

**canadair
challenger**

OPERATING MANUAL
PSP 601A-6

SECTION 3

AURAL/VISUAL WARNING SYSTEMS

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SECTION 3AURAL/VISUAL WARNING SYSTEMS

1. GENERAL

There are two aircraft central warning systems: the aural warning system, which provides audible tones associated with eight significant events, and the master caution and warning system which advises the crew of system malfunctions.

2. AURAL WARNING SYSTEM (Figures 1 and 2)

The aural warning system monitors several events and provides a separate aural warning for each event, as follows:

<u>Event</u>	<u>Warning</u>
Engine fire	Fire bell
Overspeed	Clacker
Airspeed too high for flap setting	Wailer
Stall	Warbler
Incorrect take-off configuration	Intermittent horn
Altitude alert	C chord
Landing gear not down and locked	Horn
HF call detected by selcal unit	Chime
Autopilot disconnect (Aircraft 5041 and 5146)	Cavalry charge

The aural warnings are presented on the flight compartment speakers and the intercom system.

The take-off configuration warning circuitry monitors the throttle setting, landing gear and control surface positions to ensure that they are correct for take-off. If they are not correct and the throttles are advanced towards take-off power, the take-off configuration warning circuitry provides an output to the aural warning system to sound the intermittent horn.

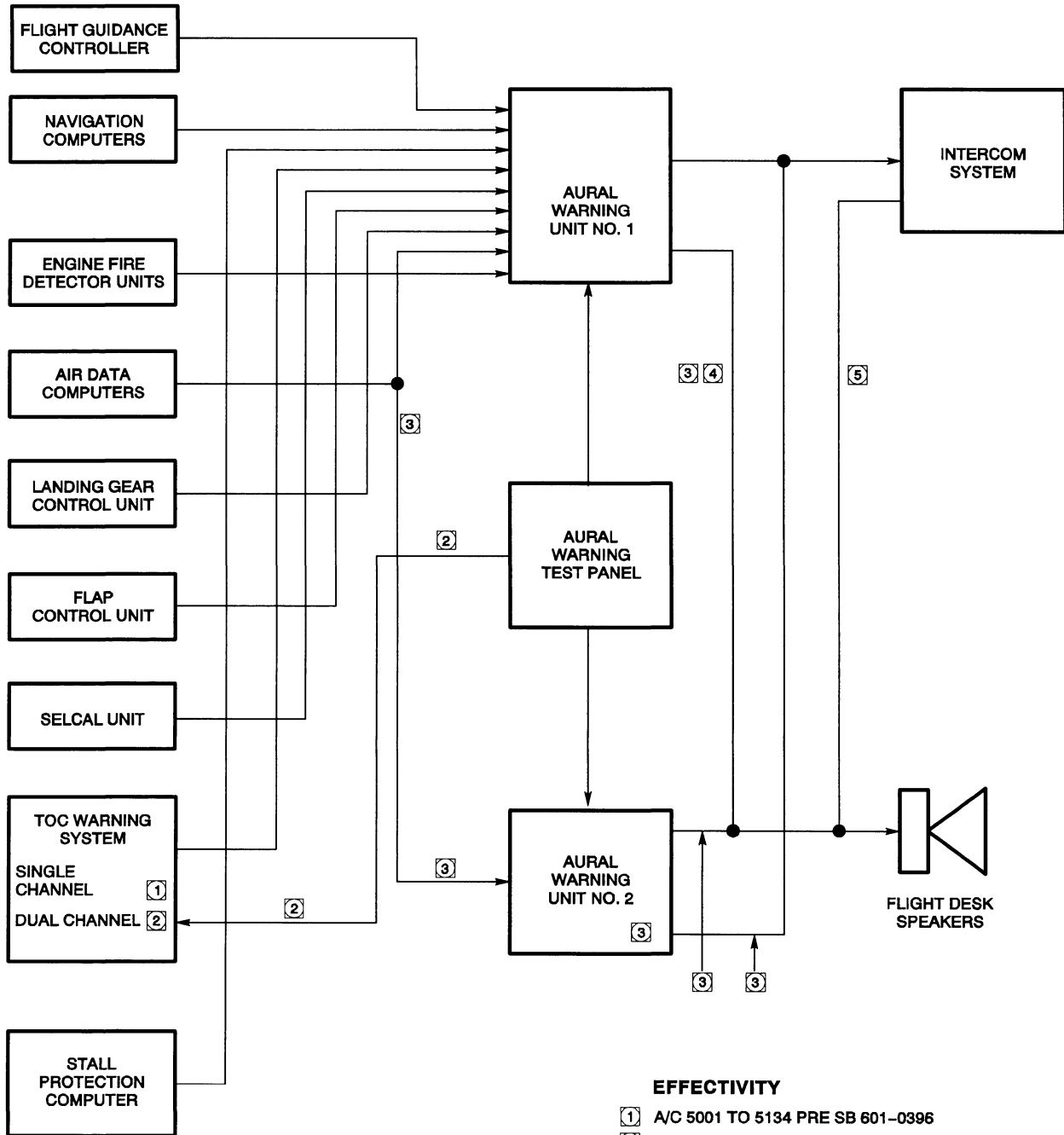
The aural warning system consists of the aural warning unit and test panel.

On aircraft 5041 and 5146, the aural warning system consists of two aural warning units and a test panel.

3. MASTER CAUTION AND WARNING SYSTEM (Figures 3 through 6)

The master caution and warning system is an indicating system that provides the flight crew with aircraft system caution, warning, advisory and safe indication annunciations. Cautions are annunciated by amber lights, warnings are annunciated by red lights and advisories and safe indications are annunciated by white or green lights, depending on the function of the light. The annunciator lights are not part of the master caution and warning system, but are part of the systems that the lights concern. The related systems are shown in Figure 3.

Legends on the 10-channel and 8-channel annunciator panels also come on (amber) to identify the malfunctioning system. Two master caution lights, located on the glareshield, flash (white) to indicate an active caution annunciation on the 10-channel or 8-channel annunciator panel. Warning, advisory and safe indication annunciations do not trigger the master caution lights or the legends on the 10-channel or 8-channel annunciator panels.

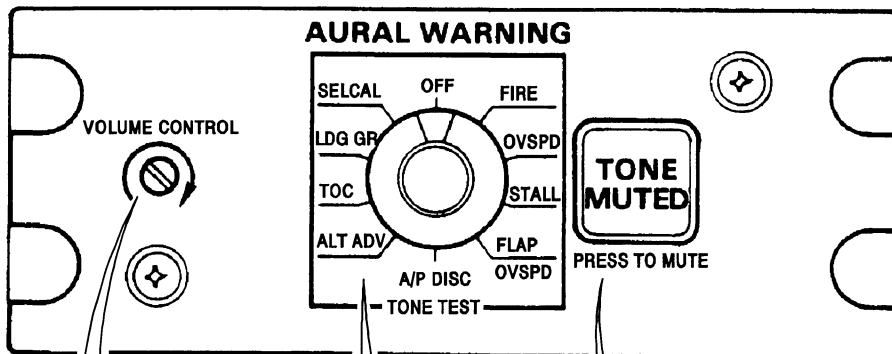


EFFECTIVITY

- ① A/C 5001 TO 5134 PRE SB 601-0396
- ② A/C POST SB 601-0396 AND A/C 5135 & SUBS
- ③ A/C 5041 AND 5146
- ④ A/C 5001 TO 5099 PRE SB 601-0390
- ⑤ A/C POST SB 601-0390 AND A/C 5100 & SUBS

Aural Warning System -
Simplified Block Diagram
Figure 1

EFFECTIVITY : A/C 5041 AND 5146



VOLUME CONTROL

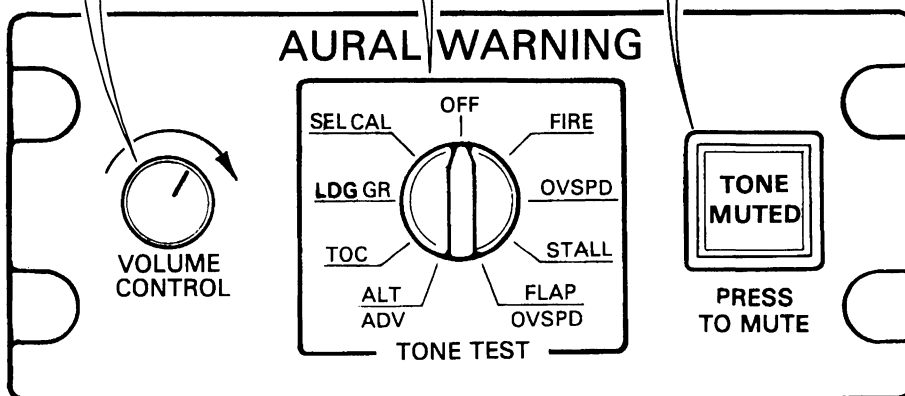
Adjusts the level of the audio output.

TONE TEST SWITCH

Selects the aural warning for testing purposes.

TONE MUTED SWITCH/LIGHT

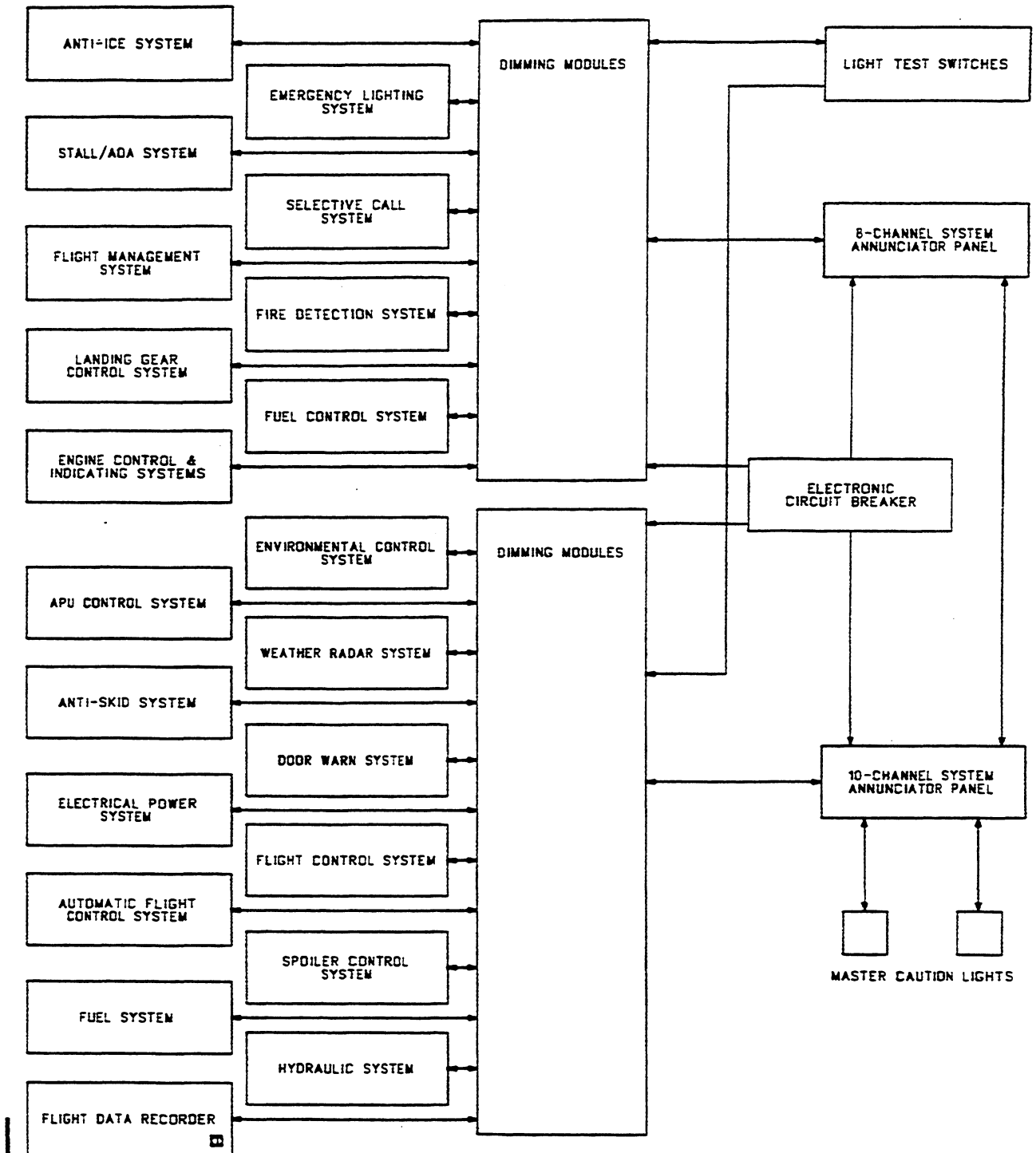
Mutes the fire bell and wailer aural warnings.



EFFECTIVITY : A/C 5001 TO 5040, 5042 TO 5145 AND 5147 AND SUBS

COPLOT'S SIDE PANEL

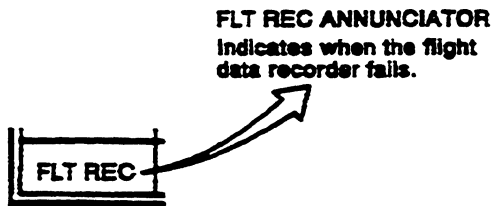
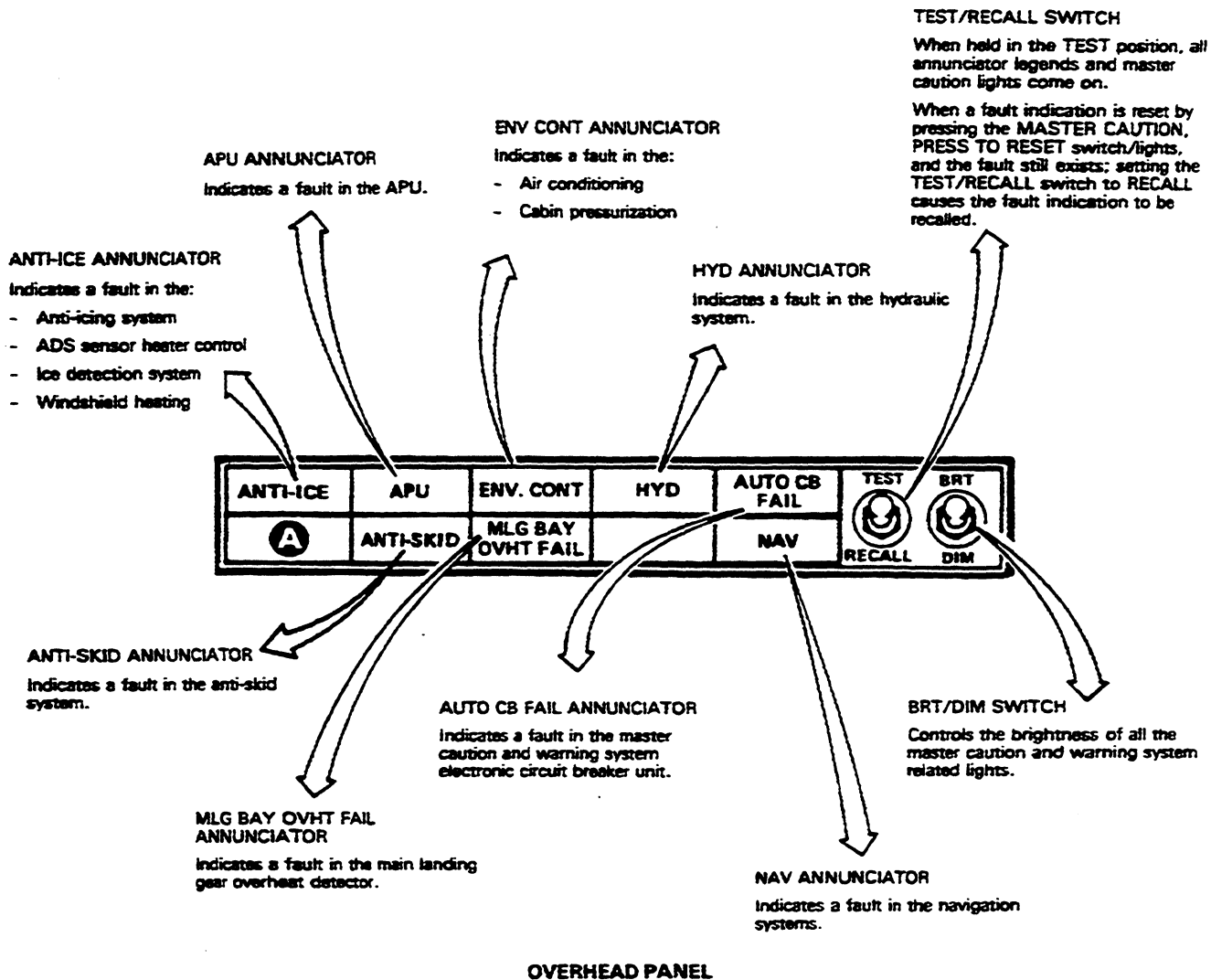
Aural Warning Test Panel
Figure 2



EFFECTIVITY:

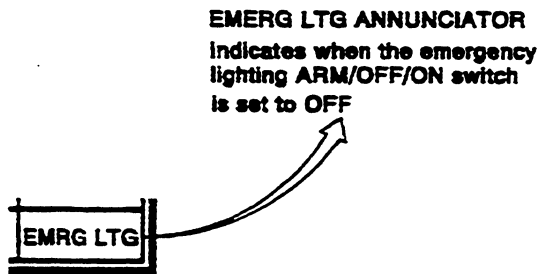
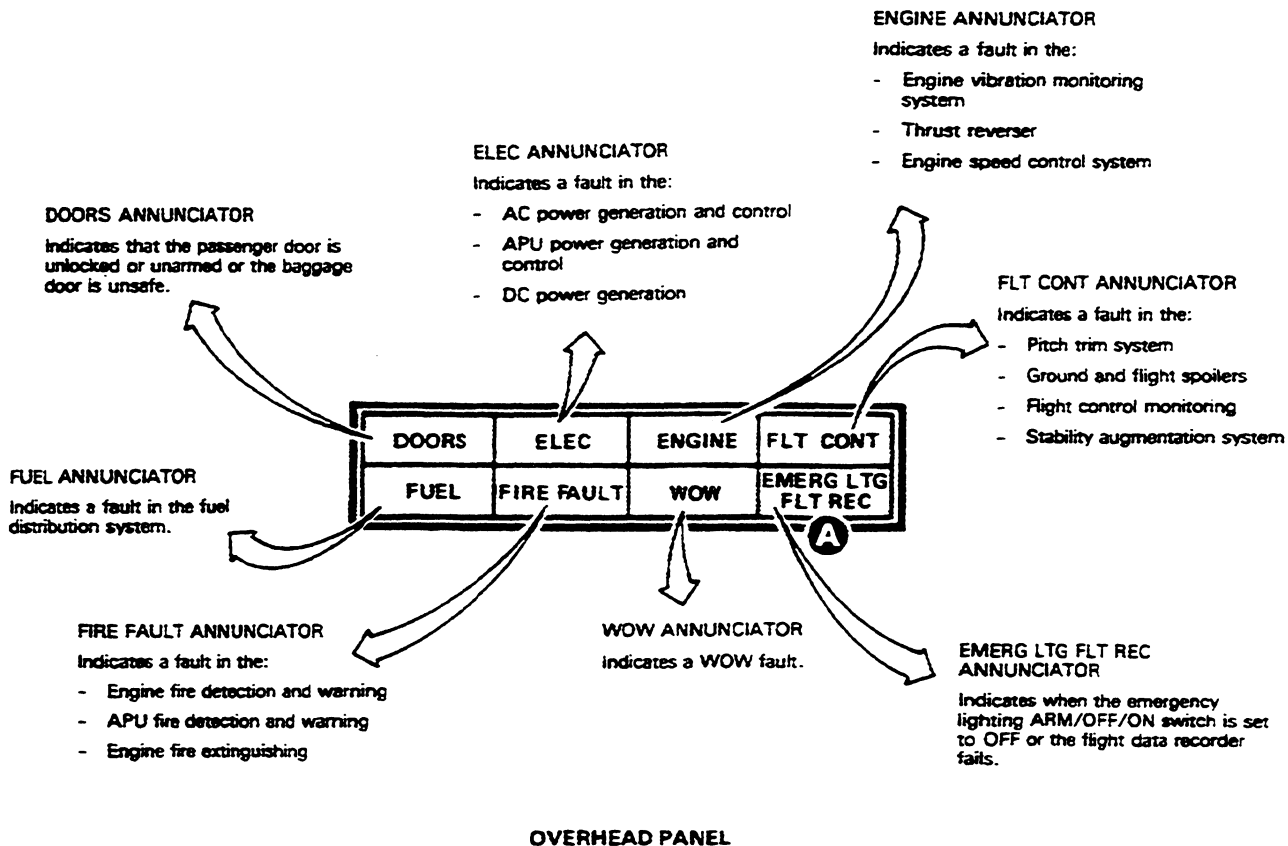
POST SB 601-0394

Master Caution and Warning System -
Simplified Block Diagram
Figure 3



EFFECTIVITY: POST SB 601-0394

A

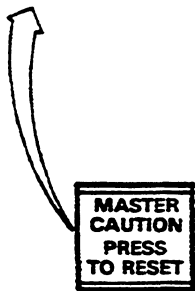


EFFECTIVITY: POST 88 601-0384



**MASTER CAUTION PRESS TO
RESET SWITCH/LIGHT**

Flashes to indicate an active caution annunciator on the 10 or 8-channel annunciator panel. When pressed, the switch/light resets itself and the annunciator on the 10 or 8-channel annunciator panel.



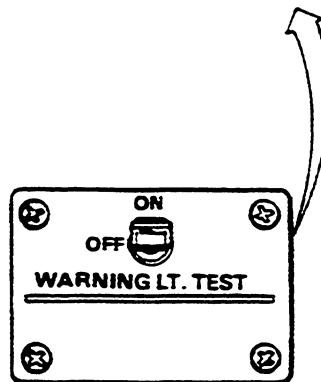
GLARESHIELD

**WARN LTS AND WARNING LT
TEST SWITCHES**

When set to the TEST or ON position, as applicable, all the master caution related lights are turned on.



**PILOT'S AND COPILOT'S
FACIA PANEL**



CENTRE PEDESTAL