

Replacement of ACR 2400 Internal Cable Harness (Part 1) Removal of P/N: 291.317

1.

Note!

Make sure that the connected GPU is switched off and sufficient secured against supplying 400 Hz to the ACR.

Tools needed for this job:

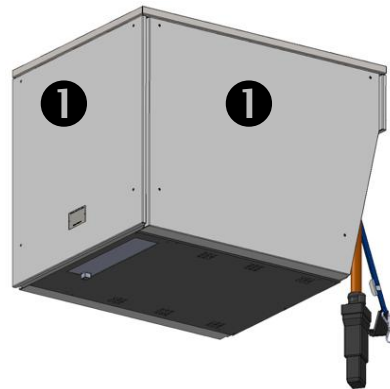
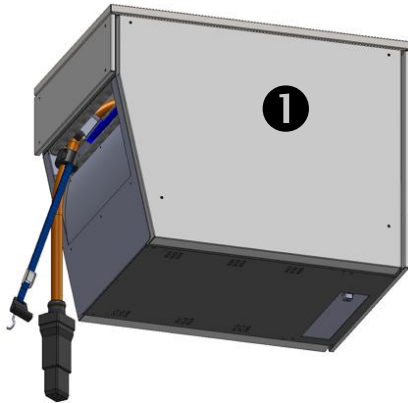
- Allen key size 6
- 10 mm fork wrench
- 13 mm fork wrench
- 19 mm fork wrench
- Puller tool
- Diagonal cutter

2.

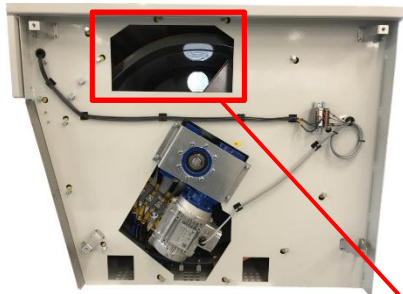
1. Uncoil half of the 400 Hz output cable until the cable is at centre position on the drum.



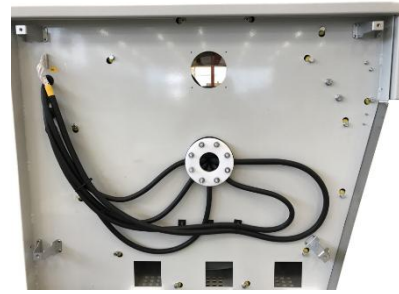
1. Remove the three panels marked **1** by using an Allen key size 6.



Then the unit looks like this:



Left side



Right side



Note.

Make sure that the cables are visible in the cut out of the cubicle, otherwise you may need to move the drum a little back or forth.

2. Switch off breaker Q1 for the 50/60 Hz supply.
This secures that the ACR can't be operated.

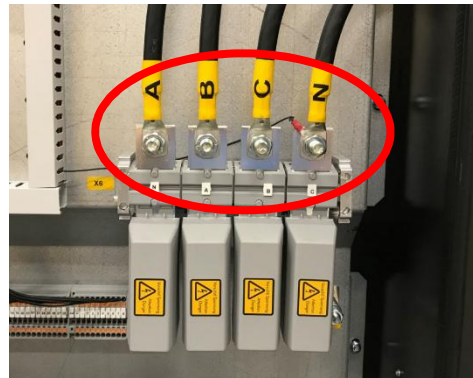


Note:

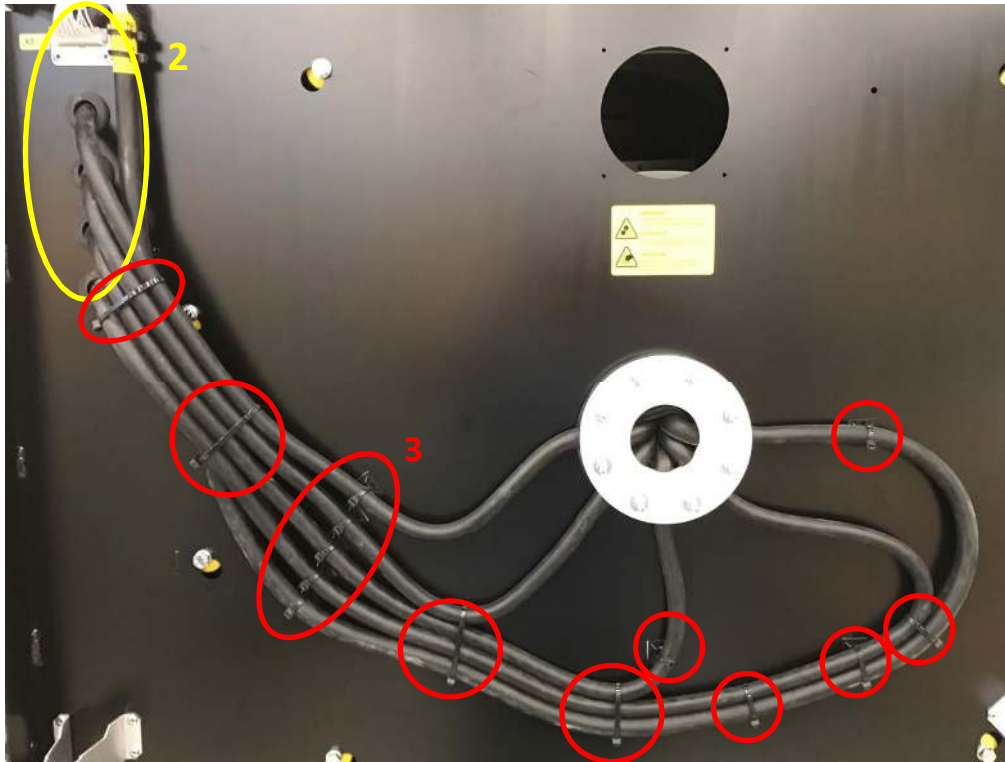
Retain removed cover / screws stored in a safe place.

3.

1. Remove the terminal cover and disconnect the cables A-B-C-N, using a 19 mm fork wrench.



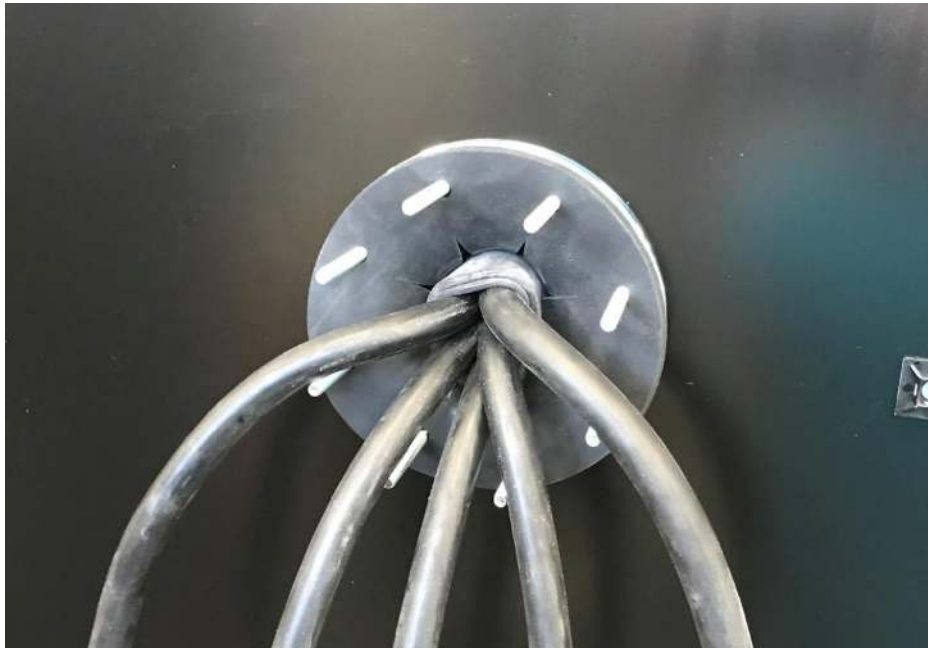
2. Gently pull the four cables A-B-C-N through the holes and disconnect the control wire plug.
3. Cut all cable ties.

**4.**

1. Unscrew the nuts crosswise.



2. Remove nuts / spring washers / washers and the plastic flange.



3. Pull off the black rubber flange and leave the cable as shown.

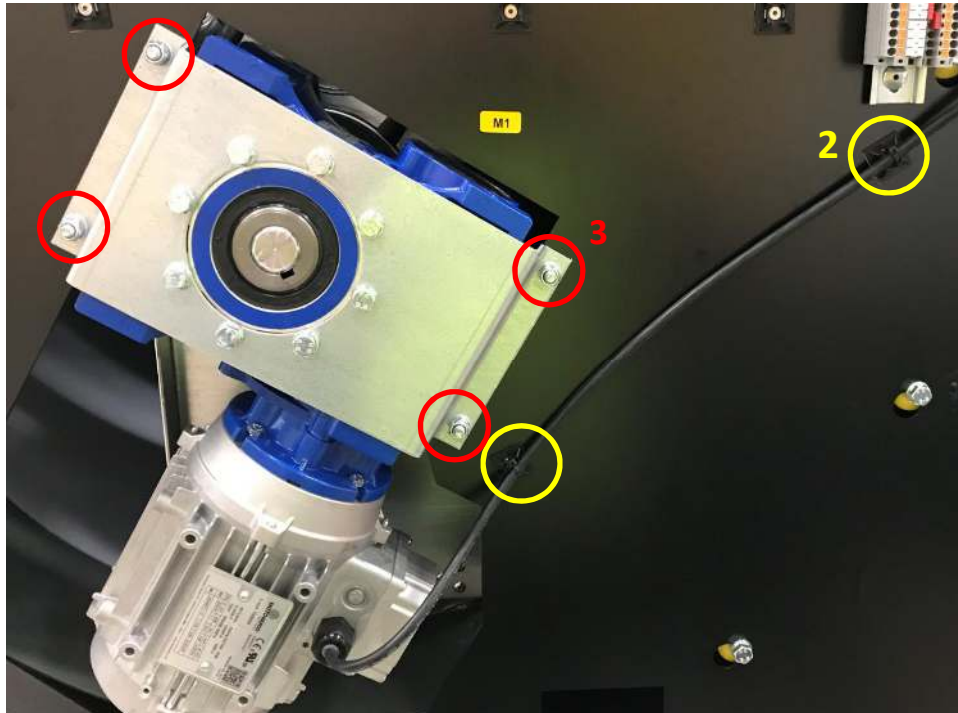


Note:

Retain all removed parts stored in a safe place.

5.

1. Move to the other side of the ACR.
2. Cut the cable ties for the motor cable.
3. Unscrew the four nuts. Remove the nuts / spring washers / washers.



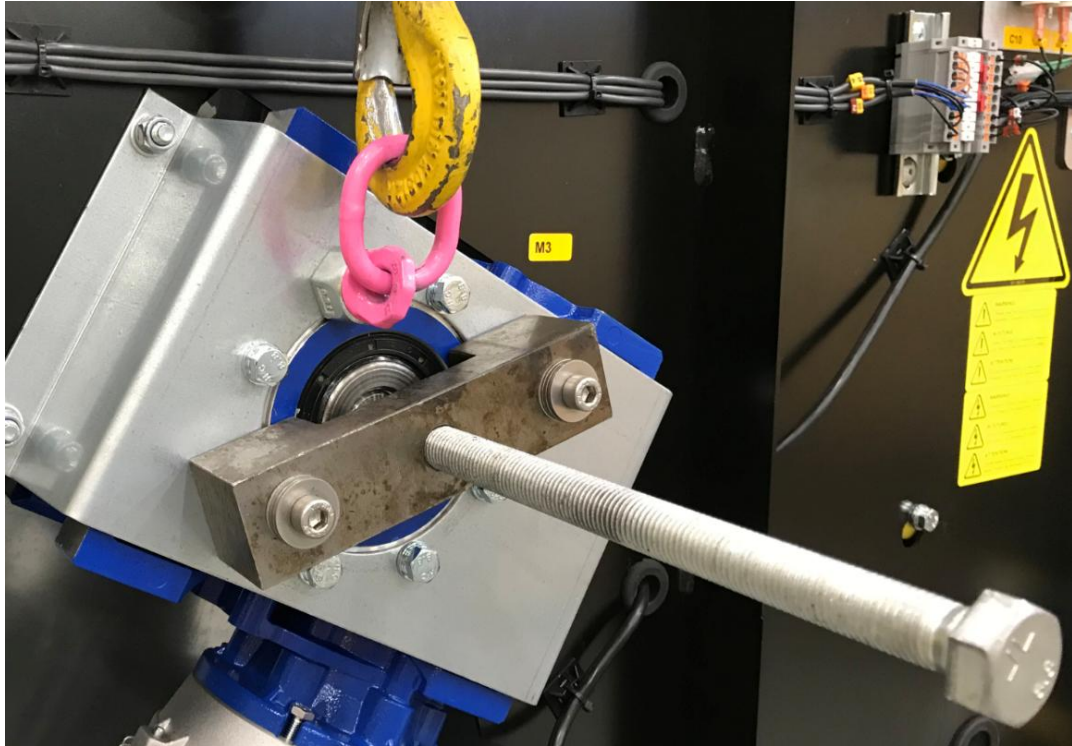
4. Gently pull the motor towards yourself, the motor with cable, can be put to rest at the bottom of the cable drum.



Note.

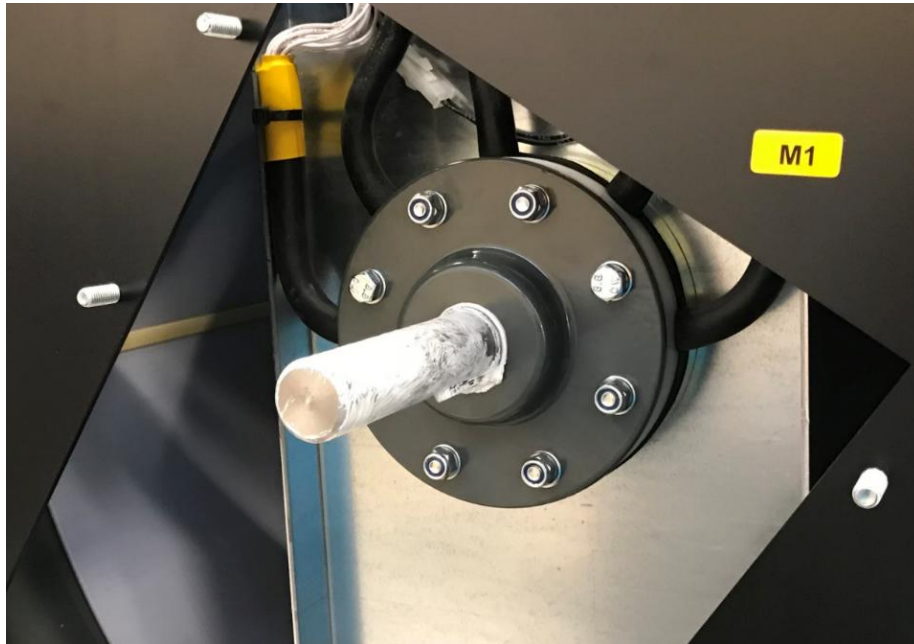
In cases where the motor can't be pulled off by hand, you will need the puller tool.

- a) Remove two cross placed bolts from the Motor/gearbox.
- b) Place the puller tool and loosely fasten the two bolts.
- c) Turn the centre bolt clockwise to press out the motor assembly.

**Note.**

Picture above shows additional lifting gear attached to the motor/gearbox, if possible you can use that as well.

5. Pull out the axle from metal flange.



Note.

You may need the wipe of the grease, before removing it.

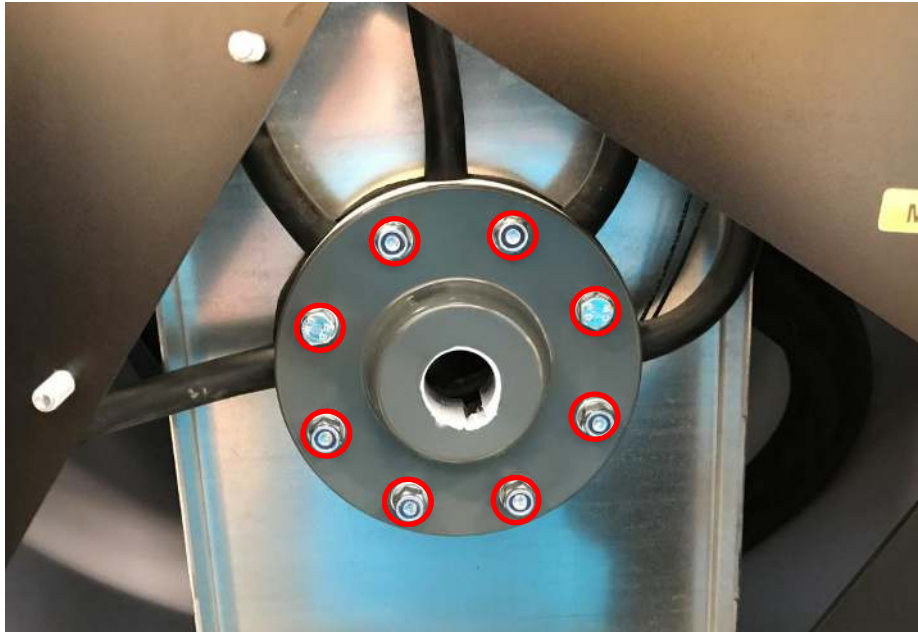
6. Disconnect the output cable / the four flexible cables A-B-C-N and control wire plug, attached to the connection terminals.

Note.

If the ACR has a temperature sensor on the drum disconnect the sensor plug too.

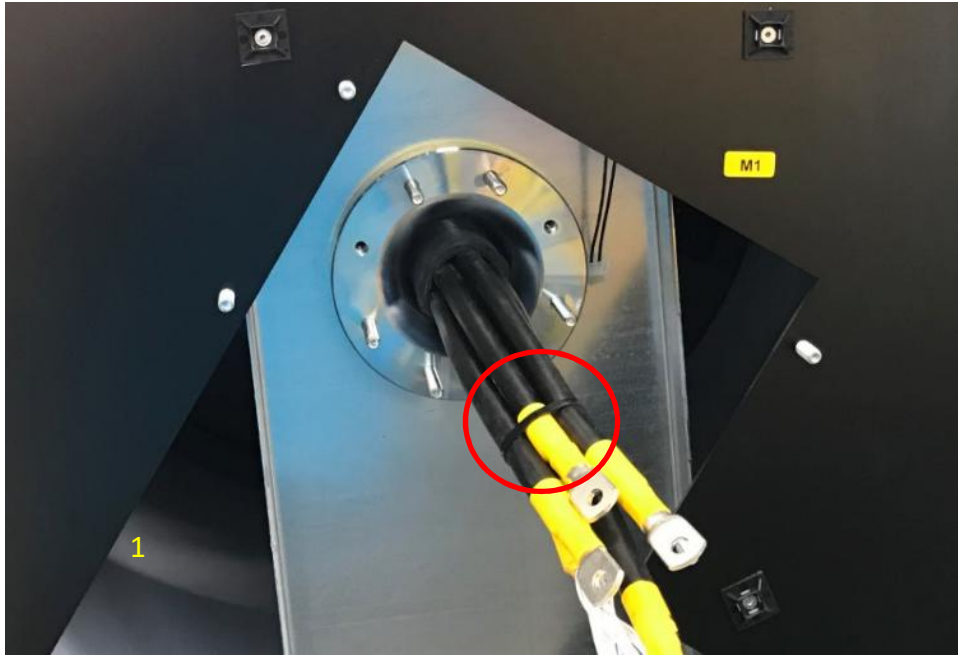


7. Remove crosswise the six nuts / washers and the two bolts / washers, holding the metal flange, by using a 13 mm fork wrench.



8. Remove the metal flange / white plastic flange and the eight spacers.





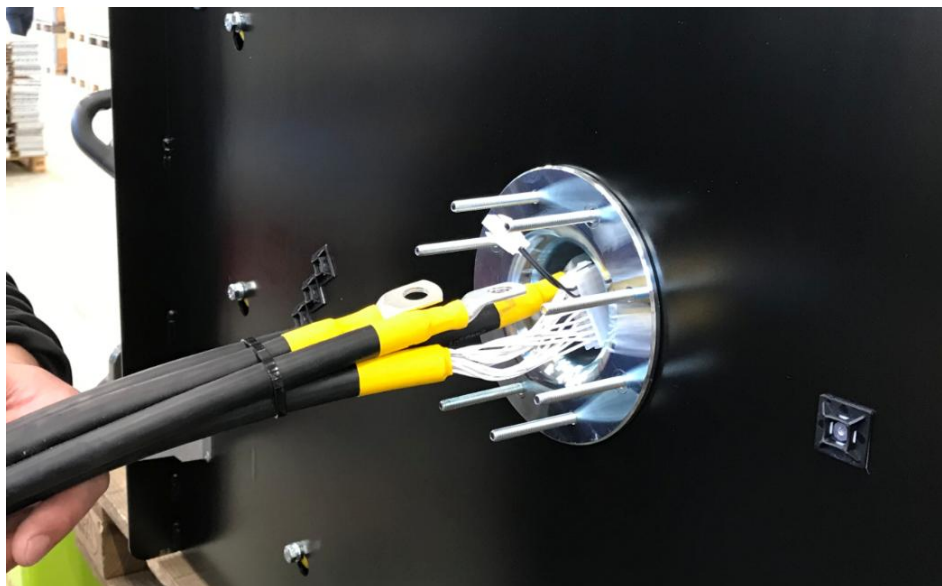
9. Bend down the cables (A-B-C-N / control) and pull off the black rubber flange (You can use a cable tie to hold the cables together).

Note:

Retain all removed parts stored in a safe place.

6.

1. Move to the other side.
2. Pull out the flexible cable harness.



Note.

To install the new flexible cable harness, please refer to part 2.