
**MAINTENANCE
MANUAL**

FOR

FORD AMPHIBIAN

¼ TON 4 x 4

BUILT FOR

U. S. GOVERNMENT

MODEL GPA

Contract Number

W-398-QM-12937

U.S.A. Reg. Numbers

702104-709999

7010000-7012103--Inc.

★ ★ ★

Ford Motor Company

MAINTENANCE MANUAL

FOR
FORD AMPHIBIAN
¼ TON 4 x 4

BUILT FOR
U. S. GOVERNMENT

MODEL GPA

Contract Number
W-398-QM-12937

U.S.A. Reg. Numbers
702104-709999
701000-7012103—Inc.

★ ★ ★

Ford Motor Company

DEARBORN, MICH., U. S. A.

Published 1942

INDEX		
	Section	Page
Drivers Instructions	0-2	6
Lubrication and Inspection	0-3	13
Engine	0100	24
Clutch	0200	46
Fuel System	0300	51
Exhaust System	0400	61
Cooling	0500	62
Electrical	0600	66
Transmission	0700	86
Transfer Case	0800	94
Propeller Shaft and Universal Joints	0900	98
Front Axle	1000	103
Rear Axle	1100	111
Brakes	1200	119
Wheels, Hubs and Drums	1300	126
Steering	1400	129
Frame	1500	138
Springs and Shock Absorbers	1600	139
Body	1800	142
Winch	1900	
Miscellaneous Body & Chassis Accessories	2200	

F O R E W O R D

This Motor Vehicle has been thoroughly tested and inspected. Like any other piece of machinery, to maintain it in proper operating condition, it should be lubricated at the time specified using the proper grades of oil and grease. All working parts as well as oil holes should be kept clean and free from dirt and grit. This vehicle should periodically have a systematic inspection.

Throughout the following pages parts numbers have been used for the purpose of clarification. These parts numbers should be used only for the purpose of identifying parts as they are mentioned in the text and, the accuracy of the part number should be verified by referring to the parts book when placing orders for parts.

In the following pages we have described how to take care of this unit and handle it in such a way that it will give maximum service and dependable performance.

In the forepart of this Manual will be found complete instructions relative to conditioning the unit for Service, Driver's Instructions, Lubrication and Inspection.

In the Maintenance and Repair Section will be found instructions which will enable one to make proper adjustments and repairs.

See Index on preceding page; bend back edge of pages to find Section desired.

Read and follow these instructions carefully.

FORD MOTOR COMPANY

FORD AMPHIBIAN

Model GPA ¼-Ton 4 x 4

GENERAL DATA

ENGINE

Type.....	Gasoline
Number of Cylinders.....	4
Bore.....	3 $\frac{1}{8}$ " (3.125")
Stroke.....	4 $\frac{3}{8}$ " (4.375")
Piston Displacement.....	184.2 cu. in.
Compression Ratio.....	0.48-1
Horsepower—S.A.E.....	15.6
Horsepower { Actual.....	60
Revolutions per minute.....	2600
Torque { Maximum Lbs.-Ft.....	108
Revolutions per Minute.....	1800
Wheelbase.....	84"
Tread..... (Front & Rear)	49"
Overall Width.....	64"
Overall Length.....	181.83"
Overall Height—Normal Load	
To top of deck.....	42.28"
To top of steering wheel.....	52.75"
Weight—Maximum Pay Load.....	800 lbs.
Maximum Trailed Load.....	1000 lbs.
Shipping (Less water, fuel and chains).....	Not less than 3000 lbs.
Road (Less tools).....	3400 lbs.
Gross.....	4450 lbs.

CAPACITIES

	U.S.	Imperial	Metric
Fuel Tank (Gals.).....	15	12 $\frac{1}{4}$	56.78 liters
Engine Crankcase-Refill (Qts.) (Less Oil Filter Absorption).....	4	3 $\frac{1}{2}$	3.78 "
Cooling System (Qts.).....	11	9 $\frac{3}{4}$	10.41 "
Transmission (Pts.).....	2	1 $\frac{3}{4}$.95 "
Transfer Case (Pts.).....	3	2 $\frac{1}{2}$	1.42 "
Front Axle Differential (Pts.).....	2 $\frac{1}{2}$	2	1.18 "
Rear Axle Differential (Pts.).....	2 $\frac{1}{2}$	2	1.18 "
Oil Bath Air Cleaner (Pts.).....	1 $\frac{1}{2}$	1	.71 "
Brake System Brake Fluid (Pts.).....	3 $\frac{1}{4}$	3 $\frac{1}{4}$.36 "

See Lubrication Chart, Page 14.

LAMP BULBS

Mazda

Head Lamp (Sealed Beam type).....	2412
Upper Beam.....	45 Watts
Lower Beam.....	45 Watts
Blackout Lamp Bulb (1).....	3 Cp. SC 1247
Left Tail Lamp Bulb (1).....	21-6 Cp. DC 1258
Left Tail Lamp Bulb (1).....	3 Cp. SC 1249
Right Tail Lamp Bulb (2).....	3 Cp. SC 1249
Instrument Lamp Bulb (2).....	1.5 Cp. SC 53
Blackout Driving Lamp (6V).....	10 Cp. SC 2405-S
Fuse (Thermal Type)—On Light Switch—30 Amperes.....	

IDENTIFICATION



Chassis Serial Number located on top of frame to rear of left front motor mounting bracket.



Engine Number located on right side of cylinder block, front upper corner.

No. 5, Fig. 1—Ventilator Handle

Instructions for proper adjustment of the ventilator is covered on page 10 under subject "Operating Instructions."

No. 6, Fig. 1—Steering Wheel**No. 7, Fig. 1—Horn Button**

Pressing on button closes horn wiring circuit and causes horn to sound.

**No. 8, Fig. 1—Nomenclature Plate
(Name Plate)**

The nomenclature plate identifies the vehicle and gives the manufacturer's model and serial number, date of delivery, recommended fuel and lubricating oil. Service publication numbers are also given for reference.



FIG. 2—NAME PLATE

No. 9, Fig. 1—Caution Plate

Covers maximum permissible road speeds in different gear positions and gives instructions relative to complete draining of the cooling system.



FIG. 3—CAUTION PLATE

**No. 10, Fig. 1—Propeller and Bilge Pump
Instruction Plate**

Plate showing proper position for control levers. Complete instructions for operating propeller and bilge pumps are covered on page 11 under subject and title "Operating Vehicle on Water", and "Operating Bilge Pump", Page 12.

FIG. 4—PROPELLER AND BILGE PUMP
INSTRUCTION PLATE**No. 11, Fig. 1—Transfer Case Shifting
Instructions**

This diagram gives relative position of shifting levers for front axle drive, low and high gear ratios.

On hard surface and flat roads disengage front axle drive by placing center shift lever, (front axle drive) in forward position.

The right hand lever (third from driver) controls transfer case gear ratio—low or high. No. 38, Fig. 1. The low gear ratio can only be used when front axle drive lever is in the rear position to engage front wheel drive.

Proper position for disengaging axles to use power take-off unit is shown as "N" in Fig. 5.

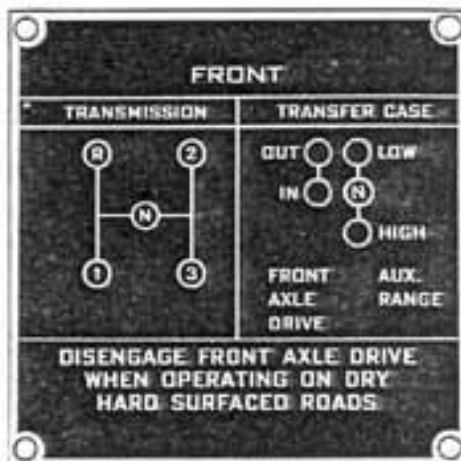


FIG. 5—SHIFT PLATE