

TORQUE DISPLAY

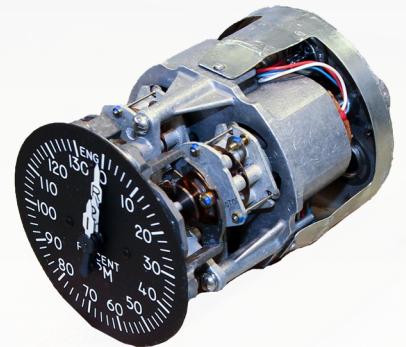
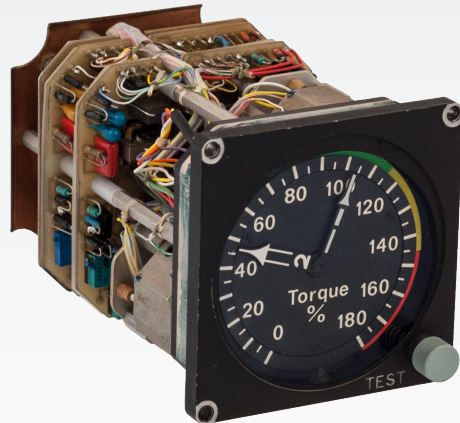
Intended purpose

The torque display has the purpose of displaying the torques of two engines.

Configuration of the device and technical functionality

The device consists of two identical systems which are installed in an hermetically sealed casing which has been filled with a nitrogen/helium mix. Each system consists of a gear assembly with indicator, which is connected with a potentiometer and a motor. The display occurs on a circular scale via a double indicator system with the same pivot point.

The torque is shown as a percentage figure on the scale, with each indicator displaying the torque for one engine. The servo actuator, which is driven by an encoder via an amplifier, adjusts the potentiometer via a precision gear, and therefore the indicator of the display instrument. The amplifier and potentiometer form a bridge connection. The servo mechanism adjusts the loop of the potentiometer until the bridge reaches an electrical balance. The appropriate setting of the potentiometer until the zero adjustment of the bridge is a measurement for the torque of the engine.



Services provided by AUTOFLUG

- Servicing and maintenance (functional testing, application of settings, dismantling and assembly of assembly groups, cleaning and lubrication)
- Repair (replacement of components)
- Tests (for example, electricity and signal drop-out test, display error test, gage test)
- Conservation
- Planning and purchasing of spare parts
- Obsolescence management

The verification of the device requires the availability of a variety of different testing instruments, including:

- Proof voltage testing instrument
- Multimeter
- Voltage divider
- Engine torque measured value amplifier
- Measuring bridge
- Indicator outlet
- Ultrasound cleaning device
- Inductive brazing device