Working instruction No. 4 for TN DG-G-09
DG-1000T

Installation of a fuel cock warning device in the DG-1000T

1. Remove baggage compartment floors and rear wall. Remove front instrument panel cover. Remove the screws holding the rear instrument panel to the cover and swing the instrument panel open (remove the upper part of the control stick first). Remove the screws holding the panel with the sockets for the radio system (in the rear main bulkhead at the upper right hand side), pull out the panel.
   Remove the front DEI-NT and ship it to DG for modification (software version V18 or higher). Reinstall after modification.
2. Assemble switch SI2010-B2 to holder 10R76/1 according to drawing 10R76. Hold this unit to the landing gear box according to drawing 10R76 so that the switch will be activated by the fully open lever of the fuel cock. Mark the dia. 5 mm holes at the LG box. Drill the dia. 5 mm holes through the LG box wall and install the holder according to drawing 10R76 (2 persons necessary).
3. Plug wire 10R76/3 (from switch mounting bolt) to the switch terminal (see drawing 10R76) and install the other end of the wire in addition to the other earth wires at the fuel cock mounting bolt, use a new self-locking nut.
4. Plug wire 10R76/4 (from switch to DEI-NT) to the switch terminal and route it to the front to the room behind the panel with the sockets for the radio system (in the rear main bulkhead at the upper right hand side).
   Route the wire along the Bowdencable outers (for waterballast) up to the front main bulkhead. Slip the wire through the existing hole in the tubular part of the bulkhead and route it to the rear instrument panel (if there is no hole drill a dia. 6 mm hole). From there route the wire through one of the cable tubes to the front instrument panel (use a pull-through aid). Fix wire with cable ties to existing wires.
5. Pull off DEI plug from the DEI and open the plug. Slip the pin of the wire into position 3 of the plug body. Press the pin with a small screwdriver or similar into the body until it engages. Close the plug, insert and secure it to the DEI.
6. Check the function of the fuel cock warning device: With ignition “on“ a warning message must appear on the DEI-NT screen when the fuel cock is not fully open. As soon as you open the fuel cock fully or if you switch off the ignition, the warning message must disappear.
7. Re-install the parts see item 1.

Material list: DG part No. 39000185 Material for TN DG-G-09 fuel cock warning DG-1000T consisting of:

Quantity	Designation
1	drawing 10R76
1	holder 10R76/1
1	switch SI2010-B2
1	self-locking nut M6 DIN985-8 zn
2	bolt M5x16 DIN933-8.8 zn
2	washer5,3 DIN9021 St zn
2	self-locking nut M5 DIN985-8 zn
2	screw M3x20 DIN84-8.8 zn
2	washer 3,2 DIN125 St zn
2	self-locking nut M3 DIN985-8 zn
1	wire from switch to mounting bolt 10R76/3
1	wire from switch to DEI-NT 10R76/4