SE/SL Range 56

Dry running switch replacement

Service kit instructions

GRUNDFOS

SE/SL Range 56

English (GB)

Service kit instructions 4

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Original service kit instructions

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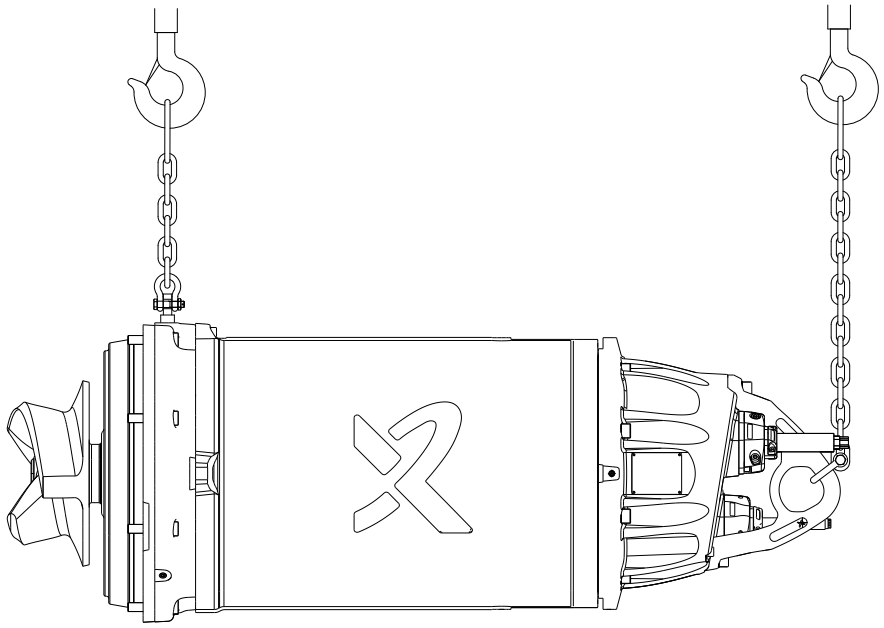
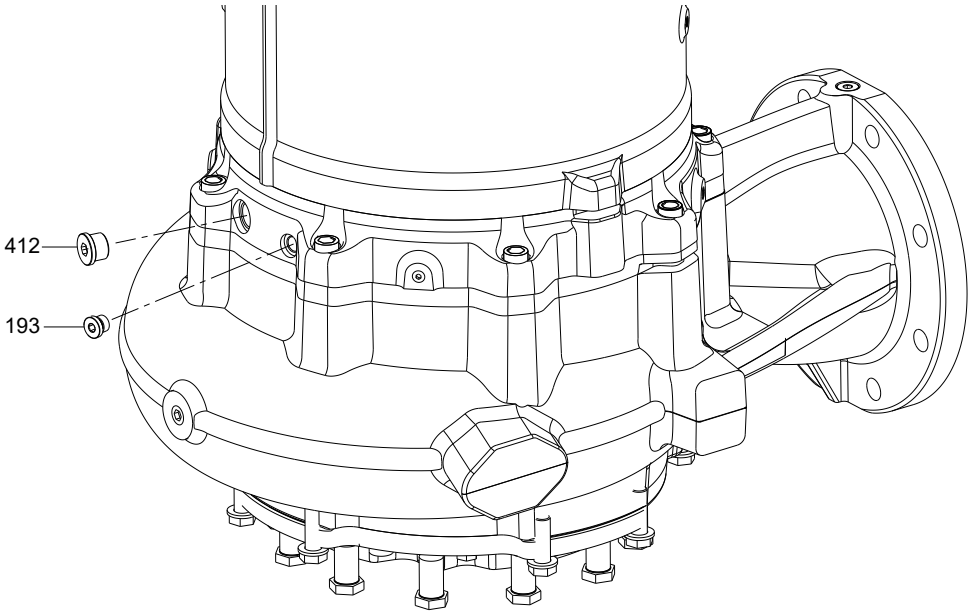
1. Motor liquid discharge

1. Tilt the pump 90 degrees using a crane.



TM090539

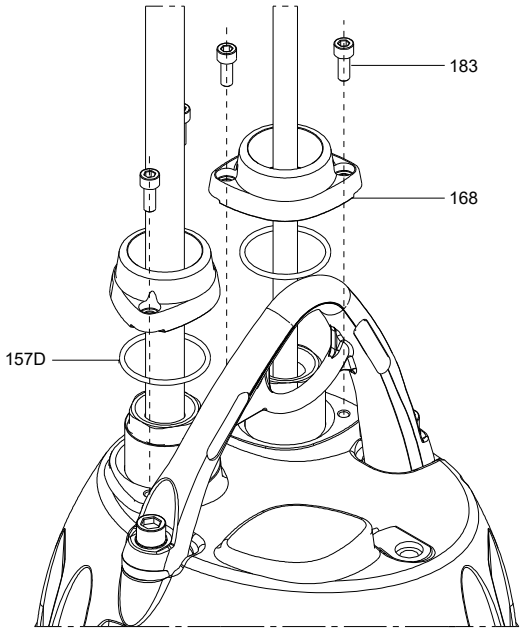
2. Place the pump in horizontal position, so the filling plug (412) is pointing downwards.
3. Place a container under the filling hole (above 31 liter capacity).
4. Remove the filling plug (412) and drain the motor liquid from the cooling jacket..



TM085626

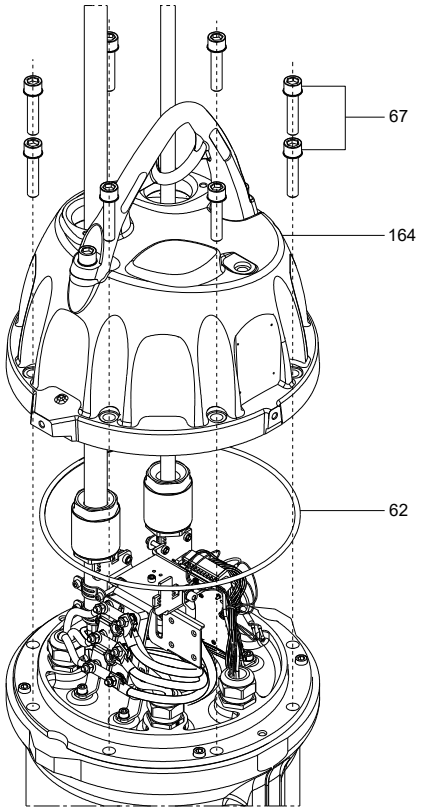
2. Remove the motor top cover

1. Remove the screws (183) from the upper part of the cable inlet (168).



TM084194

2. Remove the upper part of the cable inlet (168).
3. Remove the screws holding the motor top to the stator housing (67).

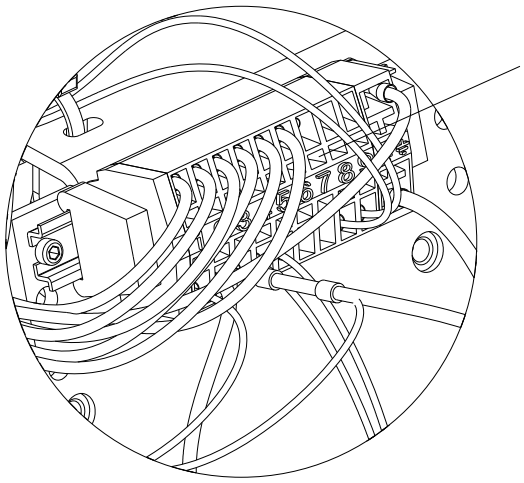


TM084092

4. Attach the lifting equipment to the designated lifting points (lifting handle) lift the motor top off.

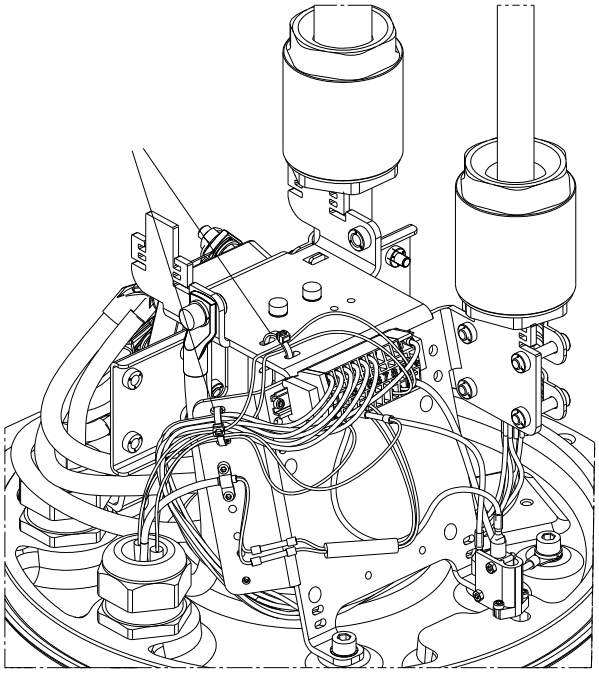
3. Remove the power and sensor cables

1. Detach the signal wires from the terminal board. Apply a screwdriver on the marked holes to release the terminal clamps.



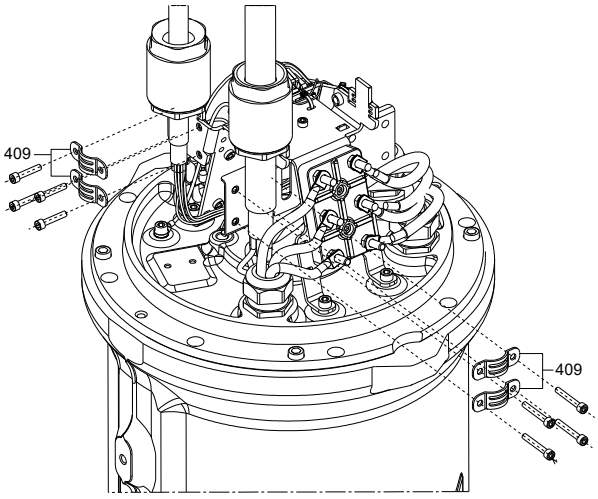
TM084096

2. Remove the wire zip ties highlighted below.



TM084097

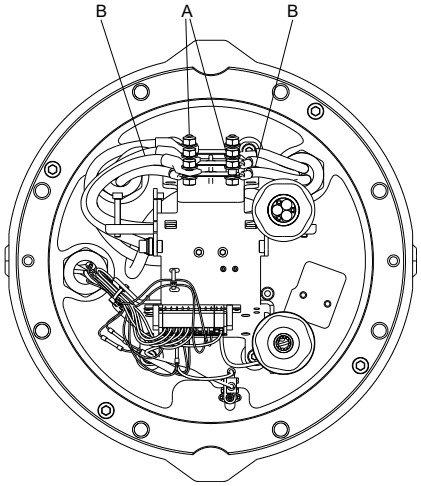
3. Remove the sensor cable clamps (409).



TM084095

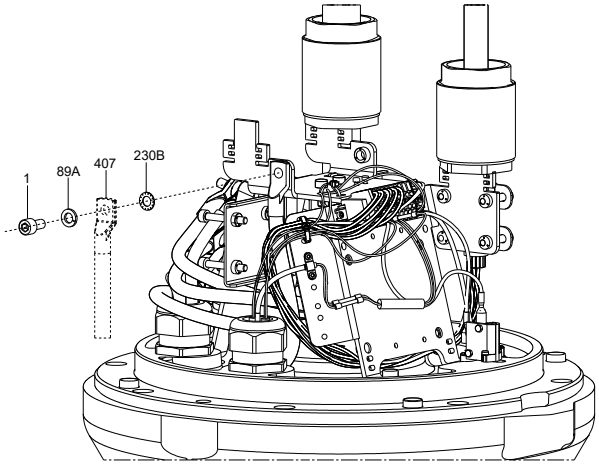
4. Sensor cable can be safely removed from the pump now.

5. Remove the power cables from the main terminal board.
   a. Remove the M8 nuts and flat washers (A).
   b. Remove all power cables. (B)



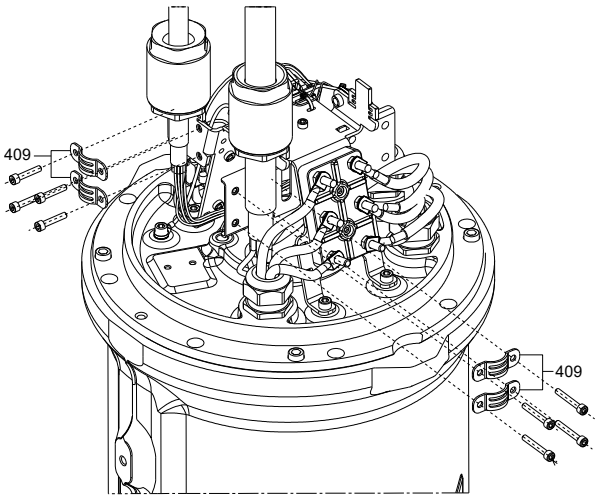
TM084094

6. Detach the earth cable(s).



TM084093

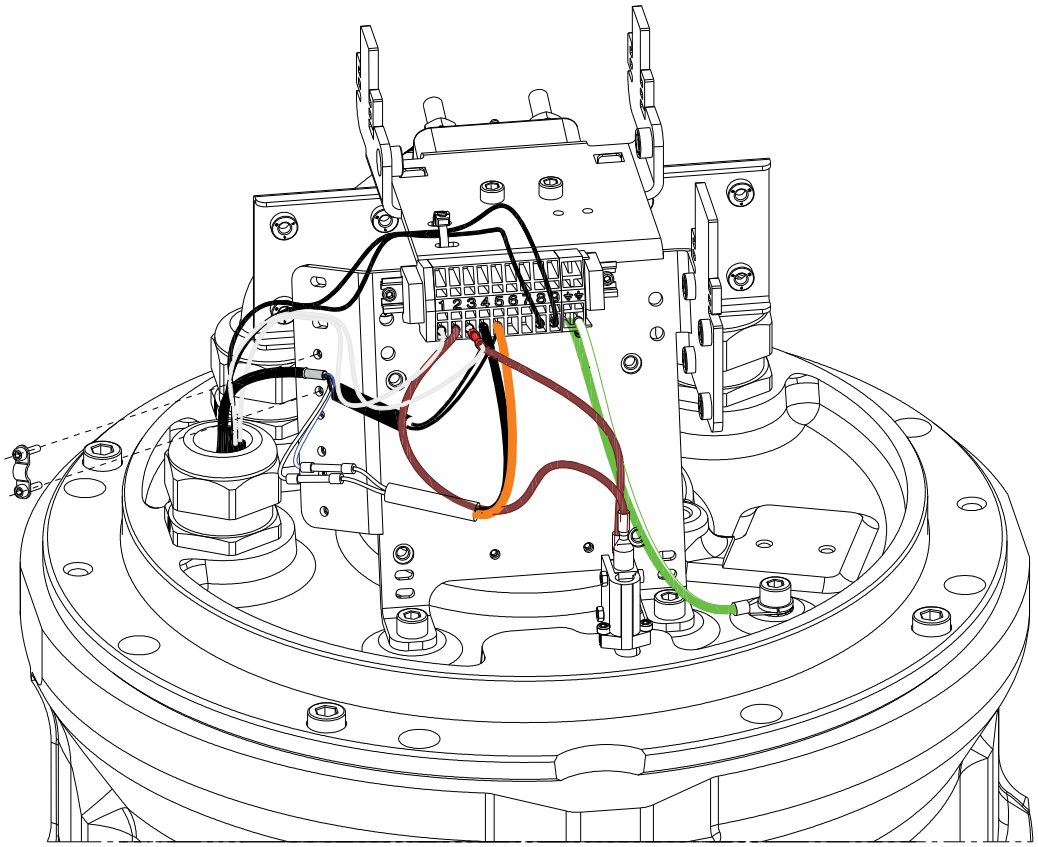
7. Remove the power cable fixing clamps (409).



TM084095

8. Power cables can be safely removed from the pump now.
9. Pull the detached cables away from the motor top.

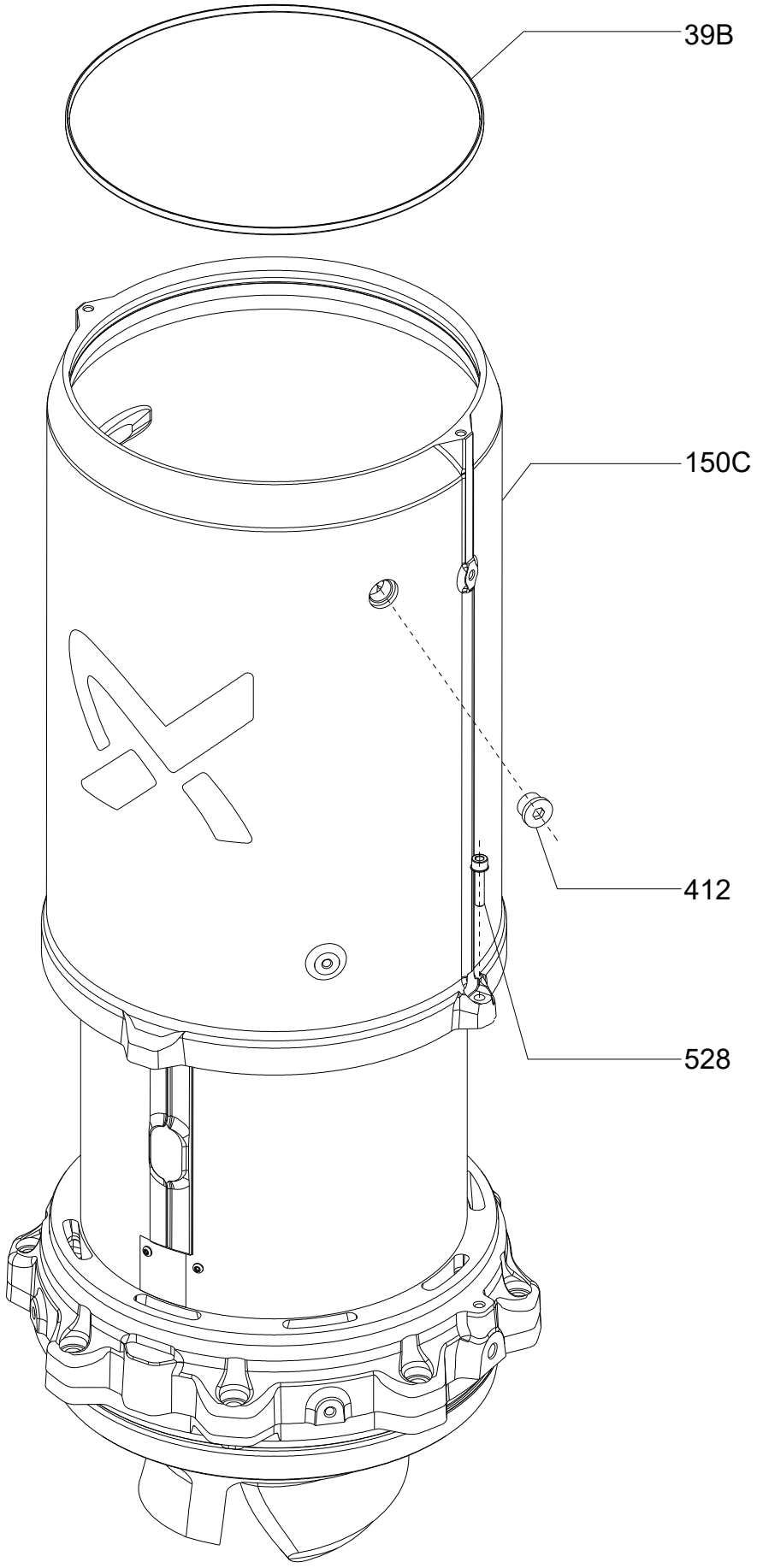
10. Remove the O-ring (62) between the stator housing and the motor top.



TM084120

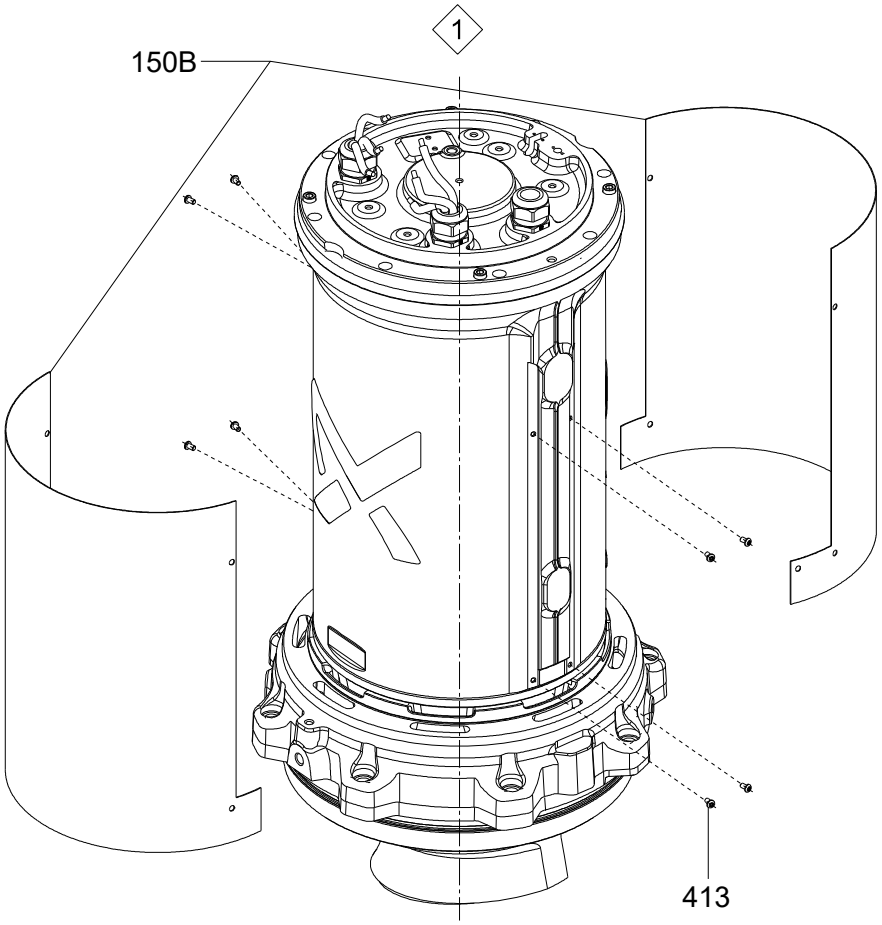
4. Remove the cooling jacket

1. Loosen the motor liquid filling screw (412).
2. Loosen the screws securing the cooling jacket to the pump housing (528).
3. Lift the cooling jacket using a crane/forklift.



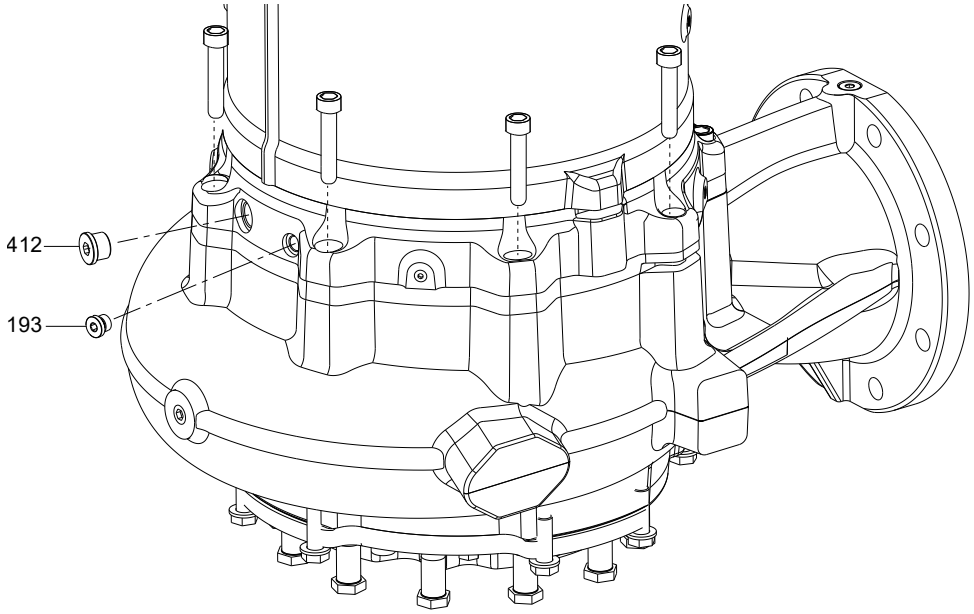
TM090542

4. Remove the screws of the cooling jacket plate and then the plates themselves.



TM090650

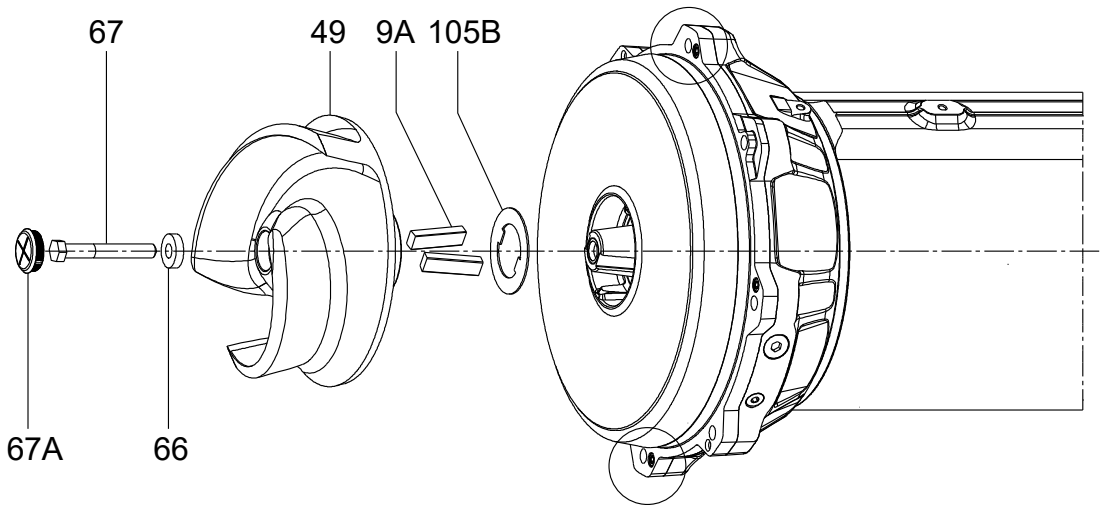
5. After loosening the screws, the motor must be removed from the volute.



TM090653

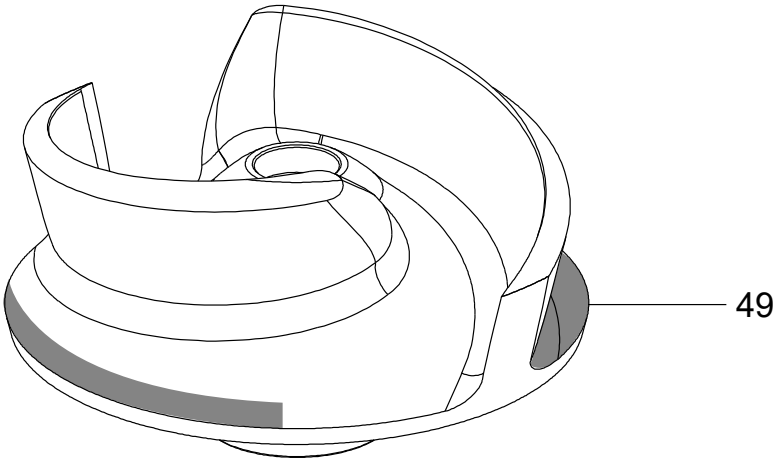
5. Removal of impeller

1. Remove the impeller plug (67A).



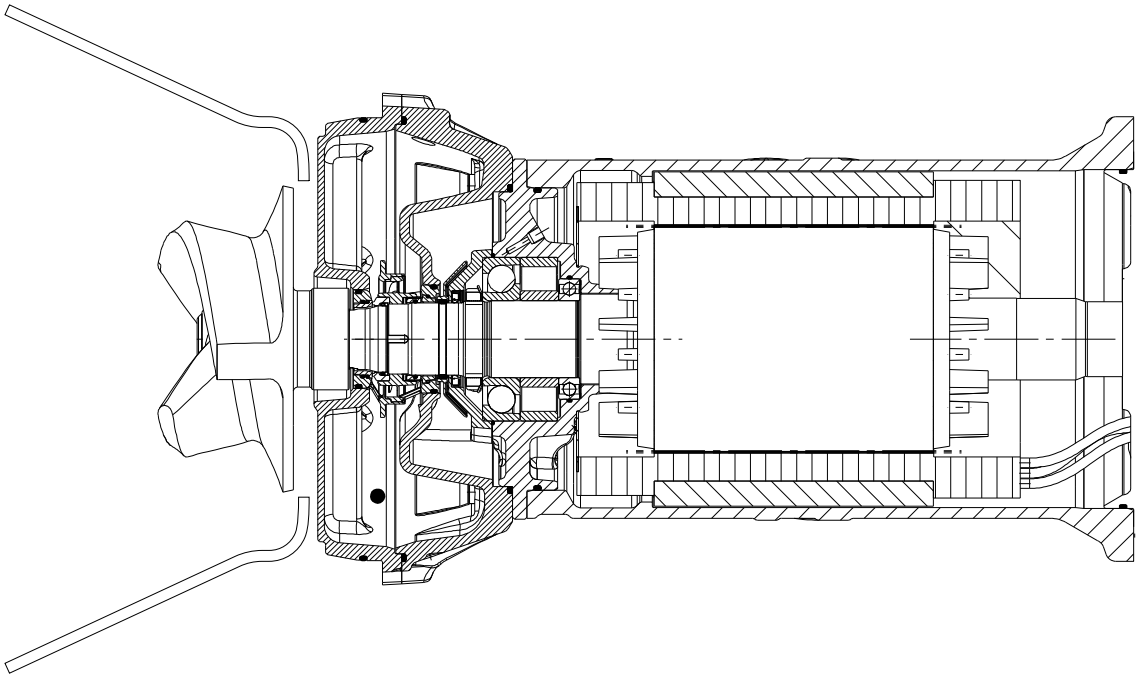
TM090651

2. Remove the M16 x 120 screw (67) and its washer (67A) holding the impeller.
3. Use a plastic hammer to carefully knock around the marked upper edges of the impeller (49), to make it loosen up on the shaft end.



TM084116

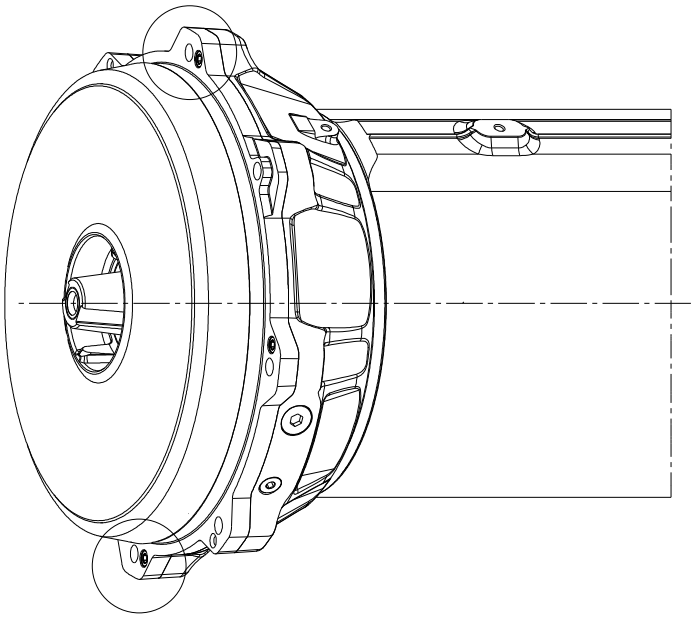
4. Use two crowbars opposite of each other, and concentrically reach under the impeller. Push the impeller up to remove it.



TM090658

5. Remove the impeller (49) from the shaft end.

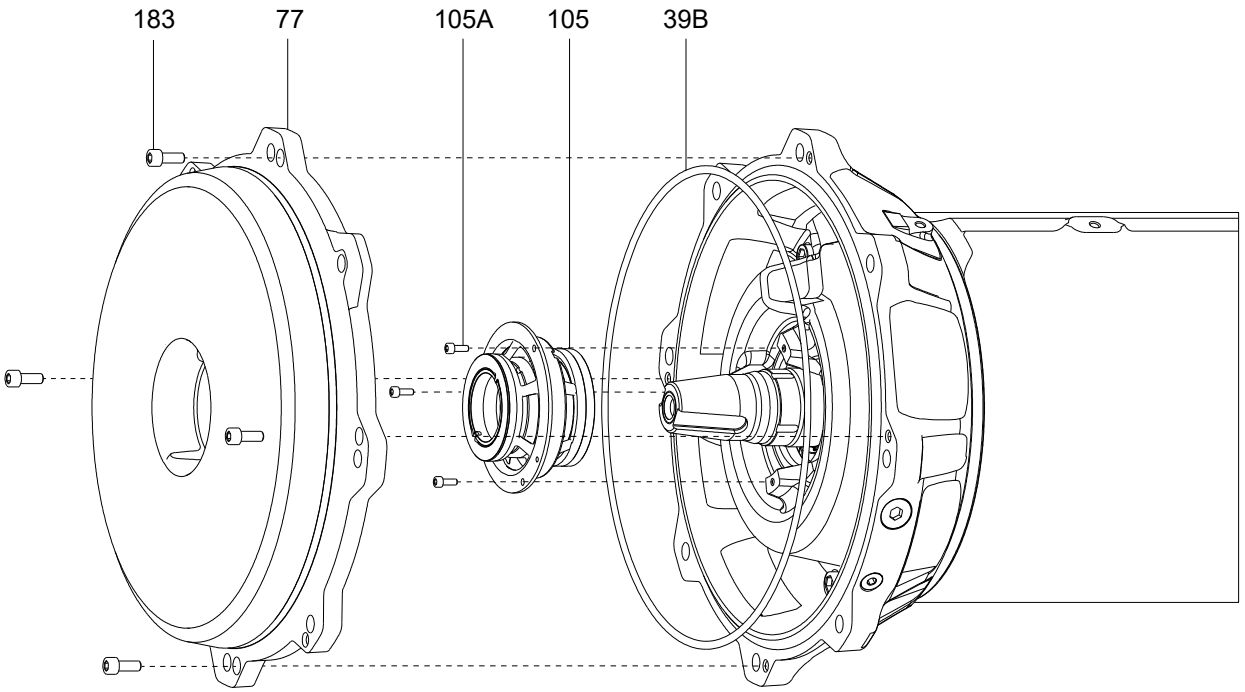
6. Remove the latches (9A) from the grooves in the shaft end.
7. Remove the shaft seal protector (105B).
8. Turn the motor upside down. Use liftin eyes fixed to the positions shown below.



TM090647

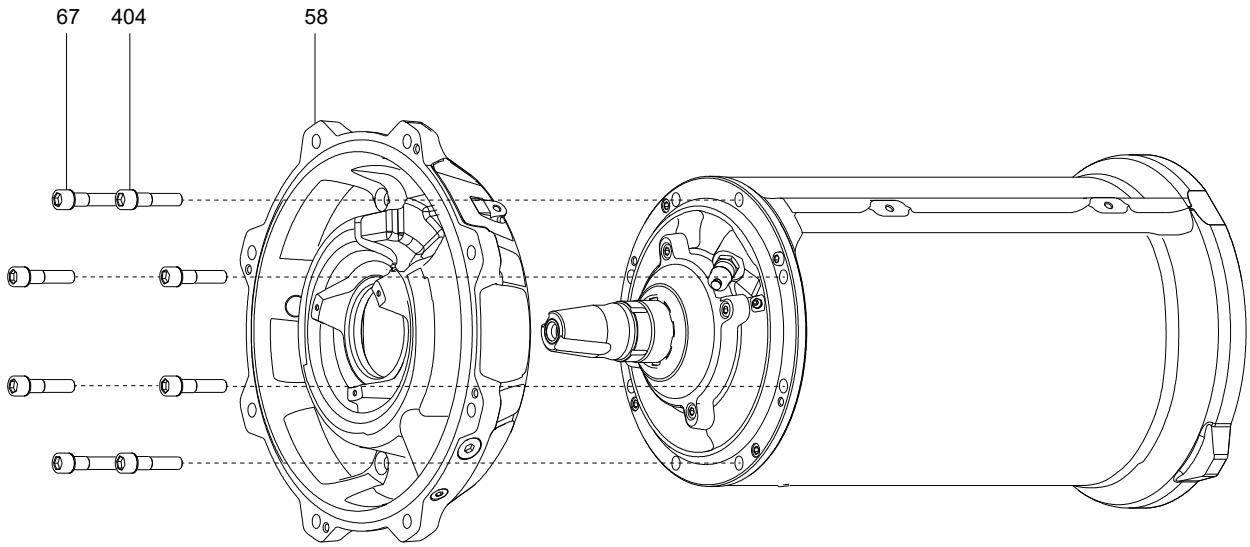
6. Shaft seal removal

1. Remove the 4 M10x25 screws (183).
2. Lift off the lower seal housing (77).
3. Remove the O-ring (39B).
4. Clean the shaft end, to ease the removal of the shaft seal.
5. Remove the 3 M6x16 screws (105A).
6. Carefully pull off the shaft seal from the shaft end, keeping it parallel to the shaft's centerline.



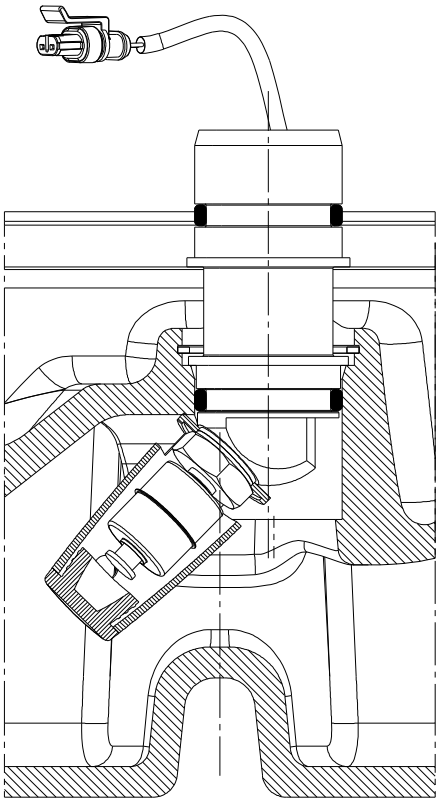
7. Upper seal housing removal

1. Remove the 8 M16x70 screws (67).
2. Lift off the upper seal housing. Do **NOT** use the marked three threaded holes as lifting points.
3. Remove the O-ring (39).



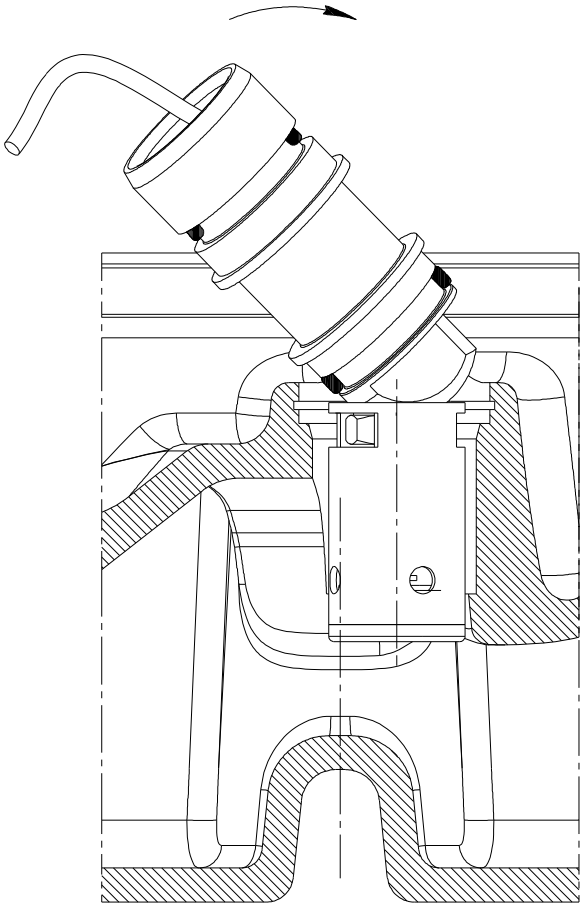
8. Dry running switch replacement

1. Unwind the dry running switch from the sensor pipe.



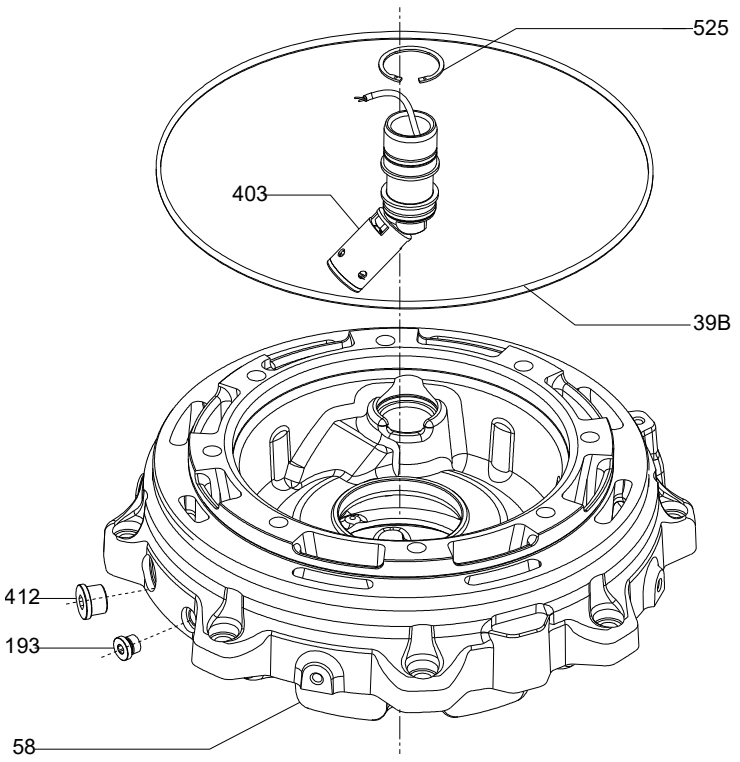
TM090617

2. After removing the Seeger ring (525), pull out the sensor pipe by tipping it over.



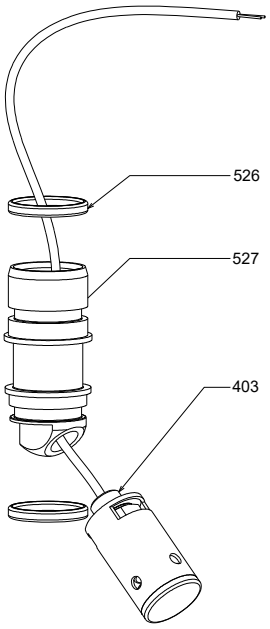
TM090619

3. Replace the dry running switch after removing the upper seal housing (58).



TM090616

4. After removing the pipe plug, the switch can be removed from the house of the dry running switch.



TM090615

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