UNITED STATES MARINE CORPS Motor Transport School Company Marine Corps Service Support Schools Marine Corps Base Camp Lejeune, North Carolina 28542

> AOMC VII-1 Nov 1982

INTRODUCTION TO THE M939 SERIES VEHICLES

Student Outline

LESSON PURPOSE: To impart to the student the fundamental background information peculiar to the M939 series vehicles.

REQUIRED RESOURCES: None

ADDITIONAL RESOURCES: None

HERE'S WHAT TO DO:

1. Attend Introduction lecture.

2. Fill in student handout.

INFORMATION:

The M939 series vehicle is a new series of vehicles in the Marine Corps. Your attention to detail will make you a more knowledgeable mechanic in the field.

OUTLINE:

1. Characteristics of the M939 Series Vehicle.

a. The truck cargo, 5 Ton, 6X6, M939 series is a tactical vehicle, designed for use on all types of roads, highways, cross country terrain, and extreme <u>crick</u> operations.

b. The M939 series vehicles are an improved version of the $\underline{M-809}$ series vehicle. These improved versions make the M939 more <u>Reliable</u> and easier to operate.

c. There are <u>Fight</u> major improvements made to the M939 series vehicle. They are:

- (1) an automatic transmission. Allison M.T. : 54CR
- (2) a power steering unit. HydRAlic Assist Cylinder on (R) front Lin KADE

47 gt TotAL

(3) a complete air brake system. Foctuell STANdARd STOP MHSTER Wedge.

(4) an improved cooling system. Which Holds 5 gts more coolant.

Vehicles in the M939 Series Family. 3.

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a. Basically, there are seven vehicles in the M939 Family; and with the addition of winches and extra length wheel bases, the family grows to thirteen vehicles. They are:

> (1) M923 Cargo truck without winch and with drop sides. This is what you will be working on

(2) M924 Cargo truck without winch, & PROPSIde

(3) M925 Cargo truck with winch and drop sides. 923 with winch

Cargo truck with winch. (4) M926

Cargo truck without winch, with extended length wheel base. M927 (5)

Cargo truck with winch and extended length wheel base. M928 (6)

Dump truck without winch. (7) M929

Dump truck with winch. (8) M930

Tractor truck without winch. (9) M931

Tractor truck with winch. (10) M932

Expandable van without winch (11) M934

(12) M935 Expandable van without winch with hydraulic lift gate.

(13) M936 Medium wrecker with winch.

4. STE/ICE.

a. STE/ICE is an acronym for: <u>SIMPLIFIED TEST EQUIPMENT FOR INTERNAL</u> COMBUSTION ENGINES.

b. STE/ICE provides the functional capability for a <u>TRAINED</u> mechanic to rapidly perform all essential tests and measurements on the internal combustion engine and it's accessories.

c. The M939 is the first vehicle which has <u>permently</u> <u>mounded</u> connectors for the STE/ICE system.

5. Performance of the M939 Series Vehicles.

a. A fully loaded M923 and M925 dropside cargo truck can achieve a maximum speed of 52 miles per hour.

b. They will climb road grades as steep as 23 degrees with a maximum load.

c. Without a load, they will climb a 34 degree grade.

d. This vehicle, without a fording kit, will ford 30 inches of water with a hard bottom surface and 72 inches of water with a fording kit.

e. The cruising range of a fully loaded truck is 350 miles per tank of diesel fuel.

f. The turning radius is 39 feet.

