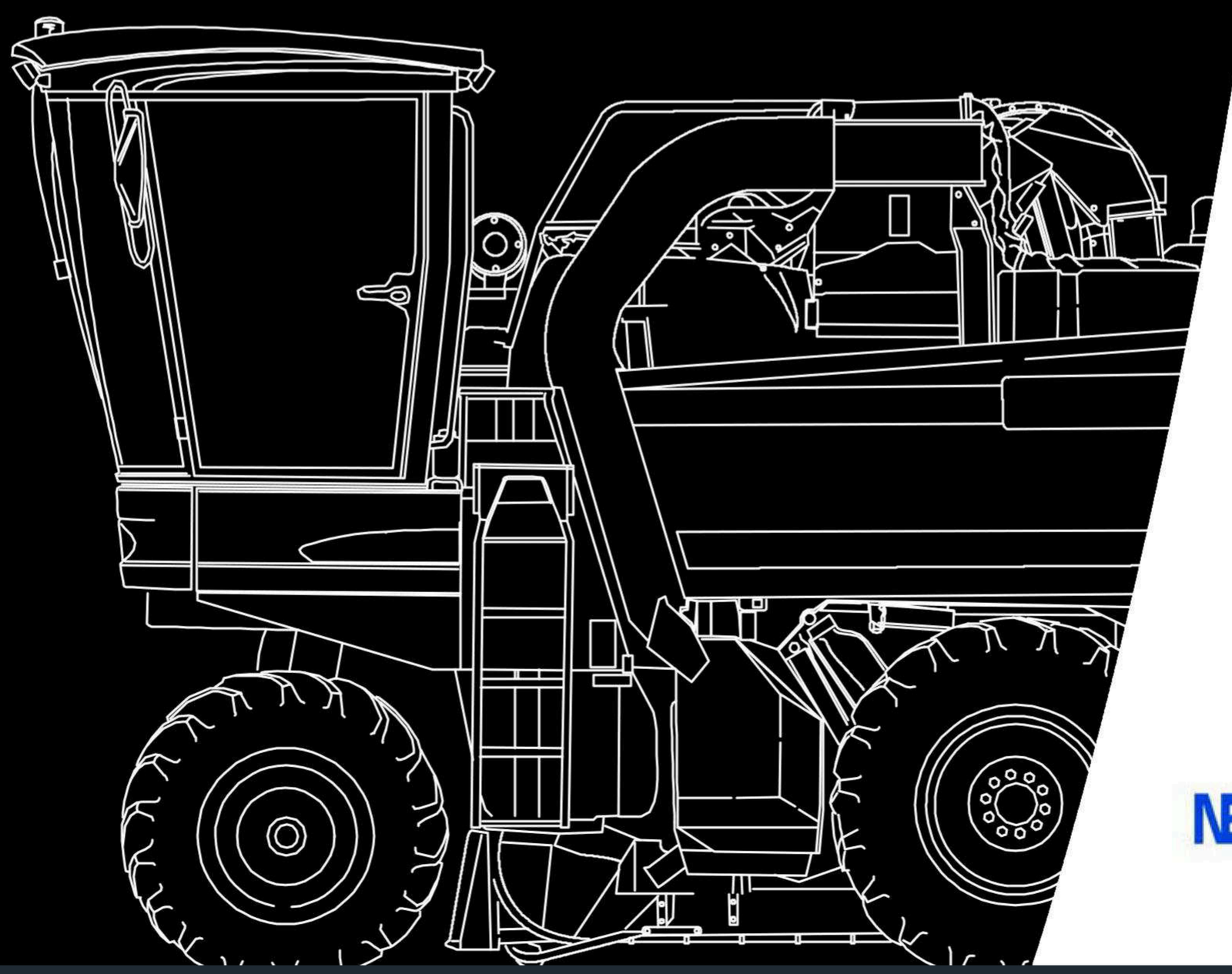
REPAIR MANUAL

NEW HOLLAND

VL5090
VL6040 **VM3090**
VL6050 **VM4090** **VN2090**
VL6060
VL6070
VL6080
VL6090



NEW HOLLAND

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REPAIR MANUAL

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SPECIFICATIONS

Chapter 1

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SECTION 00 - MAINTENANCE

Chapter 1

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ANGLE TIGHTENING TORQUES

PARTS TO BE TIGHTENED	Threading	Torque		Angle
		Nm	kgm	
Main bearing cap fastening bolts (1, fig. 77)				
step 1	M12 x 1.5	50 ± 6	5.0 ± 0.6	-
step 2	M12 x 1.5	80 ± 6	8.0 ± 0.6	-
step 3	M12 x 1.5	-	-	90° ± 5°
Connecting rod cap fastening bolts (1, fig. 89)				
step 1	M10x1.25	30 ± 5	3.0 ± 0.5	-
step 2	M10x1.25	50 ± 5	5.0 ± 0.5	-
step 3	M10x1.25	-	-	60° ± 5°
Cylinder head fastening screws (1, fig. 112)	M 12 x 1.75 x 70	50 ± 5	5.0 ± 0.5	90°
Note: *for the tightening order, see page 60, figures 113 - 114.*	M 12 x 1.75 x 140	40 ± 5	4.0 ± 0.5	180°
	M 12 x 1.75 x 180	70 ± 5	7.0 ± 0.5	180°
Crankshaft pulley fastening bolts (4, fig. 136)	M 12 x 1.25	50 ± 5	5.0 ± 0.5	90° ± 5°
Flywheel fastening bolts (1, fig. 128)	M 12 x 1.25	30 ± 5	3.0 ± 0.5	60° ± 5°

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INCHING AND NORIA WASHING DIAGRAM VM3090; VL5090 AND VN2090

⬡

20 Road/field position control electric distributor

26 Electric distributor to control proportional inching norias

46 Electric distributor to control norias for washing

50 Traction reduction electric distributor (optional)

60 Capacity divider control solenoid valve (VN300)

220 Road/field position control electric distributor

○

12 Pressure switch for priming pressure, enabled at 17 bar

34 Braking reduction pressure probe, calibrated at 17 bar

68 Pressure switch for reverse or deceleration stop light switching-on, starting from 60 bar in this branch

152 Return filter

155 Wheel motor drain filter

156 By-pass valve calibrated at 2 bar

158 Oil cooler

201 "Rexroth" hydrostatic pump A4VG 90 cm^3/rev.

- Priming pump, 25 cm^3/rev.
- Priming pressure limiter, at 25 -0 +3 bar
- Forward range HP limiter, calibrated at 505 ±20 bar
- Reverse range HP limiter, calibrated at 505 ±20 bar
- Displacement elimination at 480 bar
- (a) reverse range control
- (b) forward range control

202-203 POCLAIN rear motor, with two fixed displacements, with normally engaged brakes. Brake release starting from 15 bar.

204-205 POCLAIN front motor, with fixed displacement

206 Hydrostatic drilled block, fastened on the inching pump

207 Oil exchange switch

208 Oil exchange pressure limiter, 50 to 60 l/minute, at 25 bar; do not touch it during adjustment

209 Slide valve operated by the road/field control electric distributor (20)

210 Distributor on antiskid or steering valve placed at the top of the front left leg

211 Check valve

212 "EATON" motor for noria operation through the return of the two rear motors

213 Noria motor pressure limiter, calibrated at 150 +5 -0 bar, with pressure gauge installed on the lifting block intake

214 Slide valve operated by the inching proportional noria control electric distributor (26)

217 Pressure limiter at 480 bar

218 Pressure limiter at 480 bar

219 HP pressure intake

221 Braking control block

222 Parking brake distributor, mechanically operated

223 HP pressure intake

224 Traction reduction distributor (optional)

225 Capacity divider (VN300)

226 Braking reduction pressure reducer 655; 653; 635; 633013 and 643004

A From lifting/sloping pump

B To cleaning circuit

C To cleaning pump

F From lifting circuit

NOTE: *the priming pressure intake is located on the cleaning circuit.*

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MULTIPURPOSE WIRING DIAGRAM

Up to models from VL6050 to 6090 series 009, VM4090 series 005

Card A Self-propelled machine electric card, located at the back of the cab

Card P Electronic card on the panel

Ma - Ground points (see section 55.1)

87 Multipurpose switch located on the steering column

88 Connector for possible multipurpose left multifunction switch

90 Hopper control switch on panel or multipurpose

X23 Connector placed under the platform

XP1, XP2, XP3, XP4, XP5, XP6 and XP7: free connectors for multipurpose. They are located in the electric cabinet, behind the cab.

NOTE: to disable the hectare counter:
1) inching speed must be higher than 0,5 km/h
2) frequency on the shaking reader must be higher than 50 rpm
3) supply must be present on EV 29 or XP7/8

Connector XP7

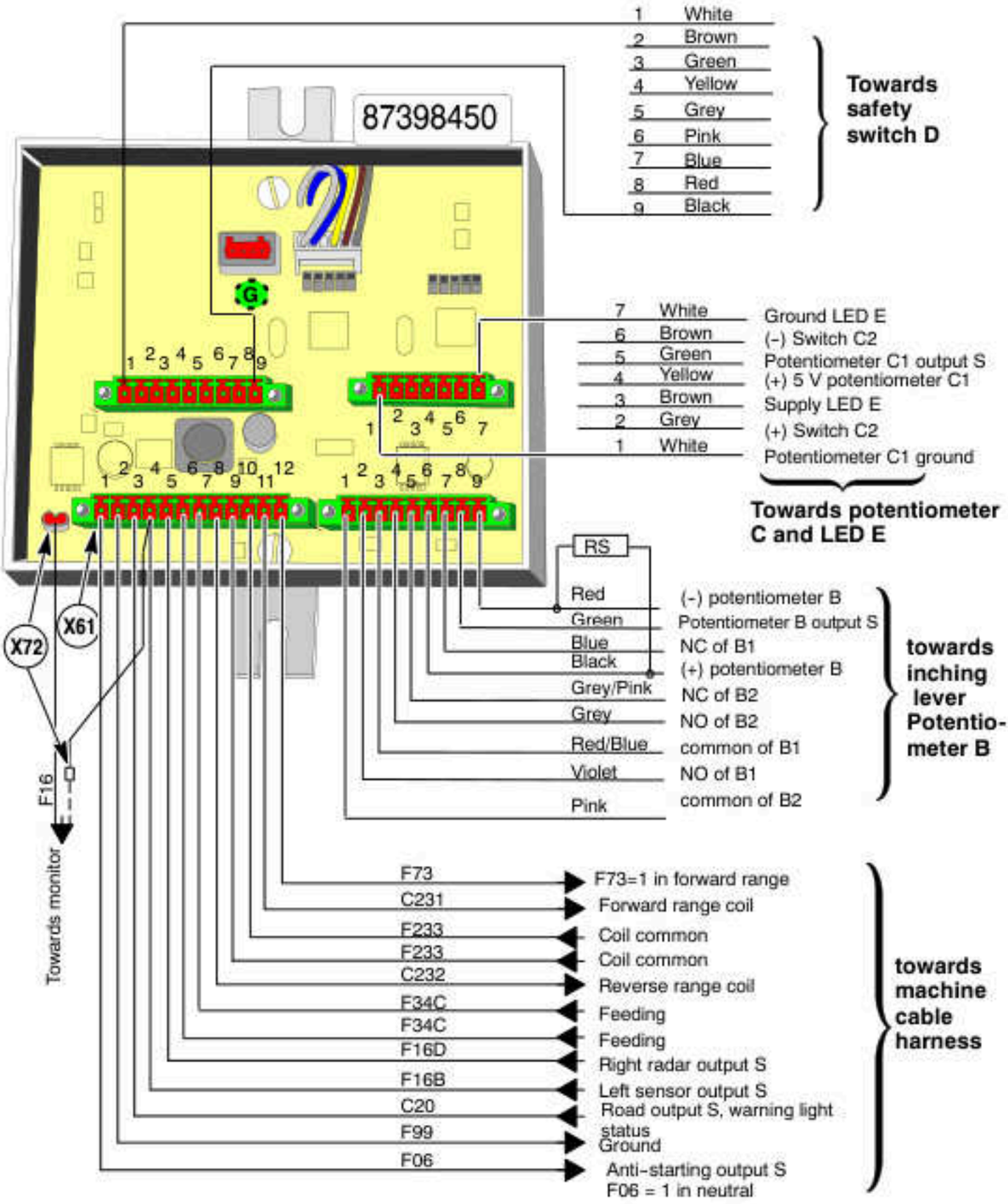
Pos.	Wire	Description
1	F23	12-V power supply **15 A max., protected by F11**
2	F23	
3	F99	Grounds **15 A max.**
4	F99	
5	F251	Signal to lower extractor speed information
6	F16	Signal coming from the inching sensor
7	F150	Signal to shaking speed information
8	F229	Towards panel, because if it corresponds to 12 V, it comes from the hectare-counter
9	C29	Shaking enabling signal (for automatic greasing)
10	F46	Noria washing enabling signal (for automatic washing)
11	C51	Signal to upper extractor speed information
12	C10	Service circuit by-pass signal, **3 A max.**

NOTE: *for power supply and ground, the max. intensity is 15 A with both cables connected. Nevertheless, a single cable can power 12 A in this case, so 3 A are available for the other.*

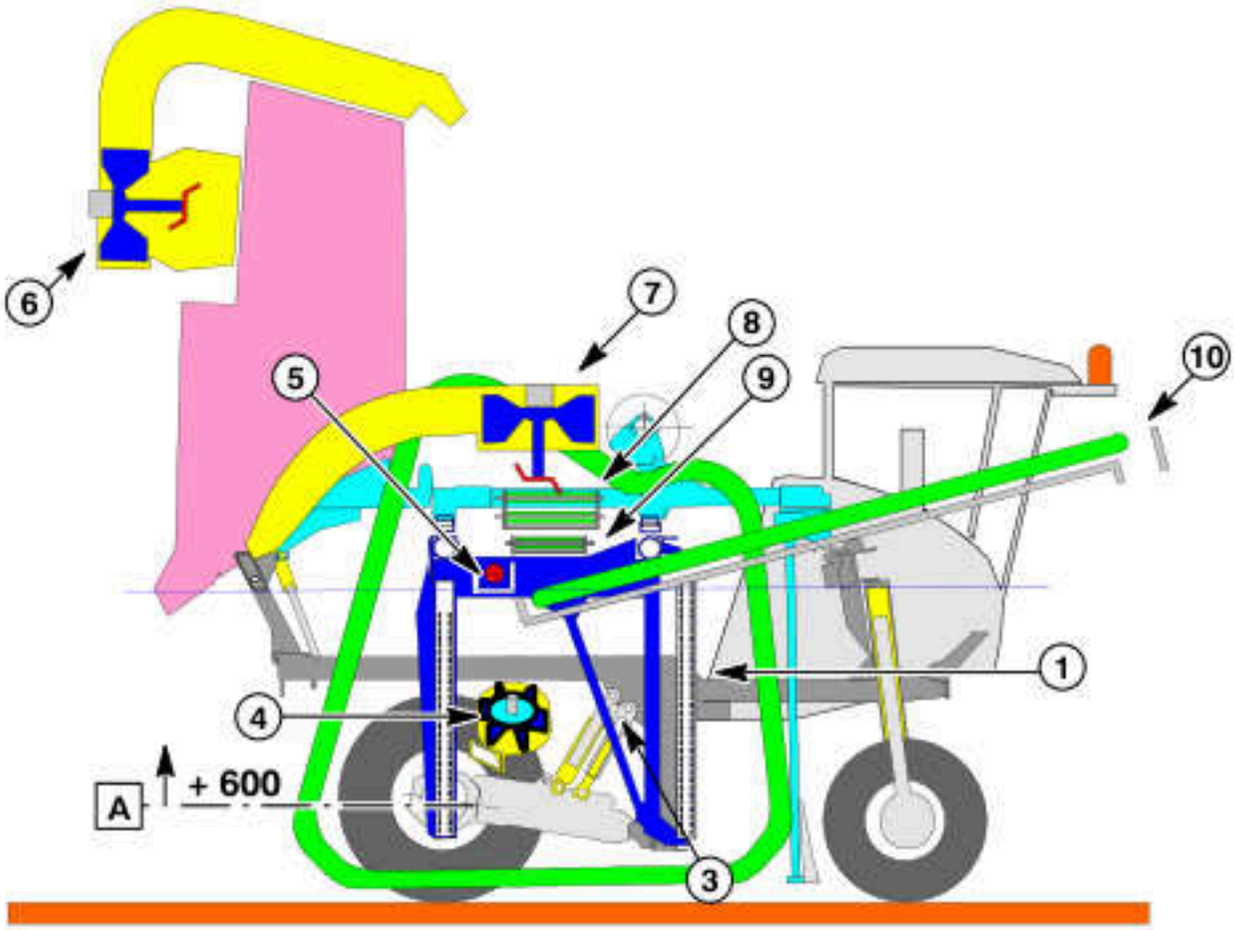
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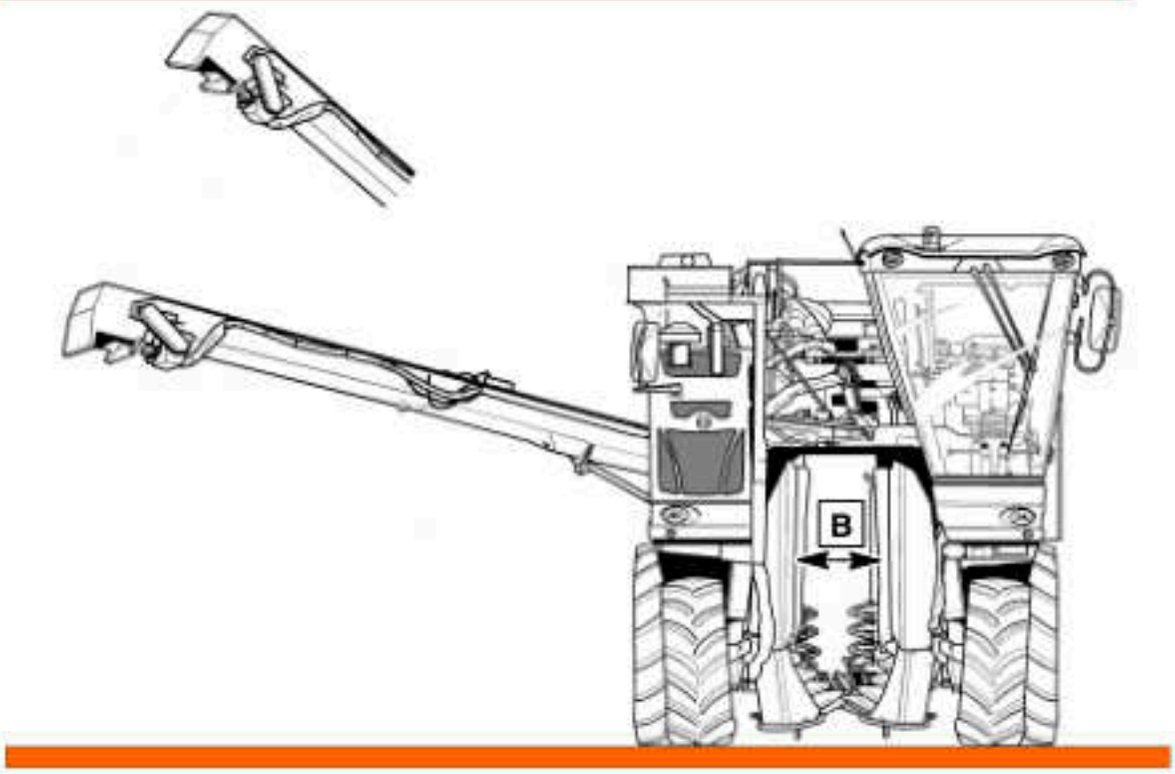
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Connection



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