

TRUCK, 2 1/2 TON
6 x 6 CAB FORWARD
MODEL AFK WX-353



WAR DEPARTMENT

27 MAY 1943

RESTRICTED. DISSEMINATION OF RESTRICTED MATTER.

No person is entitled solely by virtue of his grade or position to knowledge or possession of classified matter. Such matter is entrusted only to those individuals whose official duties require such knowledge or possession.

(See also paragraph 23b, AR 380-5, 15 March 1944.)

TM 9-809, Truck, 2½ Ton 6 x 6 Cab Forward Model AFK
WX-353 is published for the information and guidance of all con-
cerned.

[A.G. 300.7 (27 May 43)]

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
Major General,
The Adjutant General.

DISTRIBUTION: X.

Part 1—Operating Instructions

SECTION		Paragraphs	Pages
	I. Introduction	1– 2	3
	II. Description and tabulated data	3– 5	4– 9
	III. Driving controls and operation	6– 11	10– 26
	IV. Operation under unusual conditions	12– 13	27– 32
	V. Inspection and preventive maintenance services	14– 18	33– 39
	VI. Lubrication	19– 20	40– 50
	VII. Tools and equipment stowage on vehicle	21– 22	51– 52

Part II—Organizational Instructions

VIII. Maintenance allocation.....	23– 24	53– 59
IX. Organization preventive maintenance service	25	60– 70
X. Organization tools and equipment	26	71
XI. Trouble shooting	27– 44	72– 92
XII. Engine	45– 57	93–124
XIII. Ignition system	58– 65	125–135
XIV. Starter, control and battery	66– 71	136–144
XV. Generator and control	72– 74	145–149
XVI. Fuel system	75– 83	150–165
XVII. Exhaust system	84– 87	166–169

XIX. Wiring, harnesses and circuits.....	97- 99	184-191
XX. Lighting system	100-106	192-201
XXI. Dash and instrument panel		
gages and switches.....	107-121	202-216
XXII. Clutch and control.....	122-125	217-222
XXIII. Transmission	126-129	223-227
XXIV. Transfer case and controls.....	130-133	228-233
XXV. Front axle	134-143	234-250
XXVI. Rear axles	144-148	251-255
XXVII. Propeller shafts and universal		
joints	149-152	256-260
XXVIII. Brake system	153-164	261-295
XXIX. Wheels, hubs and tires.....	165-170	296-313
XXX. Steering gear system	171-174	314-323
XXXI. Spring suspension	175-182	324-332
XXXII. Frame	183-188	333-339
XXXIII. Cab and associated parts.....	189-194	340-349
XXXIV. Body and associated parts.....	195-198	350-354
XXXV. Sheet metal	199-205	355-358
References		359
Index		360-367

OPERATING INSTRUCTIONS

Section I

INTRODUCTION

Scope	Paragraph 1
Records	2

1. SCOPE.

a. This manual is published for the information and guidance of the personnel of the Using Arms charged with the operation, maintenance, and replacement of parts of this materiel. Instructions contain descriptions of the major units and their function in relation to the other components of the vehicle, as well as instructions for operation, inspection, adjustment, unit replacement, and minor repair.

b. Sections I through VII contain information chiefly for the guidance of operating personnel. Sections VIII through XXXV contain information intended chiefly for the guidance of personnel of the Using Arms doing maintenance work. All Standard Nomenclature Lists, Technical Manuals, and other publications for the materiel covered by this manual are listed in reference section at end of book.

c. Repairs, modifications, and adjustments beyond scope or facilities of using arms must be reported to responsible ordnance service.

2. RECORDS.

a. An accurate record must be kept of each motor vehicle issued by the Ordnance Department. For this purpose the Ordnance Motor Book (O.O. Form No. 7255), generally called "Log Book," is issued with each vehicle and must accompany it at all times. This book furnishes a complete record of the vehicle, from which valuable information concerning operation and maintenance costs, etc., are obtained, and organization commanders must insist that correct entries are made. This book will habitually be kept in a canvas cover to prevent its being injured or soiled. The page bearing a record of assignment must be destroyed prior to entering the combat zone. All other references which may be posted regarding the identity of the organization must also be deleted.

	Paragraph
Description	3
Identification	4
Tabulated data	5

3. DESCRIPTION.

a. Vehicles described in this manual are designated as Truck 2½ ton, 6x6 (three driving axles and six wheels, all driving), AFKWX-353 (figs. 1 and 2). Vehicles are intended for hauling general cargo, ammunition, and equipment. Vehicles may also be used for towing trailers, guns and other wheeled equipment.

b. Axles, suspension and steering. Three driving axles are full floating "banjo" type. Front axle incorporates special universal joints which serve as steering knuckles and permit steering of vehicle in conventional automotive manner — by turning front wheels with mechanical steering gear. Suspension of axles from chassis frame is by semi-elliptic springs with torque rod connections used at rear axles. Front springs are attached to frame by bracket at front end and shackle at rear end. Rear springs are supported at center on cross shaft bearings and ends of springs are fitted into clips at wheel ends of rear axles.

c. Power plant. Six cylinder—valve-in-head engine is three point mounted at front end of chassis frame. Piston displacement is 269.5 cubic inches. Main transmission is mounted on



Figure 1.—Left Front View—AFKWX-353