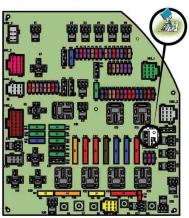
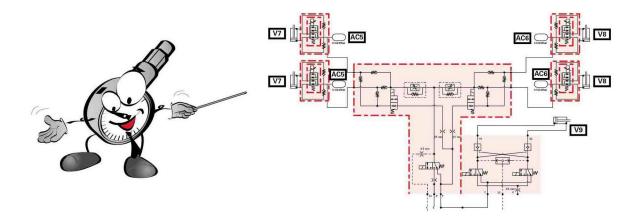


# **Technician Service Book - MF 8700 series tractors**

## Schémas électriques et hydrauliques









## **Technician Service Book - MF 8700 series** tractors

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## 1.1 Specifications

## 1.1.1 Models MF 8700

Engine							
Model	MF 8727	MF 8730	MF 8732	MF 8735	MF 8737	MF 8740	
Brand			AGCC	) Power			
Туре			84	AWF			
Rated power hp ISO (kW) at an engine speed of 2150 rpm	240 (176)	265 (195)	290 (213)	320 (235)	340 (250)	370 (272)	
Maximum power hp ISO (kW) at an engine speed of 1950 rpm	270 (199)	295 (217)	320 (235)	350 (257)	370 (272)	400 (294)	
Maximum EPM power hp ISO (kW) at an engine speed of 2100 rpm	300 (221)	325 (239)	350 (257)	380 (279)	400 (294)	405 (302)	
Maximum torque (Nm) at an engine speed of 1500 rpm	1220	1300	1390	1530	1540	1540 Nm	
Maximum EPM torque (Nm)	1300	1390	1500	1590	1600	1600 Nm	
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	iders 6						
Engine displacement (in liters)	8.4						
Piston travel	145 mm						
Piston diameter	111 mm						
Compression ratio	16,7 bar ± 0,5 bar						
Compression pressure	24 bar						
Injection pump brand	Bosch						
Fuel injection type	Common ra	ail 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						

1-4



Engine							
Model	MF 8727	MF 8730	MF 8732	MF 8735	MF 8737	MF 8740	
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	25° pitch						
(precautions)	20° roll						
Oil/fuel consumption	Maximum (	0.1%					
Lubrication system	Gear pump	at the botto	m of the timi	ing			
Oil cooling system	Cooler inte	grated into t	he engine (le	ft side)			
Oil pressure at minimum speed	1 bar						
Oil pressure at maximum speed	2,5 bar at 5	bar depend	ing on the te	mperature			
Relief valve adjustment pressure	5 bar (sprin	g pressure)					
Air suction type	Bi-turbocha	rged with ai	r/air intercool	er and air/wa	iter intercool	er	
Air preheating type	Grid heater	with relay c	ontrolled by 1	the ECU			
Number of valves	24						
Valve clearance value	0,35 mm (ir	nlet and exh	aust)				
Engine cooling system	Coolant						
Fan type	Vistronic fa	n					
Thermostat begins to open at	82 °C						
Coolant temperature	-35 °C to 10	08 °C					
Air compressor brand for the brake system	Knorr Brem	se					
Type of compressor	Piston						
Pressure range:	6,5 bar to 8	bar					
Block preheater	110 or 220	volts					
Fuel preheater	Not availab	е					
Preheater DEF or AdBlue™	Tank and gage: coolant						
	Pump module and supply lines: electric						
Exhaust fumes recirculation system	DOC + SCF	R + EGR sys	tem				
DOC + SCR system (injection	DOC with r	netal substr	ate (exhaust	fumes oxidat	ion catalyzer	-)	
of DEF or AdBlue™)	SCR with to	vo ceramic	substrates (e	xhaust fume	treatment)		
Safety system	NOx senso	rs at exhaus	t inlet and ou	ıtlet			
Device brand	Bosch Den	ox 2.2+					
Type of control	Engine con	troller EEM <sup>2</sup>					



Engine							
Model	MF 8727	MF 8730	MF 8732	MF 8735	MF 8737	MF 8740	
Urea solidification -11 °C temperature							
Oil vapor recirculation system	ecirculation 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 8700			
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	HA260 F			
Number of pinion/crown wheel teeth	12/43			
Rear axle ratio (crownwheel and pinion)	32.967			
4WD ratio	0.68			
Final drive type	Epicyclic			
Final drive reduction ratio	9.2 (123+15/15)			
Maximum 4WD clutch torque	350 daNm			
Number of 4WD disks	7 disks			
Main brake type	10" oil-immersed disk			
Number of disks per side	6 disks			
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 8700
Front axle brand	DANA
Axle type	Suspended or fixed
Supplier reference	Fixed:
	<ul><li>770/517</li><li>770/518</li></ul>
	Suspended:
	<ul><li>770/638</li><li>770/639</li></ul>
Rotational direction	Clockwise
Front axle weight	Fixed:
	<ul><li>770/517: 770 kg</li><li>770/518: 830 kg</li></ul>
	Suspended:
	• 770/638: 1077 kg
	• 770/639: 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/crown wheel teeth	13/31
Number of differential disks	15 disks
Maximum steering angle	55°
Oscillation angle	± 9°
Type of oscillation stop	Mechanical
Steering ram diameter	90 mm x 45 mm (front axles 770/517 and 770/638)
	110 mm x 60 mm (front axles 770/518 and 770/639)
Steering ram stroke	2 x 143,5 mm (front axles 770/517 and 770/638)
	2 x 146 mm (front axles 770/518 and 770/639)
Suspension type	Hydraulics
Suspension ram diameter	90 mm x 100 mm
Suspension ram stroke	97 mm
Hydraulic control unit brand	Husco
Hydraulic control unit nominal pressure	200 bar
Number of accumulators	2
Accumulator pressure	Left 1 I : 10 bar



Front axle	
Model	MF 8700
	Right 1,4 I : 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 8700
System type	Load Sensing
Flow rate	205 l/min
High-pressure pump type	Bosch piston pump
High-pressure pump displacement	85 cm3
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
Maximum exportable oil quantity (without adding	40 I continuous
oil)	60 I 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 8700
Steering type	Hydrostatic
Type of control	Steering wheel (standard)
	Steering wheel + electrohydraulic spool valve (SpeedSteer and Auto-Guide™ options)
Orbitrol displacement	315 cm3 (front axles 770/517 and 770/638)
	400 cm3 (front axles 770/518 and 770/639)
Steering ram diameter	90 mm x 45 mm (front axles 770/517 and 770/638)



Steering	
Model	MF 8700
	110 mm x 60 mm (front axles 770/518 and 770/639)
Steering ram stroke	2 x 143,5 mm (front axles 770/517 and 770/638)
	2 x 146 mm (front axles 770/518 and 770/639)
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 8700
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
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)	2 or 3

Live PTO	
Model	MF 8700
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: 239 hp
	MF 8730: 262 hp
	MF 8732: 283 hp
	MF 8735: 300 hp
	MF 8737: 300 hp
	MF 8740: 300 hp
Engine speed for 540E PTO	1577 rpm



Live PTO	
Model	MF 8700
Engine speed for 1000E PTO	1605 rpm
Engine speed for 1000 PTO	1970 rpm
Rotational direction	Clockwise
Clutch type	Hydraulics
Number of clutch disks	8 disks
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 8700
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 Control of the Control of t	
Model	MF 8700
Battery brand	TAB
Battery specifications (2 batteries)	12 V - 105 Ah
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 8700
SRC14-34/31	Transmission and ParkLock function
3 Autotronic 5 DC	Linkage/Electrohydraulic spool valves/Armrest/ Semi-active cab/Front axle suspension
PVG 32 valves	Electrohydraulic spool valves
Lighting/linkage controller	Management of the lighting and of the rear linkage
1 EEM4 (ECM Tier 4f AGCO Power)	Engine and SCR Denox system
1 Orbitrol Danfoss valve	Orbitrol for the Auto-Guide™/ functionSpeedSteer
Datatronic 5	Onboard computer
Air conditioning module	Automatic 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 8700
Type of cab suspension available	Semi-active 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 cm3/rev.
Refrigerant	R134a
Cab noise level	71 dB(A)
Roof type	Standard
	High-visibility (optional)



### 1.2 Forward speeds

#### 1.2.1 Forward speed for all models with Dyna-VT transmission

#### 50 kph version\* tractors

\*depending on country legislation.

For the 40 kph version, the speed is electronically controlled. For the 40 kph version, the tractor reaches maximum speed at 1600 rpm. For the 50 kph version, the tractor reaches maximum speed at 1900 rpm.

Continuous variation mode		
	Forward	Reverse
Slow speed range (Tortoise)	0.03 kph to 28 kph	0.03 kph to 16 kph
High speed range (Hare)	0.03 kph to 40 kph or 50 kph depending on version	0.03 kph to 38 kph

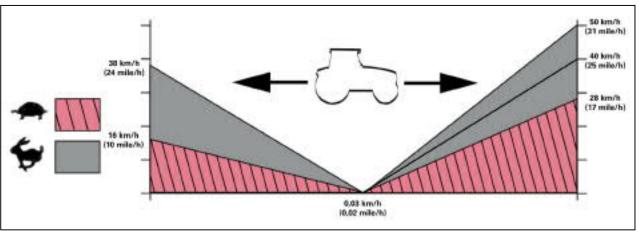


Fig. 1

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