

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 4030, 4230, 4430 & 4630
Tractor serial number located on rear of transmission case. Engine serial number located on front right side of engine block.

INDEX (By Starting Paragraph)

	4030	4230	4430	4630
BRAKES	244	244	244	244
CARBURETOR	85	85	.....	.....
CLUTCH				
Engine clutch (Perma-Clutch)	160	160	160	160
Torsional Damper (Power Shift)	205	205	205	205
Pto Clutch (Perma-Clutch)	161	161	161	161
COOLING SYSTEM				
Radiator	135	135	135	135
Water Pump	136	136	136	136
Thermostat	138	138	138	138
DIESEL SYSTEM				
Bleeding	91	91	91	91
Filters	90	90	90	90
Injection Nozzles	94	94	94	94
Injection Pump	115	115	119	119
Timing	116	116	120	120
DIFFERENTIAL	222	222	222	222
DIFFERENTIAL LOCK	226	226	226	226
ELECTRICAL SYSTEM				
Alternator	141	141	141	141
Ignition System	145	145	.....	.....
Power Front Wheel Drive	34	34	34	34
Starting Motor	142	142	142	142
ENGINE				
Assembly R&R	45	45	45	45
Camshaft	58	58	58	58
Connecting Rods & Bearings	64	64	64	64
Crankshaft	65	65	65	65
Cylinder Head	46	47	48	48
Flywheel	67	67	67	67
Oil Pan	69	69	69	69
Pistons, Pins & Sleeves	60	60	60	60
Tappet Adjustment	51	51	51	51
Throttle Linkage (gasoline)	124	124	.....	.....
Diesel Models	125	125	125	125
Timing Gears	57	57	57	57
Valves	50	50	50	50
FINAL DRIVE				
Planetary	231	231	231	231
Hi-Crop	232	232	232	.....
FRONT SYSTEM	1	1	1	5
FRONT WHEEL DRIVE	30	30	30	30
GOVERNOR				
Gasoline Engine Governor	128	131	.....	.....
HYDRAULIC SYSTEM	272	272	272	272
POWER TAKE-OFF	249	249	249	249
STEERING SYSTEM				
Early Type	11	11	11	12
Later Type	20	20	20	20
TRANSMISSION				
Power Shift	195	195	195	195
Syncro Range	180	180	180	180
Quad-Range	192	192	192	192
Creeper	173	173	173	.....
TURBOCHARGER .....	.....	.....	77	77