

## APU FADEC - ADJUSTMENT/TEST

*EFFECTIVITY: AIRCRAFT WITH APU T-62T-40C14*

### 1. General

- A. This section gives the procedures to do the checks of the APU - FADEC BITE Display and the APU-FADEC Power-Supply Components.
- B. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
49-64-03-700-801-A ◆	APU FADEC - OPERATIONAL CHECK	AIRCRAFT WITH APU T-62T-40C14

TASK 49-64-03-700-801-A

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## 2. APU FADEC - OPERATIONAL CHECK

### A. General

- (1) The function of this check is to make sure that there are no advisory faults in the APU FADEC and that the APU-FADEC power-supply circuitry is in good condition.
- (2) These advisory faults do not cause an APU shutdown and are not shown on the MFD.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 49-02-00/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 49-13-00-910-802-A/200	APU - START
AMM TASK 49-13-00-910-803-A/200	APU - SHUTDOWN

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Rear electronic compartment

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 044	Headset, ramp handling	Communication	

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the rear electronic compartment	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Cockpit/Rear electronic compartment

I. Preparation

*SUBTASK 841-002-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 49-02-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) Put the ladder in position and open rear electronic compartment access door 272DR (AMM MPP 06-41-01/100).

J. Operational Check of the APU FADEC

*SUBTASK 710-002-A*

- (1) Do the operational check of the APU FADEC as follows:
  - (a) Do the operational check of the FADEC Bite Display for advisory faults (SUBTASK 49-64-03-710-002-A00).
  - (b) Do the operational check of the APU-FADEC Power-Supply Components (SUBTASK 49-64-03-710-003-A00).

K. Operational Check of the APU - FADEC BITE Display for Advisory Faults ([Figure 501](#))

*SUBTASK 710-003-A*

- (1) Start the APU ( [AMM TASK 49-13-00-910-802-A/200](#)).
- (2) Run the APU until it gets 95% speed and wait for 3 minutes in this condition ("Ready To Load" condition).
- (3) Shut the APU down ( [AMM TASK 49-13-00-910-803-A/200](#)) and keep the APU master switch in the ON position.

**NOTE:** Shut the APU down, but do not deenergize the aircraft.
- (4) Look at the APU - FADEC BITE display ([Figure 501](#)) to make sure that there are no advisory messages.
- (5) If an advisory message is shown, do the troubleshooting. Refer to the latest revision of Hamilton Sundstrand Engine Manual T-62T-40C14 (P/N 4504112), 49-00-00.

L. Operational Check of the APU-FADEC Power-Supply Components ([Figure 502](#))

*SUBTASK 710-004-A*

***EFFECTIVITY: FOR AIRCRAFT POST-MOD S.B. 145-49-0025 OR POST-MOD S.B. 145-49-0032 PART II***

- (1) Obey these instructions to do the check of the APU-FADEC power-supply circuitry:

**NOTE:** This procedure permits you to make sure that these components and their related harnesses are in good conditions:

  - Diode CR0508
  - Diode CR0509
  - Relay K1145
  - (a) Set the APU Master Switch to the ON position

**NOTE:** Make sure that CB0064 (APU Control) on the circuit breaker panel and CB0347 on the left DC distribution box are closed.

Result:

- 1 The APU parameters (RPM and EGT) come into view on the EICAS. Refer to DET. B of [Figure 502](#).
  - 2 The APU indications come into view on the FADEC display.
- (b) Set the APU Master Switch to the OFF position.
- Result:
- 1 The EICAS shows APU OFF after 6 seconds approximately. Refer to DET. B of [Figure 502](#).
  - 2 The APU FADEC is deenergized after 6 seconds approximately.
- (c) Set the APU Master Switch to the ON position.
- Result:
- 1 The APU parameters (RPM and EGT) come into view on the EICAS.
  - 2 The APU indications come into view on the FADEC Display.
- (d) Manually open CB0064.
- Result:
- 1 In approximately 6 seconds, the APU parameters go out of view and the OFF indication comes into view.
  - 2 The APU FADEC is deenergized in approximately 6 seconds.
- (e) Close CB0064.
- Result:
- 1 The APU parameters (RPM and EGT) come into view on the EICAS.
  - 2 The APU indications come into view on the FADEC display.
- (f) Manually open CB0347.
- Result:
- 1 Immediately, the APU parameters go out of view and the OFF indication comes into view.
  - 2 The FADEC display is deenergized immediately.
- (g) Close CB0347.
- (h) Set the APU Master Switch to the OFF position and make sure that circuit breakers CB0064 and CB0347 are closed.

**M. Follow-on**

**SUBTASK 842-002-A**

- (1) Close rear electronic compartment access door 272DR (AMM MPP 06-41-01/100), and remove the ladder.

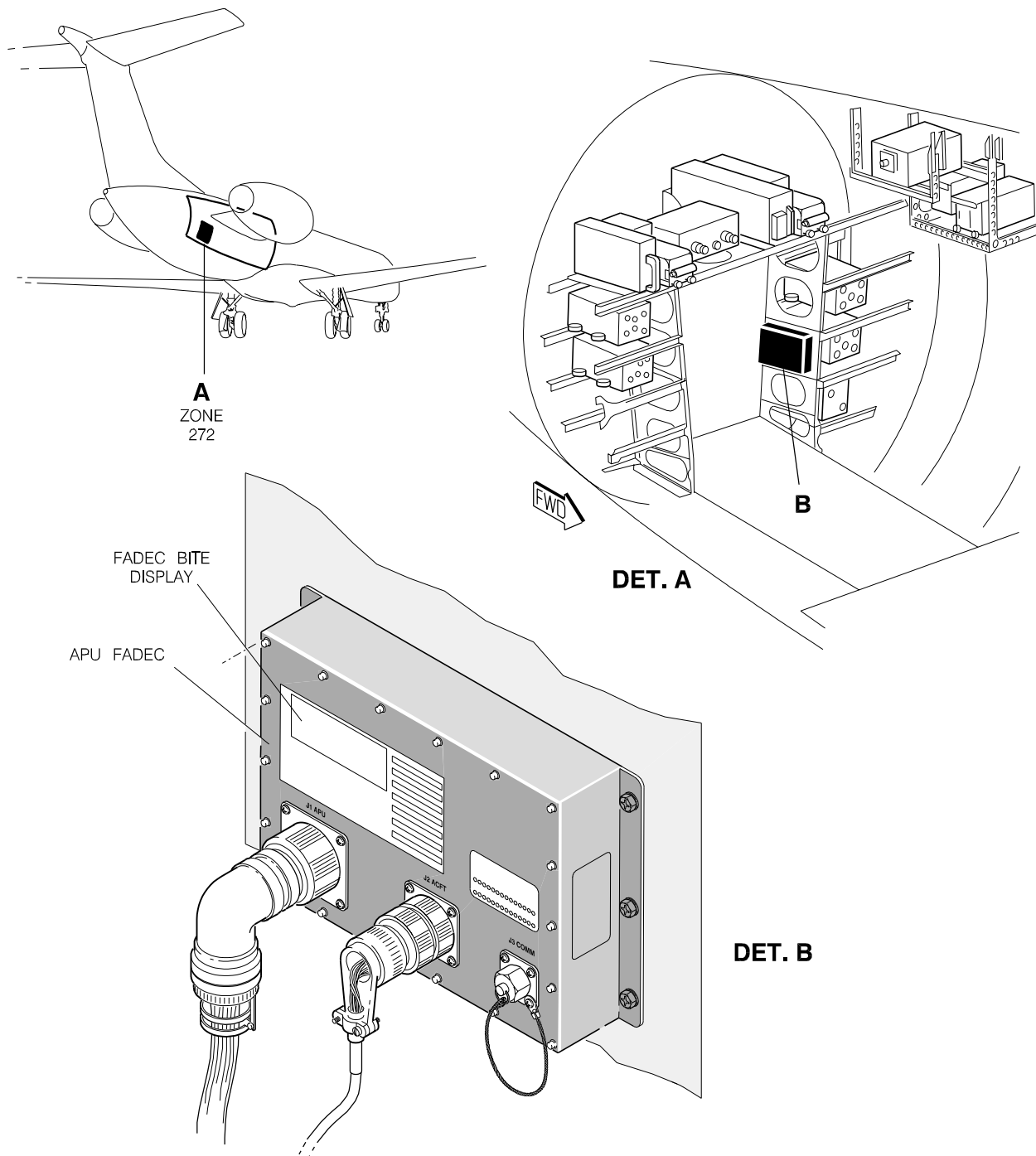
**CAUTION:** BEFORE YOU REMOVE THE EXTERNAL DC POWER SUPPLY, MAKE SURE THAT THE GPU PUSHBUTTON IS SET TO THE OFF POSITION (RELEASED).

- (2) If the GPU was used to energize the aircraft, deenergize it ( [AMM TASK 20-40-01-860-801-A/200](#)) as applicable.

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APU - FADEC Location

Figure 501

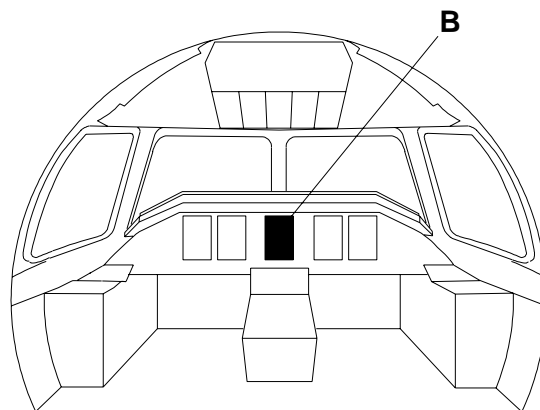
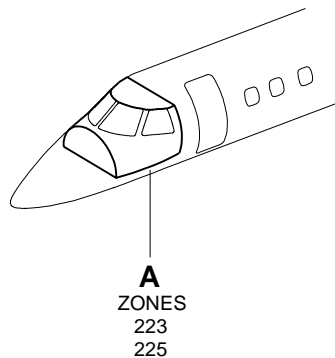


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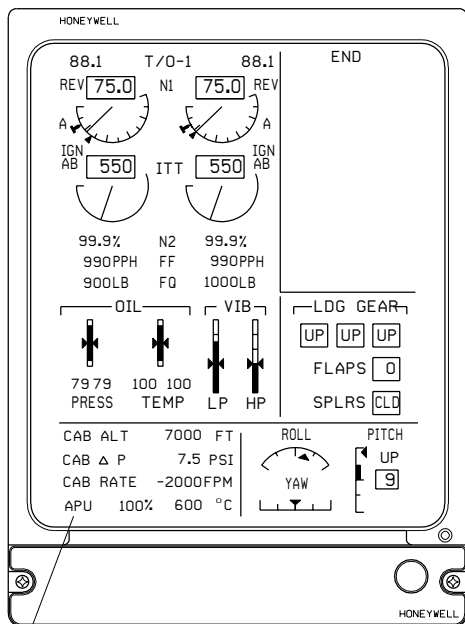
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EICAS - APU Parameters Location

Figure 502



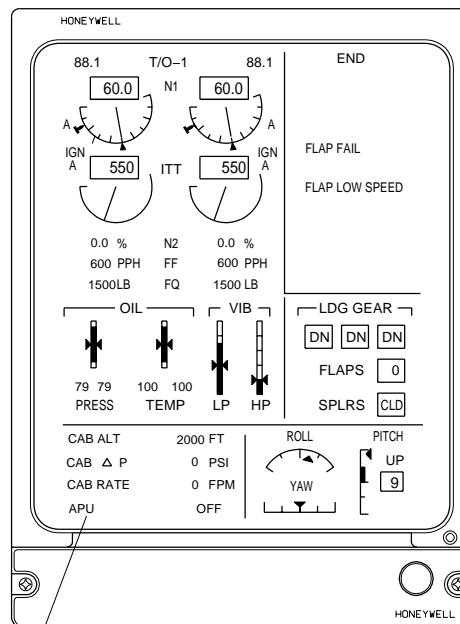
DET. A



APU PARAMETERS

EICAS DISPLAY

DET. B



APU PARAMETERS

EICAS DISPLAY

DET. B

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