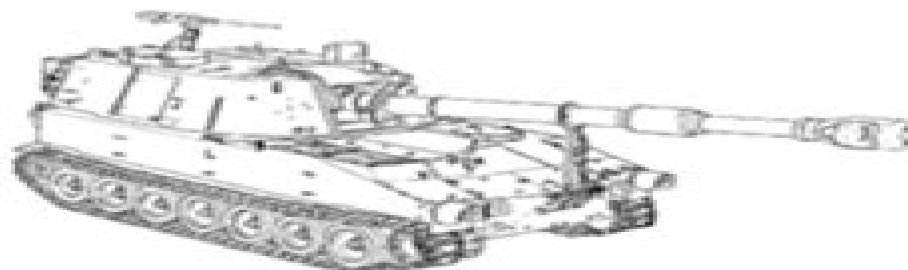


DEPARTMENT OF THE ARMY  
TECHNICAL MANUAL

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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# Howitzer Technical Manual

**Xiaolong Qi**



## **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* ,1989 **Operator's Manual (crew)** ,1979 Ordnance Maintenance, Quadrant Sights, M1917, M1917A1, M1918, and M1918A1 United States. War Department,1941

**Operator's manual for howitzer, medium, self-propelled** ,1983 Operator's Manual for Howitzer, Light, Towed, 105-mm, M102 (1015-00-086-8164). ,1985 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 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 Technical Manual for Direct Support and General Support Maintenance for Cab, Armament, Elevating and Traversing Systems, and Associated Components, Howitzer, Medium, Self-propelled, 155mm, M109A2 (2350-01-031-0586), M109A3 (2350-01-031-8851). ,1986 **Technical Manual** United States. War Department,1943 **Department of the Army Technical Manual for Direct Support and General Support Maintenance for Cab, Armament, Elevating and Traversing Systems, and Associated Components** ,1986 Technical Manual United States. War Department, *War Department Technical Manual* ,1940 **Technical Manual** ,1941 **Operator's Manual for Howitzer, Medium, Self-propelled, 155mm, M109A1 (2350-00-440-8811) 155mm, M109A1 (2350-00-485-9662) and 155mm, M109A3 (2350-01-031-8851).** United States. Department of the Army,1978 **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 **Direct Support and General Support Maintenance Manual for Howitzer, Medium, Towed, 155-mm, M198 (1025-01-026-6648).** ,1980 **Operator & Organizational Maintenance Manual for Howitzer, Light, Towed** United States. Army Weapons Command. Artillery Weapons Systems Directorate,1972 *Military Occupational Specialties Manual (MOS Manual).* United States. Marine Corps,1991 **75-mm Howitzer Matériel** ,1941

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