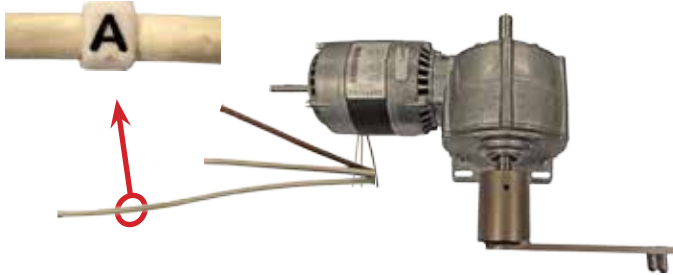
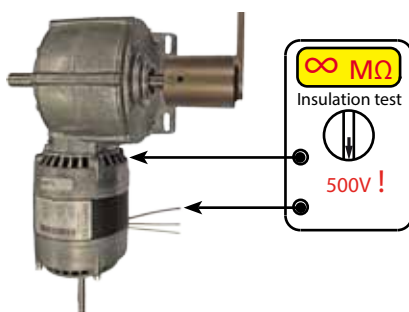
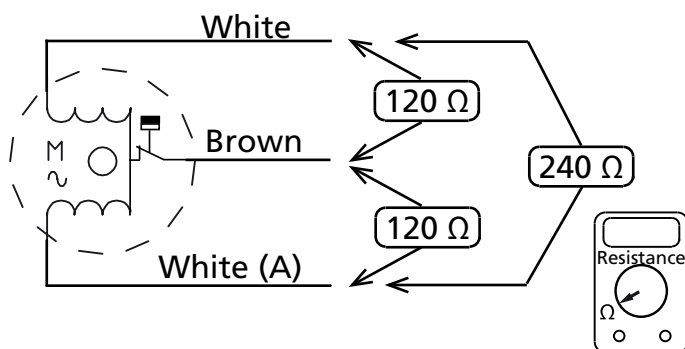
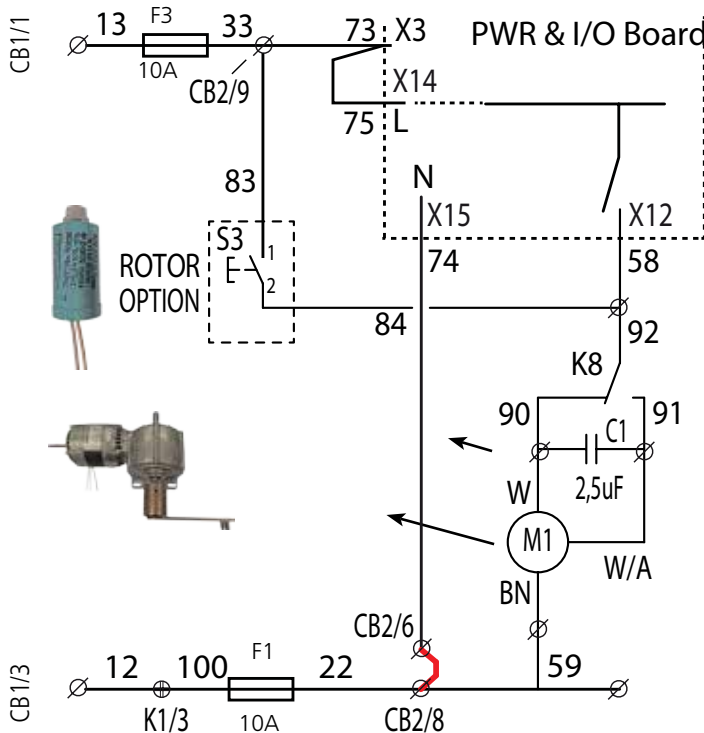


9124141 SERVICE INSTRUCTION ROTOR MOTOR ACR



Connection overview



Working principle:

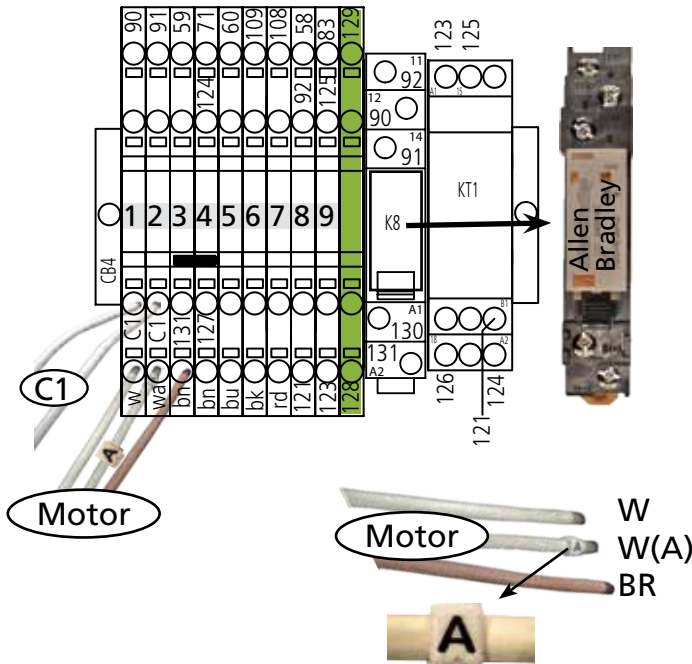
- The motor is directly controlled by the Power & I/O board (output X12).
- A rotor switch is present when the unit is a Pass Through version.
- A 2,5μF capacitor is used to give the motor a good starting torque and rotation direction.
- Since 2016, the K8 relay will reverse the direction during cleaning. K8 is triggered by the drain valve signal.
- A thermistor inside the motor will disconnect the coil in case the temperature exceeds 140°C (284°F). It resets automatically after a cool down period.
- The motor has 1 brown wire and 2 white wires.
- One of the white wires is marked "A" and 5 cm (2") longer. (also mentioned in the diagrams!)

Note that interchanging the two white wires will result in reversing the rotation and this will also effect the cleaning results.

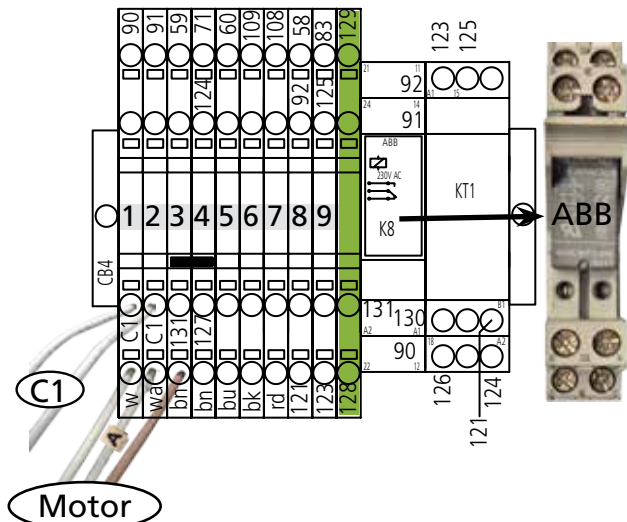
Passive measurements:

120 Ω.	Between brown and white
120 Ω.	Between brown and white (A)
240 Ω.	Between white and white (A)

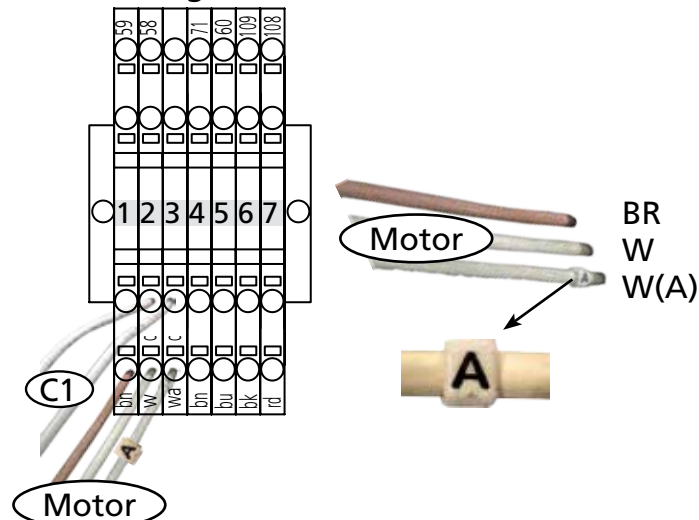
∞ MΩ between any wire and housing



Motor wiring from 2015



Motor wiring untill 2015



Active measurements.

Start the rotor motor by starting a program, or with help of the I/O test feature.

I/O test

Go into the settings screen --> Service --> (pin code 4878) --> I/O test --> MFMB outputs --> X12 (spit/rotor).

Push <OK> the motor gets power for 30 sec.

Push <OK> Power OFF

The diagram below shows the voltages that can be expected in different situations as shown in the pictures.

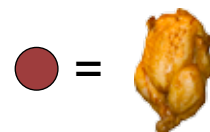
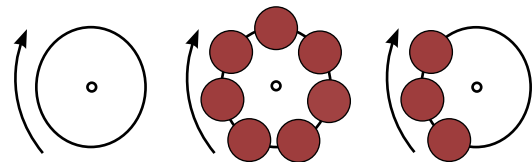
FR --> Free Running

EL --> Equally loaded.

HT --> High Torque.

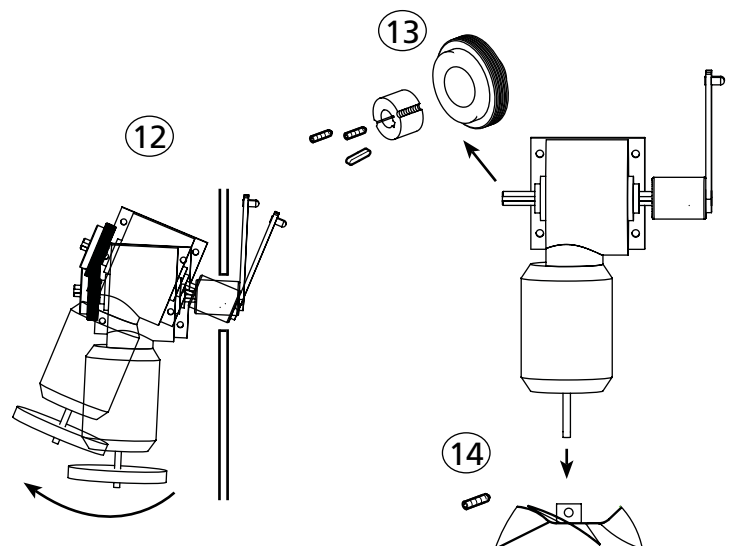
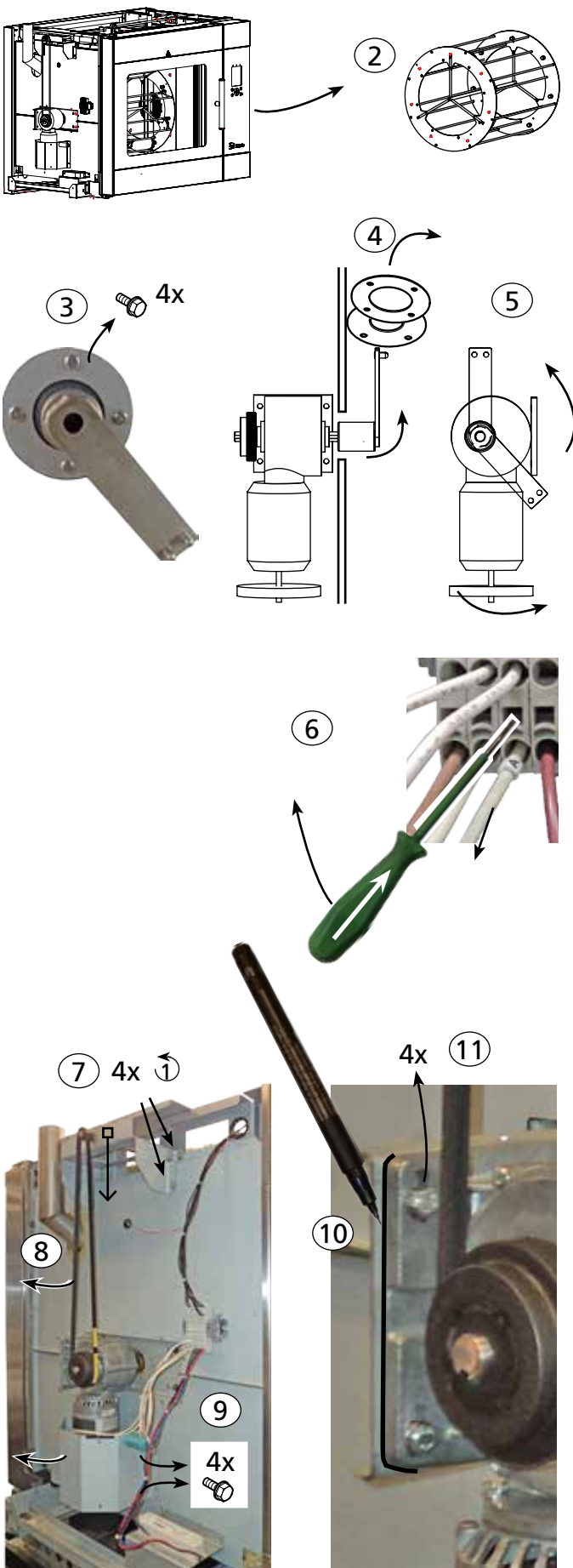
Between wire	V~ (FR)	V~ (EL)	V~ (HT)
Br and W	230	230	230
Br and W(A)	405	340	250
W and W(A)	505	420	300

(FR)	(EL)	(HT)
Free	Equally	High
running	loaded	torque



Disassembling the rotormotor:

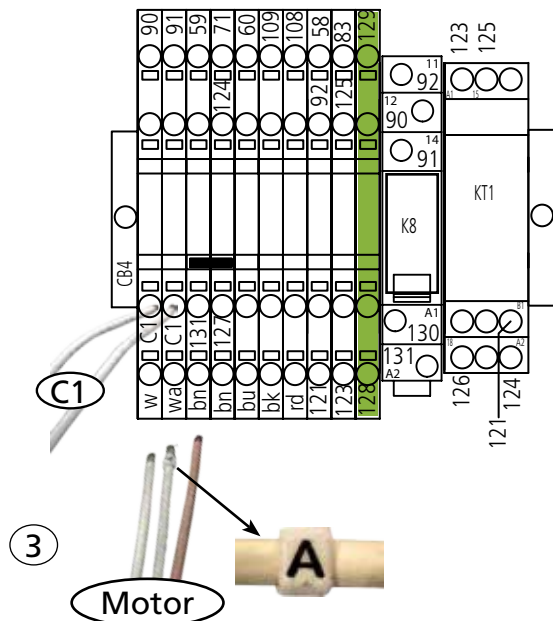
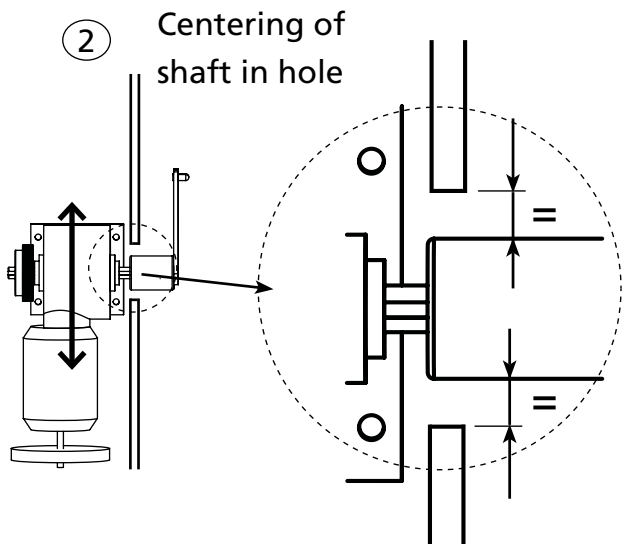
1. Remove the top panel and side panel at the vent side.
2. Take the rotor shaft with discs out of the cooking cavity.
3. Unscrew the 4 bolts from the shaft seal mounting plate.
4. Slide the mounting plate and lip-seal from the drive arm.
5. Put the drive arm in the position as shown. This can be done manually, if necessary, by turning the fan blade on the motor.
6. Disconnect the wiring of the motor.
7. Loosen 4 bolts to release the belt.
8. Take the belt off
9. Unscrew 4 screws and put the air guide aside. Don't put stress on the capacitor wiring. (or unscrew or disconnect the capacitor.
10. Mark the position of the motor on the bracket.
11. Unscrew 4 screws with nuts.
12. Take out the motor as shown.
13. Remove the belt wheel
14. Remove the (cooling) fan blade.

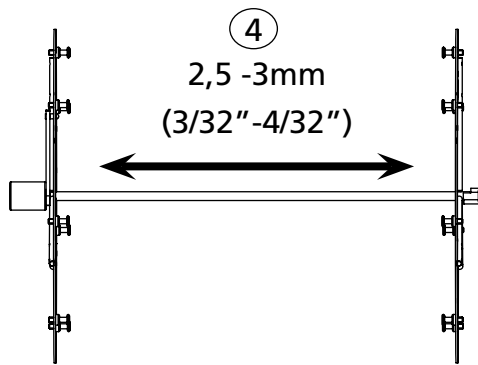


Assembling the rotor motor

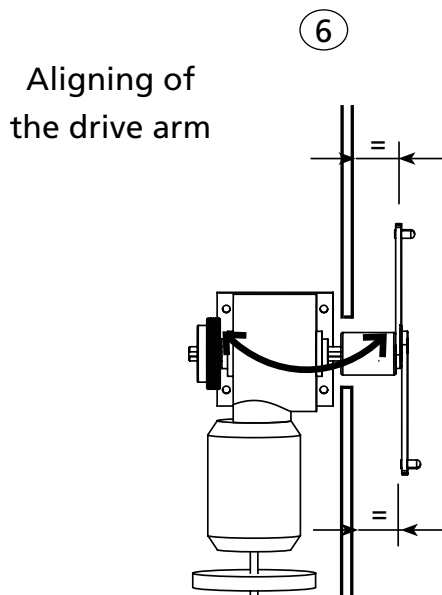
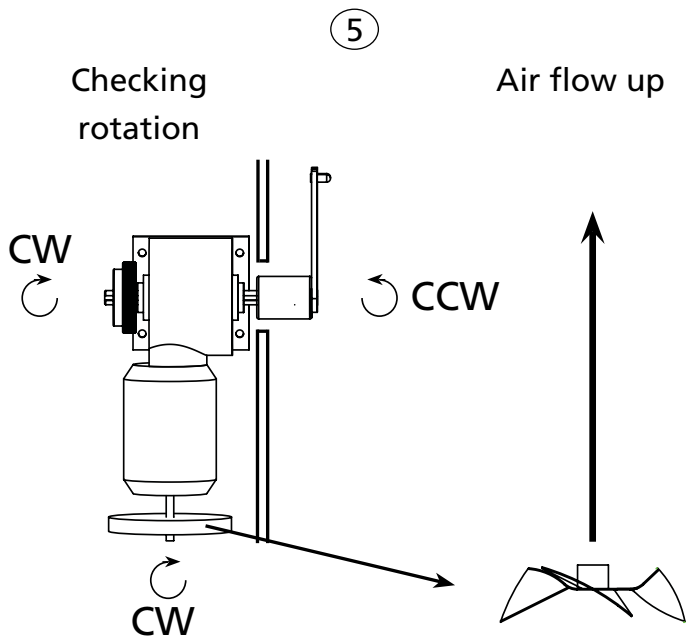
1. Mount the belt wheel and fan blade.
2. Mount the motor on the bracket using the previous made mark (see #10 from disassembling). The motor shaft should come through the center of the hole!!
3. Connect the wiring of the (new) motor.
In case the wires have receptacles mounted, then these have to be cut off and the wires stripped.

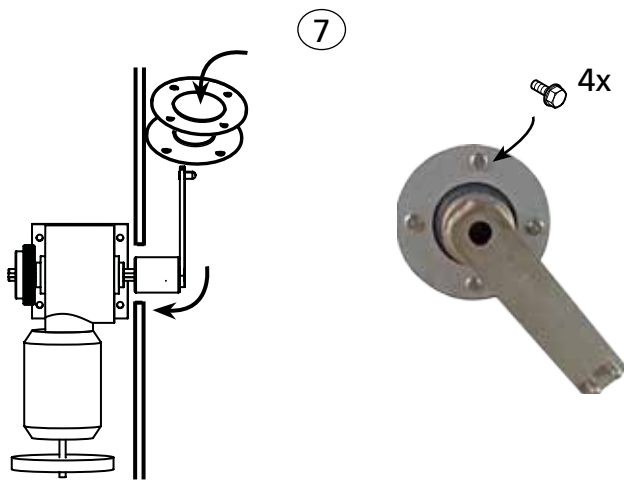
Note that the white wire, marked "A" is 5 cm (2") longer.



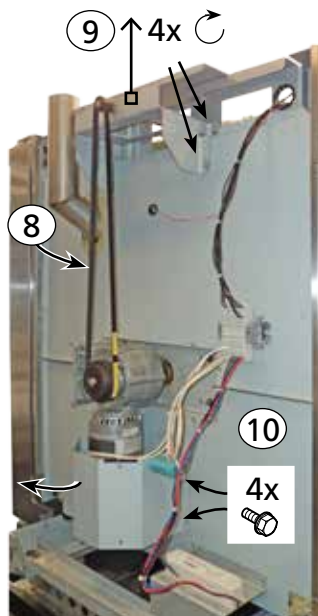


4. Hook in the rotor and check the axial play. This should be 2,5 -3mm (3/32-4/32)
5. Put power on the unit and test the rotation of the rotor.
Interchange the two white wires if wrong.
6. Check if the drive arm in top position has the same distance to the side wall as in bottom position.





7. Mount the lip-seal with mounting plate.
Only if the above is OK!!! The screws should go in easily. No lateral force should come on the seal !! The seal has to be able to position itself around the shaft !! Move the motor, if necessary and go back to #5.
Exceptional it is allowed to widen the mounting holes a little in a certain direction in order to release lateral force.
8. Put the belt back on.
9. Tension the belt with maximum handforce and tighten the 4 screws.
10. Mount the air guide with capacitor.
11. Check again the rotation of the rotor, but now also the spray head in the top.
12. Mount the side- and top panel.



Contents of service kit 9303015s.

- 9303015 Rotor motor.
- 9302031 Shaft seal
- 9077101 Capacitor
- 9124141 This instruction