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MANUAL PREVIEW

Ford

Service Manual

NAA

Service Manual

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FO-S-NAA

Ford NAA Starting Serial Numbers

Located Front of Engine Block (early) and left side of Transmission Case (late)

1952.....1
1953.....2380
1954.....77475

Paint Codes

Ford Gray (1939-1962)

Ford.....M1J957SE5D6 (Aerosol)
Ford.....M1J957SE2DS (Quart)
Ford.....M1J957SE3DS (Gallon)

Ford Red (1939-1962)

Ford.....M1J956SE5DS (Aerosol)
Ford.....M1J956SE2DS (Quart)
Ford.....M1J956SE3DS (Gallon)

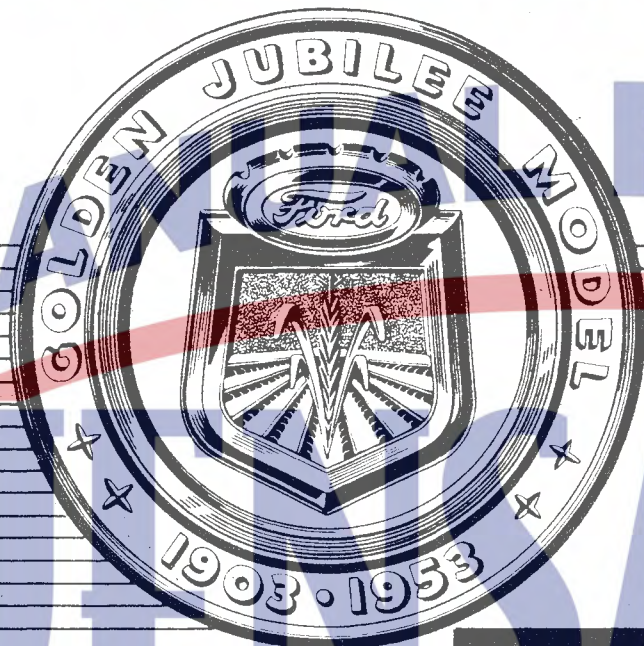
Ford Blue Alkyd Enamel (1952-1962)

Ford.....M1J1639SE2DS (Quart)
Ford.....M1J1639SE3DS (Gallon)

Make: Ford	Model: JUBILEE/NAA	Years Made: 1952-1954
HP-PTO: 30.15	HP-Engine:	HP-Drawbar: 20.2
HP-Range: 30	Engine-Make: FORD	Engine-Fuel: GAS/
Engine-Cyl(s)-CID: 4/134	Transmission-STD:	Optional:
Fwd/Rev Standard: 4/1	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 5.50-16	Tires-Std Rear: 10-28	Wheelbase-Inch:
Pto Type:	Pto Speed:	CAT I-3pt Hitch: False
CAT II-3pt Hitch: False	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type:	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Std/A/C; Rops:	Weight:	New Price: 0

FORD TRACTOR

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SERVICE

TRAINING

MANUAL



DEARBORN MOTORS CORPORATION
BIRMINGHAM, MICHIGAN

National Marketing Organization for the Ford Tractor
and Dearborn Farm Equipment



Form No. ED-5745-7

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NAA Engine Specifications . . . 39, 40, 41 and 42

Service Job No. 2.

CRANKSHAFT INSTALLATION

The crankshaft is dynamically balanced with three extra large main bearings and eight counter weights. The material is cast alloy iron, carefully heat-treated. The shaft weighs 53½ pounds. Oil passages in the crankshaft direct oil flow to main and connecting rod bearings. Crank thrust is taken on the center main bearing. Proper installation of the crankshaft requires following a definite plan and careful workmanship in order to attain required specifications. In the first place, the crankshaft and block must be thoroughly cleaned and free from all foreign material.

The bearing journals should be checked with the micrometer for taper and out-of-round. If the taper exceeds .0005 inch or an out-of-round condition exceeds .00025 inch, the crankshaft journal must be ground to the next undersize.

Inspect the shaft for evidence of cracks. These cracks, when they exist, are usually found in the fillet or radii of the bearing journals. Inspect the main bearing liners for any galled or pitted condition, or babbitt missing from the steel back. If any of these conditions exist, the bearing liner must be replaced.

PROCEDURE

1. Mount the gear on the front end of the crankshaft, using special tool. (Figure 11)



Fig. 11

Service Job No. 4.

GOVERNOR ASSEMBLY AND CYLINDER FRONT COVER

The governor base and cylinder front cover is a casting. The governor is of the centrifugal type incorporating six steel balls, each with a diameter of $\frac{3}{4}$ inch. Its effective speed control range is from 800 r.p.m. to 2200 r.p.m.

Two needle type bearings are incorporated into the governor case for smooth governor shaft operation and are sealed by a Welsh plug and an oil seal.

DISASSEMBLY PROCEDURE

1. The governor ball and race assembly is disassembled by removing the two (2) snap rings with snap ring remover.
2. Remove governor fork from lever assembly.



Fig. 18

3. Remove Welsh plug, two (2) needle bearing assemblies and oil seal from case with special tool. (Figure 18)
4. Remove crankshaft seal.

INSPECTION PROCEDURE

1. Inspect needle bearing assemblies for loose needles and excessive clearance to lever assembly shaft.

If either of these conditions exists it will be necessary to replace bearings.

2. Check ball race assembly for wear, pits and scoring. If parts are found with any of these conditions, they must be replaced for proper governor operation.

ASSEMBLY PROCEDURE

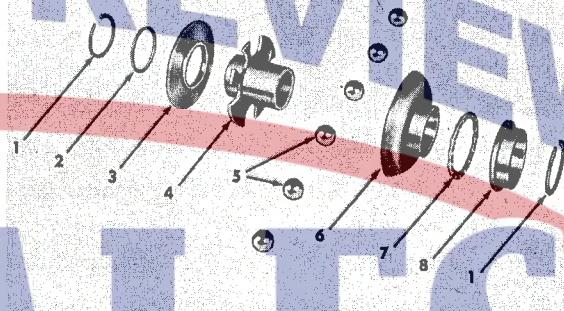


Fig. 19

- | | |
|-------------------------|--------------------------------|
| 1. Snap Ring | 5. Balls |
| 2. Thrust Washer | 6. Upper Race |
| 3. Lower Race | 7. Thrust Bearing |
| 4. Centrifugal Assembly | 8. Spindle and Sleeve Assembly |

1. Assemble governor ball and race assembly. (Figure 19)
2. Install crankshaft seal with special tool. (Figure 20)



Fig. 20