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TM 9-1729A

WAR DEPARTMENT TECHNICAL MANUAL

ORDNANCE MAINTENANCE

37

**LIGHT TANKS M5, M5A1,
AND M24, 75-MM HOWITZER
MOTOR CARRIAGE M8, AND
TWIN 40-MM GUN
MOTOR CARRIAGE M19:
ENGINES, COOLING SYSTEMS
AND FUEL SYSTEMS**

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This manual, together with TM 9-1825A, dated 12 January 1944 and TM 9-1826A, dated 11 February 1944, supersedes TM 9-1727B, dated 4 January 1943 and TM 9-1732A, dated 21 September 1942, with the exception of the sections relating to fuel pumps. These sections will be superseded by TM 9-1828A when it is published.

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MOTOR CARRIAGE M8, AND
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MOTOR CARRIAGE M19:
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Washington 25, D. C., 28 November 1944

TM 9-1729A, Ordnance Maintenance: Light Tanks M5, M5A1, and M24, 75-mm Howitzer Motor Carriage M8, and Twin 40-mm Gun Motor Carriage M19—Engines, Cooling Systems, and Fuel Systems, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

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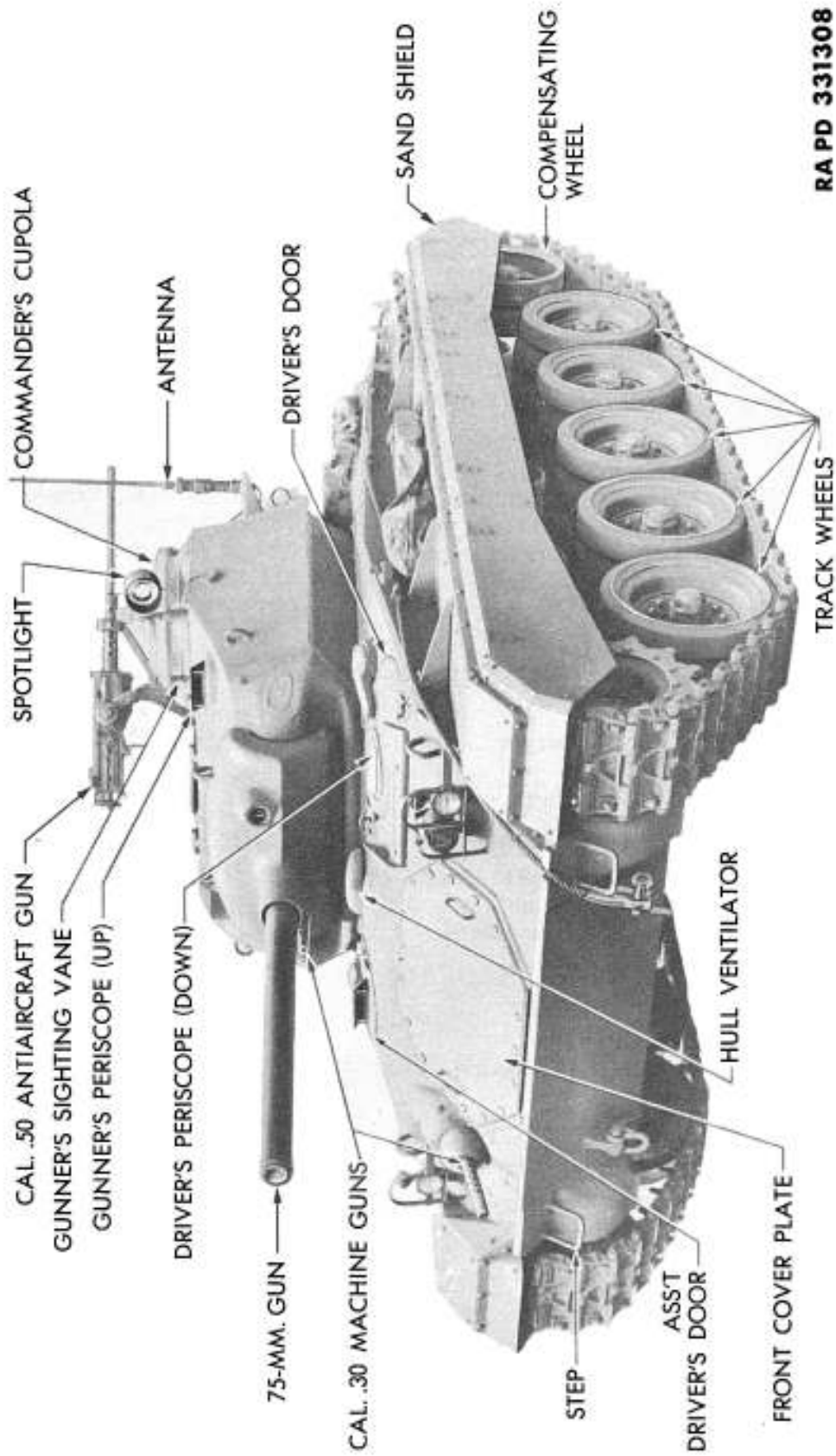
(For explanation of symbols, see FM 21-6.)

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ORDNANCE MAINTENANCE – LIGHT TANKS M5, M5A1, AND M24, 75-MM HOWITZER MOTOR CARRIAGE M8, AND TWIN 40-MM GUN MOTOR CARRIAGE M19: ENGINES, COOLING SYSTEMS AND FUEL SYSTEMS



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Figure 1 — Light Tank, M24

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CHAPTER 1

INTRODUCTION

1. SCOPE.

a. The instructions contained in this manual are for the information and guidance of personnel charged with the maintenance and repair of Light Tanks M5, M5A1, and M24, and Motor Carriages M8 and M19. These instructions are supplementary to Field and Technical Manuals prepared for the using arms. This manual does not contain information which is intended primarily for the using arms, since such information is available to Ordnance maintenance personnel in 100-series TM's or FM's.

b. This manual contains a description of, and procedure for disassembly, cleaning, inspection, repair and assembly of the engines, and of components of the cooling systems and fuel systems. Included are the 1G series engines used on M5, M5A1, and M8 vehicles, and the 3G series used on M19 and M24 vehicles.

c. TM 9-1729B contains description and procedure for disassembly, cleaning, inspection, repair and assembly of the transmission, transfer unit, propeller shafts, controlled differential and final drives of Light Tank M24 and Twin 40-mm Gun Motor Carriage M19.

d. TM 9-1729C contains the same essential information on the hull, turret, electrical system and track suspension of the Light Tank M24 and Twin 40-mm Gun Motor Carriage M19.

e. TM 9-1727K contains description and procedure for disassembly, cleaning, inspection, repair and assembly of the hydraulic traversing mechanism in these vehicles.

f. TM 9-1825A contains description and procedure for disassembly, cleaning, inspection, repair and assembly of the electrical components in these vehicles.

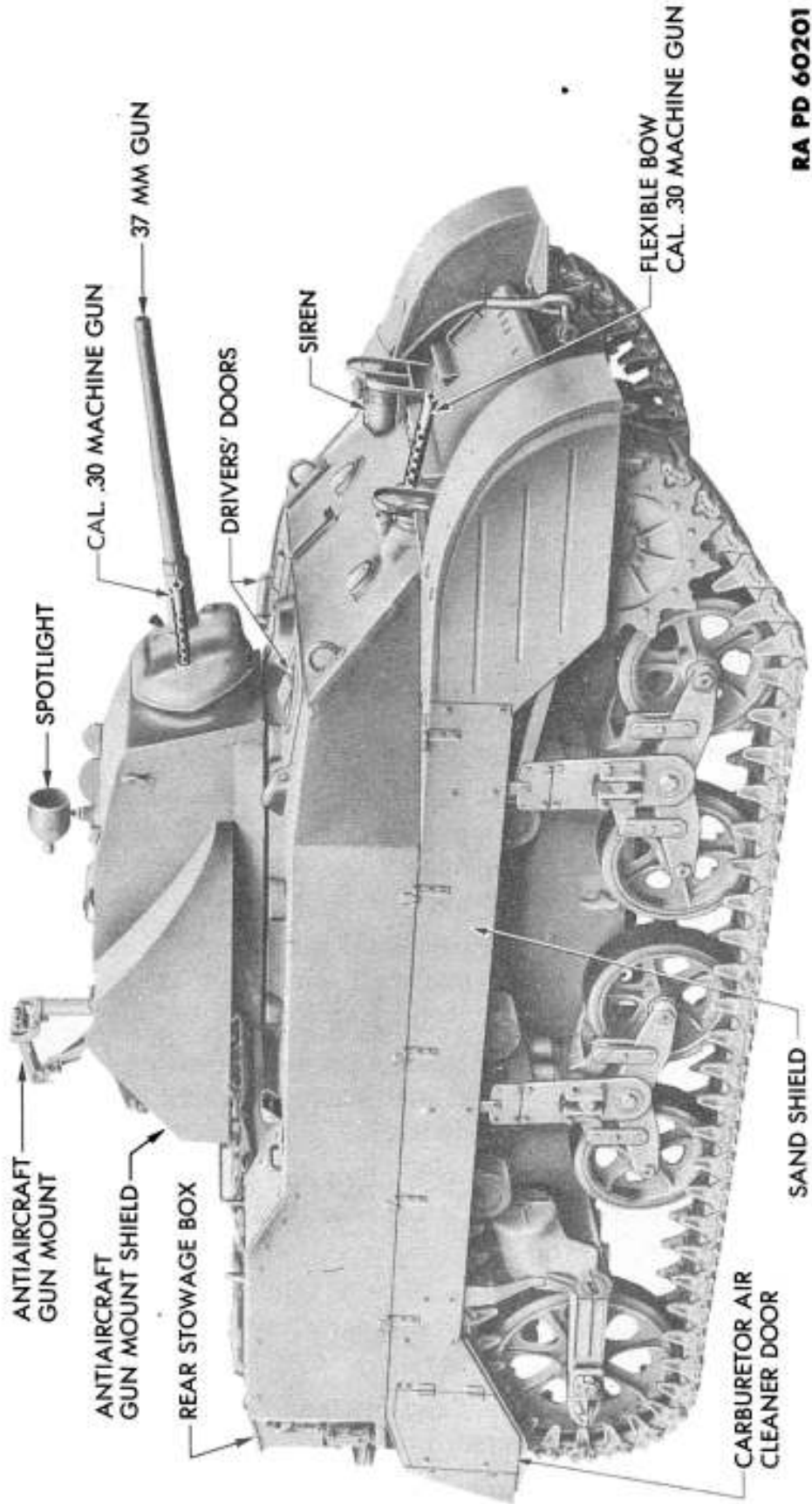
g. TM 9-1826A contains description and procedure for disassembly, cleaning, inspection, repair and assembly of the carburetors for these vehicles.

h. TM 9-1828A contains description and procedure for disassembly, cleaning, inspection, repair and assembly of the fuel pumps for these vehicles.

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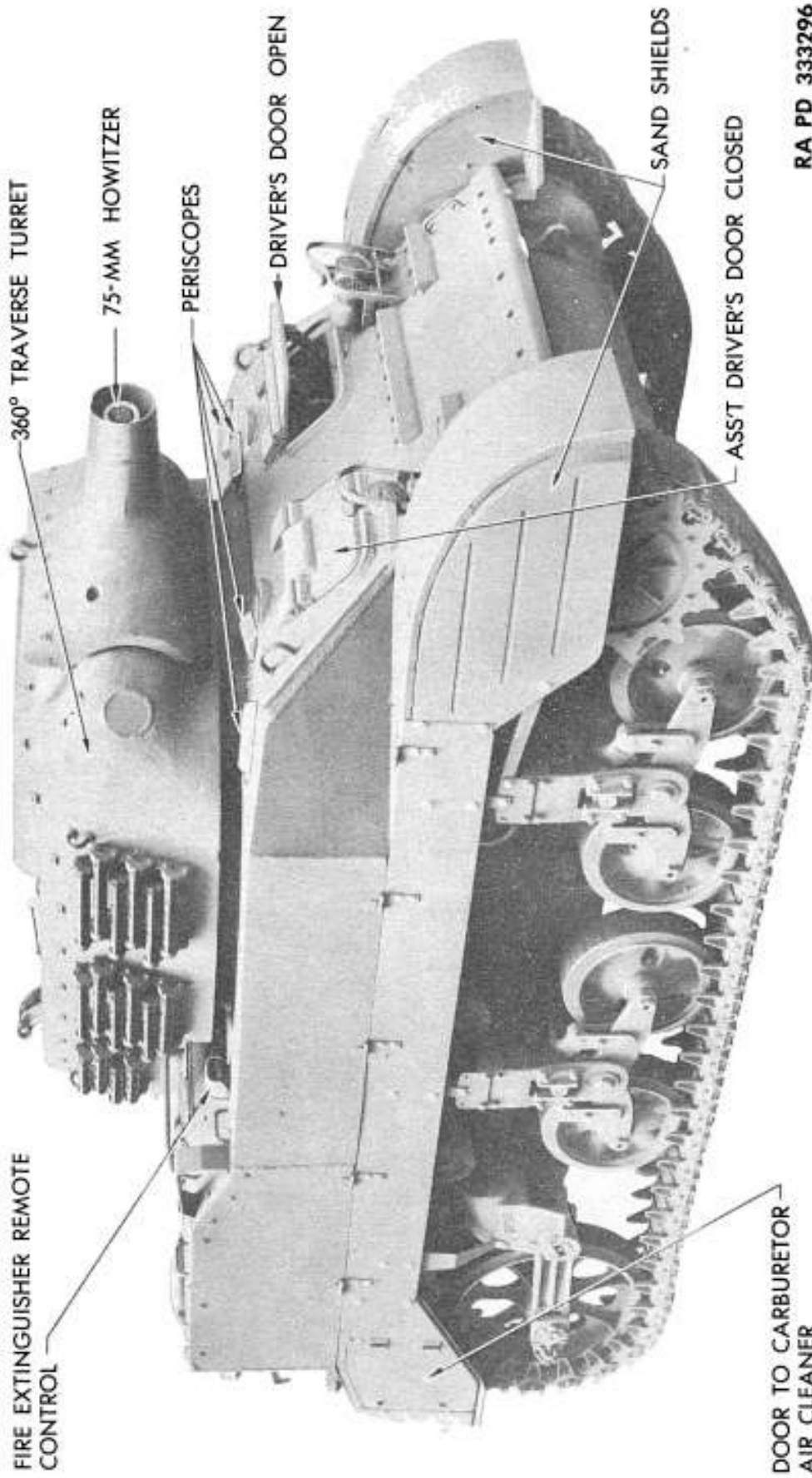


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Figure 2 — Light Tank, M5A1

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INTRODUCTION

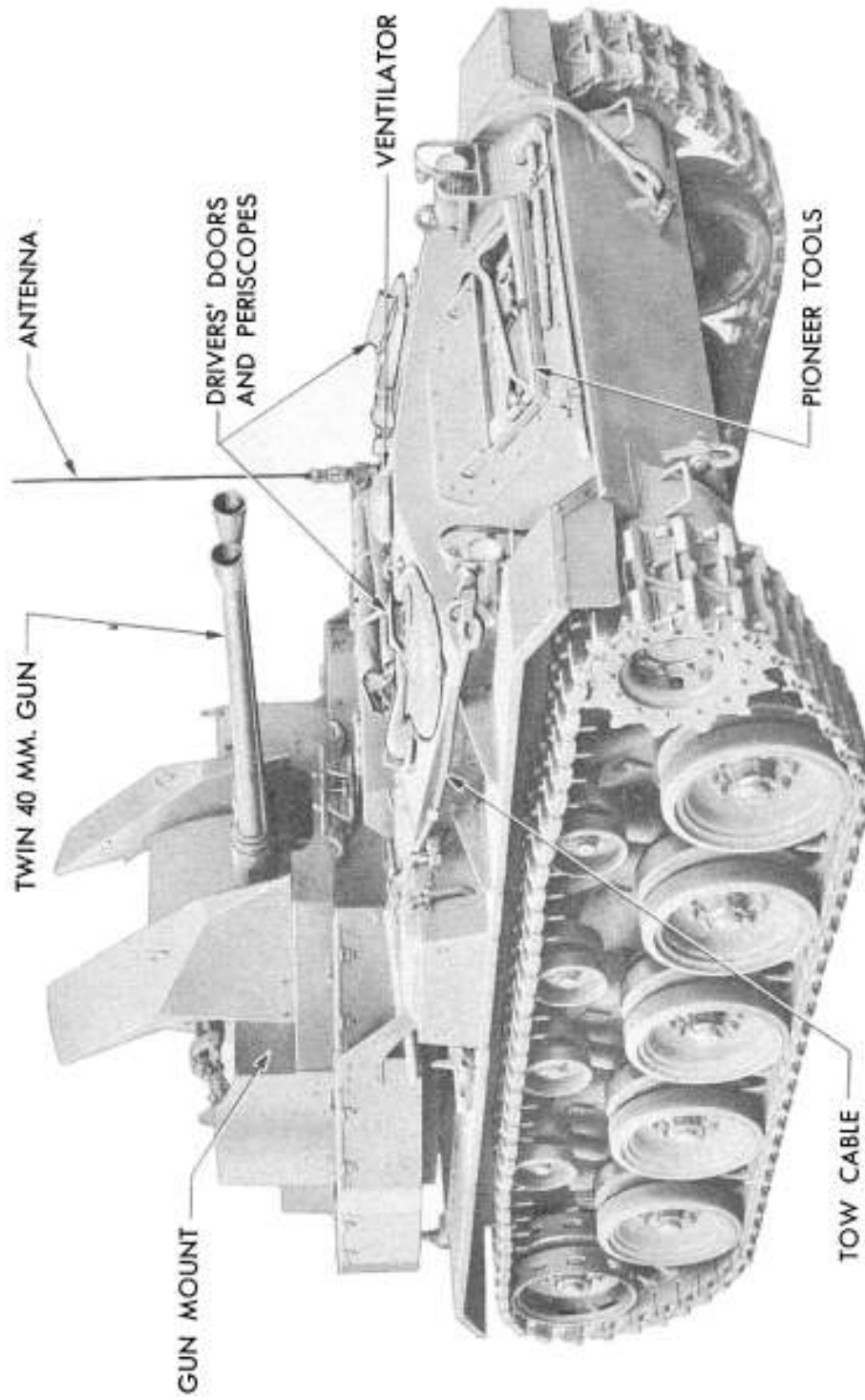


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Figure 3 — 75-mm Howitzer Motor Carriage M8

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Figure 4 — Twin 40-mm Gun Motor Carriage, M19