

TM 9-802

***RESTRICTED**

WAR DEPARTMENT

TECHNICAL MANUAL



**2½ TON AMPHIBIAN TRUCK,
6 x 6, GMC DUKW-353**

1 SEPTEMBER, 1943

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TECHNICAL MANUAL
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WAR DEPARTMENT
Washington, 1 September 1943

2½ TON AMPHIBIAN TRUCK, 6 X 6, (GMC DUKW-353)

**Prepared under the direction of the
 Chief of Ordnance
 (with the cooperation of the Yellow Truck and Coach
 Manufacturing Company)**

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***This manual supersedes TM 9-802, 15 Oct. 1942.**

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PART I

VEHICLE OPERATING INSTRUCTIONS

Section I

INTRODUCTION

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1. SCOPE.

a. These instructions are published for the information and guidance of the personnel of the Using Arms charged with the operation, maintenance, and repair of this materiel. They 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, minor repair, and unit replacement.

b. Sections I through VIII contain information chiefly for the guidance of operating personnel. Sections IX through XL contain information intended chiefly for the guidance of personnel of the Using Arms doing maintenance work.

c. In all cases where the nature of the repair, modification, or adjustment is beyond the scope or facilities of the unit, the responsible ordnance service should be informed in order that trained personnel with suitable tools and equipment may be provided, or proper instructions issued.

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.

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Section II

DESCRIPTION AND TABULATED DATA

	Paragraph
Description	3
Identification	4
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3. DESCRIPTION.

a. **General.** The vehicle described in this manual is known as SNL G-501 Truck amphibian, 2½-Ton, 6 x 6 (DUKW-353), and is designed for service operation on land or water. The vehicle has automotive characteristics of 6 x 6 conventional truck, and in addition is equipped with an integral water-tight hull designed in such a manner that the truck chassis and the drive units are attached to and in the body of the hull. For land operation, vehicle utilizes six driving wheels driven by a conventional six-cylinder valve-in-head engine through the transmission, transfer case, and propeller shafts. For water operation the vehicle is propelled with a water propeller powered from the engine through the transmission and a water propeller transfer case. As a truck the front wheels are steered with conventional steering gear assembly. When operating in water, vehicle is steered with combined use of the front wheels and a rudder which is interconnected to and operated by the steering gear column.

b. Hull Structure.

(1) Welded steel hull is built to accept chassis frame and power plant. The spring suspension and driving axles are attached to and through the bottom of the hull to the frame with bolts and attaching parts adequately sealed at the hull. The hull is decked forward of open driver's compartment, to the rear of rear wheels, and along both sides. A crash rail is installed all around hull at deck height.

(2) The two-man cab or driver's compartment is open type with removable canvas top and open back. On vehicles prior to DUKW-353—2006, the driver's compartment is equipped with removable side curtains as illustrated in figures 1, 2, 3, and 4. The windshield on these vehicles folds forward in a completely lowered position or tilts upward and outward. Vehicles after DUKW-353—2005 are equipped with slanting windshields and side wings, as illustrated in figures 5, 6, and 7. This windshield also folds forward. Driver's compartment on all vehicles is equipped with driver's and gunner's seats, with entrance from the rear.

(3) Cargo space, provided at rear of cab, will accommodate approximately 25 men and equipment or about 5000 pounds payload for land operation. Hatches in rear deck and floor provide access to tool and storage holds and also the rudder operating

DESCRIPTION AND TABULATED DATA

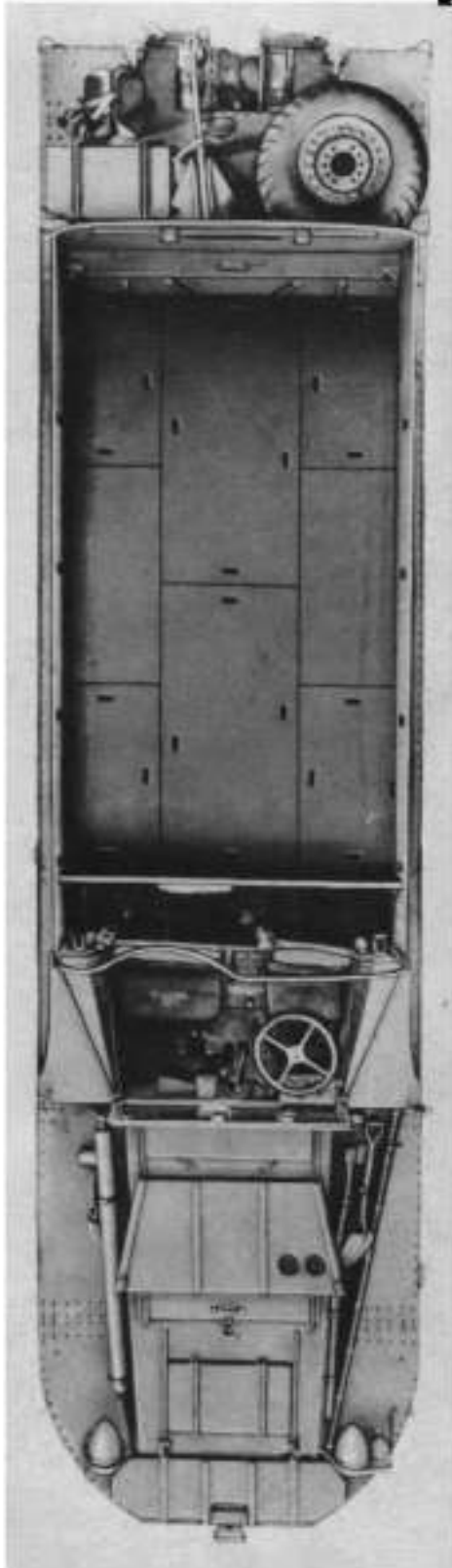


Figure 1—DUKW-353—Plan View Showing Cargo Space (Prior to DUKW-353—2006)

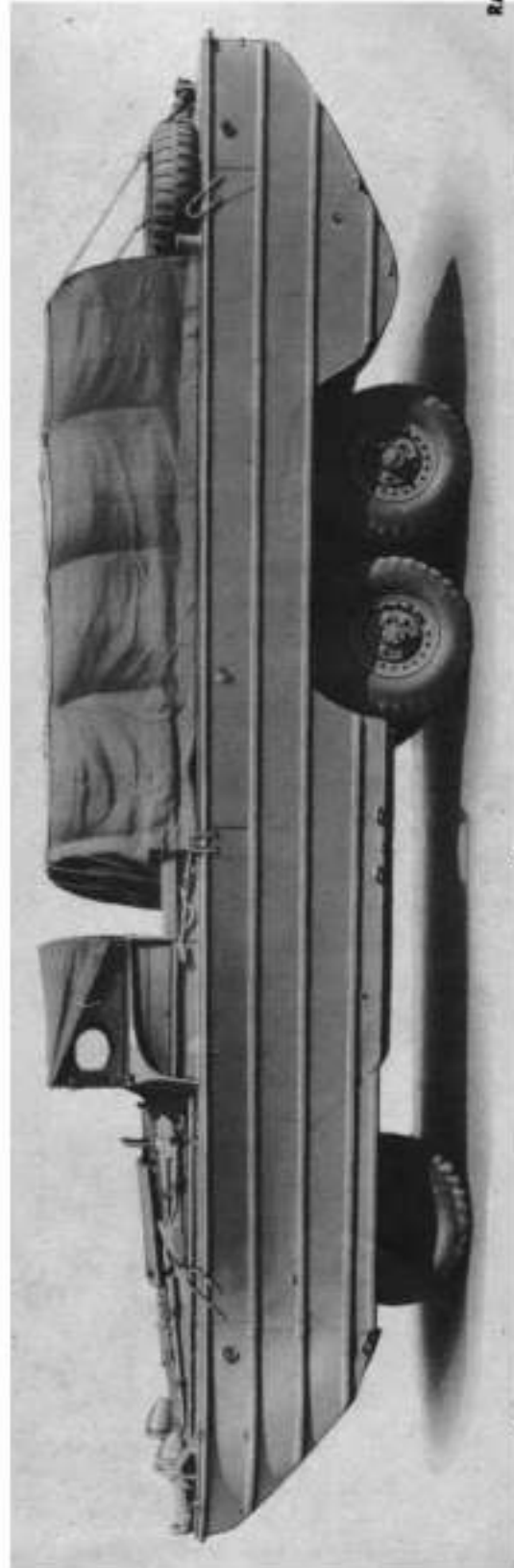
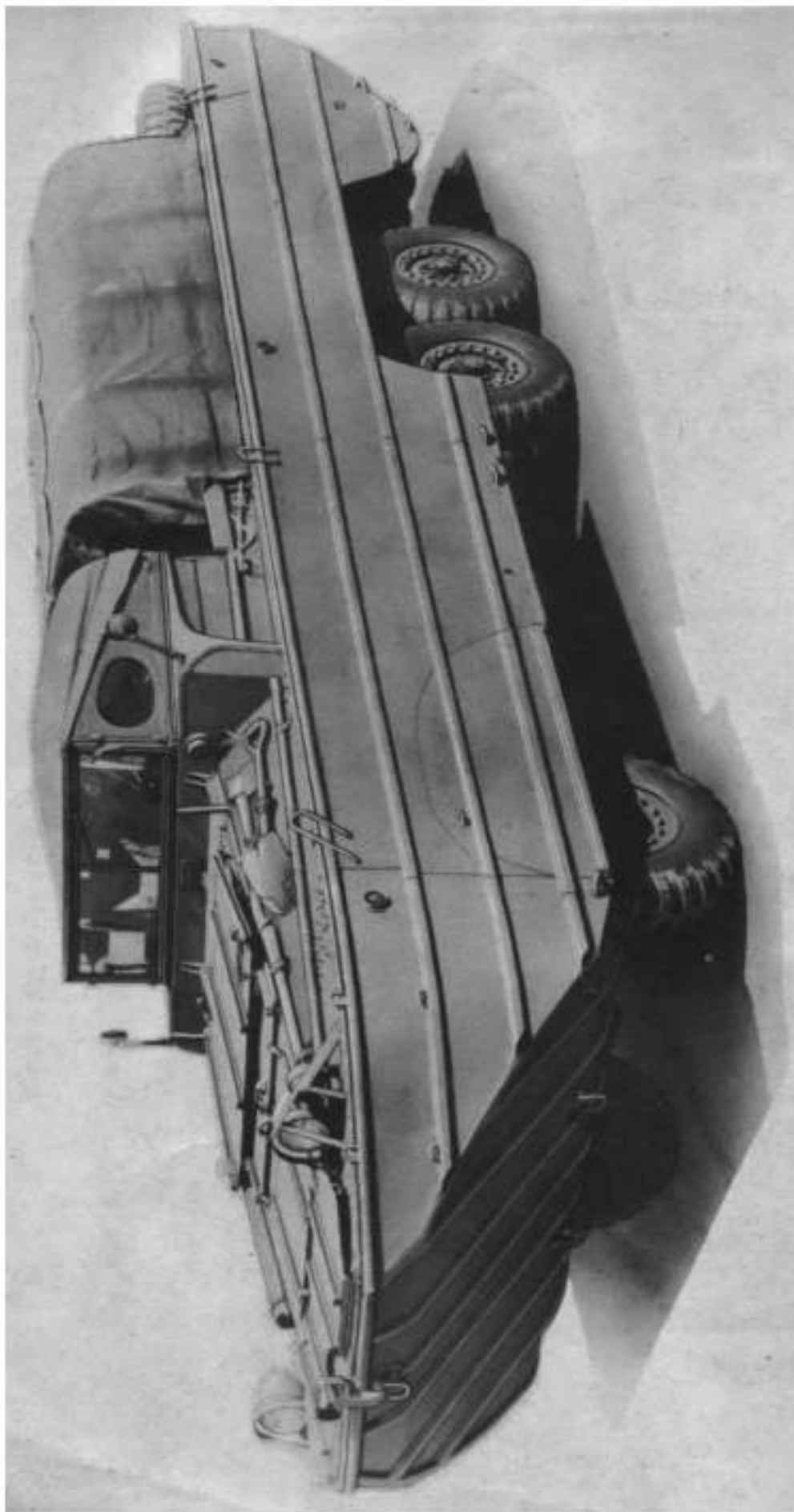


Figure 2—Straight Left View (Prior to DUKW-353—2006)

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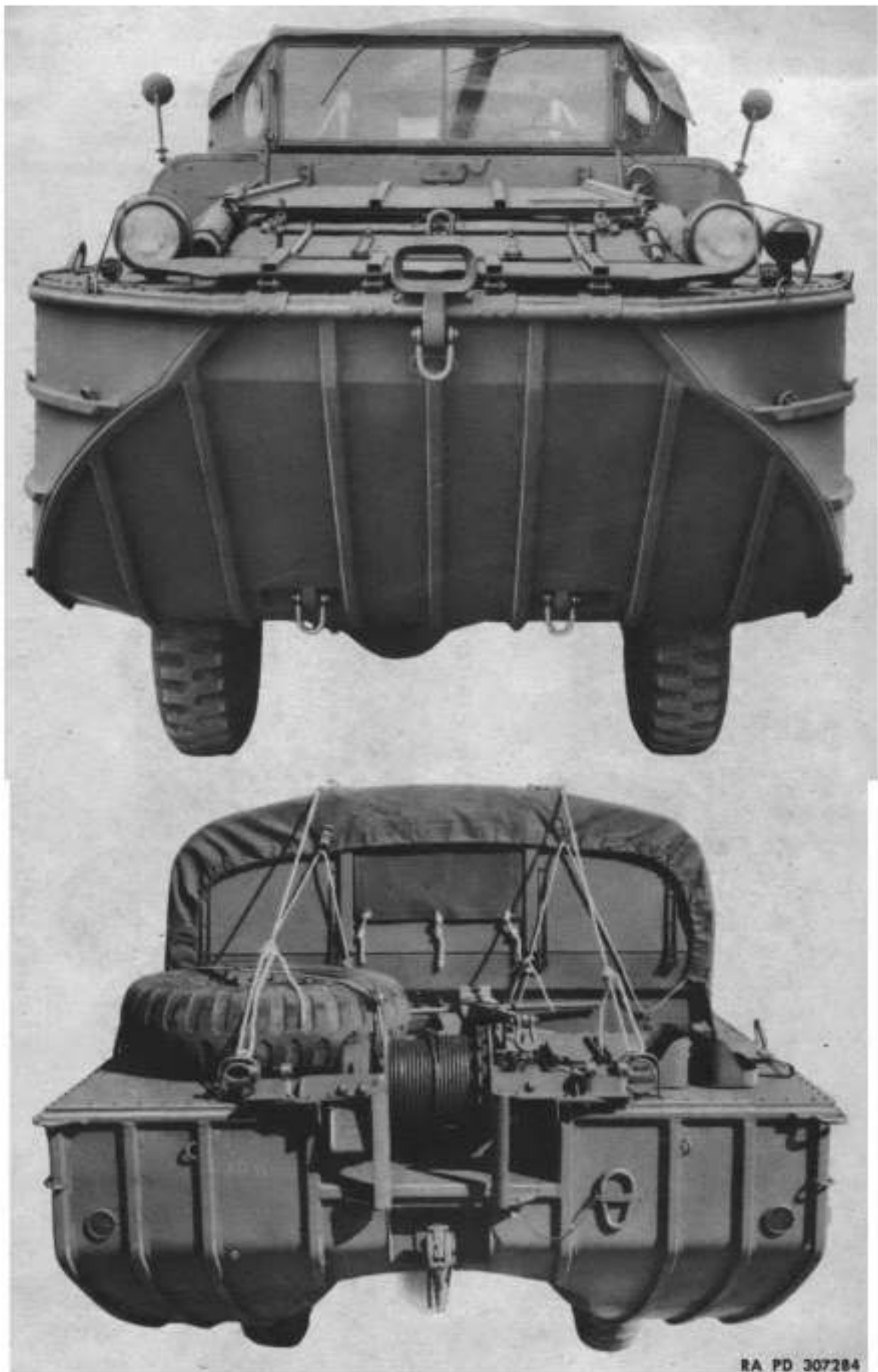
2½-TON AMPHIBIAN TRUCK, 6 x 6



BA PD 307297

Figure 3—Left Front View (Prior to DUKW-353—2006)

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RA PD 307284

Figure 4—Straight Front and Rear Views (Prior to DUKW-353—2006)

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2½-TON AMPHIBIAN TRUCK, 6 x 6



Figure 5—Right Front View (After DUKW-353—2005)

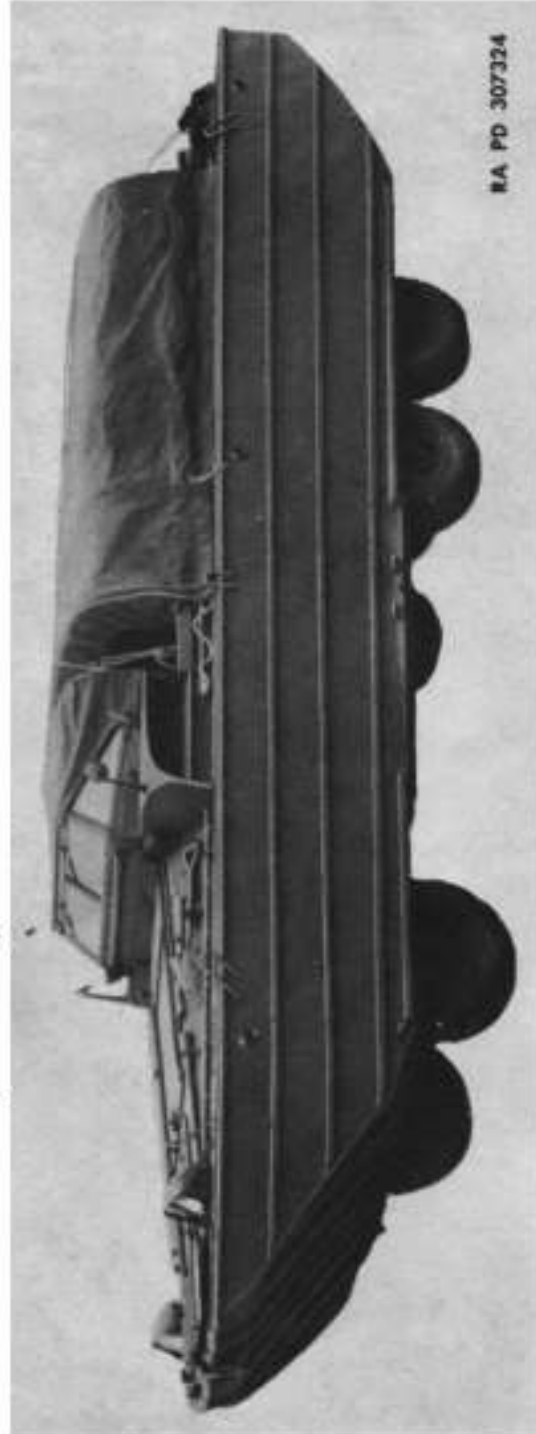


Figure 6—Left Front View (After DUKW-353—2005)

DESCRIPTION AND TABULATED DATA



REAR VIEW



FRONT PLAN VIEW



FRONT VIEW

RA PD 307376

Figure 7—Front and Rear Views (After DUKW-353—2005)