

CLICK ANYWHERE FOR MORE DETAILS



MANUAL PREVIEW

J.I. Case

Service Manual

1835C

Uni-Loader

Gas & Diesel

Volume 1 of 2

JENSALES.COM

or Call 800-443-0625



CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
J.I. CASE OR IT'S SUCCESSORS. J.I. CASE 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.

CA-S-1835C

Service Manual

1835C Uni-Loader

Table of Contents

DIVISION/SECTION

SECTION NO.

FORM NO.

1 GENERAL

Safety Rules, Service Manual Introduction, and Torque Specifications	1001	8-68450
Diesel Engine Specifications	1010	8-58770
Gasoline Engine Specifications	1010	8-58780
General Machine Specifications	1210	8-68460
Maintenance and Lubrication	1212	8-68470

2 ENGINES

Engine Removal and Installation and Radiator Removal and Installation	2000	8-68500
Air Cleaner and Mufflers	2001	8-68510
Cylinder Head, Valve Train, and Camshaft - Gasoline	2015	8-57880
Cylinder head, Valve Train, and Camshaft - Diesel	2015	8-57960
Cylinder Block, Pistons, and Connecting Rods - Gasoline	2025	8-57890
Cylinder Block, Pistons, and Connecting Rods - Diesel	2025	8-57970
Crankshaft - Gasoline	2035	8-57900
Crankshaft - Diesel	2035	8-57980
Oil Pump - Gasoline	2045	8-57910
Oil Pump - Diesel	2045	8-57990
Cooling System - Gasoline	2055	8-57920
Cooling System - Diesel	2055	8-58000
Engine Lubrication - Gasoline	2555	8-57930
Engine Lubrication - Diesel	2555	8-58010
Ignition System - Gasoline	2065	8-5871®

3 FUEL SYSTEM

Engine Controls, Fuel Lines, and Fuel Tank	3001	8-68520
Carburetor, Fuel Pump, and Governor - Gasoline	3002	8-58700
Fuel Injection Pump and Fuel Filter - Diesel	3312	8-58810
Fuel Injectors and Glow Plugs - Diesel	3313	8-58800

4 ELECTRICAL

Removal and Installation of Electrical Components	4000	8-68530
Electrical Specifications and Troubleshooting	4002	8-68540
Electrical Schematics	4003	8-68550
Battery	4005	8-44360
Starter Motor - Gasoline	4006	8-57940
Starter and Solenoid - Diesel	4006	8-58020
Alternator - Gasoline	4007	8-57950
Alternator - Diesel	4007	8-58030

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

J I Case

A Tenneco Company



8-69340

6 POWER TRAIN

Removal and Installation of Power Train Components	6000	8-68560
Maintenance	6001	8-68570
Hydrostatic System Troubleshooting	6002	8-68580
Piston Pump	6004	8-68590
Motor	6005	8-68600
Controls	6006	8-68610
Sprockets, Chains and Axles	6007	8-68620
Drive Coupling	6010	8-70310
Wheels and Tires	6011	8-68640

7 BRAKES

Parking Latch and Lock for Loader Control Valve	7001	8-68650
---	------	---------

8 HYDRAULICS

Removal and Installation of Hydraulic Components	8000	8-68660
Maintenance	8001	8-68670
Hydraulic Schematics, Specifications and Troubleshooting ...	8002	8-68680
Cleaning the Hydraulic System and Hydrostatic System	8003	8-68360
Hydraulic Pump	8004	8-42910
Loader Control Valve	8005	8-42910
Auxiliary Control Valve	8006	8-49210
Cylinders	8090	8-68730

9 MOUNTED EQUIPMENT

Loader	9001	8-68740
ROPS Canopy, Seat, Seat Belts, and Operators Compartment	9003	8-68750
Auxiliary Hydraulic Installation	9004	8-68760

SCHEMATICS IN REAR POCKET

Electrical Schematic	B871031
Hydraulic Schematic	B871020

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

TABLE OF CONTENTS

GENERAL 3

DETAILED ENGINE SPECIFICATIONS

Valve Guides	4
Valve Springs	4
Rocker Arm	4
Cylinder Head	4
Camshaft	5
Tappets	5
Pistons	5
Piston Rings	5
Connecting Rods	5
Piston Pins	6
Crankshaft	6
Lubrication	7
Cooling	7
Injectors	7
Injection Pump	7
Starter Motor	7
Alternator	7

SPECIAL TORQUES 8

STANDARD TORQUES 9

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

STEP 89



876543

Loosen and remove the cap screws and washers that fasten to the radiator mounting brackets.

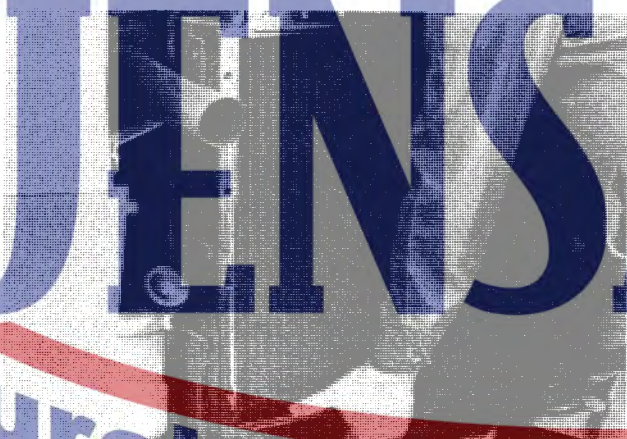
STEP 92



876532

Install the cap screws and washers that fasten the radiator to the radiator mounting brackets.

STEP 90



515930R

Pull the radiator to the rear to disconnect the bottom radiator hose from the engine. Remove the radiator from the machine.

STEP 93



876546

Install the cap screws, lock washers, and flat washers that fasten the radiator to the mounting straps.

Installation

STEP 91



515930R

Put the radiator in position on the radiator mounting brackets. Connect the bottom radiator hose to the engine.



876548

Install the hose for the coolant reservoir in the clamps on the radiator. Connect the hose to the radiator.

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

CLICK ANYWHERE FOR MORE DETAILS

STEP 174



Remove the timing cover retaining bolts.

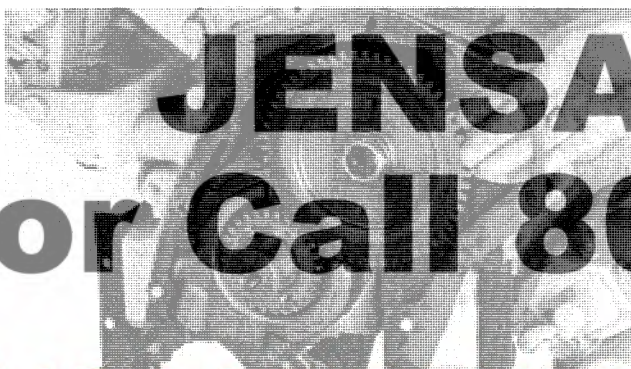
NOTE: The bolt shown has a copper washer, the remaining bolts are fitted with spring washers only.

STEP 175



Remove the timing cover.

STEP 176



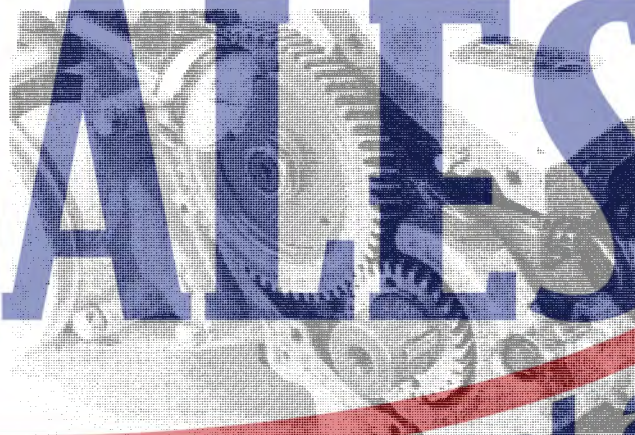
Remove the gasket.

STEP 177



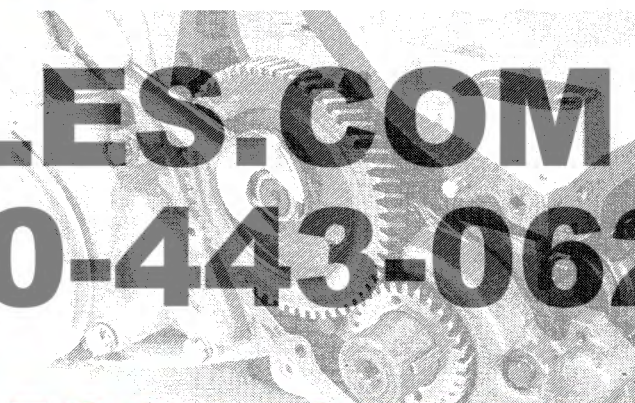
Remove the oil slinger plate.

STEP 178



Install a dial indicator and measure the camshaft end play. Replace the camshaft thrust plate if the end play is more than 0.007 inch (0.178mm).

STEP 179



Remove the camshaft gear retaining nut.

NOTE: The camshaft gear retaining nut must be replaced on assembly with a new one.

TABLE OF CONTENTS

SPECIFICATIONS 3

STANDARD TORQUES 3

THERMOSTAT

 Removal 4

 Inspection 4

 Installation 5

ENGINE OIL COOLER

 Removal 6

 Installation 8

WATER PUMP

 Removal 10

 Disassembly 12

 Inspection 14

 Assembly 15

 Installation 17

MANUAL PREVIEW

JENSALES®

purchase full manual at

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

3001

CLICK ANYWHERE FOR MORE DETAILS

ENGINE CONTROLS, FUEL LINES AND FUEL TANK

TABLE OF CONTENTS

Specifications	3001-2	Diesel Engine	3001-6
Gas Engine	3001-2	Throttle Linkage Adjustment	3001-6
Throttle Linkage Adjustment	3001-2	Illustration of Diesel Engine Controls ..	3001-7
Illustration of Gas Engine Controls	3001-3	Replacing the Fuel Filter	3001-8
Fuel Filter	3001-4	Illustration of Fuel Lines and Fuel Tank/Diesel Engine	3001-9
Fuel Tank	3001-4	Removing the Air From the Fuel System	3001-10
Illustration of Fuel Line and Fuel Tank/Gas Engine	3001-5		

purchase full manual at

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

4002

CLICK ANYWHERE FOR MORE DETAILS

ELECTRICAL SPECIFICATIONS AND TROUBLESHOOTING

TABLE OF CONTENTS

Specifications	4002-2	Troubleshooting the Ignition System	4002-10
Using Booster Batteries to Start the Engine	4002-3	Instrument Cluster	4002-12
Troubleshooting Charts	4002-4	Hourmeter	4002-12
Battery	4002-4	Warning Alarm	4002-12
Alternator	4002-4	Warning Lamps	4002-12
Starter	4002-5	General Information	4002-12
Troubleshooting the Charging Circuit	4002-6	Hydraulic Filter and Air Filter	4002-13
General Inspection	4002-6	Engine Temperature and Hydraulic Oil Temperature	4002-13
Checking Voltage at the Alternator Terminals	4002-6	Engine Oil Pressure and Hydraulic Oil Pressure (Charge PSI)	4002-13
Alternator and Voltage Regulator Test	4002-7	Battery	4002-14
Troubleshooting the Starting Circuit	4002-9	Seat Belt	4002-14
General Inspection	4002-9	Systems Normal	4002-14
Starter and Starter Solenoid Test	4002-9	Fuel gauge	4002-14
		Instrument Cluster Lamps	4002-15

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

J I Case

A Tenneco Company



8-68540