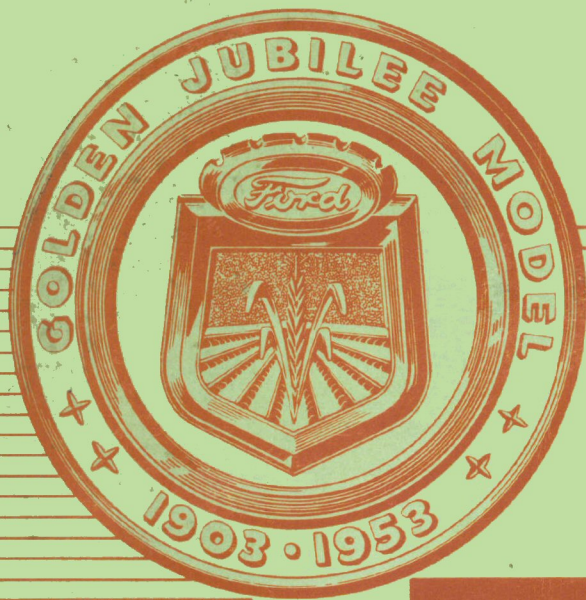
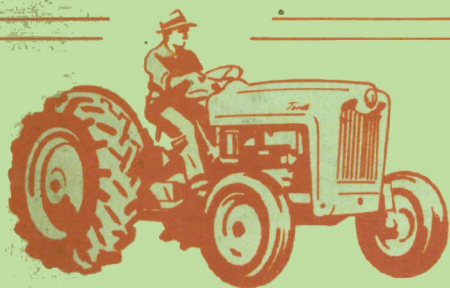


FORD TRACTOR



SERVICE TRAINING MANUAL



DEARBORN MOTORS CORPORATION
BIRMINGHAM, MICHIGAN

National Marketing Organization for the Ford Tractor



INTRODUCTION

This Service Shop Manual gives servicemen all necessary information on the disassembly, assembly, repair, inspection and maintenance of the Engine, Transmission and Hydraulic System of the Golden Jubilee Model Ford Tractor.

An effort has been made to produce a manual that will serve both as a ready reference book for the experienced serviceman and also cover step-by-step procedures to guide less experienced men. It provides the information needed to make repairs and determine engine or other mechanical troubles.

The Manual is divided into Sections. Each Section is further divided into the number of Service Jobs necessary to complete the work. At the beginning of each Section there is an index to the Service Jobs contained in that Section. This arrangement makes the information easy to find and the Manual easy to use.

The Manual should always be kept in a handy place for ready reference. Used properly, it will help all servicemen to serve the owners of the Golden Jubilee Model Ford Tractor quickly and efficiently.

TABLE of CONTENTS

Section I ENGINE

	Page		Page
1. Engine Disassembly	1	7. Oil Pump, Pan and Oil Filter	15
2. Crankshaft Installation	5	8. Cylinder Head Assembly Reconditioning and Installation	16
3. Camshaft Installation	8	9. Manifold and Carburetor Assembly Installation	18
4. Governor Assembly and Cylinder Front Cover	9	10. Water Pump, Fan Assembly and Thermostat Installation	19
5. Engine Rear Cover Plate, Flywheel and Clutch Assembly	10	11. Ignition System	19
6. Piston, Rings and Rod Assembly	11		

Section II TRANSMISSION

	Page		Page
1. Transmission Removal and Installation	23	4. Transmission Main Shaft	25
2. Disassembly and Assembly of the Transmission Cover and Gear Shift Assembly	24	5. Transmission Countershaft	27
3. Main Drive Gear and Shaft	25	6. Reverse Idler Shaft	28
		7. Servicing the PTO Shifter Assembly ..	29
		8. The PTO Shaft Assembly	30

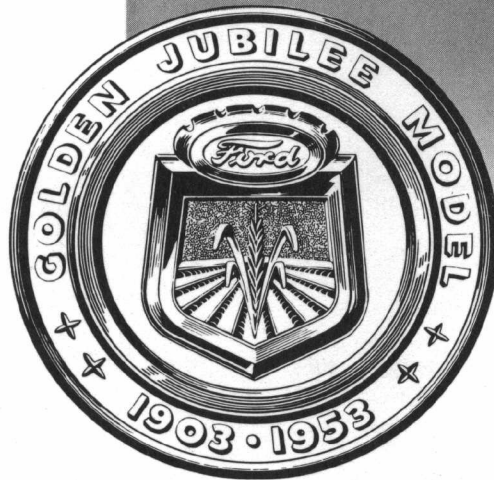
Section III HYDRAULIC SYSTEM

	Page		Page
1. Hydraulic Pump Removal and Disassembly	31	5. Safety Valve Removal and Installation	36
2. Hydraulic Pump Assembly and Installation	33	6. Attaching the Ram Cylinder and Valve Housing to the Lift Cover and Installing the Lift Cover on the Tractor ..	36
3. Hydraulic Lift Cover Assembly Removal	34	7. Constant Draft and Implement Position Control Adjustments	37
4. Removal of the Manifold Plate and Valves for the Hydraulic Lift Cover	35		

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

Section I

ENGINE



ENGINE

Service Job No.	Page
1. Engine Disassembly	1
2. Crankshaft Installation	5
3. Camshaft Installation	8
4. Governor Assembly and Cylinder Front Cover	9
5. Engine Adaptor Plate, Flywheel and Clutch Assembly	10
6. Piston, Rings and Rod Assembly	11
7. Oil Pump, Pan and Oil Filter	15
8. Cylinder Head Assembly Reconditioning and Installation	16
9. Manifold and Carburetor Assembly Installation	18
10. Water Pump, Fan Assembly and Thermostat Installation	19
11. Ignition System	19

Service Job No. 1.

ENGINE DISASSEMBLY

Disassembly is a major step in the overhaul of a tractor engine. Procedures which are followed in performing this step have a direct bearing on the quality of work and the results obtained when the engine is put back into operation. The following procedure is recommended for the efficient and workmanlike disassembly of the Golden Jubilee Model Ford Tractor engine.

PROCEDURE

A. Prepare Tractor For Removing The Engine.

1. Clean the cooling system thoroughly.

NOTE: *If this is not done, sediment in the system will dry, become hardened and thereby affect cooling efficiency when the engine is reassembled.*

2. Drain cooling system and oil pan.
3. Remove the hood assembly and fuel tank assembly.
4. Clean outside of engine thoroughly.