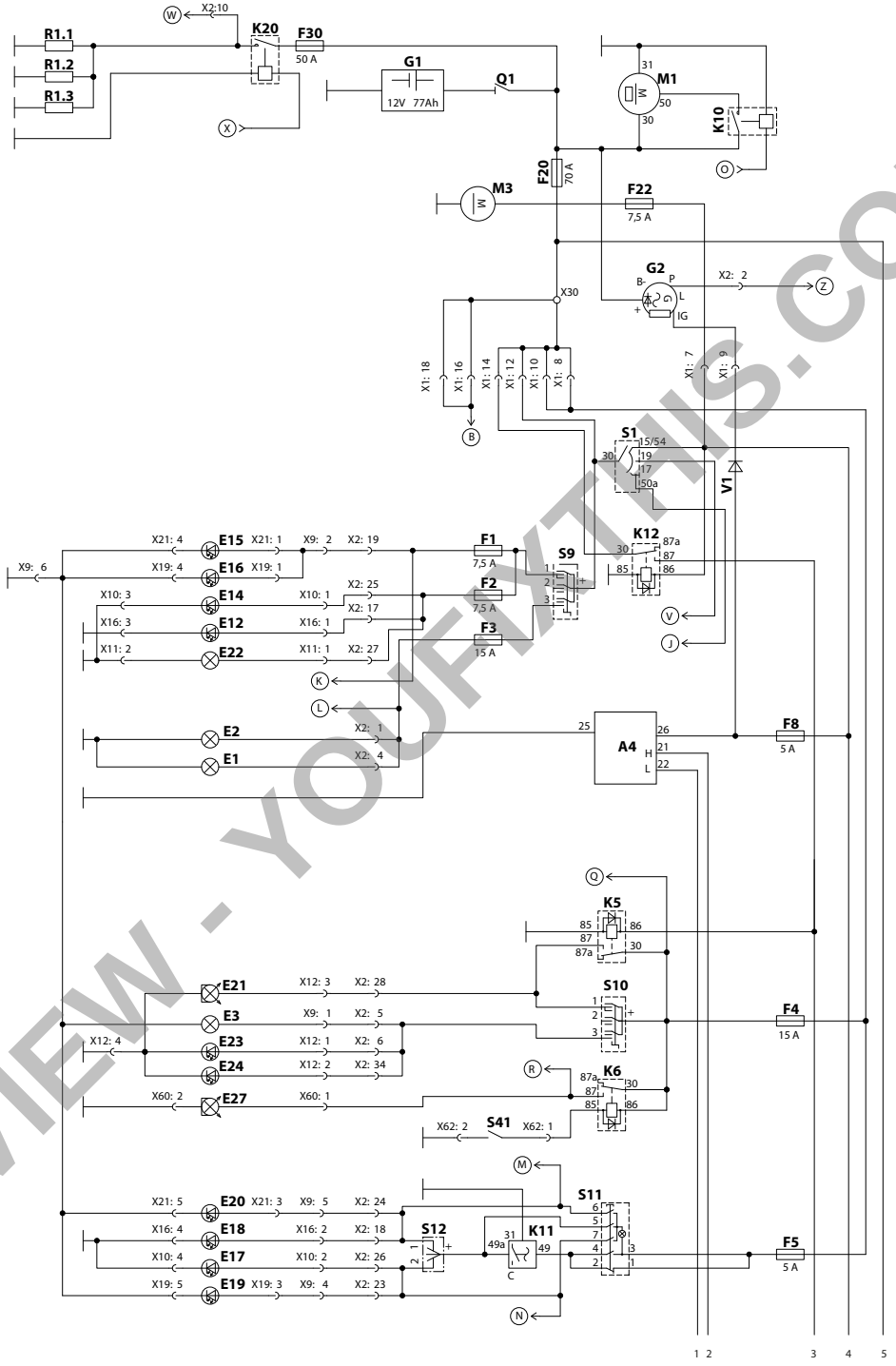
3.3 Technical data

		ARX 12-2	ARX 16-2	ARX 16-2C	ARX 20-2
		EU Stage V, U.S. EPA Tier 4 Final			
Weight					
Operating weight of EN 500-1+A1 (CECE)	kg (lb)	1460 (3220)	1510 (3330)	1450 (3200)	1570 (3460)
Operating load of EN 500-1+A1 (CECE) on front axis	kg (lb)	670 (1480)	700 (1540)	720 (1590)	720 (1590)
Operating load of EN 500-1+A1 (CECE) on rear axis	kg (lb)	790 (1740)	810 (1790)	730 (1610)	850 (1870)
Weight of half fluid capacities	kg (lb)	65 (140)	65 (140)	65 (140)	65 (140)
Operating weight of ISO 6016	kg (lb)	1470 (3240)	1520 (3350)	1460 (3220)	1580 (3480)
Maximum weight with accessories	kg (lb)	1610 (3550)	1655 (3650)	1600 (3530)	1715 (3780)
Maximum permitted weight according to ROPS	kg (lb)	1850 (4080)	1850 (4080)	1850 (4080)	1850 (4080)
Static linear load of front drum	kg/cm (lb/in)	8.2 (20)	7.8 (20)	8 (20)	7.2 (20)
Static linear load of rear drum	kg/cm (lb/in)	9.6 (20)	-	-	-
Weight of Canopy	kg (lb)	33 (70)	33 (70)	33 (70)	33 (70)
Weight of Ammann edge cutter	kg (lb)	47 (100)	47 (100)	47 (100)	47 (100)
Deduction for the transport weight to the EN 500-1+A1 (CECE) operating weight.	kg (lb)	140 (310)	140 (310)	140 (310)	150 (330)
Driving characteristics					
Maximum transport speed	km/h (MPH)	8 (5)	8 (5)	7.4 (4.6)	8 (5)
Climbing ability without vibration	%	35	35	35	35
Climbing ability with vibration	%	30	30	30	30
Lateral static stability	%	40	50	35	55
Lateral stability during driving without vibration	%	20	20	20	20
Lateral stability during driving with vibration	%	10	10	10	10
Turning radius inner (edge)	mm (in)	2100 (82.7)	2210 (87)	2140 (84.3)	2060 (81.1)
Turning radius outer (contour)	mm (in)	2550 (100.4)	2670 (105.1)	3050 (120.1)	3140 (123.6)
Type of drive	-	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Number of driving axles	-	2	2	2	2
Oscillation angle	°	±6	±6	±6	±6
Angle of steering	°	±30	±30	±30	±30
Steering					
Type of steering	-	Joint	Joint	Joint	Joint
Steering control	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Linear hydraulic motors	-	1	-	1	2

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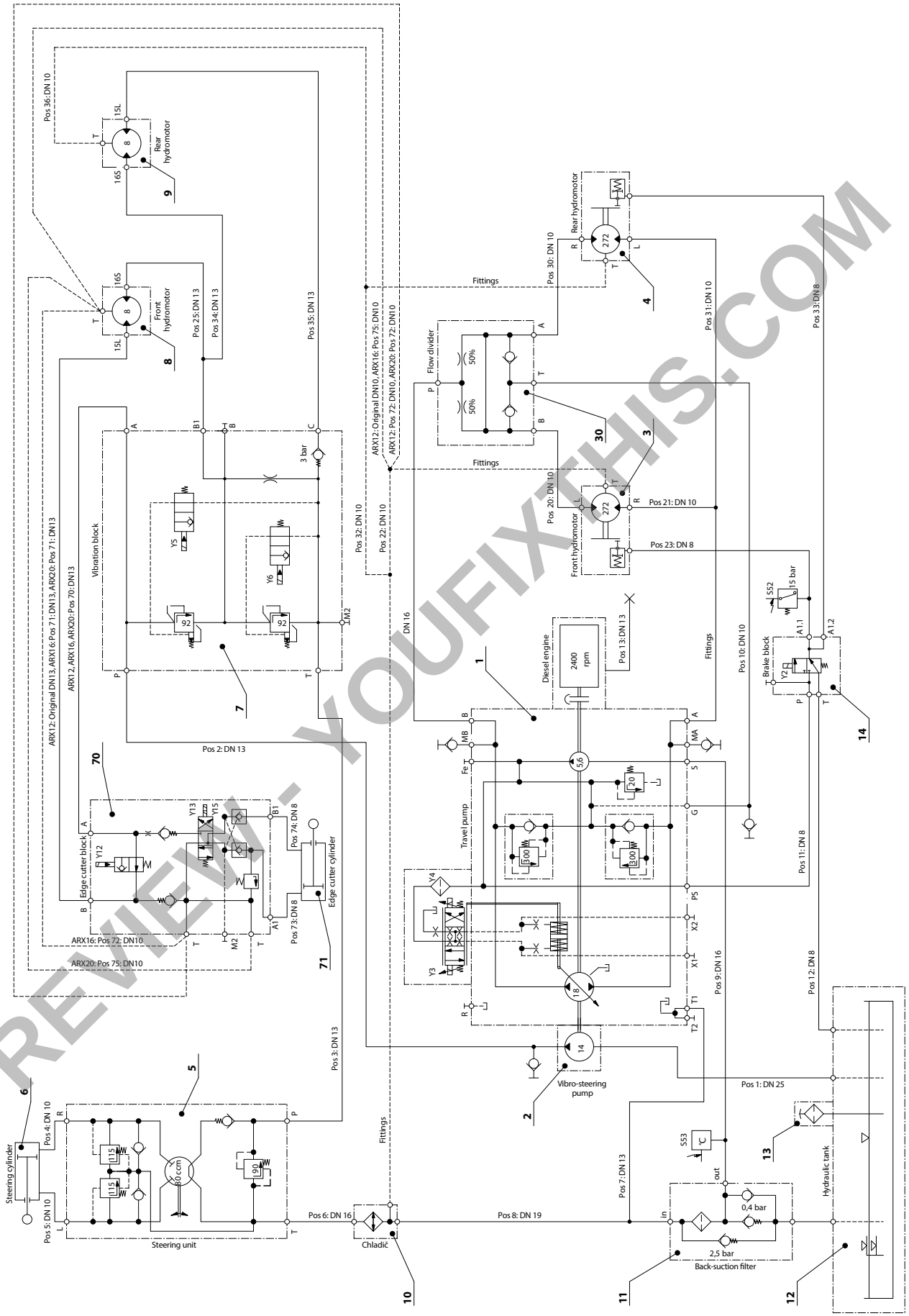
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5.4.6 Disassembly/replacement of engine bonnet

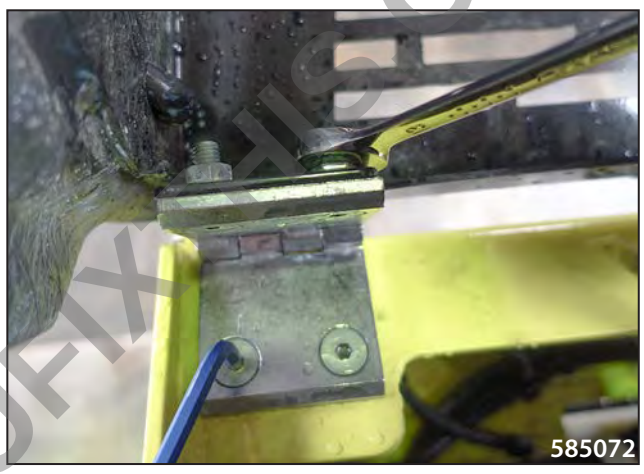
Use a screwdriver to lift the clamp.

Pull away the gas cylinder from the ball joint.



Lift the engine bonnet with the help of another person.

Remove hinges.



The bonnet can now be completely removed from the chassis with the help of another person.

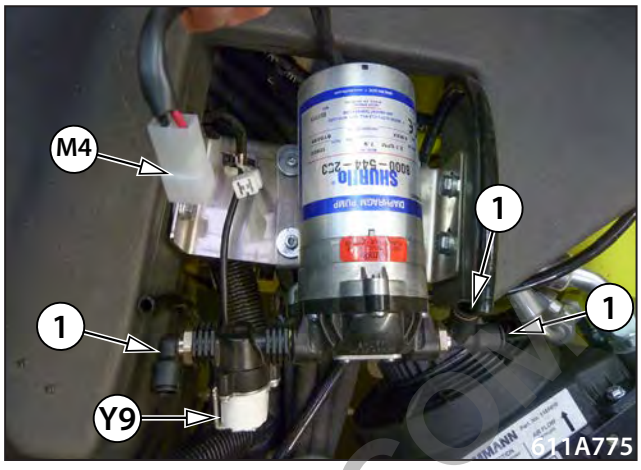
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(3x) Connect water piping (1).

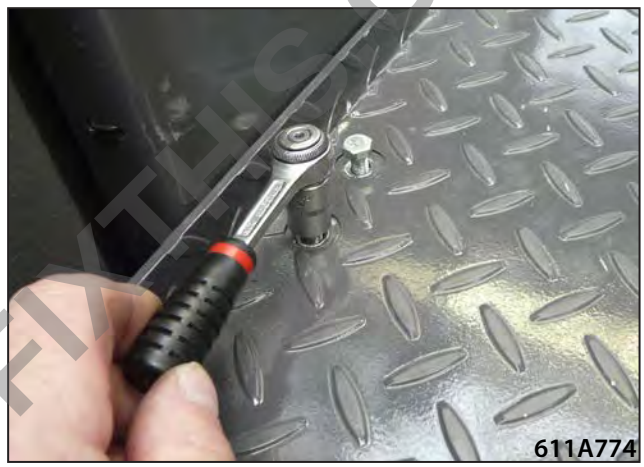
Connect the (M4) connector to the water pump.

Connect the (Y9) connector to the shut-off valve.



(6x) M8x25 hexagonal screw.

Mount the floor metal plate with a torque of 24 Nm.





Remove the hydraulic jack.

Release the lock against cranking.

Start work!



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Error on the display	Description
F21	Drive Joystick Right failure
F23	Drive Joystick Left failure (if present)
F25	Sprinkling Potentiometer
F26	[SF] SF5.2 - SafetyFunction Hydraulic temperature sensor diagnostic
F29	Vibro Relays failure
F30	Brake valve failure
F31	Battery voltage lower than 7 V
F32	[SF] SF5.1 - SafetyFunction Hydraulic oil over temperature
F36	Current PWM pump forward - the requested and measured currents of the pump forward magnet are too different from each other.
F37	Current PWM pump backward - the requested and measured currents of the pump forward magnet are too different from each other.
F38	[SF] SF2.9 - SafetyFunction Drive direction (SF_DriveDirection), Wrong drive direction
F42	Asphalt Temperature sensor failure
F45	Compaction module not calibrated
F46	Compaction module: The internal acceleration sensor has an error or an overflow of the measurement range.
F47	ACE timeout on CAN
F48	Compaction module: no calibration, or invalid parameteres, or other error
F50	[SF] SF2.4 - SafetyFunction Parking brake monitoring
F51	CAN_BUS0 error
F52	CAN_BUS1 (ECU-Engine-Levers) error. Displayed as EBUS.
F53	CAN_BUS2 error
F54	SW failure safety
F55	SW failure non safety
F56	Machine ECU failure
F57	ECU sensor supply failure
F58	Machine ECU temperature out of range
F59	Error list failure
F60	Engine type autodetection failed
F61	Engine CAN communication lost
F62	[HW] Alternator error - P-terminal output not detected
F63	[HW] Engine speed is too high - above SETPOINT_B

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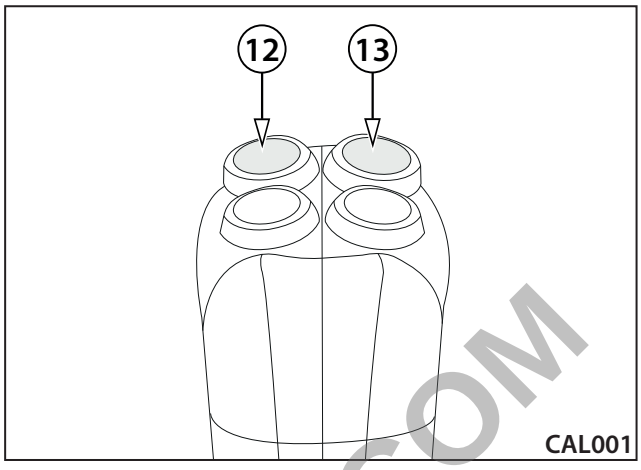
Forward travel calibration

Set the travel control to the neutral position "N".

The display shows the „CUrr" status (current) and the "0" value indicating the current to the travel coil in mA.

Set the travel control to the "0" position and then to the forward travel position. A starting current on the forward travel coil appears on the display (e.g. 400 mA).

This value increases by 1 mA every second. When the machine starts to move slowly, press the OK button (12).



The value on the display starts to drop by 1 mA per second. When the machine stops, press the OK button (12). Now the forward travel calibration is completed. The last value remains on the display.

Set the travel control to the neutral position "N".

"0" appears at the bottom of the display.

Reverse travel calibration

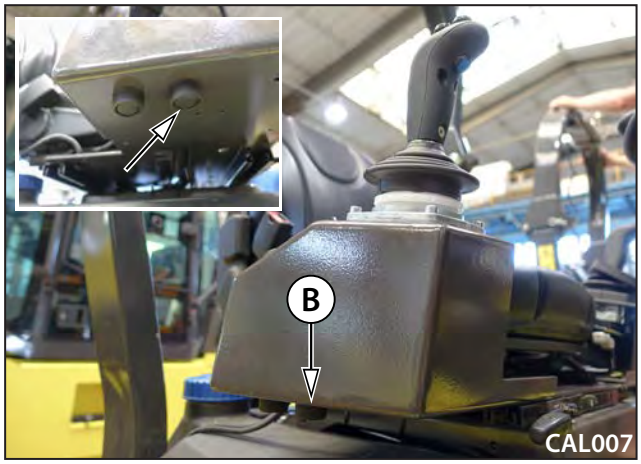
Keep the travel control in the neutral position "N".

Set the travel control to the "0" position and then to the reverse travel position. The value displayed on the display is negative.

This value increases by 1 mA every second. When the machine starts to move slowly, press the OK button (12).

The value on the display starts to drop by 1 mA per second. When the machine stops, press the OK button (12). Now the reverse travel calibration is completed. The last value remains on the display.

Set the travel control to the neutral position "N".



Travel calibration completion

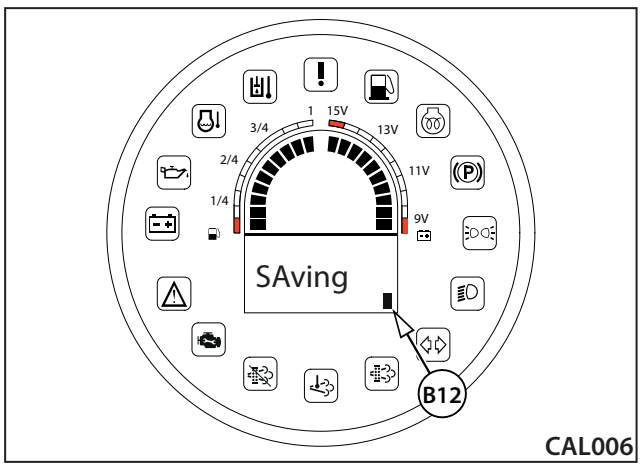
Set the travel control to the parking brake position "P".

If the calibration has been successfully completed, the "SUCC" status appears on the display.

If the calibration has not been successfully completed, the "FAIL" status appears on the display.

To save all parameters, set the B12 tab and press the calibration button (B) for 5 seconds.

While the button is held down, the display shows the "Saving" status.



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2.1 Safety rules

These safety rules must be followed by all persons involved in machine repairs!

- Repairs of this machine may be carried out only by qualified, professionally trained and experienced workers or by the Service personnel of our dealers.
- Always use our workshop manual when performing repairs. Individual chapters contain special instructions regarding assembly work.
- Before putting the machine into operation, familiarize yourself with the machine controls according to the Operating Manual and make sure you have well understood all the equipment of your machine.
- Do not use the machine if you do not fully understand all operating and control elements and if you do not know exactly how the machine works.
- Familiarize yourself with the area where you work.
- Do not carry out any alterations or modifications to the machine, as this may affect the safety of the machine.
- Original parts and accessories have been designed specifically for this machine.
- Installation and use of spare parts that are not supplied or authorized by the machine manufacturer may have a negative impact on the operational characteristics and safe operation of the machine.
- It is forbidden to remove components of individual parts during the warranty period. If you fail to comply with this prohibition, the warranty of the damaged component will not be recognized.

Safety measures for machine repairs and inspection

- Wear work clothes and footwear.
- Use gloves when handling oil, fuel and coolant.
- When handling the battery, protect your eyes with goggles or a shield.
- Place the machine on a level and firm surface before performing repairs. Secure the machine against rolling.
- Secure the machine and drum frame against relative rotation with a lock pin and rod.
- Before starting work, remove the key from the ignition, disconnect the batteries and allow hot parts to cool.
- Attach a "machine out of order" sign to the steering wheel and leave it there for the duration of the work.
- Properly wash the entire machine. In the case of steam cleaning, avoid aiming the steam flow directly at electrical components and insulating material or cover them beforehand.
- When removing, installing and repairing individual groups, maintain absolute cleanliness of all parts. Protect removed parts against dirt.
- Clean the surface of removed parts and create a corresponding dust-free work environment with the necessary storage area.
- Handle cleaning agents with caution. Do not use petrol or other flammable substances for cleaning!
- Dry the cleaned parts and immediately coat them with anti-corrosion oil – never install corroded parts!
- Tools, lifting equipment, securing elements, supports and other auxiliary equipment must be in a good, working condition.
- Lifting equipment and slings (ropes, chains) must have adequate load capacity and be intact.
- Ensure sufficient air supply when starting the machine indoors.
- Before putting the machine into operation, make sure there are no persons on the machine or in its dangerous proximity. Use the audible warning signal when putting the machine into operation, always before starting the engine and after each break, before the machine starts moving. Persons located on the machine and in its dangerous proximity must leave the machine and the area after the audible warning signal.
- Do not adjust the machine in operation.
- When performing necessary work on a running engine (adjustment), avoid contact with hot and rotating parts of the machine. Work performed when the engine is running (adjustment) must be carried out in the presence of another person who has immediate access to emergency shut-down and who is continuously in contact with the person performing the adjustment, so that the engine can be immediately switched off if necessary.
- Only use prescribed kinds of engine, transmission and hydraulic oil and coolant.

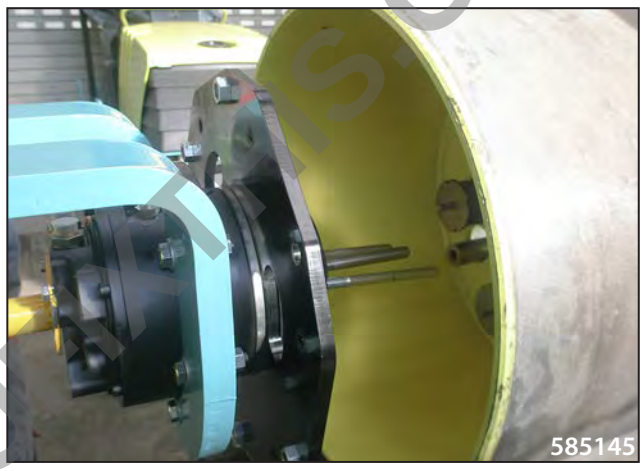
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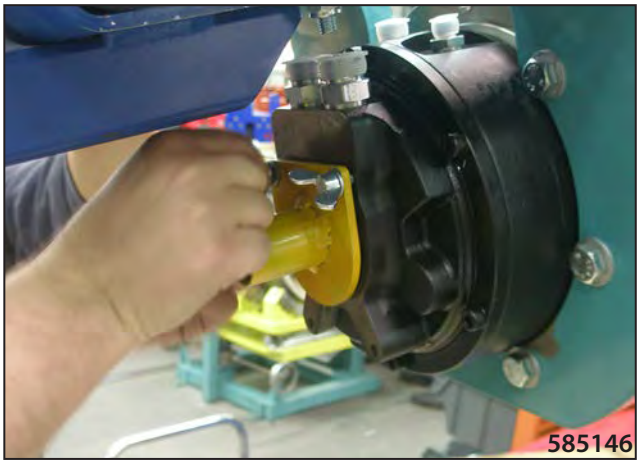
Remove the screws (6x).



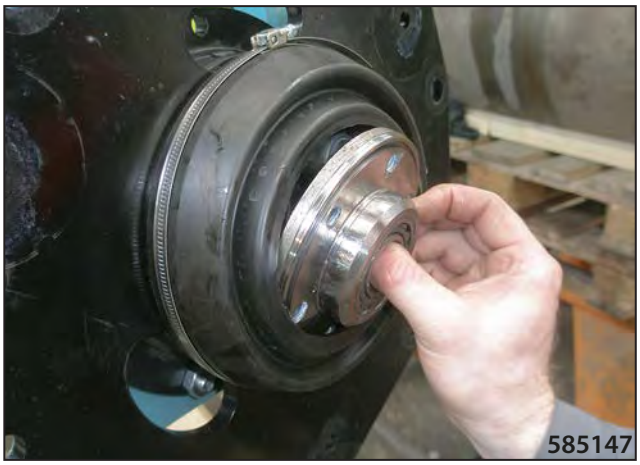
Pull out the support.



Remove the support adapter.



Remove the flange.



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18.1 SW error diagnostics

Use appropriate software tools for diagnostics.

18.1.1 Error codes

Machine error codes

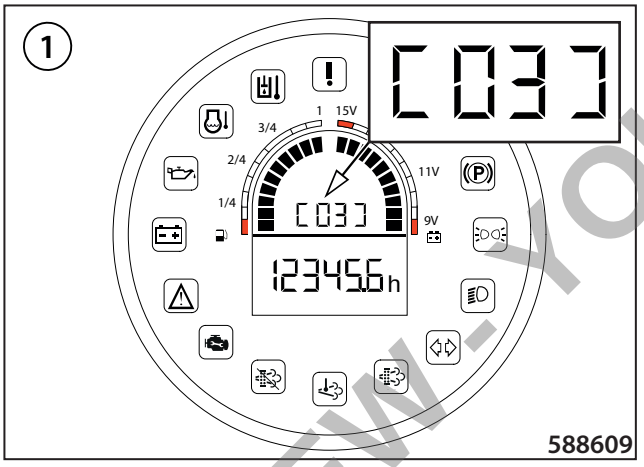
First stage

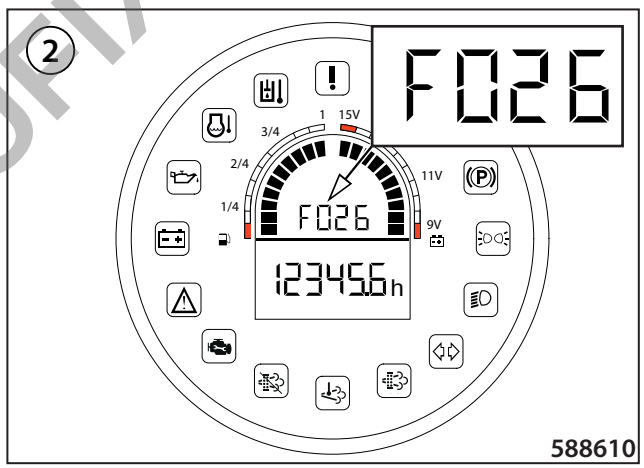
There are no errors, but warnings of some processes.

Warning on the display	Description
- 11	Seat contact open
- 12	One or both levers are out of Parking brake position
- 16	Immobiliser is active

Second stage

If there are one or more active errors (from the engine or control unit), the display first shows the amount of these errors in square brackets (1) and then the numbers of the errors one by one (2). The errors are thus displayed one by one as long as they are active.





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