

Thrust Reverser Control Switch Troubleshooting and Repair

Start the clock.

Lock-out/Tag-out

- A. Retrieve the tooling and equipment necessary for this task from the storage bench.
- B. Pull and tag the following circuit breakers:

P18-2 Circuit Breaker Panel

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT
B	5	C00276	ENGINE 1 THRUST REVERSER CONT
B	8	C01103	ENGINE 1 START VALVE

P6-2 Circuit Breaker Panel

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C00440	FLIGHT CONTROL AUTO SPEED BRAKE
C	4	C00154	ENGINE 2 START VALVE
C	7	C00277	ENGINE 2 THRUST REVERSER CONT
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

P8 Pedestal

WX Radar

- C. Place the engine start levers in the CUTOFF position.
 - a. Attach a DO NOT OPERATE tag to the levers.

Access

Retrieve the tooling necessary for this task.

- A. Remove P454 panel.

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Testing

- A. Retrieve the Fluke289 multimeter and test leads.
- B. Locate connector D7377J and disconnect plug D7377P.
- C. Rotate the dial to select the Ω function on the meter.
- D. Turn the Fluke 289 meter on by pushing the green power button.
- E. Connect the test leads to sockets 3 and 4 on D7377J.
- F. The measured resistance will read "OL."
- G. Lift the #1 Thrust Reverser Lever to the stop.
- H. The measured resistance should read less than 1 ohm.
 - a. **Record the resistance value _____**
- I. Stow the Thrust Reverser Lever.
- J. Remove the test leads from connector D7377J.
- K. Locate the connector D7378J and disconnect plug D7378P.
- L. Connect the test leads to sockets 5 and 6 on D7378J.
- M. The measured resistance will read "OL."
- N. Lift the #2 Thrust Reverser Lever to the stop.
- O. The measured resistance should read less than 1 ohm.
 - a. **Record the resistance value _____**
- P. Stow the Thrust Reverser Lever.
- Q. If either switch has a measured resistance above 3 ohms, replace the switch.
Note: If only one switch is found to be defective, it is permissible to reinstall the serviceable switch connector.

Switch Replacement

- A. Gain access to the faulty switch through the cover on the inside of the thrust lever.
- B. Physically and verbally identify the faulty switch to the judge.**
- C. If the correct switch has been identified, the judge will correct the fault, and the switch replacement will be complete.

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Switch Adjustment Verification

- A. Install the protractor onto the Thrust Reverser Lever.
 - 1. Install the protractor G76002-42 on the Thrust Reverser Lever that corresponds to the switch that was changed, and zero the protractor.
 - a. Orient the protractor in the correct direction by observing the arrow on the casting.
 - b. Slide protractor the over lifting knob of the corresponding Thrust Reverse Lever.
 - c. Keeping the protractor vertical, securely tighten both knurled screws by hand to fasten the protractor to the Thrust Reverser knob.
 - d. Turn on the protractor indicator by pushing the ON/OFF button and press the “light bulb” button.
 - e. Press the ZERO button on the protractor and verify the indicator reads 0 +/- 1 degrees.
 - 2. With the Fluke 289 meter in the same configuration as above, connect the test leads of the multimeter to the Connector and socket combination that corresponds to switch that was changed.

Connector	Sockets	System
D7377J	3 and 4	#1 Thrust Reverser
D7378J	5 and 6	#2 Thrust Reverser

- 3. Slowly raise the Thrust Reverser lever to 19 +/- 3 degrees.
Note: Do not lift the Thrust Reverser lever by the protractor body.
- 4. **Visually and verbally identify the protractor reading with the judge.**
- 5. The measured resistance on the multimeter will read less than 1 ohm.
- 6. Continue to raise the Thrust Reverser Lever until the stop.
- 7. Ensure that the measured resistance remains less than 3 ohms.

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Task Completion

- A. Stow the Thrust Reverser Lever and remove the protractor.
- B. Remove the test leads from the connector.
- C. Reconnect D7377J and D7377P.
- D. Reconnect D7378J and D7378P.
- E. Check for FOD and tools.
- F. Install the throttle lever panel onto the throttle lever.
- G. Install panel P454.
- H. Remove the lock out tags and reset the circuit breakers that were pulled.
- I. Return lock out tags and circuit breaker collars to stowage hanger.
- J. Return the tools to their place on the table.

Event Completion

- A. Stop the clock.

Note: When the clock is stopped by the competitor, the task is complete, and no clock re-start will be allowed

Inform the judge that you have completed the task.

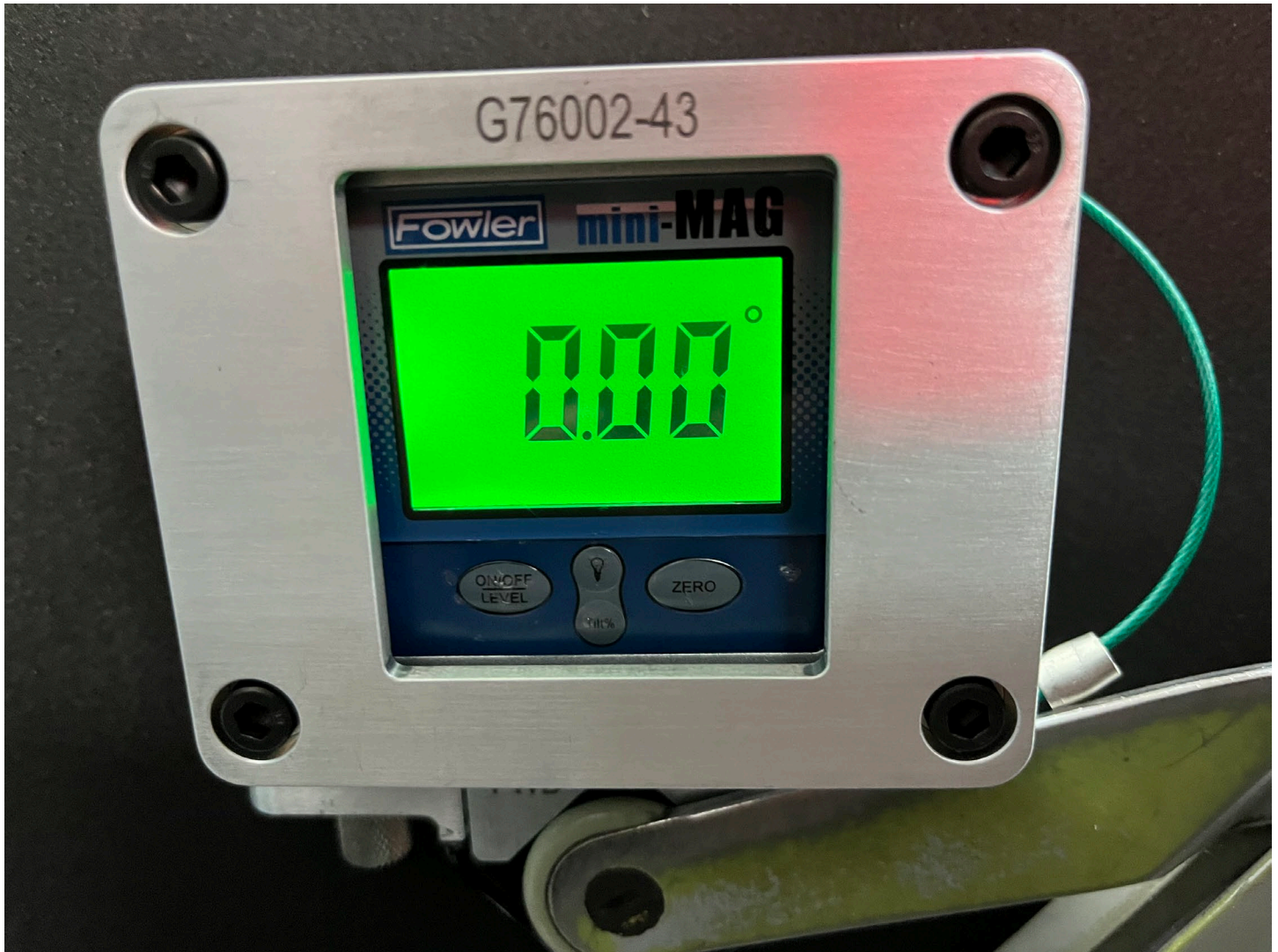
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-----END TASK-----