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. Interspersed 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

MODELS 50 - 60 - 70 (Gasoline, All-Fuel & LP-Gas)

IDENTIFICATION

Tractor serial number stamped on plate on right side of main case.

INDEX (By Starting Paragraph)

	Model 50	Model 60	Model 70		Model 50	Model 60	Model 70	
BELT PULLEY	120	120	120	FRONT SYSTEM (Tricycle)				
BRAKES	150	150	150	Pedestal	. 1	1	1	
			1757	"Roll-O-Matic"	4	4	4	
CARBURETOR (Not LP-Gas)	68	68	68	Vertical spindle	. 1	1	1	
CARBURETOR (LP-Gas)	87	83, 87	83, 87	FRONT SYSTEM (Axle)				
COOLING SYSTEM				Axle pivot pins		7	7	
Fan & shaft	107	107	107			6	6	
Radiator		105	106	Pedestal		_		
Thermostat		109	109	Vertical spindle		5	5	
Water pump		111	111		8	8	8	
	***	111	111	GOVERNOR				
DIFFERENTIAL				Adjust		100	100	
Overhaul	142	144	144	Overhaul		101	101	
Remove & reinstall	141	143	143	Reclaiming case	104	104	104	
ENGINE				"POWR-TROL"				
Cam followers	48	48	49	Bleeding	180	180	180	
Camshaft & bearings	45	46	47	Check valves	187	187	187	
Connecting rods & bearings	53	53	53	Operating valve	190	190	190	
Crankcase cover	61	61	61	Pressure test	186	186	186	
Crankshaft	58	58	58	Pump		182	182	
Cylinder block	54	54	54	Remote cylinder	194	194	194	
Cylinder head	30	30	31	Rockshaft & cylinder		192	192	
Flywheel	59	59	59	Trouble shooting	181	181	181	
Ignition timing	113	113	113	Valve housing	191	191	191	
Main bearings	55	55	55	PTO (Non-Continuous)				
Manifold	67	67	67	Bevel gears	161	161	161	
Oil filter	63	63	63	Output shaft & seal	160	160	160	
Oil pressure	62	62A	62.A	PTO (Continuous)				
Oil pump	65	65	65	Adjust clutch	165	165	165	
Pistons & rings	51	51	51	Clutch overhaul	167	167	167	
Piston pins	52	52	52	Bevel gears	169	169	169	
Piston & rod removal	50	50	50	Oil pump	168	168	168	
Oil seal (left hand)	57	57	57	Output shaft & seal	167	167	0.000	
Oil seal (right hand)	56	56	56				167	
Rocker arms	38	38	38	REAR AXLE	147	147	147	
Timing gears	40	40	40	STEERING GEAR				
Valves & seats	32	32	32	Manual	9	9	9	
Valve guides & springs	36	36	36	Power	16	16	16	
Valve rotators	35	35	35	TRANSMISSION				
Valve timing	39	39	39	Countershaft	128	135	140A	
	33	33	33	Drive shaft	127	134	140	
FINAL DRIVE				Reduction gear cover	123	130	136	11
Axle shafts	147	147	147	Shifters & shafts	125	132	138	
Bull gears—R&R	147	147	147	Sliding gear shaft	126	133	139	
Bull pinions—R&R	142	144	144	Top cover	124	131	137	