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MANUAL PREVIEW

J.I. Case

Operator's Manual

850

Diesel Crawler

Operator's Manual

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CA-O-850 CRWLR

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Figure 4

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To avoid confusion when following the instructions in this manual, the use of the terms "right hand" and "left hand" must be understood. "Right hand" and "left hand" indicate the right and left sides of the machine as viewed from the operator's seat.

Serial Numbers

When ordering parts from your Authorized Case Dealer and in all contacts or correspondence relative to your machine, always specify the Model and Serial Number of the machine, its major components, and the equipment (such as the loader, dozer, ripper, etc.) mounted on the unit.



Figure 5

The crawler model and serial numbers are stamped on a plate located on the front of the left hand arm rest.

The engine serial number plate is attached to the right hand side of the engine block just to the front of the fuel injection pump. The transmission serial number plate is located in the upper right hand corner on the rear of the transmission case.

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general specifications

CASE®

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DIESEL ENGINE

General

Make and Type CASE, Full Diesel, 4 cylinder, 4 stroke cycle, valve in head

Maximum Rated Horsepower

1 - (Gross) 73.7 @ 1900 RPM

2 - (SAE Net) 66.0 @ 1900 RPM

1. Manufacturer's rating of maximum engine horsepower at flywheel when equipped with oil and water pumps. Fuel set at maximum quantity for this application. Corrected to sea level -29.92" Hg. and 60° F. dry air.

2. SAE net flywheel horsepower of engine as applied to this vehicle when equipped with operating accessories including oil and water pumps, alternator, air cleaner, fan and muffler. Corrected to 500' altitude with .38" Hg. vapor pressure (29.38" Hg. observed barometer) and 85° F. air (per SAE J816a).

Firing Order 1-3-4-2

Cylinder Bore 4-3/8"

Stroke 5"

Piston Displacement 301 cu. in.

Compression Ratio 15 to 1

Cylinder Sleeves Replaceable wet type

Full Governed Engine Speed

(No Load) 2050-2100 RPM

(Full Load) 1900 RPM

Engine Low Idle 600-650 RPM

*Valve Tappet Clearance025" (Hot)

*Hot settings are made at low idle after the engine has operated at thermostat control temperature for at least 15 minutes.

General

*Gauge	54"
*Overall Width	68"
*Overall Height (To top of exhaust stack)	7' 4"
(To top of rear light)	6' 0"
*Overall Length (With drawbar)	10' 6-1/2"
(Without drawbar)	10' 1-1/2"
*Ground Clearance (With drawbar)	10"
*Turning Clearance Circle (Brake turn)	14' 6"

Brake System

Type of System	Hydraulic actuated disc brakes which neutralize the power drive
Parking Brake	Mechanical, hand-operated, over center type
Brake Fluid	Heavy duty, SAE 70R1

Track System

*Track Gauge	54"
*Track Shoes (Standard) Drawbar and Dozer Models	14" grousers
Loader Models	12" Semi-Grousers
(Optional)	10", 12", 13" 15", 16", 17", 18", 20", 22"
*Track Shoe Types (Heat Treated)	Semi-Grouser - Closed
	Semi-Grouser
	Grouser
	Grouser - Open Center
	Grouser - Ice
	Semi-Grouser - Closed 14" Offset
	Semi-Grouser - 14" Offset
	Semi-Grouser - 10" Mining Special
	Rubber Track Shoe Set

*Lower Track Rollers (Drawbar and Dozer Models) ..	5 each side
(Loader Models)	6 each side
*Track Carrier Rollers (Drawbar and Dozer Models)	1 each side
(Loader Models)	2 each side
*Length of Track on Ground (Drawbar and Dozer Models) ..	73"
(Loader Models)	82"
Shoes and Track (Dozer and Drawbar)	36
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