

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.

INDEX (By Starting Paragraph)

BELT PULLEY	337	ENGINE: (cont.)	
BRAKES	308	Timing Gear Cover	77
CARBURETOR, GASOLINE	106	Timing Gears	81
CARBURETOR, LP-GAS	117	Valve Adjustment	72
CLUTCH, SINGLE DISC	184	Valves & Seats	70
CLUTCH, DUAL DISC	185	Valve Guides & Springs	71
CLUTCH, POWER TAKE-OFF	332	FINAL DRIVE GEARS	307
COOLING SYSTEM:		FRONT AXLE	1, 24, 46
Radiator	169	GOVERNOR (non-Diesel)	164
Thermostat	168	HYDRAULIC LIFT SYSTEM:	
Water Pump	170	Adjustments	344
DIESEL FUEL SYSTEM:		Lift Cover Assembly, R&R	347
Bleeding	129, 131	Lift Cylinder, Overhaul	349
Filters	128	Pump (Piston Type)	360
Injection Pump	151, 155	Pump (Gear Type)	366
Injector Nozzles	132	Remote Control Valves	370
Troubleshooting	120	Selector Valve	368
DIFFERENTIAL	284, 300	Troubleshooting	342
DIFFERENTIAL LOCK	290, 304	IGNITION SYSTEM	174
ELECTRICAL SYSTEM:		LP-GAS SYSTEM	107
Generator & Regulator	171	POWER STEERING:	
Ignition Distributor	175	Bleed System	10, 37, 54
Starting Motor	172, 173	Control Valve	13, 40
ENGINE:		Pump	12
Assembly, R&R	66	Steering Gear	13, 28, 34, 58
Camshaft	87	System Pressure	11, 38
Connecting Rod Bearings	95	POWER TAKE-OFF	316, 324, 326
Crankshaft & Bearings	96	REAR AXLE:	
Crankshaft Oil Seals	97	Axle Housings	298, 307
Cylinder Head	68	Bearing Adjustment	294, 307
Cylinders	91	Shaft, Remove & Reinstall	295, 306
Flywheel, R&R	100	STEERING (Manual)	5, 28
Oil Pan	101	TRANSMISSION (By Type):	
Oil Pump	103	Auxiliary	186
Pistons & Rings	89	Four-Speed	193
Piston & Rod Removal	88	Six-Speed	201
Piston Pins	94	Eight-Speed	210
Rocker Arms	76	Select-O-Speed	219

CONDENSED SERVICE DATA

	TRACTOR SERIES (Before 7/20/68)			TRACTOR SERIES (After 7/19/68)		
	2000	3000	4000	2000	3000	4000
General						
Engine Make	Own	Own	Own	Own	Own	Own
No. of Cylinders	3	3	3	3	3	3
Bore—Inches, Non-Diesel	4.2	4.2	4.4	4.2	4.2	4.4
Diesel	4.2	4.2	4.4	4.2	4.2	4.4
Stroke—Inches, Non-Diesel	3.8	3.8	4.2	3.8	3.8	4.4
Diesel	3.8	4.2	4.4	3.8	4.2	4.4
Displacement—Cubic Inches,						
Non-Diesel	158	158	192	158	158	201
Diesel	158	175	201	158	175	201
Compression Ratio, Non-Diesel	8.0:1	8.0:1	8.01:1	7.8:1	7.8:1	7.8:1
Diesel	16.5:1	16.5:1	16.5:1	16.5:1	16.5:1	16.5:1