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MANUAL PREVIEW

J.I. Case

Operator's Manual

580CK

Series B

Shuttle Transmission

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Operator's Manual

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Diesel Engine

SPECIFICATIONS

General

Type	"Case" Open Chamber Combustion - 4 Cyl. - Valve-in-Head.
Firing Order	1-3-4-2
Cylinder Bore	3-13/16 Inch (96.8mm)
Stroke	4-1/8 Inch (104.8mm)
Piston Displacement	188 cu. in (3 080.8cm ³)
Compression Ratio	17.5 to 1
*Valve Tappet Clearance	
(Exhaust)	(Hot and Cold) .014 Inches (0.356mm)
(Intake)	(Hot and Cold) .012 Inch (.305mm)
Cylinder Sleeves	Removable Wet Type
Engine Idle Speed	600 to 650 RPM
Rated Engine Speed (Mech. Shuttle)	1900 RPM
Rated Engine Speed (Power Shuttle)	2100 RPM
No Load Speed (Mechanical Shuttle)	2060 RPM
No Load Speed (Power Shuttle)	2250 RPM

*Hot Settings Are Made After the Engine has Operated At
Thermostat Controlled Temperature For At Least Fifteen Minutes.

Piston and Connecting Rods

Rings per Piston	1
Compression Rings	2
Oil Rings	1
Piston Pins	Full Floating Type
Connecting Rod Bearings	Replaceable Precision Steel Back, Copper-Lead or Aluminum Alloy Liners.

Main Bearings

Number of Main Bearings	5
Type Bearings	Replaceable Precision Steel Back, Copper-Lead or Aluminum Alloy Liners.

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POWER STEERING SYSTEM

Capacity (Steering System) ----- 3 U.S. Qts. (2.8 litres)
Capacity (Reservoir Only) ----- 1 U.S. Qt. (0.946 litres)
Type Fluid ----- Case TCH Fluid
Filter Change Interval ----- 1000 Hours

Filter Element

A replaceable filter element is provided in the reservoir shell. Replace the element every 1000 hours of operation (more often in severe dust conditions). **IMPORTANT:** Before removing steering reservoir shell, mark both shell and pump body. When reinstalling shell, make sure marks are aligned. This is to insure a good seal and correct fluid level reading on dipstick.

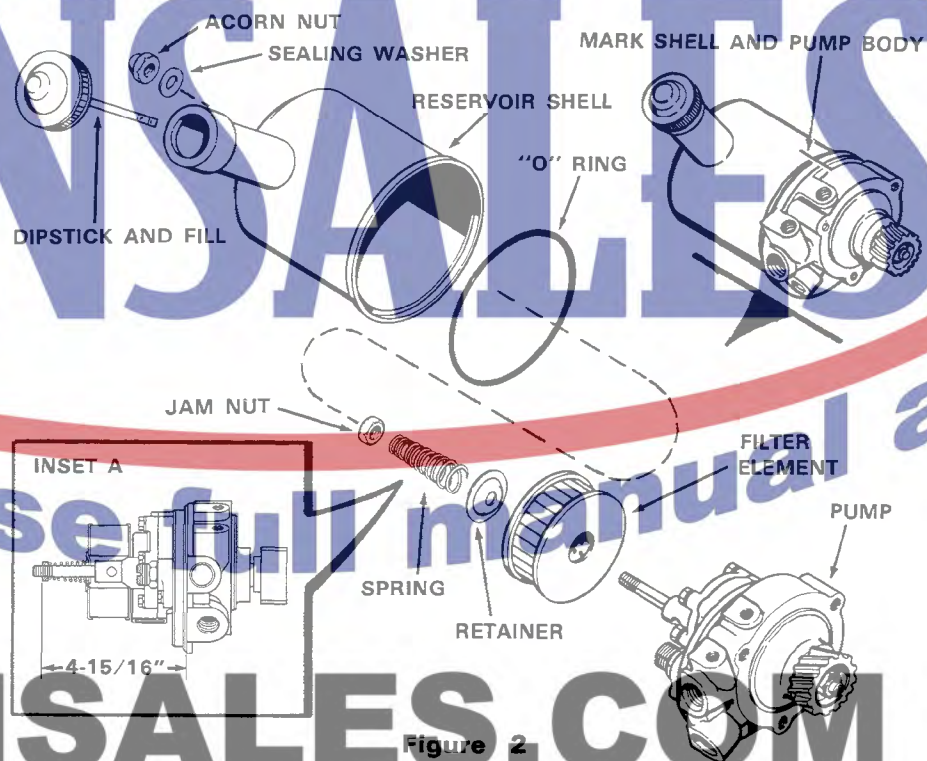


Figure 2

To replace filter element, remove the acorn nut, seal, reservoir shell, special hex. nut, spring and retainer. Remove contaminated filter element. Install new element, retainer, spring and jam nut. Compress the spring from the outside of the jam nut to the shell flange on the pump body to 4-15/16" (125.4mm), Inset A. Install "O" ring, shell, seal and acorn nut. Refer to reservoir fluid level as described on Page 25.

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REPLACING FAN BELT

1. Loosen the alternator adjusting and mounting bolts, then swing the alternator inward, and remove fan belt.
2. Slip the new fan belt over the fan, and onto the fan pulley, crankshaft pulley and the alternator pulley.
3. Tighten the new fan belt to 60 lbs. (267 N) tension or 1/2 inch (12.7mm) deflection. **NOTE** Readjust new installed belt after 50 hours of operation as described in belt adjustments. **CAUTION** When using pry bar to put tension on the fan belt, apply pressure only to the front housing cast area of the alternator.



Figure 48

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TABLE OF CONTENTS

SAFETY PRECAUTIONS	I,II
SERIAL NUMBERS	3
DIESEL ENGINE SPECIFICATIONS	4,5
SPARK IGNITION ENGINE SPECIFICATIONS	6,7
GENERAL SPECIFICATIONS	8-13
Cooling System	8
Electrical System	8
Hydrostatic Power Steering	9
Differential Brakes	9
Parking Brakes	9
Power Shuttle	9
Mechanical Shuttle	10
Power Take-Off	10
Belt Pulley	10
Front Tires and Pressures	11
Rear Tires and Pressures	11
Approximate Overall Measurements	12
Approximate Travel Speeds	13
FUEL SPECIFICATIONS	14-16
Gasoline	14
Diesel	15
Fuel Conditioner	16
LUBRICATION AND SERVICING	17-33
Engine Hour Meter	17
Recommendations and Capacities	18
Lubrication Chart	18,19
Diesel Engine Lubrication	20
Spark Ignition Engine Lubrication	21
Engine Crankcase Oil Change	22
Engine Oil Filter	23
Power Steering System	24
Steering Filter Element	24
Filling Reservoir and Bleeding Steering System	25
Checking Fluid Level	25
Power Steering Fluid Temperature	26-28
Engine Air Cleaner System	26-28
Torque Converter Filter	29
Torque Tube Fluid Change and Level Check	30
Torque Tube Breather	30
Trans. Case Fluid Change and Level Check	31
Transmission Breather	31
Packing Front Wheel Bearings	32

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TABLE OF CONTENTS (Continued)

SAFETY PRECAUTIONS

Alternator Charging Systems (Do's and Don'ts)	33
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OPERATING INSTRUCTIONS

Run-In Procedure	34
Pre-Starting Check List	35
Tractor Towing	35
Operating Controls and Instruments	36-48
Fuel Tank Shut-Off and Water Trap	48
Operator's Seat	49
Warning Lamps and SMV Symbol	50
Starting Procedure	51
Stopping Procedure	52
Cold Weather Operation	53,54
Cold Weather Starting Procedure	55
Cold Weather Starting Fluid	56
Coolant Heater	56
Power Shuttle Operation	57
Mechanical Shuttle Operation	58
Independent Power Take-Off	59
Power Take-Off Guards	60
PTO Operating Precautions	60
Belt Pulley	61,62
Differential Lock	63
Rear Wheel and Tire Mounting	64
Front Wheel Mounting	65
Rear Wheel Weights	65
Rear Tire Liquid Weight	65

PREVENTIVE MAINTENANCE

Cooling System	66-92
Thermostat Replacement	67,68
Cleaning the Cooling System	69
Fan Belt Replacement	70
Diesel Fuel System (Prior to Eng. SN 2718490)	72
Servicing Fuel Filters (Prior to Eng. SN 2718490)	73-75
Diesel Fuel System (Starting w/Eng. SN 2718490)	75
Servicing Fuel Filters (Starting w/Eng. SN 2718490)	76,77
Bleeding Diesel Fuel System	77
Gasoline Fuel System	78
Fuel Strainer and Filter	79,80
Carburetor and Adjustments	79,80
Adjusting Differential Brakes	81
Parking Brake Adjustment	82
Neutral Start Switch Adjustment	82

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TABLE OF CONTENTS (Continued)

PREVENTIVE MAINTENANCE (Continued)

Power Shuttle Linkage Adjustment	83
Mechanical Foot Clutch Adjustment	84
PTO Clutch Adjustment	85
Spark Plugs	86
Distributor	87,88
Checking and Setting Ignition Timing	88,89
Electrical System	90-94
Headlights	90
Fuse Holder	90
Transmission and Engine Oil Light	90
Instrument Panel Lights	90
Rear Flood Light	91
Rear Tail and Flashing Amber Lights	91
Batteries	92-94

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