

Technician Service Book - MF 5700 Dyna-4 series tractors

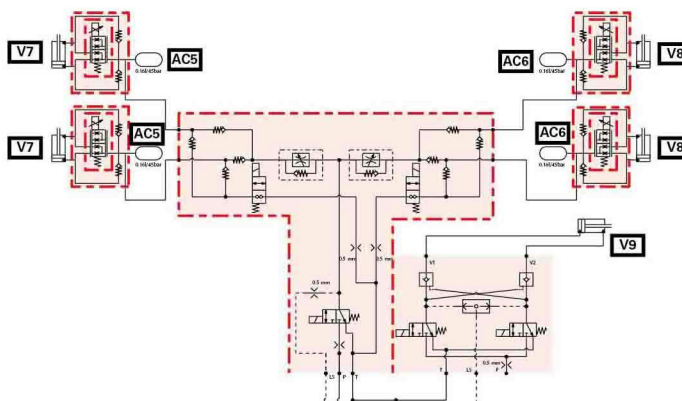
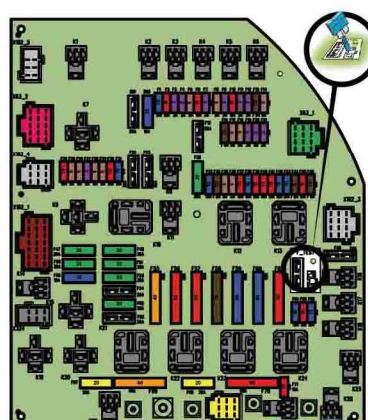
MF 5708 Dyna-4

MF 5709 Dyna-4

MF 5710 Dyna-4

MF 5711 Dyna-4

Schémas électriques et hydrauliques



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1.1 General specifications

1.1.1 MF 5708 Dyna-4 model

Engine	
Brand	AGCO Power
Type	Tier 4F/Stage IV SCR Technology engine
Model	33AWFC
Number of cylinders	3
Maximum ISO power (HP)	85
Maximum torque (Nm)	347

gearbox
GBA50 - 16X16 with 4 powershift ratios and shuttle Power Shuttle Control

Rear axle type
GPA50 - P144B

Final drive type
GPA52

Power take-off	
PTO type	Shiftable
Speeds	540/540E rpm - 540/1000 rpm - 540/540E/1000 rpm
Speed selector control	Electrohydraulic

Front axle	
Front axle type	4-wheel drive
Brand	CARRARO 20.16
Speed	40 km/h
Synchronization ratio (displayed on the name plate)	1.326

Hydraulics	
Hydraulic type	57 l or 98 l Open Center
Number of spool valves	0-1-2-3

Environment
Operator environment

1.1.2 MF 5709 Dyna-4 model

Engine	
Brand	AGCO Power
Type	Tier 4F/Stage IV SCR Technology engine
Model	33AWFC
Number of cylinders	3
Maximum ISO power (HP)	95
Maximum torque (Nm)	355

gearbox
GBA50 - 16X16 with 4 powershift ratios and shuttle Power Shuttle Control

Rear axle type
GPA50 - P144B

Final drive type
GPA52

Power take-off	
PTO type	Shiftable
Speeds	540/540E rpm - 540/1000 rpm - 540/540E/1000 rpm
Speed selector control	Electrohydraulic

Front axle	
Front axle type	4-wheel drive
Brand	CARRARO 20.16
Speed	40 km/h
Synchronization ratio (displayed on the name plate)	1.326

Hydraulics	
Hydraulic type	57 l or 98 l Open Center
Number of spool valves	0-1-2-3

Environment	
Operator environment	

1.1.3 MF 5710 Dyna-4 model

Engine	
Brand	AGCO Power
Type	Tier 4F/Stage IV SCR Technology engine
Model	44AWFC
Number of cylinders	4
Maximum ISO power (HP)	100
Maximum torque (Nm)	410

gearbox	
GBA50 - 16X16 with 4 powershift ratios and shuttle Power Shuttle Control	

Rear axle type	
GPA50 - P144B	

Final drive type	
GPA52	

Power take-off	
PTO type	Shiftable
Speeds	540/540E rpm - 540/1000 rpm - 540/540E/1000 rpm
Speed selector control	Electrohydraulic

Front axle	
Front axle type	4-wheel drive
Brand	CARRARO 20.19
Speed	40 km/h
Synchronization ratio (displayed on the name plate)	1.326

Hydraulics	
Hydraulic type	57-l or 98-l Open Center
Number of spool valves	0-1-2-3

Environment	
Operator environment	

1.1.4 MF 5711 Dyna-4 model

Engine	
Brand	AGCO Power
Type	Tier 4F/Stage IV SCR Technology engine
Model	44AWFC
Number of cylinders	4
Maximum ISO power (HP)	110
Maximum torque (Nm)	417

gearbox	
GBA50 - 16X16 with 4 powershift ratios and shuttle Power Shuttle Control	

Rear axle type	
GPA50 - P144B	

Final drive type

GPA54

Power take-off

Type of power take-off	Shiftable
Speeds	540/540E rpm - 540/1000 rpm - 540/540E/1000 rpm
Speed selector control	Electrohydraulic

Front axle

Front axle type	4-wheel drive
Brand	CARRARO 20.19
Speed	40 km/h
Synchronization ratio (displayed on the name plate)	1.326

Hydraulics

Hydraulic type	Open center
Number of spool valves	0-1-2-3

Environment

Operator environment

1.2 Forward speeds

1.2.1 Forward speed at 2200 tr/min with GPA 52 gearbox and 16.9R38 tires.

Forward and reverse travel, Dyna-4 transmission

Range	Ratio	GPA52	
		Without creeper gears engaged	With creeper gears engaged
1	A	2,07 km/h	0,15 km/h
1	B	2,54 km/h	0,19 km/h
1	C	3,14 km/h	0,23 km/h
1	D	3,85 km/h	0,28 km/h
2	A	5,09 km/h	0,37 km/h
2	B	6,24 km/h	0,46 km/h
2	C	7,71 km/h	0,56 km/h
2	D	9,45 km/h	0,69 km/h
3	A	10,64 km/h	0,78 km/h
3	B	13,05 km/h	0,95 km/h
3	C	16,14 km/h	1,18 km/h
3	D	19,78 km/h	1,45 km/h
4	A	25,21 km/h	1,84 km/h
4	B	30,91 km/h	2,26 km/h
4	C	38,23 km/h	2,79 km/h
4	D	40 km/h	3,43 km/h

1.2.2 Forward speed at 2200 tr/min with GPA 54 gearbox and 16.9R38 tires.

Forward and reverse travel, Dyna-4 transmission

Range	Ratio	GPA 54	
		Without creeper gears engaged	With creeper gears engaged
1	A	2,07 km/h	0,15 km/h
1	B	2,54 km/h	0,19 km/h
1	C	3,14 km/h	0,23 km/h
1	D	3,85 km/h	0,28 km/h
2	A	5,09 km/h	0,37 km/h
2	B	6,24 km/h	0,46 km/h
2	C	7,71 km/h	0,56 km/h
2	D	9,45 km/h	0,69 km/h
3	A	10,64 km/h	0,78 km/h
3	B	13,05 km/h	0,95 km/h
3	C	16,14 km/h	1,18 km/h

Range	Ratio	GPA 54	
		Without creeper gears engaged	With creeper gears engaged
3	D	19,78 km/h	1,45 km/h
4	A	25,21 km/h	1,84 km/h
4	B	30,91 km/h	2,26 km/h
4	C	38,23 km/h	2,79 km/h
4	D	40 km/h	3,43 km/h

1.3 Dimensions and weights

1.3.1 Dimensions and weights

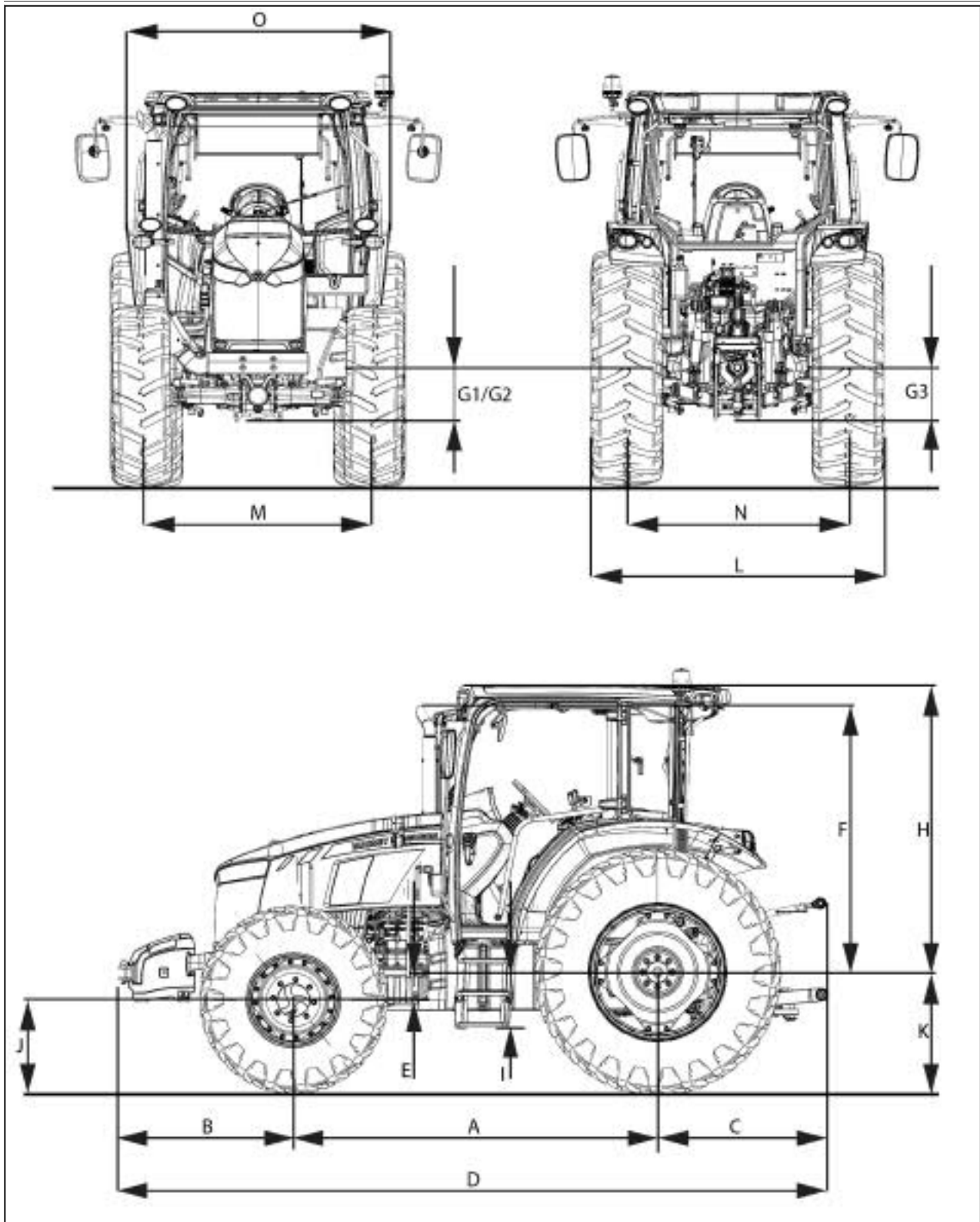


Fig. 1

Reference	Dimensional specifications	3 cylinders
(A)	Wheel base	2320 mm
(B)	Front overhang without weights	675 mm
(B)	Front overhang with weights only	1125 mm
(B)	Front overhang with hitch weights	1195 mm
(C)	Rear overhang with horizontal linkage	1200 mm
(D)	External length without weight	4305 mm
(D)	External length with weights only	4755 mm
(D)	External length with hitch weights	4825 mm
(E)	Difference in height between the front and rear wheel shafts (4-wheel drive)	185 mm
(F)	Height between rear axle shaft and end of the standard exhaust	1778 mm
(G1)	Height between rear axle shaft and low point of front axle (4-wheel drive)	320 mm
(G3)	Height between rear axle shaft and hitch at the lowest point	392 mm
(H)	Distance between rear wheel axle and top of roof - standard mounted cab tractor (with rotary beacon, add 157 mm)	1915 mm
(I)	Distance between rear wheel axle and bottom of ladder - standard mounted cab tractor	368 mm
(J)	Minimum and maximum radii of the front wheels	525 mm to 650 mm
(K)	Minimum and maximum radii of the rear wheels	700 mm to 800 mm
(L)	External width	1821 mm to 2110 mm
(M)	Front track width	4-wheel drive: 1300 mm to 1860 mm
(N)	Rear track width	1320 mm to 1800 mm
(O)	Distance between the fenders (with extension, add 250 mm)	1821 mm

Reference	Dimensional specifications	4 cylinders
(A)	Wheel base	2430 mm
(B)	Front overhang without weights	675 mm
(B)	Front overhang with weights only	1125 mm
(B)	Front overhang with hitch weights	1195 mm
(C)	Rear overhang with horizontal linkage	1200 mm

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