Massey Ferguson®

1533 / 1540
Compact Tractor

WORKSHOP SERVICE MANUAL
4283359M1

CONTENTS

Part Number 4283359M1 (English)

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Massey Ferguson®

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Compact Tractor

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01 - General Information

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GENERAL

INTRODUCTION

This service manual has been prepared with the latest service information available at the time of publication. Read the service manual carefully before doing any service on the machine. This manual is one of the most important tools available to the service technician.

Right-hand and left-hand, as used in this manual, is determined by facing the direction the machine will travel when in use.

The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible production changes, your machine can vary slightly. The Manufacturer reserves the right to redesign and change the machine as necessary without notification.

WARNING: Some pictures in this manual show the machine with shields or guards removed to allow for a better view of the subject of the picture. All shields and guards must be in position before operating the machine.

TO THE DEALERS

This manual was developed to provide the best possible information, technical support and service to the customer. Review the Table of Contents and basic layout to become familiar with locations of pertinent information such as maintenance table, specifications and etc.

REPLACEMENT PARTS

To receive efficient service, always remember to give the dealer the following information:

- Correct part description or part number.
- Model number of your machine.
- Serial number of your machine.

UNITS OF MEASUREMENT

Measurements are given in metric units followed by the equivalent in US units. Hardware sizes are given in millimeters for metric hardware and inches for U.S. hardware.

TABLE OF CONTENTS

A Table of Contents is in the front of this manual. The Table of Contents shows the divisions. The individual divisions also have a Table of Contents.

PAGE NUMBERS

All page numbers are made of two numbers separated by a dash, such as 01-25. The number before the dash is the division number. The number following the dash is the page number in that division. Page numbers will be at the lower right or left of each page.

TRACTOR IDENTIFICATION

Model/Serial Numbers

FIG. 1: Chassis number (1) is stamped in right side of front frame.

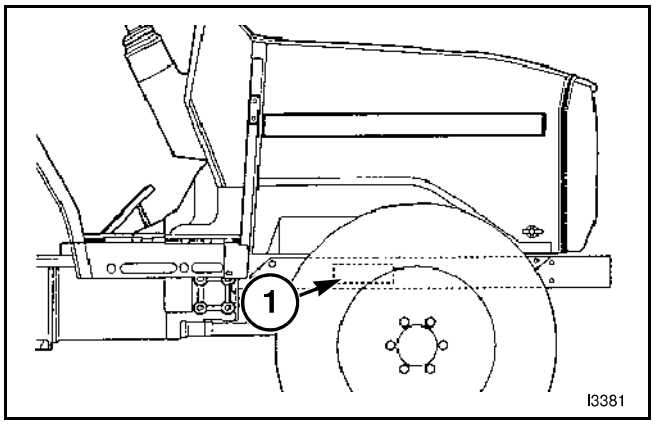

FIG. 1

FIG. 2: Engine model number (1) is cast on right side of engine block, below the injection pump.

Engine serial number (2) is stamped into cylinder block, below engine model number.

Engine Serial Number

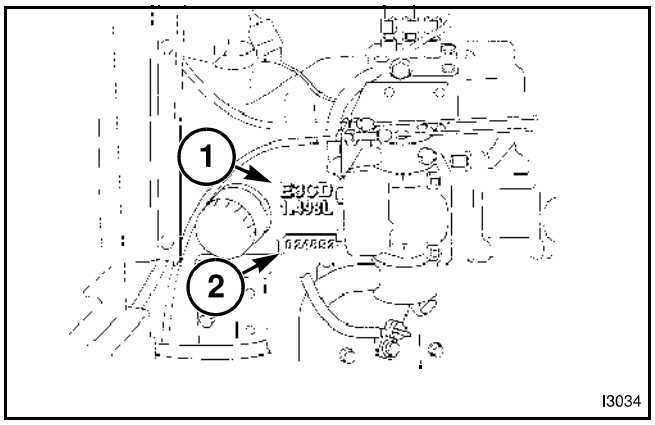

FIG. 2

FIG. 3: The tractor identification plate (1) is located below the operator's seat.

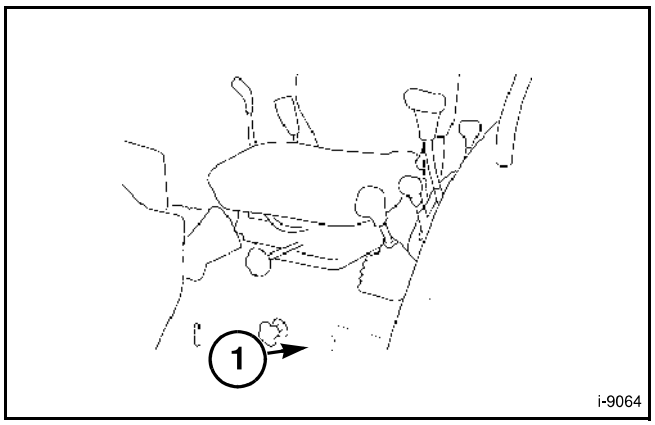

FIG. 3

FIGS. 4–6: The identification plate contains model number and tractor serial number.

FIG. 4

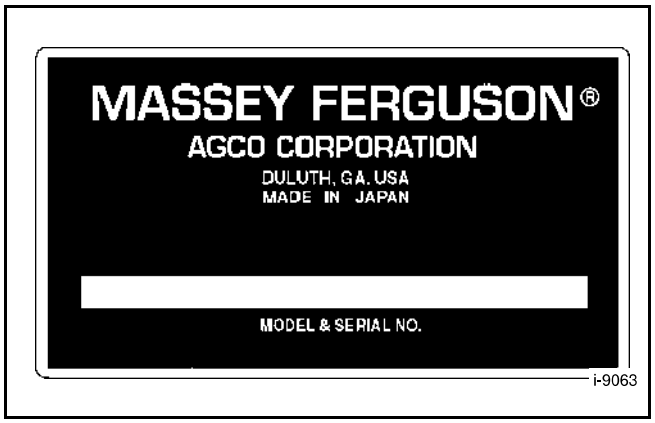

FIG. 5

FIG. 6

NOTES

SPECIFICATIONS AND CAPACITIES

GENERAL DIMENSIONS

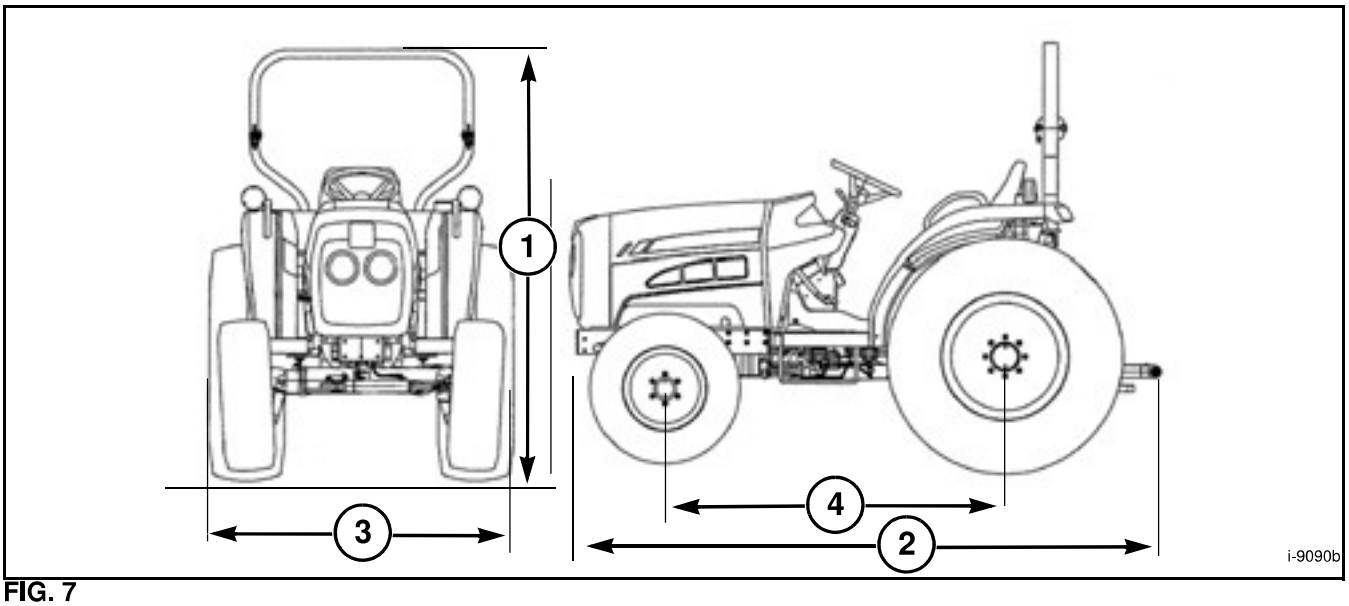

FIG. 7

FIG. 7: Non Cab Tractor Dimensions.

General Dimensions

Overall Height (1) ..... 2209 mm (87 in)

Overall Length (2) ..... 3070 mm (121 in)

Minimum Width (3)

- (Ag Tires) ..... 1680 mm (66.1 in)
- (Turf Tires) ..... 1549 mm (61 in)

Wheelbase (4)

- 33 Horsepower ..... 1770 mm (70 in)
- 40 Horsepower ..... 1770 mm (70 in)

Ground Clearance (Ag Tires) ..... 360 mm (14 in)

Front Wheel Tread

- 2WD ..... 1120 mm (44.1 in)
- 33 Horsepower 4WD ..... 1130 to 1271 mm (44 to 50 in)
- 40 Horsepower 4WD ..... 1130 to 1271 mm (44 to 50 in)

Turning Radius

- With Brake ..... 2500 mm (98 in)
- Without Brake ..... 3100 mm (122 in)

Weight

- 33 Horsepower (4wd) ..... 1375 kg (3031 lb)
- 40 Horsepower (4wd) ..... 1390 kg (3058 lb)

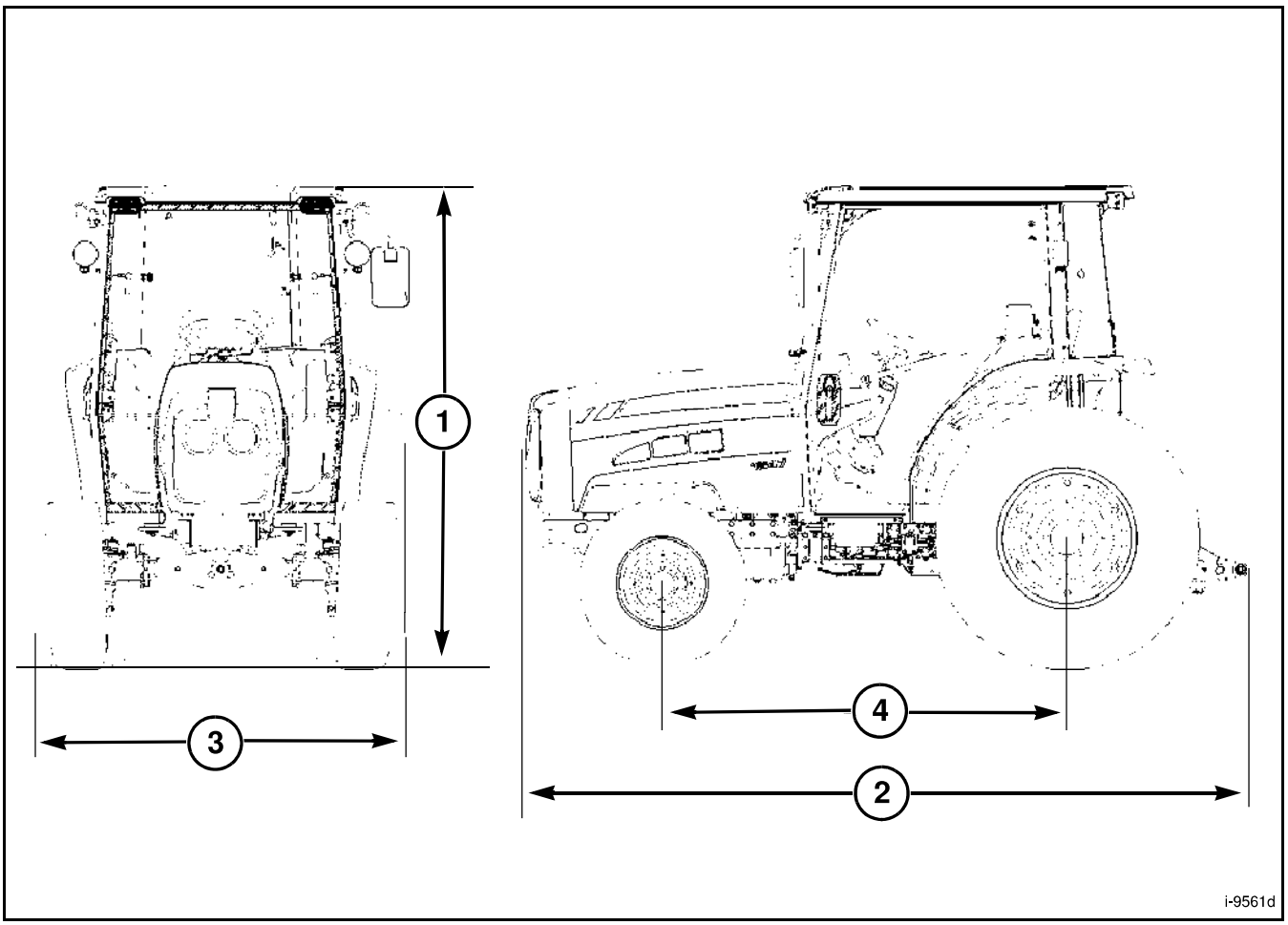

FIG. 8

FIG. 8: Cab Tractor General Dimensions.

Overall Height (1) (Ag Tires)	2220 mm (87.4 in)
Overall Length (2)	3070 mm (121 in)
Minimum Width (3)	
Ag Tires	1565 mm (62 in)
Turf Tires	1530 mm (60 in)
Wheelbase (4)	
33 Horsepower	1770 mm (70 in)
40 Horsepower	1930 mm (76 in)
Ground Clearance (Ag Tires)	360 mm (14 in)
Weight	
33 Horsepower	1535 kg (3384 lb)
40 Horsepower	1823 kg (4023 lb)
Front Wheel Tread	1130 to 1271 mm (44 to 50 in)
Rear Wheel Tread	1190 to 1495 mm (47 to 59 in)
Turning Radius With Brake	2500 mm (98 in)

Engine Oil

Use the appropriate SAE viscosity. Oil must meet or exceed MIL-L-46152 requirements, API Service CC.

Capacity (Crankcase and Filter) ..... 4.7 liters (5.0 US qt)

25 degrees C (78 degrees F) ..... SAE 30W, 1OW-30

Below 0 degrees C (32 degrees F) ..... SAE 20W, 1OW-30

0 to 25 degrees C (32 to 78 degrees F) ..... SAE 20W, 1OW-30

15W-40 may be used in ambient temperatures above -10 degrees C (14 degrees F).

Initial Oil and Filter Change ..... 50 hours

Oil and Filter Change, Thereafter ..... Every 100 hours

Engine Coolant

Freezing Protection (Original Factory Fill) ..... -34 degrees C (-30 degrees F)

Recommended Coolant ..... 50/50 mixture ethylene glycol and water

System Capacity ..... 7.6 liters (8.0 US qt)

Fuel Tank

Capacity ..... 50.0 liters (13.2 US gals)

Fuel Recommended, Above 4°C (39°F) ..... No. 2 or No. 2-D

Fuel Recommended, Below 4°C (39°F) ..... No. 1 or No. 1-D

Transmission & Differential Housing (Including Hydraulic System)

Capacity ..... 31 liters (8.2 US gals)

Recommended Lubricant ..... Permatran III or 821XL

Recommended Change Interval ..... First 50 hours, every 300 hours thereafter

Front Axle (4 WD)

Capacity (Common Reservoir) ..... 7.5 liters (1.9 US gals)

Recommended Lubricant ..... Permatran III or 821XL

Recommended Change Interval ..... First 50 hours, every 300 hours thereafter

Grease Fittings

Grease Interval (All Fittings) ..... Every 50 hours

Recommended Grease ..... Lithium multi-purpose grease EP2

NOTE: Change intervals stated above are for normal usage. Due to adverse operating conditions, that may be experienced (extremely dusty or muddy), change intervals may need to be more frequent.