

Workshop Service Manual

MF 8700 series tractors

HA260 T4f
ML260 T4f

MF 8727
MF 8730
MF 8732
MF 8735
MF 8737



MF 8700 series tractors

1 Introduction

- 1A10 MF 8700 - General
- 1A11 MF 8700 - Error codes
- 1A12 MF 8700 - Fuse box, electrical diagrams, harnesses and hydraulics diagrams
- 1A16 MF 8700 - Adjustments, bleeding and calibrations

2 Separation of assemblies

- 2A17 Front linkage - Disassembly and reassembly
- 2B17 Front axle - Disassembly and reassembly
- 2C17 Side member - Removing and refitting
- 2D17 Engine - Disassembly and reassembly
- 2E17 Engine spacer - Disassembly and reassembly
- 2F17 Hydraulic spacer - Disassembly and reassembly
- 2G17 Tank - Disassembly and reassembly
- 2H17 Cab - Disassembly and reassembly
- 2I17 Rear hydraulic unit - Disassembly and reassembly
- 2J17 Bonnet - Disassembly and reassembly

3 Engine

- 3A10 T4F third-generation SCR engine - General
- 3A13 T4F third-generation SCR engine - Layout of components
- 3A14 T4F third-generation SCR engine - Tests and diagnostics
- 3A16 T4F third-generation SCR engine - Adjustments, bleeding and calibrations
- 3A17 T4F third-generation SCR engine - Disassembly and reassembly
- 3B10 MF 8700 SCR Technology - General
- 3B13 MF 8700 SCR Technology - Layout of components
- 3B17 MF 8700 SCR Technology - Disassembly and reassembly

4 Clutch

Chapter not used for this model

5 Gearbox

- 5A10 ML260 - General
- 5A12 ML260 - Electrical and hydraulics diagrams
- 5A14 ML260 - Tests and diagnostics
- 5A16 ML260 - Adjustments, bleeding and calibrations
- 5A17 ML260 - Disassembly and reassembly
- 5A18 ML260F - Service tools

6 Rear axle

- 6A10 HA260F - General
- 6A13 HA260F - Layout of components
- 6A17 HA260F - Disassembly and reassembly
- 6A20 HA260F/Final drives - General
- 6A23 HA260F/Final drives - Layout of components

6A27	HA260F /Final drives - Disassembly and reassembly
6A28	HA260F/Final drives - Service tools
6A30	HA260F/Differential - General
6A33	HA260F/Differential - Layout of components
6A34	HA260F/Differential - Tests and diagnostics
6A36	HA260F/Differential - Adjustments, bleeding and calibrations
6A37	HA260F/Differential - Disassembly and reassembly
6A38	HA260F/Differential - Service tools
6A40	HA260F/Tractor braking - General
6A43	HA260F/Tractor braking - Layout of components
6A44	HA260F/Tractor braking - Tests and diagnostics
6A46	HA260F/Tractor braking - Adjustments, bleeding and calibrations
6A47	HA260F/Tractor braking - Disassembly and reassembly
6A48	HA260F/Tractor braking - Service tools
6A50	HA260F/ParkLock - General
6A53	HA260F/ParkLock - Layout of components
6A54	HA260F/ParkLock - Tests and diagnostics
6A56	HA260F/ParkLock - Adjustments, bleeding and calibrations
6A57	HA260F/ParkLock - Disassembly and reassembly
6A58	HA260F/ParkLock - Service tools
6A60	HA260F/Hydraulic trailer braking - General
6A63	HA260F/Hydraulic trailer braking - Layout of components
6A64	HA260F/Hydraulic trailer braking - Tests and diagnostics
6A66	HA260F/Hydraulic trailer braking - Adjustments, bleeding and calibrations
6A67	HA260F/Hydraulic trailer braking - Disassembly and reassembly
6A68	HA260F/Hydraulic trailer braking - Service tools
6A70	HA260F/Pneumatic trailer braking - General
6A73	HA260F/Pneumatic trailer braking - Layout of components
6A74	HA260F/Pneumatic trailer braking - Tests and diagnostics
6A76	HA260F/Pneumatic trailer braking - Adjustments, bleeding and calibrations
6A77	HA260F/Pneumatic trailer braking - Disassembly and reassembly
6A80	HA260/Auto-hitch - General
6A83	HA260/Auto-hitch - Layout of components
6A86	HA260/Auto-hitch - Adjustments, bleeding and calibrations
6A90	HA260F/Wheels and hub - General
6A93	HA260F/Wheels and hub - Layout of components
6A96	HA260F/Wheels and hub - Adjustments, bleeding and calibrations

7 Power take-off

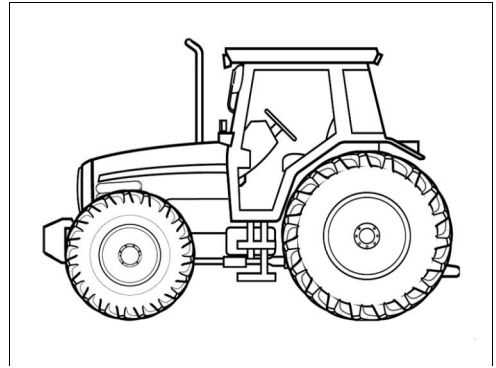
7A10	HA260F/Power take-off - General
7A13	HA260F/Power take-off - Layout of components
7A14	HA260F/Power take-off - Tests and diagnostics
7A16	HA260F/Power take-off - Adjustments, bleeding and calibrations
7A17	HA260F/Power take-off - Disassembly and reassembly
7A18	HA260F/Power take-off - Service tools
7B10	Zuidberg front power take-off - General
7B13	Zuidberg front power take-off - Layout of components
7B14	Zuidberg front power take-off - Tests and diagnostics
7B16	Zuidberg front power take-off - Adjustments, bleeding and calibrations
7B17	Zuidberg front power take-off - Disassembly and reassembly

8	Front axle
8A10	DANA770 - General
8A13	DANA770 - Location of components - Front axle
8A14	DANA770 - Tests and diagnostics
8A17	DANA770 - Disassembly and reassembly
8A18	DANA770 - Service tools
8B17	Bearings and transmission shaft - Disassembly and reassembly
8C10	4WD clutch - General
8C13	4WD clutch - Layout of components
8C17	4WD clutch - Disassembly and reassembly
8D10	Steering unit - General
8D12	Steering unit - Electrical and hydraulics diagrams
8D13	Steering unit - Layout of components
8D14	Steering unit - Tests and diagnostics
8D17	Steering unit - Disassembly and reassembly
9	Hydraulics
9A10	LS hydraulic system - General
9A12	LS hydraulic system - Electrical and hydraulics diagrams
9A13	LS hydraulic system - Layout of components
9A14	LS hydraulic system - Tests and diagnostics
9A18	LS hydraulic system - Service tools
9A20	LS hydraulic system/Hydraulic pumps - General
9A22	LS hydraulic system/Hydraulic pumps - Electrical and hydraulics diagrams
9A23	LS hydraulic system/Hydraulic pumps - Layout of components
9A24	LS hydraulic system/Hydraulic pumps - Tests and diagnostics
9A27	LS hydraulic system/Hydraulic pumps - Disassembly and reassembly
9A28	LS hydraulic system/Hydraulic pumps - Service tools
9A30	LS hydraulic system/Auxiliary spool valves - General
9A32	LS hydraulic system/Auxiliary spool valves - Electrical and hydraulics diagrams
9A33	LS hydraulic system/Auxiliary spool valves - Layout of components
9A34	LS hydraulic system/Auxiliary spool valves - Tests and diagnostics
9A37	LS hydraulic system/Auxiliary spool valves - Disassembly and reassembly
9A38	LS hydraulic system/Auxiliary spool valves - Service tools
9A40	LS hydraulic system/Rear linkage - General
9A42	LS hydraulic system/Rear linkage - Electrical and hydraulics diagrams
9A43	LS hydraulic system/Rear linkage - Layout of components
9A44	LS hydraulic system/Rear linkage - Tests and diagnostics
9A47	LS hydraulic system/Rear linkage - Disassembly and reassembly
9A48	LS hydraulic system/Rear linkage - Service tools
9A50	LS hydraulic system/Front linkage - General
9A52	LS hydraulic system/Front linkage - Electrical and hydraulics diagrams
9A53	LS hydraulic system/Front linkage - Layout of components
9A54	LS hydraulic system/Front linkage - Tests and diagnostics
9A57	LS hydraulic system/Front linkage - Disassembly and reassembly
9A58	LS hydraulic system/Front linkage - Service tools
10	Electricity

10A10	Electricity - General
10A13	Electricity - Layout of components
10B10	Fuse box - General
10B13	Fuse box - Layout of components
10B17	Fuse box - Disassembly and reassembly
10C13	Alternator - Layout of components
10C14	Alternator - Tests and diagnostics
10C17	Alternator - Disassembly and reassembly
10C18	Alternator - Service tools
10E10	Starter - General
10E13	Starter - Layout of components
10E14	Starter - Tests and diagnostics
10E17	Starter - Disassembly and reassembly
10F10	Battery isolator - General
10F17	Battery isolator - Layout of components
11	Electronics
11A10	Diagnostic tools - General
11B10	Telemetry - General
11B11	Telemetry - Error codes
11B12	Telemetry - Electrical and hydraulics diagrams
11B13	Telemetry - Layout of components
11B15	Telemetry - Programming and setting parameters
11B17	Telemetry - Disassembly and reassembly
12	Cab
12A10	Standard air conditioning - General
12A12	Standard air conditioning - Electrical and hydraulics diagrams
12A13	Standard air conditioning - Layout of components
12A14	Standard air conditioning - Tests and diagnostics
12A16	Standard air conditioning - Adjustments, bleeding and calibrations
12A17	Standard air conditioning - Disassembly and reassembly
12A18	Standard air conditioning - Service tools
12B10	Self-regulating air conditioning - General
12B13	Self-regulating air conditioning - Layout of components
12B14	Self-regulating air conditioning - Tests and diagnostics
12B16	Self-regulating air conditioning - Adjustments, bleeding and calibrations
12B17	Self-regulating air conditioning - Disassembly and reassembly
12B18	Self-regulating air conditioning - Service tools
12C10	Semi-active hydraulic suspension - General
12C12	Semi-active hydraulic suspension - Electrical and hydraulics diagrams
12C13	Semi-active hydraulic suspension - Layout of components
12C14	Semi-active hydraulic suspension - Tests and diagnostics
12C16	Semi-active hydraulic suspension - Adjustments, bleeding and calibrations
12C17	Semi-active hydraulic suspension - Disassembly and reassembly
13	Accessories
	accessories kits
14	Service tools
14A01	General



14A03	Engine
14A05	Gearbox
14A06	Rear axle
14A07	Power take-off
14A08	Front axle
14A09	Hydraulics
14A10	Electricity
14A11	Electronics
14A12	Cab



1 - Introduction

1A10	MF 8700 - General	3
1A11	MF 8700 - Error codes	27
1A12	MF 8700 - Fuse box, electrical diagrams, harnesses and hydraulics diagrams	77
1A16	MF 8700 - Adjustments, bleeding and calibrations	313

1A10 - MF 8700 - General

1	Using the manual	5
2	General specifications - MF 8700 tractors	6
3	Forward speeds	13
3.1	Forward speed for all models with Dyna-VT transmission	13
4	Dimensions	14
4.1	Dimensions and weights	14
4.2	Attachment points: Dyna-VT models with 5 t front linkage	17
4.3	Attachment points: Dyna-VT models without front linkage	19
5	Capacities	21
5.1	Capacities	21
5.2	Accumulator pressure and volume	22
6	Conversion table	23
7	Retaining compounds and sealing products	25

1 Using the manual

General

The purpose of this manual is to assist Dealers and Agents in the installation, servicing and repair of Massey Ferguson equipment. It is important to follow the methods shown and to use special tools in order to perform the operations within the times stated in the repair time schedule.

Structure of the manual

Page numbering

This manual is divided into chapters and sections, each page containing the following information:

Example: 10A12.1

10	Chapter
A	Subset letter
1	Subset order number
2	Subset number
1	Page number within the section

The issue number is indicated at the bottom of the page.

Contents

For quick reference, each chapter starts with a table of contents, listing the various sections included in that chapter.

Meaning of reference numbers

(..)	Reference number for parts
------	----------------------------

Service tools

Where the use of a service tool is necessary to carry out an operation, the tool reference is mentioned with the relevant instruction.

Tool drawings for makeshift tools are given at the end of the relevant sections.

Repairs and parts replacement

During replacement operations, it is essential that only genuine Massey Ferguson parts are used.

If non-genuine Massey Ferguson parts are fitted, the tractor warranty may be invalidated and tractor safety may be compromised. All Massey Ferguson parts are guaranteed by the manufacturer. Massey Ferguson Dealers and Agents are required to supply only genuine service parts.

When carrying out repairs and fitting replacement parts and accessories, the following points are of particular importance:

- Legislation in certain countries prohibits the fitting of parts that do not comply with the tractor manufacturer's specifications
- Torque wrench setting figures given in the workshop manual must be strictly respected
- Locking devices must be fitted where specified. If the efficiency of a locking device is impaired during dis-assembly, it must be replaced.

2 General specifications - MF 8700 tractors

Engine					
Model	MF 8727	MF 8730	MF 8732	MF 8735	MF 8737
Brand	AGCO Power				
Type	84 AWF-4f				
Nominal power hp ISO (kW) at an engine speed of 2150 rpm	240 (176)	265 (195)	290 (213)	320 (235)	340 (250)
Maximum power hp ISO (kW) at an engine speed of 1950 rpm	270 (199)	295 (217)	320 (235)	350 (257)	370 (272)
Maximum EPM power hp ISO (kW) at an engine speed of 2100 rpm	300 (221)	325 (239)	350 (257)	380 (279)	400 (294)
Maximum torque (Nm) at an engine speed of 1500 rpm	1220	1300	1390	1530	1540
Maximum EPM torque (Nm)	1300	1390	1500	1590	1600
Idle speed with ParkLock engaged	750 rpm				
Idle speed with ParkLock disengaged	1000 rpm				
Maximum speed	2160 rpm				
Engine weight	1000 kg				
Number of cylinders	6				
Engine displacement (in litres)	8.4				
Piston diameter	111 mm				
Compression ratio	16,7 bar ± 0,5 bar				
Compression pressure	24 bar				
Injection pump brand	Bosch				
Fuel injection type	Common rail HFR20				
Firing order	1-5-3-6-2-4				
Maximum pressure in the high-pressure system	2000 bar				
Injector brand	Bosch				
Injector type	CRIN 3.20				
Charge pump type	Manual				
Fuel prefilter filtration capacity	10 µ				
Main fuel filter filtration capacity	5 µ				
Low-pressure system pressure at minimum speed	0,5 bar to 8,5 bar				
Low-pressure system pressure at maximum speed	0,5 bar to 8,5 bar				
Recommended oil:	API CJ4 or ACEA E9				
Maximum operating tilt (precautions)	25° pitch				
	20° roll				
Oil/fuel consumption	Maximum 0.1 %				
Lubrication system	Gear pump at the bottom of the timing				
Oil cooling system	Cooler integrated into the engine (left side)				
Oil pressure at minimum speed	1 bar				
Oil pressure at maximum speed	2,5 bar at 5 bar depending on the temperature				

Engine					
Model	MF 8727	MF 8730	MF 8732	MF 8735	MF 8737
Relief valve adjustment pressure	5 bar (spring pressure)				
Air suction type	Bi-turbo air/air intercooler and air/water intercooler				
Air preheating type	Grid heater with relay controlled by the ECU				
Number of valves	24				
Valve clearance value	0,35 mm (inlet and exhaust)				
Engine cooling system	Coolant				
Fan type	Vistronic fan				
Thermostat begins to open at	82 °C				
Coolant temperature	-35 °C to 108 °C				
Air compressor brand for the brake system	Knorr Bremse				
Type of compressor	Piston				
Pressure range:	6,5 bar to 8 bar				
Block preheater	110 or 220 volts				
Fuel preheater	Not available				
Urea preheater	Tank and gauge: coolant Pump module and supply lines: electric				
Exhaust fumes recirculation system	DOC + SCR + EGR system				
DOC + SCR system (injection of AdBlue™ or DEF)	DOC with metal substrate (exhaust fumes oxidation catalyser) SCR with two ceramic substrates (exhaust fume treatment)				
Safety system	NOx sensors at exhaust inlet and outlet				
Device brand	Bosch Denox 2.2+				
Type of control	Engine controller EEM4				
Urea solidification temperature	-11 °C				
Oil vapour recirculation system	Closed system breather (CCV)				
Belt: Air conditioning compressor/left-hand alternator	Poly V belt				
Belt: Fan/right-hand alternator	Poly V belt				
Belt: Air compressor	Poly V belt				

Rear axle transmission	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Gearbox type	Continuous variation
Transmission type	ML 260
Number of ranges	2 ranges (high speed range (Hare) and low speed range (Tortoise))
Maximum speed	40 km/h or 50 km/h
Number of creeper gears	No creeper gears
Rear axle type	HA 260 F
Number of pinion/ring gear teeth	12/43
Rear axle ratio (crownwheel and pinion)	32.967
4WD ratio	0.68
Final drive type	Epicyclic

Rear axle transmission	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Final drive reduction ratio	9.2 (123+15/15)
Maximum 4WD clutch torque	350 daNm
Number of 4WD discs	7 discs
Main brake type	10" oil-immersed disc
Number of discs per side	6 discs
Braking pressure	0 to 60 bar
Parking brake type	ParkLock (electrical/hydraulic)
Trailer brake type	Hydraulic and pneumatic with built-in antifreeze pump
Pneumatic trailer braking pressure	6,5 bar to 8 bar
Hydraulic trailer braking pressure	0 to 150 bar
Maximum operating tilt	25° pitch (front/rear)
	20° roll (right/left)
	17° combined
Total loaded weight supported by rear axle	11500 kg

Front axle	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Front axle brand	DANA
Axle type	Suspended or fixed
Supplier reference	Fixed: – 770/504 (standard) – 770/510 (option)
	Suspended: – 770/618 (standard) – 770/624 (option)
Rotational direction	Clockwise
Front axle weight	Fixed: – 770/504: 770 kg – 770/510: 830 kg
	Suspended: – 770/618: 1077 kg – 770/624: 1230 kg
Total loaded weight supported by front axle	9000 kg
Recommended oil type (beam and final drive)	SAE 85 W 90 (API GL4)
Total ratio for front axle	16.862
Number of teeth on final drive	14 x 35 x 85
Final drive ratio	7.071
Number of pinion/ring gear teeth	13/31
Number of differential discs	15 discs
Maximum steering angle	55°

Front axle	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Oscillation angle	± 9°
Type of oscillation stop	Mechanical
Steering ram diameter	90 mm x 45 mm (front axles 770/504 and 770/618) 110 mm x 60 mm (front axles 770/510 and 770/624)
Steering ram stroke	2 x 143,5 mm (front axles 770/504 and 770/618) 2 x 146 mm (front axles 770/510 and 770/624)
Suspension type	Hydraulics
Suspension ram diameter	90 mm x 100 mm
Suspension ram stroke	100 mm
Hydraulic control unit brand	Husco
Hydraulic control unit nominal pressure	200 bar
Number of accumulators	2
Accumulator pressure	Left 1 l : 10 bar Right 1,4 l : 50 bar
Suspension sensor type	Angular potentiometer.
Steering sensor type	Angular potentiometer.
Brake type	Combined with the rear brake
Factor K	1.331

Spool valve	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
System type	Load Sensing
Flow rate	205 l/min
High-pressure pump type	Bosch piston pump
High-pressure pump displacement	85 cm ³
High-pressure pump rotational speed	2500 rpm
High-pressure pump maximum flow rate	205 l/min
High-pressure pump maximum pressure	200 bar
Maximum quantity of oil	120 l
Maximum exportable oil quantity (without adding oil)	40 l continuous 60 l temporary (example: emptying a bucket)
Charge pump type	Suction
Main relief valve adjustment pressure	200 bar ± 10 bar
Number of spool valves (maximum)	8
Number of front "push-pull" connectors	4 connectors i.e. 2 spool valves
Number of rear "push-pull" connectors	12 connectors i.e. 6 spool valves
Maximum flow rate per spool valve	100 l/min ± 10
Spool valve control type	Electric
Recommended oil:	According to MF CMS M1145 specification

Steering	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Steering type	Hydrostatic
Type of control	Steering wheel (standard)
	Steering wheel + electrohydraulic spool valve (SpeedSteer and Auto-Guide™ options)
Orbitrol displacement	315 cm ³ (front axles 770/504 and 770/618)
	400 cm ³ (front axles 770/510 and 770/624)
Steering ram diameter	90 mm x 45 mm (front axles 770/504 and 770/618)
	110 mm x 60 mm (front axles 770/510 and 770/624)
Steering ram stroke	2 x 143,5 mm (front axles 770/504 and 770/618)
	2 x 146 mm (front axles 770/510 and 770/624)
Working pressure	175 bar ± 5 bar
Pressure relief valve adjustment pressure	175 bar ± 5 bar
Shock valve adjustment pressure	235 bar ± 10 bar
Oil recommended for steering	According to MF CMS M1145 specification

Linkage	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Rear lift ram diameter	105 mm
Rear linkage travel	788 mm or 860 mm
Maximum lifting capacity at ball joints (rear)	12000 kg
Operating pressure (rear)	180 bar
3-point linkage category (rear)	3 or 4
Front lift ram diameter	100 mm x 50 mm
Front linkage travel	826 mm
Maximum lifting capacity at ball joints (front)	5000 kg
Operating pressure (front)	190 bar
3-point linkage category (front)	3

Rear power take-off (PTO)	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Number of selections possible for rear PTO	540E/1000 - 1000/1000E
Maximum permissible power 540E in 1"3/8 (21 splines)	100 hp
Maximum permissible power 540E in 1"3/4 (20 splines)	160 hp
Maximum permissible power 1000/1000E in 1"3/8 (6 and 21 splines)	180 hp
Maximum permissible power 1000/1000E in 1"3/4 (20 splines)	MF 8727: 293 hp MF 8730: 262 hp MF 8732: 283 hp MF 8735: 300 hp MF 8737: 300 hp
Engine speed for 540E PTO	1577 rpm

Rear power take-off (PTO)	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Engine speed for 1000E PTO	1605 rpm
Engine speed for 1000 PTO	1970 rpm
Rotational direction	Clockwise
Clutch type	Hydraulics
Number of clutch discs	8 discs
Control pressure	18 bar
Splined shaft type	6 and 21 in 1"3/8 and 20 in 1"3/4

Front power take-off	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Number of selections possible for front PTO	1000 rpm
Maximum permissible power	Clockwise: 147 hp
	Anti-clockwise: 221 hp
Maximum permissible input-output torque	Clockwise: 507 Nm - 1032 Nm
	Anti-clockwise: 762 Nm - 1551 Nm
Rotational direction	2 directions of rotation
Engine speed if PTO 1000	2040 rpm
Ratio	2.04
Clutch type	Hydraulics
Splined shaft type	6 and 21 in 1"3/8

Electric	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Battery brand	TAB
Battery specifications (2 batteries)	12 V - 105 A
Maximum current at start-up (IEC standard)	1010 A
Starter type	12 V noseless
Starter power	4.2 kW
Alternator type	2 x 14 V/120 A (240 A)
Current available on ISOBUS connector	50 A

Electronics	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
instrument panel	Instrument panel
EXT Lite	Transmission, ParkLock function and front axle suspension
3 Autotronic 5 DC	Linkage/Electrohydraulic spool valves/Arm-rest/Semi-active cab
PVG 32 valves	Electrohydraulic spool valves
Lighting/linkage controller	Management of the lighting and of the rear linkage

Electronics	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
1 EEM4 (ECM Tier 4f AGCO Power)	Engine and SCR Denox system
1 Orbitrol Danfoss valve	Orbitrol for the Auto-Guide™/SpeedSteer function
Datatronic CCD	Onboard computer
Automatic air conditioning module	Air conditioning
CAN switches key pad	Controls for several tractor functions, such as 4WD, differential lock, suspension, Auto-Guide™ etc.
AM50 unit	AGCOMMAND (telemetry)

Cab and fittings	
Model	MF 8727/MF 8730/MF 8732/MF 8735/MF 8737
Type of cab suspension available	Semi-active
Type of rear-view mirror control available	Manual or automatic
Type of air conditioning control available	Manual or automatic
Type and brand of air conditioning compressor	DENSO with axial pistons
Compressor displacement	188 cm ³ /rev.
Refrigerant	R134a
Cab noise level	71 DBA
Roof type	Standard High-visibility (optional)

3 Forward speeds

3.1 Forward speed for all models with Dyna-VT transmission

Tractor version 50 km/h*

*depending on country legislation.

For the 40 km/h version, the speed is electronically controlled.

For the 40 km/h version, the tractor reaches maximum speed at 1600 rpm.

For the 50 km/h version, the tractor reaches maximum speed at 1900 rpm.

Continuous variation mode		
	Forward	Reverse
Slow speed range (Tortoise)	0,03 km/h to 28 km/h	0,03 km/h to 16 km/h
High speed range (Hare)	0,03 km/h to 40 km/h or 50 km/h depending on version.	0,03 km/h to 38 km/h

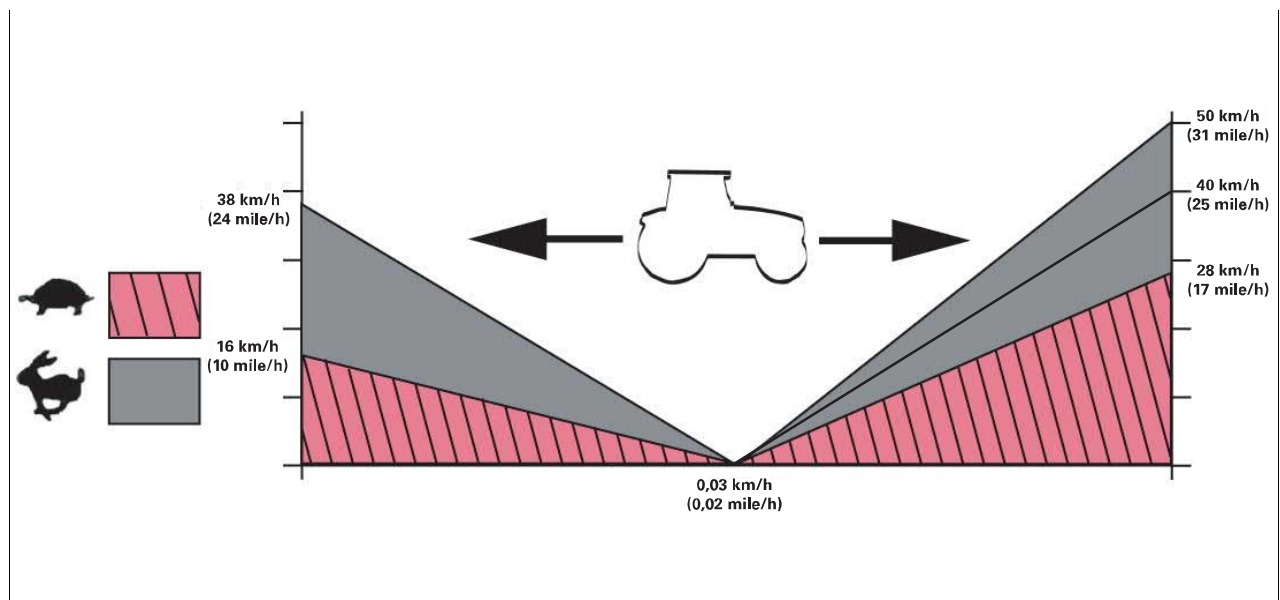
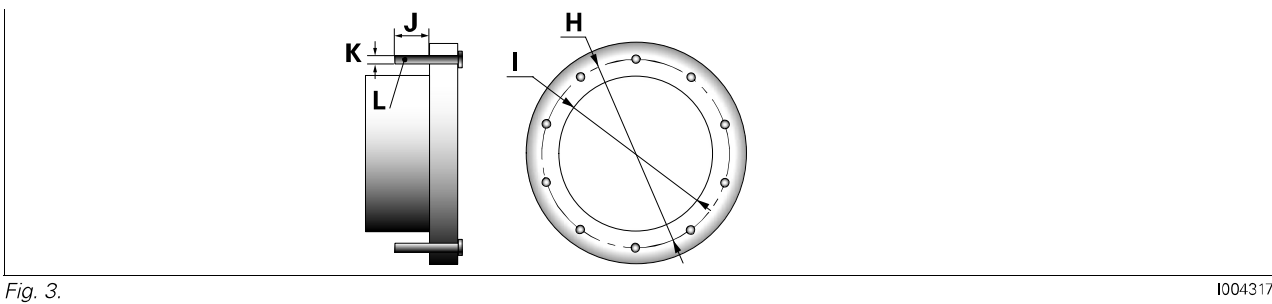
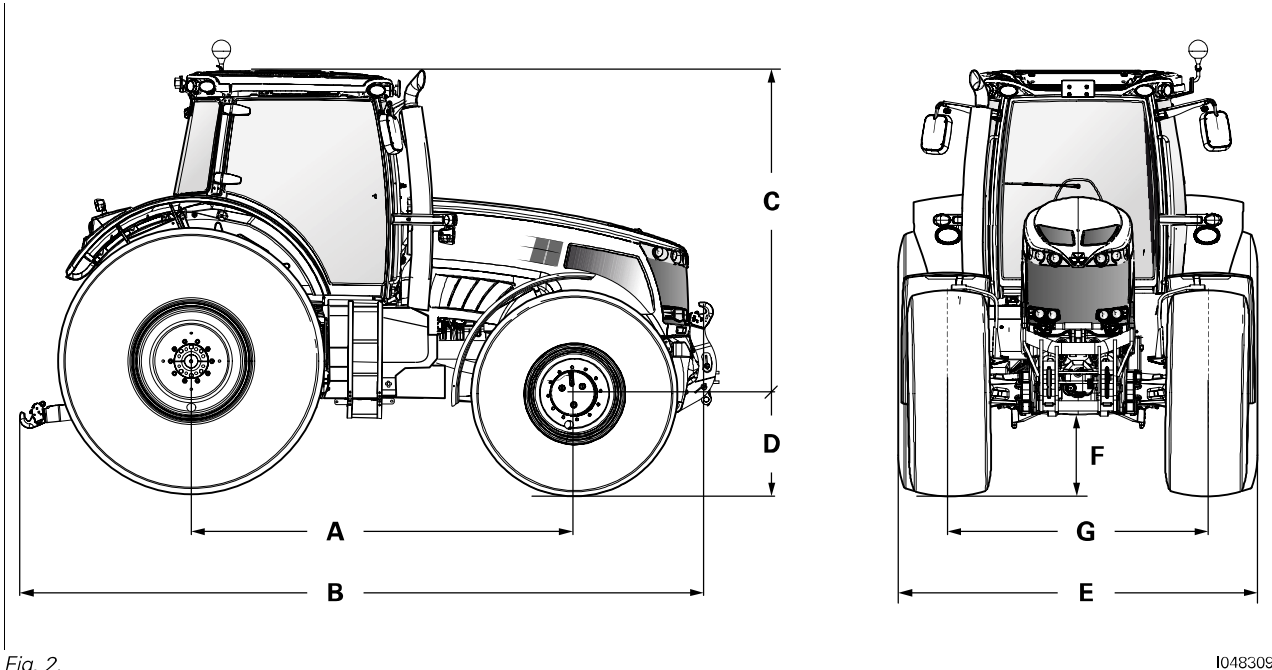


Fig. 1.

I006017

4 Dimensions

4.1 Dimensions and weights



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