



REMOVING AND REINSTALLING THE UPPER FINE GRINDING MOTOR AND UPPER FINE GRINDING BEARING



WARNING!

The operations described in this technical data sheet and those contained in the relative video tutorials which can be captured via QR CODE must only be performed by qualified technicians and only after having read the safety information contained in the specific sections of the use and maintenance manual.

When in doubt, do not interpret! Instead directly contact the Colombini Srl technical assistance service at +39 011 8211407 service@colombini.srl

Motor characteristics:

Weight: Kg. 30

Power: 4 kW

Power supply: 400 V. - 50 Hz.

Spare part number: E1.0146



To remove/reinstall the lower fine grinding motor, the following are required:

- a) lifting system with safety hook
- b) bolts with lifting ring and belt
- c) Phillips screwdriver
- d) socket screwdriver - 8 mm,
- e) wrench - 10 mm
- f) Allen screwdriver - 6 mm, 5 mm, 4 mm and 3 mm

REMOVING THE MOTOR

- Remove the machine power supply by turning the main switch to 0.



- Unscrew the motor fan power connector and remove it.
- Unscrew the four screws and withdraw the motor fan.



- Unscrew the four screws and remove the cover of the motor electrical box.



WARNING!

Save/photograph the position and colour of the three power supply cables for subsequent reassembly.

- Using a 8 mm socket screwdriver, unscrew the three nuts and remove them with their washers, and then withdraw the three power supply cables.
- Unscrew the upper screw and remove it with its washer and then withdraw the yellow-green earth cable.

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- Fit the lifting rings on the motor using two threaded hooks. Use the threaded holes found on the upper sides of the motor.
- Secure the belt for lifting to the rings.
- Tighten the rings and make sure that the belt is correctly restrained.



WARNING!

Use an appropriate lifting system compliant with the standards and rated for the load.

Weight of the motor: Kg. 30.

- Save/photograph the correct position of the motor for subsequent reassembly.
- Using a 10 mm wrench, unscrew the eight bolts securing the motor to the machine and remove them with their washers.
- Lift and handle the motor in compliance with the standards.

REMOVING THE UPPER FINE GRINDING BEARING

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- Loosen the four Allen screws securing the motor support using a 6 mm Allen wrench.
- The position of the motor support vs. the timing belt frame is secured by the locking position of an Allen wrench located next to the frame. Loosen the adjusting Allen screw with a 6 mm Allen wrench.
- Push the motor support towards the body of the machine, loosening the timing belt - tensioned on the gear wheel inside the frame - just enough so that it acquires some play.
- Remove the cover for the upper fine grinding motor belt. Use a 4 mm Allen wrench to unscrew the five screws that secure the grille to the frame.

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- Remove the gear wheel guard disc by unscrewing its three screws. Use a 3 mm Allen wrench.
- Release the timing belt from the gear wheel.
- Unscrew the six screws that secure the gear wheel to the motor support. Use a 5 mm Allen wrench.
- Remove the gear wheel.
- Completely unscrew the four Allen screws, previously loosened, of the motor support.
- Extract the motor support from the frame.

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- Place the motor support on a flat and rigid surface.
- Unscrew the three screws securing the locking disc of the central transmission shaft on the motor support. Use a 4 mm Allen wrench. Extract the disc.
- By pressing slightly with your hands, remove the transmission shaft from its seat on the motor support.
- Unscrew the three screws of the bearing cover disc on the motor support. Use a 3 mm Allen wrench.
- By pressing slightly with your hands, extract the ball bearing from the motor support.

REINSTALLING THE UPPER FINE GRINDING BEARING

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- Insert the bearing in its seat on the motor support. Force its correct insertion by pressing slightly with your hands.
- Place the bearing cover disc on the motor block and secure it with the three screws using a 3 mm Allen screwdriver.
- Insert the transmission shaft in its seat in the motor support.
- Position and tighten the motor shaft locking disc. Use a 4 mm Allen wrench to tighten the three screws.
- Insert the motor support in its seat on the equipment frame.

- Tighten without locking the four Allen screws securing the motor block. Make sure that the motor block is not locked in its seat but has the possibility of moving slightly along the longitudinal axis of the frame.

REINSTALLING THE UPPER FINE GRINDING MOTOR

- Correctly position the motor on the machine using the equipment used for removal.



WARNING!

Be careful when inserting the motor.

The contour on the shaft must line up with the contour on the support unit.



WARNING!

If a new motor is to be installed, we recommend greasing the end of the shaft.

- Remove the sling used to handle the motor.
- Remove the two rings and securing bolts.
- Tighten the eight bolts with their washers to secure the motor.
- Reinstall the motor fan.
- Make the electrical connections on the motor and reinstall the cover on the electrical box.
- Hook up the fan power supply connector and secure it with its screw.
- Insert the gear wheel in its seat and secure it with its screws.
- Place the timing belt around the gear wheel.
- Insert and secure the gear wheel guard disc.
- Tighten the Allen screw that adjusts the motor block position until the timing belt reaches a suitable tension on the gear wheel.
- Lock the four screws securing the motor block.
- Reinstall the lower guard grille on the machine frame.

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