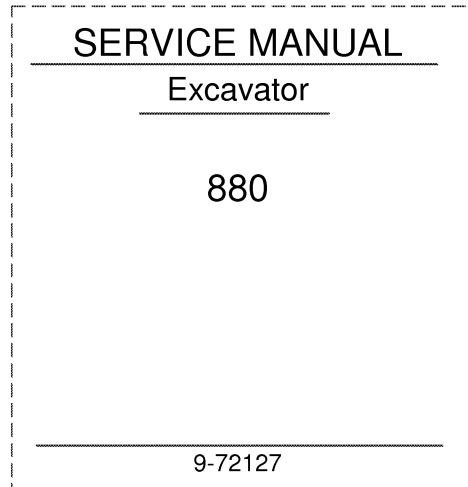


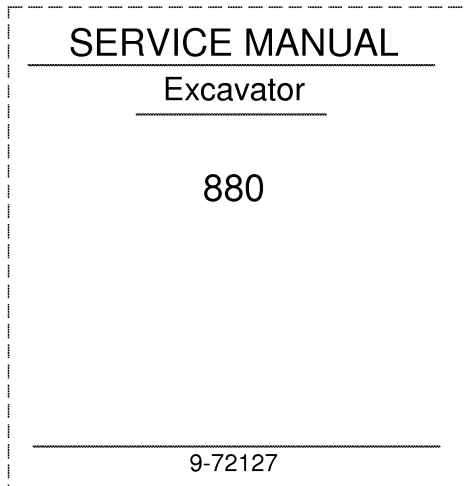
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



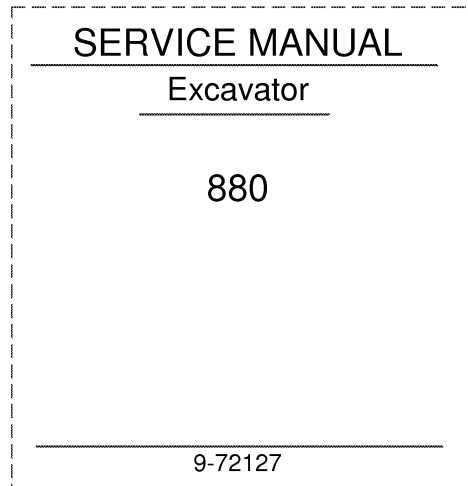
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

880 EXCAVATOR

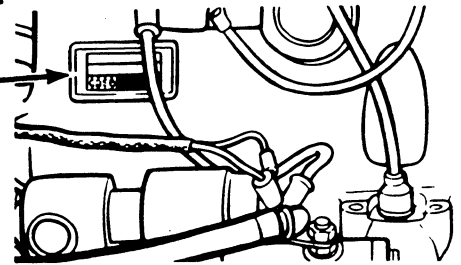
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Section 11

GENERAL ENGINE SPECIFICATIONS 880 EXCAVATOR

THE MODEL AND ENGINE SERIAL NUMBER IS STAMPED ON A PLATE LOCATED ON THE SIDE OF THE ENGINE ABOVE THE CRANKING MOTOR.



DIESEL ENGINES

General

Type	4 Cylinder, 4 Stroke Cycle, Valve-in-Head Turbo-Charged
Firing Order	1-3-4-2
Bore	4-5/8 Inches
Stroke	5 Inches
Piston Displacement	336 Cubic Inches
Compression Ratio	16.5 to 1
No Load Governed Speed	2385 - 2415 RPM
Rated Engine Speed	2200 RPM
Engine Idling Speed	725 to 775 RPM
Exhaust Valve Rotators	Positive Type
*Valve Tappet Clearance (Exhaust)	(Hot) .020 Inch (Cold) .025 Inch
(Intake)	(Hot and Cold) .015 Inch

*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	3
Number of Compression Rings	2
Number of Oil Rings	1
Type Pins	Full Floating Type
Type Bearing	Replaceable Precision, Steel Back, Copper-Lead Alloy Liners

Main Bearings

Number of Bearings	5
Type Bearings	Replaceable Precision Steel Back, Copper-Lead Alloy Liners

Engine Lubricating System

Crankcase Capacity	10 Quarts
with Filter Change	11 Quarts
Oil Pressure	45 to 55 Pounds with Engine Warm and Operating at Rated Engine Speed
Type System	Pressure and Spray Circulation
Oil Pump	Gear Type
Oil Filter	Full Flow Spin on Type

Fuel System

Fuel Injection Pump	Robert Bosch, Type PES Multiple Plunger
Pump Timing	30 Degrees Before Top Dead Center (Port Closing)
Fuel Injectors	Pencil Type (Opening Pressure 2800 PSI)
Fuel Transfer Pump	Plunger Type, Integral Part of Injection Pump
Governor	Variable Speed, Fly-Weight Centrifugal Type, Integral Part of Injection Pump
1st Stage Fuel Filter	Full Flow Spin on Type
2nd Stage Fuel Filter	Full Flow Spin on Type

SECTION
13
SCHEDULED
MAINTENANCE
AND
LUBRICATION GUIDES

General Maintenance of Component Parts and Hydraulic System with Lubrication Guides, Charts and Photographs.

LUBRICANTS and FLUIDS CHART

LUBRICATION POINTS	CAPACITY	RECOMMENDED LUBRICANT
ENGINE CRANKCASE	10 U.S. qts. 8 Imp. qts.	Engine oil meeting following specifications: Service DS; Series 3 & MIL-L-45199
ENGINE CRANKCASE (W/FILTER CHANGE)	11 U.S. qts. 9 Imp. qts.	Above 32° F..... SAE 30 10°-50°..... SAE 20W Below 32°..... SAE 10W
SEE NOTE BELOW		
COMPLETE HYDRAULIC SYSTEM	33 Gals.	Case TCH Fluid or as Alternate: SAE 10W - 0°F, to 180°F, system temperature; SAE 20 - 20W 50°F, to 210°F, system temperature. Arctic Conditions - SAE 5W or 5W-20.
HYDRAULIC TANK	18.0 Gals.	
FUEL TANK	75 Gals.	No. 2 diesel fuel
DRIVE TRANSMISSION	4 quarts	SAE 90, API-GL4
SWING GEARBOX	11 pints	SAE 90, API-GL4
PRESSURE FITTINGS		Multipurpose # 1 Lithium "Soap Base" Grease - below 32° F. Multipurpose # 2 Lithium "Soap Base" Grease - above 32° F.

ENGINE COOLANT

9.5 U.S. gals.
7.6 Imp. gals.

1/2 high boiling point permanent (ethylene glycol) type antifreeze, 1/2 water (protects to -34° F.)

NOTE: It is extremely important that a stable, high quality Engine lubricating oil be selected for use in the Case Diesel Engine. It is also extremely important that the correct weight (SAE Viscosity Rating) of oil be selected for the prevailing air temperature. This assures you that the oil will remain fluid or free flowing within the specified temperature ranges.

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