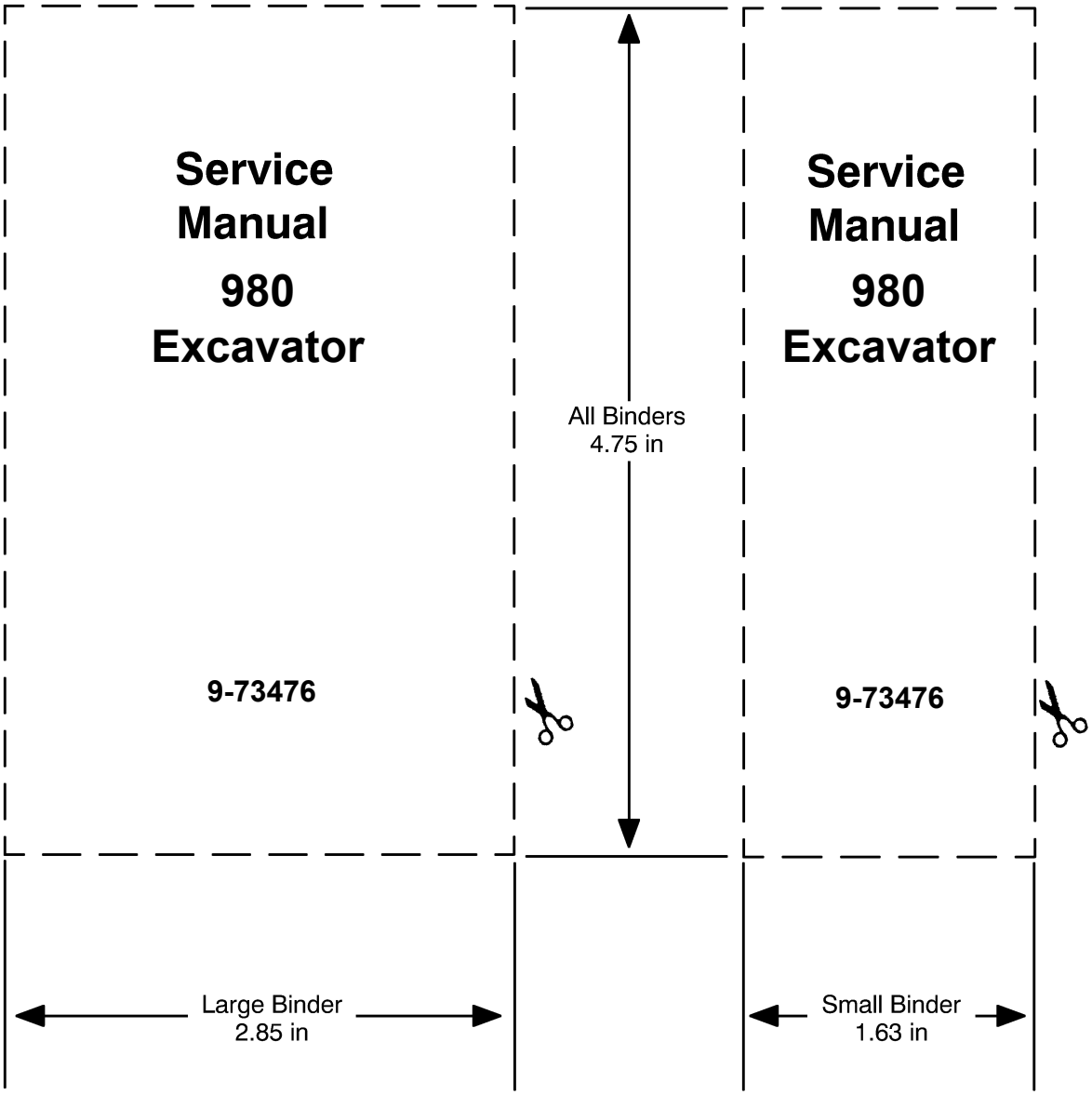
Service
Manual
980
Excavator
9-73476
All Binders
4.75 in
Service
Manual
980
Excavator
9-73476
Large Binder
2.85 in
Small Binder
1.63 in

980 EXCAVATOR

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C. E. Div. 9-73476
May 1977

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SECTION 10

GENERAL INFORMATION

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ENGINE SPECIFICATIONS

GENERAL

Make and Model	Case 504BDT
Type	.6 cylinder, 4 stroke cycle, valve-in-lead turbo charged
Horsepower	
Maximum Gross (See Note 1)	165 H.P. @ 2200 RPM
*SAE net flywheel (See Note 2)	150 H.P. @ 2200 RPM
Bore and Stroke	4-5/8" (117.5 mm) x 5" (127 mm)
Piston Displacement	504 cubic inches (8.26 liters)
Firing Order	1-5-3-6-2-4
Compression Ratio	15.8 to 1
Engine Speeds	
No load governed speed	2330-2370 RPM
Full load rated	2200 RPM
Engine idling speed	750-800 RPM
Exhaust Valve Rotators	Positive Type
Torque, Pounds-Feet, SAE	445 @ 1500 RPM
*Valve Tappet Clearance (Exhaust) (Hot)	.020" (0.508 mm)
(Cold)	.025" (0.635 mm)
(Intake) (Hot & Cold)	.015" (0.381 mm)

*Hot Settings are made after the engine has operated at thermostat controlled temperatures

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 or Aluminum Alloy Liners

MAIN BEARINGS

Number of Bearings	7
Type of Bearings	Replaceable Precision Steel back, Copper-Lead or Aluminum Alloy Liners

ENGINE LUBRICATING SYSTEM

Crankcase Capacity (W/O Filter Change)	15 Quarts
With Filter Change	17 Quarts
Oil Pressure	45 to 60 PSI 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

Pump Timing	30^{o} BTC Static
Recommended Fuel	No. 2 Diesel
Fuel Pressure @ Injection Pump	25 PSI (1.75 Kg/cm^2)
Nozzel Opening Pressure	3150 to 3250 PSI
Fuel Tank	75 gals (283.87L)
Radiator Pressure Cap	7 P.S.I.(.49 Kg/cm^2)
Engine Oil Pressure	45 to 60 PSI (3.16 kg/cm2 to 3.87 Kgs/cm^2)

NOTE1

Manufacturer's rating of maximum engine horsepower at flywheel without accessories. Fuel set at maximum quantity for this application.

NOTE2

SAE net flywheel horsepower of engine as applied to this vehicle when equipped with all accessories.

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