Information and Instructions

This shop manual contains several sections each covering a specific group of wheel type tractors. The Tab Index on the preceding page can be used to locate the section pertaining to each group of tractors. Each section contains 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.

Within each section, 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

MODEL MF 65

Tractor serial number stamped on instrument panel name plate.

Engine serial number stamped on side of engine.

•	
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Starting motor	Planetary gear assembly154
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NON-DIESEL ENGINE	FRONT AXLE Axle main member
Assembly R&R	Axle pivot pin and bushing
Cam followers 28	Dual wheels and spindle
Camshaft 33	Steering spindles
Connecting rods and bearings	Single wheel and fork 4
Crankshaft and bearings	Tie rods and/or drag links 3
Cylinder head	Toe-in 3
Cylinder sleeves 35 Flywheel 40	COVERNOR NON DIESEI
Front oil seal	GOVERNOR, NON-DIESEL Adjustment, major
Ignition timing	Adjustment, minor
Main bearings	R&R and overhaul
	and 0.0111441.,

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GENERAL	NON-DIESEL	DIE	SEL	TUNE-UP (Cont.)	NON-DIESEL	Di	ESEL
Engine Make Engine Model No. Cylinders Bore—Inches Stroke—Inches Displacement—Cubic Inches Compression Ratio, Gasoline Compression Ratio, Diesel Pistons Removed From?	G176 4 3.58 4.38 176 7.1:1 8.1:1	Perkins 4A-203 4 3.6 5.0 203.5 17.4:1 Above	Perkins AD4-203 4 3.6 5.0 203.5 18.5:1 Above	Injection Pump Timing Injector Nozzle Make Engine Low Idle Rpm Engine Load Rpm Engine High Idle Rpm Pto Load Rpm Pto No Load Rpm *Loaded rpm 636; no-load Power" transmission.	450 2000 2150 720* 774* rpm 684, if	18°BTC C.A.V. 500 2000 2200 720 792 equipped	24°BTC C.A.V. 600 2000 2175 636 691 with "Multi-
Main Bearings, Number of?.		Above 5	5	SIZES—CAPACITIES—CLEARA	NCES		
Cylinder Sleeves	Wet 6* 2* D-R	Dry 6 2 D-R	Dry 12 4 D-R ower" trans-	(Clearances in thousandths) Crankshaft Journal Diameter Crankpin Diameter Camshaft Journal Diameter: Front Center Rear	2.06 2 1.937 1.750	2.749 2.249 1.870 1.860 1.840	2.749 2.249 1.870 1.860 1.840
TUNE-UP				Piston Pin Diameter Piston Ring Width:		1.250	1.250
Firing Order		1-3-4-2	1-3-4-2	Compression		0.093 0.250	0.093 0.250
Gap (Hot) Exhaust Valve Tappet Gap (Hot)		0.010	0.010	Main Bearing, Diameter Clearance Rod Bearing, Diameter	0.5-2.7	2.5-4.5	3.0-5.0
Inlet Valve Face Angle Inlet Valve Seat Angle Exhaust Valve Face Angle	30°	44° 45° 44°	44° 45° 44°	Clearance	0.7-2.7 4-8	2-3.5 2-10	2.5-4.0 2-14
Exhaust Valve Seat Angle Ignition Distributor Model Breaker Contact Gap	45° 1112583	45°	45° 	Clearance	3-7	4-8 3-6 10	4-8 3-6 10
Plug Electrode Gap Carburetor, Gasoline Carburetor, LP-Gas	M-S, TSX695	,		Crankcase Oil—Quarts Transmission, Differential and Hydraulic Lift—Gallons		6 8	7 8
Float Setting, M-S	1/4-inch	C.A.V. DPA	C.A.V. DPA	Power Steering Reservoir— Quarts Steering Gear Housing—Pint	² / ₃ 2	13/3	13/3

MASSEY-FERGUSON

MODELS MF85-MF88-MF Super 90-MF Super 90 WR

Tractor serial number stamped on name plate on right side of battery box. Engine serial number stamped on engine name plate or on side of block.

1	/IF85-MF88	MF Super 90 MF Super 90WR	M	IF85-MF88	MF Super 90 MF Super 90WR
BELT PULLEY	177	177	ENGINE (Diesel) Cont.		
BRAKES			Flywheel	72A	110
Adjustment	175	175	Injection timing	78A	124
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			Oil pump	73	111
CARBURETOR (Gasoline)	36	36	Pistons and rings	66	101
CARBURETOR (LP-Gas)	. 42	42	Piston pins	67	102
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(Multipower Clutch)		148	Timing gears	63	93
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	100	100	Valves & seats	56	86
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COOLING SYSTEM (Diesel)			Bevel Gears	166	166
Radiator		129	Bull gear & pinion	171	171
Water Pump	80	128	Planetary final drive	172	174
DIESEL FUEL SYSTEM					
Bleeding		115	FRONT SYSTEM	_	_
Fuel Filters	76	114	Axle main member	1	1
Injector Nozzles			Dual wheel tricycle	5	5
Overhaul		123	Steering spindles	2	2
Remove & Reinstall		117	Single wheel and fork	4	4 3
Testing	. 77	116	Tie rods and toe in	3	-
Remove & Reinstall		125	GOVERNOR (Non-Diesel)	44	44
Timing		124			
Pre-combustion chambers	79		HYDRAULIC LIFT SYSTEM		
DIFFERENTIAL	166	166	Adjustment	188	188
			Control frame	198	198
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ELECTRICAL SYSTEM (Diesel)	82	130	Pump	191	191
ENGINE (Non-Diesel)			Rockshaft and cylinder	195	195 200
Camshaft	26	26	Remote cylinder	200 199	199
Connecting rods and bearings		30	Remote valve	155	155
Crankshaft and bearings		31	IGNITION SYSTEM	50	50
Cylinder head		16	IGNITION STSTEM	00	00
Cylinder sleeves		28	LP-GAS SYSTEM		
Flywheel		33	Carburetor	42	42
Ignition Timing		51A	Fuel tank and lines	38	38
Main Bearings		31	Adjustment	37	37
Oil Pump		34	Vaporizer	40	40
Pistons & Rings	. 28	28	DOWED WAVE OFF		
Piston pins	. 29	29	POWER TAKE OFF	183	183
Relief valve		35	Clutch	185	185
Rear Oil Seal		32	Control valve Dump valve	182	182
Rocker arms		22	Output shaft	187	187
Timing gears		25	Trouble shooting	179	179
Valve guides		18	Trouble shooting	1.0	
Valves & seats		17	STEERING SYSTEM		
Vαlves springs	. 19	19	Control valve	10	10
ENGINE (Diesel)			Cylinders and pistons		11
Balancer assembly	. 68	105	Lower gear and housing	13	13
Camshaft		99	Pressure relief valve		8
Connecting rods and bearings	. 70	103	Pump		9
Crankshaft and bearings	. 71	104	Rear steering gear		14
Cylinder head	. 55	85	Trouble shooting	7	7
Cylinder sleeves		101	Worm shaft and upper gear	12	12

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Countershaft	144	144	Clutch	148
Input shaft	143	143	Control valve	149
Main shaft and gears	143	143	Countershaft	156
Planetary unit		146	Input shafts	153 155
PTO input shaft	141	141	Planetary unit	158
Remove and reinstall	138	138	Remove and reinstall	151
Reverse idler	145	145	Reverse idler	157
Top cover	139	139	Shifter rails and forks	154

GENERAL	MF85-I		MF Sup	per 90 er 90WR l Diesel	TUNE-UP (Cont.)		-MF88 el Diesel	MF Su	uper 90 per 90WR el Diesel
Engine Make	Cont'l.	Cont'l.	Cont'l.	Perkins	Carburetor Model				
Engine Model	E242	HD277	E242	4A 300	Gasoline (M-S)	TSX 644		TSX 644	
Number of Cylinders	4	4	4	4	LP-Gas (Zenith)				
Bore—Inches	37/8	4	37/8	41/2	Float Setting	1/4-In.		1/4-In.	
Stroke—Inches	5½	51/2	51/8	43/4	Engine Low Idle RPM	450	650	450	600
Displacement—Cu. In	242	276.5	242	302.2	Engine High Idle RPM	2200	2275	2200	2175
Compression Ratio	242	270.0	242	002.2	Engine Loaded RPM	2000	2000	2000	2000
Gasoline	7.31:1		7.31:1		PTO No Load RPM	804	830	804	795
			7.51.1		PTO Loaded RPM	731	731	731	731
LP-Gas				16:1	PIO Loaded NFM	751	731	701	701
Diesel		15.2:1		5	SIZES—CAPACITIES—CL	EADANCI	= C		
Main Bearings (Number)	3	3	3				-3		
Cylinder Sleeves (Type)	Wet	Wet	Wet	Dry	(Clearances in Thous	sandths)			
Generator & Starter		— Delco-	Domes		Crankshaft Journal				
(Mαke)		Deico-	nemy —		Diameter	2.624	2.873	2.624	2.999
Battery Terminal		.			Crankpin Diameter	2,248	2.498	2.248	2.749
Grounded	-	-	_	_	Camshaft Journal Diameter				
*MF Super 90 Diesel tracto	ors use two	12V ba	tteries con	nected in	Outboard Bearing	0.996	0.996	0.996	
parallel.					Front Bearing	1.996	1.996	1.996	2.057
TUNE-UP					Center Bearing	1.746	1.746	1.746	1.967
Firing Order	1-3-4-2	1-3-4-2	1-3-4-2	1-3-4-2	Rear Bearing	1.684	1.684	1.684	1.906
Inlet Valve Tappet					Piston Pin Diameter	1.109	1.250	1.109	1.4375
Gap (Hot)	0.016	0.014	0.016	0.010	Main Bearing (diametral	21200	1,200		
Exhaust Valve Tappet	0.000		*****		clearance)	0.5-2.7	1.5-3.5	0.5-2.7	3.0-5.5
Gap (Hot)	0.018	0.014	0.018	0.010	Rod Bearing (diametral	0.0 2.7	110 010	0.00	
Inlet Valve Face Angle	30°	44°	30°	44°	clearance)	1.4-2.4	1.3-3.8	1.4-2.4	2.8-4.5
Exhaust Valve Face	00		•		Piston Skirt Clearance	2.5-3.5	3.5	2.5-3.5	(See Text)
Angle	45°	44°	45°	44°	Crankshaft End Play	6-8	5-8	6-8	8.5-15.5
Inlet Valve Seat Angle	30°	45°	30°	45°	Camshaft Bearing (dia-	0-0	0-0	0-0	0.0-10.0
Exhaust Valve Seat	00	-10	00	10	metral clearance)	2.5-4	See Text	2.5-4	See Text
Angle	45°	45°	45°	45°	Camshaft End Play	6-9	5-9	6-9	4-16
Ignition Distributor	40	40	40	40	•	15	22	15	15
Make	XI or DB		DR		Cooling System—Qts	7	7	7	10½
		Roosa		C.A.V.	Crankcase Oil—Qts	,	,	,	1072
Injection Pump Make			* *		Transmission, Differential				
Ignition Timing (Static)		 20° BTC			Hydraulic Lift, Power	40	40	40	40
Injection Timing			0.000	16° BTC	Steering—Qts	46	46	46	46
Distributor Point Gap	0.022	• • • • • •	0.022	• • • • •	Final Drive Unit,				
Distributor Cam Angle			25°-34°		Each—Pts.	_			
Injector Nozzle Make		C.A.V.	• • • • •	C.A.V.	High Clearance	2	2	2	2
Nozzle Opening Pressure.		1900 psi		2500 psi	Standard Clearance	1	1	1	1
**Gasoline, 5° BTC. LPG, 4	1° BTC								

MASSEY-FERGUSON

MODELS MF1080 - MF1085

Tractor serial number stamped on instrument panel name plate. Engine serial number stamped on right hand side of engine block.

INDEX (By Starting Paragraph)

BRAKES	DIFFERENTIAL	ENGINE CONT.
Adjustment	DIFFERENCIAL LOCK	Rocker Arms19
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IPTO Clutch	Circuit Description65	FINAL DRIVE97
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Bleeding	Cylinder Head	STEERING SYSTEM 3
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Tank58	Oil Seals21, 38	Multipower Controls
Timing	Oil Pump	Rear Planetary Unit77
Trouble Shooting46	Pistons & Rings	Shaft & Gears

GENERAL Engine Make Engine Model	MF1080 Perkins A4.318	MF1085 Perkins A4.318
Number of Cylinders Bore, Inches (mm) Stroke, Inches (mm) Displacement, Cu. In. Compression Ratio Main Bearings, No. of Cylinder Sleeves	4 4.5(114.3) 5.0(127) 318 17.5:1 5 Dry	4 4.5(114.3) 5.0(127) 318 17.5:1 5 Dry
Forward Speeds	6 or 12 2 or 4	8 or 12 2 or 4
TUNE-UP Firing Order Valve Tappet Gap—	1-3-4-2	1-3-4-2
Cold—Inch (mm) Hot—Inch (mm) Valve Face Angle Valve Seat Angle	0.012(0.30) 0.010(0.25) 45° 45°	0.012(0.30) 0.010(0.25) 45° 45°
Injection Timing BTDC	28° BTDC Crankshaft Timing Marks.	20° STATIC

MASSEY FERGUSON

M O D E L S MF1100 - MF1130

Tractor serial number stamped on instrument panel name plate.

Engine serial number stamped on side of engine.

	DIESEL	GASOLINE	LP-GAS		DIESEL	GASOLINE	LP-GAS
BRAKES				FINAL DRIVE			
Adjustment & Bleeding	. 115	115	115	Differential & bevel gear	107	107	107
Brake valve	. 155	155	155	Differential lock valve	166	166	166
Overhaul	. 117	117	117	Overhaul	113	113	113
				Remove & reinstall	112	112	112
CLUTCH							
Adjustment	. 92	92	92	FRONT SYSTEM			
Overhaul	. 94	94	94	Axle	1	1	1
Tractor split	. 93	93	93		3	3	3
•				Steering gear	2	2	2
COOLING SYSTEM				The rods & toe in	4	4	2
Radiator	. 84	84	84				
Thermostat		85	85	FUEL SYSTEM			
Water pump		86	86	Carburetor		58	64
•				Converter			63
ELECTRICAL SYSTEM				Fuel filters & lines	65		62
Alternator & regulator	. 89	89	89	Fuel tank	81	81	62
Distributor		87	87	Injection pump	76		
Starting motor		91	91	Injector nozzles	68	• • •	
Starting motor	. 31	31	51	Turbocharger	79		
ENGINE				Governor	• • •	82	82
Assembly R&R	. 33	10	10				
Cam followers		17	17	HYDRAULIC SYSTEM			
Camshaft		21	21	Auxiliary valve (early)	183	183	183
Connecting rods & bearings		25	25	Auxiliary valve (late)	185	185	185
Crankshaft & bearings		26	26	Charging pump	147	147	147
Cylinder head		11	11	Brake valve	155	155	155
Engine adapter plate		27	27	Differential lock valve	166	166	166
Flywheel		28	28	Hydraulic lift (3 point)	167	167	167
Oil pan		29	29	Lubrication, tests & adjustment	126	126	126
Oil pump		30	30	Main pump	141	141	141
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Rocker arms		18	18	Regulating valve		150	150
		19	19	Seat hydraulics		161	161
Timing gear cover		20	20	Sensing linkage		182	182
		12	12	Transfer cap		181	181
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Clutch	. 121	121	121	Assembly R&R	95	95	95
Ground speed gears	. 124	124	124	Front Split	93	93	93
Housing & gears	. 119	119	119	Linkage adjustment	96	96	96
Output shaft	. 118	118	118	Multi-Power control valve	158	158	158
Shift linkage	. 123	123	123	Overhaul	. 97	97	97
Valve	. 158	158	158	Park lock	106	106	106
				Rear split	102	102	102
				Range transmission	103	103	103

GENERAL	MF1100 Gasoline & LP Gas	MF1100 Diesel	MF1130 Diesel	TUNE-UP (Cont'd.)	MF1100 Gasoline	MF1100	MF1130
Engine Make	Waukesha	Perkins	Perkins	Governed Speeds Engine	& LP Gas	Diesel	Diesel
Engine Model	F320-G	A6.354	AT6.354	Low Idle	750-800 rpm	800-8	50 rpm -
Number of Cylinders	6	6	6	High Idle	2450 rpm	240	0 rpm —
Bore—Inches	4 1/8	37/8	37⁄8	Loaded	2200 rpm	220	0 rpm
Stroke—Inches	4	5	5	1000 rpm PTO			
Displacement—Cu. In	320	354	354	High Idle	1225 rpm	120	0 rpm
Compression Ratio	8:1	16:1	16:1	Loaded	1100 rpm	— 110	0 rpm
Main Bearings, No. of	4	7	7	540 rpm PTO	•		•
Cylinder Sleeves	None	Dry	Dry	High Idle	661 rpm	654	l rpm —
Forward Speeds		6 or 12 -		Loaded	594 rpm	594	l rpm —
Reverse Speeds		— 2 or 4 —		Horsepower @ PTO Shaft	89*	93.5	120.5
				*Gasoline Tractor, Mfr's Rating—	Diesel Mod Nebraska T		ording To
				Hydraulic System			
TUNE-UP				Maximum Pressure		2550 psi	
Firing Order		1-5-3-6-2-4 -		Rated Delivery		20 gpm	
Valve Tappet Gap (Cold)							
Intake	0.012	0.012	0.012	SIZES—CAPACITIES—CLEARA	NCES		
Exhaust	0.022	0.012	0.012	(Clearances in Thousandths)			
Compression Pressure				Crankshaft Journal Diameter	2.625	2.999	2.999
@ Cranking Speed	45°	44°	44°	Crankpin Diameter	2.625	2.499	2.499
Valve Face Angle Valve Seat Angle	45°	44 45°	44 45°	Camshaft Journal Diameter			
	45	45	45	Front	1.750	1.997	1.997
Timing (Ign or Inj) Static	See Par. 87	22° BTC	28° BTC	2nd	1.749	1.987	1.987
High Idle	See Par. 87			3rd	1.749	1.977	1.977
Timing Location		Flywheel -		Rear	1.749	1.967	1.967
Battery		11/ 111101		Crankshaft Bearing Clearance			
Volts	12	12	12	Main Bearings	1.5-4.5	2.5-4.5	2.5-4.5
Capacity Amp/Hr	95	95*	95*	Crankpin	0.5-3.0	1.5-3.0	1.5-3.0
Ground Polarity	Negative	Negative	Negative	Crankshaft End Play	4.5-8.5	2-14	2-14
	_		_	Piston to Cylinder Clearance	3-4	7-10	7-10
*Each Battery—Two Batteries Us	sed, Connecte	ed in Paralle	el.	Camshaft Bearing Clearance			
Distributor Contact Gap	0.016			Front	1.5-3.0	2.5-4.5	2.5-4.5
Spark Plug Size	18mm	• • • • • •		Other Journals	2.0-3.5	2.5-5.5	2.5-5.5
Electrode Gap	0.025			Cooling System—Quarts	21	22	22
Injectors			• • • • •	Crankcase—Quarts	8	17	17
Opening Pressure	• • • • • •	2500 psi	2795 psi	Transmission, Differential and			
Spray Hole Dia	• • • • • •	0.011	0.011	Hydraulic Lift—Gal		_ 22 _	
							_

MASSEY FERGUSON

MODEL MF 1150

Tractor serial number stamped on instrument panel name plate.

Engine serial number stamped on side of engine.

BRAKES Accumulator Adjustment & Bleeding Brake valve Overhaul	91 - 88 - 92 - 90	FINAL DRIVE Differential & bevel gear Rear axle & final drive FRONT SYSTEM Axle	1
CLUTCH Adjustment Overhaul Tractor split	67 69 68	Steering gear Tie rods & toe-in FUEL SYSTEM Filters & lines	3 2 45
COOLING SYSTEM Radiator Thermostat Water pump	60 61 62	Fuel lift pump Injector nozzles Injection pump HYDRAULIC SYSTEM	47 48 56
ELECTRICAL SYSTEM Alternator Circuit Description Regulator Starting motor	63 66 64 65	Auxiliary valve Brake valve Charging pump Lift system Lubrication, testing & adjustment Main pump	127 120 136 100
ENGINE Assembly R&R Cam followers Camshaft Connecting rods & bearings Crankshaft & bearings Cylinder head Flywheel	11 17 31 35 36 12 38	Mulit-Power & IPTO valve Operation Priority valve Regulating valve Seat hydraulics Sensing linkage Transfer cap POWER TAKE-OFF	130 99 124 122 132 151
Flywheel housing Oil cooler Oil pan Oil pump Pistons, rings & sleeves Piston pins	39 43 40 41 33 34	Clutch Output housing & gears Output shaft Shift linkage Valve	94 93 98
Rear oil seal Rocker arms Timing gear cover Timing gears Valves	37 18 20 23 13	TRANSMISSION Assembly R&R Adjustment Overhaul Range transmission	$72 \\ 73$

MASSEY-FERGUSON

MF1105

MODELS MF1135

MF1155

Tractor serial number is stamped on instrument panel name plate. Engine serial number is stamped on side of engine.

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