

White Farm Equipment Company

Service Bulletin

Location Charles City
 Subject 1465 and 1470 Tractor Specifications
 Number 430 605
 Date 11-13-73
 File A General Information

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This bulletin contains service specifications for 1465 and 1470 tractors. All components of tractors are not covered in this publication. A more complete bulletin will be issued in near future.

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Service Department

JB:hr



PARTS REPLACEMENT OR REPAIR AT COMPANY EXPENSE IS NOT AUTHORIZED UNLESS SUCH POLICY IS STATED.

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ENGINE SPECIFICATIONS

GENERAL

Engine Serial Number Location	Near front of block on left side of engine
Weight of Engine (lbs)	1080
Number of Cylinders	4
Firing Order	1-3-4-2
Bore	4.33
Stroke	4.724
Total Piston Displacement (cu. in.)	278.3
Engine Speed (rpm)	
Low Idle	650-680
Rated	2100
High No Load	2300
Compression Ratio	17:1
Engine Operating Temperature	167-221° F.
PTO Horsepower	70

LUBRICATION

Type	Pressure
Oil Filter Type	Full-Flow, cartridge
Recommended Oil	Refer to Operator's Manual
Oil Pressure @ Engine Operating Temperature	
@ Minimum Pump Speed (psi)	42, 7-49, 8
@ Maximum Pump Speed (psi)	71
Oil Change Period	200 hrs.
Filter Element Change Period	Every other oil change
Crankcase Capacity - Without Filter	12-1/4 qts.
- With Filter	13-1/4 qts.

CAMSHAFT

Type of Drive	Gear driven
Journal Diameters	1, 947-1, 948

CAMSHAFT BORES

Type	No bushings used - bores machined in crankcase
Bore	1, 951-1, 952
Running Clearance	0, 0032-0, 0055

CONNECTING RODS

Diameter of Piston Pin Bushing Bore	1, 5758-1, 5762
Diameter of Rod Bearing Bore	2, 9024-2, 9030
Weight Variation between Any Two Rods (max. ozs.)	0, 5 oz.
Number of Connecting Rod Bolts	2

CONNECTING ROD BEARINGS

Type	Replaceable shell, precision bearings
Manner of Adjustment	None
Running Clearance	0.0022-0.00405

CRANKSHAFT

Type	Integral counterweight balanced
Material	Cast steel
End Play Controlled by	Thrust washers
End Play	0.0027-0.0106
Number of Main Bearings	5
Main Bearing Journal Diameter	3.0000-3.0007
Connecting Rod Journal Diameter	2.7504-2.7511
Maximum Journal Out-of-Round	0.0004
Maximum Journal Taper	0.0006
Maximum Allowable Shaft Misalignment	0.001
Flywheel Mounting Flange Runout	0.001
Main Bearing Journal Length	
1 and 6	1.6632-1.6734
2, 3 and 4	1.2695-1.2697

CRANKSHAFT MAIN BEARINGS

Type	Replaceable shell, precision bearings
Manner of Adjustment	None
Running Clearance	0.002-0.004
Crankcase Bore	3.1742-3.1750

CYLINDER HEAD

Type	Overhead valve
Construction	One piece
Number of Cap Screws	14
Valve Port Diameters	
Intake	1.531-1.539
Exhaust	1.295-1.303
Valve Seat Angle - Intake and Exhaust	45°

OIL PUMP

End Clearance between Gears and Pump Body	0.002-0.005
Radial Clearance of Gears in Pump Body	0.008-0.013
Normal Gear Backlash Limits	0.006-0.008
Oil Pressure Valve Springs	
Free Length	2.744-2.807
Test Length 24.2 lb. Load	1.909

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PISTONS

Material	Aluminum alloy
Maximum Diameter of Standard Piston (Measured 1.181 inches from bottom of piston and 90° from pin axis)	4.3249-4.3257
Clearance between Piston and Sleeve	0.00492-0.00657
Piston Pin Bore Diameter	1.5748-1.5752

Install pistons so that corresponding cylinder number stamped on both piston and connecting rod is on side opposite to that of timing camshaft.

PISTON PIN

Diameter	1.5750-1.5754
Fit in Piston	0.0002L-0.0006T
Clearance in Rod	0.0004-0.0011

PISTON PIN BUSHING

Inside Diameter	1.5758-1.5762
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PISTON RINGS

Compression Rings	2
Oil Rings	1 - stepped scraper 1 - backbone type, spring loaded scraper

ROCKER ARMS

Running Clearance	0.0002-0.0022
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ROCKER ARM SHAFT

Diameter	0.8274-0.8282
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SLEEVES

Type	Wet
Material	Cast iron
Bore	4.3307-4.3316
Crankcase Sleeve Bore	4.6457-4.6471
Sleeve Outer Diameter	4.6425-4.6444

VALVES

Stem Diameter	0.3127-0.3133
Running Clearance in Guides	0.0012-0.0026