

CLICK ANYWHERE FOR MORE DETAILS



MANUAL PREVIEW

Caterpillar

Service Manual

D4 Crawler

S/n 24A, 39A, 40A,
54A, 55A & 69A

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
CATERPILLAR OR IT'S SUCCESSORS. CATERPILLAR 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.

CT-S-D4 39A1

CLICK ANYWHERE FOR MORE DETAILS

SERVICE MANUAL
MANUAL PREVIEW

for

CATERPILLAR

D4 TRACTOR

SERIAL NUMBERS 39A1-UP AND 40A1-UP

purchase full manual at

	Section
Engine	10
Starting Engine	20
Power Transmission Units	30
Track Roller Frame	40
Seat, Fuel Tank and Miscellaneous	200

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

Caterpillar Tractor Co., General Offices, Peoria, Illinois. • Caterpillar Americas Co., Peoria, Illinois. • Caterpillar Overseas S.A., Geneva. • Caterpillar of Australia Pty. Ltd., Melbourne. • Caterpillar Brasil S.A., São Paulo. • Caterpillar Tractor Co. Ltd., Glasgow. • Caterpillar of Canada Ltd., Toronto. • Caterpillar France S.A., Grenoble.

CLICK ANYWHERE FOR MORE DETAILS

ENGINE

TABLE OF CONTENTS

	Section	Group
Index	9A-10	30.3
Specifications	9A-10	40.3
General Instructions	1A-10	50
Cooling System	9A-10	70.2
Water Temperature Regulator	9A-10	100.1
Fan Group	9A-10	130.3
Water Pump	9A-10	140.3
Radiator	9A-10	160.3
Lubricating System	9A-10	170.3
Oil Pan	9A-10	180.2
Oil Pump	9A-10	190
Oil Filter	9A-10	210.3
Fuel System	9A-10	230.2
Fuel Supply Equipment	9A-10	240.3
Fuel Injection Equipment	9A-10	250.1
Governor	9A-10	260.3
Accessory Drive	9A-10	265.3
Air Induction and Exhaust System	9A-10	270.4
Cylinder Head	9A-10	280.4
Valve and Valve Mechanism	9A-10	290
Timing Gears	9A-10	320.3
Pistons, Rings and Connecting Rods	10A-10	340
Cylinder Liners	9A-10	350
Main Bearings	9A-10	360
Crankshaft	9A-10	370
Balancer	9A-10	380
Flywheel and Flywheel Housing	9A-10	390.2
Engine Removal and Installation	9A-10	400.2
Electrical System	9A-10	410.2

MANUAL PREVIEW

JENSALES®

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

ENGINE INDEX

CLICK ANYWHERE FOR MORE DETAILS

A		F	
Accessory Drive	265.3 - 1	Fan Assembly	130.3 - 1
Accessory Drive Gear	320.3 - 2	Fan Belt	130.3 - 1
Accessory Drive Shaft	265.3 - 3	Fan Belt Tightener	130.3 - 1
Adjustments:		Filter:	
Fuel Injection Pump Timing Dimension Setting	250.1 - 7	Fuel, Primary	240.3 - 3
Fuel Rack Setting	260.3 - 4	Oil	210.3 - 1
Governor	260.3 - 4	Flow of Coolant	70.2 - 1
Air Cleaner	270.4 - 1	Flow of Fuel	230.2 - 1
Air Inlet Manifold	270.4 - 1	Flow of Lubricating Oil	170.3 - 1
		Flywheel	390.2 - 1

B		G	
Backlash, Timing Gear	320.3 - 5	Fuel:	
Balancer	380 - 1	By-pass	240.3 - 2
Bearings:		Filter Housing	240.3 - 3
Balancer Shaft	380 - 1	Injection:	
Connecting Rod	340 - 2	Equipment	250.1 - 1
Main	360 - 1	Pumps	250.1 - 2
Breather, Crankcase	210.3 - 2	Pump Housing	250.1 - 3
By-pass:		Pump Lifters	250.1 - 6
Fuel	240.3 - 2	Valves	250.1 - 1
Oil Filter	210.3 - 1	System, Diesel	230.2 - 1
Oil Pump	190 - 1	Transfer Pump	240.3 - 1
		Priming Pump	240.3 - 3

C		H	
Camshaft Gear	320.3 - 4	Gauge:	
Chambers, Precombustion	280.4 - 2	Fuel	230.2 - 1
Cleaner, Air	270.4 - 1	Oil	170.3 - 1
Cleaning:		Gear:	
Engine Valves	290 - 2	Accessory Drive	320.3 - 2
Fuel Injection Valve	250.1 - 1	Camshaft	320.3 - 4
Pistons	340 - 1	Crankshaft	370 - 1
Temperature Regulator	100.1 - 1	Idler	320.3 - 5
Clearances and Tolerances	40.3 - 1	Ring, Flywheel	390.2 - 1
Compression Release Mechanism	290 - 3	Timing	320.3 - 1
Connecting Rods and Bearings	340 - 2	Timing Marks	320.3 - 1
Cooling System	70.2 - 1	Generator	410.2 - 1
Core, Radiator	160.3 - 1	Generator Regulator	410.2 - 1
Cover, Timing Gear	320.3 - 2	Governor:	
Crankshaft	370 - 1	Adjustments	260.3 - 4
Crankshaft Pulley	320.3 - 1	Operation and Lubrication	260.3 - 1
Cylinder Head	280.4 - 1	Governor and Fuel Injection	
Cylinder Liners	350 - 1	Pump Housing Removal	265.3 - 1

D		I	
Directors, Water	280.4 - 2	Idler Gear	320.3 - 5
Drive:		Injection, Fuel	250.1 - 1
Accessory	265.3 - 1	Inlet:	
Tachometer	260.3 - 4	Air Heater Pipe	270.4 - 1
		Manifold	270.4 - 1
		Valves	290 - 2

E		J	
Electric Starting Motor	410.2 - 1		
Electrical System	410.2 - 1		
Engine Data	40.3 - 1		
Exhaust Manifold	270.4 - 1		

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW
JENS SALES
purchase full manual at
JENS SALES.COM
or Call 800-443-0625

ENGINE INDEX

L

Lifters:
 Fuel Injection Pump 250.1 - 6
 Valve 290 - 3

Liners, Cylinder 350 - 1

Lubricating System 170.3 - 1

Lubrication:
 Piston and Ring 340 - 1

M

Main Bearings 360 - 1

Manifolds:
 Exhaust 270.4 - 1
 Fuel 230.2 - 1
 Inlet 270.4 - 1
 Oil 170.3 - 1

Meter, Service 265.3 - 3

O

Oil:
 By-pass Valve 210.3 - 1
 Filter 210.3 - 1
 Manifold 170.3 - 1
 Pan 180.2 - 1
 Pan Plate 180.2 - 1
 Pump 190 - 1

Operating Difficulties:
 Engine Coolant Overheating 70.2 - 1
 Engine Fuel System 230.2 - 1
 Engine Lubricating System 170.3 - 1

Overflow, Sealed Pressure 160.3 - 1

Overheating, Coolant 70.2 - 1

P

Pan, Oil 180.2 - 1

Pistons 340 - 1

Piston Rings 340 - 1

Plate, Oil Pan 180.2 - 1

Precombustion Chambers 280.4 - 2

Pump:
 Fuel:
 Injection 250.1 - 2
 Priming 240.3 - 3
 Transfer 240.3 - 1

Oil 190 - 1

Water 140.3 - 1

Pressure, Oil
 Gauge 170.3 - 2
 170.3 - 1

R

Radiator 160.3 - 1

Removing Ring Ridge in Cylinder Liners 350 - 2

Regulator, Water Temperature 100.1 - 1

Release, Compression 290 - 3

Ring Gear, Flywheel 390.2 - 1

Rings, Piston 340 - 2

Rocker Arms, Valve 290 - 1

Rod, Connecting 340 - 2

Running-in Schedule 340 - 2

S

Seal Replacement, Water Pump 140.3 - 2

Seals, Liner 350 - 1

Service Meter 265.3 - 3

Shaft, Accessory Drive 265.3 - 1

Specifications 40.3 - 1

Springs:
 Governor 260.3 - 1
 Valve 290 - 2

T

Testing Temperature Regulator 100.1 - 1

Thrust Bearing, Crankshaft 370 - 2

Timing:
 Engine Gears 320.3 - 1
 Engine Valves 290 - 3
 Fuel Injection 250.1 - 7

Timing Gear Cover 320.3 - 2

Timing Gears 320.3 - 1

Timing Marks 320.3 - 1

Tolerances 40.3 - 1

V

Valve:
 By-pass, Fuel 240.3 - 2
 By-pass, Oil 210.3 - 1
 Inlet and Exhaust 290 - 2
 Fuel Injection 250.1 - 1
 Inspection and Reconditioning 290 - 2
 Lifters 290 - 3
 Operation 290 - 1
 Pressure Regulator, Oil Pump 190 - 1
 Rocker Arm Assembly 290 - 1
 Seat Specifications 40.3 - 7
 Stem Bushings 290 - 3
 Timing 290 - 3

Valves and Valve Mechanism 290 - 1

W

Water:
 Directors, Seals and Ferrules 280.4 - 2
 Pump 140.3 - 1
 Seal Replacement 140.3 - 2
 Temperature Regulator 100.1 - 1

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENSALES

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

ENGINE SPECIFICATIONS

Crankshaft

Main journal diameter	3.499 - 3.500 in.
Permissible main journal wear	.008 in.
Main bearing clearance (Earlier)	.0053 - .0082 in.
Permissible bearing clearance (Earlier)	.013 in.
Main bearing clearance (Later-with lead-tin overlay)	.0030 - .0059 in.
Permissible bearing clearance (Later)	.010 in.
End clearance	.0110 - .0180 in.
Permissible end clearance	.035 in.
Main bearing nut torque	155 lb. ft.
Connecting rod journal diameter	2.999 - 3.000 in.
Permissible journal wear	.007 in.
Permissible out-of-round	.004 in.
Pulley retaining bolt torque	210 - 250 lb. ft.

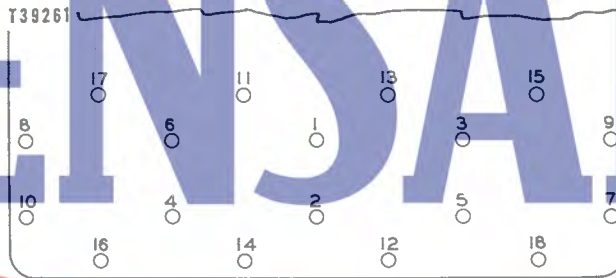
Cylinder Block

Main bearing original bore dimension	3.8155 - 3.8165 in.
--------------------------------------	---------------------

Cylinder Head

Tighten bolts in sequence shown in illustration.

Initial	85 lb. ft.
Final	120 - 130 lb. ft.



CYLINDER HEAD BOLT TIGHTENING SEQUENCE

Cylinder Liner (Use 5F7362 Adapter Plate for Removal)

Inside diameter	4.500 - 4.501 in.
Permissible liner wear (increase in diameter at top of ring travel)	.015 in.
Counterbore dimension in block	.400 - .402 in.
Flange thickness	.403 - .405 in.

Fan Belt Tension

Slack at point midway between pulleys	9/16 - 13/16 in.
---------------------------------------	------------------

Flywheel

Retaining bolt torque	118 - 142 lb. ft.
-----------------------	-------------------

Flywheel Housing

Retaining bolt torque	60 - 70 lb. ft.
-----------------------	-----------------

Fuel Injection Equipment

Fuel injection pump timing	9° BTC
Fuel injection pump timing dimension setting (off engine using 2M5219 Gauge)	4.2655 - 4.2695 in.
Fuel pump plunger length	2.5935 - 2.5937 in.
Fuel injection pump timing dimension setting (on engine with pistons at top center using 2M5219 Gauge)	4.2340 - 4.2380 in.

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENSALES

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

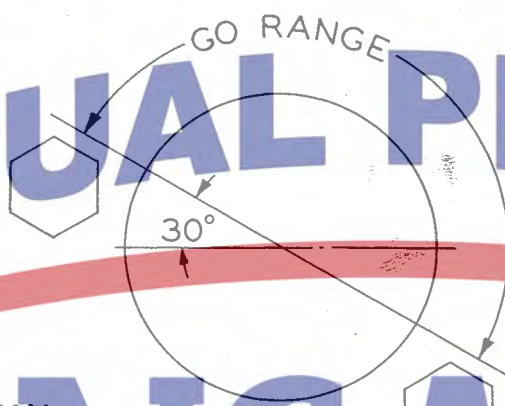
**ENGINE
SPECIFICATIONS**

Precombustion Chamber

Torque 150 lb. ft.
Glow plug torque 8-10 lb. ft.

CLICK ANYWHERE FOR MORE DETAILS

CENTERLINE OF ENGINE



147386

PRECOMBUSTION CHAMBER POSITIONING DIAGRAM

The precombustion chamber gasket is supplied in two different thicknesses. With the proper thickness gasket and the recommended torque to tighten the chambers into the head, the glow plugs and electrical connections will be positioned in the "go" range. The "go" range is the position in which the glow plugs will be clear of fuel lines and other points of interference, when installed in the precombustion chamber.

The diagram can be used to position the precombustion chambers if new gasket are installed.

Rocker Arm

Bearing bore7260 - .7266 in.
Clearance between shaft and bearing0010 - .0026 in.
Permissible clearance008 in.
Retaining bolt torque 120 lb. ft.

Starting Motor 24 V (Delco-Remy 1113818)

Brush spring tension (minimum) 35 oz.
Rotation (viewing drive end) Clockwise
No load test:
Volts 23.0
Maximum amps 100
Lock test:
Volts 3.0
Maximum amps 500
Minimum torque 28 lb. ft.

Timing Gear Housing

Retaining bolt torque 24-30 lb. ft.

Valves

Exhaust:
Clearance (hot)020 in.
Clearance (cold)028 in.
Stem clearance in bushing003 - .005 in.
Permissible clearance with new valve009 in.

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENSALES

purchase full manual at

JENSALES.COM
or call 800-443-0625

ENGINE WATER PUMP



IMPELLER REMOVAL



WATER PUMP BEARING REMOVAL

5. After the bearing and shaft have been removed, the bearing (13) can be pressed off the shaft.

NOTE

To avoid damaging the carbon-faced, self-adjusting seal, it should be installed after the shaft and bearings are assembled in the housing.

6. When pressing the bearing onto the shaft, place the shielded side of the bearing so it will be toward the outside of the water pump housing.
7. Install the seal (12) into the housing. Install the seal so the lip will be toward the impeller.
8. Pack the rear bearing with ball and roller bearing lubricant and install the shaft and bearing assembly into the water pump housing.
9. Pack the bearing compartment with ball and roller bearing lubricant.

10. Install the seal (16) with the wiping edge toward the inside.

11. Prior to installing the pulley make certain the key is in the shaft. Also make certain the mounting bolts are in place in the water pump housing.

12. See the topic, SPECIFICATIONS, for the proper pulley retaining nut torque.

13. Press the impeller onto the shaft. See the topic, SPECIFICATIONS, for the correct impeller to housing clearance.

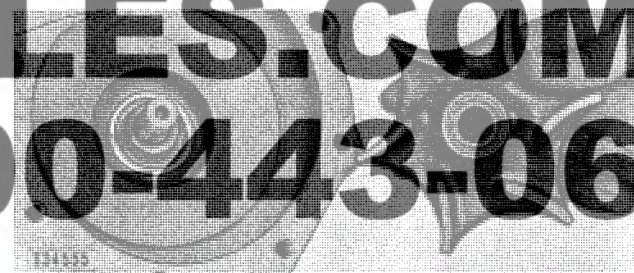


INSTALLING IMPELLER ASSEMBLY

WATER PUMP SEAL REPLACEMENT

Water leaking from the drain opening on the bottom of the pump housing indicates that the water seal assembly should be replaced.

Inspect the ceramic bearing surface on the impeller which contacts the carbon thrust washer. The contact surface must be smooth and free of roughness or nicks.



INSPECTING BEARING SURFACE ON IMPELLER

The seal assembly consists of a carbon thrust washer (1), a flexible seal (2), and a seal spring (4) all retained in a seal cup (5) by the seal retainer (3). The carbon thrust washer (1) is cemented to the flexible seal (2). The entire assembly must be replaced as a unit and is pressed in the water pump housing.

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENSALES[®]

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

ENGINE OIL FILTER

Oil Filter

FLOW OF OIL THROUGH THE OIL FILTER

Unfiltered oil is delivered by the oil pump through an external line (3) to the oil filter. The oil flows up around the filter element (1) and is filtered as it passes through the element. The filtered oil flows down the center of the element, through passage (2) and into the oil distribution manifold.

Prior to installation, replace any damaged gaskets or O-ring seals.



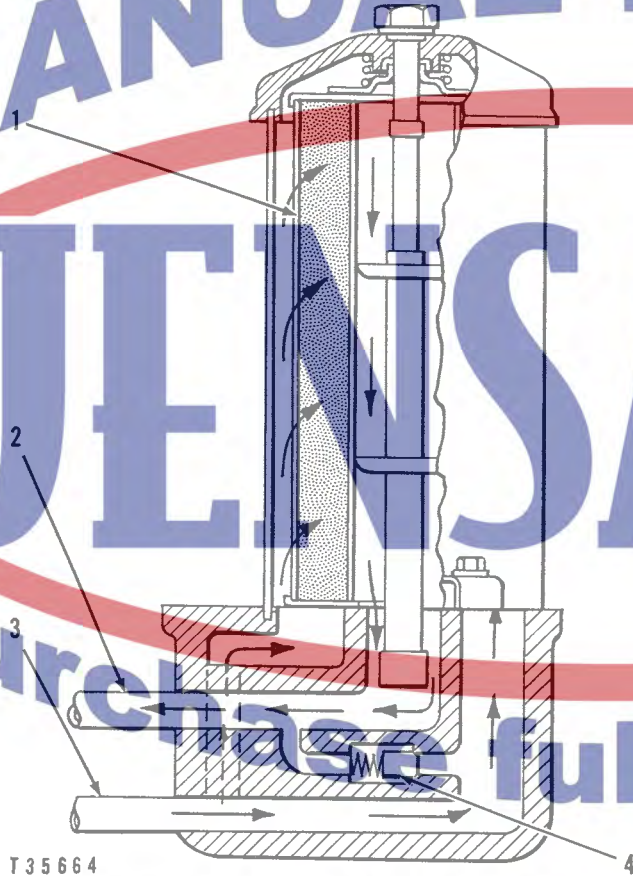
PREPARING TO REMOVE OIL FILTER GROUP

Remove

1-Oil filter inlet line. 2-Oil filter group.

DISASSEMBLY

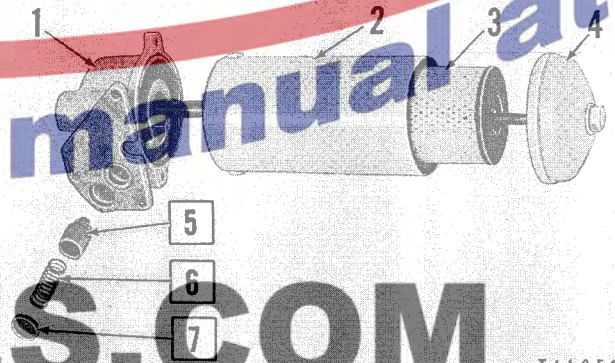
Unscrew the cover assembly (4) and remove the filter element (3) and case (2), after removing the retaining bolts, from the base (1).



T 35 664

FLOW OF OIL THROUGH OIL FILTER (SCHEMATIC)

1-Filter element. 2-Passage. 3-Line. 4-By-pass valve.



T 41 651

OIL FILTER DISASSEMBLY

Remove

1-Filter base. 2-Filter case. 3-Filter element. 4-Cover assembly. 5-By-pass valve plunger. 6-Spring. 7-Plug.

REMOVAL AND INSTALLATION

Removing the oil filter inlet line (1) drains the oil from the filter.

Prior to assembly, inspect and replace the O-ring seal if damaged.

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW
JENS SALES
purchase full manual at

JENS SALES.COM
or call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

STARTING ENGINE

CLICK ANYWHERE FOR MORE DETAILS

INDEX

A		Housing:	
Adjustments:		Starter Pinion	160 - 1
Carburetor	100 - 3	160.1 - 1	
Clutch	160 - 5	Timing Chain	130 - 1
160.1 - 6		130 - 3	
Control Mechanism	160 - 5	130.1 - 1	
160.1 - 7		130.1 - 6	
Governor	130 - 3		
130.1 - 5			
Valve Clearance	110 - 3		

B		L	
Bearings:		Lifters, Valve	110 - 3
Connecting Rod	120 - 1	Lubricating System	90 - 1
Main	140 - 2	90.1 - 1	
Piston Pin	120 - 1		
Brake, Starter Pinion	160 - 3		
160.1 - 3			

C		M	
Cable, Starter	130 - 1	Magneto Drive Trunnion	130 - 3
130.1 - 2		130.1 - 4	
Camshaft	130 - 4	Main Bearings	140 - 2
130.1 - 5		Mechanism, Valve	110 - 1
Camshaft End Clearance	130 - 4		
130.1 - 6			
Carburetor	100 - 1		
Chain, Timing	130 - 4		
130.1 - 6			
Clearances and Tolerances	40 - 1		
Cleaning Valves	110 - 2		
Clutch	160 - 4		
160.1 - 5			
Clutch Pinion and Brake Control	160 - 5		
160.1 - 6			
Connecting Rods	120 - 1		
Connecting Rod Bearings	120 - 1		
Crankshaft	140 - 1		
Crankshaft End Clearance	140 - 2		
Cylinder Head	110 - 1		
Cylinders	120 - 2		

D		O	
Data, Engine	40 - 1	Oil:	
		Pump	90 - 2
		90.1 - 2	
		Pump Pressure Regulating Valve	90 - 3
		90.1 - 3	

E		P	
Fuel System	100 - 1	Pan, Oil	90.1 - 1
		Pan Plate, Oil	90.1 - 1
		Pinion, Starter	160 - 1
		160.1 - 1	
		Pinion, Mechanism	160 - 2
		160.1 - 2	
		Pistons	120 - 2
		Piston Pin Bearings	120 - 1
		Pressure Regulating Valve	90 - 3
		90.1 - 3	
		Pump, Oil	90 - 2
		90.1 - 2	

F		R	
Governor	130 - 3	Recoil Starter	130 - 1
130.1 - 3		130.1 - 1	
		Removing Engine	80 - 1
		Rings, Piston	120 - 2
		Rocker Arms	110 - 1
		Rods, Connecting	120 - 1

G		S	
Gear:		Specifications	40 - 1
Oil Pump	90 - 2	Starter Cable	130 - 1
90.1 - 2		130.1 - 2	
Governor	130 - 3	Starter Pinion	160 - 1
130.1 - 3		160.1 - 1	
		Starter Pinion Brake	160 - 3
		160.1 - 3	
		Starter, Recoil	130 - 1

H		S	
Head, Cylinder	110 - 1		

MANUAL PREVIEW

JENSALES

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

STARTING ENGINE INDEX

Starting Engine Ring Gear	140 - 1	Trunnion, Magneto Drive	130 - 3
Starting Mechanism	130 - 1		130.1 - 4
	130.1 - 1		
Timing Chain	130 - 4	Valve:	
	130.1 - 6	Clearance Adjustment	110 - 3
Timing Chain Housing	130 - 1	Components	110 - 1
	130.1 - 1	Lifters	110 - 3
Timing the Engine	130 - 4	Mechanism	110 - 1
	130.1 - 6	Pressure Regulating	90 - 3
Tolerances	40 - 1		90.1 - 3
		Rocker Arms	110 - 1

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENSALES®

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

POWER TRANSMISSION UNITS

CLICK ANYWHERE FOR MORE DETAILS

INDEX

A		G	
Adjustments:		Gear:	
Bevel Gear Backlash	140 - 3	Bevel	140 - 1
Bevel Gear Bearing	140 - 2	Final Drive	180 - 3
Bevel Pinion Location	140 - 3	Pinion, Final Drive	180 - 8
Brakes	150 - 2	Shift Mechanism	110 - 1
Final Drive	180 - 9	Gear Shift and Interlock Mechanism	110 - 1
Sprocket	180 - 6		
Sprocket Hub Bearings	180 - 7	I	
Flywheel Clutch (Dry Type)	80 - 6	Idler Pinion, Final Drive	180 - 9
Flywheel Clutch (Oil Type)	80.1 - 7	Interlock Mechanism, Gear Shift	110 - 1
Brake	80.1 - 7		
Steering Clutch Controls	170 - 2	O	
Transmission:		Oil Pump:	
Bearing Races	120 - 4	Flywheel Clutch	80.1 - 3
B			
Bevel Gear	140 - 1	P	
Bevel Gear Bearings	140 - 1	Pinion, Final Drive Idler	180 - 8
Bevel Gear and Pinion Settings	140 - 2	Plate, Steering Clutch	160 - 4
Brakes:			
Flywheel Clutch	80.1 - 6	S	
Steering Clutch	150 - 1	Seals, Cementing	180 - 8
C		Seals, Final Drive	180 - 8
Cementing Seals	180 - 8	Shaft, Final Drive Sprocket	180 - 4
Clearances and Tolerances	40 - 1	Specifications	40 - 1
Clutch:		Sprocket, Final Drive	180 - 2
Flywheel (Dry Type)	80 - 1	Steering Clutch	160 - 1
Flywheel (Oil Type)	80.1 - 1	Brakes	150 - 1
Steering	160 - 1	Controls	170 - 1
Controls, Steering Clutch	170 - 1	Plates	160 - 4
		Release Bearing and Yoke	160 - 5
F		Shaft	160 - 3
Final Drive	180 - 1		
Gear	180 - 3	T	
Pinion	180 - 8	Transmission	120 - 1
Seal	180 - 8	Gear Shift and Interlock Mechanism	110 - 1
Shaft, Sprocket	180 - 4		
Sprocket	180 - 2	Y	
Flywheel Clutch (Dry Type)	80 - 1	Yoke, Steering Clutch Release	160 - 5
Flywheel Clutch (Oil Type)	80.1 - 1		
Oil Pump	80 - 3		

MANUAL PREVIEW

JENSALES

purchase full manual at

JENSALES.COM

or call **800-443-0625**

CLICK ANYWHERE FOR MORE DETAILS

TRACK ROLLER FRAME INDEX

CLICK ANYWHERE FOR MORE DETAILS

A		M	
Adjustments:			
Front Idler	100	-	3
Track Adjusting Mechanism	100	-	5
Track Carrier Roller	90	-	3
B		P	
Bushings, Track Pins and	80	-	3
C		R	
Carrier Rollers, Track	90	-	1
Clearances and Tolerances	40	-	1
E		S	
Equalizer Spring	110	-	1
F		T	
Floating Ring Seal Installation	90	-	6
Frame Removal, Track Roller	120	-	1
Front Idler	100	-	1
I		T	
Idler, Front	100	-	1
Introduction, Track Roller Frame	70	-	1
L		T	
Links, Track	80	-	1
Lubrication:			
Front Idler	100	-	1
Track Carrier Rollers	90	-	1
Track Rollers	90	-	3
M		T	
Master Pin	80	-	1
Mechanism, Track Adjusting	100	-	5
Metal Floating Ring Seal Installation	90	-	6
P		R	
Pins and Bushings, Track	80	-	3
R		S	
Recoil Spring	100	-	4
Rollers:			
Carrier, Track	90	-	1
Track	90	-	3
Roller Frame Removal, Track	120	-	1
S		T	
Separating Tracks	80	-	1
Specifications	40	-	1
Spring:			
Equalizer	110	-	1
Recoil	100	-	4
T		T	
Tracks	80	-	1
Track:			
Adjusting Mechanism	100	-	5
Carrier Rollers	90	-	1
Installing	80	-	2
Links	80	-	3
Pins and Bushings	80	-	3
Rollers	90	-	3
Separating	80	-	1
Track Roller Frame Introduction	70	-	1
Track Roller Frame Removal	120	-	1

MANUAL PREVIEW

JENSALES

purchase full manual at

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS