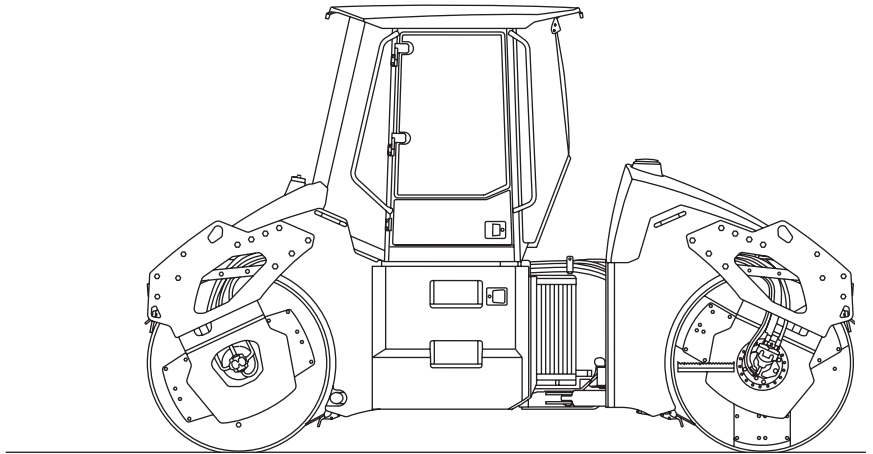


# ARX 90

TANDEM ROLLER  
DEUTZ TCD3,6 L4  
EU Stage IIIA / U.S. EPA Tier 3



## WORKSHOP MANUAL

EDITION 07/2021 EN  
Product identification number 3008232 -

**AMMANN**

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## **2. Safety Precautions and Instructions**

**Legend:**

- 1 - Front frame
- 2 - Rear frame
- 3 - Front drum
- 4 - Rear drum
- 5 - Engine
- 6 - Hydrogenerator for travel (roll)
- 7 - Hydrogenerator for vibration of front drum
- 8 - Hydrogenerator for vibration of rear drum
- 9 - Travel hydraulic motor
- 10 - Vibration hydraulic motor
- 11 - Steering joint
- 12 - Hydraulics tank
- 13 - Fuel tank
- 14 - Sprinkling tank
- 15 - Cabin with integrated frame ROPS
- 16 - Driver's control stand
- 17 - Batteries
- 18 - Combined cooler
- 19 - Air filter
- 20 - Exhaust pipe
- 21 - Sprinkling jets
- 22 - Drum scrapers

		ARX 90	ARX 90 HF	ARX 90 C
		EU Stage IIIA / U.S. EPA Tier 3		
<b>Engine</b>				
Manufacturer	-	Deutz	Deutz	Deutz
Type	-	TCD3,6 L4	TCD3,6 L4	TCD3,6 L4
Power according to ISO 14396	kW (HP)	74,4 (100)	74,4 (100)	74,4 (100)
Number of cylinders	-	4	4	4
Cylinder capacity	cm <sup>3</sup> (cu in)	3621 (221)	3621 (221)	3621 (221)
Nominal speed	min <sup>-1</sup> (RPM)	2200	2200	2200
Maximum torque	Nm (ft lb)/rpm	410/1600	410/1600	410/1600
Average fuel consumption	l/h (gal US/h)	9,8 (2,6)	9,8 (2,6)	9,8 (2,6)
Engines complies with emission regulations	-	EU Stage IIIA, U.S. EPA Tier 3	EU Stage IIIA, U.S. EPA Tier 3	EU Stage IIIA, U.S. EPA Tier 3
Cooling system of engine	-	Liquid	Liquid	Liquid
<b>Brakes</b>				
Operating	-	Hydrostatic	Hydrostatic	Hydrostatic
Parking	-	Mechanical multiple-disc	Mechanical multiple-disc	Mechanical multiple-disc
Emergency	-	Mechanical multiple-disc	Mechanical multiple-disc	Mechanical multiple-disc
<b>Vibration</b>				
Frequency I	Hz (VPM)	38 (2280) - 42 (2520)	42 (2520) - 46 (2760)	43 (2520) - 46 (2760)
Frequency II	Hz (VPM)	45 (2700) - 54 (3240)	58 (3480) - 67 (4020)	59 (3480) - 67 (4020)
Oscillation frequency	Hz (VPM)	40 (2400)	40 (2400)	-
Amplitude I	mm (in)	0,7 (0,028)	0,62 (0,024)	0,7 (0,028)
Amplitude II	mm (in)	0,34 (0,013)	0,23 (0,009)	0,34 (0,013)
Oscillation amplitude	mm (in)	1,3 (0,051)	1,3 (0,051)	-
Centrifugal force I	kN	69-84	74-89	69-84
Centrifugal force II	kN	47-68	56-70	-
Oscillation force	-	77	77	47-68
Type of drive	-	Hydrostatic	Hydrostatic	Hydrostatic
<b>Axle</b>				
Tyre pressure	Kpa	-	-	160
Number of tyres	-	-	-	4
Rozměr pneumatik	-	-	-	11,00x20"16PR
Type of tyres	-	-	-	COMPACTOR
Type of tyres	-	-	-	Tube Type
<b>Watering</b>				
Type of watering	-	Pressure	Pressure	Pressure
Number of pumps	-	2	2	3
Number of filtrations	-	3	3	3

## 6. Lubrication and Maintenance Chart

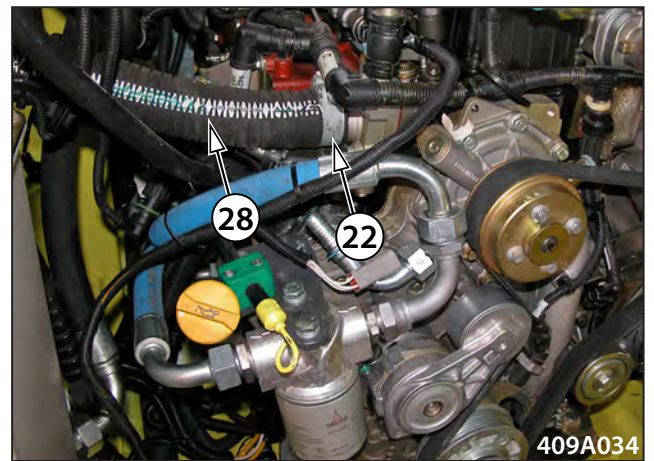
**7.2. Technical data of the manufacturer**

General technical data		
Engine type	Dimension	TCD 3.6 L4
Working principle		Four-stroke diesel engine
Charging		Turbocharger with charge air cooling
Type of cooling		water-cooled
Cylinder arrangement		in series
No. of cylinders		4
Bore/stroke	mm	98/120
Total displacement	cm <sup>3</sup>	3621
Combustion process		Direct injection
Injection system		Common Rail
Exhaust gas recirculation		externally cooled
Exhaust gas aftertreatment		Diesel oxidation catalytic converter DOC
Valves per cylinder		2
Firing order of the engine		1-3-4-2
Direction of rotation looking onto the flywheel		left
Engine power rating according to ISO 3046	kW	see engine rating plate
Speed (nominal revolutions)	min <sup>-1</sup>	see engine rating plate
Injection timing	°BTDC	see engine rating plate
Coolant volume (only engine content without cooler / hoses and pipes) Industrial engines/Agricultural technology	L	4,6/4,6
Permissible continuous coolant temperature	°C	max. 110
Temperature difference between coolant inlet/outlet	°C	8
Start of thermostat opening	°C	88
Thermostat fully open	°C	95
Lubricating oil change volume (with filter)	l	8*
Lube oil temperature in the lube oil tray, maximum	°C	125
Lubricating oil pressure minimum (low idle, engine warm)	kPa/bar	80/0,8
Permissible maximum combustion air temperature after charge air cooler	°C	50
V-belt tension V-belts AVX (width: 13 mm)	N	Pre-tensioning/Re-tensioning 650±50/400±50
V-rib belt tensioning		Automatic tensioning spring-loaded clamping roller
Weight without cooling system according to DIN 70020-A	kg	350

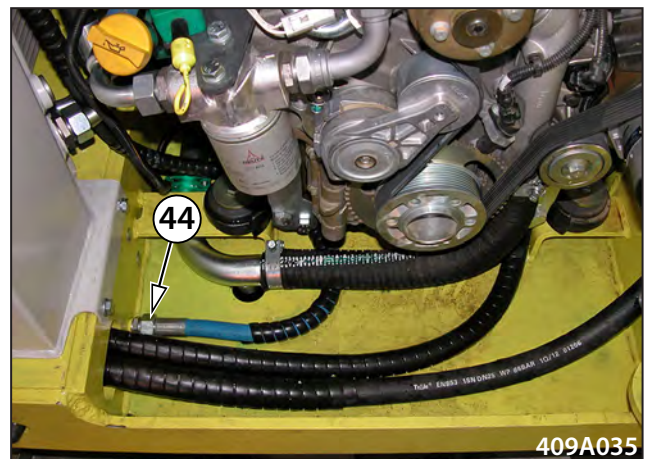
\*specified lubricating oil filling volumes apply for standard versions. In engines which deviate from the standard, for example different lubricating oil pans/dipstick variants and/or special inclined versions, the lubricating oil volume may vary. The lubricating oil dipstick mark is always decisive.



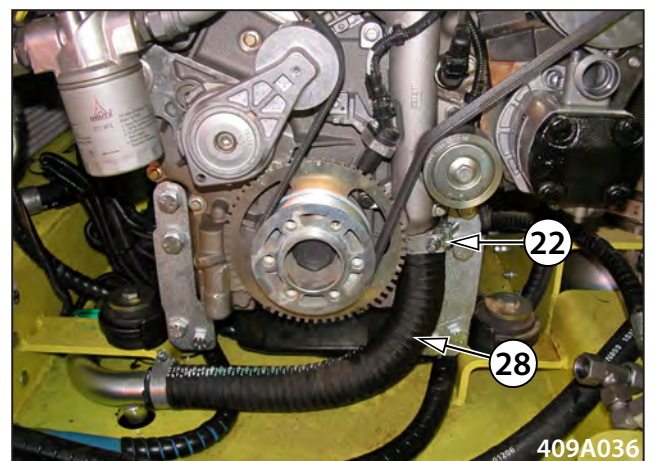
Remove the clips (001-126-22). Remove the hose (001-126-28).



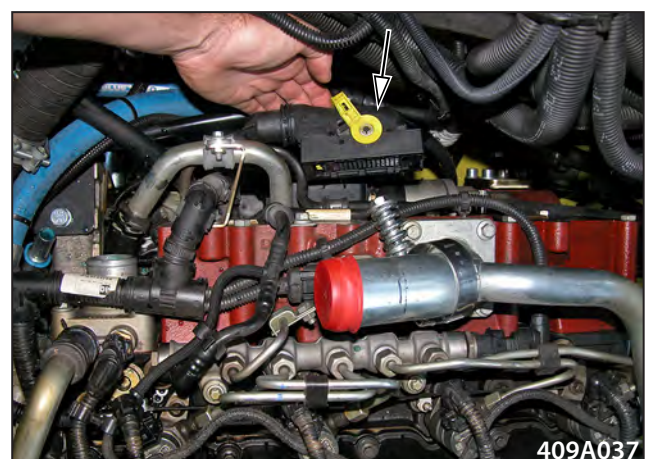
Remove the hose (001-106-44).



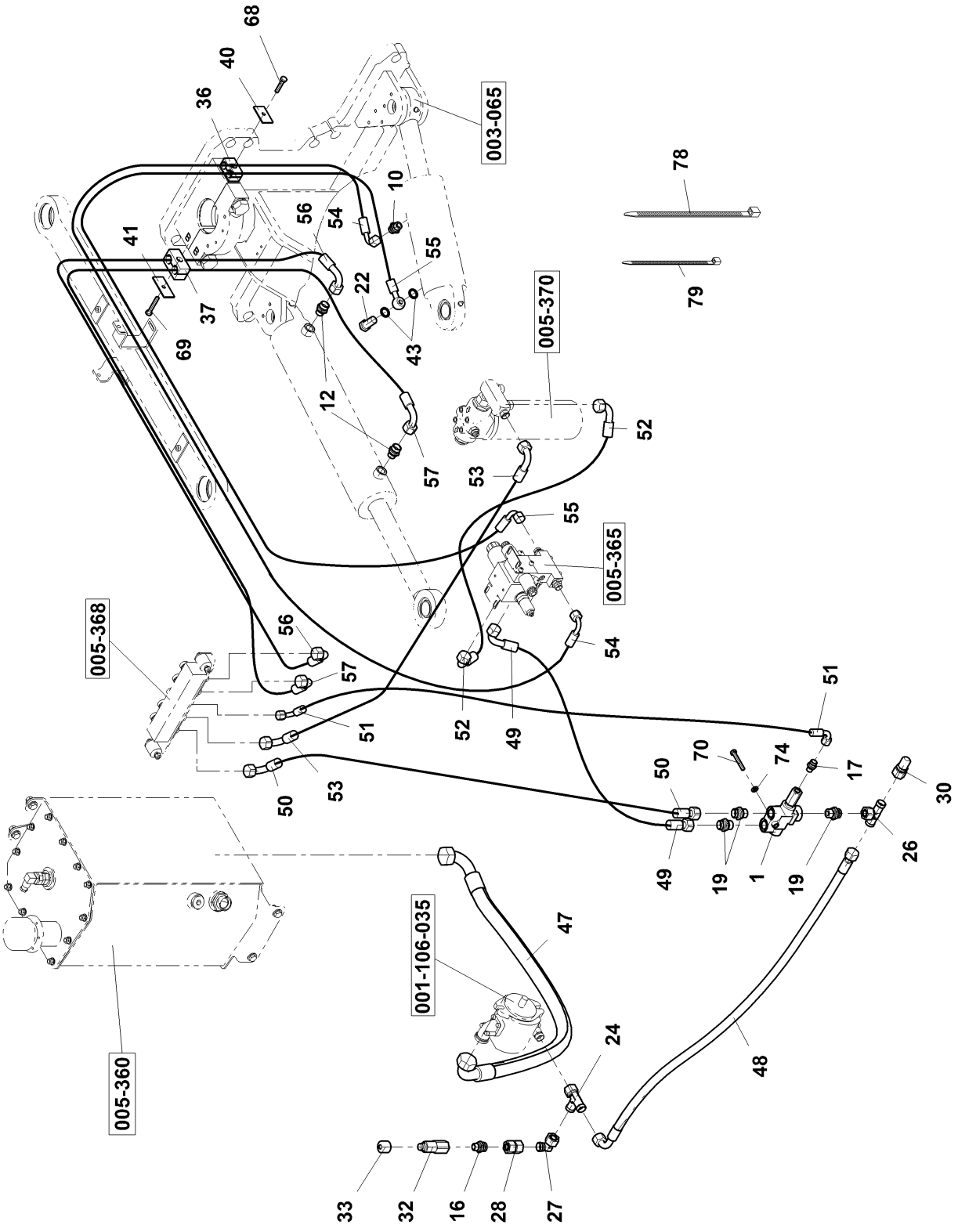
Remove the clip (001-126-22). Remove the hose (001-126-28).



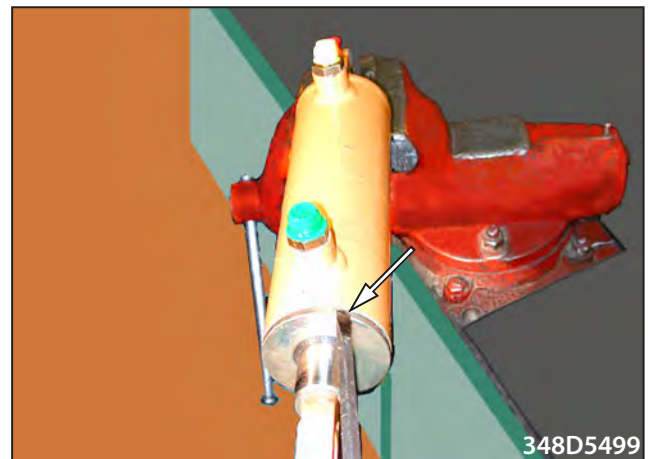
Disconnect the connector from the engine.



# 005-364



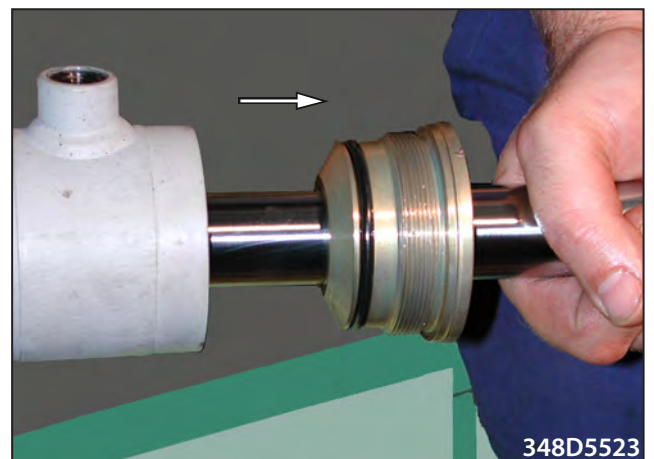
Release the cover of the hydraulic motor.



Remove the cover of the hydraulic motor using the hook wrench.



Take out.



Take out the piston of the hydraulic motor.



Disconnect the hydraulic hose.



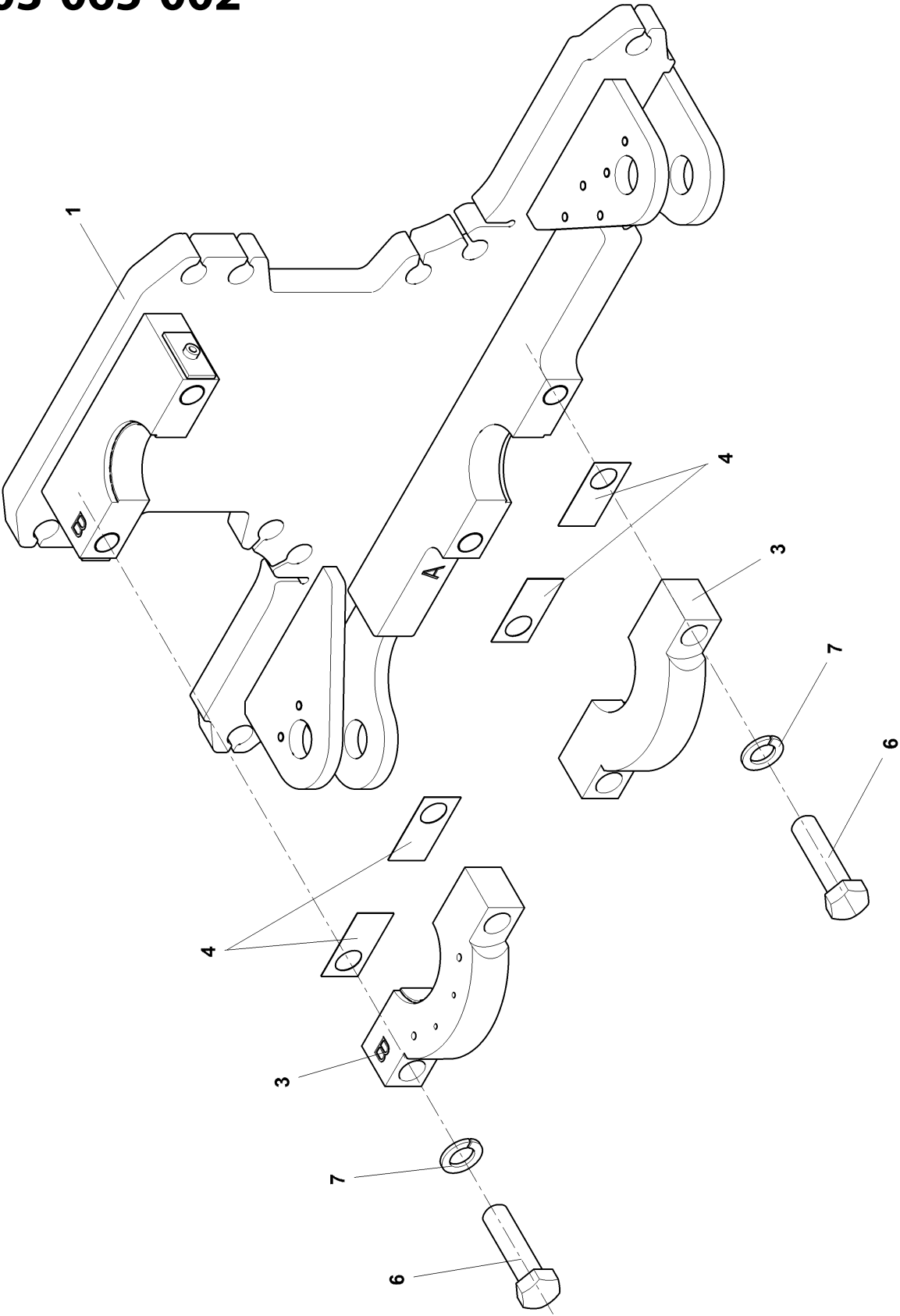
Disconnect the hydraulic hose.



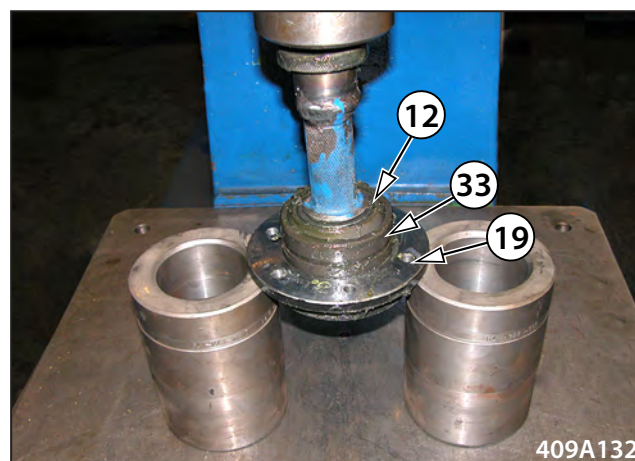
Remove the piping. When reassembling, apply the sealing compound Lukopren S9780 on contact surfaces.



003-065-002



Press out the bush (003-065-12) from the bearing (003-065-3) and the cover (003-065-19).

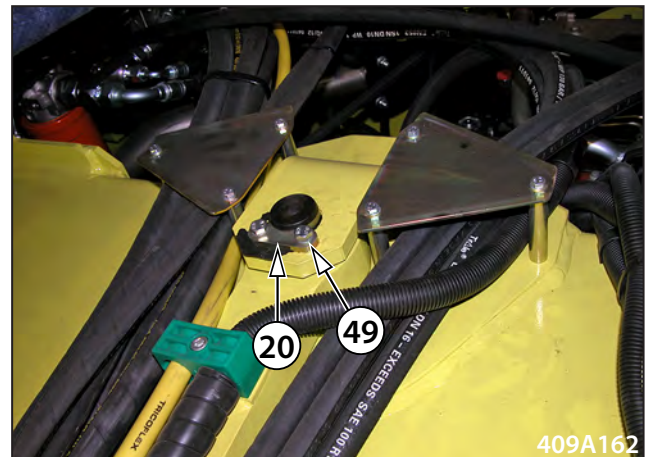




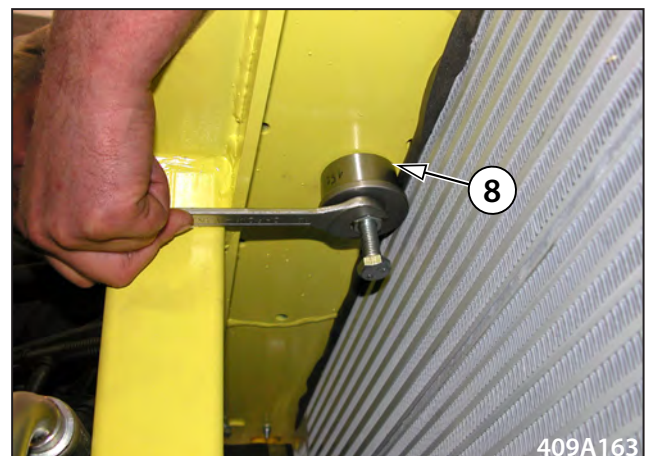
Move the cooler.



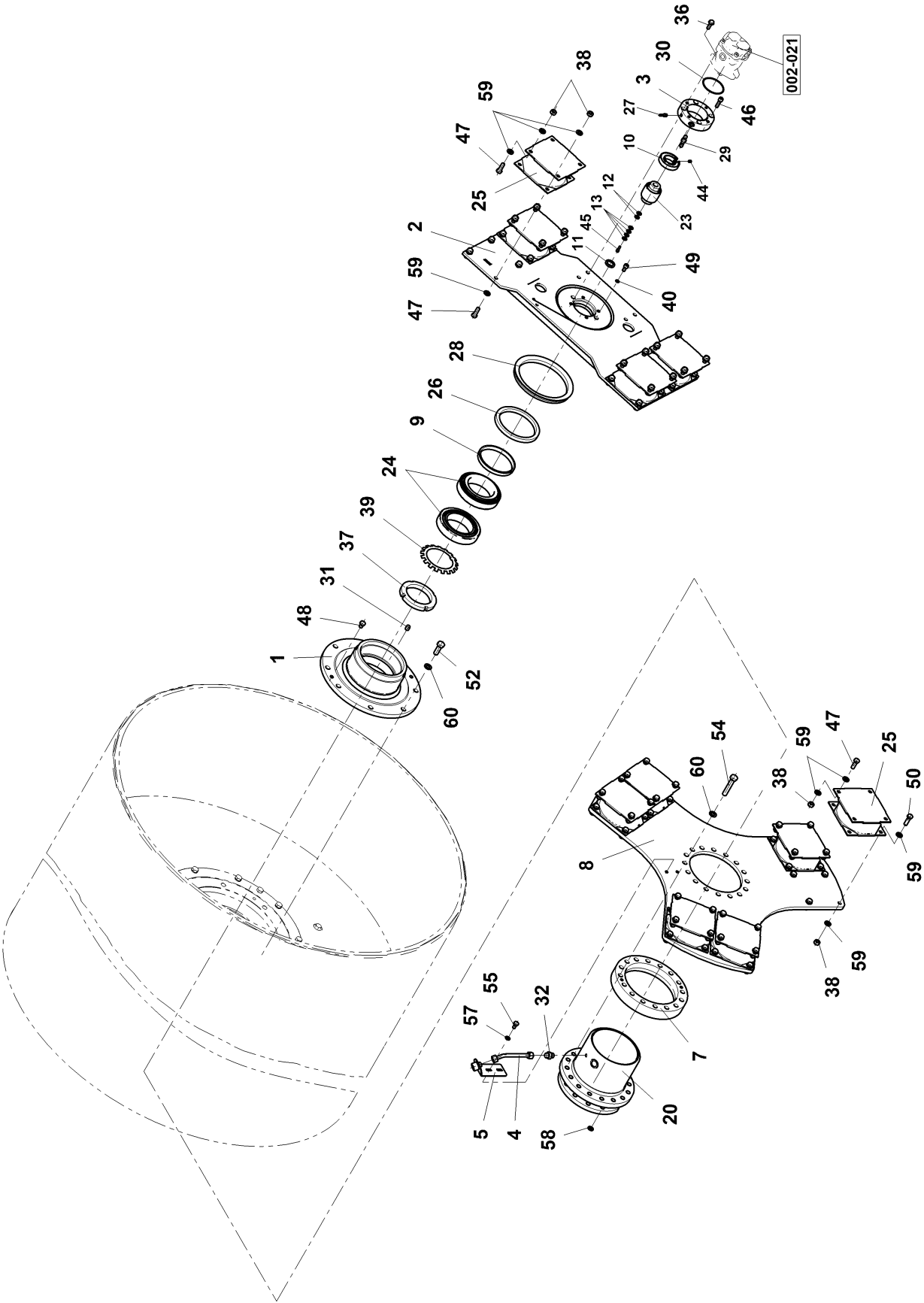
Remove the screws (003-065-49) of the fishplate (003-065-20).



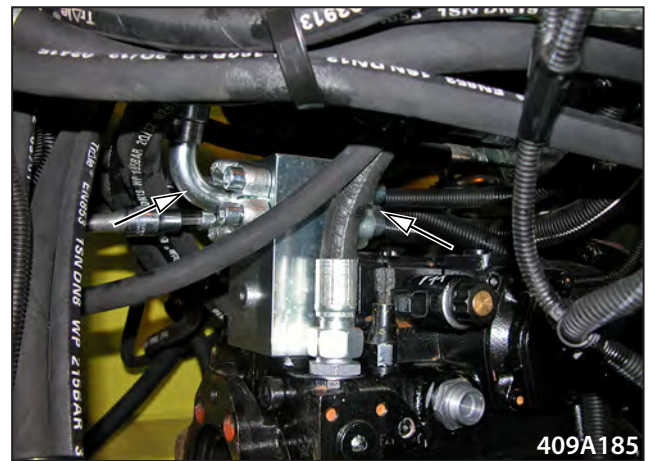
Remove the pin (003-065-8).



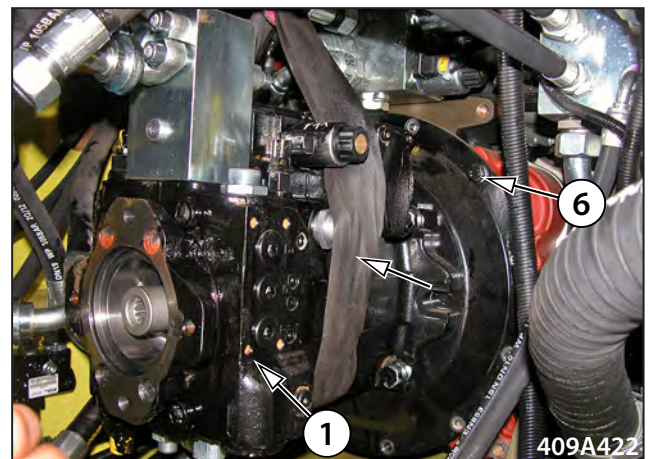
# 002-031



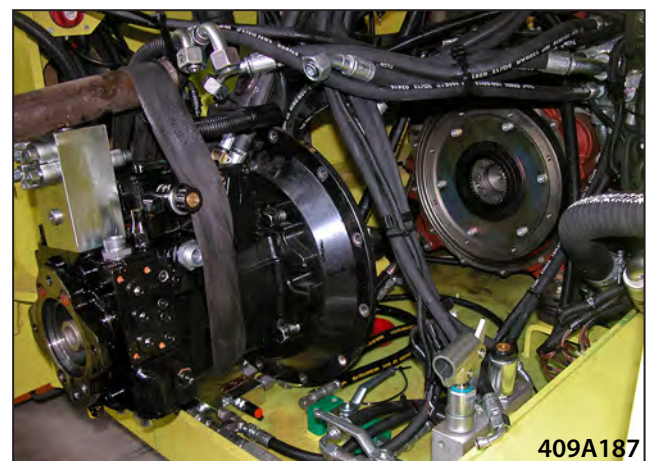
Remove the hydraulic hoses from the cube.



Hang the pump (001-290-1) on the lifting device. Pump weight 110 kg (243 lb). Remove the screws (001-290-6).



Take out the pump.

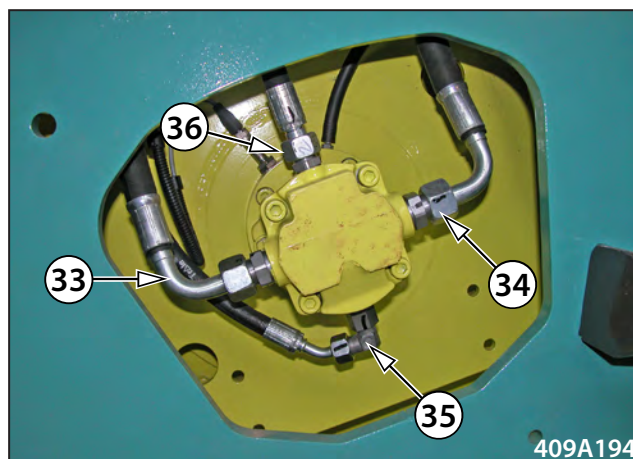


Put the vessel for capturing any leaking fluids under the vibration hydraulic motor.



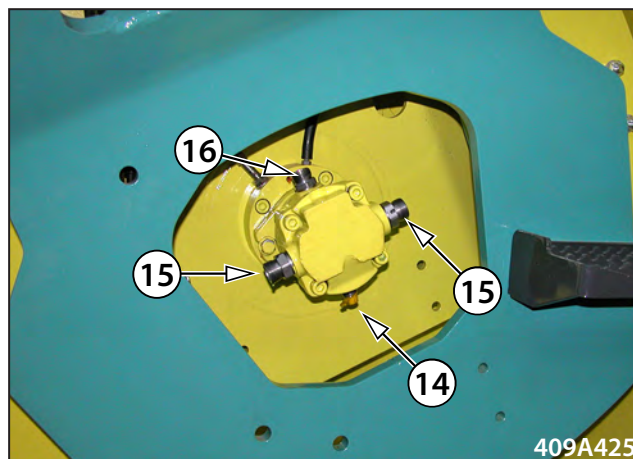
409A193

Remove the hydraulic hoses (005-301-33), (005-301-34), (005-301-35), (005-301-36). Mount the plugs.



409A194

Remove necks (005-301-14), (005-301-15), (005-301-16).

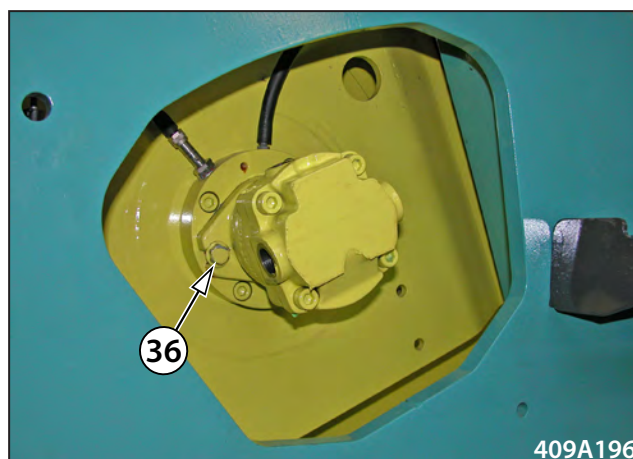


409A425

Remove the screws (002-031-36).

**Note**

Nuts (002-031-36) tighten to torque of 67 Nm (49 lbft) during re-assembly. Secure the screws using adhesive Loctite 262.

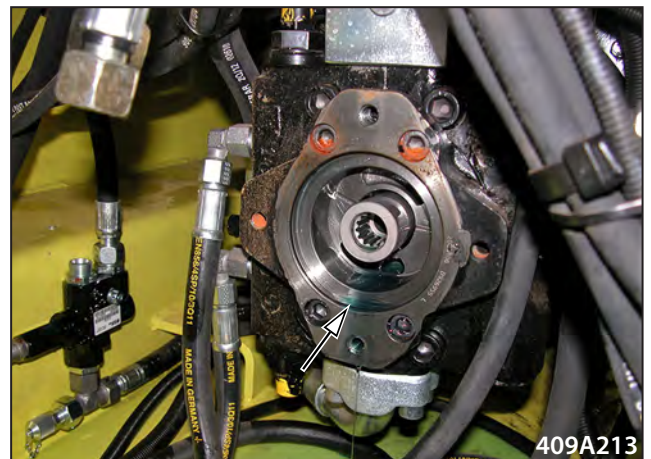


409A196

Take out the pump.

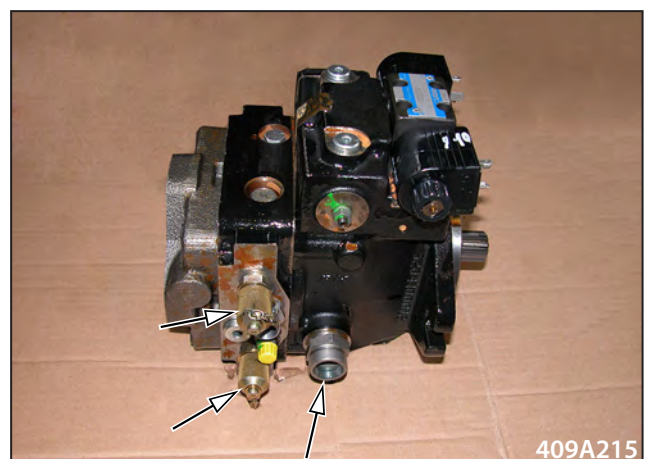
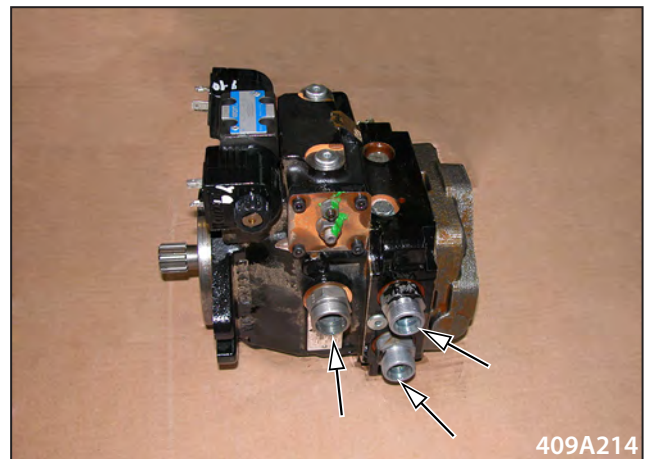


Check the O-ring and replaced it, if damaged.



Remove the necks and measuring points from pump and mount them on a new one.

After restoring the machine to its original state, refill the hydraulic oil to the specified limit.



Lay the sidewall aside.



Roll the drum out and secure it against motion.

Apply the same procedure for removal of front drum.



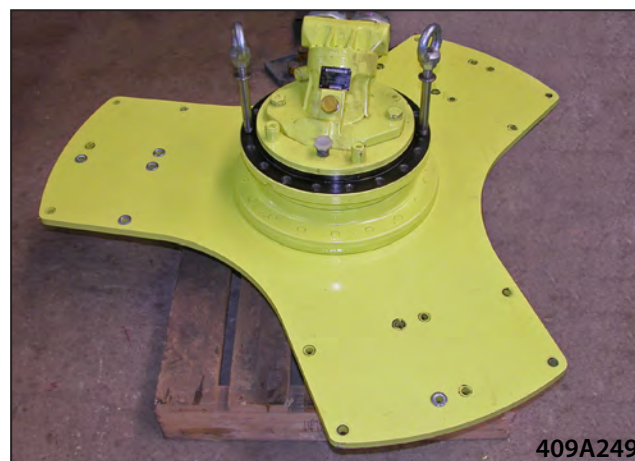
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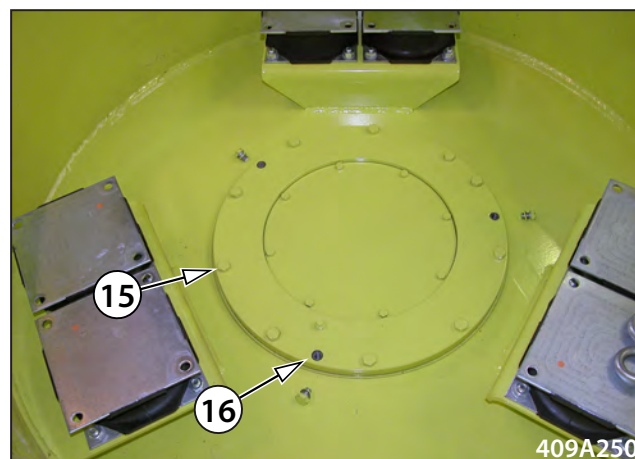
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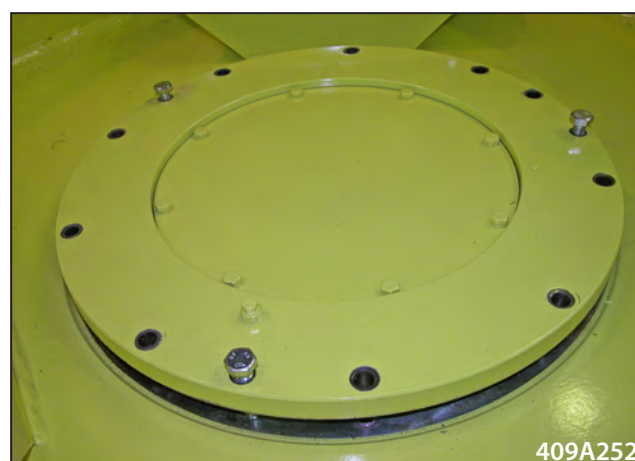
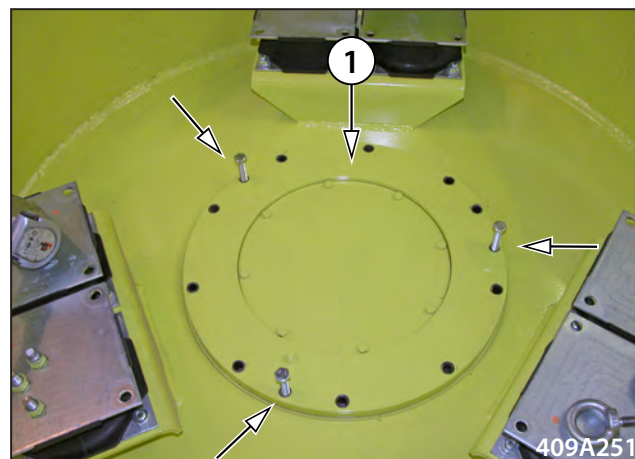
Remove the plugs (002-001-16) and screws (002-001-15).

**Note**

Secure the plugs (002-001-16) and screws (002-001-15) using adhesive 262.

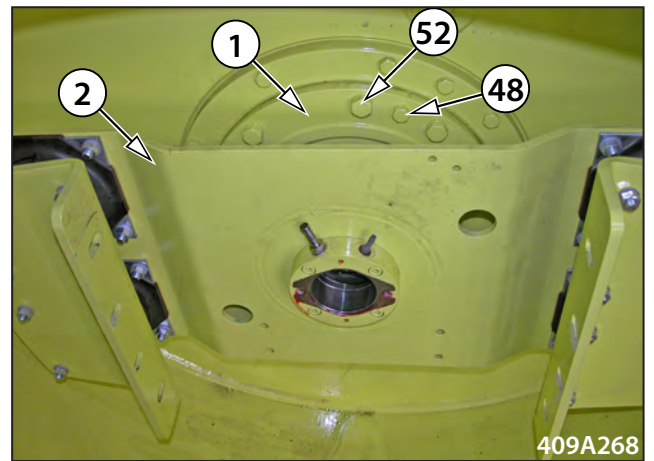


Fit the screws and push the cover away evenly (002-001-1).

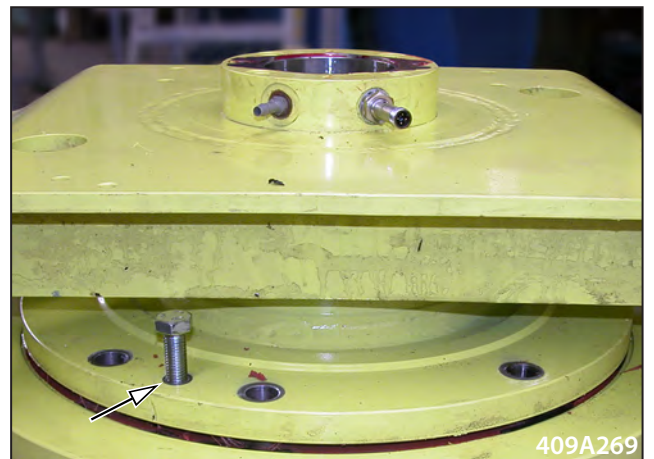


**Note**

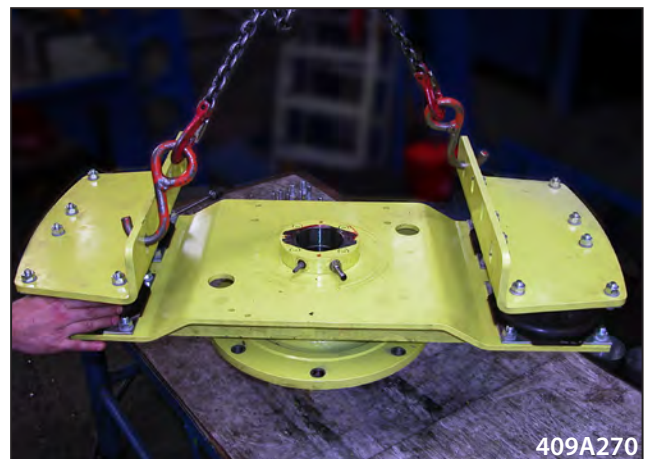
Secure the screws (002-031-52) with the adhesive loctite 262.



Fit the screws and force the flange away evenly (002-031-1).



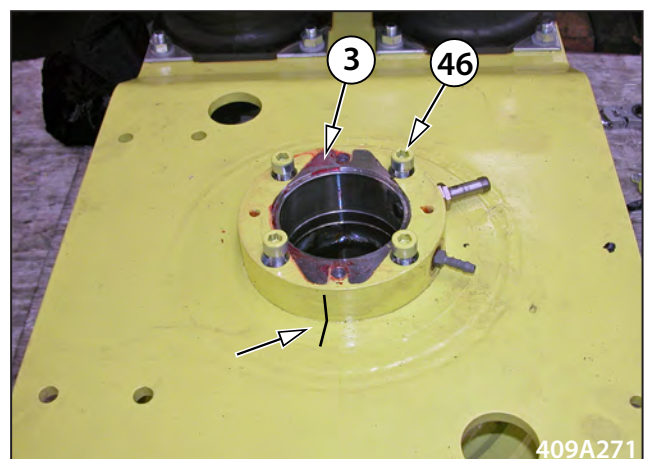
Remove it and lay it aside.



Mark the position of spacer (002-031-3). Remove the screws (002-031-46).

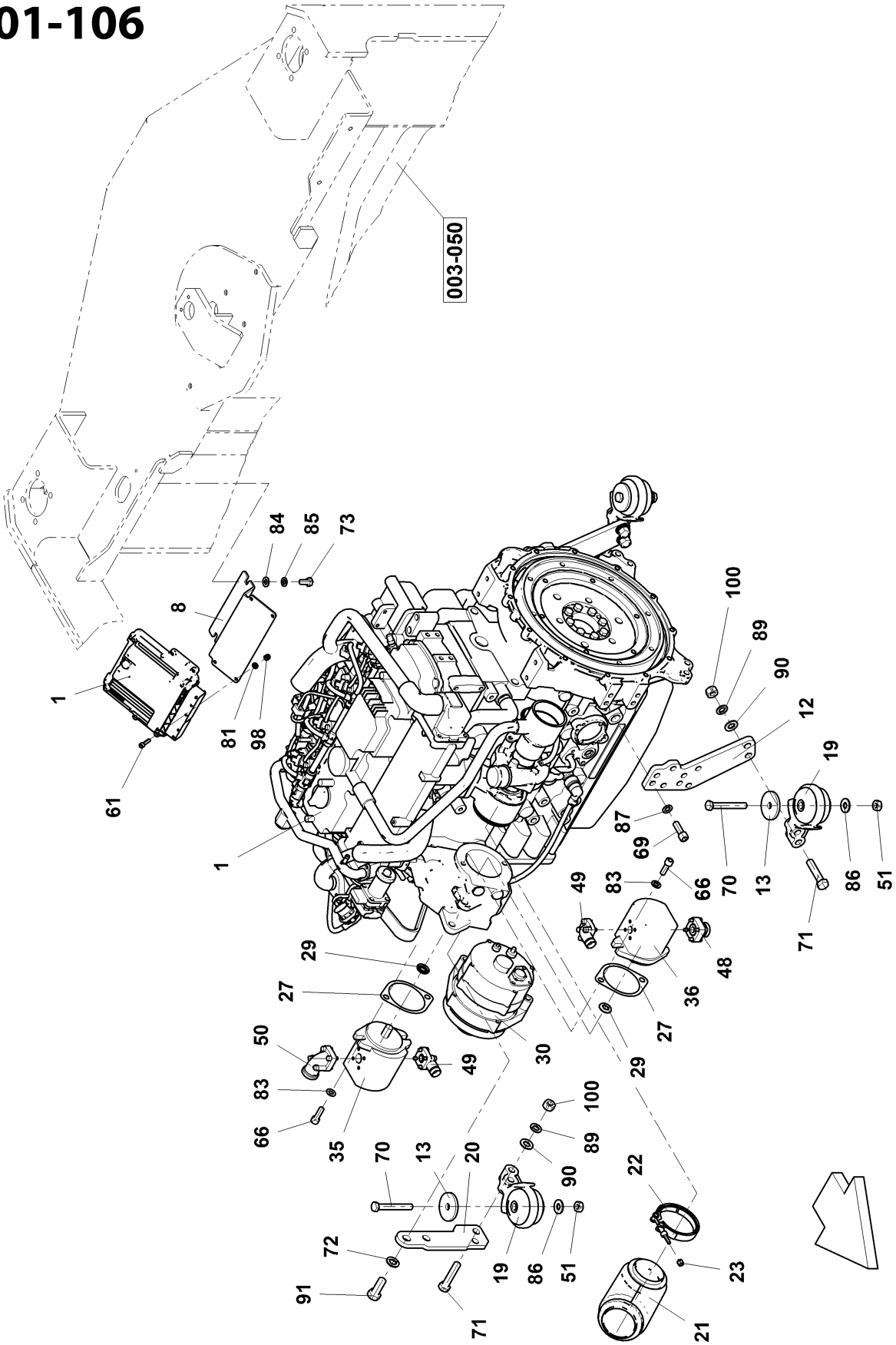
**Remark**

When mounting components on contact surfaces of the spacer (002-031-3), apply the sealing compound Lukopren N1522. The tightening torque of the screws (002-031-46) is 48 Nm (35 lbft). Secure the screws using adhesive Loctite 262.



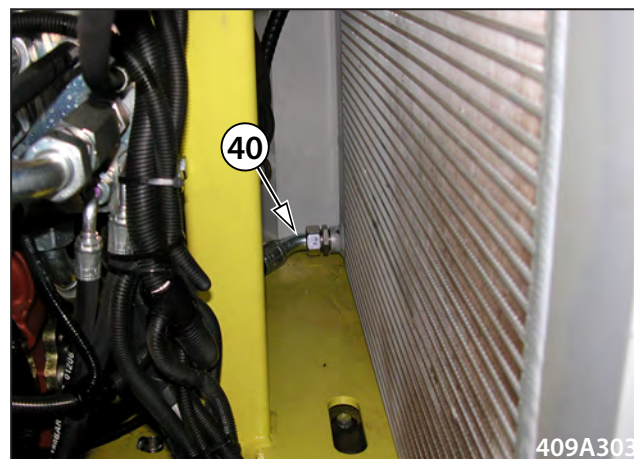
# 11. Cooling

# 001-106

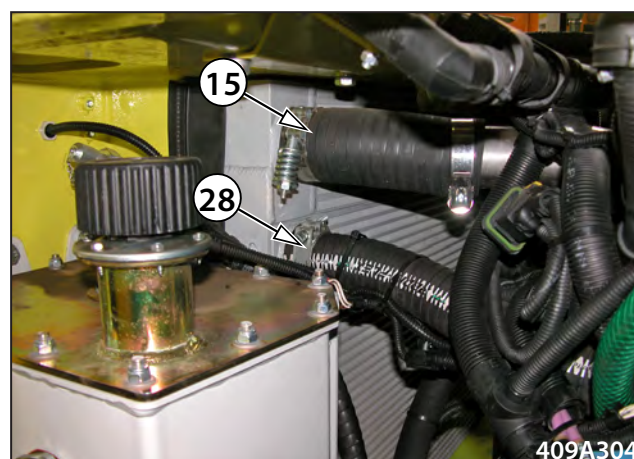


4-16093A

Remove the hydraulic hose (005-370-40).



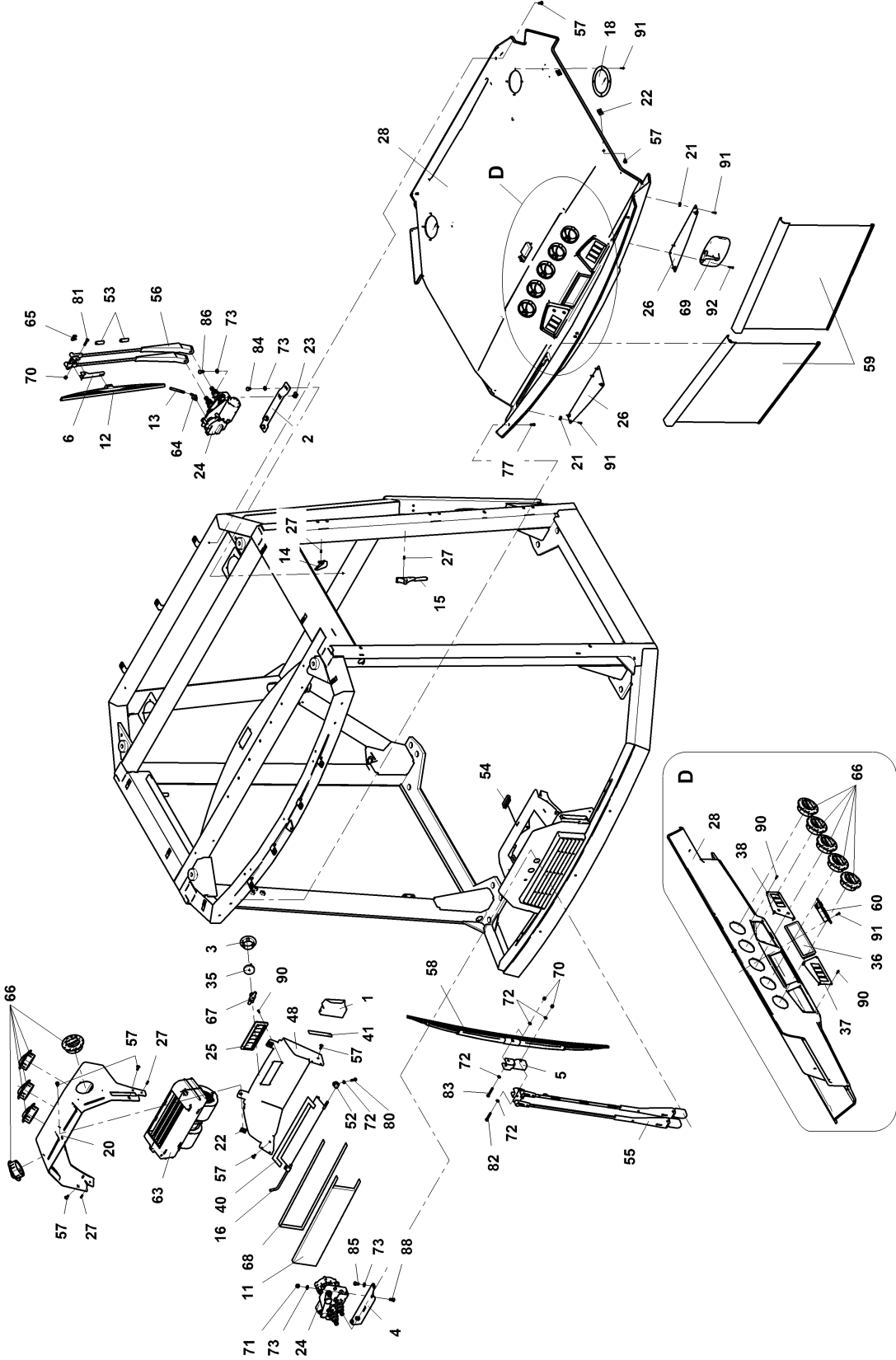
Remove the piping (001-126-28), (001-126-15).



Remove the brake block. Take off.



004-160-002



4-1235037B

Remove the bars on both sides.

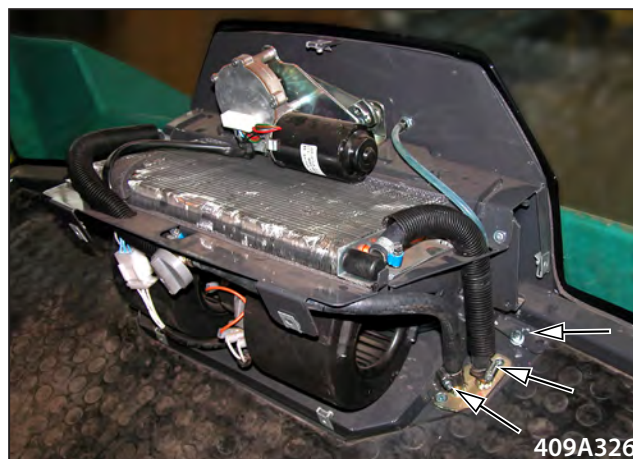


Remove the cover.



Remove the heating hoses.

Remove the screws fixing the cab.



Remove the screws and mount the lifting lugs (4) Hang the cab on the crane of sufficient load capacity. Cab weight 540 kg (1190 lb).



Disconnect the connector.



Disconnect the connector.



Disconnect the connector.



Remove the cover (004-150-10).

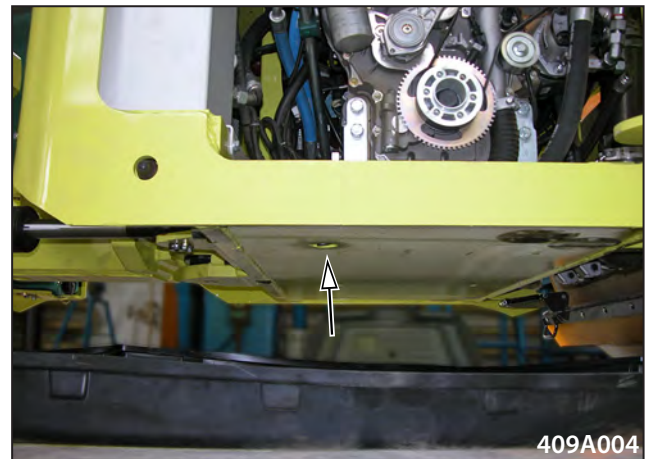


Complete the following tasks before disassembly:

12.4. Remove the machine cab

Drain the coolant.

Drained volume 23 l (6.1 gal US).



Remove the cover (004-151-045).



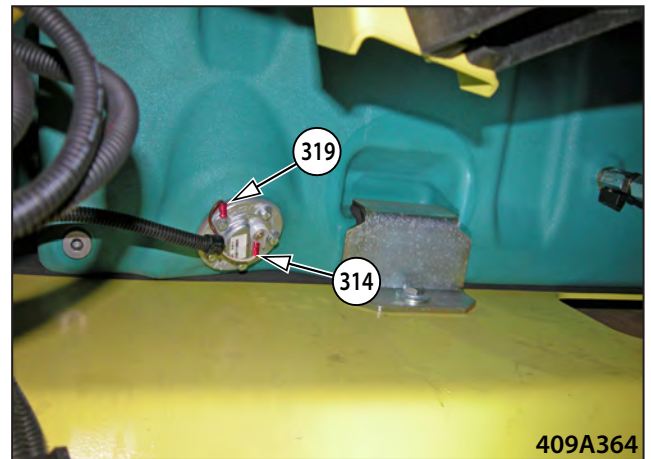
Disconnect the connector X11.



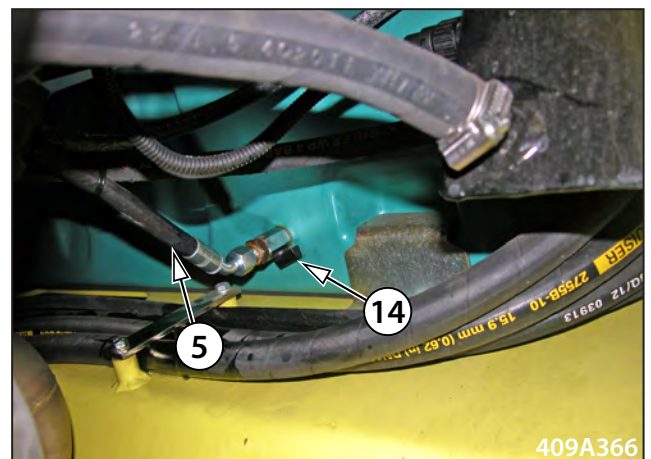
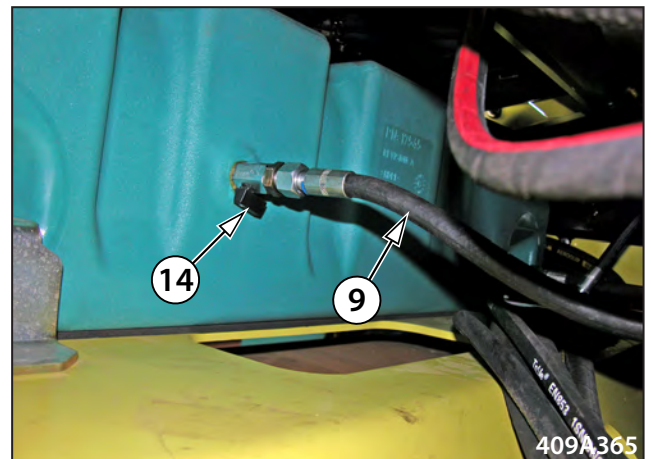
Disconnect the connector.



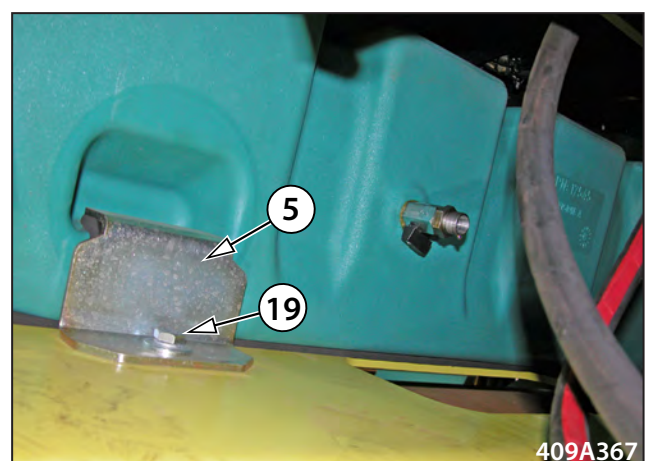
Drain the fuel from the tank. Drained volume 220 l (58,1 gal US).  
Disconnect the wire 319 a 341 from the fuel indicator.



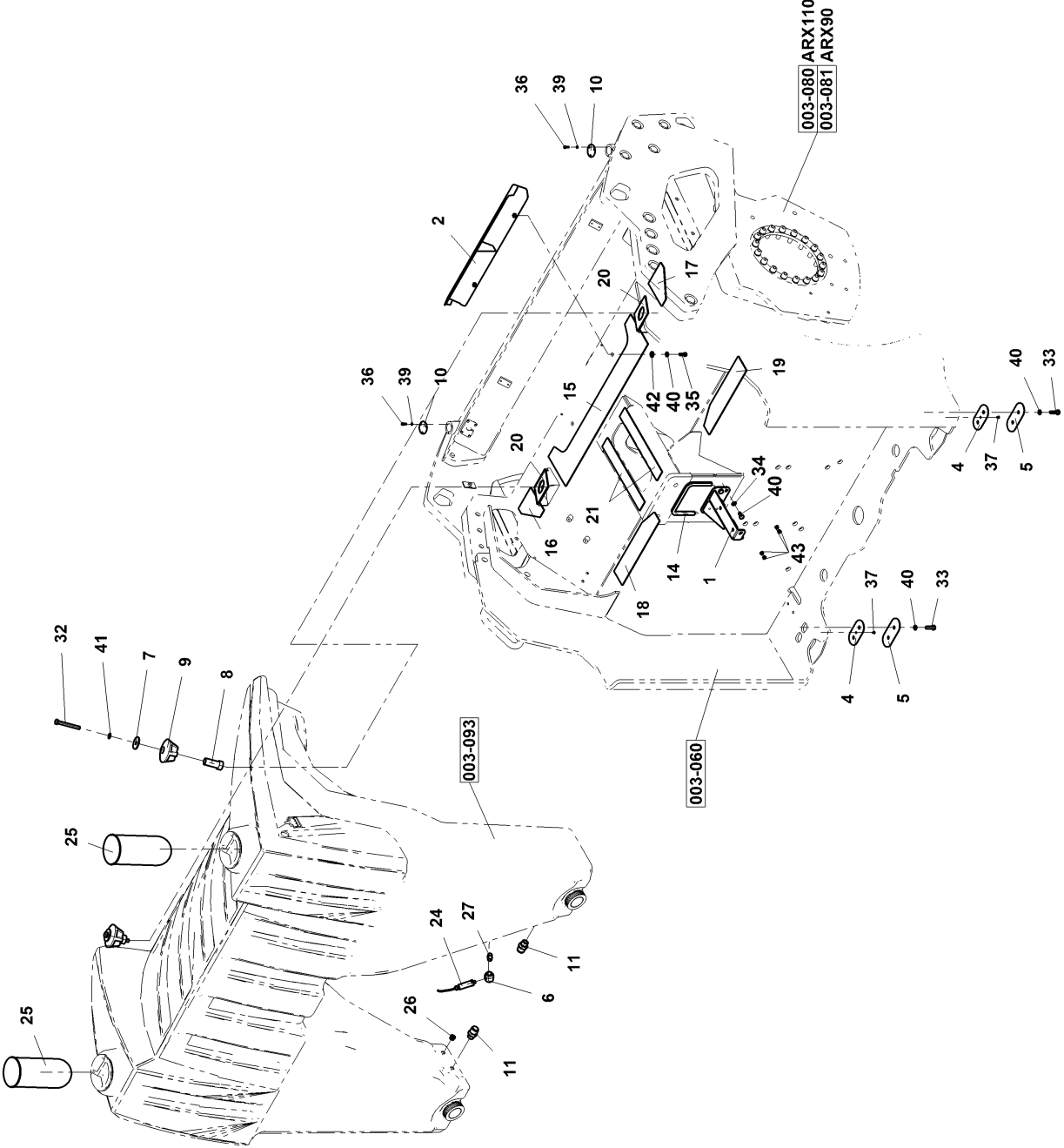
Close the fuel valves (001-110-14). Remove the hoses (001-110-5), (001-110-9).



Remove the screws (003-251-19) of the holders (003-251-5).



003-061




### 15.3. Fuse positioning

It contains F1 - F28 fuses.

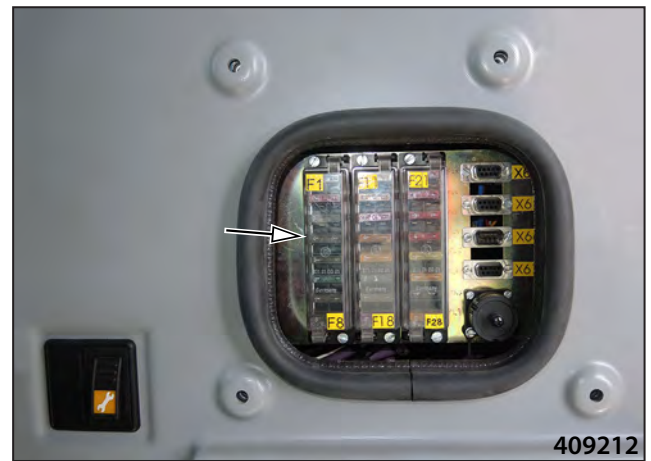
- F1 - 15A ..... Mounting socket
- F2 - 10A ..... front parking lights, front headlamps, rear lights
- F3 - 7.5A ..... rear headlamps
- F4 - 7.5A ..... turn indicators, beacon, horn, cab lighting, coil of engine time relay (A10)
- F5 - 7.5A ..... switch box, lighting relay coils
- F6 - 35A ..... power supply of computer Rexroth RC20-10/30
- F7 - 7.5A ..... seat control
- F8 - 7.5A (15A). working lights, drum lighting
- F11 - 5A ..... drum sensors (speed, frequency), el. magnets of vibration, water level sensor, infrathermometer, emulsion sprinkling relay
- F12 - 5A ..... Telematic, Green beacon
- F13 - 10A ..... water sprinkling, emulsion sprinkling
- F14 - 5A ..... brake lights, reverse horn, alternator excitation
- F15 - 5A ..... total STOP, service mode
- F16 - 1A ..... memory of computer Rexroth RC20-10/30
- F17 - 7.5A ..... lever Gessmann, display, diagnostic socket of engine
- F18 ..... Reserve
- F21 - 10A ..... autoradio
- F22 - 10A ..... rear window heating control, air-conditioning relay
- F23 - 10A ..... wipers, screen washers
- F24 - 10A ..... heating fans
- F25 - 20A ..... rear window heating
- F26 - 10A ..... front working lights
- F27 - 15A ..... spreader
- F28 - 5A ..... compaction modul, GPS

#### In the engine compartment

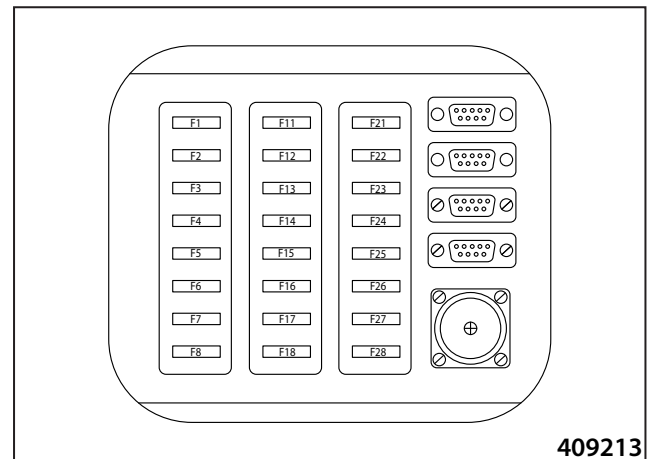
- F30 - 80 A ..... Main fuse
- F31 - 15 A ..... Engine fuse
- F32 - 15 A ..... Air-conditioning fuse
- F33 - 10 A ..... Fuel pump fuse
- F34 ..... Reserve
- F35 ..... Reserve
- F36 - 15 A ..... Memory power supply fuse
- F40 - 70 A ..... Heating fuse



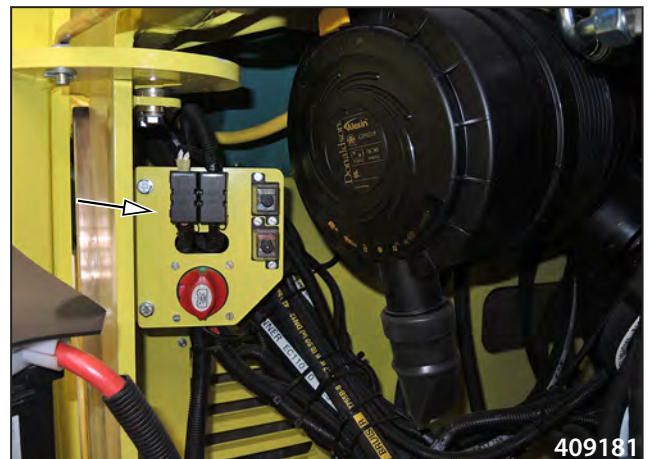
**Always replace the fuses with the ones of identical value!**



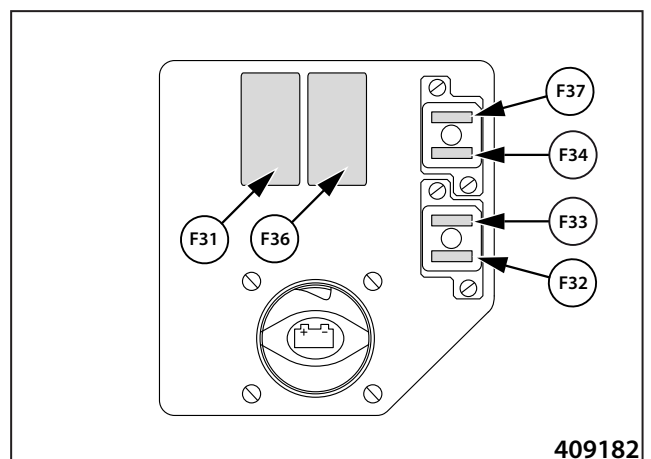
409212



409213



409181



409182

## RIGHT ARM REST

### Travel lever removal

Dismount the cover.



Disconnect the connectors X1, X2, X3, X4.

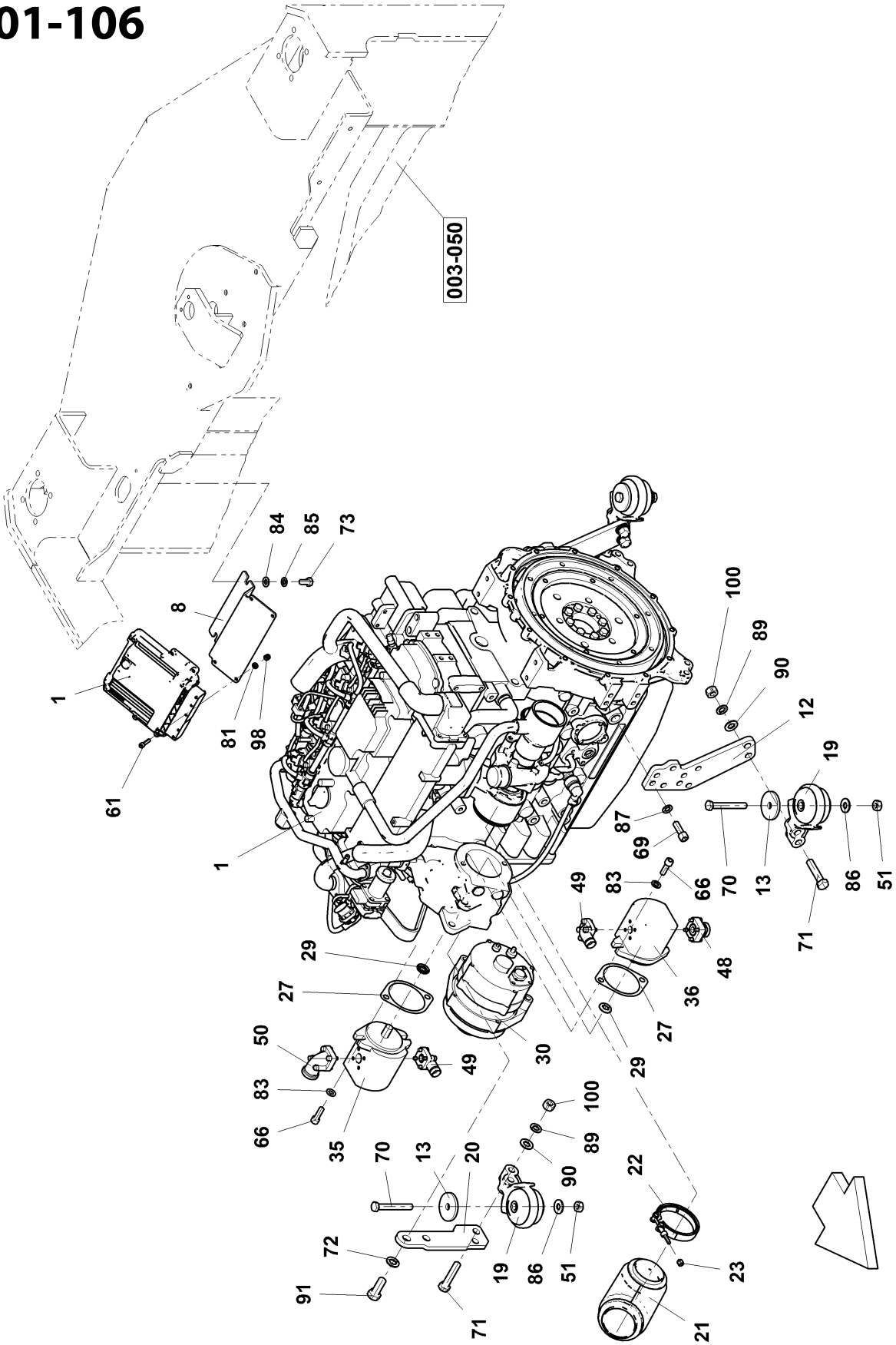


Dismount the screws.

Remove the lever.



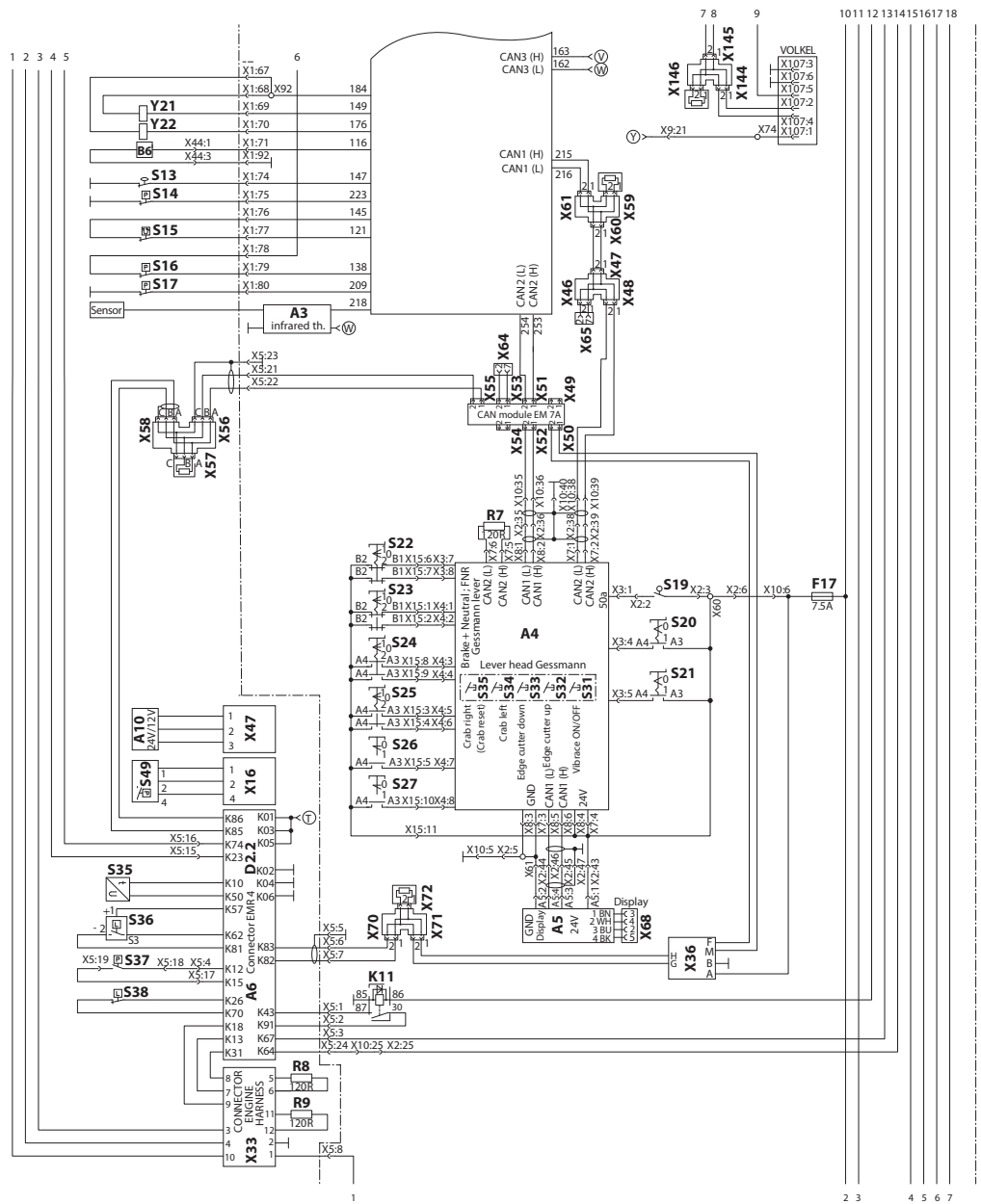
001-106



- CRAB LEFT (Y21)
- CRAB RIGHT (Y22)
- FUEL LEVEL GAUGE (B6)
- HYDRAULIC OIL LEVEL (S13)
- HYDRAULIC OIL TEMPERATURE (S14)
- HYDRAULIC OIL TEMPERATURE (S15)
- WATER LEVEL IN THE WATER (S16)
- HYDRAULIC OIL FILTER 1 (S17)

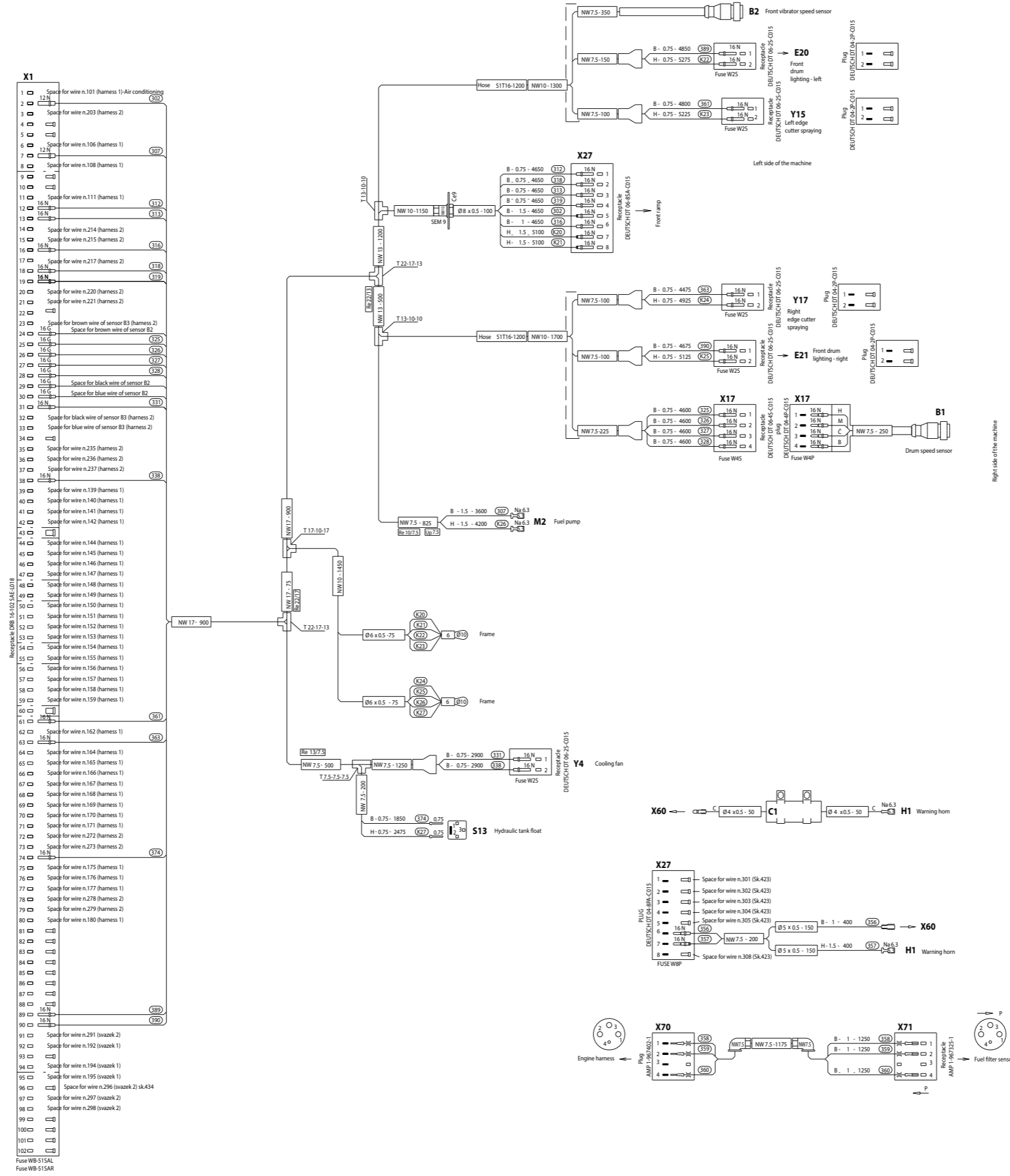
- FRONT VIBRATION (S22)
- REAR VIBRATION (S22)
- SEAT SWITCH (S19)
- STEERING MODE - FRONT (S23)
- STEERING MODE - REAR (S23)
- VIBRATION MAN/AUTO. (S20)
- EDGE CUTTER 1 (S24)
- EDGE CUTTER 2 (S24)
- VIBRATION HIGH/LOW (S21)
- SPRINKLING 1 (S25)
- SPRINKLING 2 (S25)
- WATER SPRINKLING (S26)
- FUEL FILTER SENSOR (S49)
- EMULSION SPRINKLING (S27)

- SUCTION AIR TEMPERATURE (S35)
- COOLANT LEVEL (S36)
- ENGINE AIR FILTER (S37)
- WATER SENSOR IN FUEL (S38)



# ARX90 Tier 3 CABLE HARNESS #3 - Wiring system Part Number 4-107947 (version B)

# 3.1



- X1**
- 1 □ Space for wire n.101 (harness 1)-Air conditioning (302)
  - 2 □ Space for wire n.203 (harness 2)
  - 3 □
  - 4 □
  - 5 □ Space for wire n.106 (harness 1)
  - 6 □
  - 7 □
  - 8 □ Space for wire n.108 (harness 1)
  - 9 □
  - 10 □
  - 11 □ Space for wire n.111 (harness 1)
  - 12 □ Space for wire n.111 (harness 1) (312)
  - 13 □ Space for wire n.111 (harness 1) (313)
  - 14 □ Space for wire n.214 (harness 2)
  - 15 □ Space for wire n.215 (harness 2) (310)
  - 16 □ Space for wire n.215 (harness 2) (319)
  - 17 □ Space for wire n.217 (harness 2) (318)
  - 18 □ Space for wire n.217 (harness 2) (319)
  - 19 □
  - 20 □ Space for wire n.220 (harness 2)
  - 21 □ Space for wire n.221 (harness 2)
  - 22 □
  - 23 □ Space for brown wire of sensor B3 (harness 2)
  - 24 □ Space for brown wire of sensor B2 (325)
  - 25 □
  - 26 □
  - 27 □
  - 28 □
  - 29 □ Space for black wire of sensor B2
  - 30 □ Space for blue wire of sensor B2
  - 31 □
  - 32 □ Space for black wire of sensor B3 (harness 2)
  - 33 □ Space for blue wire of sensor B3 (harness 2)
  - 34 □
  - 35 □ Space for wire n.235 (harness 2)
  - 36 □ Space for wire n.236 (harness 2)
  - 37 □ Space for wire n.237 (harness 2) (338)
  - 38 □
  - 39 □ Space for wire n.139 (harness 1)
  - 40 □ Space for wire n.140 (harness 1)
  - 41 □ Space for wire n.141 (harness 1)
  - 42 □ Space for wire n.142 (harness 1)
  - 43 □
  - 44 □ Space for wire n.144 (harness 1)
  - 45 □ Space for wire n.145 (harness 1)
  - 46 □ Space for wire n.146 (harness 1)
  - 47 □ Space for wire n.147 (harness 1)
  - 48 □ Space for wire n.148 (harness 1)
  - 49 □ Space for wire n.149 (harness 1)
  - 50 □ Space for wire n.150 (harness 1)
  - 51 □ Space for wire n.151 (harness 1)
  - 52 □ Space for wire n.152 (harness 1)
  - 53 □ Space for wire n.153 (harness 1)
  - 54 □ Space for wire n.154 (harness 1)
  - 55 □ Space for wire n.155 (harness 1)
  - 56 □ Space for wire n.156 (harness 1)
  - 57 □ Space for wire n.157 (harness 1)
  - 58 □ Space for wire n.158 (harness 1)
  - 59 □ Space for wire n.159 (harness 1)
  - 60 □
  - 61 □ Space for wire n.162 (harness 1) (361)
  - 62 □
  - 63 □
  - 64 □ Space for wire n.164 (harness 1)
  - 65 □ Space for wire n.165 (harness 1)
  - 66 □ Space for wire n.166 (harness 1)
  - 67 □ Space for wire n.167 (harness 1)
  - 68 □ Space for wire n.168 (harness 1)
  - 69 □ Space for wire n.169 (harness 1)
  - 70 □ Space for wire n.170 (harness 1)
  - 71 □ Space for wire n.171 (harness 1)
  - 72 □ Space for wire n.272 (harness 2)
  - 73 □ Space for wire n.273 (harness 2) (374)
  - 74 □
  - 75 □ Space for wire n.175 (harness 1)
  - 76 □ Space for wire n.176 (harness 1)
  - 77 □ Space for wire n.177 (harness 1)
  - 78 □ Space for wire n.278 (harness 2)
  - 79 □ Space for wire n.279 (harness 2)
  - 80 □ Space for wire n.180 (harness 1)
  - 81 □
  - 82 □
  - 83 □
  - 84 □
  - 85 □
  - 86 □
  - 87 □
  - 88 □
  - 89 □
  - 90 □
  - 91 □ Space for wire n.291 (svazek 2)
  - 92 □ Space for wire n.192 (svazek 1)
  - 93 □
  - 94 □ Space for wire n.194 (svazek 1)
  - 95 □ Space for wire n.195 (svazek 1)
  - 96 □ Space for wire n.296 (svazek 2) sk.434
  - 97 □ Space for wire n.297 (svazek 2)
  - 98 □ Space for wire n.298 (svazek 2)
  - 99 □
  - 100 □
  - 101 □
  - 102 □
- Fuse WB-515AL  
Fuse WB-515AR

### CABLE HARNESS LEGEND:

- Faston
  - Ring tongue
  - Wire ferrule
  - Butt splice
  - Contact
  - Sealing plug
  - Single wire seal
  - Lock nut
  - No.6.3 Insulation sleeve
  - Clip
  - Reducer
  - Clamp
  - T-Manifold
  - Conduit gland SEM straight
  - Faston connector
  - DIN connector
  - DIN connector
  - Receptacle connector
  - Plug connector
- Wire:**
- Wire color → R-1-1200 (100) → Square mm → Length → Wire number
- Cable:**
- H03W-F2X0.75-2500 → Type → Length
- Corrugated tube:**
- NW13-700 → Type → Length

### TABLE OF COLOR SYMBOLS:

WH	B	White
BK	C	Black
BN	H	Brown
BU	M	Blue
RD	R	Red
GY	S	Grey
YE	Y	Yellow
GN	Z	Green

**ARX90 Tier 3  
CABLE HARNESS - Lights  
Part Number 4-212021**

**9.2**

**CABLE HARNESS LEGEND:**

**Wire:**  
R - 1 - 1200 (100)  
Wire color    Square mm    Length    Wire number

**Cable:**  
H03VV-F2X0.75 - 2500  
Type    Length



































**Corrugated tube:**  
NW13 - 700  
Type    Length

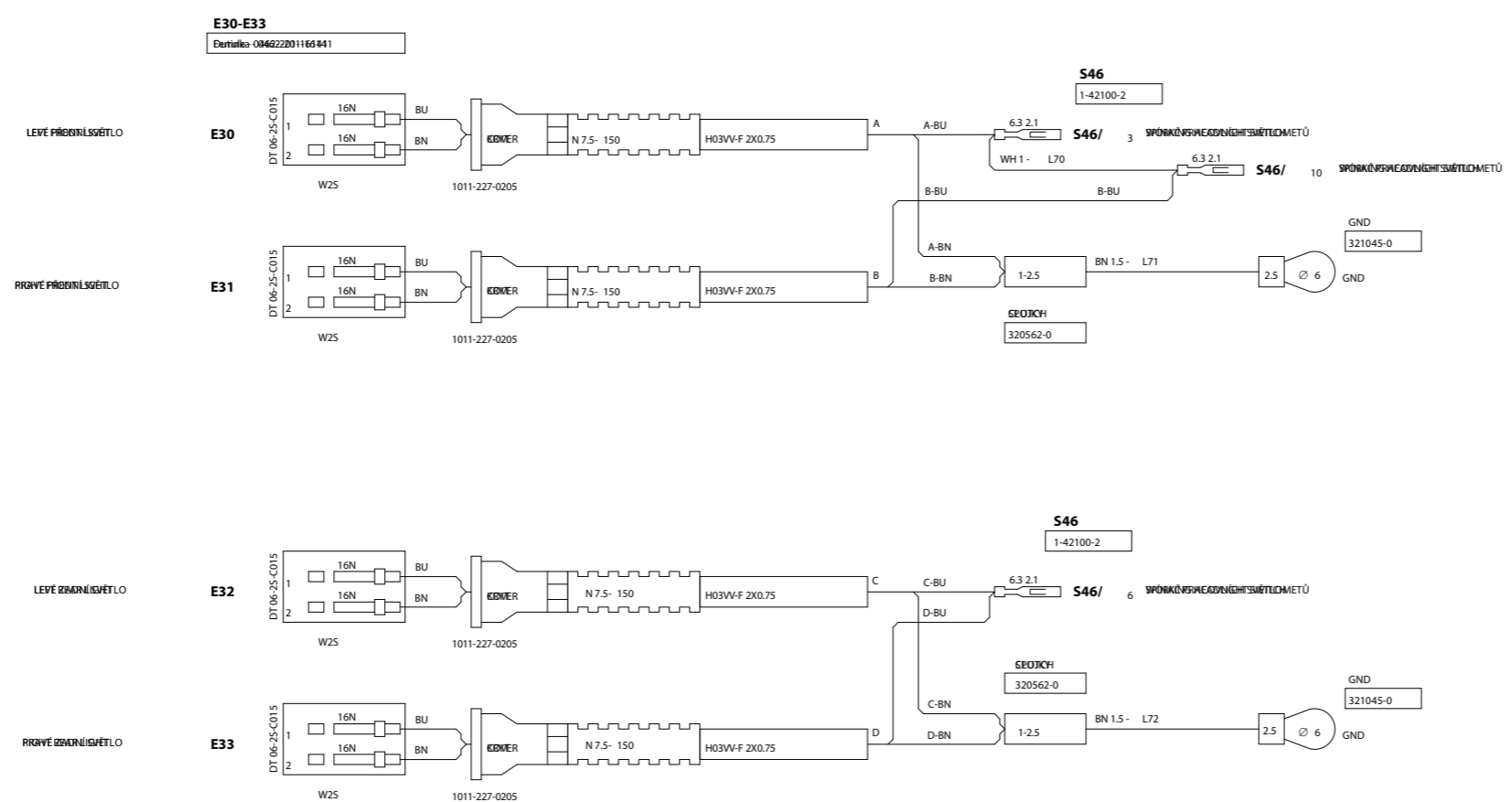
Ⓟ	X23.2/C	(200)	COUPLER	WH-0.75-50
	X26/1	(201)	X22.2/C	WH-0.75-625
	X26/2	(202)	X22.1/1	WH-0.75-625
	X26/3	(203)	X22.2/B	WH-0.75-625
	X26/4	(204)	X23.2/B	WH-0.75-1600
	X26/5	(205)	X18/1	WH-0.75-450
	X26/6	(206)	E8/568	WH-1.5-600
	E8/31	(207)	GND	BN-1-900
	X26/8	(208)	GND	BN-1.5-700
	X26/9	(209)	GND	BN-1.5-700
	X26/10	(210)	X18/2	BN-0.75-450
	X26/11	(211)	COUPLER	WH-0.75-1600
	X26/12	(212)	X23.1/1	WH-0.75-1600
	X22.2/A	(213)	E8/31	BN-0.75-475
	E7/568	(214)	E8/568	WH-1-1800
Ⓟ	X16/1	(215)	COUPLER	WH-0.75-775
	X16/2	(216)	GND	BN-0.75-1475
	E7/31	(217)	GND	BN-1-1625
	X23.2/A	(218)	E7/31	BN-0.75-475
	X23.1/2	(219)	GND	BN-0.75-1675
	X22.1/2	(220)	GND	BN-0.75-950
	X27/1	(301)	X25.2/1	WH-0.75-600
	X27/2	(302)	X25.1/1	WH-0.75-600
	X27/3	(303)	X24.2/1	WH-0.75-1725
	X27/4	(304)	X24.1/1	WH-0.75-1725
	X27/5	(305)	E5/568	WH-1.5-550
	X27/8	(308)	GND	BN-1.5-675
	E5/31	(309)	GND	BN-1-800
	X25.2/2	(313)	E5/31	BN-0.75-475
	E5/568	(314)	E6/568	WH-1-1925
	E6/31	(316)	GND	BN-1-1650
	X24.2/2	(317)	E6/31	BN-0.75-475
	X25.1/2	(318)	GND	BN-0.75-850
	X24.1/2	(319)	GND	BN-0.75-1725

**TABLE OF COLOR SYMBOLS:**

WH	B	White
BK	C	Black
BN	H	Brown
BU	M	Blue
RD	R	Red
GY	S	Grey
YE	Y	Yellow
GN	Z	Green

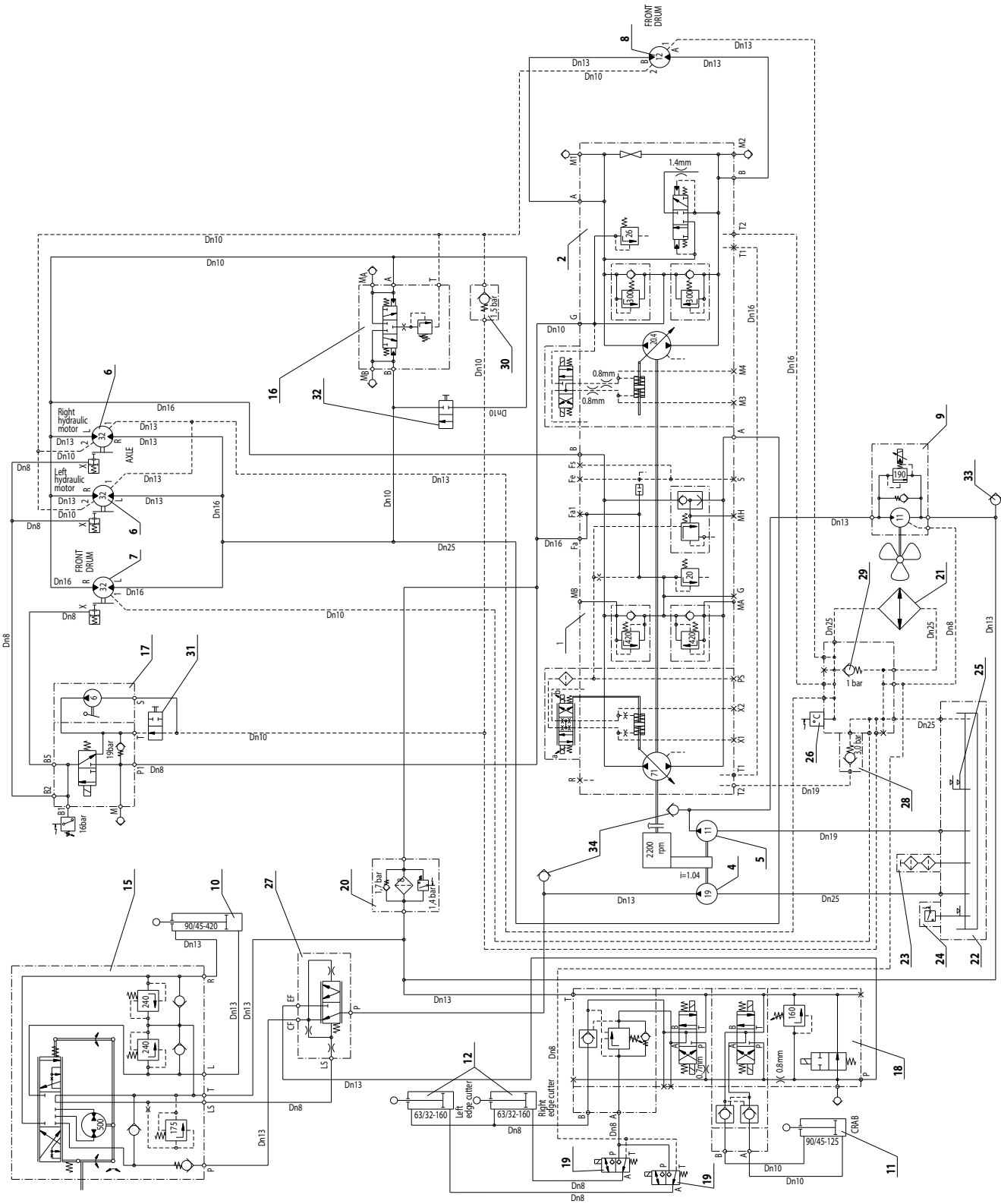
**CABLE HARNESS LEGEND:**

-  Fastom
  -  Ring
  -  Diameter
  -  Length
  -  Contact
  -  Sleeve
  -  Wire seal
  -  Metal cut
  -  Insulation sleeve
  -  Clamp
  -  Clamp
  -  Clamp
  -  Clamp
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  -  Clamp
  -  Clamp
- Wahre:**  
 R - 1 - 1200 (100)  
 Wire number    Spúšez mm<sup>2</sup>    Účelgít    Výše number
- Kabel:**  
 H03VV-F2X0.75 - 2500  
 Typ    Účelgít
- Ochranná hadička:**  
 NW13 - 700  
 Type    Účelgít



**TABLE OF COLOR SYMBOLS:**

WH	B	Bílá
BK	C	Černá
BN	H	Modrá
BU	M	Modrá
RD	R	Redá
GY	S	Šedá
YE	Y	Žltá
GN	Z	Zelená



28149en

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