14 Service Guidelines

14.1 Replacing the battery

⇒ If the motor is equipped "with integrated multiturn absolute encoder" then include the battery of the feedback electronics into the maintenance program. Nominal lifespan of the battery is approximately ten years.

How to change the battery

⇒ Have the following tools and aids ready:

- torx screwdriver (size 10), pointed pliers, torque key with setting range 1.8 Nm .
- New battery (INDRAMAT part no. 257 101).

DANGER

Danger from electrical voltage!
Battery replacement must be performed while the control voltage is on. Therefore:

⇒ Only fully-trained electricians may conduct the work.

⇒ Power supply to drive controllers must be switched off and secured against being switched back on!

DANGER

Dangerous movements!
Danger to life and limb or property damage!

⇒ Switch power supply to drive controllers off and secure against being switched back on.

⇒ Batteries can only be replaced with control voltage to the drive controllers on. If the control voltage is switched off while the battery is removed, then the absolute dimension will be lost causing faulty movements when the machine is switched back on.

Removing the battery

⇒ Release torx screws (1) with a size 10 screwdriver and pull out.

⇒ Remove the lid of the motor feedback.

⇒ Pull the connector of the battery (2) out.

⇒ Release screw (3) of the clamping device (4) of the battery and remove it.

Mounting the battery

⇒ Insert battery (part no. 257 101) and screw clamping device (4) back into place with screws (3) (tightening torque max. 1.0 Nm).

Note: Do not pinch the battery cable!

⇒ Insert battery connector (2).

⇒ Close the motor feedback lid.

⇒ Tighten torx screws (1) and tighten with the torque key at 1.4 Nm in the MKD025 and 041, to 3.0 Nm in the MKD071, 090 and 112.

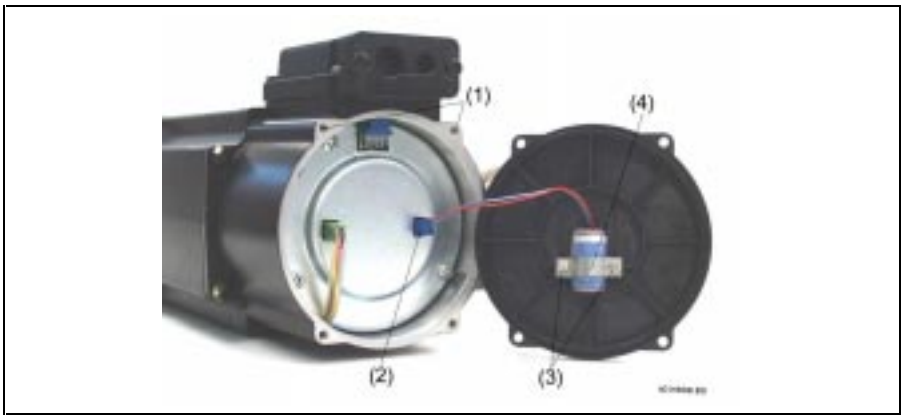

Fig. 14-1: Replacing the battery

Switching machine back on

⇒ Switch power of drive controllers back on.

⇒ Run a test on the axes.