



CLICK ANYWHERE FOR MORE DETAILS

Ford

Service Manual

1100 2 & 4 Wheel Drive

Diesel Compact

Volume 1 of 2

Service Manual

JENSALES.COM

or Call 800-443-0625



CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
FORD OR IT'S SUCCESSORS. **FORD** AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

FO-S-1100

CLICK ANYWHERE FOR MORE DETAILS

REPAIR MANUAL

MANUAL PREVIEW

Model

1100

JENSALES®

TRACTOR

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

FORD TRACTOR OPERATIONS

Form No. SE3771 S1

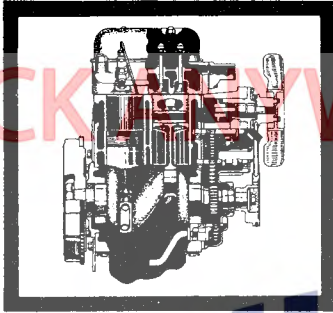
FORD MOTOR COMPANY

Printed in U.S.A.

TABLE OF CONTENTS

Part	Page
Part 1 – ENGINE	
Chapter 1 – ENGINE AND LUBRICATION SYSTEM	1-79
Chapter 2 – COOLING SYSTEM	81-106
Part 2 – FUEL SYSTEM	
Chapter 1 – DIESEL FUEL SYSTEM	1-22
Part 3 – ELECTRICAL SYSTEM	
Chapter 1 – GLOW PLUGS	1-11
Chapter 2 – STARTER SWITCH	13-17
Chapter 3 – HORN	19-27
Chapter 4 – BATTERY	29-43
Chapter 5 – SAFETY START SWITCH	45-53
Chapter 6 – STARTER MOTOR	55-76
Chapter 7 – ALTERNATOR	77-121
Chapter 8 – WIRING DIAGRAM	123-124
Part 4 – TRANSMISSION AND CLUTCH	
Chapter 1 – CLUTCH	1-11
Chapter 2 – TRANSMISSION	13-34
Part 5 – DIFFERENTIAL, REAR AXLE, AND RELATED PARTS	
Chapter 1 – DIFFERENTIAL	1-28
Chapter 2 – REAR AXLE AND BRAKES	29-44
Part 6 – HYDRAULICS	
Chapter 1 – HYDRAULIC SYSTEM	1-37
Part 7 – STEERING AND FRONT AXLE	
Chapter 1 – STEERING AND LINK SYSTEM	1-10
Chapter 2 – FRONT AXLE AND RELATED PARTS	11-41
Part 8 – WHEELS AND TIRES	
Chapter 1 – ADJUSTMENT AND WEIGHTING PROCEDURES	1-5

Part 1



ENGINE

Chapter 1

ENGINE AND LUBRICATION SYSTEM

Subject	Page
1. DESCRIPTION AND OPERATION	1
2. REMOVAL	3
3. DISASSEMBLY	14
4. CYLINDER HEAD VALVES, AND RELATED COMPONENTS	25
5. PISTONS, RINGS, CONNECTING RODS AND CYLINDER BLOCK	35
6. CRANKSHAFT AND CAMSHAFT	48
7. LUBRICATION SYSTEM	55
8. ASSEMBLY	58
9. TROUBLESHOOTING	68
10. SPECIFICATIONS	72

DESCRIPTION AND OPERATION

The 1100 Model tractor is equipped with a two cylinder, in-line, four-cycle liquid cooled, overhead valve diesel engine. The engine model can be identified by a code number cast into the side of the cylinder block.

The term "four-cycle" describes the fact that four strokes of the pistons — INTAKE, COMPRESSION, POWER and EXHAUST — and two revolutions of the crankshaft are required to deliver one power impulse to the crankshaft. To allow the entry of air and the release of exhaust gases, each cylinder has a set of valves which open and close the passages between the air intake on the right side of the engine and the exhaust passage and muffler on the left side of the engine. The valves are located in a cylinder head bolted to the top of the cylinder block and are opened against spring pressure by a valve train timed to the rotation of the crankshaft. The valve train for each cylinder consists of a pivot shaft and sets of rocker arms, push rods and lifters. The rocker arms are retained on the pivot shaft by snap rings located at each end of the shaft. The shaft itself is mounted in a support pedestal which is bolted to the cylinder head. The rocker arms are actuated by push rods which provide the mechanical link

IDENTIFICATION CHART

ENGINE CODE	TRACTOR MODEL	HORSEPOWER
LEK 752C-2	1100	13

Part 1 — ENGINE

DESCRIPTION AND OPERATION

between the lifters and the rocker arms. To provide the push rod up and down motion, the lifter "rides" on a camshaft which is gear driven by the crankshaft. To support the camshaft, ball bearings are positioned in the cylinder block at each end of the shaft. In addition to the camshaft the cylinder block contains the pistons and crankshaft. The pistons are closely fitted into machined bores called cylinders and are attached to the crankshaft by connecting rods. The up and down motion of the pistons is transmitted by the connecting rod to the crankshaft where it is converted to rotational motion. The crankshaft is supported in the cylinder block on bearings located at each end of the

shaft. The front bearing is positioned in a bore in the front of the cylinder block while the rear of the shaft is supported by a bearing installed in the rear cover.

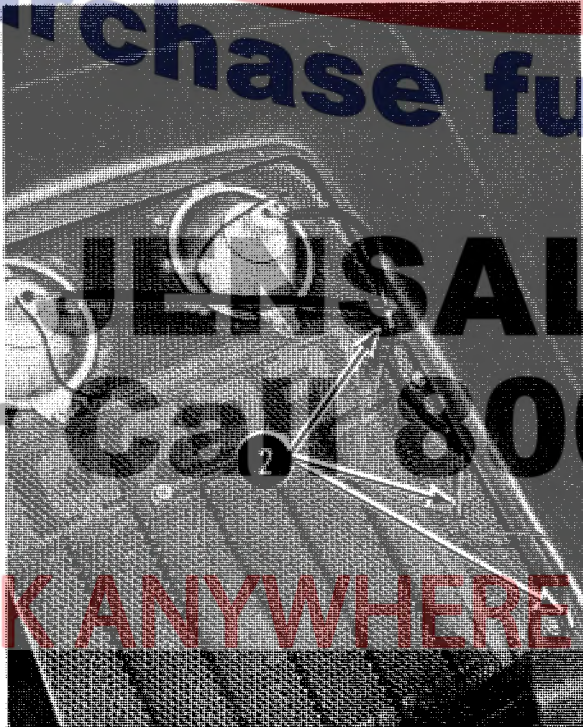
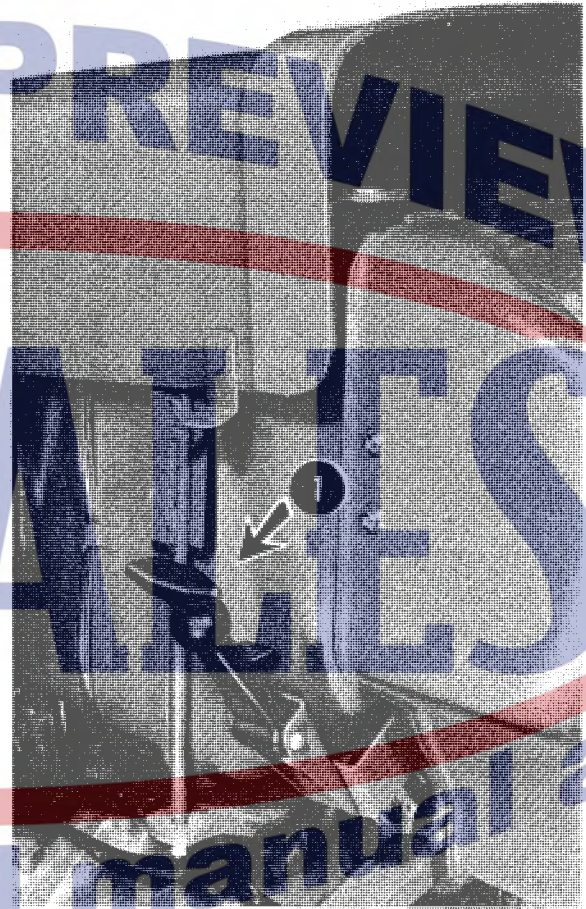
NOTE: For description and operation of the engine subsystems — fuel, cooling, lubrication, etc. — refer to the appropriate Chapter and Section.



REMOVAL

REMOVAL

- 1 Disengage the latches (one each side) and raise the hood.



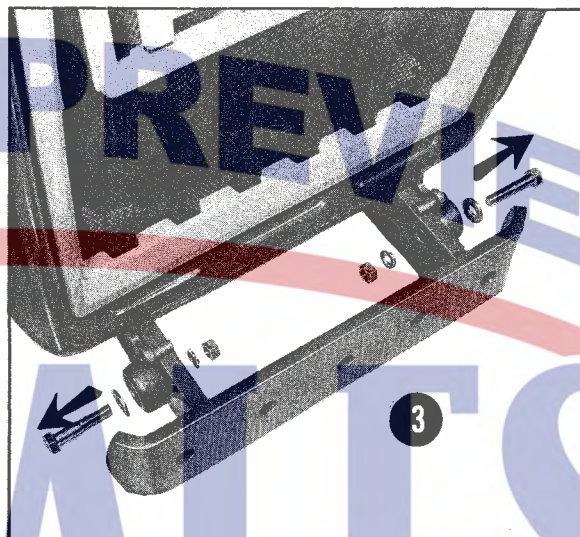
- 2 Disconnect the headlight wiring and disengage the wires from the routing clamps.

REMOVAL

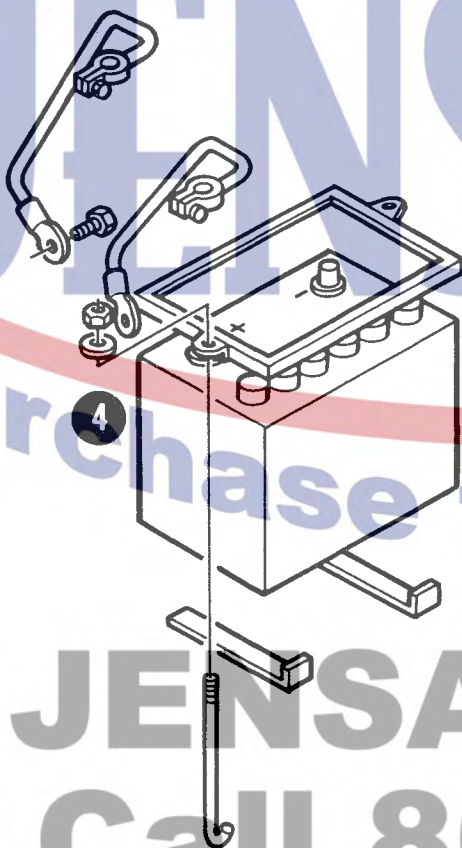
REMOVAL (Continued)

- 3** Close the hood, remove the hood's attaching hardware and lift the hood off the tractor.

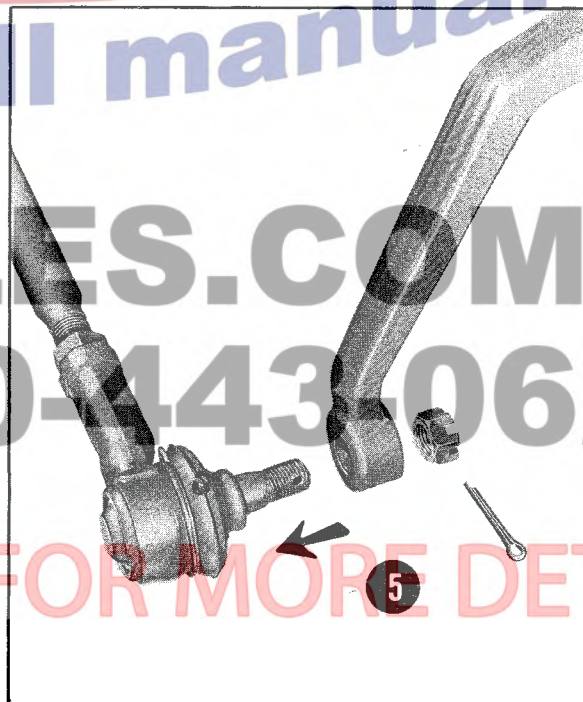
NOTE: After removing the lock nut, the bolt must be threaded out of the frame.



- 4** Remove the battery. Observe the safety precautions outlined in the Battery Chapter of the Electrical Part.



- 5** Disconnect the drag link from the steering gear pitman arm.



REMOVAL

REMOVAL (Continued)

- 11** Remove the radiator cap.



- 12** Open the radiator drain. Collect the coolant in a clean container.

- 13** Open the cylinder block drain. Collect the coolant in a clean container.

