

Information and Instructions

This individual shop manual is one unit of a series on wheel type tractors. Contained in it are the necessary specifications and the brief but terse procedural data needed by a mechanic when repairing a tractor on which he has had no previous actual experience.

The material is arranged in a systematic order beginning with an index which is followed immediately by a Table of Condensed Service Specifications. These specifications include dimensions, fits, clearances and timing instructions. Next in order of arrangement is the procedures paragraphs.

In the procedures paragraphs, the order of presentation starts with the front axle system and steering and proceeding toward the rear axle. The last paragraphs are devoted to the power take-off and power lift systems. Interpersed where needed are additional tabular specifications pertaining to wear limits, torquing, etc.

HOW TO USE THE INDEX

Suppose you want to know the procedure for R&R (remove and reinstall) of the engine camshaft. Your first step is to look in the index under the main heading of ENGINE until you find the entry "Camshaft." Now read to the right where under the column covering the tractor you are repairing, you will find a number which indicates the beginning paragraph pertaining to the camshaft. To locate this wanted paragraph in the manual, turn the pages until the running index appearing on the top outside corner of each page contains the number you are seeking. In this paragraph you will find the information concerning the removal of the camshaft.

SHOP MANUAL

JOHN DEERE

SERIES

1010

2010

(Utility, Row Crop, Hi-Crop & Industrial)

Tractor serial number located on rear of transmission case
 Engine serial number located on front right side of engine block

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CONDENSED SERVICE DATA

GENERAL

	Series 1010	Series 2010
Engine Make	Own	Own
Number Cylinders	4	4
Bore—Inches		
Non-Diesel	3½	3¾
Diesel	3¾	3¾
Stroke—Inches		
Non-Diesel	3	3½
Diesel	3½	3½
Displacement—Cubic Inches		
Non-Diesel	115.5	145
Diesel	144.5	165
Compression Ratio		
Gasoline	7.9:1	7.6:1
LP-Gas	8.9:1
Diesel	19:1	19:1
Pistons Removed From?	Above	Above
Main Bearings, Number of		
Non-Diesel	3	3
Diesel	5	5
Forward Speeds	5	8
Carburetor Make	M-S	M-S
Carburetor Model (gas)	TSX-809	TSX-810
Carburetor Model (LP-Gas)	TSG-9
Distributor	AL-1BT 4101L DR 1112577 Wico X30091	AL-1BT 4101L DR 1112577 Wico X30091
Generator	DR 1100399	DR 1100399
Starter		
Non-Diesel	DR 1107879	DR 1107879
Diesel	DR 1108672	DR 1108672
Injection Pump	Roosa	Roosa
Injectors	—American Bosch—	

TUNE-UP

Compression at Cranking Speed		
Gasoline	125 psi	125 psi
LP-Gas	180 psi
Diesel	350 psi	350 psi
Tappet Gap—Inlet	0.012 C	0.012 C
Tappet Gap—Exh.	0.018 C	0.018 C
Inlet Valve Face Angle		
Non-Diesel	29°	29°
Diesel	44°	44°
Exhaust Valve Face Angle		
Non-Diesel	44°	44°
Diesel	44°	44°
Inlet Valve Seat Angle		
Non-Diesel	30°	30°
Diesel	45°	45°

Exhaust Valve Seat Angle		
Non-Diesel	45°	45°
Diesel	45°	45°
Timing Mark Location	Flywheel	Flywheel
Ignition Advance Timing, Deg.	26	26
Breaker Point Gap	0.022	0.022
Spark Plug Size	14mm	14mm
Electrode Gap		
Gasoline	0.015	0.015
LP-Gas	0.025	0.025
Engine High Idle—RPM	2100	2100
Engine—Loaded—RPM	1900	1900
Power Take-Off High		
Idle—RPM	578	590
Power Take-Off		
Loaded—RPM	524	534

SIZES—CAPACITIES—CLEARANCES

Crankshaft Journal Diameter..	2.9974-2.9984	
Crankpin Diameter	2.3085-2.3095	
Camshaft Journal Diameter...	1.8095-1.8105	
Piston Pin Diameter	1.1877-1.1879	
Valve Stem Diameter	0.341-0.342	
Main Bearing Diametral Clearance	0.0016-0.0046	
Rod Bearing Diametral Clearance	0.0014-0.004	
Camshaft Bearings Diametral Clearance	0.0015-0.0035	
Crankshaft End Play	0.004-0.008	
Camshaft End Play	0.003-0.007	
Piston Skirt Clearance		
Non-Diesel	0.002-0.004	
Diesel	0.0045-0.0065	
Cooling System—Gals.	2¾	3
Crankcase—Qts.	5	5
Fuel Tank—Gals.	12	18
Transmission and Differential—Qts.	9**	32*
Hydraulic System—Qts.	4½	...

*Includes Hydraulic System
**Except Row Crop Utility; Model RU, 12 qts.: Add 1 qt. if equipped w/540 rpm PTO

TIGHTENING TORQUES—FT.-LBS.

Cylinder Head	125	125
Main Bearings	145	145
Rod Bearings	40-45	40-45
Rocker Arm Assembly	30	30
Flywheel	70-75	70-75