

# 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

# MASSEY-FERGUSON

**MODELS**  
**MF255 — MF265 — MF270 — MF275 — MF290**

**Tractor serial number is stamped on a name plate attached to the instrument console.**  
**Engine serial number is stamped on the side of engine cylinder block.**

## INDEX (By Starting Paragraph)

	MF255	MF265	MF270	MF275	MF290		MF255	MF265	MF270	MF275	MF290
<b>BRAKES</b>						<b>ENGINE (CONT.)</b>					
Adjustment . . . . .	190	190	191	190	191	Engine Balancer . . . . .	34	34	....	....	....
Bleeding . . . . .	....	....	192	....	192	Oil Pump . . . . .	40	40	....	....	....
Brake Discs . . . . .	193	193	193	193	193	Pistons, Sleeves & Rings	30	30	....	....	....
Master Cylinders . . . . .	....	....	195	....	195	Timing Gear . . . . .	19	19	....	....	....
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<b>CLUTCH (Engine)</b>						<b>FUEL SYSTEM (Diesel)</b>					
Adjustment . . . . .	147	147	147	147	147	Fuel Filter & Bleeding . .	114	114	114	114	114
Dual Clutch . . . . .	149	149	149	149	149	Fuel Lift Pump . . . . .	116	116	116	116	116
Split Torque Clutch . . . .	152	152	152	152	152	Injector Nozzles . . . . .	117	117	117	117	117
Tractor Split . . . . .	148	148	148	148	148	Injection Pump . . . . .	125	125	125	125	125
<b>COOLING SYSTEM</b>						<b>FUEL SYSTEM (Gasoline)</b>					
Radiator . . . . .	130	130	130	130	130	Carburetor . . . . .	110	110	....	....	....
Thermostat . . . . .	131	131	131	131	131	<b>HYDRAULIC SYSTEM</b>					
Water Pump . . . . .	132	132	132	132	132	Auxiliary Hydraulic					
<b>DIFFERENTIAL AND</b>						Pump . . . . .	230	230	230	230	230
<b>BEVEL DRIVE GEARS</b>						Auxiliary Valve . . . . .	235	235	235	235	23
Bevel Drive Gears . . . . .	182	182	182	182	182	Checks & Adjustments . .	212	212	212	212	212
Differential . . . . .	177	177	177	177	177	Contol Quadrant . . . . .	217	217	217	217	217
Differential Lock . . . . .	180	180	180	180	180	Hydraulic Lift Pump . . .	222	222	222	222	222
<b>ENGINE (AD4.203 Diesel)</b>						Hydraulic Testing . . . . .	240	240	240	240	240
Assembly, R&R . . . . .	42	....	....	....	....	Lift Cover . . . . .	215	215	215	215	215
Camshaft . . . . .	59	....	....	....	....	Reservoir & Filter . . . .	210	210	210	210	210
Connecting Rods &						Selector Valve . . . . .	....	....	220	....	220
Bearings . . . . .	63	....	....	....	....	Trouble-Shooting . . . . .	211	211	211	211	211
Crankshaft & Bearings . .	64	....	....	....	....	<b>IGNITION AND</b>					
Cylinder Head . . . . .	43	....	....	....	....	<b>ELECTRICAL SYSTEM</b>					
Oil Pump . . . . .	70	....	....	....	....	Alternator & Regulator . .	137	137	137	137	137
Pistons, Sleeves & Rings	61	....	....	....	....	Distributor . . . . .	135	135	....	....	....
Timing Gears . . . . .	52	....	....	....	....	Starting Motor . . . . .	144	144	144	144	144
<b>ENGINE (A4.236 &amp;</b>						Wiring Diagrams . . . . .	245	245	245	245	245
<b>A4.248 Diesel)</b>						<b>POWER STEERING</b>					
Assembly, R&R . . . . .	75	75	75	75	75	Hydrostatic Hand Pump	8	8	8	8	8
Camshaft . . . . .	90	90	90	90	90	Lubrication & Bleeding . .	3	3	3	3	3
Connecting Rods &						Power Steering Pump . . .	5	5	5	5	5
Bearings . . . . .	95	95	95	95	95	Steering Cylinder . . . . .	10	10	10	10	10
Crankshaft & Bearings . .	96	96	96	96	96	<b>POWER TAKE-OFF</b>					
Cylinder Head . . . . .	76	76	76	76	76	(Independent) . . . . .	203	203	203	203	203
Engine Balancer . . . . .	99	99	99	99	99	<b>POWER TAKE-OFF</b>					
Oil Pump . . . . .	106	106	106	106	106	(Live) . . . . .	200	200	200	200	200
Pistons, Sleeves & Rings	93	93	93	93	93	<b>REAR AXLE AND</b>					
Timing Gears . . . . .	83	83	83	83	83	<b>FINAL DRIVE</b>					
<b>ENGINE (AG4.212 &amp;</b>						Final Drive & Axle					
<b>AG4.236 Gasoline)</b>						Housing . . . . .	188	188	188	188	188
Assembly, R&R . . . . .	11	11	....	....	....	Wheel Axle & Planetary	185	185	185	185	185
Camshaft . . . . .	26	26	....	....	....	<b>TRANSMISSION</b>					
Connect Rods &						Eight Speed . . . . .	159	159	159	159	159
Bearings . . . . .	32	32	....	....	....	Multi-Power . . . . .	167	167	167	167	167
Crankshaft & Bearings . .	33	33	....	....	....	Removal . . . . .	157	157	157	157	157
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