

# M119 Howitzer Manual

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*Operator's manual for howitzer,  
medium, self-propelled* 1983  
**Monthly Catalog of United States**

**Government Publications**  
**Commerce Business Daily** 1999-03  
Field artillery cannon battalion  
United States. Department of the Army

1979

**Technical Reports Awareness Circular**  
**: TRAC. 1989-04**

Army 1988

**Field Artillery Manual Cannon Gunnery**

Department of the Army 2017-08-19

Training Circular (TC) 3-09.81,

"Field Artillery Manual Cannon Gunnery," sets forth the doctrine pertaining to the employment of artillery fires. It explains all aspects of the manual cannon gunnery problem and presents a practical application of the science of ballistics. It includes step-by-step instructions for manually solving the gunnery problem which can be applied within the framework of decisive action or unified land operations. It is applicable to any Army personnel at the battalion or battery responsible to delivered field

artillery fires. The principal audience for ATP 3-09.42 is all members of the Profession of Arms. This includes field artillery Soldiers and combined arms chain of command field and company grade officers, middle-grade and senior noncommissioned officers (NCO), and battalion and squadron command groups and staffs. This manual also provides guidance for division and corps leaders and staffs in training for and employment of the BCT in decisive action. This publication may also be used by other Army organizations to assist in their planning for support of battalions. This manual builds on the collective knowledge and experience gained through recent operations, numerous exercises, and the deliberate process of informed reasoning. It is rooted in time-

tested principles and fundamentals, while accommodating new technologies and diverse threats to national security.

*Howitzer, Medium, Self-propelled, 155mm, M109A2 (2350-01-031-0586), M109A3 (2350-01-031-8851), M109A4 (2350-01-277-5770).* 1990

**Field Manual Fm 3-09.70 Tactics, Techniques, and Procedures for M109a6 Howitzer (Paladin) Operations August 2000** United States Government US Army 2012-05-23 Field manual (FM) 3-09.70 (6-70) is focused on Paladin-unique battalion, battery, platoon and section operations. It sets forth the doctrine pertaining to organization, equipment, command and control (C2), operations, and tactics, techniques, and procedures (TTP) for Paladin units. It establishes the duties and responsibilities of key Paladin

battery personnel for field operations. FM 3-09.70 is written for the Paladin battery and platoon, as well as for the battalion commander and staff. It is designed to be used in conjunction with the appropriate FM 6-series, FM 71-3, equipment technical manuals (TMs), Army training and evaluation program (ARTEP) mission training plans (MTPs), and soldiers' manuals. This FM supplements doctrine and TTP outlined in FM 6-50, TTP for the Field Artillery Cannon Battery and FM 6-20-1, TTP for the Field Artillery Battalion. As applicable, those TTPs for Paladin operations which do not differ significantly from those described in FM 6-50 or FM 6-20-1 are not repeated in this manual. FM 3-09.70 ties the doctrinal approach with the training strategies outlined

in the associated ARTEP 6-037-30-MTP, Mission Training Plan for the Consolidated Cannon Battery, M102, M119, M198, M109A5, M109A6. Refer to ARTEP 6-037-30-MTP for specific time standards regarding Paladin operations and fire missions.

**Operator's Manual (crew) 1979**

**Military Technologies of the World [2 volumes]** T.W. Lee 2008-12-30

From the introduction of gunpowder to the reigning era of nuclear weapons, military technological advances have been at the forefront of change. These changes in weaponry have influenced the outcome of many historical events and the downfall or success of major civilizations. All nations have sought to improve military technologies in the hope of gaining the upper hand in conflict. The developments in guns, cannon

technology, warships, tanks, and airborne and space weapons, have been crucial in the ever-changing face of war. While it is inherent in human nature to seek better weapons for survival, the use of this weaponry will continue to make an impact on history. Through careful examination of the science and engineering of these weapons, persons can continue to venture into the field of military weaponry with an outlook towards the future. Through the many advancements made in military weaponry, our civilization is one that continues to change in the face of war.

Technological advancements made in this area improve upon current war tactics and often are the basis behind military warfare. Technology has proven to transform history, lending itself to be one of the most

powerful assets of the human race. Breakthroughs in military technology prove to be at the forefront of war and in many cases the result of war is directly connected through these advancements. In history, major civilizations have seen their rise or downfall through the elevation of weapon technology. Lee delves into the engineering and science behind major weapons such as: guns, cannons, fighter and stealth aircrafts, various types of missiles, attack helicopters, aircraft carriers, nuclear submarines, main battle tanks and future weapons. He comprises the knowledge behind the weapons along with an understanding of how the weapons are used and applied to modern warfare. By showing how weapons have changed military warfare, he explains the human nature

to seek better weapons for survival, protection, and domination of resources.

Soldiers 1993

Standard Characteristics (dimensions, Weight, and Cube) for Transportability of Military Vehicles and Other Outsize/overweight Equipment (in TOE Line Item Number Sequence). 2004

**Manuals Combined: WARRIOR TRAINING CENTER Air Assault School Handbook, 101st Airborne Division (Air Assault) The Sabalauski Air Assault School Handbook & 101st Airborne Division (Air Assault) Gold Book** Air Assault

is a combat insertion unit using helicopters to transport and insert soldiers into battle, provide medical evacuation, provide close air support, provide resupply operations. It is usually a company or bat-talion

sized element. The term Air Assault derives from two types of operations known as Air Mobility and Vertical Envelopment. Air Mobility Operations were developed by the German Army during WWII in the 1930's. The US Army soon adopted this method of offensive operations in 1941 using wooden gliders. The glider was assisted into the air by being towed by a larger aircraft and then released. The pilot had to navigate the large glider loaded with a team of infantry soldiers to the landing zone behind enemy lines, at night and attempt to land safely. Once the pilot landed the glider, he would join the mission as another infantry soldier with the team that he flew in. Although the gliders and techniques used were advanced for that time period they did pose some

disadvantages. Once the aircraft was landed safely that team of soldiers were cut off from allied troops. Pilots had to be cross trained with infantry tactics so he could operate as both roles. The air mobility glider was abandoned after WWII after the invention of the helicopter. PREFACE 1 November 2011 1. The Sabalauski Air Assault School (TSAAS) is a FORSCOM TDA unit that trains leaders and Soldiers assigned to the 101st Airborne Division (Air Assault), as well as other Army units and armed services in several courses. By conducting the Air Assault and Pathfinder Courses The Sabalauski Air Assault School develops technically proficient and confident Soldiers capable of safely executing immediate and sustained air assault operations. The school also

trains and qualifies military Rappel Masters, Fast Rope Masters and SPIES Masters in the application of infiltration and extraction techniques. The school provides quality basic airborne refresher and jumpmaster refresher training to airborne capable units. Finally, the school provides command and control of the 101st Airborne Division (Air Assault), Screaming Eagle Parachute Team. 2. This handbook is designed to facilitate the mission of the school, serving as a baseline of information for the Air Assault Course. It is not a substitute for applicable Army regulations, field manuals, training circulars, or technical manuals, but it is designed to complement the guidance in these publications in the area of air assault operations. The 101st Airborne Division (Air Assault)

disclaims any responsibility for incidents occurring while applying these procedures. 3. The proponent for this handbook is the Commander of The Sabalauski Air Assault School. This 2011 update provides users with the latest doctrinal information regarding Air Assault Operations. Users of this publication are encouraged to recommend improvements or changes in writing to ACoFS, G3/5/7/DPTM; ATTN: AFZB-K-GT-AA, Fort Campbell, KY 42223-5000. The 101st Airborne Division (Air Assault) has a long and rich heritage. As the world's only functional Air Assault Division, the 101st Airborne has pioneered the development of Air Assault tactics, techniques and procedures (TTPs). These tactics were quantifiably demonstrated in 1991 during Operation Desert Storm and

most recently during Operation Enduring Freedom and Operation Iraqi Freedom. We are currently at war with dangerous and adaptive terrorist forces in complex environments. In response, the Division continually refines its TTPs, exploiting our unique capabilities to defeat our nation's enemies. This reference publication, The Gold Book June 2014, re-establishes the baseline for the planning and execution of Air Assault operations.

**The United States Army** Peter Tsouras  
1991

Principles of Artillery Weapons 1981  
*Field Artillery* 2007

**Standard Characteristics (dimensions, Weight, and Cube) for Transportability of Military Vehicles and Other Outsize/overweight Equipment (in TOE Line Item Number**

**Sequence)**. 1999

**Technical Manual TM 4-48. 05 (FM 4-20. 105) to 13C7-1-51 Airdrop of Supplies and Equipment: Dual Row Airdrop Systems May 2013** United States Government US Army 2013-06-03

The purpose of this manual is to provide the latest approved procedures for rigging Dual Row Airdrop System (DRAS) platforms. This manual is written for use by the parachute rigger. The procedures contained in this manual are typical and serve as the standard from which all DRAS platform rigging is derived. Chapters 1 and 2 contain specific limitations and general information about the rigging of DRAS airdrop platform loads for low-velocity airdrop from the C-17 (Globemaster) aircraft, shows and tells how to prepare, attach, and safety tie some



of the components and systems used in the specific rigging chapters of the TM 4-48.05 (FM 4-20.105 VOL I & II)/TO 13C7-1-51. This publication applies to the Active Army, the Army National Guard (ARNG)/Army National Guard of the United States (ARNGUS), and the United States Army Reserve (USAR), U.S. Air Force, Air National Guard (ANG), Air Force Reserve Command (AFRC). The proponent of this publication is the United States Army Training and Doctrine Command (TRADOC). The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or field operating

agency, in the grade of colonel or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity's senior legal officer. All waiver requests will be endorsed by the commander or senior leader of the requesting activity and forwarded through their higher headquarters to the policy proponent. Chapter 1 AIRDROP INFORMATION Chapter 2 RIGGING AND PROCEDURAL INFORMATION Chapter 3 RIGGING M998/M1038/M097 CARGO/TROOP CARRIER HMMWV ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 4 RIGGING M1025/M1121/M1114 ARMAMENT/TOW CARRIER HMMWV ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 5 RIGGING M119 105-MILLIMETER HOWITZER AND

ACCOMPANYING LOAD ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 6 RIGGING M101A1 OR M101A2, 3/4-TON CARGO TRAILER WITH ACCOMPANYING LOAD ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 7 RIGGING T200 BOBCAT COMPACT TRACK LOADER ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 8 RIGGING GUIDED MISSILE, SURFACE, ATTACK JAVELIN CONTAINER ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 9 RIGGING 105-MILLIMETER (MM) AMMUNITION MASS SUPPLY LOAD ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 10 RIGGING M-GATOR WITH ACCOMPANYING LOAD ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 11 RIGGING THE MASS SUPPLY LOAD ON DUAL ROW AIRDROP SYSTEM PLATFORM Chapter 12 RIGGING THREE 500-GALLON DRUMS ON A 18-FOOT, DUAL ROW AIRDROP SYSTEM PLATFORM FOR LOW VELOCITY AIRDROP (LVAD)

*Department of Defense Appropriations for ... United States. Congress. House. Committee on Appropriations 1990*

**Operator's Manual 1986**

Airdrop of Supplies and Equipment: Rigging 105-Millimeter Howitzers (FM 4-20. 119 / To 13C7-10-31) Department of the Army 2012-11-28 This manual shows how to rig the M102, M119, and M101A1 105-millimeter howitzers for low-velocity airdrop from a C-130 or C-17 aircraft. The manual includes procedures and equipment for rigging the M102 and M119 105-millimeter howitzer with the 1  $\frac{1}{4}$ -ton High Mobility Multipurpose Wheeled Vehicle (HMMWV) truck as the prime mover on a 32-foot, type V airdrop platform for low-velocity airdrop from a C-130 or C-17 aircraft. In addition, procedures are given for rigging two

M119 105-millimeter howitzers on a single platform with two different ammunition loads and with two 81-millimeter mortars for a low-velocity airdrop from C-130 or C-17 aircraft. The manual is designed for use by all parachute riggers.

*Tactics, Techniques, and Procedures for M109A6 Howitzer (Paladin)*

*Operations (FM 3-09.70)* Department Army 2012-12-01 Field manual (FM) 3-09.70 (6-70) is focused on Paladin-unique battalion, battery, platoon and section operations. It sets forth the doctrine pertaining to organization, equipment, command and control (C2), operations, and tactics, techniques, and procedures (TTP) for Paladin units. It establishes the duties and responsibilities of key Paladin battery personnel for field

operations. FM 3-09.70 is written for the Paladin battery and platoon, as well as for the battalion commander and staff. It is designed to be used in conjunction with the appropriate FM 6-series, FM 71-3, equipment technical manuals (TMs), Army training and evaluation program (ARTEP) mission training plans (MTPs), and soldiers' manuals. This FM supplements doctrine and TTP outlined in FM 6-50, TTP for the Field Artillery Cannon Battery and FM 6-20-1, TTP for the Field Artillery Battalion. As applicable, those TTPs for Paladin operations which do not differ significantly from those described in FM 6-50 or FM 6-20-1 are not repeated in this manual. FM 3-09.70 ties the doctrinal approach with the training strategies outlined in the associated ARTEP 6-037-30-MTP,

Mission Training Plan for the Consolidated Cannon Battery, M102, M119, M198, M109A5, M109A6. Refer to ARTEP 6-037-30-MTP for specific time standards regarding Paladin operations and fire missions.

**Operator's Manual for Howitzer, Medium, Self-propelled, 155mm, M109A2 (2350-01-031-0586) and 155mm, M109A3 (2350-01-031-8851).** 1991

*Index of Specifications and Standards*

**The Field Artillery Cannon Battery**

Department of the Army 2017-08-20  
Army Techniques Publication (ATP)  
3-09.50, "The Field Artillery Cannon Battery," provides doctrinal guidance for commanders and subordinate leaders who are responsible for conducting cannon battery functions or tasks. It serves as an authoritative reference for personnel responsible for developing: Doctrine

(fundamental principles; tactics, techniques, and procedures) material and force Structure, Institution and unit training, Tactical standard operating procedures for cannon battery units.

ASM Handbook ASM International.

Handbook Committee 1990 These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

Operator's, Organizational, Direct Support, and General Support Maintenance Manual 1990

**Department of Defense Appropriations for 1990: Chemical weapons and**

**demilitarization** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense 1989

**FM 4-20.119 Airdrop of Supplies and Equipment** U S Army 2021-04-17 This manual shows how to rig the M102, M119, and M101A1 105-millimeter howitzers for low-velocity airdrop from a C-130 or C-17 aircraft. The manual includes procedures and equipment for rigging the M102 and M119 105-millimeter howitzer with the 1 1/4-ton High Mobility Multipurpose Wheeled Vehicle (HMMWV) truck as the prime mover on a 32-foot, type V airdrop platform for low-velocity airdrop from a C-130 or C-17 aircraft. In addition, procedures are given for rigging two M119 105-millimeter howitzers on a single platform with two different

ammunition loads and with two 81-millimeter mortars for a low-velocity airdrop from C-130 or C-17 aircraft. The manual is designed for use by all parachute riggers.

**Ranger Handbook (Large Format Edition)** Ranger Training Brigade 2016-02-12 The history of the American Ranger is a long and colorful saga of courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of highly-trained and well-organized soldiers, US Army Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice-and

they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN:

9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673) Ranger Handbook Department Of The Army 2020-06-29

*The Field Artillery Cannon Battery*  
United States. Department of the Army  
1978

*Monthly Catalogue, United States*  
*Public Documents* 1990

**Annual Historical Review** Rock Island  
Arsenal (Ill.) 1994

**Department of Defense Provisioning**  
**and Other Preprocurement Screening**  
**Manual** United States. Office of the  
Assistant Secretary of Defense

(Manpower, Reserve Affairs, and  
Logistics) 1982

*Ordnance* 1989

**Jane's International Defense Review**  
2004

**Department of Defense Appropriations**  
**for 1990** United States. Congress.  
House. Committee on Appropriations.  
Subcommittee on Department of Defense  
1989

**Transportability Guidance** 1990