

FUEL TOTALIZER INDICATING SYSTEM - MAINTENANCE PRACTICES

1. General

A. This section contains description, operation, removal and installation instructions for the fuel totalizer indicating system.

2. Description and Operation

- A. The fuel totalizer system is available to aid the pilot in monitoring total fuel consumed each flight. The totalizer system utilizes fuel flow indicator system circuitry and an additional signal conditioner and totalizer indicator to display pounds of fuel consumed. The indicator is located on right side of instrument panel and is labeled FUEL CONSUMED, POUNDS. A five-digit display is centered in the indicator. The display can be reset by means of display reset pushbutton mounted to the left of display. A display pushbutton lock, located below pushbutton, can be rotated to engage the button and prevent inadvertent zeroing of display. The fuel flow indicator and fuel totalizer systems are protected by pull-off type circuit breakers, labeled FUEL FLOW and FUEL TOTAL, respectively.
- B. In operation, the fuel flow transducer in the standard fuel system generates an electrical signal which is proportional to fuel flow rate and transmits this signal to standard fuel flow indicator, where it is registered in pounds per hour. The voltage output from fuel flow indicator is then sent to a totalizer signal conditioner where it is conditioned and sent to the fuel totalizer indicator, which displays its value to the pilot in total pounds of fuel consumed. On Airplanes 20800001 Thru 20800034, the totalizer signal conditioner is located on the cowl deck lower surface, forward of left and right fuel quantity indicators. On Airplanes 20800035 and On and 208B0001 and On, the totalizer signal conditioner is located on the aft side of the firewall.

3. Signal Conditioner Removal/Installation

- A. Remove Signal Conditioner (Refer to Figure 201).
- (1) Ensure electrical power is OFF.
 - (2) Remove nine screws (3) securing cowl deck access cover (2) to cowl deck.
 - (3) Remove cowl deck access cover (2).
 - (4) Disconnect electrical connector (6) from signal conditioner (5).
 - (5) On Airplanes 20800001 Thru 20800034, remove (four each) screws (1) and nuts (4) securing signal conditioner (5) to lower surface of cowl deck.
 - (6) On Airplanes 20800035 and On and 208B0001 and On, remove (two each) screws (13) securing conditioner (5) to firewall stiffener (14).
 - (7) Remove signal conditioner up through cowl deck access hole.
- B. Install Signal Conditioner (Refer to Figure 201).
- (1) On Airplanes 20800001 Thru 20800034, place signal conditioner through cowl deck access hole and position it to lower surface of cowl deck. Install (four each) screws (1) and nuts (4) securing signal conditioner (5).
 - (2) On Airplanes 20800035 and On and 208B0001 and On, place signal conditioner through cowl deck access hole and position it to mounting nutplates located in firewall stiffener (14). Install (two each) screws (13) securing signal conditioner (5) to firewall stiffener (14).
 - (3) Connect electrical connector (6) to signal conditioner (5).
 - (4) Position cowl deck access cover on upper surface of cowl deck.
 - (5) Install nine screws (3) securing cowl deck access cover (2) to cowl deck.

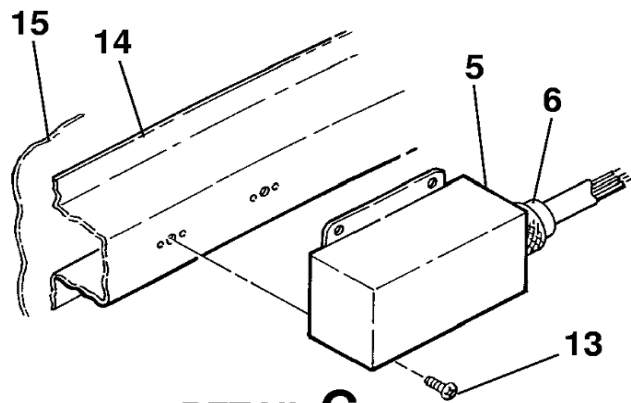
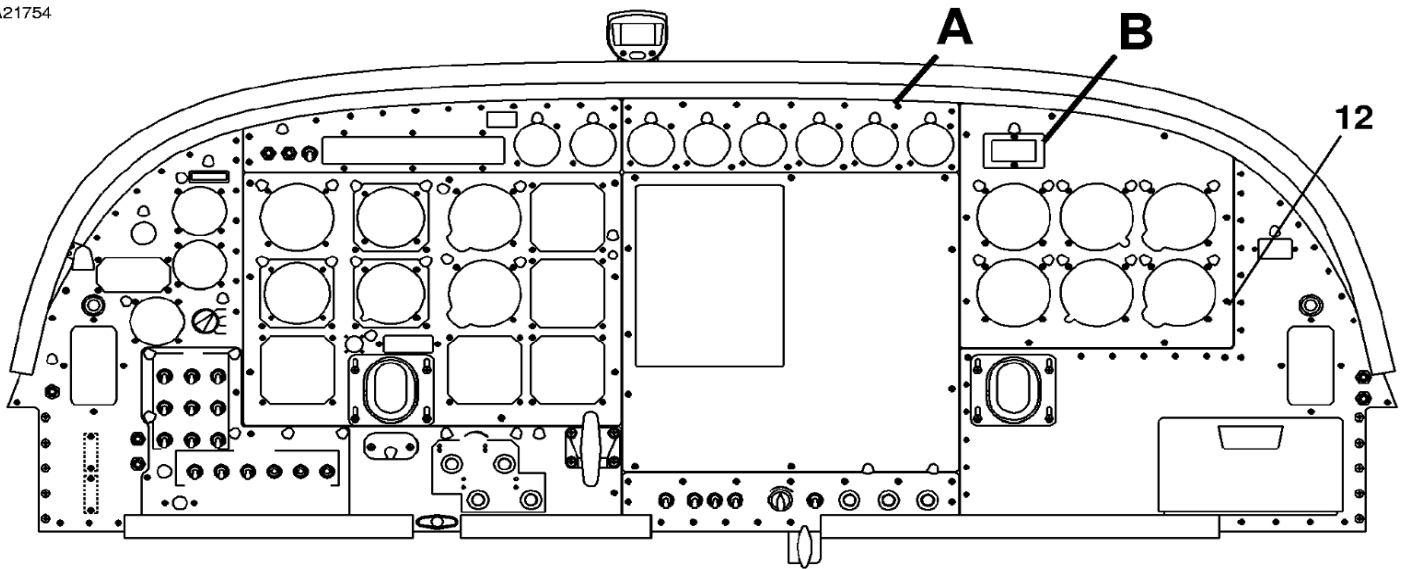
4. Fuel Totalizer Removal/Installation

- A. Remove Fuel Totalizer (Refer to Figure 201).
- (1) Ensure electrical power is OFF.
 - (2) Remove nine screws (12) securing right removable flight panel and slide panel aft to gain access to nuts (8).
 - (3) Loosen lower clamp screws and remove and identify electrical leads (10) and (11).
 - (4) Remove (two each) screws (7) and nuts (8) securing fuel totalizer indicator (9) to flight panel.
 - (5) Slide fuel totalizer indicator (9) aft out of flight panel.
- B. Install Fuel Totalizer (Refer to Figure 201).
- (1) Slide fuel totalizer indicator (9) forward through right flight panel.
 - (2) Install (two each) screws (7) and nuts (8) securing fuel totalizer indicator to flight panel.

- (3) Identify and install electrical leads (10) and (11), and secure by tightening lower clamp screws.
- (4) Slide right removable flight panel forward and secure with nine screws (12).

Figure 201 : Sheet 1 : Fuel Totalizer System Installation

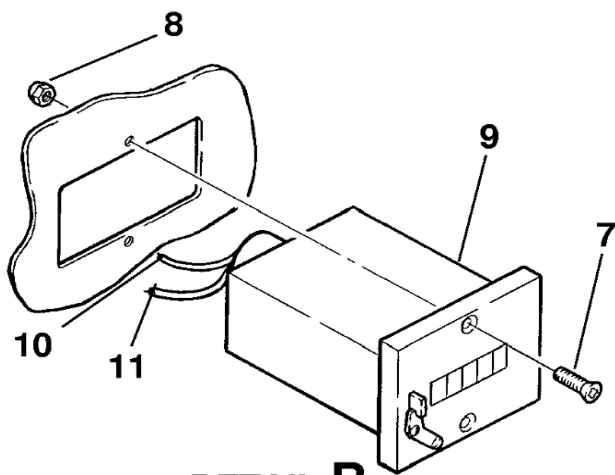
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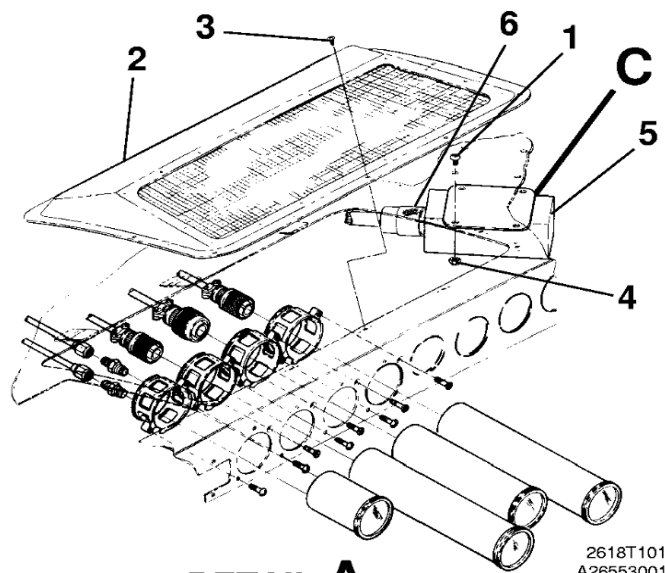
DETAIL C

AIRPLANES 20800035 AND ON
AND 208B0001 AND ON

1. SCREW
2. COWL DECK ACCESS COVER
3. SCREW
4. NUT
5. SIGNAL CONDITIONER
6. ELECTRICAL CONNECTOR
7. SCREW
8. NUT
9. FUEL TOTALIZER INDICATOR
10. ELECTRICAL LEAD
11. ELECTRICAL LEAD
12. SCREW
13. SCREW
14. FIREWALL STIFFENER
15. FIREWALL



DETAIL B



DETAIL A

2618T1015
A26553001
B26161017
C26561022