

**Chapter 10 WARNING AND FIRE PROTECTION****LIST OF CONTENTS**

	<i>Warning systems</i> ... ..	<i>Chap</i> <i>10A</i>
*	<i>Fire protection systems</i> ... ..	<i>10B</i>
*	<i>Refer to AP 101B-1202-1B, Cover 1, Sect 6, Chap 10</i>	

## Chapter 10A WARNING SYSTEMS

### LIST OF CONTENTS

	Para
<i>Introduction</i> ... ..	1
<i>General</i> ... ..	2
<i>Pilot's NBC fan failure warning...</i> ... ..	3
<i>Navigator's NBC fan failure warning...</i> ... ..	4
<i>Cancel push switch</i> ... ..	5

### ILLUSTRATION

<i>Standard warning system — theoretical</i> ... ..	Fig. 1-1a
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#### Introduction

1. With the exception of the differences described in this Chapter, the warning circuits on Mk.2B aircraft are identical to those described in AP 101B-1202-1B, Cover 1, Sect 6, Chap 10A. Wiring details are in Sect 16 of AP 101B-1202-10B1.

#### General

2. On embodiment of Mod 1692, ventilation systems are introduced to provide protection for the aircrew against nuclear, biological and chemical (NBC) contamination. The installation comprises separate systems for pilot and navigator, with individual fan failure warning circuits. The pilot's warning circuit is connected to the standard warning system (SWS) with an associated caption included in the standard warning panel, while the navigator's warning circuit includes a separate indicator module. The NBC installation is described in Sect 13, Chap 8B.

#### Pilot's NBC fan failure warning (Fig. 1-1a)

3. In addition to the services listed in Section 6, Chapter 10A of AP 101B-1202-1B, the SWS is activated in the event of failure of the pilot's NBC system fan. Fan failure is detected by a hazard warning unit which monitors the power

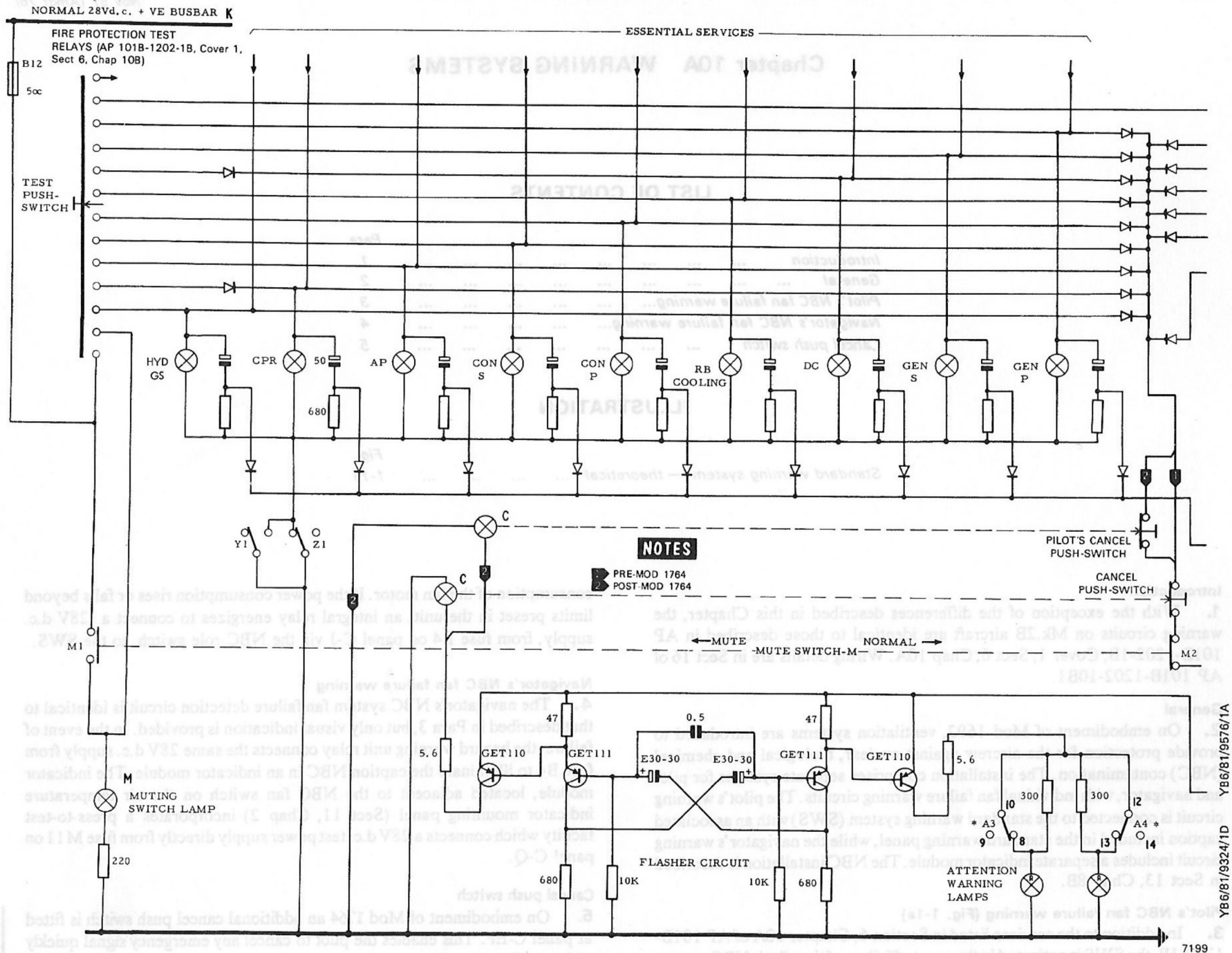
consumption of the fan motor. If the power consumption rises or falls beyond limits preset in the unit, an integral relay energizes to connect a 28V d.c. supply, from fuse B4 on panel C-J via the NBC role switch, to the SWS.

#### Navigator's NBC fan failure warning

4. The navigator's NBC system fan failure detection circuit is identical to that described in Para 3, but only visual indication is provided. In the event of failure, the hazard warning unit relay connects the same 28V d.c. supply from fuse B4 to illuminate the caption NBC in an indicator module. The indicator module, located adjacent to the NBC fan switch on the air temperature indicator mounting panel (Sect 11, Chap 2) incorporates a press-to-test facility which connects a 28V d.c. test power supply directly from fuse M11 on panel C-Q.

#### Cancel push switch

5. On embodiment of Mod 1764 an additional cancel push switch is fitted at panel C-EP. This enables the pilot to cancel any emergency signal quickly without diverting his attention away from handling the cause of the emergency situation that has arisen.



**Fig. 1 Standard warning system - theoretical**  
(Mod 1764 incorporated)

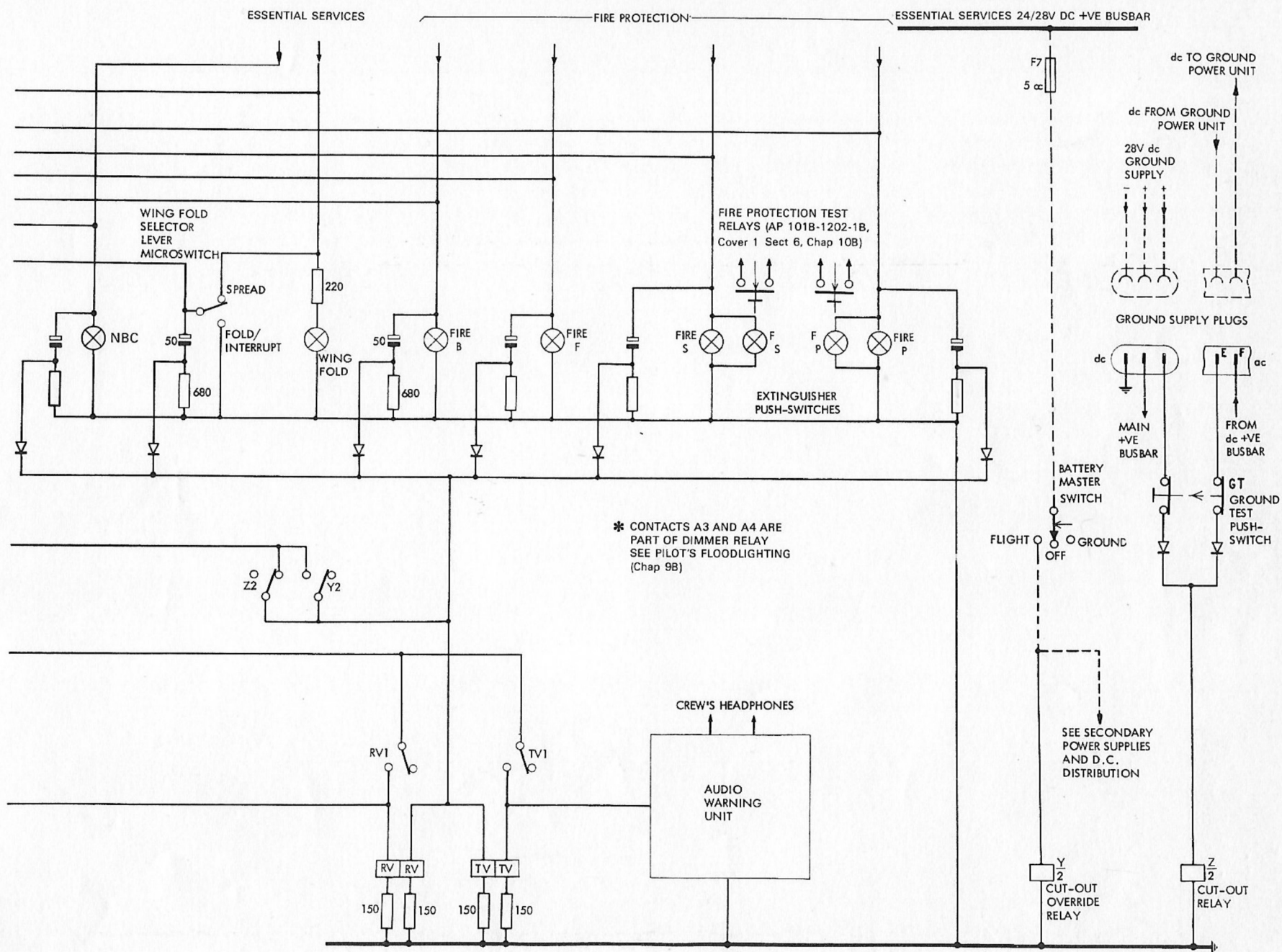


Fig. 1a Standard warning system - theoretical  
(Mod 1692 incorporated)