Chapter 2

AIRFRAME SIMULATOR (ROCKET PACK) TEST BOX

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LEADING PARTICULARS

Airframe simulator test box	*Ref. No.* /
Dimensions:—	
Length	15·25 *in.*
Width	8 *in.*
Height	9 *in.*
Weight	14·75 *lb.*
Input voltage	24-28 *d.c.*

Introduction

1. The Airframe Simulator (Rocket Pack) Test Box provides facilities for ground testing the 2 in. Rocket Pack (A.P.2802A, Vol. 1, Parts 1 and 3). Operating instructions are included in A.P.4700 A & F, Vol. 1, Book 2, Sect. 6, Chap. 2.

DESCRIPTION

General

2. The test box comprises, a container with a detachable front panel which carries the switches and indicator lamps, and extension cables which pass through the container for joining the test circuit wiring to the rocket pack connectors.

Container

3. The container is a rectangular box of light-gauge pressed steel, with ventilating louvres in the rear and sides panels. The front panel is secured to the container by countersunk screws and handles are provided to facilitate its removal. Two carrying handles are fitted on the side panels.

Components

4. The front panel carries three indicator

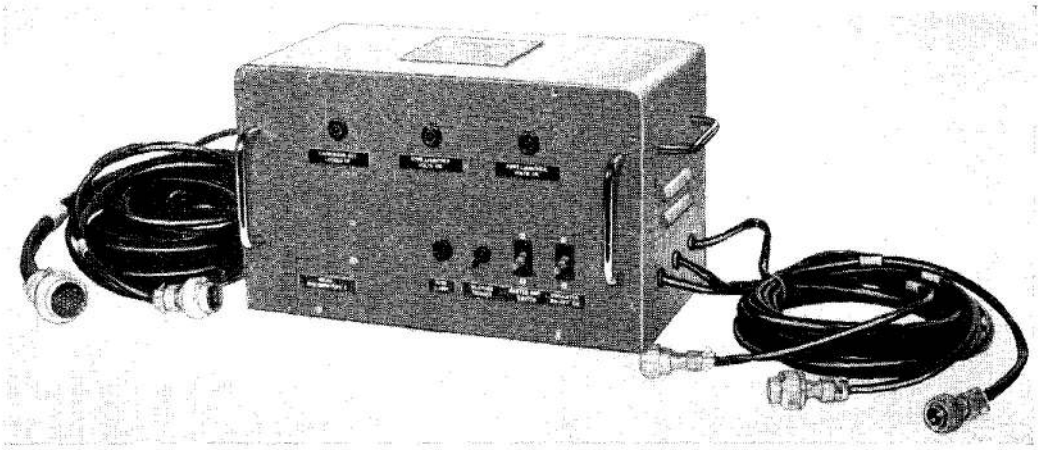

Fig. 1. Test box (general view)

lamps, with clear, green, and red caps, three test switches, a fuse holder, and a Type 2 relay mounted on the back. Identification labels are fitted below the components and are shown in fig. 2. Two heavy-duty terminals are provided at the rear of the container for connecting a 28-volt d.c. supply to the test circuit. The extension cables, each ten feet in length, are fitted with free plugs or sockets, which mate with the pack connectors. A schedule of components is given in Table 1, and details of the test circuit wiring and extension cables are shown on fig. 3.

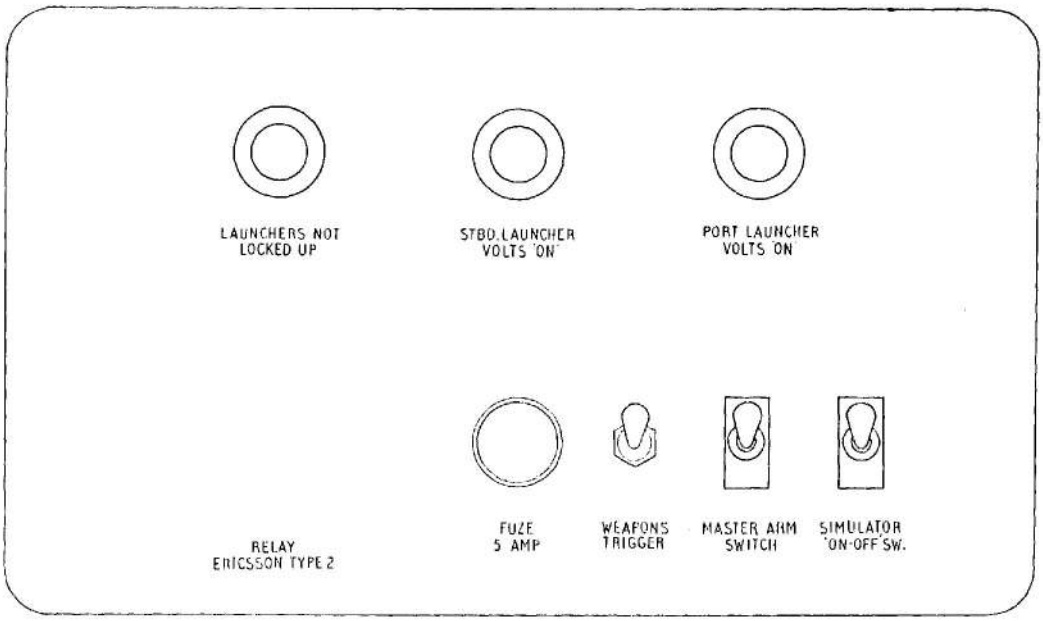

Fig. 2. Front panel layout

Table 1

Schedule of components

Item	Description	Type or Ref. No.	Quantity
Container		1053A	1
Fuse holder	Standard	L356	1
Fuse link	Glass, 5A	L1055	1
Switch	S.P., ON-OFF (spring ret. to OFF)	8295/B110	1
Switch	S.P., ON-OFF	XD736	2
Relay		Type 2	1
Indicator lamp		D620	3
Lamp cap	Clear	D149	1
,, ,,	Green	D149	1
,, ,,	Red	D149	1
Lamp fillament	24V	P.O. No. 2	3
Terminal	Red	L1005	1
,,	Black	L1005	1
Lug connector	6-amp	5X/6815	5
Ring tongue tag	6-amp	HX294	4
Cable	Unipren	6 amp	
Socket	Free coupler	CZ56262	1
Socket	Free coupler	CZ56265	1
Socket	Free coupler	CZ56257	1
Plug	Free coupler	CZ49261	2
Grommet	Rubber	HV2215	4
Grommet	Rubber	HV2412	1

Table 2

Connector details

Identification	Length-ft	Termination	Ways
RP1	10	25-pole SK.	8
RP3	10	4-pole SK.	2
RP4	10	3-pole SK.	2
RP5	10	2-pole PL.	2
RP8	10	2-pole PL.	2

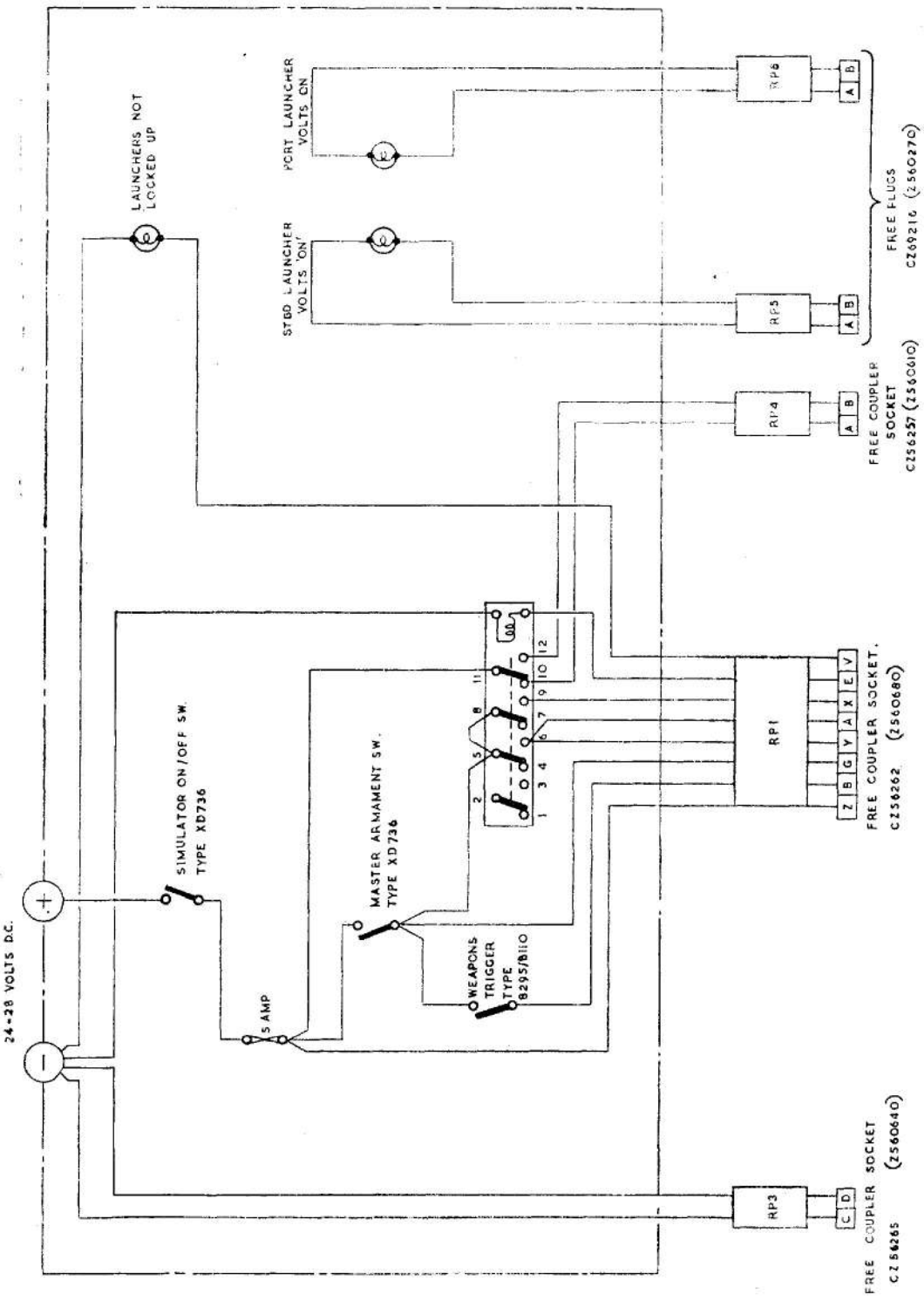

Fig. 3. Test circuit diagram

SERVICING

5. The unit should be examined periodically for damage and deterioration of the cables. Ensure that the cables are free from grease and oil. The continuity of the internal wiring and cable cores should be checked and the indicator lamps tested.

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