

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL
MAINTENANCE MANUAL

ARMORED
RECONNAISSANCE/AIRBORNE
ASSAULT VEHICLE

FULL-TRACKED, 152-MM, M551
2350-873 5408

HEADQUARTERS, DEPARTMENT OF THE ARMY
JUNE 1966

This copy is a reprint which includes current pages from Changes I through 14 . Pen-and-ink changes to be made are listed. For Crew Operating and Maintenance Instructions, refer to TM 9-2350-23010-1, 29 November 1974, TM 9-2350-230-10/2-1, 31 March 1973, TM 9-2350-230-10-2-2, 31 March 1973, and TM 9-2350-230-102-3, 6 January 1974. For Organizational Maintenance of the Hull and Suspension, refer to TM 9-2350-230-20-1, 15 February 1975.

Technical Manual

No. 9-2350-230-12

HEADQUARTERS
DEPARTMENT OF THE ARMY
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**Operator and Organizational Maintenance Manual
ARMORED RECONNAISSANCE/AIRBORNE ASSAULT VEHICLE
FUU-TRACKED, 152-MM, M551
(2350-873-5408)**

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CHAPTER 1
INTRODUCTION

Section 1-1. SCOPE, SECURITY CLASSIFICATION,
MAINTENANCE ALLOCATION, RECORDS, REPORTS, AND
EQUIPMENT SERVICEABILITY CRITERIA

1-1. Scope

This manual contains operating and organizational maintenance instructions for the Armored Reconnaissance/Airborne Assault Vehicle: Full Tracked, 152MM, M551. Other applicable publications are referenced in Appendix I.

1-2. Shillelagh Missile Subsystem Security Classification.

Commander's responsibility and classification data TB 9-380-101.

1-2.1. Lubrication

Refer to LO 9-2350-230-12 for crew/operator lubrication instructions.

1-3. Maintenance Allocation

The maintenance allocation chart (Appendix III) allocates maintenance responsibilities.

1-5. Description

The M551 (figures 1-1 and 1-2) is a light weight, full tracked, deisel powered armored reconnaissance/airborne assault vehicle. It is capable of amphibious operation and can be transported and air-dropped by heavy assault glider or cargo aircraft. Armament consists of a 152MM gun/launcher mounted to a 360-degree rotatable turret and capable of firing either conventional ammunition or guided missiles; a 7.82MM machine gun mounted coaxially with the gun/launcher; a cal. .50 machine gun mounted to the commander's power assist cupola, which is capable of 360-degree rotation; and eight fixed-mount grenade launchers, four on each side of the turret. M551 vehicles equipped with M81 gun/launcher employ a CO₂

1-4. Forms, Records, Reports, and Equipment Serviceability Criteria

- a. Forms and Records. TM 38-750.
- b. Field Report of Accidents.
 - (1) Injury to personnel or damage to materiel. AR385-40.
 - (2) Ammunition accident or malfunction. AR 75-1.
- c. Serviceability Criteria. TM 9-2350-230ESC.
- d. Errors and Omissions. Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded directly to Commanding General, US Army Tank-Automotive Command, ATTN: AMSTA-MAPC, Warren, Michigan 48090

Section 1-2. DESCRIPTION AND DATA

bore and breech scavenging system to clear the gun/launcher of residue and/or gases resulting from firing. Later vehicles are equipped with the M81EI gun/launcher, which employs a compressed air closed-breech scavenging system for the same purpose.

1-6. Tabulated Data

a. General

Crew (1-commander, 1-driver,
1-loader, 1-gunner..... 4
Weight Classification No. 20 (Tons)
Weight, combat loaded 33,460 lb
Weight, curb (less fuel, crew,
and basic issue items) 28,525 lb
Weight, total air drop rate 35,00 lb max