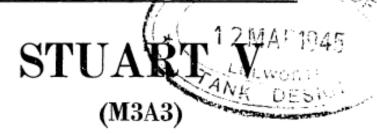
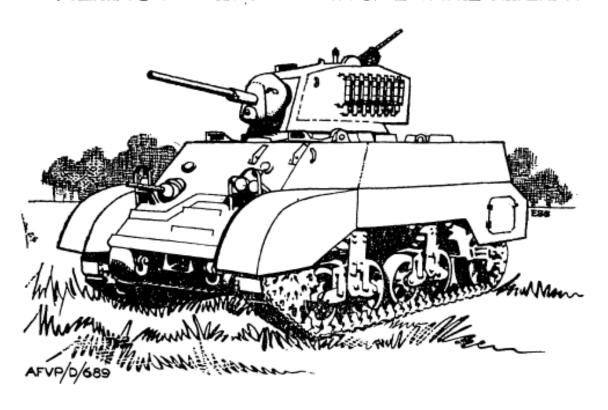
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VEHICLE TRAINING PAMPHLET



Without prejudice to any War Office publication on this subject which may be issued.



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STUART V VEHICLE TRAINING PAMPHLET

SECTION 1

INTRODUCTION

All the sections of this pamphlet, except Section 4, deal with the vehicle as a composite fighting machine complete with armament and wireless.

The Instructional Notes in Section 4 do not cover Armament and Wireless. The equivalent notes for the former appear in the Stuart V and VI Armament Pamphlet (AFVP/GI/30 Oct., 1944) to which this pamphlet is a companion, and Wireless is covered in the 19 Set "Working Instructions." These three pamphlets, together with the lesser publications listed in Section 2 (a), provide the crew with all the knowledge they require to take over and successfully operate a Stuart V tank.

It is necessary to explain the purpose of this pamphlet in relation to that of the Service Instruction Books listed in Section 2 (b). The latter are comprehensive text books and should be treated as works of reference, in contrast to this pamphlet which is a guide to immediate and essential requirements for training.

This pamphlet has consequently been designed to ensure that all information in it is of direct practical value to the Tank Crew; superfluous information on construction and design has been deliberately omitted on the principle that knowledge which cannot be applied is valueless.

The three main sections in this pamphlet are:-

SECTION 4.—Instructional Notes. The whole of this section is designed to teach the crew:—

- How to operate the vehicle.
- (ii) How to maintain the vehicle.
- (iii) Howe to detect and rectify defects known to arise on the vehicle

(Introduction)

Instruction under (i) covers every control in the vehicle, not merely driving controls. It covers the correct method of using each control and describes abuses which are to be avoided. Reasons are given for operating the controls in the particular manner described and an explanation of the functioning of the components involved is given only when such explanation directly assists the crew to follow out the correct method.

Under (ii) complete directions are given for carrying out every item of routine maintenance and the instructions cover correct method, object and description of damage which will result from neglect.

Under (iii) all defects which experience has shown are likely to arise at least once in the overhaul life of the vehicle are treated as follows:—

Nature of defect; Symptoms; Cause; Remedy.

Any instruction in this section which does not deal directly with the three subjects (i), (ii) and (iii) above, is included only for the purpose of making instruction on these subjects intelligible.

It will be found that the vehicle has been treated under various main headings as shown under CONTENTS. In accordance with the preceding paragraphs, the headings under Contents, Section 4 (6 to 18 inclusive) have been treated under the sub-headings:—

- (a) Description—as required to make (b), (c) and (d) intelligible.
- (b) Operation of controls (including switches, gauges and taps).
- (c) Maintenance.
- (d) Defects.

if applicable.

IMPORTANT NOTE.—The sub-headings (a), (b), (c) and (d) above do not include instruction which should normally have been taught in General Principles. For example, the sub-heading (c) "Maintenance" gives instruction only on those items of maintenance which are peculiar to the vehicle. Thus, normal lubrication, checking of nuts and bolts, etc., have omitted from this Section; they are, however, detailed in Section 5, Parade Maintenance.

SECTION 5.—Parade Maintenance. This section describes the organisation for regulating and recording the maintenance of the vehicle. It details when the maintenance will be carried out; who will do it and explains, how it should be recorded.

Details of Crew Drill applying to this vehicle are also given in this Section.

SECTION 7.—Guide to Vehicle Inspection. This section gives a detailed guide to inspection of the Vehicle, Armament and Wireless and explains how it is to be used in conjunction with the standard report forms.

SECTION 2

BIBLIOGRAPHY

(a) The following publications are required to complete the crew's technical training on the vehicle.

Mechanical.

Crew Duty Card AFVP/CD & M/55 (supersedes AFVP/CD & M/25).

Armament.

- (i) Stuart V and VI (Armament) AFVP/GI/30 Oct. 1944.
- (ii) Range practices: M.T.P. No. 34 Part 6 1944.
- (iii) Smoke: AFVP/GI/4.
- (iv) Fire tactics: M.T.P. No. 34 Part 4.
- (v) The machine carbine: S.A.T. Vol. 1, Pamphlet No. 21 1944.
- (vi) Grenades: S.A.T. Vol. 1, Pamphlet No. 13.
- (vii) How to use your eyes in the dark: AFVP/MSC/17.

Inter-communication.

Wireless Set No. 19 Mark I, II and III.

Working instructions No. 19 set: Part 1 ZA. 21575 (P.C. Ref. No. 65707).

 (b) The following publications are given to assist unit technical personnel to select the appropriate technical literature to cover all aspects of the vehicle.

Mechanical.

- (i) Service Instruction Book T.M.9-727 (General).
- (ii) Service Instruction Book T.M.9--1726 (Ordnance, Maintenance: Continental Engine).
- (iii) Service Instruction Book T.M.9--1,726F (Ordnance Maintenance; Fuel and Lubrication systems).
- (iv) Service Instruction Book T.M.9—1728 (Ordnance Maintenance; Power train for light tanks).
- (v) Service Instruction Book T.M.9—1799 (Ordnance Maintenance: Fire Extinguisher).

Armament.

 Service Instruction Book T.M.9—1608 (Periscopes and Telescopes).

NOTE.—Publications mentioned above and throughout this pamphlet which have the A.F.V.P. prefix may be obtained from:—

A.F.V. Publications Section, A.F.V. School, Bovington Camp, Dorset.

SECTION 3

Dont's

- DON'T mount the vehicle by climbing indiscriminately on the tracks, sprockets or suspension, it is a dangerous habit to form. The approved method is described in Section 5 Crew Drill.
- DON'T kick or stand on the periscopes or periscope flaps, particularly when they are in the raised position.
- 3. DON'T fail to lock the turret hatches to the rear after opening them, otherwise serious injury may result by the hatches being flung forward during cross-country driving.
- 4. DON'T start the engine before reading "STARTING UP SEQUENCE" on page 131.
- 5. DON'T open the engine doors without using the handles, as there is a danger of fingers being trapped between the top of the doors and the upper section of armour.
- DON'T hold the steering levers at the top when steering or you may find the steering brake locked "ON" after making a turn.
- DON'T block the air intake grille with equipment, blankets etc.
- 8. DON'T traverse the turret with the front hatches open.
- DON'T use the powered traverse unless the auxiliary generator or engine is running.
- DON'T forget to engage the turret lock when the vehicle is moving and the guns are not in use.
- 11. DON'T remain in a closed vehicle with the auxiliary generator running. The fumes from the generator are dangerous.