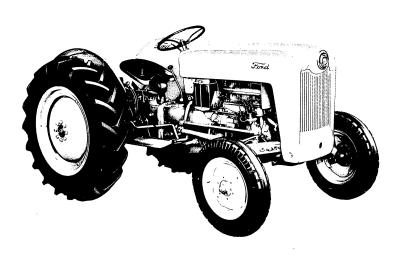
OWNER'S MANUAL



Model NAA

42881007 **Reprint**

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Model NAA

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INTRODUCTION

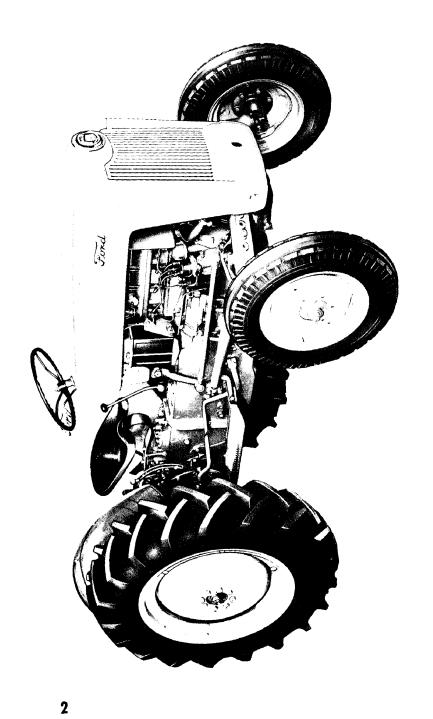
This manual has been prepared to assist you in the daily care and operation of your Model NAA Ford Tractor. The manual is divided into several sections. The section index on each title page indicates the subject covered in that section.

The design of your tractor is the result of many years of engineering and research by the Ford Motor Company. The finest development methods and equipment available were used in the development of your tractor. Every care has been exercised in the design, selection of materials and in manufacture to provide satisfactory service and economical operation over a long period of time.

Every tractor is carefully inspected before leaving the factory. A pre-delivery inspection is also made by your dealer prior to delivery. How long or how well your tractor continues to give satisfactory service depends upon the care it receives. Engineering and manufacturing ingenuity can never compensate for tractor abuse in the hands of the operator. It is the owner's responsibility to establish regularly scheduled service periods in accordance with the hours shown on the Proof-Meter, as recommended in Section 10 of this manual.

Have your dealer inspect the tractor at least twice yearly. His factory trained technicians, using scientific instruments, are equipped to render the kind of service it takes to keep your tractor running in top condition. When service work is performed, always insist on genuine Ford Tractor repair parts.

FORD TRACTOR DIVISION FORD MOTOR COMPANY SERVICE DEPARTMENT BIRMINGHAM, MICHIGAN



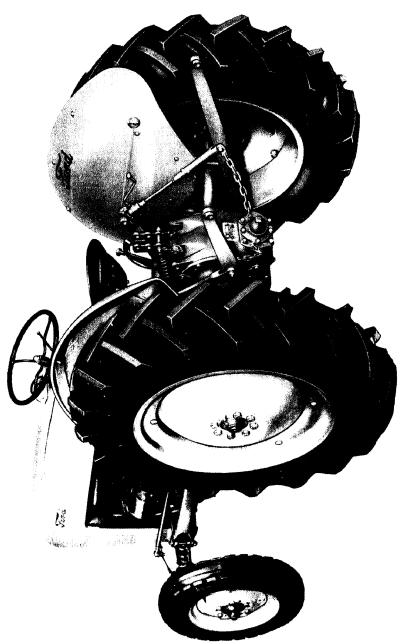


Figure 2 NAA Ford Tractor - 3/4 Rear View

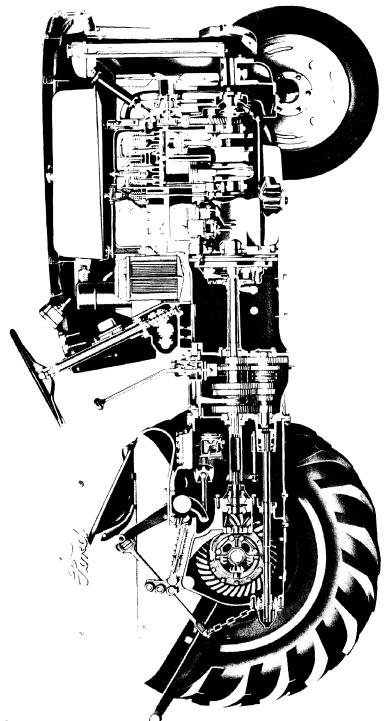


Figure 3 NAA Ford Tractor - Sectional View

GENERAL DESCRIPTION AND SPECIFICATIONS

The Model NAA Ford tractor is of the four wheel type and is powered by an overhead valve four cycle, four cylinder gasoline engine.

The adjustable front axle provides front wheel tread spacings to meet various field crop work conditions. Rear wheel tread is also adjustable by changing the position of the steel disks and the rims.

The conventional heavy duty, single plate, dry disc clutch provides the means of engaging or disengaging the engine power from the transmission.

In various types of field work and under heavy loading conditions, it is necessary to have various engine speeds in relation to tractor speed. This is accomplished by manually selecting the correct reduction gearing in the four forward speed constant mesh type transmission before the tractor is set in motion.

The rear axle is supported by tapered roller bearings at each wheel and is of the semi-floating type. Final drive incorporates heavy duty spiral bevel gears and a four pinion differential. The differential is the mechanism that equalizes power at the rear wheels by permitting one wheel to turn faster or slower than the other.

Each rear wheel is equipped with mechanically operated internal expanding, self energizing type brakes, independently operated.

The hydraulic system incorporates design features that assure dependability and positive control of implements. The externally mounted hydraulic pump is driven by a gear on rear of engine camshaft. This pump keeps the system supplied with oil to assure instant control of implements after setting the selector and touch control levers.

The power take-off lever is located on the left side of the center housing. This is used to engage or disengage the power take-off from the transmission shaft. The power take-off shaft, in turn, provides a drive for implements and a belt pulley is available at extra cost.

A. GENERAL SPECIFICATIONS

4 Wheel general purpose Type Wheelbase 73 7/8 inches at 48" tread Over-all length, front to drawbar 118 7/8 inches Over-all height 57 1/4 inches Over-all width, normal tread $64 \ 3/4$ inches Tire size: Front-standard 4-19-4 ply or 4.00 X 19 - 4 ply or 5.50 X 16 - 4 ply extra cost Rear-standard 10 X 28 48 to 76 inches Front tread Rear tread 48 to 76 inches Ground Clearance: Front axle 21 inches Rear axle 21 inches Center 13 inches Turning circle radius (with use of brakes) Made by outer front 8 ft. 10 in. wheel Made by centerline of tractor at rear axle 3 ft. 8 in. Shipping weight (including oil, water, tires, -less gas) 2550 lbs. 8 1/2 in. to 34 1/4 in. 18 in. std.Drawbar height setting

B. CAPACITIES - U.S. MEASURE

11 gallons total-1 3/4 gallons reserve Fuel Tank Engine Oil Pan (less filter absorption) 5 qts. with filter add extra qt. Transmission 5 qts. 8.0 qts. Hydraulic lift Differential 8,5 qts. 15 qts. Cooling system 1.3 pints Oil bath air cleaner 0.9 pints Belt pulley Assy. P. S. I. Tire pressure: 10-28 4-ply 12 28 4-19 4-ply 28 5. 50-16 4-ply

C. ENGINE

Type 4 Cylinder, in-line, overhead valve

C. ENGINE (Con't)

1500 R. P. M. with P. T. O. driven Rated speeds implements so as to obtain 545

Refer to Page 10 for R. P. M. at P. T. O.

Belt and Pulley Speeds 1750 R. P. M. without P. T. O.

driven implements

450-475 R. P. M. Idle speed

Cylinder bore 3.4375 in. Stroke 3.60 in. Piston displacement 134 cu. in.

110 ft. lbs. at 1400 R. P. M. -Torque

Engine without accessories

Compression ratio

Sleeves Centrifugally cast alloy iron,

dry type

Autothermic, cam ground, Piston

aluminum alloy

Rings:

2 - cast iron - top, chrome Compression

plated 1 - cast iron

Oil Piston pins Floating

Replaceable steel backed inserts Rod Bearings Replaceable steel backed inserts Main Bearings Precision moulded alloy iron, Crankshaft statically & dynamically

balanced.

Compression pressure at

cranking speed

(sea level) 120-125 P.S.I. at cranking speed (Minimum)

D. IGNITION SYSTEM

Battery Type

Distributor:

1-2-4-3Firing order

Helical gear off camshaft Drive

Automatic spark advance Centrifugal

Initial timing (degrees

of crankshaft) 80 BTDC at 475 R. P. M.

Maximum advance

(degrees of crankshaft) 290 to 310

Distributor breaker

4 lobe cam **Breaker** contacts 1 set

Breaker contact

.024 to .026 spacings

Spark Plugs:

H-10 Type

D. IGNITION SYSTEM (Con't)

Size Gap 14 mm . 025 - . 028

E. CARBURETOR

Type
Idle fuel adjustment
Main fuel jet adjustment

Idle speed adjustment

Single up-draft
1 turn open
1 1/4 turn open

Screw on throttle shaft

F. GOVERNOR

Type

Variable Speed Centrifugal Fly-

ball Mounted Direct

to Crankshaft

Governed speed range

Maximum governed speed

adjustment

800 - 2200 R. P. M. No Load

Stop clamp on throttle rod

G. COOLING SYSTEM

Radiator cap

Pressure valve opens

Vacuum valve opens

Capacity
Water pump:

ater pump: Type

Drive Coolant flow Pressure type 3.5 to 4.5 P.S.I.

1 P.S.I. 15 qts.

Centrifugal V-belt

20 gal. per minute at 170°F. at

2000 R. P. M.

Fan: Type Drive

4 blade unequal spacing pull Same belt drives water pump and

generator

Thermostat:

Location Starts to open Fully open Engine water outlet 157-162 deg. F. 177-182 deg. F.

H. ELECTRICAL SYSTEM

Generator:

Type
Drive
Rating:

1650 R. P. M. (hot)

V-belt 20 amps

2 brush shunt

H. ELECTRICAL SYSTEM (Con't)

Maximum output 20 amps Capacity 160 watts

Generator regulator:

Cutout closing voltage 6.0 - 6.6 volts Voltage limiter 7.1 - 7.5 volts

Cutout opening current

(Reverse) 6 amps. max.

Battery:

Type 6 volt

Number of plates

(per cell) 13

Capacity in ampere

hours 80
Terminal grounded Positive

Starting motor:

Type 6 volt

Drive Follow Through Type

I. TRANSMISSION

Type Constant Mesh

Number of speeds forward 4

			Total Gear	Speed in M. P. H.		
1	Without Slip	Trans-	Reduction	1500	1750	2000
$\mathbf{A}\mathbf{x}$	le Gear Ratio (6, 66)	mission	(Over all)	RPM	RPM	RPM
1.	Low (first)	11.00 to 1	73.33 to 1	2.68	3.13	3. 58
2.	Plowing (second)	8.55 to 1	57.04 to 1	3.45	4.02	4. 6 0
3.	Cultivating (third)	6.21 to 1	41. 45 to 1	4.75	5. 54	6.33
4.	High (fourth)		19.86 to 1	9.9	11.55	13.2
5.	Reverse	10.04 to 1	66. 8 to 1	2.96	3.45	3.96

J. CLUTCH

Type Single plate

Release bearing (pre-

lubricated) Ball bearing Pedal free travel 3/4 inch

K. REAR AXLE

Type Semi-floating Ratio 6.66 to 1

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