

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

MASSEY-FERGUSON

MODELS
MF670 – MF690 – MF698

Tractor serial number is stamped on name plate attached to left side of instrument panel shroud. Engine serial number is stamped on left side of engine block.

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DUAL DIMENSIONS

This service manual provides specifications in both the U.S. Customary and Metric (SI) systems of measurement. The first specification is given in the measuring system perceived by us to be the preferred system when servicing a particular component, while the second specification (given in parenthesis) is the converted measurement. For instance, a specification of "0.28 mm (0.011 inch)" would indicate that we feel the preferred measurement, in this instance, is the metric system of measurement and the U.S. system equivalent of 0.28 mm is 0.011 inch.

CONDENSED SERVICE DATA

	MF-670	Models MF-690	MF-698
GENERAL			
Engine Make	Perkins	Perkins	Perkins
Engine Model	A4.236	A4.248	A4.3182
Number of Cylinders	4	4	4
Bore—			
mm	98.43	100.96	114
Inches	3.875	3.975	4.5
Stroke—			
mm	127	127	127
Inches	5.0	5.0	5.0
Displacement—			
Liters	3.86	4.06	5.21
Cubic Inches	236	248	318
Compression Ratio	16:1	16:1	16.7:1
Main Bearings, No. of	5	5	5
Cylinder Sleeves	Dry	Dry	Dry
Forward Speeds	12	12	12
Reverse Speeds	4	4	4