10.

**PERFORMANCE STEPS**

1. Inspect sight for dirt and moisture on external surfaces and parts. Clean and dry with lint free cloth.
2. Inspect battery cap for corrosion, damaged contact, spring tension, and cap damage.
3. Inspect daylight cover for dirt or cracks in cover or broken lenses. Rotate holder to be sure all apertures can be used.
4. Inspect each switch and control for smooth mechanical action.

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5. Turn tube brightness and reticle brightness switches to OFF position.
6. Ensure daylight cover is on. The daylight cover must be installed when operating the sight during daylight to protect the image intensifier from damage.
7. Install batteries and turn switch to ON position. Image intensifier should glow green color and intensity should change as switch is rotated.
8. Ensure gun is clear before mounting the AN/TVS-5.
9. Raise the cover assembly to the UP position.
10. Ensure the rear sight is in the DOWN position.
11. Position the night sight mounting bracket with the extensions pointing toward the rear of the gun.
12. Pull out the right and left hand locking levers.
13. Slide the mounting bracket to the rear, over the upper edges of the receiver, until it is seated firmly and cannot be moved any further.
14. Lock the bottom left hand locking lever then the top 2 locking levers. Shake the mounting bracket by hand, and retighten the bracket by hand.
15. Close the cover assembly.
16. Mount the sight to the bracket by aligning the scribed line on the sight with the scribed line on the bracket. Tighten the lever screw, to secure the sight to the bracket.
17. Ensure the operator follows the appropriate precautions if operating under unusual conditions.
18. Press eye against the eye guard to open the rubber leaves that prevent the emission of stray light.
19. Turn the tube brightness control on and adjust the tube brightness control to the setting that provides the best target to background contrast.
20. Turn on the reticle brightness control to turn on the light emitting diode. Adjust the reticle light intensity so the reticle is just visible against the background.
21. Turn the diopter focus ring until the clearest image of the reticle pattern emerges.
22. Turn the objective focus ring until the target in the field of view is sharply defined in the sight picture.
23. Check reticle azimuth adjustment knob by rotating the knob, and check to make sure the reticle moves in azimuth.
24. Check reticle elevation adjustment knob by rotating the knob, and check to make sure the reticle moves in elevation.
25. Check viewed image for edge glow, fixed pattern noise, and resolution.
26. Turn the reticle and tube brightness switches to the OFF position.
27. Remove the battery or battery adapter.
28. Check each knob, switch, and control for smooth mechanical action.
29. Inspect sight for dirt and moisture on external surfaces and parts. Clean and dry with lint free cloth.
30. Inspect battery cap for corrosion, damaged contact, spring tension, and cap damage.

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31. Inspect daylight cover for dirt or cracks in cover or broken lenses. Rotate holder to be sure all apertures can be used.
32. Inspect each switch and control for smooth mechanical action.
33. Inspect case for dirt, moisture, and mildew. Clean and dry with lint free cloth.

### REFERENCES

1. TM 11-5855-214-10 Operator's Manual, Night Vision Sight, Crew Served Weapon AN/TVS-5
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### **EVENT: 0331 - 1 - 122**

Perform operator maintenance for SL-3 gear for an M2 heavy machinegun

**Condition:** Given SL-3 gear for an M2 heavy machinegun cleaning gear, and lubricant.

**Standard:** In accordance with MCWP 3-15.1.

### PERFORMANCE STEPS

1. Remove all dirt and rust from traversing and elevation mechanism.
2. Extend the traversing and elevation elevating mechanism and clean far ends of elevating screw.
3. Clean elevation scale, to ensure scale can be read without difficulty.
4. Rotate traversing hand-wheel and clean traversing screw.
5. Inspect the traversing and elevation mechanism for readability of scales and cleanliness of far ends of the traversing and elevating mechanism screws. Perform function check by testing for dead clicks.
6. Lubricate the traversing and elevation in accordance with lubrication guide, especially the threads on screws and hand-wheels.
7. Clean all dirt and rust from the M3 tripod.
8. Remove the tripod legs by unscrewing the leg clamping handle on the tripod. Press down on the indexing lever, and remove the leg of the tripod.
9. Remove all rust and dirt from the legs, utilizing CLP and wire brush.
10. Remove all rust and dirt from the upper leg, ensuring the inside is free of dirt and corrosion.
11. Visually inspect the tripod components for wear, cracks, dents and damage. Ensure springs are free of rust, corrosion, and deformation.
12. Ensure all parts are properly installed and are in working condition.
13. Insert pintle into pintle bushing ensuring it locks in place.
14. Lubricate the tripod with CLP. Pay special attention to the sleeve and the sleeve latch.
15. Clean all surfaces of the MK64 carriage and cradle assembly with a dry rag.

## INFANTRY T&R MANUAL

16. Inspect the MK64 for binding and damaged or missing retaining pins, chains, cotter pins, self locking screws, pintle, pintle lock assembly, and bolts. Check all welded areas for cracks. If paint is removed from the assembly touch up or repaint.
17. Lightly lubricate all moving parts, and test for smooth operation, while working in the lubricant.
18. Clean all surfaces of the pintle adapter assembly with a dry rag.
19. Inspect for missing or damaged screw, cable, pintle, and quick release pin.
20. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
21. Lubricate the quick release pin.
22. Clean the train and elevation assembly with a dry rag.
23. Inspect for missing or broken screws, washers, nuts, handles, and the chain.
24. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
25. Lightly lubricate all moving parts, and test for smooth operation, while working in the lubricant.
26. Clean the pintle and MK64 mounting adapter with a clean dry rag.
27. Inspect pintle and mounts for cracks and damage. Check for missing bolts, cotter pins, and washers.
28. Lubricate all surfaces with CLP.
29. Clean the ammunition mount assemblies with a dry rag.
30. Inspect the ammunition mount assemblies for missing screws, chains, cotter pins, retaining pins, welded pins, and straight pins. Check all welds for cracks. Check for binding or broken springs.
31. Lightly lubricate all surfaces with CLP.
32. Clean the gun and barrel cover with hot soapy water.
33. Inspect for broken zipper, excessive wear or deterioration.

### REFERENCES

1. TM 08686A-13&P/1 Mount, Machinegun, MK64
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### **EVENT: 0331 - 1 - 123**

Perform operator maintenance for SL-3 gear for a MK19 heavy machinegun

**Condition:** Given SL-3 gear for a MK19 heavy machinegun cleaning gear, and lubricant.

**Standard:** In accordance with MCWP 3-15.1.

### PERFORMANCE STEPS

1. Remove all dirt and rust from traversing and elevating mechanism.
2. Extend the traversing and elevating mechanism's elevating mechanism and clean far ends of elevating screw.
3. Clean elevation scale to ensure scale can be read without difficulty.

INFANTRY T&R MANUAL

4. Rotate traversing hand-wheel and clean traversing screw.
5. Inspect the traversing and elevation mechanism for readability of scales and cleanliness of far ends of the traversing and elevating mechanism screws. Perform function check by testing for dead clicks.
6. Lubricate the traversing and elevating mechanism in accordance with lubrication guide, especially the threads on screws and hand-wheels.
7. Clean all dirt and rust from the M3 tripod.
8. Remove the tripod legs by unscrewing the leg clamping handle on the tripod. Press down on the indexing lever, and remove the leg of the tripod.
9. Remove all rust and dirt from the legs, utilizing CLP and wire brush.
10. Remove all rust and dirt from the upper leg, ensuring the inside is free of dirt and corrosion.
11. Visually inspect the tripod components for wear, cracks, dents and damage. Ensure springs are free of rust, corrosion, and deformation.
12. Ensure all parts are properly installed and are in working condition.
13. Insert pintle into pintle bushing ensuring it locks in place.
14. Lubricate the tripod with CLP. Pay special attention to the sleeve and the sleeve latch.
15. Clean all surfaces of the MK64 carriage and cradle assembly with a dry rag.
16. Inspect the MK64 for binding and damaged or missing retaining pins, chains, cotter pins, self locking screws, pintle, pintle lock assembly, and bolts. Check all welded areas for cracks. If paint is removed from the assembly, touch up or repaint.
17. Lightly lubricate all moving parts, and test for smooth operation while working in the lubricant.
18. Clean all surfaces of the pintle adapter assembly with a dry rag.
19. Inspect for missing or damage to the screw, cable, pintle, and quick release pin.
20. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
21. Lubricate the quick release pin.
22. Clean the train and elevation assembly with a dry rag.
23. Inspect for missing or broken screws, washers, nuts, handles, and the chain.
24. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
25. Lightly lubricate all moving parts, and test for smooth operation, while working in the lubricant.
26. Clean the pintle and MK64 mounting adapter with a clean dry rag.
27. Inspect pintle and mounts for cracks and damage. Check for missing bolts, cotter pins, and washers.
28. Lubricate all surfaces with CLP.
29. Clean the ammunition mount assemblies with a dry rag.

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30. Inspect the ammunition mount assemblies for missing screws, chains, cotter pins, retaining pins, welded pins, and straight pins. Check all welds for cracks. Check for binding or broken springs.
31. Lightly lubricate all surfaces with CLP.
32. Clean the gun and barrel cover with hot soapy water.
33. Inspect for broken zipper, excessive wear or deterioration

### REFERENCES

1. TM 08686A-13&P/1 Mount, Machinegun, MK64
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### **EVENT: 0331 - 1 - 124**

Perform operator maintenance on a MK19 heavy machinegun

**Condition:** Given an SL-3 complete MK19 heavy machinegun, cleaning gear, and lubricants.

**Standard:** In accordance with TM 08521A-10/1A.

### PERFORMANCE STEPS

1. Place weapon on SAFE.
2. Charge the weapon and hold left charger assembly to the rear and down. Return the right charger assembly forward.
3. Insert the tip of a cleaning rod through the right hand receiver rail, as close to the bolt as possible.
4. Push down on live round or case. Force it off the bolt face and out the bottom of the gun. Catch the round as it falls out the bottom of receiver.
5. Open top cover.
6. With 1 hand, reach beneath the feeder. Press the primary and secondary positioning pawls.
7. At the same time, slide the linked rounds out of the feeder, and out the feed-throat.
8. Place the weapon on FIRE.
9. Return bolt in forward position.
10. Place weapon on SAFE.
11. Pull straight out on the back plate pin.
12. Lift up slightly on the back plate assembly. Pull it to the rear, until it clicks.
13. Put the safety on FIRE.
14. Support assembly with both hands, and pull rearward to remove. Once removed from the receiver, always place bolt and back plate assembly flat on a clean surface to reduce the possibility of damage.
15. Push down on pivot post to release the secondary drive lever and lift out.
16. Fold down tray with feed slide assembly and tray. Move it to line up the tabs with the slots in the tray.

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17. Lift upward on feed slide assembly and tray. Remove. Once removed from weapon system, place with feed pawls up, to reduce the possibility of damage.
18. Hold top cover straight up and pull out on pins, twisting as you pull to remove top cover. Once removed from weapon system, place with front sight blade up, to reduce the possibility of damage.
19. Lift tray out of feeder.
20. Reach under top of receiver to locate the drive lever lock, and slide the lock reward.
21. Press down on the primary drive levers pivot post to release both the primary drive lever and vertical cam to remove from the receiver. Once removed from weapon system, place with chrome edge up, to reduce the possibility of damage.
22. Depress the flat leaf spring. Slide alignment guide toward feeder mouth, and pull rearward to lift out.
23. Pull out the ogive plunger.
24. Push in on positioning block and slide toward muzzle of the gun. Pull round positioning block away from wall of receiver to remove.
25. Rotate left and right charger assemblies up.
26. Hook the rim of a spent casing under the lip of the lock plunger. Lift up on the lock plunger to retract it. Slide charger assembly all the way rearward and pull the charger assembly away from the receiver to remove.
27. With the weapon still on FIRE turn the receiver on its side and lift up slightly on lock pin with cartridge link.
28. Squeeze receiver sear and safety together. Then rotate sear housing assembly 90 degrees in either direction.
29. Push tip of sear down while placing safety on SAFE to lock the sear in the down position. Lift out to remove the housing assembly.
30. Wipe or brush away all dirt from all parts, especially the interior of the receiver housing, receiver rails, and feeder.
31. Wipe out bore and chamber, using bore brush and rifle bore cleaner.
32. Wipe all parts of receiver dry.
33. Inspect receiver housing for cracks and rust.
34. Inspect receiver rails for burrs.
35. Inspect feeder pawls for no spring action or burrs.
36. Inspect barrel for carbon buildup and pitting in bore or chamber.
37. Check flash suppressor for dents or cracks.
38. Inspect rear sight for rust, legible sight scale, and binding in movable parts.
39. Apply light coat of lubrication to all parts, paying special attention to receiver rails, feeder, and feeder pawls. Working the pawls back and forth to spread the lubricant.
40. Wipe or brush away all dirt on sear housing assembly. Use CLP only, on rag or brush, to clean then wipe dry.
41. Inspect sear, especially rear shoulder of sear for burrs.
42. Apply light coat of lubrication to sear.

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43. Wipe and brush off dirt on alignment guide assembly. Then soak assembly in dry cleaning solvent and wipe dry.
44. Inspect alignment guide for deformed or cracked spring, cracks around pin, and looseness of pin.
45. Apply light coat of lubrication.
46. Wipe or brush off dirt on ogive plunger assembly and round positioning block.
47. Inspect ogive plunger head for spring action and round positioning block for weak spring action.
48. Apply light lubrication, especially on round positioning springs.
49. Wipe or brush off dirt on charger assembly. Use cleaning solvent to clean and wipe dry.
50. Check for burrs on groove edges.
51. Apply light lubrication, especially on grooved edges of rails.
52. Clean vertical cam assembly and primary drive lever, by soaking in cleaning solvent and wiping dry.
53. Inspect vertical cam assembly for burrs, scratches, or aluminum buildup on chromed edge and primary drive lever, especially around pivot posts.
54. Apply light coat of lubrication, especially around pivot posts on drive lever, and chromed edge on vertical cam assembly.
55. Wipe or brush off dirt on secondary drive lever. Then soak in cleaning solvent and wipe dry.
56. Inspect secondary drive lever for missing retaining ring from pivot post, burrs on pivot post, and burrs on forked end.
57. Apply light coat of lubrication especially around pivot pos. Apply only a small amount.
58. Wipe or brush off dirt on feed slide assembly and feed tray. Then soak in cleaning solvent and wipe dry.
59. Inspect feed pawls or feed tray pawl for burrs or binding. Inspect guide rails on tray for burrs.
60. Apply light coat of lubrication, especially to each feed pawl, feed tray pawl, and guide rails.
61. Wipe or brush off dirt from the top cover assembly, and apply cleaning solvent. Wipe dry.
62. Inspect top cover assembly for cracks or rust. Inspect the latch for binding or looseness.
63. Apply light coat of lubrication, especially on the latch mechanism, cover pins, pin holes, and the wear pad inside the cover.
64. Wipe or brush off dirt from all parts of the bolt and back plate assembly. Then apply CLP only, using a rag or brush only. Do not submerge in cleaning solvent. Wipe all surfaces dry.
65. Inspect cocking lever for broken or worn rear tip. Inspect for binding or bent guide rods. Inspect recoil springs for weak spring action. Inspect for missing or loose safety wire.
66. Apply light coat of lubrication to all parts, especially bolt face, bolt sear, guide rods, recoil springs, bolt rails, and cam followers.
67. Clean, inspect, and lubricate the MK64 mount components.

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68. Lubricate all parts with LSAT or LAW, depending on climatic conditions.
69. Squeeze sear and safety together. Then place safety on FIRE. Keeping pressure on safety, line up sear housing assembly at right angle to barrel centerline. Twist housing 90 degrees until assembly locks in place.
70. Rotate charger assemblies to straight up position. Line up lugs on charger with slots in receiver rail. Insert charger lugs into slots.
71. Hold tightly against rail, and slide forward until it locks in place.
72. Insert the round positioning block into slots, with the tang end forward. Push against block, and slide it toward the rear until block locks in place.
73. Insert ogive plunger.
74. Position the alignment guide assembly so the pin is lined up with slot in the feeder wall.
75. Depress the leaf spring, and slide the alignment guide all the way into the feeder, until it clicks.
76. Slide vertical cam assembly through rear of receiver. Raised portion should slide over hole in receiver and the drive lever lock should be underneath.
77. Engage forked end in the notch of the receiver.
78. While holding vertical cam assembly in place slide primary drive lever into receiver.
79. Engage pivot post of lever through holes in receiver and vertical cam. At the same time, slide the drive lever lock forward on the vertical cam, just beneath top of receiver.
80. Drop feed tray into top of feeder, with the recessed side up, ensuring the pin holes on the tray line up with the lugs on the receiver.
81. Position feed slide assembly so tabs are lined up with slots in the tray.
82. Insert tabs into slots. Then drop feed slide assembly into tray.
83. Hold top cover straight up. Line up the pin holes in the feed tray, top cover, and receiver lugs. Then insert top cover pins on both sides, ensuring the cross pin enters receiver.
84. Lift the feed slide assembly and tray, while engaging the forked end of the secondary drive lever with the feed slide pin.
85. Press the raised pivot post on the secondary drive lever through the hole in the top cover, Press the tray firmly against the top cover.
86. To insert the bolt and back plate assembly, make sure the cocking lever is cocked and forward. Place safety on FIRE, and insert the assembly into receiver.
87. When assembly stops, press the receiver sear and slide the assembly all the way forward. Then insert the back plate pin. to lock the assembly in place.
88. Ensure the secondary drive lever is properly engaged and the feed slide assembly is all the way to the left.
89. Close the cover.
90. Pull bolt to the rear.

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91. Place the safety on SAFE.
92. Press the trigger. Bolt should not go forward.
93. Place the safety on FIRE.
94. Press trigger and allow the bolt to spring home freely, in order to conduct firing pin inspection.
95. Place the safety on SAFE.
96. Open top cover.
97. Inspect firing pin and bolt face for signs of worn or damaged parts.
98. Move secondary drive lever back and forth, to ensure it moves freely.
99. Press the feed pawls to check for spring pressure.
100. Ensure the secondary drive lever is to the right and engaged under the feed tray. Then slide the feed slide to the left.
101. Ensuring the bolt is forward, close the cover and ensure it locks.

### REFERENCES

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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### **EVENT: 0331 - 1 - 125**

Ground mount a MK19 heavy machinegun

**Condition:** Given a MK19 heavy machinegun, SL-3 complete and a MK-64 MOD 7 gun cradle, while wearing a fighting load.

**Standard:** To put the weapon into action.

### PERFORMANCE STEPS

1. Turn the front leg clamp handle counter-clockwise to loosen the front leg of the tripod.
2. Adjust the leg to the desired angle, and tighten the front leg clamp.
3. Grab the left trail leg with left hand, With a snapping motion, pull the left leg to the left, engaging the sleeve latch.
4. Unscrew the leg clamping handles on the tripod.
5. Press down on the indexing levers, and extend the legs of the tripod to the desired length.
6. Align the indexing lever studs with one of the holes in the tripod leg extensions.
7. Release pressure on the indexing levers, allowing the studs to fit the desired holes.
8. Tighten the leg clamping handles.
9. Secure the tripod legs by stamping the metal shoe on each tripod leg into the ground.
10. Sandbag each tripod leg to stabilize the MK19 for firing, as necessary.
11. Unlock the tripod pintle lock release cam.

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12. Insert the gun cradle's pintle into the tripod pintle bushing.
13. Lock the pintle lock release cam to secure the gun cradle.
14. Check the gun cradle by pulling up on it slightly, ensuring it is seated and locked.
15. Rotate the elevating hand-wheel on the traversing and elevating mechanism until approximately 1 ½ inches, or 2 fingers, are visible on the upper elevating screw.
16. Rotate the traversing slide on the traversing and elevating mechanism until approximately 2 fingers are visible on the lower elevating screw.
17. Rotate the traversing hand-wheel on the traversing and elevating mechanism until the offset head is centered on the traversing screw. The traversing and elevating mechanism is now roughly centered.
18. Remove the stow pin from the gun cradle.
19. Align the holes in the upper offset head of the traversing and elevating mechanism with the rear holes in the gun cradle.
20. Lower the traversing slide of the traversing and elevating mechanism over the traversing bar on the tripod, with the traversing slide to the rear and traversing wheel to the left.
21. Ensure the locking lever is secured by turning the locking lever clockwise.
22. Insert the quick-release pin from the right.
23. Lift the MK19 into the gun cradle.
24. Align the grooves on the receiver with the lugs in the gun cradle, and slide the receiver forward.
25. Align the sear mounting holes with the gun cradle mounting holes.
26. Secure the rear of the weapon by inserting the retaining pin through the cradle and sear assembly. Rotate it until it locks in place.
27. If a safety clip is attached, use it to secure the retaining pin in place.
28. Attach the feed-throat to the MK19 by squeezing together each set of grip pins and attaching the feed-throat to the front left-hand side of the receiver assembly.
29. Ensure the feed-throat pins align with the pin holes in the receiver. Relax pressure on the spring-loaded grip pins, so they snap into place.

### REFERENCES

1. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
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### **EVENT: 0331 - 1 - 126**

Vehicle mount a MK19 heavy machinegun to an M-1043/44 hardback HMMWV

**Condition:** Given an SL-3 complete MK19 heavy machinegun, a MK-64 MOD 7 gun cradle, and an M-1043/44 hardback HMMWV with an M4 pedestal, while wearing a fighting load.

**Standard:** To put the weapon into action.

**PERFORMANCE STEPS**

1. Remove the turret lock pin.
2. Install the universal weapons adapter.
3. Replace the turret lock pin.
4. Loosen the locking bolts on the universal weapons adapter on the HMMWV by turning the bolts counter-clockwise.
5. Insert the lower end of the pintle adapter into the universal weapons adapter.
6. Tighten the bolts by turning it clockwise. Pull up on the pintle adapter to ensure it is secured.
7. Remove the quick-release pin from the pintle adapter.
8. Insert the MK64 MOD 7 gun cradle into the top of the pintle adapter and replace the quick-release pin.
9. Ensure the traversing and elevating is inserted into the pivot arm assembly.
10. Remove the train and elevating quick-release pin.
11. Attach the train and elevating assembly to the holes in the rear of the gun cradle.
12. Replace the quick-release pin and rotate it to the locked position.
13. Unscrew the train lock handle and hex bolt, separating the clamp into 2 parts.
14. Place the 2 halves of the clamp around the HMMWV pedestal.
15. Replace the bolt and the train lock handle. Tighten them by alternately utilizing a 9/16 inch wrench.
16. Tighten the train lock handle and the hex bolt.
17. Remove the hex head bolts from the positioning clamp.
18. Place both parts of the clamp around the HMMWV pedestal, ¼ inch below the train and elevating clamp.
19. Insert the hex head bolts in the positioning clamp and tighten the bolts to lock the clamp in place. Ensure it does not move up or down on the pedestal.
20. Secure the second clamp ¼ inch above the train and elevating clamp, utilizing step 15.
21. Mount the MK19 machinegun.
22. Partly unscrew the wing-nut on the threaded stud of the bracket mounting assembly.
23. Align the stud with the forward groove in the side plate of the gun cradle.
24. Push the bracket mounting assembly up until the heads of the 2 mounting pins align with the 2 forward keyholes.
25. Push the heads of the 2 mounting pins into the keyholes and allow the bracket mounting assembly to slide down.
26. Tighten the wing-nut behind the side plate of the cradle.
27. Insert the 2 hooks on the empty case catch bag through the rear holes in the gun cradle.

INFANTRY T&R MANUAL

28. Engage the single front hanger on the catch bag with the hook on the gun cradle.

**REFERENCES**

1. TM 08686A-13&P/1 Mount, Machinegun, MK64
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**EVENT: 0331 - 1 - 127**

Load a MK19 heavy machinegun

**Condition:** Given a mounted, SL-3 complete MK19 heavy machinegun and ammunition, while wearing a fighting load.

**Standard:** To put the weapon into action.

**PERFORMANCE STEPS**

1. Ensure the machinegun is on SAFE.
2. Ensure the bolt is in the forward position.
3. Attach the feed-throat to the weapon.
4. Open cover.
5. Insert the first round of the ammunition belt into the feeder (female link first).
6. Push the first round across the primary feed pawl. To move the feed slide assembly to the left, push the secondary drive lever to the right.
7. Close the cover assembly.
8. Grasp the charger assemblies, palms down.
9. Press in on the charger assembly locks.
10. Rotate the handles down, and pull them sharply to the rear.
11. Lock the bolt to the rear, and return the charger assemblies forward to their original upright position.
12. To make a Condition 3 weapon, place the safety switch to FIRE and press the trigger to come to half load.
13. Grasp, unlock, and turn the charger assemblies downward. Lock the bolt to the rear.
14. Ensure the safety switch is on SAFE.
15. Return the charger assemblies to their original upright position.
16. Upon completion, the MK19 is fully loaded, in Condition 1, and ready to fire.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	MK19	40mm grenade machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	B542	CTG, 40mm, LINKED, HE DP F/MK19	4 each

Expenditure of ammunition is not required.

**REFERENCES**

1. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
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**EVENT: 0331 - 1 - 128**

Operate a MK19 heavy machinegun

**Condition:** Given a tripod mounted, SL-3 complete MK19 heavy machinegun and ammunition; while wearing a fighting load.

**Standard:** In accordance with TM 08521A-10/1A.

**PREREQUISITES**

0331 - 1 - 127

**PERFORMANCE STEPS**

1. Open top cover.
2. Check firing pin to ensure tip protruding through face of bolt is not chipped or broken.
3. Lubricate bolt.
4. Move secondary drive lever back and forth to ensure moves freely.
5. Press pawls to check spring action.
6. Inspect link guide for roughness and excessive heat discoloration.
7. Ensure secondary drive lever is engaged with feed slide pin.
8. Move feed slide assembly to the left.
9. Ensure the bolt is forward.
10. Close top cover.
11. Pull bolt to the rear.
12. Place weapon on SAFE. Inspect ammunition for cleanliness, corrosion, and loose ogive.
13. Open top cover.
14. Check chamber for carbon buildup.
15. Use cleaning rod with rag and punch bore.
16. Place weapon on FIRE.
17. Hold 1 charger assembly, while pressing the trigger. Ride bolt home.
18. Place weapon on SAFE.
19. Squeeze spring loaded pins on feed-throat, and insert into slots on both sides of feeder.
20. Inspect ammunition for cleanliness, corrosion, and loose ogive.
21. Assume firing position behind gun.
22. With cover open, insert first round through feed-throat.
23. Insert first round into feeder, female link first. Push and slide the round across the first pawl. Don't roll the round.
24. Ensure the rounds are straight and firmly seated between first and second pawl.

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25. Move feed slide assembly to the left.
26. Close top cover.
27. Pull bolt to the rear.
28. Place weapon on FIRE.
29. Press trigger to half load.
30. Pull charger assemblies sharply to the rear.
31. Push the charger assemblies back to forward position, and rotate handles up. To come to full load.
32. Place weapon on SAFE.
33. Estimate range to target.
34. Adjust rear sight to the range of the target.
35. Sight in on the base of the target, using sight alignment and picture.
36. Place weapon on FIRE.
37. Place hands on control grips, with thumbs on trigger.
38. Press trigger to fire, firing 3 to 5 round burst.
39. React to fire commands by adjusting traversing and elevating mechanism. Adjust traverse first, then elevation and rate of fire. Maintain a 3 to 5 round burst until round hits within 5 meters of target.
40. Observe the function of the gun, to anticipate failures.
41. Place the weapon on SAFE.
42. Charge the weapon and hold the left charger assembly to the rear and down. Return the right charger assembly forward.
43. Insert tip of cleaning rod through the right hand receiver rail.
44. Place the cleaning rod section on top of the live round or cartridge case, as close to the bolt face as possible. Push down, and catch the round as it falls.
45. Open top cover.
46. With one hand, reach beneath the feeder and press the primary and secondary positioning pawls. At the same time, slide the linked rounds out of the feeder and out of the feed-throat.
47. Return linked rounds to ammo can.
48. Visually and physically inspect the chamber and bore for ammunition.
49. Make a Condition 4 weapon.

### EXTERNAL SUPPORT

1. Live fire range with targets appropriate for MK19 40mm machinegun

### WEAPON AND AMMUNITION

<b>Weapon:</b>	MK19	40mm grenade machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	B542	CTG, 40mm, LINKED, HE DP F/MK19	25 each

### RELATED ITS

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**REFERENCES**

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
- 

**EVENT: 0331 - 1 - 130**

Unload a MK19 heavy machinegun

**Condition:** Given an SL-3 complete MK19 heavy machinegun and ammunition, while wearing a fighting load.

**Standard:** To ensure a condition 4 weapon.

**PREREQUISITES**

0331 - 1 - 127

**PERFORMANCE STEPS**

1. Move the safety selector switch to the SAFE position.
2. Charge the weapon and leave charging handles to the rear and down. Return the right charger assembly forward.
3. Insert a section of the cleaning rod through the right side of the receiver rail.
4. Place the cleaning rod section on top of the live round or cartridge case, as close to the bolt face as possible. Push down, and catch the round as it falls.
5. Open the top cover assembly.
6. Remove any ammunition from the feed tray by reaching beneath the feed tray and pressing the primary and secondary positioning pawls.
7. At the same time, slide the linked rounds out of the MK19 through the feed-throat.
8. Visually and physically inspect the chamber and bolt face ensuring no live rounds are in the weapon.
9. Place the safety switch to FIRE.
10. While maintaining rearward pressure on the charger assembly, press the trigger and ease the bolt forward.
11. Place the safety switch to SAFE to make a Condition 4 weapon.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> MK19	40mm grenade machinegun	
<u>DODIC</u>		<u>Quantity</u>
B542	CTG, 40mm, LINKED, HE DP F/MK19	4 each

Expenditure of ammunition is not required.

**RELATED ITS**

127

**REFERENCES**

1. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 131**

Clear a MK19 heavy machinegun

**Condition:** Given an SL-3 complete MK19 heavy machinegun and ammunition, while wearing a fighting load.

**Standard:** To ensure a condition 4 weapon.

**PERFORMANCE STEPS**

1. Pull bolt to the rear.
2. Open cover.
3. Visually and physically inspect the chamber and bolt face again, ensuring no live rounds are in the weapon.
4. Place the safety switch to FIRE.
5. While maintaining rearward pressure on the charger assembly, press the trigger and ease the bolt forward.
6. Place the safety switch to SAFE to make a Condition 4 weapon.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b> MK19	40mm grenade machinegun	
<u>DODIC</u>		<u>Quantity</u>
B542	CTG, 40mm, LINKED, HE DP F/MK19	4 each

Expenditure of ammunition is not required.

**REFERENCES**

1. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 132**

Perform immediate action for a MK19 heavy machinegun with a failure to fire

**Condition:** Given an SL-3 complete MK19 heavy machinegun with a malfunction, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Sound off "Misfire."
2. Wait 10 seconds in case of a hang fire.

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3. Pull the bolt to the rear, while observing for feeding and ejecting. Return charger assemblies forward and up.
4. If feeding and ejecting occur relay on target and attempt to fire.
5. If weapon experiences a second consecutive misfire, sound off "Misfire." Wait 10 seconds and place on SAFE. Perform remedial action.
6. If weapon fails to feed or eject, pull bolt to the rear. Place weapon on SAFE, and perform remedial action.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	M203	40mm grenade launcher	
<u>DODIC</u>			<u>Quantity</u>
B542	CTG, 40mm, LINKED, HE DP F/MK19		4 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  3. GENADMIN MSG R 280802Z Feb 97 ZYB
- 

**EVENT: 0331 - 1 - 133**

Perform immediate action for a runaway MK19 heavy machinegun

**Condition:** Given a MK19 heavy machinegun with a runaway, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Considering the situation and amount of ammunition remaining, determine the safest course of action.
2. If requirement is immediate, with the right hand hold the weapon on target. With left hand, press charger assembly lock and lower charger assembly.
3. If requirement is not immediate and a limited amount of ammunition remains, hold weapon on target until remaining rounds on belt have fired.
4. Place weapon on SAFE and perform remedial action.

**EXTERNAL SUPPORT**

1. Machinegun Range

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	MK19	40mm grenade machinegun	
<u>DODIC</u>			<u>Quantity</u>
B542	CTG, 40mm, LINKED, HE DP F/MK19		30 each

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**REFERENCES**

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

**EVENT: 0331 - 1 - 134**

Perform remedial action for a MK19 heavy machinegun

**Condition:** Given a MK19 heavy machinegun with malfunction or stoppage, while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Ensure the bolt is to the rear and the weapon is on SAFE.
2. Charge the weapon, and leave charging handles to the rear and down. Return the right charger assembly forward.
3. Insert a section of the cleaning rod through the right side of the receiver rail.
4. Place the cleaning rod section on top of the live round or cartridge case, as close to the bolt face as possible. Push down, and catch the round as it falls.
5. Open the top cover assembly.
6. Remove any ammunition from the feed tray by reaching beneath the feed tray and pressing the primary and secondary positioning pawls.
7. At the same time, slide the linked rounds out of the MK19 through the feed-throat.
8. Visually and physically inspect the chamber and bolt face, ensuring no live rounds are in the weapon.
9. Place the safety switch to FIRE.
10. While maintaining rearward pressure on the charger assembly, press the trigger, and ease the bolt forward.
11. Place the safety switch to SAFE to make a Condition 4 weapon.
12. Once in Condition 4, conduct detailed inspection to investigate the cause of the stoppage or malfunction.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	MK19	40mm grenade machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	B542	CTG, 40mm, LINKED, HE DP F/MK19	4 each

Expenditure of ammunition is not required.

## INFANTRY T&R MANUAL

### REFERENCES

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
- 

### **EVENT: 0331 - 1 - 135**

Perform remedial action for a MK19 heavy machinegun with jammed bolt

**Condition:** Given ammunition and an SL-3 complete MK19 heavy machinegun with a stoppage, while wearing a fighting load.

**Standard:** To return the weapon into action.

### PERFORMANCE STEPS

1. Place the safety on SAFE.
2. Press the charger assembly locks, and rotate the charger assemblies down.
3. Pull the charger assemblies to the rear, as far as possible. Maintain rearward pressure on the assemblies while an assistant lifts the top cover.
4. Pull the charger assemblies to the rear until the bolt locks to the rear. Ensure the bolt will stay to the rear before releasing rearward tension on the charger assemblies. Rotate to the upright position.
5. Remove any ammunition from the feed tray by reaching beneath the feed tray and pressing the primary and secondary positioning pawls.
6. At the same time, slide the linked rounds out of the MK19 through the feed-throat.
7. Insert a section of the cleaning rod through the right side of the receiver rail.
8. Place the cleaning rod section on top of the live round or cartridge case, as close to the bolt face as possible. Push down, and catch the round as it falls. This action forces the round or cartridge case out of the MK19.
9. Visually and physically inspect the chamber and bolt face again, ensuring no live rounds are in the weapon.
10. Press the charger assembly locks and rotate the charger assemblies down.
11. Place the safety on FIRE. Depress the trigger, and ride the bolt home.
12. Ensure the feed slide assembly is to the left and the secondary drive lever is engaged with the feed slide pin.
13. Close the top cover.
14. Reload, relay, and continue mission.

### ADMINISTRATIVE INSTRUCTIONS

1. Do not attempt to remove an M383 HE projectile or cartridge. Immediately contact EOD.

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**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	MK19	40mm grenade machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	B542	CTG, 40mm, LINKED, HE DP F/MK19	4 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  3. GENADMIN MSG R 280802Z Feb 97 ZYB
- 

**EVENT: 0331 - 1 - 136**

Perform remedial action for a MK19 heavy machinegun with bore obstruction

**Condition:** Given an SL-3 complete MK19 heavy machinegun with a bore obstruction (any round except M383 HE), while wearing a fighting load.

**Standard:** To return the weapon into action.

**PERFORMANCE STEPS**

1. Cease fire immediately.
2. Place the safety on SAFE.
3. Clear immediate area of all personnel.
4. Ensure weapon has reached air temperature.
5. Pull the bolt to the rear and hold with left charger assembly to the rear and down. At the same time, catch the round as it is ejected.
6. Insert a section of the cleaning rod through the right side of the receiver rail.
7. Place the cleaning rod section on top of the live round or cartridge case, as close to the bolt face as possible, Push down, and catch the round as it falls. This action forces the round or cartridge case out of the MK19.
8. Open the top cover assembly.
9. Remove any ammunition from the feed tray by reaching beneath the feed tray and pressing the primary and secondary positioning pawls.
10. At the same time, slide the linked rounds out of the MK19 through the feed-throat.
11. Place round removal tool collar over end of flash suppressor and screw the 5 cap screws into slots on the flash suppressor.
12. Attach either end of the handle to the end of the threaded rod.
13. Position cup of threaded rod over ogive.

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14. Screw threaded rod into barrel, and push out projectile into hands of assistant.
15. Dispose of round properly.
16. Reload, relay, and continue mission

**ADMINISTRATIVE INSTRUCTIONS**

1. Do not attempt to remove an M383 HE projectile or cartridge. Immediately contact EOD.

**EXTERNAL SUPPORT**

1. Machinegun Range (if live ammunition is used)

**WEAPON AND AMMUNITION**

<b>Weapon:</b>	MK19	40mm grenade machinegun	
	<u>DODIC</u>		<u>Quantity</u>
	B542	CTG, 40mm, LINKED, HE DP F/MK19	4 each

Expenditure of ammunition is not required.

**REFERENCES**

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  3. GENADMIN MSG R 280802Z Feb 97 ZYB
- 

**EVENT: 0331 - 1 - 291**

Probe for a mine

**Condition:** Given an individual weapon, a non-metallic probe, and an emplaced antipersonnel or antitank mine, while wearing a fighting load.

**Standard:** In accordance with FM 21-75.

**PERFORMANCE STEPS**

1. Remove helmet, load-carrying equipment, watch, rings, belt, dog tags, and anything else may hinder movement or fall off.
2. Leave rifle and equipment with the team.
3. Place the unsharpened end of the probe in the palm of one hand with fingers extended and thumb holding the probe.
4. Probe every 5 cm (2 in) across a 1-meter front. Push the probe gently into the ground, at an angle less than 45 degrees.
5. Kneel (or lie down) and feel upward and forward with the free hand to find trip wires and pressure prongs before starting to probe.
6. Put just enough pressure on the probe to sink it slowly into the ground. If the probe does not go into the ground, pick or chip the dirt away with the probe and remove it by hand.
7. Stop probing when a solid object is touched.
8. Remove enough dirt from around the object to find out what it is.

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9. If the object detected is a mine, mark it by tying a piece of paper, cloth, or engineer tape to a stake and placing the stake in the ground by the mine. Report its exact location to higher headquarters.

### REFERENCES

1. FM 21-75 Combat Skills of the Soldier
- 

### **EVENT: 0331 - 1 - 292**

Negotiate a wire obstacle by crossing over

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** To achieve passage beyond the obstacle.

### PERFORMANCE STEPS

1. Crouch low and grasp the top strand of wire with one hand.
2. Use the other hand to reach forward and feel for a clear spot to place your foot.
3. Raise your body up, still grasping the top strand of wire.
4. Lift the foot up and over, passing it close to the hand holding the wire.

### EXTERNAL SUPPORT

1. Wire

### RELATED ITS

- 293                      294

### REFERENCES

1. MCWP 3-11.3 Scouting and Patrolling
- 

### **EVENT: 0331 - 1 - 293**

Negotiate a wire obstacle by crossing under

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** To achieve passage beyond the obstacle.

### PERFORMANCE STEPS

1. Remove the fighting load.
2. Tie the fighting load to the right leg, using a length of cord or a strap.
3. Grasp the lowest strands with the hands, or use the weapon to keep the body clear of the wire.
4. Back crawl under the obstacle, while pulling the fighting load with the right leg

### EXTERNAL SUPPORT

1. Wire

RELATED ITS

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REFERENCES

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT: 0331 - 1 - 294**

Negotiate a wire obstacle by cutting

**Condition:** Given an individual weapon, empty sandbag, and wire cutters, while wearing a fighting load.

**Standard:** To achieve passage beyond the obstacle.

PERFORMANCE STEPS

1. Wrap an empty sandbag around the wire cutters and wire to muffle the sound of the wiring being cut.
2. Grasp the bottom wire close to a post.
3. Cut the wire between the hand and the post.
4. Bend the wire back to create a passage point.
5. Repeat steps 1 through 4, working from the bottom, up.
6. Leave the top wire intact to lessen the chance of discovery by the enemy.
7. Crawl under the wire, with back on the ground.
8. Grasp the lowest strands with the hands, or use the weapon to keep the body clear of the wire.

EXTERNAL SUPPORT

1. Wire

RELATED ITS

293                      294

REFERENCES

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT: 0331 - 1 - 300**

Perform operator maintenance on a AN/PVS-4 individual weapons night sight or AN/TVS-5 crew served weapon night sight

**Condition:** Given an SL-3 complete AN/PVS-4 individual weapons night sight or AN/TVS-5 crew served weapon night sight, cleaning gear, and lubricant.

**Standard:** In accordance with TM 115855-213-10 or TM 11-5855-214-10.

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### PERFORMANCE STEPS

1. Clean the sight with a dry, lint free cloth.
2. Inspect the sight for dirt and moisture on external surfaces.
3. Clean the carrying bag and dry with a lint free cloth.
4. Inspect carrying bag for dirt, moisture, and mildew.
5. Clean the battery cap, and dry with a lint free cloth.
6. Inspect battery for corrosion, damaged contacts, spring tension, and cap damage.
7. Clean the daylight cover, and wipe dry with lint free cloth.
8. Inspect the daylight cover for dirt or cracks in the cover or broken lenses. Rotate the holder to be sure all apertures can be used.
9. Clean the switches and controls and dry with a lint free cloth.
10. Inspect the switches and controls for smooth mechanical action.
11. Inspect the tube brightness switch by turning it on. The image intensifier should glow green. Color intensity should change as switch is rotated.
12. Inspect reticle brightness switch by turning it on. Rotate control to check for change in reticle intensity.
13. With reticle brightness switch on, inspect diopter focus ring for smooth movement. Adjust for sharp image of reticle, ensuring the correct pattern for weapon system.
14. Inspect objective focus ring for smooth movement.
15. Inspect reticle elevation and azimuth adjustment knobs by rotating and ensuring the reticle pattern moves up and down the left to right.
16. Clean lenses with lint free, brush and lint free dry cloth.
17. Inspect lenses for scratches and chips.
18. Inspect viewed image for edge glow, fixed pattern noise, and resolution.

### REFERENCES

1. TM 11-5855-213-10 Operator's Manual for Night Vision Sight Individual Served Weapon AN/PVS-4
  2. TM 11-5855-214-10 Operator's Manual, Night Vision Sight, Crew Served Weapon AN/TVS-5
- 

### **EVENT: 0331 - 1 - 301**

Perform operator maintenance on a AN/PVS-7 night vision goggles

**Condition:** Given an SL-3 complete AN/PVS-7 night vision goggles, and authorized clear materials.

**Standard:** In accordance with TM 11-5855-262-10-2.

### PERFORMANCE STEPS

1. Open the carrying case and inventory items.
2. Check the maintenance record, and verify completion of the 180-day service.

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3. Inspect all lenses for dirt or fingerprint residue. If necessary, clean and dry lenses with water and lens tissue.
4. Inspect lenses for cracks or damage. Scratches and gouges are acceptable if operation is not affected.
5. Ensure the battery cap and battery cap retainer are present.
6. Remove the battery cap and inspect for moisture, cracks, and corroded or defective spring contacts. Inspect for the presence of preformed packing inside the cap.
7. Rotate diopter adjustment rings to make sure the eye pieces move freely through the range of motion and are not loose.
8. Inspect eye pieces for dirt, dust, and cracked or torn cups. Inspect for bent, broken, or improperly fitting eyecup. If necessary, clean with water.
9. Slide each eye piece back and forth to check for binding or looseness.
10. Rotate objective lens focus ring to ensure free range of movement.
11. Inspect the infinity focus-locking ring for tightness.
12. Inspect for cracked, torn, or missing lens cap. Inspect cord for cuts, damage, or frayed ends. Re-tie ends if necessary.
13. Remove any batteries and turn the switch from reset/OFF to ON to IR/pull. Each position should have a definite stopping point. Inspect for broken or missing knob.
14. Re-install batteries and check IR, and momentary IR if so equipped, functions by following the operating instructions in paragraph 2-27.
15. Remove goggles from the head mount while in operation. Goggles automatically shut off.
16. Inspect head mount for cuts, tears, fraying, holes, cracks, or defective fasteners.
17. Inspect head mount for dirt, dust, or corrosion.
18. Inspect head mount for dirt, dust, or corrosion.
19. Press the socket-release button and check for free motion.
20. Rotate the IR focus lens to ensure free movement.
21. Inspect for dirt, dust, scratches, or damage. If necessary, clean with water and dry with lens tissue. Install compass assembly and turn on goggles. When the illumination button is depressed, compass is visible.
22. Remove all items from the carrying case and shake out loose dirt and foreign material.
23. Inspect the carrying case for tears, cuts, excess wear, or damage to mounting clips.

### REFERENCES

1. TM 11-5855-262-10-2 Night Vision Goggles
- 

**EVENT:** 0331 - 1 - 302

Operate AN/PVS-7 night vision goggles

**Condition:** Given an SL-3 complete AN/PVS-7 night vision goggles, while

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wearing a fighting load.

**Standard:** In accordance with TM 09500A-10/1.

### PERFORMANCE STEPS

1. Install battery(ies).
2. Don the head mount or helmet mount.
3. Install the goggles into the mount socket.
4. Depress the side buttons and move the goggles fore or aft to set the appropriate eye relief.
5. Adjust straps.
6. Turn the power switch to the on position.
7. Adjust the tilt adjustment lock knob, if helmet mounted.
8. Adjust the eye pieces by sliding them together or apart so each eye can observe the entire field of view.
9. While obstructing view through the right eye piece, rotate the left diopter adjustment ring to obtain the clearest view.
10. Adjust the eye relief distance by pressing the socket release button and sliding the goggles fore or aft to obtain a full field of view.
11. Readjust the diopter adjustment rings for the best image.
12. Observe an object and adjust the objective lens focus until the sharpest image is obtained.

### REFERENCES

1. TM 09500A-10/1 Operator's Manual AN/PVS-7B
- 

### **EVENT: 0331 - 1 - 332**

Identify armored vehicles

**Condition:** Given armored vehicles.

**Standard:** By achieving identification of 80% of the vehicles by NATO designator.

### PERFORMANCE STEPS

1. Determine tank or non-tank. Note: If tank, follow steps 2, 3, 4, 6, and 8. If non-tank, follow steps 5, 6, 7, and 8.
2. Determine absence or presence of a copula.
3. Determine the type turret.
4. Determine absence or presence, type, and location of bore evacuator.
5. Determine location of turret.
6. Determine type of suspension.
7. Determine country of origin indicators.
8. Determine specific key identifying features.

**ADMINISTRATIVE INSTRUCTIONS**

1. Additional vehicles may be added to the above list by reviewing intelligence reports for current or expected areas of operation.

**RELATED ITS**

331

**REFERENCES**

1. Jane's Armor and Artillery 2000 (CD ROM)
  2. FM 2-11 Anti-Mechanized Operations
  3. CVIG Combat Vehicle Identification Guide (CD ROM)
  4. FM 100-2-3 The Soviet Army
- 

**EVENT: 0331 - 1 - 333**

Challenge personnel entering an area

**Condition:** Given an assigned area and an individual weapon, while wearing a fighting load.

**Standard:** By preventing enemy infiltration into the assigned area.

**PERFORMANCE STEPS**

1. Observe the front, flanks, and rear of the assigned area.
2. Upon observation/alert of enemy personnel, say, "Halt! Who is there?" before the person is close enough to pose a threat.
3. Say "Advance and be recognized!" while maintaining a concealed position and keeping the person covered.
4. Say "Halt!" when the person is close enough to be recognized.
5. If the person is recognized, allow them to pass. If the person is not recognized, issue the password in a low tone.
6. If the countersign is correctly returned, allow the person to pass. If the countersign is not returned or returned incorrectly, disarm and detain the person.

**REFERENCES**

1. FMFM 6-5 Marine Rifle Platoon/Squad
- 

**EVENT: 0331 - 1 - 334**

React to a ground flare

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By avoiding enemy detection.

**PERFORMANCE STEPS**

1. Drop to the ground.
2. Crawl away from the illuminated area.

**REFERENCES**

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT: 0331 - 1 - 335**

React to an overhead flare

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By avoiding enemy detection.

**PERFORMANCE STEPS**

1. Drop to a prone position upon hearing a flare being fired and before it illuminates.
2. Remain motionless while it is burning.
3. If in the open or moving when a flare bursts in the air, freeze or drop immediately.

**REFERENCES**

1. MCWP 3-11.3 Scouting and Patrolling
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**EVENT: 0331 - 1 - 338**

Perform creeping

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By advancing to an objective without being audibly detected.

**PERFORMANCE STEPS**

1. Move on hands and knees.
2. Use hands to feel for twigs, leaves, or other substances might make noise.
3. Using the hands, clear a spot to place your knee and keep your hand remaining at spot.
4. Bring your knee forward until it meets your hand.
5. Place your knee on the ground and repeat the action with the other hand and knee.
6. Clear an area for your rifle and lay it on the ground at your side.
7. Move it forward as you creep.

**REFERENCES**

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT: 0331 - 1 - 339**

Perform night walk

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By advancing to an objective without being audibly detected.

**PERFORMANCE STEPS**

1. Carry the weight of the body balanced on the rear foot until a secure spot is found for the forward foot.
2. Lift the forward foot high to clear any stiff grass, brush, or other obstruction.
3. Keep body weight balanced on the rear.
4. Lower the forward foot gently, toe first.
5. Explore the ground for objects that might make noise.
6. Lower heel of the forward foot, and slowly transfer the weight of the body to that foot.

**REFERENCES**

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT: 0331 - 1 - 340**

Move across an open area

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By minimizing exposure of self to observation or enemy fire.

**PERFORMANCE STEPS**

1. Make a visual reconnaissance of the area.
2. Select a position that offers the best cover and concealment.
3. Run the shortest distance between covered positions, without masking supporting fires.
4. Move along the far building to the next position.

**EXTERNAL SUPPORT**

1. Maneuver/Training area

**REFERENCES**

1. MCWP 3-35.3 Military Operations on Urbanized Terrain
  2. FM 90-10-1 Infantryman's Guide to Combat in Built-Up Areas
- 

**EVENT: 0331 - 1 - 341**

Select a hasty firing position

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By assuming a position which allows fire to be placed upon the enemy while taking advantage of available cover and concealment.

**PERFORMANCE STEPS**

1. Make a visual reconnaissance of the area.
2. Select a position that offers the best cover and concealment.
3. Fire around cover, not over it.
4. Remain far enough back from the cover, so the weapon or muzzle flash does not extend beyond it.
5. Avoid being silhouetted against a light colored background.
6. Fire from a kneeling or prone position, to reduce exposure to enemy fire.

**RELATED ITS**

342

**REFERENCES**

1. MCWP 3-35.3 Military Operations on Urbanized Terrain
- 

**EVENT: 0331 - 1 - 343**

Execute unarmed close combat

**Condition:** Given an opponent.

**Standard:** By disabling the opponent through serious bodily harm or death.

**PERFORMANCE STEPS**

1. Execute firearm disarmament techniques.
2. Execute unarmed techniques against hand-held weapons.
3. Execute counter techniques against hand-held weapon attacks.
4. Execute upper and lower body strikes.
5. Execute throws.
6. Execute chokes.
7. Execute counters to chokes and holds.
8. Execute ground fighting.

**RELATED ITS**

344

**REFERENCES**

1. MCRP 3-02B Close Combat
- 

**EVENT: 0331 - 1 - 344**

Execute armed close combat

**Condition:** Given an M16A2 service rifle fixed with a bayonet and/or a weapon of opportunity, and an opponent, while wearing a fighting load.

**Standard:** By disabling the opponent through serious bodily harm or

death.

**PERFORMANCE STEPS**

1. Execute offensive and defensive rifle bayonet techniques.
2. Execute offensive and defensive techniques using weapons of opportunity.
3. Execute offensive and defensive techniques using a knife.

**RELATED ITS**

343

**REFERENCES**

1. MCRP 3-02B Close Combat
- 

**EVENT: 0331 - 1 - 350**

Move parallel to a building

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By minimizing exposure of self to observation or enemy fire.

**PERFORMANCE STEPS**

1. Move 6 to 8 inches from the side of the building.
2. Stay in the shadows.
3. Present a low silhouette.
4. Move rapidly to the next position.

**EXTERNAL SUPPORT**

1. MOUT Facility / MOUT training area

**RELATED ITS**

351                      352

**REFERENCES**

1. MCWP 3-35.3 Military Operations on Urbanized Terrain
- 

**EVENT: 0331 - 1 - 351**

Move past a first floor window

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** Without exposing the body to enemy observation from inside the room.

**PERFORMANCE STEPS**

1. Stay below window level.
2. Do not silhouette self in the window.
3. Move 6 to 8 inches from the side of the building.



**REFERENCES**

1. MCWP 3-35.3 Military Operations on Urbanized Terrain
- 

**EVENT: 0331 - 1 - 355**

Observe around a corner

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** By minimizing exposure of self to observation or enemy fire.

**PERFORMANCE STEPS**

1. Assume a prone position.
2. Short stock the weapon.
3. Point the weapon in the direction to be observed.
4. Raise upper body onto the elbows.
5. Push body forward with feet and legs without moving elbows.
6. Rest forearms on the deck, keeping a low profile, and weapon ready.
7. Observe around the corner, exposing only the weapon, helmet, and a minimal amount of the face.

**EXTERNAL SUPPORT**

1. MOUT Facility / MOUT training area

**REFERENCES**

1. MCWP 3-35.3 Military Operations on Urbanized Terrain
- 

**EVENT: 0331 - 1 - 361**

Determine the grid coordinates of a point on a map

**Condition:** Given a topographical map, a point on a map, protractor, and map pen.

**Standard:** By determining the six-digit grid for the point.

**PERFORMANCE STEPS**

1. Ensure the appropriate scale is being used for the corresponding map.
2. Ensure the scale is right side up.
3. Place the zero-zero point at the lower left corner of the grid square.
4. Keep the horizontal line of the scale directly on top of the east-west grid line.
5. Measure the hundredths of a grid square right and up from the grid lines to the point.

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
-

**EVENT: 0331 - 1 - 362**

Determine a grid azimuth using a protractor

**Condition:** Given a topographical map, 2 points on a map, protractor, and map pen.

**Standard:** Within 1 degree.

**PERFORMANCE STEPS**

1. Draw a line between the 2 points.
2. Place the index of the protractor at the point where the drawn line crosses a vertical grid line.
3. Ensure the base line of the protractor is oriented parallel to a north-south grid line.
4. Ensure the 0 or 360 degree mark of the protractor is towards the top or north on a map, and the 90 degree mark of the protractor is to the right.
5. Align the 0 to 180 degree line of the protractor on the vertical grid line.
6. Read the value of the angle from the scale.

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 363**

Convert a magnetic azimuth to a grid azimuth

**Condition:** Given a topographical map and a magnetic azimuth.

**Standard:** By determining the grid azimuth, without error.

**PERFORMANCE STEPS**

1. Locate the declination diagram on the map.
2. Add or subtract the G-M angle to the grid azimuth, as indicated, in the declination diagram.

**RELATED ITS**

362

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 364**

Convert a grid azimuth to a magnetic azimuth

**Condition:** Given a topographical map and a grid azimuth.

**Standard:** By determining magnetic azimuth, without error.



**PERFORMANCE STEPS**

1. Lay the straight edge of a piece of paper on the map, and ensure the edge of the paper touches both points and extends past them.
2. Make a tick mark on the edge of the paper at each point.
3. Move the paper down to the graphic bar scale.
4. Align the right tick mark with a printed number in the primary scale so the left tick mark is in the extension scale.
5. Determine the distance represented in the primary scale.
6. Determine the distance represented in the extension scale.
7. Add the primary scale distance to the extension scale distance.

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 367**

Determine the error in a lensatic compass

**Condition:** Given a lensatic compass, a surveyed point with a level platform, an azimuth marker, and a surveyed known direction.

**Standard:** Within 1 degree.

**PERFORMANCE STEPS**

1. Place compass at survey point.
2. Remove all magnetic attractions.
3. Sight in on azimuth marker.
4. Calculate error.
5. Record error on compass.

**RELATED ITS**

365

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 368**

Orient a map by terrain association

**Condition:** Given a topographical map.

**Standard:** By orienting north and south of a map with north and south on the ground.

**PERFORMANCE STEPS**

1. Hold the map horizontal to the ground.
2. Match the surrounding terrain features to those depicted on the map.
3. Match the surrounding vegetation depicted on the map.

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4. Match the surrounding man-made features depicted on the map.
5. Rotate the map until the features on the map are aligned with the same features on the ground.

**EXTERNAL SUPPORT**

1. Maneuver/Training area

**RELATED ITS**

365

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 369**

Determine a back azimuth

**Condition:** Given a grid azimuth.

**Standard:** Without error.

**PERFORMANCE STEPS**

1. If the grid azimuth is 180 degrees or more, subtract 180 degrees from the azimuth.
2. If the grid azimuth is 179 degrees or less, add 180 degrees to the azimuth.

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 370**

Pre-set a lensatic compass and follow an azimuth during daylight

**Condition:** Given a topographical map, lensatic compass, designated points, protractor, map pen, and individual weapon, while wearing a fighting load.

**Standard:** By arriving within 100 meters of each designated checkpoint.

**PREREQUISITES**

0331 - 1 - 366

0331 - 1 - 367

**PERFORMANCE STEPS**

1. Determine pace count.
2. Orient a map.
3. Determine the distance between points.
4. Determine the grid azimuth between points.
5. Convert the grid azimuth to a magnetic azimuth.
6. Hold the lensatic compass level.





**EVENT: 0331 - 1 - 373**

Locate an unknown position by modified resection

**Condition:** Given a lensatic compass, topographical map, protractor, and map pen.

**Standard:** By determining a six-digit grid coordinate for an unknown position.

**PREREQUISITES**

0331 - 1 - 366

0331 - 1 - 367

**PERFORMANCE STEPS**

1. Orient the map.
2. Move to a linear terrain feature which can be identified on the map.
3. Visually identify a known point on the map.
4. Determine the magnetic azimuth to the known point from your position, utilizing a lensatic compass.
5. Convert the magnetic azimuth to a grid azimuth.
6. Convert the grid azimuth to a back azimuth.
7. Utilizing the back azimuth, draw a line on the map from the known point back towards the linear terrain feature which extends beyond the linear terrain feature.
8. Determine the grid coordinates of the unknown position on the map where the line crosses the linear terrain feature.

**EXTERNAL SUPPORT**

1. Maneuver/Training area

**RELATED ITS**

365

367

368

372

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 374**

Locate an unknown position by resection

**Condition:** Given a lensatic compass, topographical map, protractor, and map pen.

**Standard:** By determining a six-digit grid coordinate of an unknown position within 100 meters.

**PREREQUISITES**

0331 - 1 - 366

0331 - 1 - 367

**PERFORMANCE STEPS**

1. Orient the map.
2. Visually identify 2 known points on the map.
3. Determine the magnetic azimuth to one of the known points from your unknown position, utilizing a lensatic compass.
4. Convert the magnetic azimuth to a grid azimuth.
5. Convert the grid azimuth to a back azimuth.
6. Utilizing the back azimuth, draw a line on the map from the known point back towards your unknown position which extends beyond the estimated distance of the unknown position.
7. Repeat steps 3 through 6.
8. Determine the grid coordinates of the unknown position on the map where the lines cross.

**EXTERNAL SUPPORT**

1. Maneuver/Training area

**RELATED ITS**

365                      367                      368                      373

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 380**

Select a route utilizing a topographic map

**Condition:** Given a 5 paragraph order, topographical map, protractor, and map pen.

**Standard:** By maximizing utilization of terrain and vegetation to avoid detection.

**PERFORMANCE STEPS**

1. Analyze the mission.
2. Analyze the enemy disposition.
3. Analyze troops and fire support availability.
4. Analyze key terrain features.
5. Analyze terrain with respect to observation and fields of fire.
6. Analyze terrain with respect to cover and concealment.
7. Analyze terrain with respect to obstacles.
8. Determine danger areas.
9. Analyze terrain with respect to avenues of approach.
10. Analyze the effects of weather.
11. Analyze time and distance requirements.
12. Analyze logistical support requirements.
13. Determine checkpoints to facilitate control of movement.

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14. Determine steering marks to facilitate control of navigation.

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
- 

**EVENT: 0331 - 1 - 381**

Construct a map overlay

**Condition:** Given a 5 paragraph order, topographical map, protractor, overlay material, and map pen.

**Standard:** Which contains each of the required items.

**PERFORMANCE STEPS**

1. Orient the overlay to the area of operation.
2. Place register marks on the overlay.
3. Plot topographical deviations to the map.
4. Plot mission control measures.
5. Plot fire support control measures.
6. Plot unit symbols.
7. Plot weapons and equipment symbols.
8. Annotate title and objective.
9. Annotate time and date.
10. Annotate map reference.
11. Annotate author.
12. Annotate legend.
13. Annotate security classification.
14. Annotate additional information.
15. Submit copy to higher headquarters.

**REFERENCES**

1. FM 21-26 Map Reading and Land Navigation
  2. MCRP 5-12A Operational Terms and Graphics
- 

**EVENT: 0331 - 1 - 382**

Estimate range

**Condition:** Given a target.

**Standard:** To an accuracy of 50 meters.

**PERFORMANCE STEPS**

1. Using map, knowing current grid location.
2. Apply 100 meter increments from current location to target.
3. Determine the size of objects.

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4. Use the bracketing method, applying known distances to adjacent objects.
5. Use an established range card.
6. Use optics (binoculars and M40 rifle telescope only).

### ADMINISTRATIVE INSTRUCTIONS

1. Any single or combination of methods can be used to estimate the range.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### RELATED ITS

368

### REFERENCES

1. FM 6-30 Observed Fire Procedures
- 

### **EVENT: 0331 - 1 - 418**

Communicate using hand and arm signals

**Condition:** Given a command or situation, while wearing a fighting load.

**Standard:** By performing each of the signals correctly.

### PERFORMANCE STEPS

1. Execute the hand-and-arm signal for DECREASE SPEED by extending the arm horizontally sideward, palm to the front. Wave the arm downward several times, keeping the arm straight, without moving the arm above the horizontal.
2. Execute the hand-and-arm signal for CHANGING DIRECTION OR COLUMN (RIGHT OR LEFT) by raising the hand that is on the side toward the new direction across the body, palm to the front. Then swing the arm in a horizontal arc, extending the arm and hand to point in the new direction.
3. Execute the hand-and-arm signal for ENEMY IN SIGHT by holding the rifle horizontally, with the stock in the shoulder, the muzzle pointing in the direction of the enemy, aiming in on the enemy.
4. Execute the hand-and-arm signal for RANGE by extending the arm fully toward the leader of men for whom the signal is intended with the fist closed, exposing one finger for each 100 meters in range.
5. Execute the hand-and-arm signal for COMMENCE FIRING by extending the arm in front of the body, hip high, palm down. Move it through a wide horizontal arc several times.
6. Execute the hand-and-arm signal for FIRE FASTER by executing the commence firing signal rapidly.
7. Execute the hand-and-arm signal for FIRE SLOWER by executing the commence firing signal slowly.
8. Execute the hand-and-arm signal for CEASE FIRING by raising the hand in front of the forehead, palm to the front. Swing the hand and forearm up and down several times in front of the face.

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9. Execute the hand-and-arm signal for ASSEMBLE by raising the hand vertically to the full extent of the arm, fingers extended and joined, palm to the front. Wave in large horizontal circles with the arm and hand.
10. Execute the hand-and-arm signal for FORM COLUMN by raising either arm to the vertical position. Drop the arm to the rear, describing complete circles in a vertical plane parallel to the body. The signal may be used to indicate either a troop or vehicular column.
11. Execute the hand-and-arm signal for ARE YOU READY/I AM READY by extending the arm toward the leader for whom the signal is intended, hand raised, fingers extended and joined. Then raise the arm slightly above horizontal, palm facing outward.
12. Execute the hand-and-arm signal for ATTENTION by extending the arm sideways, slightly above horizontal, palm to the front. Wave toward and over the head several times.
13. Execute the hand-and-arm signal for SHIFT by pointing to individuals or units concerned and beating on the chest simultaneously with both fists. Then point to location you desire them to move.
14. Execute the hand-and-arm signal for ECHELON RIGHT/LEFT by either facing towards or away from the unit. Extend one arm 45 degrees below the horizontal, palms to the front. The lower arm indicates the direction of echelon.
15. Execute the hand-and-arm signal for SKIRMISHERS (FIRE TEAM)/ LINE FORMATION (SQUAD) by raising both arms lateral until horizontal, arms and hands extended, palms down. If it is necessary to indicate direction, move in the desired direction at the same time. When signaling for fire team skirmishers, indicate skirmishers right or left by moving the appropriate hand up and down.
16. Execute the hand-and-arm signal for WEDGE by extending both arms downward and to the side, at an angle of 45 degrees below horizontal, palms to the front.
17. Execute the hand-and-arm signal for VEE by extending arms at an angle of 45 degrees above horizontal forming the letter V with arms and torso.
18. Execute the hand-and-arm signal for FIRE TEAM by placing the right arm diagonally across chest, palm down, fingers extended and joined.
19. Execute the hand-and-arm signal for SQUAD by extending the hand and arm toward the Squad Leader, palm down. Distinctively move the hand up and down several times from the wrist, holding the arm steady.
20. Execute the hand-and-arm signal for PLATOON by extending both arms forward, palms down, toward the leader or unit for whom the signal is intended, and describing large vertical circles with hands.
21. Execute the hand-and-arm signal for CLOSE UP by starting with both arms extended sideward, palms forward. Bring palms together in front of the body momentarily. When repetition of this signal is necessary, the arms are returned to the starting position by movement along the front of the body.
22. Execute the hand-and-arm signal for OPEN UP, EXTEND by starting with arms extended in front of the body, palms together. Bring arms to the horizontal position at the sides, palms forward. When repetition of this signal is necessary, the arms are returned along the side of the body to the starting position and the signal is repeated.

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23. Execute the hand-and-arm signal for DISPERSE by extending either arm vertically overhead. Wave the hand and arm to the front, left, right and rear, palm toward the direction of each movement.
24. Execute the hand-and-arm signal for LEADERS JOIN ME by extending an arm towards the leaders and beckoning leaders by curling the index finger.
25. Execute the hand-and-arm signal for I DO NOT UNDERSTAND by facing toward the source of the signal. Raise both arms sideward to the horizontal at hip level, bend both arms at elbows, palms up, and shrug shoulders in manner of the universal I don't know.
26. Execute the hand-and-arm signal for FORWARD, ADVANCE, TO THE RIGHT (LEFT), TO THE REAR (USED WHEN STARTING FROM THE HALT) by facing and moving in the desired direction of march. At the same time extend an arm horizontally to the rear. Then swing it overhead and forward in the direction of the movement until it is horizontal, palm down.
27. Execute the hand-and-arm signal for HALT by carrying the hand to the shoulder, palm to the front. Then thrust the hand upward vertically to the full extent of the arm, and hold it in that position until the signal is understood.
28. Execute the hand-and-arm signal for FREEZE by making the signal for HALT and making a fist with the hand.
29. Execute the hand-and-arm signal for DISMOUNT/DOWN/TAKE COVER by extending an arm sideward at an angle of 45 degrees above horizontal, palm down, and lowering it to side. Both arms may be used in giving this signal.
30. Execute the hand-and-arm signal for MOUNT by extending the hand downward at the side with the palm out. Raise arm sideward and upward to an angle of 45 degrees above horizontal.
31. Execute the hand-and-arm signal for DISREGARD PREVIOUS COMMAND/AS YOU WERE by facing the unit or individual being signaled. Raise both arms and cross them over your head, palms to the front.
32. Execute the hand-and-arm signal for RIGHT (LEFT) FLANK by extending both arms in the direction of movement.
33. Execute the hand-and-arm signal for INCREASE SPEED/DOUBLE TIME by carrying the hand to the shoulder, fist closed. Rapidly thrust the fist upward vertically to the full extent of the arm and back to the shoulder several times. This signal is also used to increase gait or speed.
34. Execute the hand-and-arm signal for HASTY AMBUSH RIGHT (LEFT) by raising fist to shoulder level and thrusting it several times in the desired direction.
35. Execute the hand-and-arm signal for RALLY POINT by touching the belt buckle with one hand and then pointing to the ground.
36. Execute the hand-and-arm signal for OBJECTIVE RALLY POINT by touching the belt buckle with one hand, pointing to the ground, and making a circular motion with the hand.
37. Execute the hand-and-arm signal for PACE COUNT by tapping the right boot heel with the right hand.
38. Execute the hand-and-arm signal for HEAD COUNT by patting the top of your head with your hand.
39. Execute the hand-and-arm signal for DANGER AREA by drawing the right hand, palm down, across the neck in a throat-cutting motion from left to right.

**REFERENCES**

1. FMFM 6-5 Marine Rifle Platoon/Squad
  2. FM 21-60 Visual Signals
- 

**EVENT: 0331 - 1 - 419**

Communicate using a TA-1 field telephone

**Condition:** Given an SL-3 complete TA-1 field telephone, and communication wire connected to a distant site.

**Standard:** By transmitting a properly formatted message.

**PERFORMANCE STEPS**

1. Strip approximately 1 inch of insulation from the ends of the 2 wires in the line to be connected.
2. Fold back the stripped wires about ½ inch from the end.
3. Push down one of the binding posts. Insert the bare end of one wire into the binding post slot, and release the post.
4. Ensure the wire is securely clamped.
5. Repeat steps 3 and 4 with the other wire inserted into the other binding post.
6. Adjust the ringer volume in accordance with tactical situation.
7. Ring the distant site.
8. Transmit a properly formatted message.

**REFERENCES**

1. TM 11-5805-243-13 Operator's Unit and Intermediate Direct Support Maintenance Manual for Telephone Set TA-1/PT
- 

**EVENT: 0331 - 1 - 420**

Communicate using a TA-312 field telephone

**Condition:** Given an SL-3 complete TA-312 field telephone, and communication wire connected to a distant site.

**Standard:** By transmitting a properly formatted message.

**PERFORMANCE STEPS**

1. Ensure the selector switch is set to the proper position for the service being used.
2. Strip approximately 1 inch of insulation from the ends of the 2 wires in the line to be connected.
3. Fold back the stripped wires about a ½ inch from the end.
4. Push down one of the binding posts. Insert the bare end of one wire into the binding post slot, and release the post.
5. Ensure the wire is securely clamped.
6. Repeat steps 4 and 5 with the other wire inserted into the other binding post.

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7. Remove the hand set from the retaining cradle, and open the carrying case retaining strap.
8. Open the battery compartment cover.
9. Insert 2 BA-30 batteries.
10. Close and lock compartment cover.
11. Ring the distant site.
12. Transmit a properly formatted message.

### REFERENCES

1. TM 11-5805-201-12 Telephone Sets TA-312/PT and TA-312A
- 

### **EVENT: 0331 - 1 - 423**

Communicate using a AN/PRC-119 field radio in single channel mode

**Condition:** Given an SL-3 complete AN/PRC-119 field radio and a distant site, while wearing a fighting load.

**Standard:** By transmitting a properly formatted message.

### PREREQUISITES

0331 - 2 - 421

### PERFORMANCE STEPS

1. Place battery in battery box, and mate connectors.
2. Close battery box cover, and secure using latches.
3. Screw the whip antenna into the antenna base, and hand tighten.
4. Mate the antenna base with the RT ANT connector and hand tighten.
5. Connect the handset connector to the AUD/DATA connector, by ensuring the keys of the handset connector and the AUD/DATA connector are aligned. Then push the handset connector onto the AUD/DATA connector and twist clockwise to lock into place.
6. Obtain an authorized operating frequency.
7. Set the Function switch to LD.
8. Set the Mode switch to SC.
9. Set the COMSEC switch to PT.
10. Set CHAN switch to MAN, CUE, or desired channel where frequency is to be stored.
11. Press the FREQ button on the keyboard.
12. Press the CLR button on the keyboard.
13. Enter the numbers of the new frequency, using the keyboard buttons.
14. Press the STO button on the keyboard.
15. Repeat steps 1 through 8 for additional frequencies that are required.
16. Set FCTN switch SQ ON for normal operating procedures.
17. Adjust the VOL control to set the loudness of the received signal.
18. Transmit a properly formatted message.

INFANTRY T&R MANUAL

RELATED ITS

421

REFERENCES

1. TM 11-5820-890-10-1 Operator's manual, SINCGARS Ground Combat Net Radio, ICOM
- 

**EVENT:** 0331 - 1 - 425

Waterproof communication gear

**Condition:** Given a radio, tape, water-proof bag, and scissors.

**Standard:** To enable radio operations regardless of weather conditions.

PREREQUISITES

0331 - 2 - 421

PERFORMANCE STEPS

1. Place waterproofing tape over all sharp edges that may punch holes in the waterproof cover on the radio.
2. Take 4 units of desiccant and tape them to the sides of the radio.
3. Cut the corners off of the sealed end of the waterproof bag.
4. Place radio inside of waterproof bag. Cut off corners should match where the antenna and handset are placed on the radio.
5. Attach antenna and hand set to radio. Cut four 12 inch strips of waterproof tape. Where the antenna and handset pass through the holes in the waterproof bag, bunch the excess material around the base of the connectors and use the 12 inch strips of tape to seal them.
6. Cut a flap in the top of the waterproof bag to allow access to the controls on the face of the radio. Cover the edges of the flap with waterproof tape (1 inch wide strips). Cover the top of the flap's edges with waterproof tape so it will make contact with the bottom edges of the waterproof material.
7. Pull the waterproof bag straight down and seal the bottom with tape. Use the excess end of the waterproof bag as a flap. This will allow access to the radio battery.

RELATED ITS

421

422

REFERENCES

1. TM 11-5820-890-10-1 SINCGARS Ground Combat Net Radio, ICOM
- 

**EVENT:** 0331 - 1 - 431

Report information

**Condition:** Given an area to observe, while wearing a fighting load.

**Standard:** By reporting any activity in the assigned area.

**PERFORMANCE STEPS**

1. Select a position which provides cover and concealment, and good observation of the assigned area. If observing from a building, keep back from doors and windows.
2. Avoid any unnecessary movement.
3. Observe for tracks or signs of enemy presence or movement, such as vacated positions, discarded items, and personnel or vehicle tracks.
4. Be alert for movement, objects, sounds, and smells that are not appropriate to the surroundings.
5. During daylight, use the strip method to begin observing close to your position. Search a narrow strip 50 meters deep from right to left. Then observe a similar strip farther away but overlapping the first, from left to right. Continue until the entire field of view is observed. Then repeat.
6. During darkness or limited visibility, search the horizon with short, jerky movements and short pauses. Then look a little to one side of an object and then to the other side in order to better observe detected objects.
7. Report who, where, when, and what was observed. Include enemy strength, enemy activity, enemy location, enemy unit, time observed, and enemy weapons, and equipment.

**REFERENCES**

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT:** 0331 - 1 - 438

Evaluate a casualty

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By stabilizing the casualty and determining the injury(ies).

**PERFORMANCE STEPS**

1. Check the casualty for a response by gently shaking or tapping and asking the casualty questions.
2. Check the airway. If the casualty is not breathing, clear the airway and start rescue breathing.
3. Check for pulse. If a pulse is not present, start cardiopulmonary resuscitation.
4. Check for bleeding by looking for spurts of blood or blood-soaked clothes. Also check for an entry and exit wound. If the casualty is bleeding from an open wound, stop the bleeding.
5. Control shock.
6. Check for neck, back injuries, and fractures.
7. Check for burns.
8. Check for possible head injury.
9. Check for climatic injuries.
10. Seek medical aid.

**REFERENCES**

1. FMFRP 4-52 First Aid
- 

**EVENT: 0331 - 1 - 440**

Perform rescue breathing

**Condition:** Given an unconscious casualty who has a pulse, but is not breathing; while wearing a fighting load.

**Standard:** By starting the casualty's breathing.

**PERFORMANCE STEPS**

1. Evaluate the casualty.
2. Open the airway.
3. Check for breathing again.
4. If the casualty still is not breathing, pinch the nostrils with the thumb and forefinger of the upper hand while maintaining pressure on the forehead to keep the head tilted.
5. Take a deep breath, and make a tight seal around the casualty's mouth or nose, if required.
6. Breathe into the casualty's mouth for 1 to 1½ seconds.
7. Allow the casualty's lungs to deflate. Give a second breath.
8. Watch for the chest to rise and fall.
9. If the casualty's chest does not rise and fall, reposition the casualty's head and repeat steps 4 through 8.
10. If the casualty's chest still does not rise and fall, check for a blocked airway.
11. Clear the blocked airway with abdominal thrusts or finger sweeps and repeat steps 4 through 8.

**REFERENCES**

1. FMFRP 4-52 First Aid
- 

**EVENT: 0331 - 1 - 441**

Perform Cardiopulmonary Resuscitation (CPR)

**Condition:** Given an unconscious casualty who is not breathing and has no pulse, while wearing a fighting load.

**Standard:** By keeping oxygenated blood flowing through the casualty's body.

**PERFORMANCE STEPS**

1. Evaluate the casualty.
2. Open the airway.
3. Move your hand that is closest to the casualty's legs to his chest.
4. Run your index and middle fingers up the lower edge of the casualty's rib cage.

## INFANTRY T&R MANUAL

5. Locate the notch at the bottom center of the casualty's rib cage.
6. Keep your middle finger in this notch and your index finger on the sternum/breast bone.
7. Place the heel of your hand closest to the casualty's head on the sternum next to, but not covering, your index finger.
8. Place your other hand on top of your hand that is on the casualty's chest.
9. Bend from your hips, with your arms extended and locked, and compress the casualty's chest with your upper body weight falling straight down from the shoulders.
10. Depress the sternum 1½ to 2 inches.
11. Give 15 compressions at the rate of 80 to 100 compressions per minute.
12. Give 2 rescue breaths.
13. Check the pulse and breathing after 1 minute (every 4th cycle).
14. Seek medial aid and continue CPR until a pulse returns or medical aid arrives.
15. If the casualty regains a pulse, continue rescue breathing until breathing resumes or medical aid arrives.

### RELATED ITS

440

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 442**

Apply a pressure dressing

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By stopping the bleeding.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Locate wound.
3. Expose the wound, if the situation permits.
4. Retrieve casualty's field dressing.
5. Apply the field dressing.
6. Place a padding of any clean, bulky material on top of the field dressing, directly over the wound. A second field dressing may be used.
7. Place an improvised dressing or cravat over the padding.
8. Wrap the ends tightly around the injured limb, covering the field dressing.
9. Tie the ends together in a non-slip knot.
10. Apply up to 3 pressure dressings. If bleeding continues, or the limb is severed, apply a tourniquet.

INFANTRY T&R MANUAL

11. Watch for conditions requiring basic life support actions.
12. Seek medical aid.

**REFERENCES**

1. FMFRP 4-52 First Aid
- 

**EVENT: 0331 - 1 - 443**

Apply a tourniquet

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By stopping the bleeding.

**PERFORMANCE STEPS**

1. Evaluate the casualty.
2. Select suitable material to be used as a tourniquet.
3. Apply the tourniquet between the wound and heart.
4. Place the tourniquet 2 to 4 inches above the injury, not over the wound or fracture.
5. Tie an overhand knot and place a short, strong object, like a stick, on top of the knot.
6. Tie another knot over the stick.
7. Twist the stick to stop the bright red bleeding, and line the stick up with the arm or leg.
8. Secure the stick so it does not unwind and no further injury results.
9. Mark the casualty with the letter T, time, and date on the casualty's forehead.
10. Do not loosen or remove the tourniquet, unless directed by a trained medical person.
11. Keep the tourniquet visible.
12. Watch for conditions requiring basic life support actions.
13. Seek medical aid immediately.

**REFERENCES**

1. FMFRP 4-52 First Aid
- 

**EVENT: 0331 - 1 - 444**

Perform first aid for a head wound

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By protecting the wound.

**PERFORMANCE STEPS**

1. Evaluate the casualty's level of consciousness.
2. Watch for conditions requiring basic life support actions.

## INFANTRY T&R MANUAL

3. Apply the casualty's field dressing over the wound, without covering the eyes or ears.
4. In the absence of shock, elevate the head slightly to help decrease pressure.
5. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 445**

Perform first aid for a chest wound

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By protecting the wound.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Watch for conditions requiring basic life support actions.
3. Check for an entry and exit wound.
4. Expose the wound.
5. Make a seal over the wound with the plastic wrapper from the casualty's field dressing or any other clean material by placing the seal directly over the wound, as the casualty breathes out.
6. Apply the casualty's field dressing to the wound.
7. Position the casualty on his injured side.
8. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 446**

Perform first aid for an abdominal wound

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By protecting the wound.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Watch for conditions requiring basic life support actions.
3. Prevent further exposure of internal organs.
4. Place the casualty on his back, if possible.
5. Flex the casualty's knees to relieve internal pressure.
6. Use the casualty's field dressing wrapper to cover the wound.
7. Apply the casualty's field dressing to the wound, without applying pressure.

## INFANTRY T&R MANUAL

8. Tie the casualty's legs together, if possible.
9. Moisten the casualty's field dressing.
10. Pick up any organs that may be on the ground with the cleanest material available.
11. Place the organs on top of the casualty's stomach and keep moist.
12. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 447**

Perform first aid for a burn

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By protecting the wound.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Eliminate source of the burn.
3. Identify type of burn.
4. Expose the burn.
5. Apply field dressing to the burn, without placing dressing over face/genital area, breaking blisters, or placing ointment/grease on burn.
6. Watch for conditions requiring basic life support actions.
7. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 448**

Splint a fracture

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By immobilizing the affected limb.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Watch for conditions requiring basic life support actions.
3. Gather materials to be used as a splint that will reach beyond the joints above and below the fracture.
4. Check the circulation below the injury site.
5. Apply the splint to immobilize the joints above and below the fracture, using padding between the injured part and the splint.
6. Secure the splint to the injured part with swathes at several points, without cutting off circulation.

## INFANTRY T&R MANUAL

7. Tie non-slip knots above and below the fracture, not across the fracture, and tie knots on the side away from the casualty.
8. Immobilize the injured part by supporting with slings or swathes.
9. Check the circulation below the injury site.
10. Remove jewelry, so possible swelling will not cause further injury. Keep personal items with the casualty.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 449**

Perform first aid for heatstroke

**Condition:** Given a heatstroke casualty, while wearing a fighting load.

**Standard:** By reversing the effects of the injury.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Move casualty to a cool, shady area.
3. Loosen or remove outer garments and protective clothing, if the situation permits.
4. Immerse the casualty in cool water, if possible, or massage the arms and legs with cool water.
5. Pour cool water on the casualty and fan briskly, to permit coolant effect of evaporation.
6. Give the casualty one full canteen of water to drink slowly, if the casualty is conscious.
7. Perform any lifesaving measures, as required.
8. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 450**

Perform first aid for frostbite

**Condition:** Given a frostbite casualty, while wearing a fighting load.

**Standard:** By reversing the effects of the injury.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Keep the casualty warm. Do not rub the injured part with snow or apply cold water soaks.
3. Gently re-warm the affected part(s) with body heat. Do not warm the part by massage or expose to open fire. Do not use ointments or other medications.

## INFANTRY T&R MANUAL

4. Decrease constricting clothing and increase circulation. Do not do anything to the part to increase circulation. Do not allow the casualty to have alcohol or tobacco.
5. Protect the part from additional injury.
6. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 451**

Perform first aid for a snakebite

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By reducing the effects of the venom.

### PERFORMANCE STEPS

1. Get the casualty away from the snake.
2. Evaluate the casualty.
3. Remove all rings and bracelets from the affected extremity.
4. Reassure the casualty and keep calm.
5. Place an elastic wrap firmly around the site of the bite, if available.
6. Apply light constricting band(s) about 1 to 2 inches away from the bite or at the edge of the swelling as an alternative to the elastic wrap. You should be able to insert a finger between the band and skin. Do not use a tourniquet.
7. Immobilize affected body part in position below the heart.
8. Kill the snake, if possible, and send it with the casualty.
9. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 452**

Perform a one-man fireman carry

**Condition:** Given a casualty, while wearing a fighting load.

**Standard:** By removing the casualty from immediate harm.

### PERFORMANCE STEPS

1. Evaluate the casualty.
2. Treat the casualty, as required.
3. Roll casualty onto his abdomen.
4. Straddle the casualty.
5. Extend your hands under the casualty's chest.

## INFANTRY T&R MANUAL

6. Lift the casualty to his feet.
7. Support the casualty with your left arm.
8. Raise the casualty's right arm.
9. Pass your head under the casualty's raised arm.
10. Face the casualty, and secure your arms around him.
11. Spread the casualty's legs 6 to 8 inches apart.
12. Raise the casualty's right arm over your head.
13. Bend at the waist and knees.
14. Pull the casualty's arm over and down your left shoulder, bringing the casualty's body across your shoulders.
15. Pass your right arm between the casualty's legs.
16. Grasp the casualty's right wrist with your right hand.
17. Stand up.
18. Relocate the casualty to an area which presents no immediate harm.
19. Seek medical aid.

### REFERENCES

1. FMFRP 4-52 First Aid
- 

### **EVENT: 0331 - 1 - 458**

Perform operator maintenance for an M40 field protective mask with hood

**Condition:** Given an M40 field protective mask with hood, a bristle brush, cheesecloth, and a clean, soft rag.

**Standard:** In accordance with TM 3-4240-339-10.

### PERFORMANCE STEPS

1. Inspect the canister for cracks, dents, or holes.
2. Ensure canister air intake is not clogged with dirt.
3. Inspect for damaged threads on the canister.
4. Shake the canister, and listen for signs of loose absorbent particles.
5. Remove ousters from the face piece and check eye lenses for cracks, cuts, scratches, or discoloration that affects vision.
6. Inspect eye rings for discoloration or corrosion.
7. Inspect both sets of ousters for cracks, chips, or discoloration that affect vision.
8. Inspect the rubber rings for tears, looseness, brittle spots, soft or sticky spots, or cracked rims.
9. Remove the hood from the face piece.
10. Inspect the hood for cuts, holes, tears, sticky or gummy area, and peeled or worn coating.
11. Inspect the straps, cord, and hardware for presence, fraying, or damage.
12. Inspect the zipper for tears, breaks, or inoperability.

INFANTRY T&R MANUAL

13. Inspect for loose stitching on hook and pile fasteners, or dirt in hook and pile fasteners.
14. Inspect the inside of the face piece for dirt, mud, greasy, or oily substances.
15. Inspect face piece for holes, tears, and splits by holding in front of a light source.
16. Inspect the face piece for soft or sticky spots.
17. Inspect the silicone rubber next to the eye lenses to be sure the eye lenses will not pull away from the face piece. Check face piece housing to ensure silicone is not pulling away.
18. Put on the face piece and check the head harness for loss of elasticity.
19. Inspect harness straps for cuts, tears, missing parts, or deterioration, such as mildewing or fraying.
20. Inspect the head harness buckles for bends, cracks, chips, corrosion, or missing buckles. Pull on the head harness straps and ensure the buckles hold the straps tight.
21. Grasp the tab at the bottom of the outlet valve cover, and lift the bottom portion of the outlet valve cover.
22. Ensure the outlet valve disk is present and is not curled or distorted. Rotate the outlet valve disk to ensure it is not sticking.
23. Ensure the outlet valve disk is present and is not curled or distorted. Rotate the outlet valve disk to ensure it is not sticking.
24. Inspect the outlet valve disk for nicks or rips. Wipe off any moisture with clean cheesecloth.
25. Inspect outlet valve seat for dirt.
26. Inspect outlet valve cover for cuts, tears, moisture, or holes. Wipe off any moisture with a soft, dry cloth.
27. Inspect the internal drink tube and external drink tube for presence, cracks, or cuts.
28. Inspect internal drink tube for proper alignment.
29. Inspect external drink tube for solid connection.
30. Inspect the internal and external drink tube for clogs by connecting an M1 canteen cap and blowing air through the system.
31. Inspect the drinking system for leaks.
32. Ensure the airflow deflector is securely mounted inside the face piece and that both flanges are in the mounting holes of the face piece and are not broken.
33. Check the mounting holes for cuts or tears.
34. Ensure the inlet valve disk and valve body are present and properly mounted on the post of the airflow deflector.
35. Blow on the inlet valve disk to ensure it is not stuck to the valve body.
36. Inspect the inlet valve disk for cuts, holes, tears, or dirt.
37. Ensure the nose cup and nose cup valve seats are free of dirt.
38. Inspect the nose cup for cracks, cuts, or holes.

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39. Ensure the nose cup is not pulled away from the back of the front voicemitter housing. Gently try to pull the nose cup away from the front voicemitter housing to ensure nose cup is held securely.
40. Ensure the nose cup valve disks are present and not curled or torn. Rotate the nose cup valve disk to ensure they are not stuck.
41. Ensure the nose cup valve disks are seated on the inside of the nose cup.
42. Inspect retaining rings on the front voicemitter and side voicemitter for corrosion, cracks, or nicks. Attempt to tighten the retaining rings by hand to check for looseness.
43. Inspect front voicemitter and side voicemitter for dents, cracks, or punctures. Ensure the 4 beads in the center of each voicemitter are facing outward.
44. Empty the carrier and check for dirt, sharp edges, torn straps, or missing hardware.
45. Inspect carrier for mildew, solvents, abrasive materials, or broken stitches.
46. Inspect carrier hook and pile fasteners for dirt. Ensure they are secure on the flap. If dirty, clean with a stiff bristle brush.
47. Inspect the waterproof bag for cracks, tears, holes, and brittleness.
48. Ensure the waterproof bag rubber bands are not sticky, broken, or brittle.
49. Inspect optical inserts for broken lens, frame, or disconnection from face piece.

### REFERENCES

1. TM 3-4240-339-10 Operator's Manual for Chemical-Biological Mask, M40
- 

### **EVENT: 0331 - 1 - 459**

Don an M40 field protective mask with hood

**Condition:** Given an M40 field protective mask with hood and carrier, while wearing a fighting load.

**Standard:** By donning and clearing the mask within 9 seconds and adjusting the hood within 15 seconds of an NBC alarm.

### PERFORMANCE STEPS

1. Recognize a biological or chemical alarm.
2. Stop breathing and close eyes.
3. Take off helmet.
4. Take off glasses.
5. Open carrier with left hand and hold it open.
6. With right hand, grasp face piece and remove from carrier.
7. Put chin in the chin pocket.
8. Cover the openings at the bottom of the outlet valve with the palm of one hand.

## INFANTRY T&R MANUAL

9. Breathe out hard so the air escapes around the edges of the face piece.
10. With the palm of the hand, cover the inlet port of the canister and breathe in. The face piece should collapse against the face and remain so while the breath is held.
11. Using the tab, pull head harness over the head.
12. Hold the face piece with one hand and tighten the cheek straps.
13. Clear the face piece again, and check for leaks.
14. Resume breathing.
15. Grasp the back edge of the hood skirt and carefully pull the hood over the head, ensuring the hood covers the head, neck and shoulders.
16. Pull slider downward, and zip front closed.
17. Tighten cord.
18. Adjust the length of the underarm straps, and attach hook and pile fasteners.
19. Put on helmet.
20. Close carrier.
21. Shout "Gas, gas, gas" as loudly as possible.
22. Extend both arms horizontally, sideways, with double fists facing up.
23. Move fists rapidly to head and back to the horizontal position.

### REFERENCES

1. TM 3-4240-339-10 Operator's Manual for Chemical-Biological Mask, M40
- 

### **EVENT: 0331 - 1 - 460**

Drink from a canteen while wearing an M40 field protective mask with hood

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** Without becoming a casualty.

### PREREQUISITES

0331 - 1 - 459

### PERFORMANCE STEPS

1. Push in on the top of the outlet valve with your finger.
2. Grasp the internal drink tube between your teeth, taking care not to break the face piece seal.
3. Steady the face piece.
4. Pull the quick disconnect coupling out of the outlet valve cover.
5. Remove the canteen from the canteen carrier.
6. Check the quick disconnect coupling and canteen cap for contamination, using M8 detector paper.
7. If the canteen is contaminated, decontaminate the exterior using the M258A1 decontamination kit.

## INFANTRY T&R MANUAL

8. Recheck the canteen with M8 detector paper.
9. Flip open the cover on the M1 canteen cap.
10. Push the quick disconnect coupling into the M1 canteen cap so the pin enters the quick disconnect coupling.
11. Blow to create positive pressure. You should feel some resistance. If resistance is not felt, your drinking system is leaking. Do not try to drink.
12. Take several swallows of water from the canteen, if it doesn't leak, by raising and inverting the canteen.
13. Equalize pressure in the canteen after several swallows by lowering the canteen and blowing into the internal drink tube to prevent the canteen from collapsing.
14. Blow into the internal drink tube.
15. Turn the canteen upright.
16. Blow into the internal drink tube.
17. Pull the quick disconnect coupling out of the canteen.
18. Detach the canteen by grasping the quick disconnect coupling firmly and pulling the canteen down and away to disconnect the coupling.
19. Check your face piece for leaks.
20. Remove the internal drink tube from your mouth.
21. Push the quick disconnect coupling back into the pocket on the face piece.
22. Flip down the cover on the M1 canteen cap before stowing.

### RELATED ITS

459

### REFERENCES

1. TM 3-4240-339-10 Operator's Manual for Chemical-Biological Mask, M40
- 

### **EVENT: 0331 - 1 - 461**

Don personal protective equipment to MOPP Level 4

**Condition:** Given an order to assume each MOPP level, chemical protective over-garments, chemical protective boots, an M40 field protective mask with hood and carrier, M8 or M9 chemical detection paper, and rubber gloves.

**Standard:** By donning the equipment required for each MOPP level.

### PERFORMANCE STEPS

1. Don the over-garment and attach M8 or M9 chemical detection paper to the over-garments to achieve MOPP 1. The over-garment blouse may be left unbuttoned in hot weather.
2. Don the overboots with trousers closed to achieve MOPP 2. The over-garment blouse may be left unbuttoned in hot weather.
3. Don the M40 field protective mask with hood to achieve MOPP 3. The over-garment blouse may be left unbuttoned in hot weather. The field protective mask hood may be rolled up in hot weather.

INFANTRY T&R MANUAL

4. Don the rubber gloves, button closed the over-garment blouse, and roll down and adjust the field protective mask hood to assume MOPP 4.

**EXTERNAL SUPPORT**

1. MOPP suits / NBC equipment

**RELATED ITS**

459

**REFERENCES**

1. FM 3-4 NBC Protection
- 

**EVENT: 0331 - 1 - 462**

Perform individual decontamination

**Condition:** Given an M291 Skin Decontamination kit (SDK), an M295 Individual Equipment Decontamination Kit (IEDK), and an M40 field protective mask hood and carrier, while wearing a fighting load.

**Standard:** In accordance with MCWP 3-37.3.

**PREREQUISITES**

0331 - 1 - 461

**PERFORMANCE STEPS**

1. Don and clear an M40 field protective mask with hood.
2. Seek overhead cover or use a poncho for protection against further contamination.
3. Remove 1 M291 SDK packet from the carrying pouch.
4. Tear the M291 SDK packet open at the notch. Remove applicator pad, and discard empty packet.
5. Unfold the M291 SDK applicator pad and slip finger(s) into the handle.
6. Thoroughly scrub exposed skin on one hand until completely covered with black powder from the M291 SDK applicator pad.
7. Switch the applicator pad to the other hand and repeat step 6. Do not discard the pad when finished.
8. If unmasked when contaminated, stop breathing. Remove mask, and thoroughly scrub exposed skin of face until completely covered with black powder, using the same M291 SDK applicator pad that was used on the hands.
9. Use a second M291 SDK applicator pad to thoroughly scrub exposed skin of the neck and ears until completely covered with black powder.
10. If masked without the hood zipped and drawstrings pulled tight when contaminated, thoroughly scrub exposed skin of the neck and ears until completely covered with black powder, using the same M291 SDK applicator pad that was used on the hands.
11. Redo hands until completely covered with black powder.
12. Put on protective gloves.



## INFANTRY T&R MANUAL

11. Carefully remove the auto-injector from the injection site.
12. Place the used atropine injector carefully between the little finger and the ring finger of the hand that is holding the remaining auto-injector and the clip.
13. Pull the 2 PAM Cl injector out of the clip and inject it in the same manner as steps 6 to 11.
14. If symptoms continue, seek buddy aid to administer additional sets of injections.

### REFERENCES

1. FMFM 11-11 Treatment of Chemical Agent Casualties and Conventional Military Chemical Injuries
- 

### **EVENT: 0331 - 1 - 464**

React to a nuclear attack without warning

**Condition:** Given an individual weapon, while wearing a fighting load.

**Standard:** In accordance with FM 3-4.

### PERFORMANCE STEPS

1. Immediately drop facedown, head away from the explosion.
2. Close eyes.
3. Protect exposed skin from heat by putting hands and arms under or near the body.
4. Remain facedown until the blast wave passes and debris stops falling.
5. Check for injury.
6. Check for individual weapons and equipment damage.

### REFERENCES

1. FM 3-4 NBC Protection
- 

### **EVENT: 0331 - 1 - 471**

Operate a High Mobility Multipurpose Wheeled Vehicle (HMMWV)

**Condition:** Given an SL-3 complete HMMWV, NAVMC 10627, and TM 9-2320-280-10.

**Standard:** In accordance with TM 9-2320-280-10.

### PERFORMANCE STEPS

1. Ensure the dispatcher has filled out the appropriate blocks on the NAVMC 10627.
2. Sign the "1st Operator" signature block on the NAVMC 10627.
3. Perform before operations checks listed at the bottom of the NAVMC 10627.
4. Ensure the hand brake is applied and the transmission is in the NEUTRAL position.

## INFANTRY T&R MANUAL

5. Place the rotary switch into the RUN position ensuring the WAIT TO START lamp comes on.
6. Wait 9 seconds to ensure the WAIT TO START lamp goes out.
7. Start the engine by placing the rotary switch into the START position, and release once the engine starts.
8. Fill out the appropriate information in the Trip Log on the NAVMC 10627.
9. Select transmission and transfer case gear.
10. Release the hand brake, and place the vehicle in motion for forward or reverse movement.
11. Safely drive the vehicle, complying with traffic regulations.
12. Perform during operations checks listed at the bottom of the NAVMC 10627.
13. Upon completion of driving the vehicle, engage the hand brake. Place the transmission lever into the NEUTRAL position.
14. Turn the rotary switch to the STOP position.
15. Fill out the appropriate information in the Trip Log on the NAVMC 10627.
16. Perform after operations checks listed at the bottom of the NAVMC 10627 after operational checks.
17. Close out the NAVMC 10627, and return it to the dispatcher.

### REFERENCES

1. FM 21-305 Manual for the Wheeled Vehicle Driver
  2. TM 2320-10/6, with changes 1 and 2, Operators Manual for Truck, Utility, 1-1/4 Ton
- 

### **EVENT: 0331 - 1 - 472**

Perform operator maintenance for a M-1045/46 High Mobility Multipurpose Wheeled Vehicle (HMMWV)

**Condition:** Given an SL-3 complete M1045/46 HMMWV.

**Standard:** In accordance with TM 9-2320-280-10.

### PERFORMANCE STEPS

1. Visually inspect for obvious damage to body or frame that would impair operation.
2. Look under the vehicle for evidence of fluid leakage.
3. Visually check tires for under-inflation, leaks, cuts, gouges, cracks, or bulges.
4. Check the tire rims for damage and missing or loose wheel stud nuts and lug nuts.
5. Check the condition and operation of windshield, windows, windshield wiper arms and blades, mirrors, all locking and fastening devices, towing pintle, and weather seals.
6. Observe for unusual dip or sway in the suspension.

INFANTRY T&R MANUAL

7. Check the shock absorbers for leaks, damage, and security of mounting.
8. Check for proper oil level.
9. Ensure drive belts are present and tight,. Check for cracking, fraying and breaks.
10. Inspect cooling fan blade assembly for security, cracks, and damage.
11. Check coolant level in surge tank for proper level.
12. Check power steering fluid for proper level.
13. Check weather cap, air cleaner assembly, and air intake hose for security of mounting and damage.
14. Check brake fluid for proper level.
15. Start engine, apply service brakes, and move transmission shift lever through all operating ranges. Then check for proper transmission fluid level with the shift lever in NEUTRAL. Shut off the engine when done.
16. Check winch controls for proper operation, and check the winch cable for kinks, frays, and breaks.
17. Check the batteries for damaged casing, terminal posts, and security of mounting.
18. Check battery electrolyte level.
19. Check battery box for corrosion and cleanliness of battery box drain holes.
20. Check seat belts for proper operation of buckles, clasps, and for security of mounting.
21. Check condition and stowage of fire extinguisher.
22. Check the service lights, blackout lights, turn signals, and horn for proper operation.
23. With parking brake applied and transmission in NEUTRAL, start engine.
24. Check for proper reading of the engine oil pressure, coolant temperature, voltmeter, fuel, and air restriction gauges.
25. Ensure the service brakes are applied. Release the hand brake, and ensure the BRAKE WARNING lamp goes out.
26. Shift the transmission through all ranges, while checking for stiffness or binding.
27. Apply service brake pedal. Shift transmission to NEUTRAL, and shift transfer case shift lever through all ranges, while checking for stiffness or binding.
28. During operation, check for unusual noises or vibrations from the transmission, exhaust, transfer case, differentials, propeller shafts, axle shafts, and geared hub or wheels.
29. With the vehicle moving, apply brake pedal until the vehicle comes to a complete stop. Check for any pulling, grabbing, or abnormal operation.
30. With the vehicle stopped and the motor at idle, apply the parking brake. Put the transmission shift lever in DRIVE and ensure the vehicle remains stationary.
31. Drain fuel from the fuel drain cock, and check for contamination.

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32. Inspect cargo shell door for bends, warping, binding, and ease of opening and closing.
33. Check weapons station for binding by rotating 360 degrees in both directions, at least 5 times.
34. Inspect weapon station hatch and hinge for bends, cracks, warping, or damage.
35. Inspect weapons station brake handle for ease of operation.
36. Inspect Gunner's sling assembly for tears or frays.
37. Inspect TOW missile stowage rack latch assembly and support braces for presence and ease of operation. Inspect straps for tears and frays.
38. Inspect Gunner's platform for binding, ease of operation, and missing platform locking pins.
39. Check the TOW power cable and wall mount for serviceability.

### REFERENCES

1. TM 9-2320-280-10 Technical Manuals for Highly Mobile Multi-Wheeled Vehicle (HMMWV)
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### **EVENT: 0331 - 1 - 473**

Inspect a High Mobility Multipurpose Wheeled Vehicle (HMMWV)

**Condition:** Given an SL-3 complete HMMWV.

**Standard:** In accordance with TM 2320-10/6.

### PERFORMANCE STEPS

1. Visually inspect for obvious damage to body or frame that would impair operation.
2. Look under the vehicle for evidence of fluid leakage.
3. Visually check tires for under-inflation, leaks, cuts, gouges, cracks, or bulges.
4. Check the tire rims for damage and missing or loose wheel stud nuts and lug nuts.
5. Check the condition and operation of windshield, windows, windshield wiper arms and blades, mirrors, all locking and fastening devices, towing pintle, weather seals, service lights, blackout lights, and turn signals.
6. Observe for unusual dip or sway in the suspension.
7. Check the shock absorbers for leaks, damage, and security of mounting.
8. Pull out the dipstick, and check for proper oil level.
9. Check drive belts for presence, cracking, fraying, and breaks.
10. Inspect cooling fan blade assembly for security, cracks, and damage.
11. Check coolant level in surge tank for proper level.
12. Check power steering fluid for proper level.
13. Check weather cap, air cleaner assembly, and air intake hose for security of mounting and damage.

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14. Remove cover, and check brake fluid for proper level.
15. Start engine. Apply service brakes, and move transmission shift lever through all operating ranges. Check for proper transmission fluid level with the shift lever in NEUTRAL. Return transmission shift lever to PARK, and turn off the engine when complete.
16. Check winch controls for proper operation and winch cable for kinks, frays, and breaks.
17. Check battery(ies) for damaged casing, terminal posts, and security of mounting.
18. Check battery electrolyte level.
19. Check battery box for corrosion and cleanliness of battery box drain holes.
20. Check safety belts for proper operation of buckle and clasps, and for security of mounting.
21. Check condition and stowage of fire extinguisher.
22. Check horn for proper operation.
23. With parking brake applied, start engine and check for proper reading of the engine oil pressure, coolant temperature, voltmeter, fuel, and air restriction gauges.
24. Release the parking brake and ensure the BRAKE WARNING lamp extinguishes.
25. Apply service brake pedal and shift the transmission through all operating ranges. Check for stiffness or binding in the shift lever.
26. Listen for exhaust leaks.
27. During operation, check for unusual noises or vibrations from the transmission, transfer case, differentials, propeller shafts, axle shafts, and geared hub or wheels.
28. With the vehicle moving, apply brake pedal until the vehicle comes to a complete stop. Check for any pulling, grabbing, or abnormal operation.
29. With the vehicle stopped and the motor at idle, apply the parking brake. Put the transmission shift lever in DRIVE and ensure the vehicle remains stationary.
30. Inspect cargo shell door for bends, warping, binding, and ease of close.
31. Inspect cargo shell door latching mechanism for proper operation.
32. Inspect the lift cylinders for bends and security of mounting.
33. Inspect cargo door strap assembly for frays and security of mounting.
34. Check weapons station for binding by rotating 360 degrees in both directions at least 5 times.
35. Inspect weapon station hatch and hinge for bends, cracks, warping, or damage.
36. Inspect brake handle for ease of operation.
37. Inspect Gunner's sling assembly for tears or frays.
38. Inspect TOW missile stowage rack latch assembly and support braces for presence and ease of operation. Inspect straps for tears and frays.

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39. Inspect Gunner's platform risers for binding, ease of operation, and missing platform locking pins.

**REFERENCES**

1. TM 2320-10/6, with changes 1 and 2, Operators Manual for Truck, Utility, 1-1/4 Ton

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**EVENT: 0331 - 1 - 496**

Conduct a debrief

**Condition:** Given the necessary equipment, a debriefing format, and a representative from the applicable staff section.

**Standard:** To relay all information during the course of the mission.

**PERFORMANCE STEPS**

1. Move to designated area for debrief.
2. Lay out and account for all team and individual equipment.
3. Discuss observation logbook.
4. Conduct debrief following debriefing format.
5. Provide changes to original overlays.

**REFERENCES**

1. FMFM 6-5 Marine Rifle Platoon/Squad

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CHAPTER 5

0331 MACHINE GUNNER

APPENDIX D

LEVEL 2 TRAINING

**Purpose:**

The purpose of the Level 2 training is to provide the knowledge and skills required to perform as a Squad Leader, Machinegun Section, Weapons Platoon and Section Leader, Heavy Machinegun Platoon, Weapons Company.

**Administrative Notes:**

None.

**Prerequisites:**

Completion of Level 1 training and attendance at the Advanced Machine Gun Leaders Course.

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**EVENT: 0331 - 2 - 007**

Inspect an M9 Service Pistol

**Condition:** Given an M9 pistol, cleaning gear, and lubricant.

**Standard:** In accordance with TM 1005A-10/1.

**PERFORMANCE STEPS**

1. Ensure the weapon is clear.
2. Hold the pistol in the right hand with the muzzle slightly elevated, with the forefinger press disassembly lever release button and with the thumb rotate the disassembly lever downward until it stops.
3. Pull the slide and barrel assembly forward and remove.
4. Compress the recoil spring and spring guide, while at the same time lifting and removing the recoil spring and spring guide.
5. Separate the recoil spring from the spring guide.
6. Push in on the locking block plunger while pushing the barrel forward. Lift and remove the locking block and barrel assembly from the slide.
7. Grasp the magazine firmly with the floor plate up and the back of the magazine tube against the palm of the hand.
8. Release the floor plate by pushing down on the floor plate retainer stud in the center of the floor plate, while at the same time sliding the floor plate forward for a short distance using the thumb.
9. While maintaining the magazine spring pressure with the thumb, remove the floor plate from the magazine.
10. Remove the floor plate retainer and magazine spring and follower from the magazine tube.
11. Remove floor plate retainer from the magazine spring.
12. Inspect slide assembly for free movement of decocking/safety lever.
13. Ensure rear sight is not loose.
14. Check for cracks in locking block retaining slot.
15. Inspect bore and chamber for pitting or obstructions.
16. Check locking block plunger for free movement of locking block.
17. Inspect locking lugs and barrel lugs for cracks and burrs.
18. Inspect recoil spring for damage.
19. Inspect recoil spring guide for straightness and smoothness.
20. Ensure recoil spring guide is free of cracks and burrs.
21. Inspect receiver assembly for bends, chips and cracks.
22. Check slide stop for free movement.
23. Magazine catch assembly for free movement.
24. Check guide rails for excessive wear, burrs, cracks or chips.
25. Check magazine spring and follower for damage.
26. Inspect the lips of the magazine for cracks, burrs, dents, and bends.
27. Inspect the magazine for excessive dirt.

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28. Inspect slide assembly for excessive dirt and carbon.
29. Inspect the decocking/safety lever, breech face, slide guides, and extractor for excess dirt and residue.
30. Inspect barrel and chamber area for residue and carbon deposits.
31. Inspect bore for carbon deposits.
32. Inspect the locking block for carbon deposits.
33. Inspect the recoil spring and recoil spring guide for excessive dirt.
34. Inspect the receiver assembly for excessive dirt and carbon deposits.
35. Inspect the magazine tube and follower for excessive dirt and carbon deposits.
36. Inspect the magazine spring, floor plate retainer, and floor plate for excessive dirt and carbon deposits.
37. Grasp the slide with the bottom facing up and with the other hand grasp the barrel assembly with the locking block facing up.
38. Insert the muzzle of the barrel assembly into the forward open end of the slide, while at the same time lowering the rear of the barrel assembly by aligning the extractor cutout with the extractor.
39. Insert the recoil spring onto the recoil spring guide.
40. Insert the end of the recoil spring and recoil spring guide into the slide recoil spring housing, while at the same time compressing the recoil spring and lower the spring guide until fully seated onto the locking block cutaway.
41. Grasp the slide and barrel assembly, sights up, and align the slide onto the receiver assembly guide rails.
42. Push until the rear of the slide is a short distance beyond the rear of the receiver assembly and hold. At the same time, rotate the disassembly latch lever upward.
43. Insert the follower into the top coil of the magazine spring.
44. Insert the magazine spring with follower into the magazine tube.
45. Turn the magazine bottom up with the back side against the palm of the hand.
46. Attach and center the floor plate retainer to the bottom spring coil.
47. Push and hold the magazine spring and floor plate retainer down, while at the same time sliding the floor plate over the side walls until fully seated.
48. Insert the magazine into the magazine well of the pistol.
49. Depress the slide stop and ensure the slide goes home.
50. Retract the slide and release it. Ensure the magazine follower should push up on the slide stop, locking the slide to the rear.
51. Depress the magazine release button allowing the magazine to fall free.
52. Ensure the decocking/safety lever is in the SAFE position. Depress the slide stop allowing the slide to return fully forward and ensure the hammer falls to the full forward position.

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53. Squeeze and release the trigger. Ensure the firing pin block moves up and down and that the hammer does not move.
54. Place the decocking/safety lever in the fire position.
55. Squeeze the trigger and ensure the hammer cocks and falls.
56. Squeeze trigger and hold to the rear. Manually retract and release the slide while holding the trigger to the rear. Release the trigger. A click will be heard and the hammer does not fall.
57. Squeeze the trigger and the hammer will fall.

### REFERENCES

1. TM 1005A-10/1 Pistol, Semiautomatic, 9mm, M9
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### **EVENT: 0331 - 2 - 025**

Inspect an M16A2 service rifle

**Condition:** Given an M16A2 service rifle, cleaning gear, and lubricant.

**Standard:** In accordance with TM 05538C-10/1A.

### PERFORMANCE STEPS

1. Clear the rifle.
2. Unsnap the sling.
3. Place the rifle on the butt stock, press down on the slip ring, and remove the hand guards.
4. Push the takedown pin as far as it will go and pivot the upper receiver from the lower receiver.
5. Push the receiver pivot pin and separate the upper and lower receivers.
6. Pull back on the charging handle and bolt carrier to remove the bolt carrier group.
7. Remove the charging handle.
8. Remove the firing pin retaining pin.
9. Put the bolt assembly in the locked position.
10. Drop the firing pin out of the rear of the bolt carrier.
11. Remove the bolt cam pin and then remove the bolt assembly from the carrier.
12. Remove the extractor pin and then remove the extractor and spring.
13. Press in on the buffer, depress retainer, and release the buffer. Then remove the buffer and the action spring.
14. Swab out the bore with a patch moistened with CLP.
15. Pull a bore brush through the bore and out the muzzle several times.
16. Pull a patch moistened with CLP through the bore and out the muzzle several times.
17. Thoroughly clean all areas of powder fouling on the upper receiver with CLP to include the chamber, locking lugs, and the gas tube.

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18. Thoroughly clean the bolt carrier group with CLP to include the outer and inner surfaces, carrier key, firing pin recess and firing pin, firing pin hole, locking lugs, ejector, and areas behind the bolt ring and upper lip of extractor.
19. Thoroughly clean all areas of powder fouling, corrosion, and dirt on the lower receiver group to include the trigger mechanism, buffer, action spring, and inside lower receiver extension.
20. Inspect the bolt for cracks, fractures, and pits.
21. Inspect the firing pin to ensure it is not bent, cracked, or blunted.
22. Inspect the firing pin retaining pin to ensure it is not bent or badly worn.
23. Inspect the cam pin to ensure it is not cracked or chipped.
24. Inspect the extractor and extractor spring to ensure it is not chipped or broken and that the rubber insert is inside the extractor spring.
25. Lightly lubricate the inside of the upper receiver, bore and chamber, outer surfaces of barrel and front sight, and the surfaces under the hand guard with CLP.
26. Apply several drops of CLP to the front sight detent and depress several times to work the CLP into the spring.
27. Generously lube the bolt to include the cam pin area, bolt rings, and the outside of the bolt body with CLP. Use only a light coat of CLP on the firing pin recess of the bolt.
28. Lightly lube the firing pin, charging handle, and inner and outer surfaces of the bolt carrier with CLP.
29. Generously lube the slide and cam pin area of the bolt carrier with CLP.
30. Lightly lube the inside lower receiver extension, buffer, and action spring with CLP.
31. Generously lube the takedown and pivot pins, detents, and the moving parts inside of the lower receiver and their pins.
32. Apply several drops of CLP to the moving parts of the adjustable rear sight to include the elevation knob, elevation screw shaft, windage knob, windage screw, and detent holes.
33. Ensure the correct windage and battle sight zero is reset on the weapon.
34. Insert action spring and buffer.
35. Insert extractor and spring, and then push in the extractor pin.
36. Slide bolt into carrier and replace the bolt cam pin.
37. Drop in and seat the firing pin.
38. Pull bolt out and replace the firing pin retaining pin.
39. Engage, then push the charging handle part way.
40. Slide in the bolt carrier group, then push the charging handle and bolt carrier group together.
41. Join the upper and lower receivers and engage the receiver pivot pin.

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42. Close the upper and lower receiver groups and push in the takedown pin.
43. Place the rifle on the butt stock and press down on the slip ring. Then install the hand guards and release the ring.
44. Snap on the sling.
45. Pull the charging handle to the rear and release. Place the selector lever on SAFE, pull the trigger, and ensure the hammer does not fall.
46. Place the selector lever on Semi, pull the trigger and hold to the rear. Hammer should fall.
47. Pull the charging handle to the rear and release. Release the trigger and pull again. Hammer should fall.
48. Place the selector lever on Burst. Pull the charging handle to the rear and release.
49. Pull the trigger and hold to the rear. Hammer should fall.
50. Pull the charging handle to the rear 3 times and release. Release trigger and pull again. Hammer should fall.

### REFERENCES

1. TM 05538C-10/1A Operator's Manual, Rifle, 5.56mm, M16A2 W/E
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### **EVENT: 0331 - 2 - 074**

Inspect a machinegun firing position

**Condition:** Given a mission, a sector of fire, a machinegun firing position, and a tripod mounted, SL3 complete medium or heavy machine gun.

**Standard:** To ensure correct dimensions and weapons placement in support of the assigned mission.

### PERFORMANCE STEPS

1. Ensure tripod is oriented on the center of the assigned sector of fire.
2. Ensure aiming stakes are emplaced and cannot be knocked down easily.
3. Ensure firing platform is large enough to support the machinegun.
4. Align the barrel of the machinegun on the final protective line.
5. Align the barrel of the machinegun on the principal direction of fire, if assigned.
6. Ensure the frontal parapet is a minimum of 3 ft in width and high enough to conceal the crew from the flanks and rear.
7. Ensure position is at least armpit deep and enables the Gunner to shoot with ease.
8. Ensure a shelf 1 foot wide is clear within the position, that separates the parapet and the hole.
9. Ensure tripods legs have been emplaced by digging, sandbagging, or staking them down.
10. Ensure there are 3 trench-shaped grenade slumps at various points within the hole.

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11. Ensure the position is camouflaged.
12. Ensure the position is concealed from enemy air observation.
13. If time and materials are available, ensure overhead cover has been constructed.
14. Observe the position from the enemies view point to determine inherent weaknesses.
15. Have Team Leader point out alternate and supplementary positions.
16. When there is a 3-man crew, ensure Ammunition Bearer digs a 1 man fighting position to the flank of the position.
17. Ensure a range card is located near the machine gun.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### REFERENCES

1. FM 23-65 Browning Machinegun Caliber .50 HB, M2
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#### **EVENT: 0331 - 2 - 078**

Issue a fire command to a machinegun section

**Condition:** Given a mission and a machinegun section.

**Standard:** To prepare a machinegun section to fire.

### PERFORMANCE STEPS

1. Alert the machinegun section.
2. Give an accurate direction to the target.
3. Issue a brief target description.
4. Issue the range to the target.
5. Issue assignments/methods only when specific assignments are required to divide or subdivide the target, assign class of fire, or announce the rate of fire.
6. Issue the control order, in order to open fire.
7. Issue subsequent fire commands, in order to repeat or correct a fire command, to adjust fire, to cease or commence fire, or terminate the alert.

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  2. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
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#### **EVENT: 0331 - 2 - 081**

Advise commander(s) on the employment of machineguns

**Condition:** Given an order with a commander's intent and a requirement to employ machineguns.

**Standard:** To accomplish the intent of the higher headquarters' order

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and in accordance with the references.

### PERFORMANCE STEPS

1. Analyze the mission using METT-T and KOCOA.
2. Consider the characteristics/capabilities of the M240G, M2 .50 Cal, and the MK19 Machineguns.
3. Consider techniques of fire.
4. Consider employment of machineguns in the offense and defense.
5. Implement appropriate training.
6. Provide technical and tactical advice to all levels.
7. Recommend employment of machineguns.

### REFERENCES

1. FM 23-27 MK19 40MM Grenade Machine Gun MOD 3
  2. FM 23-65 Browning Machinegun Caliber .50 HB, M2
  3. FM 23-67 Machinegun 7.62mm, M60
  4. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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### **EVENT: 0331 - 2 - 121**

Inspect an M2 heavy machinegun

**Condition:** Given an SL-3 complete M2 heavy machinegun.

**Standard:** In accordance with TM 02498A-10/1, TM 08686A-13&P/1, and FM 23-65.

### PERFORMANCE STEPS

1. Ensure the weapon is clear.
2. Retract bolt far enough for barrel locking spring lug to center in the 3/8 inch hole on right hand side of receiver.
3. Unscrew and remove barrel assembly.
4. Inspect the bore and chamber for cleanliness.
5. Inspect barrel locking notches for wear or breakdown.
6. Inspect barrel for rust.
7. Inspect bore for bulges, missing bands, or large pits.
8. Inspect chamber for bulges or large pits.
9. Pull back plate latch lock straight back, while lifting up on back plate latch. Raise back plate assembly straight up and remove from receiver. Place spade grips down, to prevent damage.
10. Inspect back plate guides for burrs or bent conditions.
11. Check back plate latch and back plate latch lock for proper functioning.
12. Ensure locking pins are in place.
13. Check trigger for proper functioning.
14. Check bolt latch release for proper functioning.
15. Ensure handle grips do not move freely and are not cracked.

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16. Check bolt latch release lock for proper functioning.
17. Push rear of driving spring rod assembly forward and to the left until free from the side of the receiver.
18. Remove driving spring rod assembly.
19. Inspect driving spring rod assembly for flat spots on springs, ensuring springs operate freely and rod and pin are not bent or broken.
20. Retract bolt assembly far enough to align bolt stud with bolt stud hole in receiver. Remove bolt stud.
21. Install pointed end of M4 cleaning rod into hole in receiver, and depress buffer body lock. At the same time, apply rearward pressure on barrel extension assembly.
22. Remove barrel buffer assembly, barrel extension assembly, and the bolt group from the receiver.
23. Remove bolt assembly from the barrel extension assembly.
24. Separate the barrel buffer body group and the barrel extension group by pushing forward on tips of buffer accelerator.
25. Check movement of cartridge extractor in bolt. Cartridge extractor should raise and lower without binding.
26. Check movement of cartridge ejector, observing for cracks and/or burrs.
27. Inspect bolt switch, cocking lever pin, cocking lever, accelerator stop lock, accelerator stop, and sear slide for cracks, bends, and burrs.
28. Inspect sear for cracks and burrs. Inspect sear notch for wear, chips, or burrs. Inspect sear spring for breaks or lack of tension.
29. Inspect firing pin for cracks and chipped or sharp tip. Ensure the tip is smooth and well rounded.
30. Check firing pin extension for cracks, burrs, and free movement in bolt. Ensure shoulder engages sear has a sharp angle and is free of chips and burrs.
31. Ensure bolt is free of burrs and cracks. Firing pin hole must not be visibly out of round.
32. Inspect buffer body lock for tension, staking, and retention in barrel buffer body.
33. Inspect buffer accelerator for broken claws or tips.
34. Inspect accelerator pin assembly for broken or missing spring.
35. Inspect buffer spring for cracks or breaks.
36. Breech lock depressors must have a slight vertical (up and down) movement, but not a lateral (side to side) movement.
37. Inspect barrel extension assembly to ensure it is not bent. Ensure the bolt guide ways are smooth and free of burrs.
38. Visually inspect threads of barrel extension assembly for any damage.
39. Ensure barrel locking spring is staked and fully seated in its groove. Ensure the locking end of the spring has good tension and the lug is not damaged.
40. Inspect breech lock pin assembly for broken or missing spring.
41. Check breech lock for smooth movement in guide ways of barrel extension assembly.

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42. Inspect retracting slide handle for cracks or other visible damage, observing for weak or broken retracting springs.
43. Ensure cotter pins are present and in good condition.
44. Ensure safety wire is in place and properly laced.
45. Inspect belt holding pawl brackets for looseness, bends, or cracks.
46. Inspect side plates for bends that would effect movement of any internal components.
47. Inspect for cracks and burrs at back plate grooves.
48. Check operating rear sight, ensuring free-movement of the windage and elevation screws.
49. Ensure leaf assembly has good spring tension and sight assembly is secured tightly to receiver.
50. Ensure bolt stop is present and in good condition.
51. Ensure trigger lever moves freely, without binding.
52. Ensure trigger lever pin locks in place.
53. Ensure cotter pin is in place on extractor switch.
54. Install bolt assembly into barrel extension and buffer assembly.
55. Install barrel buffer assembly, barrel extension assembly, and bolt assembly into the receiver.
56. Align hole in bolt assembly with stud assembly hole in receiver, and install bolt stud in hole in bolt assembly.
57. Raise bolt latch, and push bolt assembly into receiver.
58. Align hole in bolt assembly with stud assembly hole in receiver, and install bolt stud in hole in bolt assembly.
59. Place bolt in forward position.
60. Install driving spring rod assembly in upper right hand corner of bolt. Push forward, and to the right, until drive spring rod assembly engages in hole in side plate of receiver, and not in the groove for the back plate.
61. Install back plate assembly in receiver grooves. Pull back plate latch lock, while lifting up on back plate latch. Lower back plate assembly down, until engaged in receiver.
62. Retract bolt far enough for barrel locking spring lug to center in barrel locking spring hole, on right side of receiver.
63. Install and screw barrel assembly completely into receiver. Unscrew barrel assembly until 2 clicks are heard.
64. Place the weapon in the single-shot mode.
65. Open the cover and lock the bolt to the rear. The bolt should stay to the rear in single-shot mode.
66. Hold the retractor slide handle. Press bolt latch release, and ride the bolt forward.
67. Press down on the trigger; weapon should fire. Check T-slot to ensure the firing pin does protrude.
68. Place the weapon in AUTOMATIC fire mode.
69. Pull the retractor slide handle to the rear and hold; bolt should not lock to the rear.

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70. Release the pressure on the retractor slide handle, and ride the bolt forward.
71. Make sure firing pin does not protrude.
72. Press trigger; weapon should fire.
73. Make sure the firing pin does protrude.
74. Inspect for dirt and rust on traversing and elevation mechanism.
75. Inspect the traversing and elevation mechanism for readability of scales and cleanliness of far ends of the traversing and elevating mechanism screws. Perform function check by testing for dead clicks.
76. Inspect for dirt and rust on the M3 tripod.
77. Visually inspect the tripod components for wear, cracks, dents, and damage. Ensure springs are free of rust, corrosion, and deformation.
78. Ensure all parts are properly installed and are in working condition.
79. Insert pintle into pintle bushing ensuring it locks in place.
80. Inspect all surfaces of the MK64 carriage and cradle assembly for dirt and corrosion.
81. Inspect the MK64 for binding. Check for damaged or missing retaining pins, chains, cotter pins, self locking screws, pintle, pintle lock assembly, and bolts. Check all welded areas for cracks. If paint is removed from the assembly, touch up or repaint.
82. Inspect all surfaces of the pintle adapter assembly for dirt and corrosion.
83. Inspect for missing or damage screw, cable, pintle, and quick release pin.
84. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
85. Inspect the train and elevation assembly for dirt and corrosion.
86. Inspect for missing or broken screws, washers, nuts, handles, and the chain.
87. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
88. Inspect the 50. cal pintle and MK64 mounting adapter for dirt and corrosion.
89. Inspect pintle and mounts for cracks and damage. Check for missing bolts, cotter pins, and washers.
90. Inspect the ammunition mount assemblies for dirt and corrosion.
91. Inspect the ammunition mount assemblies for missing screws, chains, cotter pins, retaining pins, welded pins, and straight pins. Check all welds for cracks. Check for binding or broken springs.
92. Inspect the barrel bag for broken zipper, excessive wear or deterioration.

### REFERENCES

1. TM 02498A-10/1 Operator's Manual, Machinegun, Caliber .50; Browning, M2 Heavy Barrel
2. FM 23-65 Browning Machinegun Caliber .50 HB, M2
3. TM 08686A-13&P/1 Mount, Machinegun, MK64

**EVENT: 0331 - 2 - 137**

Inspect a MK19 heavy machinegun

**Condition:** Given an SL-3 complete MK19 heavy machinegun.

**Standard:** In accordance with TM 08521A-10/1A, MCWP 3-15.1, and TM 08686A-13&P/1.

**PERFORMANCE STEPS**

1. Ensure the weapon is clear.
2. Place weapon on SAFE.
3. Pull straight out on the back plate pin.
4. Lift up slightly on the back plate assembly. Pull it to the rear, until it clicks.
5. Put the safety on FIRE.
6. Support assembly with both hands and pull reward to remove. Once removed from the receiver, always place the bolt and back plate assembly flat on a clean surface, to reduce the possibility of damage.
7. Reach under top of receiver to locate the drive lever lock and slide the lock reward.
8. To remove from the receiver, press down on the primary drive levers pivot post to release both the primary drive lever and vertical cam. Once removed from weapon system, always place with chrome edge up to reduce the possibility of damage.
9. Rotate left and right charger assemblies up.
10. Hook the rim of a spent casing under the lip of the lock plunger. Lift up on the lock plunger to retract it. Slide charger assembly all the way rearward, and pull the charger assembly away from the receiver to remove.
11. With the weapon still on FIRE turn the receiver on its side and lift up slightly on lock pin with cartridge link.
12. Squeeze receiver sear and safety together. Then rotate sear housing assembly 90 degrees in either direction.
13. Push tip of sear down. Put safety on SAFE to lock the sear in the down position, and lift out to remove the housing assembly.
14. Inspect receiver housing for cracks, rust, and cleanliness.
15. Inspect receiver rails for burrs.
16. Inspect feeder pawls for no spring action or burrs.
17. Inspect barrel for carbon buildup and pitting in bore or chamber.
18. Check flash suppressor for dents or cracks.
19. Inspect rear sight for rust, legible sight scale, and binding in movable parts.
20. Inspect the sear housing assembly for dirt and corrosion.
21. Inspect sear especially rear shoulder of sear for burrs.

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22. Squeeze sear and safety together. Then place safety on FIRE. Keep pressure on safety, and line up sear housing assembly at right angle to barrel centerline. Twist housing 90 degrees, until assembly locks in place.
23. Inspect alignment guide for deformed or cracked spring, cracks around pin, and looseness of pin.
24. Inspect ogive plunger head for spring action, and round positioning block for weak spring action.
25. Inspect the charger assembly for dirt and corrosion.
26. Check for burrs on groove edges on the charger assembly.
27. Inspect vertical cam assembly for burrs, scratches, or aluminum buildup on chromed edge. Inspect primary drive lever for burrs, especially around pivot posts.
28. Inspect secondary drive lever for missing pivot post retaining ring, burrs on pivot post, and burrs on forked end.
29. Inspect feed slide assembly and feed tray for dirt and corrosion.
30. Inspect feed pawls or feed tray pawl for burrs or binding. Inspect guide rails on tray for burrs.
31. Inspect top cover assembly for cracks or rust and the latch for binding or looseness.
32. Inspect all parts of the bolt and back plate assembly for dirt and corrosion.
33. Inspect cocking lever for broken or worn rear tip, guide rods for bent or binding, recoil springs for weak spring action, back plate pin for missing retaining spring, and the safety wire for presence and looseness.
34. Rotate charger assemblies to straight up position and line up lugs on charger with slots in receiver rail. Then insert charger lugs into slots.
35. Hold tightly against rail, and slide forward until it locks in place.
36. Slide vertical cam assembly through rear of receiver. Raised portion should slide over hole in receiver and drive lever lock should be underneath.
37. Engage forked end in the notch of the receiver.
38. While holding vertical cam assembly in place, slide primary drive lever into receiver.
39. Engage pivot post of lever through holes in receiver and vertical cam while sliding the drive lever lock forward on the vertical cam just beneath top of receiver.
40. To insert the bolt and back plate assembly. Make sure the cocking lever is cocked and forward. Place safety on FIRE, and insert the assembly into receiver.
41. When assembly stops, press the receiver sear and slide the assembly all the way forward. Then insert the back plate pin to lock the assembly in place.
42. Ensure the secondary drive lever is properly engaged and the feed slide assembly is all the way to the left.
43. Close the cover.

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44. Pull bolt to the rear.
45. Place the safety on SAFE.
46. Press the trigger, and the bolt should not go forward.
47. Place the safety on FIRE.
48. Press trigger and allow the bolt to spring home freely, in order to conduct firing pin inspection.
49. Place the safety on SAFE.
50. Open top cover.
51. Inspect firing pin and bolt face for signs of worn or damaged parts.
52. Move secondary drive lever back and forth to ensure it moves freely.
53. Press the feed pawls to check for spring pressure.
54. Ensure the secondary drive lever is to the right and engaged under the feed tray. Then slide the feed slide to the left.
55. Ensuring the bolt is forward, close the cover. Ensure it locks.
56. Inspect for dirt and rust on the traversing and elevation mechanism.
57. Inspect the traversing and elevation mechanism for readability of scales and cleanliness of far ends of the traversing and elevating mechanism screws. Perform function check by testing for dead clicks.
58. Inspect for dirt and rust on the M3 tripod.
59. Visually inspect the tripod components for wear, cracks, dents, and damage. Springs must be free of rust, corrosion, and deformation.
60. Ensure all parts are properly installed and are in working condition.
61. Insert pintle into pintle bushing, ensuring it locks in place.
62. Inspect all surfaces of the MK64 carriage and cradle assembly for dirt and corrosion.
63. Inspect the MK64 for binding. Inspect for damaged or missing retaining pins, chains, cotter pins, self locking screws, pintle, pintle lock assembly, and bolts. Check all welded areas for cracks. If paint is removed from the assembly touch up or repaint.
64. Inspect all surfaces of the pintle adapter assembly for dirt and corrosion.
65. Inspect for missing or damaged screw, cable, pintle, and quick release pin.
66. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
67. Inspect the train and elevation assembly for dirt and corrosion.
68. Inspect for missing or broken screws, washers, nuts, handles, and the chain.
69. Check for bare metal where paint has worn off, and touch up the upper part of the adapter.
70. Inspect pintle and mounts for cracks and damage. Check for missing bolts, cotter pins, and washers.
71. Inspect the ammunition mount assemblies for dirt and corrosion.

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72. Inspect the ammunition mount assemblies for missing screws, chains, cotter pins, retaining pins, welded pins, and straight pins. Check all welds for cracks. Check for binding or broken springs.

73. Inspect the gun and barrel cover for cleanliness, broken zipper, excessive wear, or deterioration.

### REFERENCES

1. TM 08521A-10/1A Operator's Manual and Components List, Machinegun, 40MM, MK19 Mod 3
  2. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  3. TM 08686A-13&P/1 Mount, Machinegun, MK64
- 

### **EVENT: 0331 - 2 - 305**

Inspect optics

**Condition:** Given organic optical equipment.

**Standard:** To ensure the optics are clean, serviceable, and free from rust.

### PERFORMANCE STEPS

1. Inspect the optics for serviceability and cleanliness, per appropriate TM.
2. Inspect and account for all SL-3 gear.
3. Coordinate higher echelon maintenance, as required.

### REFERENCES

1. Appropriate Technical Manuals
  2. TM 08579-12/A Modular Universal Laser Equipment, AN/PAQ-3 (MULE)
  3. TM 09500A-10/1 Operator's Manual AN/PVS-7B
  4. TM 09629A-10/1 Special Application Scoped Rifle, .50 CAL, M82A1A
  5. TM 11-5855-213-10 Operator's Manual for Night Vision Sight Individual Served Weapon AN/PVS-4
  6. TM 11-5855-214-10 Operator's Manual, Night Vision Sight, Crew Served Weapon AN/TVS-5
  7. TM 11-5855-238-10 Operator's Manual, Night Vision Goggles, AN/PVS-5 series
  8. TM 11-5855-301-12&P Operator's and Unit Maintenance Manual, Light, Aiming, Infrared, AN/PAQ-4B (IAL)
  9. TM 11-5860-201-10 Laser Infrared Observation Set AN/GVS-5
  10. TM 10271A-10/1 Technical Manual for AN/PVS-14, Monocular NVD
  11. TM 10470A-12&P/1A Operator's and Unit Maintenance Manual, Target Pointer Illuminator/Aiming Light, AN/PEQ-2A
  12. TM 11-5855-262-10-2 Night Vision Goggles
  13. TM 11-5855-301-12&P Operator's and Unit Maintenance Manual, Light, Aiming, Infrared, AN/PAQ-4B (IAL)
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**EVENT: 0331 - 2 - 315**

Write a five paragraph order

**Condition:** Given a 5 paragraph order from higher headquarters, paper, and pen.

**Standard:** By developing an order which supports achievement of higher headquarters' mission.

**PERFORMANCE STEPS**

1. Determine the mission from higher headquarters' mission, commander's intent, and specified tasks.
2. Analyze the enemy situation to determine the effect on the unit.
3. Analyze the friendly situation to determine the effect on the unit.
4. Analyze the effect of attachments and/or detachments on the unit.
5. Analyze the higher scheme of maneuver and fire support plan.
6. Determine the unit scheme of maneuver.
7. Determine the unit fire support plan.
8. Task organize the unit.
9. Analyze higher administration and logistics to determine the effect on the unit.
10. Determine unit administrative and logistic requirements.
11. Analyze higher command and signal plan.
12. Determine the unit command and signal plan.

**REFERENCES**

1. FMFM 6-5 Marine Rifle Platoon/Squad
- 

**EVENT: 0331 - 2 - 318**

Issue an order

**Condition:** Given a completed 5 paragraph order and a terrain model, while wearing a fighting load.

**Standard:** In accordance with FMFM 6-5.

**PERFORMANCE STEPS**

1. Assemble the unit around the terrain model.
2. Take role to ensure all members are present.
3. If issuing a mission order, receive a status report for the unit and Team Leaders on the preparatory tasks assigned to them when the warning order was issued.
4. Precede the issuance of the order with the orientation.
5. Issue the entire order before taking questions.
6. Conduct a question and answer session.
7. Conclude the issue process with a time check, and announce the next event to be accomplished.

**RELATED ITS**

315                      320

**REFERENCES**

1. FMFM 6-5 Marine Rifle Platoon/Squad
- 

**EVENT: 0331 - 2 - 345**

Direct the handling of known or suspected enemy personnel

**Condition:** Given a unit and known or suspected enemy personnel.

**Standard:** To ensure Enemy Prisoners of War (EPWs) are handled properly, with minimal impact on the unit's mission.

**PERFORMANCE STEPS**

1. Plan use of EPW teams.
2. Supervise the search.
3. Ensure weapons, documents and equipment are tagged and forwarded to higher headquarters.
3. Provide medical care and MEDEVAC
4. Ensure personal items, protective clothing, and equipment are returned to the EPWs.
5. Segregate the prisoners into appropriate groups.
6. Maintain silence among prisoners.
7. Ensure EPWs are processed quickly to higher headquarters.
8. Safeguard prisoners from abuse and hazards of enemy fire.

**ADMINISTRATIVE INSTRUCTIONS**

1. EPWs are allowed to keep field protective masks, helmets, and flak jackets.

**REFERENCES**

1. MCRP 4-11.8C Enemy Prisoner of War and Civilian Internees
  2. FM 27-10 Law of Land Warfare
  3. FMFRP 0-6 Marine Troop Leader's Guide
- 

**EVENT: 0331 - 2 - 376**

Navigate using relief sketch

**Condition:** Given a sketch of a military map, a lensatic compass, a starting point, and an objective.

**Standard:** To navigate to a given objective.

**PERFORMANCE STEPS**

1. Prepare a relief sketch from a military map.
2. Identify objective on relief sketch.

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3. Identify landmarks and limiting features (streams, structures, distinct terrain features).
4. Identify north.
5. Identify sun rise location or sun set location.
6. Identify areas to avoid, such as potential enemy locations.
7. Navigate from starting point to objective.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### REFERENCES

1. FM 21-26 Map Reading and Land Navigation
- 

### **EVENT: 0331 - 2 - 377**

Navigate using the Global Positioning System (GPS)

**Condition:** Given a map, protractor, map pen, designated objective(s), Global Positioning System (GPS) and accessories, wearing a fighting load.

**Standard:** By arriving within 100 meters of each designated checkpoint.

### PERFORMANCE STEPS

1. Determine six-grid of objective from map plot.
2. Input destination coordinates into global positioning system.
3. Determine current location coordinates from global positioning system reading.
4. Determine azimuth and distance to objective from global positioning system.
5. Move towards objective.
6. Monitor progress.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### RELATED ITS

378

### REFERENCES

1. Trimpack GPS Receiver, Operation and Maintenance Guide
- 

### **EVENT: 0331 - 2 - 378**

Navigate using the AN/PSN-11 Precision Lightweight GPS Receiver (PLGR)

**Condition:** Given a map, protractor, map pen, designated objective(s), AN/PSN-11 PLGR, wearing a fighting load.

**Standard:** By arriving within 100 meters of each designated checkpoint.

**PERFORMANCE STEPS**

1. Determine six-digit grid of objective from map plot.
2. Input destination coordinates into global positioning system.
3. Determine current location coordinates from global positioning system reading.
4. Determine azimuth and distance to objective from global positioning system.
5. Move towards objective.
6. Monitor progress.
7. Zeroize the AN/PSN-11 Precision Lightweight GPS Receiver (PLGR).

**EXTERNAL SUPPORT**

1. Maneuver/Training area

**RELATED ITS**

377

**REFERENCES**

1. TM 11-5825-291-13 Satellite Signals: Navigation Set AN/PSN-11 (PLGR)
- 

**EVENT: 0331 - 2 - 379**

Transmit a Position Report (PosRep)

**Condition:** Given a map and a radio, while wearing a fighting load.

**Standard:** By reporting location.

**PREREQUISITES**

0331 - 1 - 361

**PERFORMANCE STEPS**

1. Determine six or eight-digit grid of location.
2. Transmit location.

**RELATED ITS**

361

372

373

374

**REFERENCES**

1. MCWP 3-11.3 Scouting and Patrolling
- 

**EVENT: 0331 - 2 - 388**

Call for indirect fire using the grid method

**Condition:** Given a topographic map, compass, protractor, target, and binoculars.

**Standard:** By achieving effective fire on target within 3 adjustments.

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### PREREQUISITES

0331 - 1 - 361

### PERFORMANCE STEPS

1. Determine target description.
2. Determine/Estimate the location of the target, using grid coordinates.
3. Determine the direction to the target from the observer's position in mils.
4. Determine/Estimate the distance to the target from the observer's position in meters.
5. Establish an observer to target factor.
6. Determine the method of engagement.
7. Determine the method of fire and control.
8. Initiate a Call For Fire (CFF) by transmitting observer identification and warning order to the fire direction center.
9. Transmit a target location using an eight-digit grid coordinate to the Fire Direction Center (FDC).
10. Transmit a target description, method of engagement, and method of fire and control to the Fire Direction Center (FDC).
11. Receive a message to observer from the Fire Direction Center (FDC).
12. Transmit the message to observer to the Fire Direction Center (FDC).
13. Receive "Shot, over" from the Fire Direction Center (FDC).
14. Transmit "Shot, out" to the Fire Direction Center (FDC).
15. Observe the impact of the round.
16. Spot the round for height of burst, range, and deviation from the target.
17. Using the height of burst (HOB) spotting, determine the height of burst correction in meters.
18. Using the range spotting, determine the range correction in meters, using successive or hasty bracketing.
19. Using the deviation spotting and the OT factor (The mil relation formula or WERM rule), determine the deviation correction in meters.
20. Transmit the direction to the target from the observer's position in mils grid.
21. Transmit a correction for deviation, range, and height of burst.
22. Repeat performance steps 13 through 21 until the target is within the effective casualty radius/HOB of the round.
23. Transmit a request to Fire For Effect (FFE) to the Fire Direction Center (FDC).
24. Receive, "Rounds complete, over" from the Fire Direction Center (FDC).
25. Transmit, "Rounds complete, out" to the Fire Direction Center (FDC).
26. Determine the effect on target.
27. Determine refinement corrections.





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### PERFORMANCE STEPS

1. Determine the grid coordinates of your location.
2. Transmit your location coded to the Fire Direction Center (FDC).
3. Determine target description.
4. Determine the direction to the target from the observer's position in mils.
5. Determine/Estimate the distance to the target from the observer's position in meters.
6. Determine the vertical interval between the observer and the target in meters.
7. Establish an observer to target factor.
8. Determine the method of engagement.
9. Determine the method of fire and control.
10. Initiate a Call For Fire (CFF) by transmitting observer identification and warning order to the Fire Direction Center (FDC). The warning order consists of FDC call sign, observer ID, and the target shifted from. (FDC this is FO, shift from AB-1001, over.)
11. Send the second transmission. It consists of observer to target (OT) direction, and corrections from a known target. (Direction 2850, left/right\_\_\_\_\_, add/drop\_\_\_\_\_, up/down\_\_\_\_\_, over.)
12. Send the third transmission. It consists of a target description, method of engagement, and method of fire and control to the Fire Direction Center (FDC). (Dismounted infantry and APCs in the open, HE/RP mix, fire when ready, over.)
13. Receive a message to observer from the Fire Direction Center (FDC).
14. Transmit the message to observer to the Fire Direction Center (FDC).
15. Receive "Shot, over" from the Fire Direction Center (FDC).
16. Transmit "Shot, out" to the Fire Direction Center (FDC).
17. Observe the impact of the round.
18. Spot the round for height of burst, range, and deviation from the target.
19. Using the height of burst spotting, determine the height of burst (HOB) correction in meters.
20. Using the range spotting, determine the range correction in meters using successive or hasty bracketing.
21. Using the deviation spotting and the OT factor, determine the deviation correction in meters.
22. Transmit a correction for deviation, range, and height of burst.
23. Repeat performance steps 15 through 22 until the target is within the effective casualty radius/HOB of the round.
24. Transmit a request to Fire For Effect (FFE) to the Fire Direction Center (FDC).
25. Receive "Rounds complete" from the Fire Direction Center (FDC).
26. Transmit "Rounds complete" to the Fire Direction Center (FDC).
27. Determine the effect on target.
28. Determine refinement corrections.



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8. Screw whip into antenna base; hand tighten only.
9. Carefully mate antenna base with RT ANT connector; hand tighten only.
10. Position antenna, as needed, by bending goose neck.
11. Secure handset connector to AUD/DATA connector. Then push handset connector onto AUD/DATA connector and twist right (clockwise) to lock in place.

### REFERENCES

1. TM 11-5820-890-10-1 SINCGARS Ground Combat Net Radio, ICOM
- 

### **EVENT: 0331 - 2 - 422**

Maintain radio sets

**Condition:** Given an SL-3 complete radio.

**Standard:** Which allows clear communication with a distant station.

### PERFORMANCE STEPS

1. Make sure antennas are clean.
2. Check antenna elements for damage.
3. If a vehicular antenna base, make sure the braided strap (ground strap) is securely installed to the vehicle and antenna base.
4. Check cables, where visible, for cuts, cracks, and breaks.
5. Make sure cable connectors are secure.
6. Make sure cable connectors are securely attached to cables.
7. Make sure each control moves smoothly while you operate your radio.
8. Make sure pull-and-turn switches cannot move to a guarded position without first being pulled out.
9. Make sure all knobs are secure on their shafts.
10. Check for loose nuts, bolts, and screws.
11. Check for corrosion, rust, and deterioration of all metal parts.
12. If the radio gives a strange, unexplained message which does not automatically clear:
  - a. Set FCTN to STBY. Then return to SQ ON. This action may clear the problem.
  - b. If it does not, and the situation permits, set FCTN to Z-FH and wait for GOOD. Then turn to OFF and wait 10 seconds. Turn back to Z-FH and again wait for GOOD.
  - c. Run self-test. If GOOD results, reload radio and re-enter net. If problem still exists, contact unit maintenance.

### REFERENCES

1. TM 11-5820-890-10-1 SINCGARS Ground Combat Net Radio, ICOM
-

## INFANTRY T&R MANUAL

### **EVENT: 0331 - 2 - 424**

Communicate using a AN/PRC-119 field radio in frequency hopping mode

**Condition:** Given an SL-3 complete AN/PRC-119 field radio, a loaded ECCM fill device, and a distant station, while wearing a fighting load.

**Standard:** By loading a frequency hopping fill into the radio and conducting a radio check with the distant station.

#### **PREREQUISITES**

0331 - 2 - 421

#### **PERFORMANCE STEPS**

1. Assemble the field radio for operation.
2. Turn on the field radio.
3. Make sure that the ECCM fill device is loaded.
4. Connect ECCM fill device to RT connector AUD/FILL using fill cable.
5. Set RT FCTN to LD.
6. Set RT MODE to FH.
7. Set CHAN to position where data is to be loaded (NCS will direct you).
8. Set ECCM fill device select switch to position containing the desired data.
9. Set ECCM fill device function switch to ON.
10. Press LOAD. Display will cycle as shown, and a beep is heard.
11. Press STO. Display will blink and show STOL followed by the first digit of the data.
12. Change ECCM fill device select switch to position containing data desired next.
13. Press LOAD. Display will cycle as shown, and a beep is heard.
14. Press STO. Then press the number button of the channel in which the data is to be stored. Display will blink and show STO followed by the channel number in which the data was stored.
15. Set ECCM fill device function switch to OFF.
16. Disconnect ECCM fill device.
17. Set RT switches, as needed, for normal operation.
18. Conduct a radio check with distant station in frequency hopping mode to verify proper operation of the radio.

#### **RELATED ITS**

421

#### **REFERENCES**

1. TM 11-5820-890-10-6 SINCGARS ICOM Ground Radios Pocket Guide
- 

### **EVENT: 0331 - 2 - 433**

Construct a field expedient antenna

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**Condition:** Given a radio, field wire, metal stakes, insulators, and a distant station.

**Standard:** Which allows clear communication with a distant station.

**PERFORMANCE STEPS**

1. Determine the direction of the station you need to contact and line up antenna.
2. Stretch 100 foot of field wire on the ground.
3. Connect an insulator, such as a plastic spoon, piece of wood, or a button to each end of the wire. Add tie down wires to each insulator.
4. Raise the center of the wire 30 feet into the air, using a non-metal, object such as a tent pole or a tree limb.
5. Tie one end of the antenna wire to a metal stake.
6. Connect the antenna wire to the support, and raise the antenna.
7. Extend the other end of the antenna wire until it is tight, and secure it using another metal stake.
8. Measure and cut another piece of wire.
9. Run the second piece of wire to the other end of the antenna, keeping it 1 foot off the ground.
10. Attach the second piece of wire between ground stake and antenna insulator.
11. Attach an antenna lead-in to antenna and radio.
12. Transmit to desired station.

**RELATED ITS**

421

**REFERENCES**

1. MCRP 3-40.3C Antenna Handbook
- 

**EVENT:** 0331 - 2 - 439

Transmit a Casualty Report (CasRep)

**Condition:** Given a map, a casualty, and a radio, while wearing a fighting load.

**Standard:** By including each of the required items.

**PERFORMANCE STEPS**

1. Transmit casualty's name, initials, and last 4 digits of social security number.
2. Transmit date and time of incident.
3. Transmit 6 digit grid location of casualty.
4. Transmit type of wound.
5. Transmit portion of body effected.
6. Transmit seriousness of the wound.
7. Transmit requirement for MEDEVAC, if appropriate.



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4. MCRP 3-11.1A Commander's Tactical Handbook
  5. FMFRP 0-6 Marine Troop Leader's Guide
- 

### **EVENT: 0331 - 2 - 502**

Lead a unit in crossing a danger area

**Condition:** Given a unit, and an order with a mission requiring movement through a danger area.

**Standard:** To cross area quickly and safely.

#### **PERFORMANCE STEPS**

1. Halt unit short of the danger area in a secure area.
2. Establish all around security.
3. Identify recognizable near and far side rally points.
4. Conduct reconnaissance of near side and danger area.
5. Determine crossing method.
6. Designate near and far side security elements and responsibilities.
7. Establish far side security.
8. Execute crossing.
9. Ensure accountability.
10. Continue with the mission.

#### **ADMINISTRATIVE INSTRUCTIONS**

1. Danger area should be avoided unless it is determined to be most practical after METT-TSL analysis.
2. Applies to danger areas in any environment (i.e. jungle, MOUT).

#### **EXTERNAL SUPPORT**

1. Maneuver/Training area

#### **RELATED ITS**

340

#### **REFERENCES**

1. FMFM 6-4 Marine Rifle Company
  2. FMFM 6-5 Marine Rifle Platoon/Squad
  3. MCWP 3-11.3 Scouting and Patrolling
  4. MCWP 3-17.1 River-Crossing Operations
- 

### **EVENT: 0331 - 2 - 511**

Lead a unit in a passage of lines as moving unit

**Condition:** Given a unit and an order with a mission requiring conduct of a rearward or forward passage through friendly lines.

**Standard:** To move unit through lines, in accordance with higher headquarters' order.

## INFANTRY T&R MANUAL

### PREREQUISITES

0331 - 2 - 500

### PERFORMANCE STEPS

1. Issue passage of lines warning/fragmentary order.
2. Conduct radio coordination with stationary unit.
3. Ensure link-up with stationary unit guides at prescribed time.
4. Collocate with stationary unit leader to observe critical areas and to make timely decisions during conduct of the passage.
5. Conduct movement through passage point(s) through covered and concealed routes.
6. Ensure accountability of personnel and vehicles.
7. Conduct formal turnover of fire support assets and operating area. Communicate turnover with supporting agencies and higher headquarters.
8. Continue with mission.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### RELATED ITS

500

### REFERENCES

1. FMFM 6-4 Marine Rifle Company
  2. FMFM 6-5 Marine Rifle Platoon/Squad
  3. MCWP 3-11.3 Scouting and Patrolling
- 

### **EVENT: 0331 - 2 - 520**

Direct the employment of medium machineguns in offensive operations

**Condition:** Given a medium machinegun unit and an order with a mission to conduct offensive operations.

**Standard:** To provide effective medium machinegun fires in support of the ground scheme of maneuver.

### PERFORMANCE STEPS

1. Determine method of support for machinegun units.
2. Provide appropriate signals for commence, shift, and cease.
3. Direct positioning of machinegun units to best observe and support scheme of maneuver.
4. Provide infantry security for machinegun unit.
5. Ensure fires commence, shift, and cease on signal to support the attack.
6. Anticipate displacement requirements to ensure continuous support.
7. Direct positioning of machinegun units in preparation for counterattack.

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8. Reposition machinegun units for defense.

### ADMINISTRATIVE INSTRUCTIONS

1. If weapons platoon assets are attached, employment is directed by attached unit commander.
2. This includes all offensive operations to include MOUT/mechanized/fortified strong point.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### REFERENCES

1. FM 23-90 Mortars
  2. FM 90-10-1 Infantryman's Guide to Combat in Built-Up Areas
  3. FMFM 2-11 Anti-armor Operations
  4. FMFM 6-5 Marine Rifle Platoon/Squad
  5. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
  6. MCWP 3-35.3 Military Operations on Urbanized Terrain
- 

### **EVENT: 0331 - 2 - 526**

Lead a unit in defensive operations

**Condition:** Given a unit, an assigned area or sector from which to defend, and an order with a mission to conduct defensive operations.

**Standard:** To accomplish the intent of the higher headquarters' order.

### PERFORMANCE STEPS

1. Conduct map and physical reconnaissance of assigned area to determine the general lay of the defense, natural obstacles, likely enemy avenues of approach, and adjacent units.
2. Establish local security beyond proposed defensive area.
3. Coordinate with adjacent units.
4. Develop counterattack plan.
5. Establish crew served positions, ensuring mutual supporting fires. Identify final protective lines.
6. Identify subordinate unit primary positions. Ensure units tie in, at least by fire.
7. Identify dead space and cover by indirect fire.
8. Register final protective fires.
9. Ensure communications are established between units and to listening post/observation posts (LP/OP).
10. Designate alternate and supplementary positions.
11. Collect subordinate unit fire plan sketches. Submit consolidated fire plan sketch to higher headquarters.
12. Ensure positions are being improved and noise and light discipline is enforced. Ensure the sleep plan is implemented.

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### ADMINISTRATIVE INSTRUCTIONS

1. This includes all defensive operations, to include MOUT and countermechanized.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### REFERENCES

1. FM 90-10-1 Infantryman's Guide to Combat in Built-Up Areas
  2. FMFM 2-11 Anti-armor Operations
  3. FMFM 6-4 Marine Rifle Company
  4. FMFM 6-5 Marine Rifle Platoon/Squad
- 

### **EVENT: 0331 - 2 - 527**

Direct the employment of medium machineguns in support of defensive operations

**Condition:** Given a medium machinegun unit and an order with a mission to conduct defensive operations.

**Standard:** To provide effective medium machinegun fires in support of the ground scheme of maneuver.

### PERFORMANCE STEPS

1. Determine method of support and tentative primary defensive positions.
2. Determine type of fires to be employed, target precedence, and engagement criteria.
3. Emplace machineguns to best support defense.
4. Identify alternate and supplementary positions.
5. Ensure coordination is conducted with adjacent units.
6. Compile completed range cards, and ensure integration of fires, in accordance with defensive plan.
7. Supervise registration of fires.
8. Supervise delivery of fires for the defense and counterattack.

### ADMINISTRATIVE INSTRUCTIONS

1. If weapons platoon assets are attached, employment is directed by attached unit commander.
2. This includes all defensive operations, to include MOUT and countermechanized strong point.

### EXTERNAL SUPPORT

1. Maneuver/Training area

### REFERENCES

1. MCWP 3-15.1 Machine Guns and Machine Gun Gunnery
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INFANTRY T&R MANUAL

**EVENT:** 0331 - 2 - 531

Lead a unit in consolidation

**Condition:** Given a unit, an order, and a completed combat mission.

**Standard:** To prepare for follow-on missions and to repel enemy counterattack.

**PREREQUISITES**

0331 - 2 - 500

**PERFORMANCE STEPS**

1. Establish a hasty defense.
2. Pursue enemy by fire.
3. Prepare for continuation of the attack.
4. Continue reorganization to repel counterattack.
5. Inspect vehicle for completion of first echelon maintenance.
6. Conduct accountability of unit.
7. Direct required MedEvacs.
8. Direct redistribution/resupply.
9. Process enemy prisoners of war.
10. Submit required combat reports.
11. Prepare for follow-on mission.

**RELATED ITS**

500

**REFERENCES**

1. FMFM 6-4 Marine Rifle Company
  2. FMFM 6-5 Marine Rifle Platoon/Squad
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**EVENT:** 0331 - 2 - 542

Compile information to prepare SITREP and other required reports

**Condition:** Given an operational situation, appropriate status boards, maps, appropriate reports from subordinate and supporting units, overlays, and a unit journal within a battalion Combat Operation Center (COC).

**Standard:** To update the commander and inform him of changes during the reporting period.

**PERFORMANCE STEPS**

1. Establish contact with staff or unit representatives of subordinate or supporting units.
2. Obtain subordinate/supporting unit reports, as established per SOP.
3. Consolidate unit reports.
4. Assist in preparation of battalion level reports for submission to higher headquarters.

INFANTRY T&R MANUAL

5. Prepare and provide SITREP to the commander.

**REFERENCES**

1. MCRP 3-11.1A Commander's Tactical Handbook
  2. FMFM 3-1 Command and Staff Action
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