

Massey Ferguson®

1529 / 1532
Compact Tractor

SERVICE MANUAL 4283092M2

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1529 / 1532 Compact Tractor

WORKSHOP SERVICE MANUAL 4283092M2

01 - General Information

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GENERAL INFORMATION

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 compact tractor. 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 US 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.

General Information

TRACTOR IDENTIFICATION

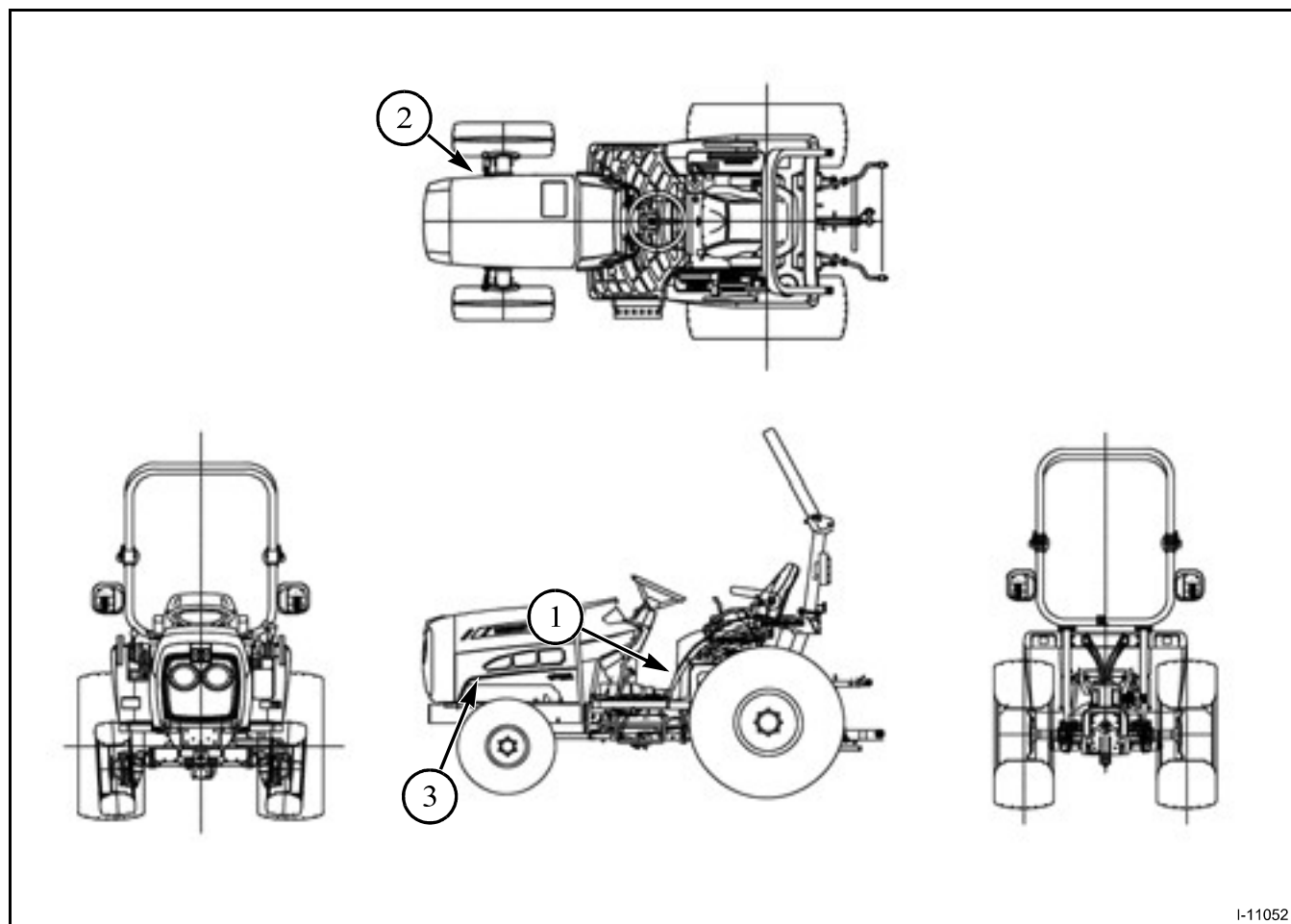


FIG. 1

FIG. 1: Identification Markings

- (1) Tractor serial number
- (2) Chassis serial number
- (3) Engine information

Tractor, Engine Model, and Respective
Serial Numbers

FIG. 2: Each tractor is identified by means of the tractor model and serial numbers. As a further identification, the engine and chassis are also provided with identification numbers.

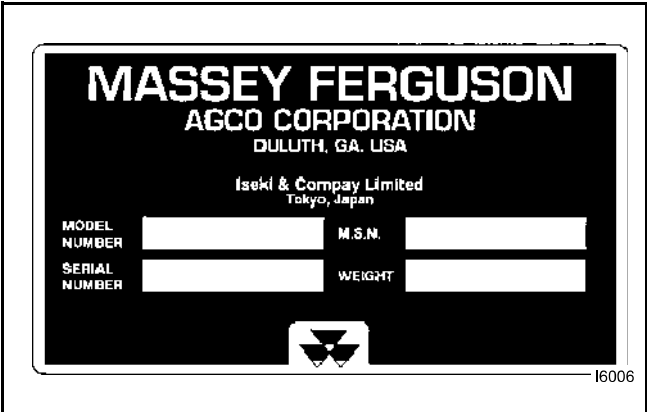


FIG. 2

SPECIFICATIONS

GENERAL SPECIFICATIONS

Engine

Make..... Iseki Diesel

Model

1529 Tractor E3CD-VB60

1532 Tractor E3CD-VB59

Type..... 4-Cycle, overhead valve, diesel with swirl type combustion chambers

Aspiration Natural

Displacement

1529 Tractor 1498 ml (91.41 cu in)

1532 Tractor 1498 ml (91.41 cu in)

Number of Cylinders..... 3

Bore..... 87 mm (3.43 in)

Stroke 84 mm (3.30 in)

Engine Horsepower 1529 Tractor at 2500 rpm

Gross..... 20.9 kW (28.0 hp)

Net..... 20.6 kW (27.6 hp)

Engine Horsepower 1532 Tractor at 2600 rpm

Gross..... 24.2 kW (32.5 hp)

Net..... 23.5 kW (31.5 hp)

PTO Horsepower

1529 Tractor at 544 PTO rpm..... 17.1 kW (23.0 hp)

1532 Tractor at 565 PTO rpm..... 19.5 kW (26.1 hp)

Firing Order..... 1 - 3 - 2

Compression Ratio..... 21.7 - 1

Low Idle Speed

1529 Tractor 980 - 1020 rpm

1532 Tractor 980 - 1020 rpm

High Idle Speed

1529 Tractor 2700 - 2800 rpm

1532 Tractor 2810 - 2910 rpm

Valve Clearance (cold) - intake and exhaust 0.35 mm (0.014 in)

Air Cleaner Single stage, dry element

Engine Cooling Liquid, forced circulation

Cold Starting 3 Glow plugs

Specifications

Transmission

Standard

Primary..... Gear type, 3 speeds forward, 1 reverse with 3 speed range
 Gear Speeds..... 9 gears forward, 3 reverse
 Clutch..... Dry single clutch
 Brakes Mechanically actuated sealed wet disk

Synchroshuttle

Primary..... Gear type, 4 speeds forward with 2 speed range
 Gear Speeds..... 8 gears forward, 8 reverse
 Clutch Dry single clutch
 Brakes Mechanically actuated sealed wet disk

Ground Speed Chart

Standard Transmission

Shift Positions		Tire Size					
		R1		Turf Tire		R-4	
		11.2-24		41x14.00-20		15x19.5	
Range	Gear	kph	mph	kph	mph	kph	mph
Forward							
	1	2.42	1.50	2.33	1.45	2.25	1.40
	2	3.20	1.99	3.08	1.91	2.97	1.85
	3	4.29	2.67	4.13	2.57	3.98	2.47
	1	5.15	3.20	4.97	3.09	4.79	2.98
	2	6.82	4.24	6.57	4.08	6.34	3.94
	3	9.14	5.68	8.81	5.47	8.50	5.28
	1	12.05	7.49	11.62	7.22	11.20	6.96
	2	15.94	9.90	15.36	9.54	14.82	9.21
	3	21.38	13.29	20.60	12.80	19.87	12.35
Reverse							
	R	2.26	1.40	2.17	1.35	2.10	1.30
		4.81	2.99	4.64	2.88	4.47	2.78
		11.25	6.99	10.84	6.74	10.46	6.50

NOTE: Ground speed indicated for 1532 at 2600 engine rpm.

Synchroshuttle Transmissions

Ground Speed Charts

1529 Tractor

Shift Positions		Tire Size					
		R1-1		Turf		R4	
		11.2-24		41x14.00-20		15x19.5	
Range	Gear	kph	mph	kph	mph	kph	mph
Forward							
	1	2.42	1.50	2.33	1.45	2.25	1.40
	2	3.19	1.98	3.07	1.91	2.96	1.84
	3	4.21	2.62	4.06	2.52	3.92	2.44
	4	6.11	3.80	5.89	3.66	5.68	3.53
	1	8.79	5.46	8.47	5.26	8.17	5.08
	2	11.59	7.20	11.17	6.94	10.77	6.69
	3	15.33	9.53	14.77	9.18	14.25	8.85
	4	22.21	13.80	21.40	13.30	20.64	12.83
Reverse							
	1	2.08	1.29	2.01	1.25	1.93	1.20
	2	2.74	1.70	2.64	1.64	2.55	1.58
	3	3.63	2.26	3.50	2.17	3.37	2.09
	4	5.26	3.27	5.07	3.15	4.89	3.04
	1	7.57	4.70	7.29	4.53	7.03	4.37
	2	9.98	6.20	9.62	5.98	9.27	5.76
	3	13.19	8.20	12.71	7.90	12.26	7.62
	4	19.11	11.87	18.42	11.45	17.77	11.04

NOTE: Ground speed indicated for 1529 at 2500 engine rpm.