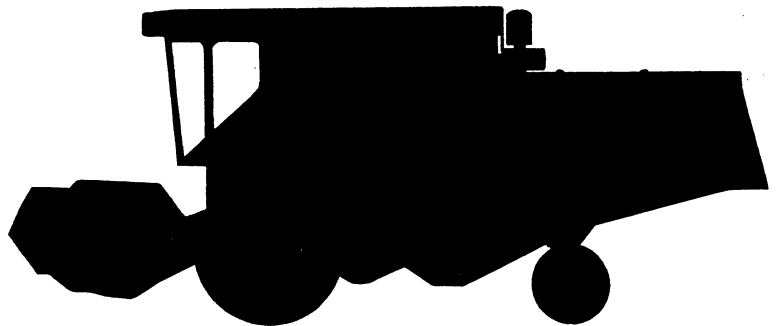


REPAIR MANUAL

CLAAS



CLAAS
DOMINATOR 218 MEGA
DOMINATOR 208 MEGA
DOMINATOR 204 MEGA
DOMINATOR 203 MEGA
DOMINATOR 202 MEGA

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Specifications

1 SPECIFICATIONS

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DOMINATOR 218 MEGA / 208 MEGA

SETTINGS AND CAPACITIES

Hydraulic oil pressures

Pressure relief valve Lift hydraulic system	180 bar
Pressure relief valve Hydrostatic steering system	120 bar + circuit flow pressure
Pressure relief valve Low pressure hydraulic system	20 ⁺² bar
LINDE hydrostatic ground drive system (BPV 100 SR / BMF 105 T)	
High pressure relief valve setting	420 bar
Charge pressure	18 ⁺¹ bar
Cold start valve	25 ^{+2.5} bar

Oil capacities

Hydraulic system

Work hydraulic system Initial filling	8.5 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
Oil change	approx. 7 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
LINDE hydrostatic ground drive system (BPV 100 SR / BMF 105 T)	
Initial filling	20.2 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
Oil change	approx. 8 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*

* The following guide values must be observed when selecting the hydraulic oil:

- Pour point - lower than -25°C (DIN ISO 3016)
- Viscosity 0°C - < 600 cSt. (DIN 51562)
- Viscosity 40°C - max. 50.6 cSt. (DIN 51562)
- Viscosity index - > 170 (DIN ISO 2909)

The oil must have detergency properties.

Specifications

DOMINATOR 218 MEGA / 208 MEGA

Oil capacities

Transmissions

ON MACHINE:

FINAL DRIVE GEARBOXES

4.5 litres each SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 5 - 90 hypoid transmission oil

TRANSMISSION GEARBOX

5 litres SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 5 - 90 hypoid transmission oil

DRUM VARIABLE SPEED DRIVE

Two-step gearbox

1.0 litre SAE 140 (MIL-L-2105)
API - GL - 4 - 140 transmission oil

CLAAS 4-TRAC HYDROSTATIC DRIVEN REAR AXLE

Planetary gearboxes

0.8 litres each SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 5 - 90 hypoid transmission oil

FRONT ATTACHMENTS:

CUTTERBAR KNIFE DRIVE

Wobble drive casing

0.75 litres SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

MAIZE PICKER HEAD SL

Picker head gearboxes

1.0 litre each SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

6-ROW MULTIMASTER

Auxiliary gearbox

1.0 litre SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

Picker head gearboxes

1.25 litres each SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

Engines, see engine operating manual and combine operating manual

Tyre sizes and tyre pressures

Machine type DO 218 / 208 MEGA Tyre size	Maximum tyre pressures	Minimum tyre pressures								
		8-row	Maize picker head			Grain and rice cutterbar				
			6-row folding 6-row with stalk chopper	6-row 5-row with stalk chopper	5-row 4-row-95 cm 4-row with stalk chopper	30' 9.00 m	25'/7.50 m 22'/6.60 m	20'/6.00 m 15'/4.50 m folding	17'/5.10 m 15'/4.50 m	
24.5 - 32 12 PR	2.1 bar	2.1 bar	2.0 bar	2.0 bar	2.0 bar	2.0 bar	2.0 bar	2.0 bar	2.0 bar	1.9 bar
24.5 - 32 16 PR	2.6 bar	2.6 bar	2.3 bar	2.0 bar	2.0 bar	2.3 bar	2.0 bar	2.0 bar	2.0 bar	1.9 bar
24.5 R 32 159 A8	1.9 bar	–	–	1.9 bar	1.8 bar	–	1.9 bar	1.8 bar	1.8 bar	1.8 bar
30.5 R 32 12 PR	1.8 bar	1.8 bar	1.6 bar	1.6 bar	1.6 bar	1.7 bar	1.7 bar	1.7 bar	1.7 bar	1.6 bar
30.5 R 32 166 A8	1.9 bar	1.7 bar	1.4 bar	1.2 bar	1.2 bar	1.4 bar	1.2 bar	1.2 bar	1.2 bar	1.1 bar
14.9/80 - 24 10 PR	2.9 bar	2.4 bar								
500/60 - 22.5 8 PR	2.0 bar	1.5 bar								
16.9 - 24 8 PR	2.2 bar	–	–	–	–	–	–	–	–	2.2 bar

Torque settings of wheel bolts

Rear wheels

wheel nuts with thrust piece H 22
DIN 74361 - 10 = 860 Nm (86 mkp)

Front wheels

wheel bolts M 18 x 1.5 = 325 Nm (32.5 mkp)

CLAAS 4-Trac rear wheel drive

wheel bolts M 22 x 1.5 - 8.8 and
spring washers C 22.5 DIN 74361 (Limes ring) = 520 Nm

DOMINATOR 218 MEGA / 208 MEGA

Basic setting

Reel	drive shaft perpendicular above knife bar, reel tines perpendicular
Intake auger	approx. 15 mm clearance between auger flights and bottom plate of cutterbar trough

Brakes

Foot brake	full braking effect after first third of pedal travel
Hand brake	brake must hold after the first 3 to 4 teeth of the segment

Steering

With steering cylinder piston fully extended, the adjustable stop bolts must be contacting the steering arms

Specifications

DOMINATOR 204 MEGA / 203 MEGA

SETTINGS AND CAPACITIES

Hydraulic oil pressures

Pressure relief valve Lift hydraulic system	180 bar
Pressure relief valve Hydrostatic steering system	120 bar + circuit flow pressure
Pressure relief valve Hydrostatic steering system	20 ⁺² bar
SAUER hydrostatic ground drive system (90 R 075 / 90 M 075)	
High pressure relief valve setting	450 bar
Purging pressure	18 ^{+1.5} bar
Charge pressure	21 ⁺¹ bar

Oil capacities

Hydraulic system

Work hydraulic system:

Initial filling	8.5 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
Oil change	approx. 7 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*

SAUER hydrostatic ground drive system (90 R 075 / 90 M 075)

Initial filling	19 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
Oil change	approx. 8 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*

* The following guide values must be observed when selecting the hydraulic oil:

Pour point	-	lower than -25°C (DIN ISO 3016)
Viscosity at 0°C	-	< 600 cSt. (DIN 51562)
Viscosity at 40°C	-	max. 50.6 cSt. (DIN 51562)
Viscosity index	-	> 170 (DIN ISO 2909)

The oil must have detergency properties.

DOMINATOR 204 MEGA / 203 MEGA

Oil capacities

Transmissions

ON MACHINE:

FINAL DRIVE GEARBOXES

3 litres each SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 4 - 90 hypoid transmission oil

TRANSMISSION GEARBOX

6.8 litres SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 4 - 90 hypoid transmission oil

DRUM VARIABLE SPEED DRIVE

Two-step gearbox

1.0 litre SAE 140 (MIL-L-2105)
API - GL - 4 - 140 transmission oil

CLAAS 4-TRAC HYDROSTATIC DRIVEN REAR AXLE

Planetary gearboxes

0.8 litres each SAE 90, 85 W-90 (MIL-L-2105 B)
API - GL - 5 - 90 hypoid transmission oil

FRONT ATTACHMENTS:

CUTTERBAR KNIFE DRIVE

Wobble drive casing

0.75 litres SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

MAIZE PICKER HEAD SL

Picker head gearboxes

1.0 litre each SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

6-ROW MULTIMASTER

Auxiliary gearbox

1.0 litre SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

Picker head gearboxes

1.25 litres each SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

Engines, see engine operating manual and combine operating manual

Tyre sizes and tyre pressures

Machine type DO 204 MEGA DO 203 MEGA Tyre size	Maximum tyre pressures	Minimum tyre pressures								
		Maize picker head			4-row	Grain putterbar				
		6-row folding 6-row with stalk chopper	6-row 5-row with stalk chopper	5-row 4-row 95 cm 4-row with stalk copper			30' 9.00m	25'/7.50m 22'/6.60 m	20'/6.00 m 15'/4.50 m folding	17'/5.10 m 15'/4.50 m 14'/4.20 m
23.1 - 26 14 PR	2.5 bar	-	2.3 bar	2.1 bar	2.0 bar	-	2.3 bar	2.1 bar	2.0 bar	1.9 bar
23.1 - 30 14 PR	2.5 bar	2.0 bar	1.8 bar	1.7 bar	1.5 bar	-	1.8 bar	1.6 bar	1.5 bar	1.4 bar
23.1 R 30 155 A8	1.9 bar	1.8 bar	1.6 bar	1.5 bar	1.3 bar	1.8 bar	1.6 bar	1.4 bar	1.3 bar	1.2 bar
23.1 R 30 161 A8	2.7 bar	1.6 bar	1.6 bar	1.5 bar	1.3 bar	1.8 bar	1.6 bar	1.4 bar	1.3 bar	1.2 bar
24.5 - 32 16 PR	2.6 bar	1.6 bar	1.4 bar	1.3 bar	1.1 bar	1.6 bar	1.4 bar	1.2 bar	1.1 bar	1.0 bar
24.5 R 32 159 A8	1.9 bar	1.5 bar	1.3 bar	1.2 bar	1.1 bar	1.5 bar	1.3 bar	1.1 bar	1.0 bar	1.0 bar
24.5 R 32 167 A8	3.0 bar	1.5 bar	1.3 bar	1.2 bar	1.1 bar	1.5 bar	1.3 bar	1.1 bar	1.0 bar	1.0 bar
30.5 R 32 166 A8	1.9 bar	0.9 bar	0.7 bar	0.6 bar	0.5 bar	0.9 bar	0.7 bar	0.6 bar	0.7 bar	0.7 bar
20.8 R 38 153 A8	1.9 bar	-	1.9 bar	1.7 bar	1.5 bar	-	1.8 bar	1.6 bar	1.5 bar	1.4 bar
14.5/75 - 20 8 PR	3.0 bar	2.6 bar								
500/60 - 22.5 8 PR	2.0 bar	1.0 bar								
14.9/80 - 24 10 PR	2.9 bar	2.4 bar								

Specifications

DOMINATOR 204 MEGA / 203 MEGA

Torque settings of wheel bolts

Front wheels

wheel nuts with thrust piece H 22
DIN 74361 - 10 = 860 Nm (86 mkp)

Rear wheels

wheel bolts M 18 x 1.5 = 325 Nm (32.5 mkp)

CLAAS 4-Trac rear wheel drive

wheel bolts M 22 x 1.5 - 8.8 and
spring washers C 22.5 DIN 74361 (Limes ring) = 520 Nm

Basic setting

Reel

drive shaft perpendicular above knife bar,
reel tines perpendicular

Intake auger

approx. 15 mm clearance between auger flights and bottom
plate of cutterbar trough

Brakes

Foot brake

full braking effect after first third of pedal travel

Hand brake

brake must hold after the first 3 to 4 teeth of the segment

Steering

With steering cylinder piston fully extended, the adjustable
stop bolts must be contacting the steering arms

DOMINATOR 202 MEGA

SETTINGS AND CAPACITIES

Hydraulic oil pressures

Pressure relief valve Lift hydraulic system	180 bar
Pressure relief valve Hydrostatic steering system	120 bar + circuit flow pressure
Pressure relief valve Hydrostatic steering system	20 ⁺² bar
SAUER hydrostatic ground drive system (90 R 075 / 90 M 075)	
High pressure relief valve setting	450 bar
Purging pressure	18 ^{+1.5} bar
Charge pressure	21 ⁺¹ bar

Oil capacities

Hydraulic system

Work hydraulic system:

Initial filling	7.5 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
Oil change	approx. 6 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*

SAUER hydrostatic ground drive system (90 R 075 / 90 M 075)

Initial filling	19 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*
Oil change	approx. 8 litres of multi-grade hydraulic oil of viscosity classes ISO-VG 32 or VG 46 to DIN 51524 Part 3*

* The following guide values must be observed when selecting the hydraulic oil:

Pour point	-	lower than -25°C (DIN ISO 3016)
Viscosity 0°C	-	< 600 cSt. (DIN 51562)
Viscosity 40°C	-	max. 50.6 cSt. (DIN 51562)
Viscosity index	-	> 170 (DIN ISO 2909)

The oil must have detergency properties.

Specifications

DOMINATOR 202 MEGA

Oil capacities

Transmissions

ON MACHINE:

FINAL DRIVE GEARBOXES

3 litres each SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 4 - 90 hypoid transmission oil

TRANSMISSION GEARBOX

6.8 litres SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 4 - 90 hypoid transmission oil

DRUM VARIABLE SPEED DRIVE

Two-step gearbox

1.0 litre SAE 140 (MIL-L-2105)
API - GL - 4 - 140 transmission oil

CLAAS 4-TRAC HYDROSTATIC DRIVEN REAR AXLE

Planetary gearboxes

0.8 litres each SAE 90, 85 W-90 (MIL-L-2105 B)
API GL - 5 - 90 hypoid transmission oil

FRONT ATTACHMENTS:

CUTTERBAR KNIFE DRIVE

Wobble drive casing

0.75 litres SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

MAIZE PICKER HEAD SL

Picker head gearboxes

1.0 litre each SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

6-ROW MULTIMASTER

Auxiliary gearbox

1.0 litre SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

Picket head gearboxes

1.25 litres each SAE 90 (MIL-L-2105)
API - GL - 4 - 90 transmission oil

Engines, see engine operating manual and combine operating manual

Tyre sizes and tyre pressures

Machine type DO 202 MEGA	Tyre size	Maximum tyre pressures	Minimum tyre pressures							
			Maize picker head			Grain and rice cutterbar				
			5-row with stalk chopper	4-row with stalk chopper	4-row 5-row	22' 6.60 m	20'/6.00 m	17'/5.10 m 15'/4.50 m 14'/4.20 m	13'/3.90 m 12'/3.60 m	15'/4.50 m folding
23.1 - 26	14 PR	2.5 bar	2.3 bar	2.1 bar	2.0 bar	2.3 bar	2.1 bar	2.0 bar	1.9 bar	–
28.1 - 26	14 PR	1.8 bar	1.8 bar	1.7 bar	1.5 bar	1.8 bar	1.6 bar	1.5 bar	1.4 bar	–
23.1 - 30	14 PR	2.5 bar	1.6 bar	1.5 bar	1.3 bar	1.6 bar	1.4 bar	1.3 bar	1.2 bar	1.7 bar
23.1 R 30	155 A8	1.9 bar	1.4 bar	1.3 bar	1.1 bar	1.4 bar	1.2 bar	1.1 bar	1.0 bar	1.5 bar
23.1 R 30	161 A8	2.7 bar	1.5 bar	1.3 bar	1.3 bar	1.4 bar	1.3 bar	1.3 bar	1.1 bar	1.5 bar
24.5 - 32	16 PR	2.6 bar	1.3 bar	1.2 bar	1.1 bar	1.3 bar	1.1 bar	1.0 bar	1.0 bar	1.4 bar
24.5 R 32	159 A8	1.9 bar	1.2 bar	1.1 bar	1.1 bar	1.2 bar	1.0 bar	1.0 bar	0.9 bar	1.3 bar
12.5/80 - 18	10 PR	4.0 bar	2.2 bar							
14.5/75 - 20	8 PR	3.0 bar	1.5 bar							
500/60 - 22.5	8 PR	2.0 bar	0.8 bar							
14.9/80 - 24	10 PR	2.9 bar	2.4 bar							

DOMINATOR 202 MEGA

Torque settings of wheel bolts

Front wheels

wheel nuts with thrust piece H 22
DIN 74361 - 10 = 860 Nm (86 mkp)

Rear wheels

wheel bolts M 18 x 1.5 = 325 Nm (32.5 mkp)

CLAAS 4-Trac rear wheel drive

wheel bolts M 22 x 1.5 - 8.8 and
spring washers C 22.5 DIN 74361 (Limes ring) = 520 Nm

Basic setting

Reel

drive shaft perpendicular above knife bar,
reel tines perpendicular

Intake auger

approx. 15 mm clearance between auger flights and bottom
plate of cutterbar trough

Brakes

Foot brake

full braking effect after first third of pedal travel

Hand brake

brake must hold after the first 3 to 4 teeth of the segment

Steering

With steering cylinder piston fully extended, the adjustable
stop bolts must be contacting the steering arms

Specifications

DOMINATOR 218 MEGA - 202 MEGA

Safety features

Slip clutches

Upper feed rake shaft 430 Nm - double spring

Reel:

Grain cutterbar up to 5.10 m	300 Nm
Grain cutterbar above 6.0 m	430 Nm
4.50 m folding grain cutterbar	200 Nm each
Rice cutterbar	300 Nm
Soybean cutterbar	300 Nm
Intake auger	300 Nm
Grain cutterbar up to 4.50 m	300 Nm
Grain cutterbar above 5.10 m	700 Nm
Rice cutterbar up to 4.50 m	300 Nm
Rice cutterbar above 5.10 m	700 Nm
Soybean cutterbar 3.90 m - 7.50 m	700 Nm

4-row maize picker head SL	250 ± 40 Nm
5-row maize picker head SL	250 ± 40 Nm
6-row maize picker head SL	250 ± 40 Nm
8-row maize picker head SL	250 ± 40 Nm
6-row maize picker head, folding (Multimaster)	250 ± 40 Nm

Cam-type cut-out clutch

Picker-head gearboxes:

5-row maize picker head SL	650 ± 50 Nm
5-row maize picker head SL	770 ± 50 Nm
6-row maize picker head SL	990 ± 50 Nm
8-row maize picker head SL	2 x 650 ± 50 Nm
6-row maize picker head, folding (Multimaster)	1400 Nm

Shear bolt

Grain tank unloading	Hexagon head bolt MEGA 218 / 208 M10 x 50 MK (Vp) DIN 931 - 8.8 Self-locking nut VM 10 MEGA 204 / 202 M10 x 40 MK (Vp) DIN 931 - 8.8 Self-locking nut VM 10
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