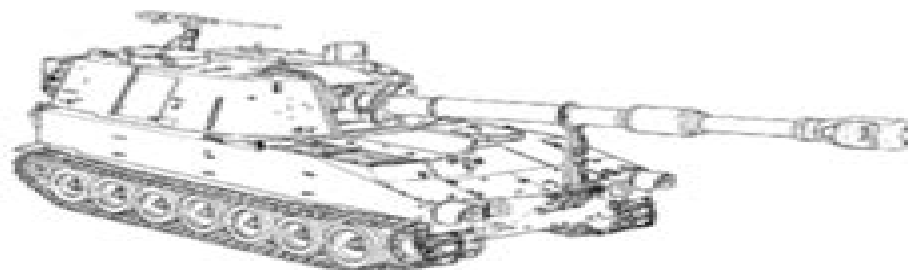


DEPARTMENT OF THE ARMY
TECHNICAL MANUAL

OPERATOR'S MANUAL
FOR
HOWITZER, MEDIUM, SELF-PROPELLED,
155MM
M109A2 (2350-01-031-0586)(EIC:3EZ)
M109A3 (2350-01-031-8851)(EIC:3E2)
M109A4 (2350-01-277-5770)(EIC:3E8)
M109A5 (2350-01-281-1719)(EIC:3E7)



TM 9-2350-311-10
Supersedes TM 9-2350-311-10
and LO 9-2350-311-12, dated
June 1986, and all changes

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DISTRIBUTION: To be distributed in accordance with the Initial Distribution Number (IDN)
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HEADQUARTERS, DEPARTMENT OF THE ARMY

M119a2 Howitzer Technical Manual

Victor M. Corman



M119a2 Howitzer Technical Manual:

Operator's Manual for Howitzer, Medium, Self-propelled, 155mm, M109A2 (2350-01-031-0586) and 155mm, M109A3 (2350-01-031-8851). ,1989 **Operator's manual for howitzer, medium, self-propelled** ,1983

Technical Manual United States. War Department,1945 **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 de veloped 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

Operator's Manual for Howitzer, Medium, Self-propelled ,1983 Technical Manual TM 4-48.19 (FM 4-20.119 & FM 4-20.127) to 13C7-10-31 Airdrop of Supplies and Equipment United States Government Army,2013-08-18 This manual Technical Manual TM 4 48 19 FM 4 20 119 FM 4 20 127 TO 13C7 10 31 Airdrop of Supplies and Equipment Rigging Howitzers shows how to rig the M101A1 M102 and M119A2 105 millimeter howitzers and the M198 and M777A2 155 mm howitzers on the Type V platform for low velocity airdrop from C 130 or C 17 aircraft This manual includes procedures and equipment for rigging the M102 and M119A2 105 millimeter howitzer with the 1 ton High Mobility Multipurpose Wheeled Vehicle HMMWV truck as the prime mover on a 32 foot Type V airdrop platform In addition procedures are given for rigging two M119A2 105 millimeter howitzers on a single platform with two different ammunition loads and with two 81 millimeter mortars for a low velocity airdrop 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 unless otherwise stated 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

Operator's Manual for Howitzer, Medium, Self-propelled, 155mm, M109A2 (2350-01-031-0586) and 155mm, M109A3 (2350-01-031-8851). ,1991 **Tm9-325 105mm Howitzer M2a1 Technical Manual** Department of the Army,2013-05-01 The 105 mm M2A1 Howitzer was the standard light field artillery piece for the United States in World War II seeing action in both the European and Pacific theaters Starting production in 1941 it quickly entered the war against the Imperial Japanese Army in the Pacific where it gained a reputation for its accuracy and powerful punch The M2A1 fired 105 mm high explosive HE semi fixed ammunition and had a range of 11 270 meters making it suitable for supporting infantry All of these qualities of the weapon along with its widespread production led to its adoption by many countries after the war Its ammunition type also became the standard for many foreign countries later models In 1962 the artillery designation system was changed and the 105 mm M2A1 Howitzer became the M101A1 It continued to see service in the Korean and Vietnam Wars Today the M101A1 has been retired by the U S military though it continues to see service with many other countries Created in 1948 this technical manual reveals a great deal about the M2A1 Howitzer s design and capabilities Intended as a manual for those charged with operation and maintenance it details many aspects of its firing recoil and other mechanisms

Originally labeled restricted this manual was declassified long ago and is here reprinted in book form Care has been taken to preserve the integrity of the text *Operator's Manual for Howitzer, Light, Towed, 105-mm, M102 (1015-00-086-8164)*. ,1985 **Operator's Manual (crew)** ,1979 **War Department Technical Manual** ,1945 **TM 9-331 155-MM Howitzer M1 and 155-MM Howitzer Carriage M1: Technical Manual** War Department,2013-05-01 The 155 mm Howitzer M1 was first produced in 1942 as a medium artillery piece It saw service with the US Army during World War II the Korean War and the Vietnam War before being replaced by the M198 Howitzer The gun was used by the armed forces of many nations and in some countries it still remains in service The 155 mm Howitzer was developed as an afterthought A new carriage was under development for much of the 1930s for the existing World War I era M1918 until 1939 when it was realized that it did not seem logical to put a new carriage underneath an obsolete howitzer Consequently development began anew with a carriage designed to be used for the 155 mm Howitzer This was completed by May 15th 1941 when the Howitzer M1 on the Carriage M1 was standardized The howitzer itself differed from the older model by a lengthened barrel of twenty calibers and a new breech mechanism Uniquely it was the sole slow cone interrupted screw mechanism to enter service after 1920 This meant that two separate movements were necessary to open the breech versus the single movement of the steep cone mechanism that simultaneously rotated and withdrew the breech Created in 1943 this technical manual reveals a great deal about the 155 mm Howitzer M1 s design and capabilities Intended as a manual for those charged with operation and maintenance it details many aspects of its assembly ammunition and accessories Originally labeled restricted this manual was declassified long ago and is here reprinted in book form Care has been taken to preserve the integrity of the text *Field Artillery* ,2003 **Technical Manual** United States. War Department,1941 **Technical Manual** United States. War Department,1943 **75-mm Howitzer Matériel** ,1941 **FM 6-81 155-MM Howitzer M1 Field Manual** Department of the Army,2013-06 The 155 mm Howitzer M1 was first produced in 1942 as a medium artillery piece It saw service with the US Army during World War II the Korean War and the Vietnam War before being replaced by the M198 Howitzer The gun was used by the armed forces of many nations and in some countries it still remains in service The 155 mm Howitzer was developed as an afterthought A new carriage was under development for much of the 1930s for the existing World War I era M1918 until 1939 when it was realized that it did not seem logical to put a new carriage underneath an obsolete howitzer Consequently development began anew with a carriage designed to be used for the 155 mm Howitzer This was completed by May 15th 1941 when the Howitzer M1 on the Carriage M1 was standardized The howitzer itself differed from the older model by a lengthened barrel of twenty calibers and a new breech mechanism Uniquely it was the sole slow cone interrupted screw mechanism to enter service after 1920 This meant that two separate movements were necessary to open the breech versus the single movement of the steep cone mechanism that simultaneously rotated and withdrew the breech Created in 1948 this field manual reveals a great deal about the 155 mm Howitzer M1 s design and capabilities

Intended as a manual for those in the service of the piece it details many aspects of the M1 s assembly maintenance and accessories Originally labeled restricted this manual was declassified long ago and is here reprinted in book form Care has been taken to preserve the integrity of the text **United States Army Combat Forces Journal** ,1988 *Dog Company*

Lynn Vincent,Roger Hill,2025-05-01 Now with a forward by Sean Hannity this powerful story of brotherhood bravery and patriotism exposes the true stories behind some of the Army s darkest secrets The Army does not want you to read this book It does not want to advertise its detention system that coddles enemy fighters while putting American soldiers at risk It does not want to reveal the new lawyered up Pentagon war ethic that prosecutes U S soldiers and Marines while setting free spies who kill Americans This very system ambushed Captain Roger Hill and his men Hill a West Point grad and decorated combat veteran was a rising young officer who had always followed the letter of the military law In 2007 Hill got his dream job infantry commander in the storied 101st Airborne His new unit Dog Company 1 506th had just returned stateside from the hell of Ramadi The men were brilliant in combat but unpolished at home where paperwork and inspections filled their days With tough love Hill and his First Sergeant an old school former drill instructor named Tommy Scott turned the company into the top performers in the battalion Hill and Scott then led Dog Company into combat in Afghanistan where a third of their men became battlefield casualties after just six months Meanwhile Hill found himself at war with his own battalion commander a charismatic but difficult man who threatened to relieve Hill at every turn After two of his men died on a routine patrol Hill and a counterintelligence team busted a dozen enemy infiltrators on their base in the violent province of Wardak Abandoned by his high command Hill suddenly faced an excruciating choice follow Army rules the way he always had or damn the rules to his own destruction and protect the men he d grown to love

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web part i you must simplify your answer when possible but you don't need to compute numbers $e^6 \sin 12.58$ is a ne answer
 all problems in part i are 4 points each use the definition of the derivative to show that the derivative of the function $f(x) = x^2$ is $f'(x) = 2x$ find the derivative $f'(x)$ if $f(x) = x^2 \sin x$

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web precalculus final exam practice problems example solve $\cos^2 x \cos x = 0$ algebraically for exact solutions in the interval $[0, 2\pi]$
 $\cos^2 x \cos x = \cos^2 x \sin^2 x \cos x = \cos^2 x (1 - \cos^2 x) \cos x = \cos^2 x \cos x - \cos^4 x \cos x = \cos^3 x - \cos^5 x = 0$ let $y = \cos x$ then $\cos^2 x \cos x = 2\cos^2 x \cos x = 1 - 0 = 2y^2 - y = 0$ $y = 0$ or $y = \frac{1}{2}$
 $b = 2$ $4a = 2a = 1$ $1 = 8$ $4 = 1$ $3 = 4$ 2

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web may 28 2020 problem 6.1.1.5 6.1.1.5 calculate the number of moles and the mass of the solute in each of the following solutions
 a) 2.00 L of 18.5 M H₂SO₄ concentrated sulfuric acid
 b) 100.0 mL of 3.8105 M NaCN the minimum lethal concentration of sodium cyanide in blood serum

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 solution in a logistic regression the response variable y is an indicator saying whether or

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