

Chapter 4

(Completely revised)

AIRCRAFT INSTALLATIONS

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INTRODUCTION

1. The ARI.23143 series installations provide facilities for amplitude modulated, radio telephony communication in the v.h.f. band of 117.5-135.95 MHz and in the u.h.f. band of 225-399.95 MHz. They are designed for aircraft use and are employed for operating between aircraft and ground, aircraft and ship or inter aircraft. There are four basic installations:—

- ARI.23143/1—Includes PTR175 (d.c. version)
- ARI.23143/2—Includes PTR175A (a.c. version)
- ARI.23143/3—Comprises ARI.23143/1 with a homing unit added
- ARI.23143/4—Comprises ARI.23143/1 with a control unit Type C1607/7 added

2. Typical installations are shown schematically in fig. 1, 2 and 3. Fig. 1 illustrates the use of separate u.h.f. and v.h.f. aerials and also includes the additional control unit used in ARI.23143/4; fig. 2 shows the basic installation using a combined u.h.f./v.h.f. aerial system while fig. 3 illustrates a typical homing installation ARI.23143/3. The items of equipment involved may be placed in three categories:—

- (1) Fixed equipment (i.e. those items which

are normally supplied to the aircraft manufacturers for fitting into the aircraft before delivery).

- (2) Removable items.

- (3) Ancillaries such as connectors.

3. In addition to the above, the remainder of the wiring from the terminal blocks is completed with cable, unipren 6 (Ref. No. 5E/3038). The various items are listed in the subsequent tables, and it should be noted that the numbers indicating the various connectors in fig. 1, 2 and 3 correspond to the item numbers in Tables 4 and 5. Specific details will, of course, vary with different types of aircraft and the relevant aircraft handbook must be referred to in each case. Also, it should be noted that such items as connectors are usually produced specially for each aircraft type, therefore the supply catalogue numbers will differ accordingly.

Note . . .

Reference is made in Table 4 and elsewhere to phase 1, phase 2, and phase 3 of the a.c. supply; these numbers, which are in use in America, correspond with the letters A, B and C, respectively, which are in more general use in Great Britain.

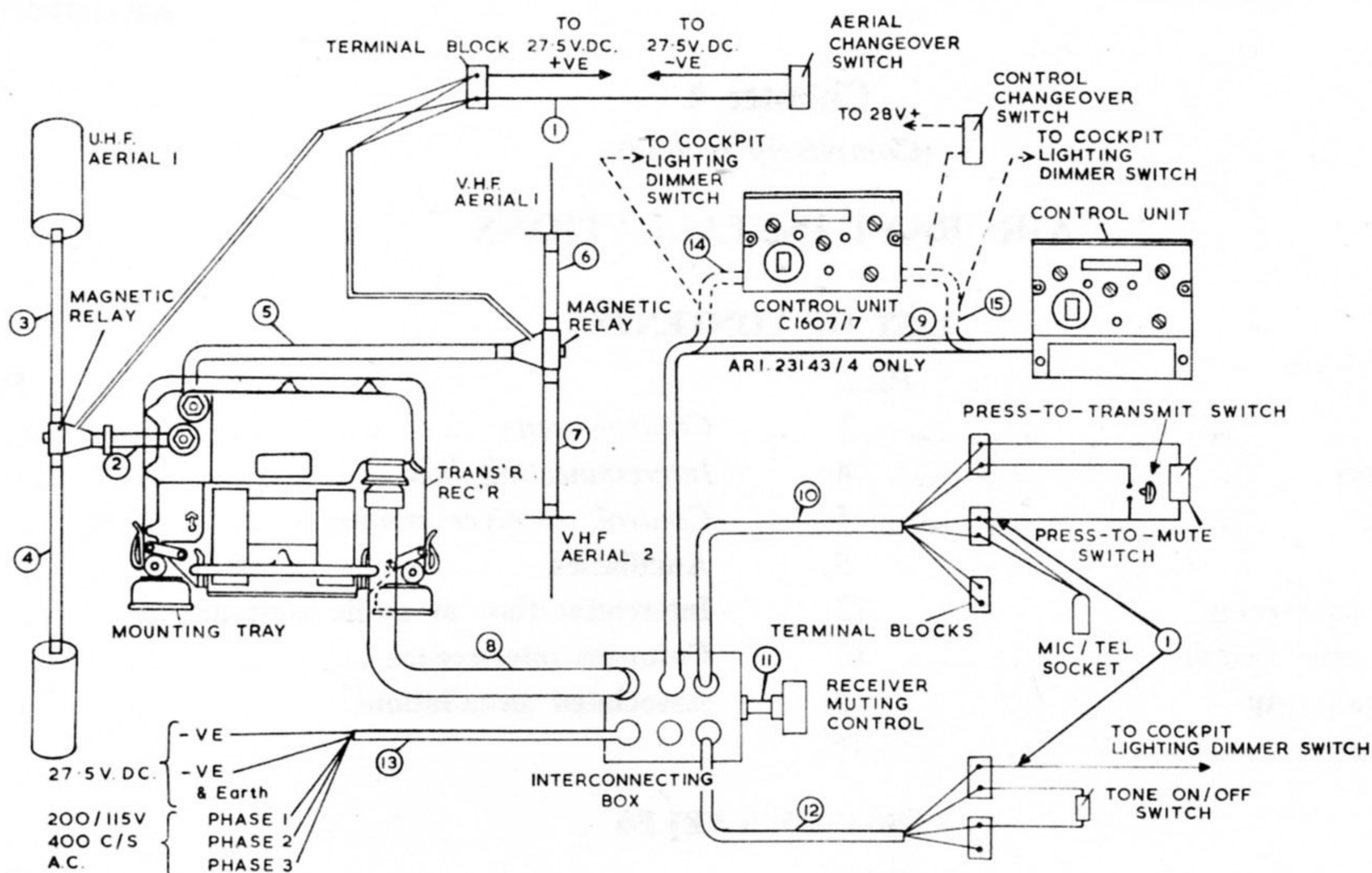


Fig. 1. Typical installation using separate v.h.f. and u.h.f. aerials

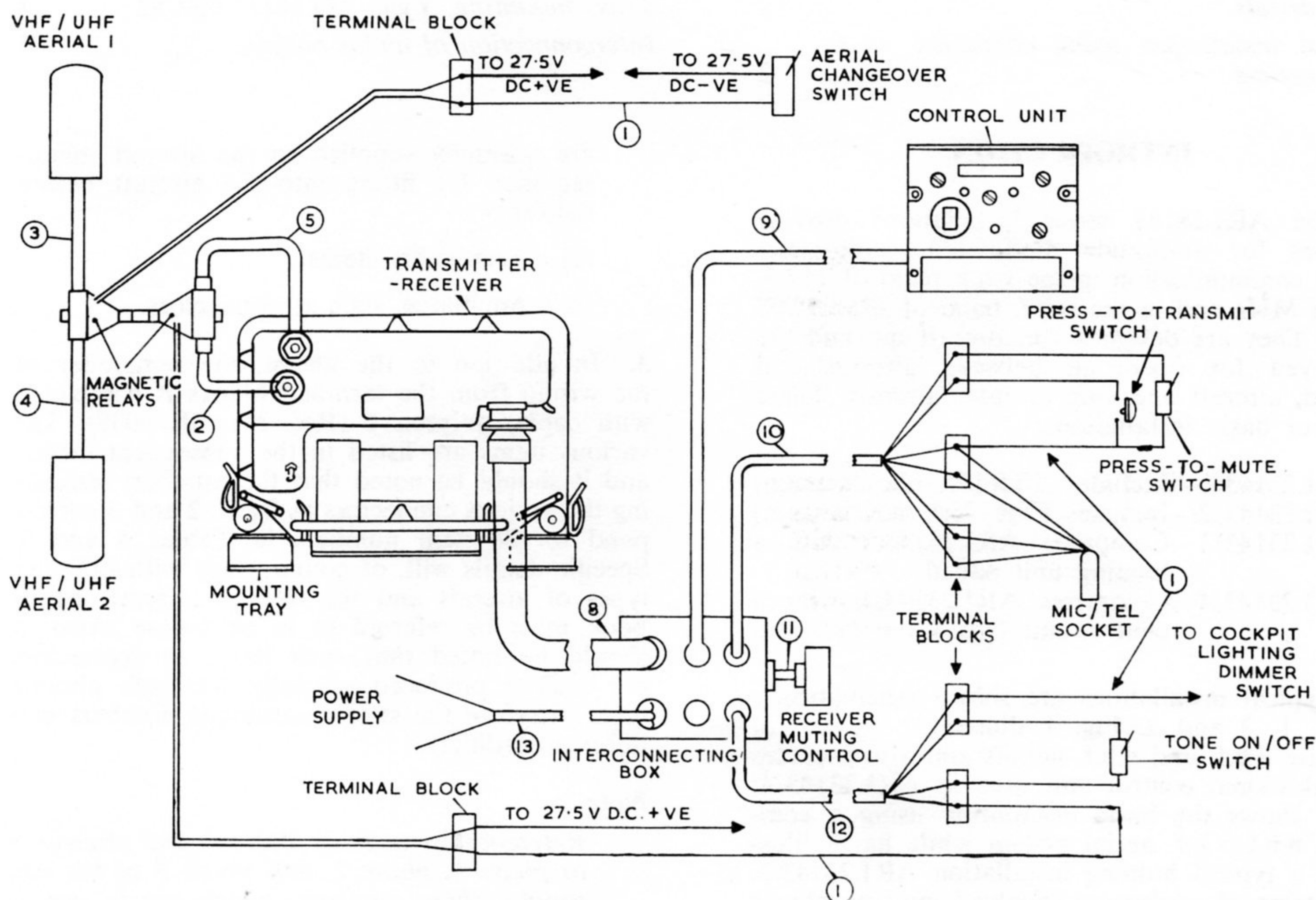


Fig. 2. Typical installation using combined v.h.f./u.h.f. aerials

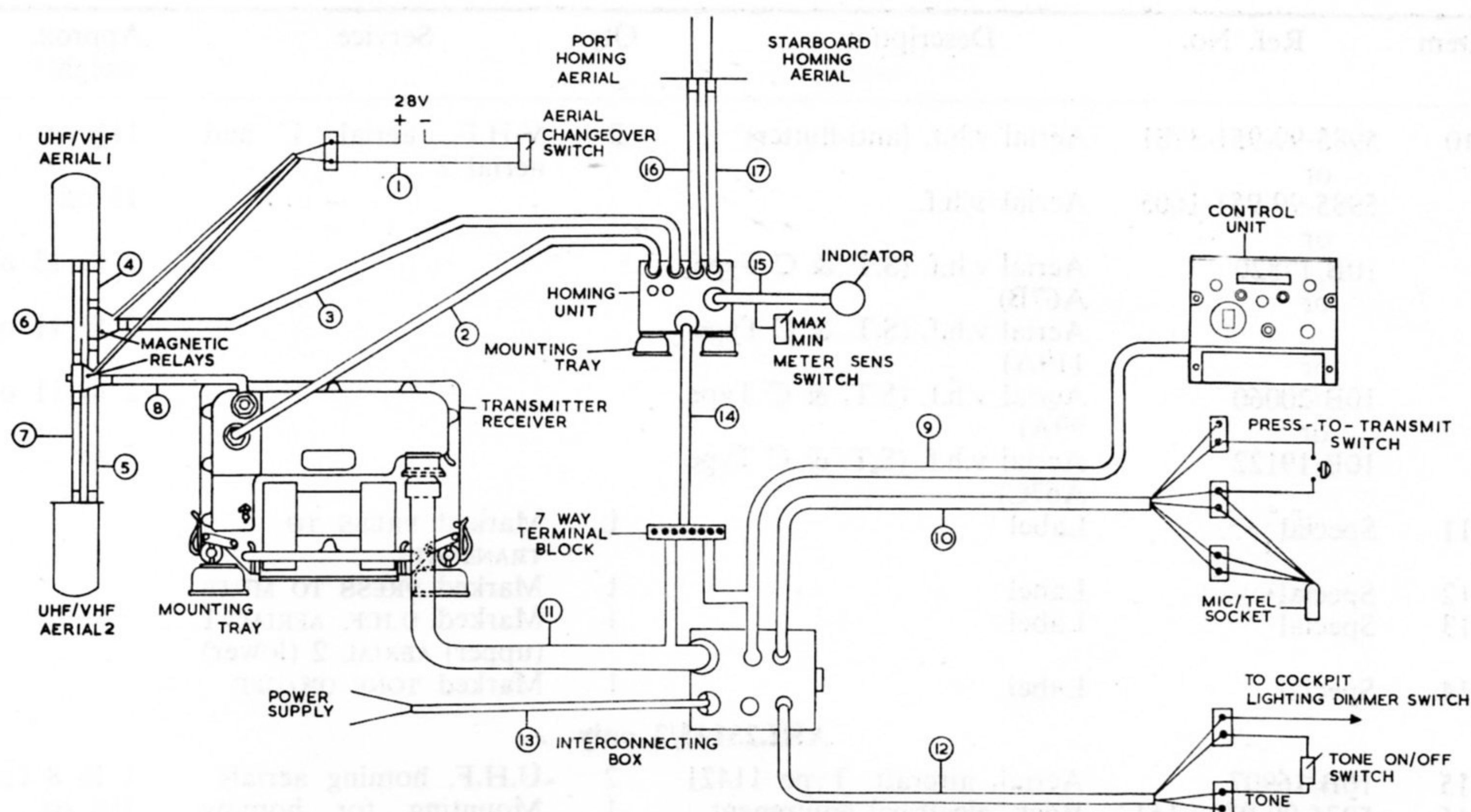


Fig. 3 Typical homing installation

TABLE 1

Fixed equipment

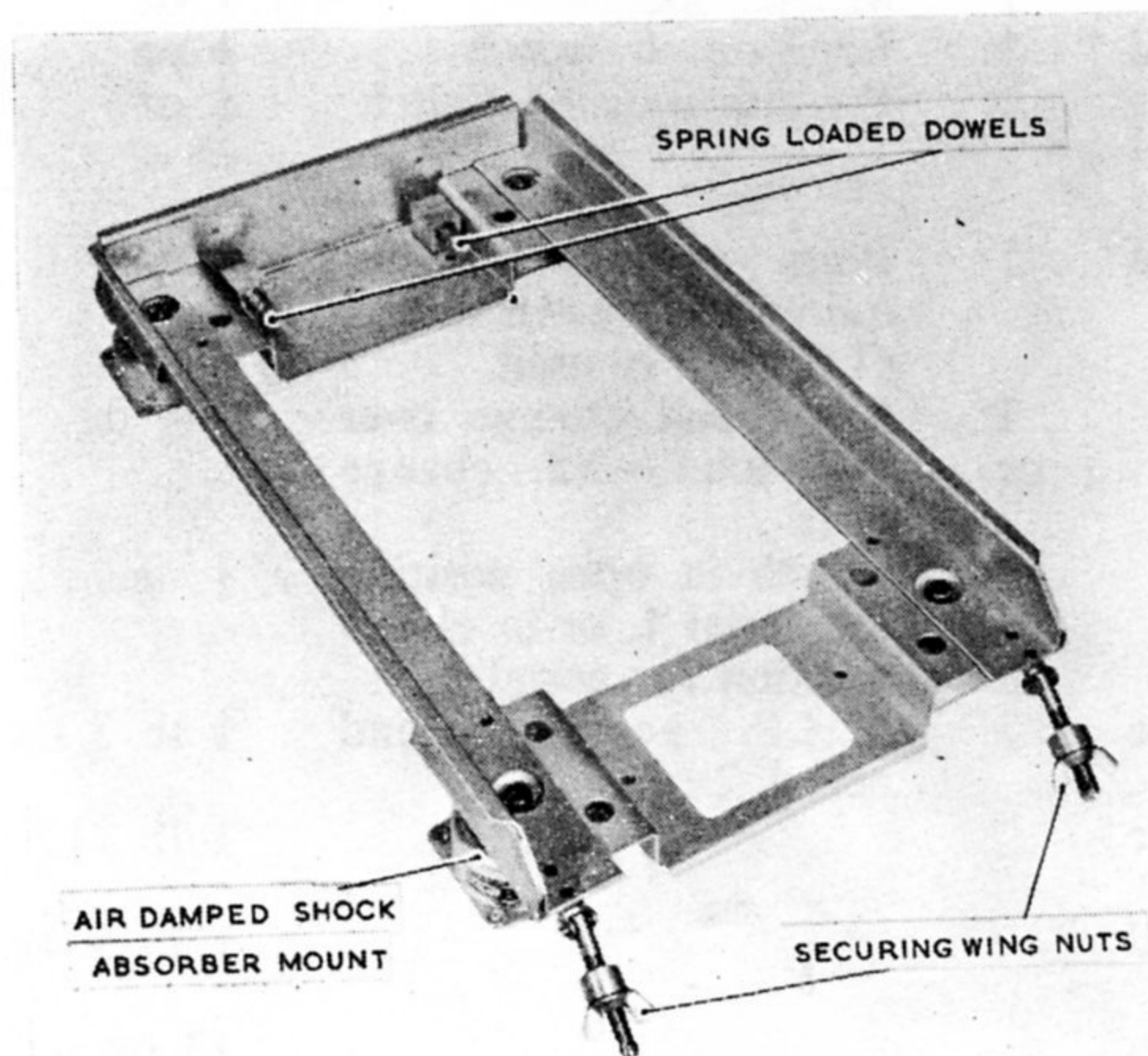
Item	Ref. No.	Description	Qty.	Service	Approx. weight
1	5821-99-942-8544	Tray, mounting, transmitter receiver, radio Type MT1477/ARC52	1	Mounting for transmitter-receiver	3 lb 4 oz
2	5CZ/430	Blocks, terminal, Type B, 2-way, No. 1	5	Terminations for mic/tel. press to transmit, and press to mute connectors	1 oz
3	10H/2206 or 10H/18574	Sockets, Type 359	1	Mic/tel socket	2 oz
4	5930-99-051-0553	Switch, toggle, spring loaded	1	Mic/tel socket	1 oz
5	5D/534	Switches, button (SP) firing bare, or similar press button switch	1	Tone on/off switch	$\frac{3}{4}$ oz
6	5930-99-051-0553	Switch, toggle, spring loaded	1	Press to transmit switch	1 oz
7	5945-99-932-1487	Relay, armature	1 or 2	Press to mute switch, required only when item 4 (Table 2) is used	$\frac{3}{4}$ oz
8	5930-99-051-0551	Switch, (SP) on-off	1 or 2	For aerial change over and u.h.f./v.h.f. change over	10 $\frac{3}{4}$ oz
9	10B/20860 or 5985-99-932-6363 or 5985-99-911-8266 or	Antenna (Derveaux Type AN134B) Antenna (S.T. & C Type 140 LRU 101B) Aerial, aircraft (McMichael EDC 18136) Aerial (Dorne & Margolin Type DMC 7-3)	2 2	Switch in open position for aerial 1, or in closed position for aerial 2 U.H.F. aerial 1 and aerial 2	1 lb 3 oz 1 lb 11 $\frac{1}{4}$ oz 1 lb 9 oz 13 oz

TABLE 1—(Contd.)

Item	Ref. No.	Description	Qty.	Service	Approx. weight
10	5985-99-951-3781 or 5985-99-951-1603 or 10B/17820 or 10B/20060 or 10B/19122	Aerial v.h.f. (anti-flutter) Aerial v.h.f. Aerial v.h.f. (S.T. & C Type A67B) Aerial v.h.f. (S.T. & C Type 119A) Aerial v.h.f. (S.T. & C Type 99A) Aerial v.h.f. (S.T. & C Type A67C)	2	V.H.F. aerial 1 and aerial 2	11½ oz 15 oz 2 lb 13 oz 2 lb 11 oz 2 lb 11 oz 5 lb
11	Special	Label	1	Marked PRESS TO TRANSMIT	
12	Special	Label	1	Marked PRESS TO MUTE	
13	Special	Label	1	Marked U.H.F. AERIAL 1 (upper) AERIAL 2 (lower)	
14	Special	Label	1	Marked TONE ON/OFF	
ARI.23143/3 only					
15	10B/16907	Aerial, aircraft, Type 11421	2	U.H.F. homing aerials	1 lb 8 oz
16	5975-99-913-2151	Rack, electrical equipment	1	Mounting for homing unit	10½ oz
17	5821-99-970-5375	Mount, indicator	1	Mounting for indicator	6 oz
18		Block, terminal, 7-way	1	Interconnect transmitter-receiver and homing unit	
19	5930-99-051-0551	Switch, (SP) on-off	1	Indicator sensitivity switch	¾ oz
20	Special	Label	1	Marked INDICATOR SENSITIVITY MAX./MIN	
ARI.23143/4 only					
21	5930-99-051-0551	Switch, (SP) on-off	1	Change-over control, pilot to observer	¾ oz
22	Special	Label	1	Marked U.H.F. CONTROL PILOT/OBSERVER	

Note . . .

The total installed weight (including aerials, connectors, interconnecting box and muting unit) is approximately 75 lb.

FIXED EQUIPMENT**Fig. 4. Tray, mounting, Type MT1477/ARC52**

4. A list of fixed equipment is given in Table 1 from which it can be seen that most of the items are standard aircraft equipment.

Mounting trays

5. The transmitter-receiver mounting tray (fig. 4) consists basically of a cradle shaped aluminium carrier which is supported by four air-damped shock absorber mounts. The complete transmitter-receiver slides into the mounting tray and is held at the rear by the two spring loaded dowels and at the front by the two wing nut fasteners. The latter are attached to the front of the mounting tray for location with the fastener clips on the front panel assembly. The type of mounting used for the transmitter-receiver does not permit the equipment to be mounted in any attitude other than horizontal, i.e. level during normal level flight.

6. The four shock absorber mounts are each attached to the corners of the mounting tray by single $\frac{1}{4}$ in. studs. Their function is to absorb shock and vibrations transmitted by the aircraft which might otherwise cause damage to the equipment. The bases of the shock absorber mounts each contain four mounting holes measuring 0.203 in. diameter to allow the mounting tray to be bolted to the airframe.

7. Four separate silver plated, beryllium copper earthing straps, each measuring $3\frac{5}{8}$ in. long \times $\frac{3}{8}$ in. wide are provided on the mounting tray for connection to the airframe or aircraft bonding system. These straps are each provided with one securing hole of 0.375 in. diameter.

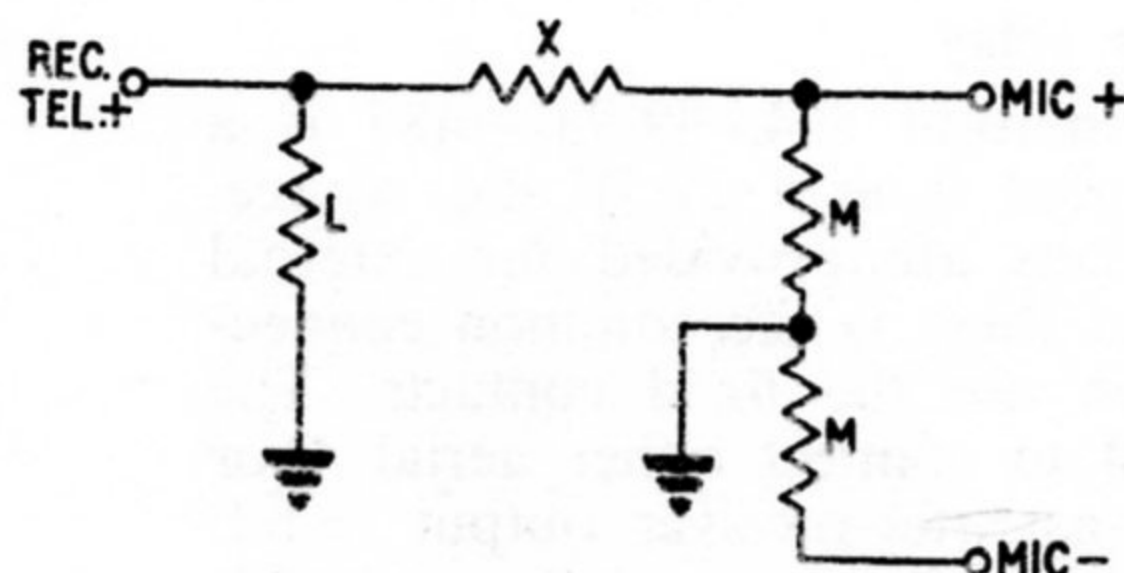
7a. A description and details of installing the homing unit mounting tray (used in ARI.23143/3) are given in A.P.116D-0106-1.

Aerials

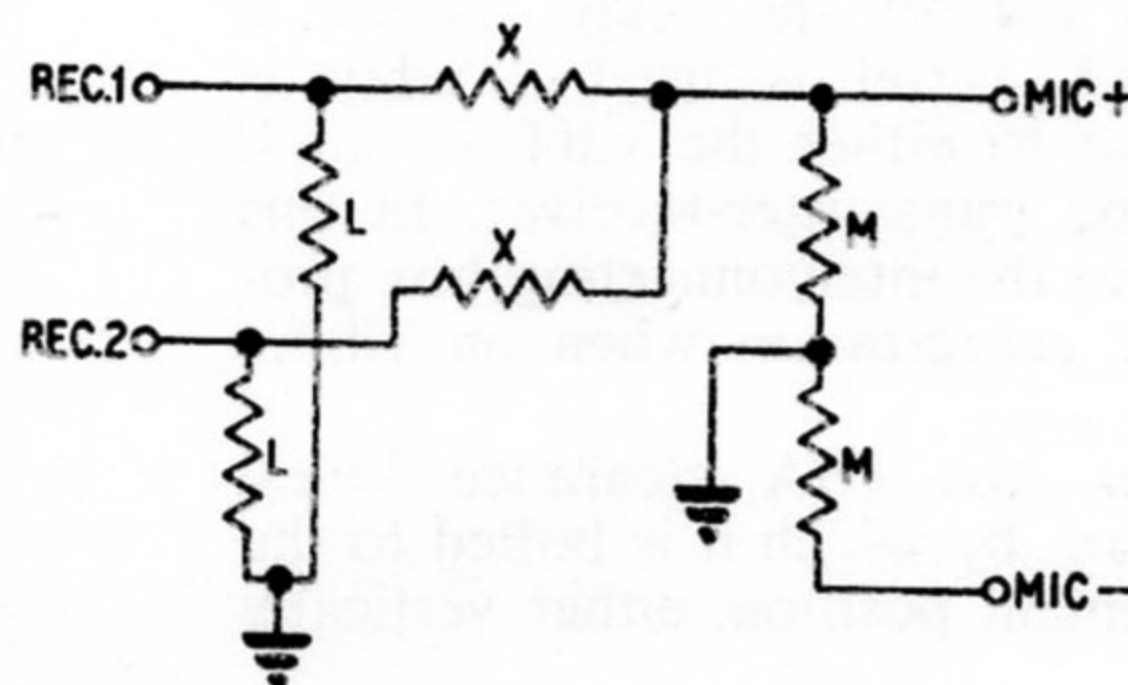
8. The specifications for aerials suitable for use in ARI.23143 series installations are given in Specification No. R.A.E./R.S.P./3263 and No. R.A.E./R.S.P./1951 for u.h.f. types and in Specification No. R.A.E./R.S.P./3247 for v.h.f. types. Details of a number of u.h.f. and v.h.f. aerials and aerial equipment are given in A.P.116D-0133-1A. A description and installation details of the homing aerials (used in ARI.23143/3) are given in A.P.116D-0106-1.

9. The position at which aerials are fitted are such that the radiation characteristics and operational performance conform with the specifications quoted. Where one aerial does not provide adequate signal cover when the attitude of the aircraft changes, two aerials may have to be used

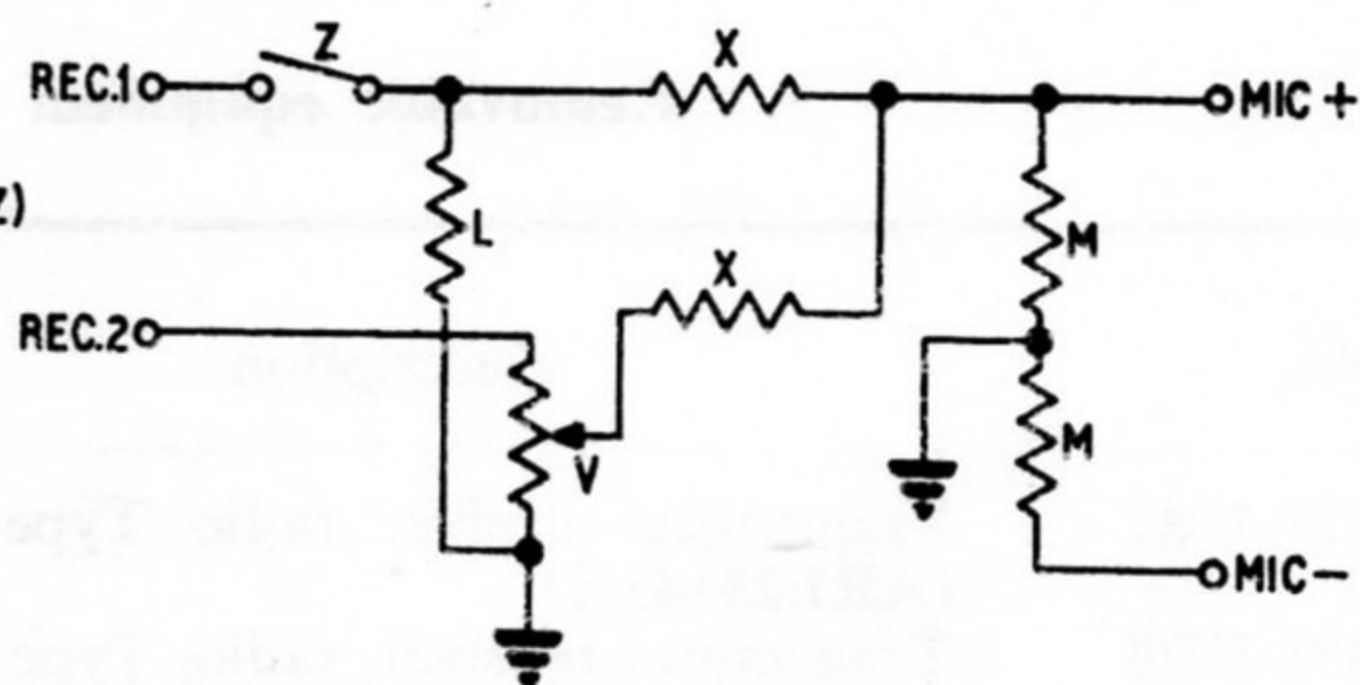
(a) BASIC CIRCUIT



(b) CIRCUIT REQUIRING TWO RECEIVERS



(c) AS (b) ABOVE BUT SHOWING HOW SWITCH(Z) AND VOL CONTROL (V) CAN BE CONNECTED.



NOTES:

1. Value for X not critical in any circuit but should be 10000 to 20000 ohms
2. L should be 150 to 200 ohms
3. Value of M critical at 200 ohms, Resistances of each pair should be equal to preserve balance.
4. Fixed resistors should be rated $\frac{1}{4}$ W
5. Value of V can be 1000 ohms but when using 'Boxed up' potentiometer, volume control Type 11 (Ref.No. 10L/240) 2500 ohms S.I.S.5627 to be used.
6. Switch Z not normally required in single seat aircraft but may be necessary in larger types. In certain cases Z becomes a relay which opens on 'Press to transmit' to avoid radiation of signals from REC.1.

Fig. 5. Interconnection of audio outputs

to give better all-round coverage. They are probably fitted one above and one below the fuselage, but the actual positions have previously been determined by polar diagram investigation. The position of the aerials are chosen with regard to the length of the connectors to the transmitter-receiver which must always be kept as short as possible.

10. If two aerials are used they would be referred to as aerial 1 and aerial 2 respectively. The one which gives the better signal cover is aerial 1, and this is connected to the transmitter-receiver when the aerial change over switch is set to the aerial 1 position, the relay armature then being in the non-energized position.

11. Wideband aerials capable of covering both the u.h.f. and v.h.f. bands may be employed, but these are normally designed for use with particular aircraft.

Aerial change-over relay

12. The relay, armature 5945-99-932-1487 is a coaxial relay operated from a 27.5V d.c. source. Three coaxial sockets are provided for external connections; one of these is the common connection, the other two are the fixed contacts. The relay may be used to connect either aerial 1 or aerial 2 to the transmitter-receiver output (u.h.f. or v.h.f.), an aerial change-over switch (para. 14) being necessary to control the relay. Where a wideband u.h.f./v.h.f. aerial is used a relay is employed to connect to either the v.h.f. or u.h.f. output socket on the transmitter-receiver. In this event a connection to the interconnecting box provides for automatic energization when on v.h.f.

13. The relay has two 4BA clearance holes, spaced one inch apart, by which it is bolted to the airframe in a convenient position, either vertically

or horizontally with respect to the transmitter-receiver and the two aerials.

Aerial change-over switch

14. The single pole on-off switch (5930-99-051-0551), which is used to operate the relay, armature must be labelled U.H.F. AERIAL 1 for the open (upper) position and AERIAL 2 for the closed (lower) position.

Removable equipment

15. The removable items of equipment used in the installation are listed in Table 2.

Transmitter-receiver

16. The transmitter-receiver, Type PTR175 or PTR175A, is installed in a horizontal position so that it is level during level flight.

17. Sufficient clearance must be left to allow the transmitter-receiver to be withdrawn from the mounting tray and for the tray to move freely on its resilient mounting. Also, provision must be made for the three cable runs to the front of the transmitter-receiver, and for removal of the connectors. The unit need only travel a few inches forward and upward to be free of the mounting tray, when it can be lifted clear. Where it is fixed in a shelf position with little clearance above, however, a space of 22 in. must be left in front to permit the unit to clear the tray. A handle on the front of the transmitter-receiver facilitates manipulation and since the unit weighs 50 lb., care must be taken when handling during fitting and removal. The transmitter-receiver is secured in the mounting tray by means of two spring loaded dowels at the rear and two wing nut fasteners at the front. Holes for retaining wires are provided in these wing nuts to prevent them from becoming loose through vibration.

TABLE 2

Removable equipment

Item No.	Ref. No.	Description	Qty.	Approx. weight
1	5821-99-971-1781 or 5821-99-971-1778	Transmitter-receiver, radio, Type PTR175 (ARI.23143/1) Transmitter-receiver, radio, Type PTR175A (ARI.23143/2)	1 1	50 lb. 50 lb.
2	5821-99-945-5739	Control, radio set, Type C1607/4	1	3 lb. 3½ oz.
3	5821-99-932-6361	Interconnecting box	1	1 lb. 4 oz.
4	5821-99-943-3247	Control, receiver muting	1	1 lb. 4 oz.
ARI.23143/3 only				
5	5826-99-913-2160	Homing group, radio	1	3 lb. 14 oz.
6	10Q/9530909	Indicator Type 9024M	1	10¼ oz.
ARI.23143/4 only				
7	5821-99-107-0030	Control, radio set, Type C1607/7	1	2 lb. 4 oz.

18. The transmitter-receiver should be pressurized to permit operation at altitudes of up to 70,000 feet. This pressurization is achieved by pumping dry air or nitrogen into the special case via a Schraeder valve on the front panel and maintaining this at about 4 lb. to 5 lb. per sq. in. above atmospheric pressure at sea level.

19. If the ambient temperature is liable to be outside the range of -55°C to $+55^{\circ}\text{C}$, additional heating or cooling facilities must be provided accordingly. The cool air inlet duct must be situated in a position where the ingress of dust or moisture is unlikely.

Control units

20. The control unit Type C1607/4 is usually installed in the aircraft in such a position as to allow the operator access to the controls without moving from his station. Normally, this unit will be mounted in the cockpit, for operation by the pilot, and placed so that the frequency channel figures are visible and the control knobs are within easy reach. If this is not practicable, a remote visual indicator may be used in conjunction with the control unit to provide channel information. This may be installed in any convenient position or mounted on the instrument panel.

20a. The control unit Type C1607/7 is used only in the ARI.23143/4 and operates in conjunction with the control unit Type C1607/4 to provide the additional facility of control of the manual tuning from an alternative position, normally the observer's station. Manual control of the tuning is switched between the two stations by a toggle switch at the pilot's station.

21. No form of shock absorption is necessary for the control units, each of which is secured to the aircraft panel by four Dzus fasteners. Sufficient clearance must be allowed at the rear of the panel for the entry of the connectors at the back of the control unit, the actual amount depending on the shape of the connector terminations which may be an angle of 45° , a right-angle, or a straight fitting. If a remote visual indicator is installed, two connectors are required.

Interconnecting box

22. The interconnecting box 5821-99-932-6361 is illustrated in Chap. 1. It is a rectangular screened box of overall dimensions $6\frac{1}{8}$ in. \times $4\frac{3}{8}$ in. \times $2\frac{3}{4}$ in. and is normally mounted on the aircraft equipment shelf or panel, its base being provided with four mounting holes. This unit must be sited within 10 feet of the transmitter-receiver to avoid excessive voltage drop in the power supply cables. However, the distance between the control unit and the interconnecting box can be up to 100 feet, depending on the gauge of wire used in the connector. The interconnecting box must be mounted so that the test socket is accessible for daily servicing. It carries seven multipole connectors, with duties as follows:—

- (1) Electrical connection of the interconnecting box to the transmitter-receiver via a 42-way flexible conduit.
- (2) Electrical connection of the interconnecting box to the control unit via a 30-way flexible conduit.
- (3) Electrical connection to the nominal 27.5V d.c. power supply by means of a 2-way flexible conduit and also to the 115V, 400 Hz, 3-phase a.c. supply (used in ARI.23143/2) by means of a 3-way flexible conduit, via the 6-pole plug connector.
- (4) Electrical connection, via a 3-core flexible conduit, to a terminal block connecting to the cockpit lighting dimmer switch and the TONE ON/OFF switch.
- (5) Electrical test connection facilities by means of a 12-way connector.
- (6) Electrical connection to the PRESS TO TRANSMIT switch, the mic/tel socket and the PRESS TO MUTE switch, via a 6-core flexible conduit.
- (7) Electrical connection to the receiver muting control.

Control, receiver muting

23. The control receiver muting, 5821-99-943-3247, an illustration of which appears in Chap. 1, may be used when press to mute facilities are required in the receive condition to eliminate unwanted signals or interference. It is capable of operation on either 27.5V d.c. or 115V, 400 Hz a.c., dependent on the adjustment of link wires on a panel inside the unit. These link wires should be adjusted, as shown on the panel, for d.c. operation when the unit is used in ARI.23143/1, or for a.c. operation when it is used in ARI.23143/2. A reversible label on the outside top face of the unit indicates whether the unit is wired for d.c. or a.c. operation. The unit is operated by a switch, normally a spring loaded toggle type (5930-99-051-0503) labelled PRESS TO MUTE, which will be mounted in a convenient position for operation by the pilot.

24. The unit is contained in a rectangular metal box $4\frac{3}{4}$ \times $3\frac{1}{16}$ in. \times 3 in. It is fitted with a 6-pole screened socket by which it is connected to the interconnecting box. Bolts fitted through four holes in the cover secure the unit to an aircraft equipment panel or shelf. Anti-vibration mountings are not required.

ANCILLARIES

25. Cable lengths and outlets vary from aircraft to aircraft, but the basic details of the connectors are given in Table 4 for ARI.23143/1, 2 and 4, and in Table 5 for ARI.23143/3. For the remaining wiring from the terminal blocks (fig. 1, 2 and 3), uninyvin 20 cable is used.

Note . . .

With the exception of item 13 of Table 4, which gives details of the separate power supply connectors for ARI.23143/2 and ARI.23143/1 respectively the other connectors are the same for each installation. Also the a.c. power supply connections to poles X, Y Z of item 8 and to pole B of item 8, are not employed when these connectors are used in ARI.23143/1 installations.

**INTERCONNECTION OF AUDIO
OUTPUTS**

26. In certain aircraft installations where various navigational aids are fitted, a common audio output is required for all services available to the crew members of the aircraft and, in cases where a separate intercommunication amplifier is not fitted, the usual practice is to use the u.h.f. equipment as an audio amplifier.

27. It is not satisfactory to parallel the telephone outputs of the various equipments because of marked variation in output impedances. It is, therefore, necessary to apply the audio outputs of other equipments to the microphone input terminals of the u.h.f. equipment at the correct level and impedance, so that all audio signals appear across the telephone output circuit, and some external form of mixing circuit is usually provided for this purpose.

28. Suitable methods of connecting the audio outputs into the microphone input circuit are given in fig. 5.

COMPASS INTERFERENCE

29. Tests to determine the magnetic effect of the main items of equipment forming an ARI.23143 installation have been made, the results being given in Table 3.

TABLE 3

Magnetic effect of installed equipment

Item	Distance in inches for	
	(a) 1° error	(b) 1/8° error
Transmitter-receiver	60	100
Control unit Type C1607/4	8	15
Interconnecting box	9	18
Control, receiver muting	7	14
Antenna (Derveaux Type AN134B)	No effect at 9 inches	
Telephone headset	13	25

ASSOCIATED INSTALLATIONS

30. The homing equipment ARI.18120 may be used in conjunction with the ARI.23143 to provide homing information on the u.h.f. channels. Where the ARI.18120 is fitted, the interconnecting box (para. 22) and control receiver muting (para. 23) are not required.

TABLE 4

Connectors for ARI.23143/1, 2 and 4

Item No. (fig. 1 & 2)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
1	Univin 20		—	—	—	—	As Reqd.	General and switch wiring.
2	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887	Straight or right-angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right-angle adaptor Type N 5935-99-932-2405	1	Transmitter-receiver to relay, magnetic. Note . . . (1) <i>Destination and identification sleeves 5970-99-932-3456 are coded as required.</i> (2) <i>Where the connector is subjected to ambient temperature greater than 80 deg. C, cable, uniradio 73, 6145-99-910-0300 and plug Type UK-N1, 5935-99-999-0884 should be used in lieu of those shown.</i>	
3	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887	Straight, or right-angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight, or right angle adaptor Type N 5935-99-932-2405	1	U.H.F. aerial 1 to relay, magnetic (see note in item 2).	
4	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887	Straight, or right-angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight, or right angle adaptor Type N 5935-99-932-2405	1	U.H.F. aerial 2 to relay, magnetic. (See note in item 2).	
5	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887	Straight, or right-angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight, or right angle adaptor Type N 5935-99-932-2405	1	Transmitter-receiver to relay, magnetic. (See note in item 2).	

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	End A			End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
6	Uniradio 67 6145-99-910-0295		Dependent on type of aerial fitted		(P) Type UK-N2 5935-99-999-0887	Straight, or right angle adaptor Type N 4935-99-932-2405	1	V.H.F. aerial 1 to relay, magnetic. (See note in item 2).
7	Uniradio 67 6145-99-910-0295		Dependent on type of aerial fitted		(P) Type UK-N2 5935-99-999-0887	Straight, or right angle adaptor Type N 5935-99-932-2405	1	V.H.F. aerial 2 to relay, magnetic. (See note in item 2).
8	Wire, electrical equipment (Type 2, 14/0076 white) 6145-99-910-0180 (Type 2S, 14/0076 pink, shielded) 6145-99-942-4163 (Type 3, 70/0076 white) 6145-99-910-0232 conduit (p.v.c.) 5975-99-932-2939 Type 103/202/GY, twin (Rists Wires and Cables Ltd.) and union, electrical conduit 5975-99-932-2943	(S) Amphenol 165GB-R44 5935-99-932-1250		Right angle	(P) Amphenol 165GB-72-1 5935-99-940-3390 or (P) Amphenol 165GB-R72 5935-99-932-1246	Straight Right angle	1	Transmitter-receiver to inter-connecting box.
	3/white	1		A		A		Note . . . (1) <i>Length of connector must not exceed 10 feet (para. 22).</i> (2) <i>Wire termination sleeves 5975-99-932-1417 to 5975-99-932-1458 are numbered 1 to 42 respectively.</i> (3) <i>Destination and identification sleeves 5970-99-932-3458 are coded as required.</i> (4) <i>Where the connector is subjected to ambient temperatures greater than 70 deg. C, conduit (p.t.f.e.) 5975-99-932-2893 and equipment wire (p.t.f.e.) to Spec. No. EL1930 should be used in lieu of those shown.</i> (5) <i>If the connector is liable to be affected by</i>
	3/white	2		Earthling ring and B		Earthling ring and B		
	2/white	3		C		C		
	2/white	4		D		D		
	2/white	5		E		E		
	2/white	6		F		F		
	2/white	7		H		H		
	2/white	8		J		J		

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
	2/white	9		K		K		<i>ester based fluids, p.t.f.e. conduit should be used with p.v.c. equipment wire.</i> (6) <i>When aircraft wire in open loom is employed, socket 5935-99-999-0821 (Amphenol 165GB-44-1001) and plug 5935-99-999-0696 (Amphenol 165GB-72-1001) must be used in lieu of those shown. These terminations and alternative ones having sealing facilities, and all right angle terminations, are to be sealed using compound PR1201Q or other approved compound.</i> (7) <i>Where the connector is required to be taken through a bulkhead, this can be achieved by using a cable/panel mounting socket 5935-99-932-3124 (Amphenol 165GB-91, straight) or 5935-99-932-3125 (Amphenol 165GB-R91, right angle) in conjunction with plug 5935-99-940-3390 (Amphenol 165GB-72-1, straight) or 5935-99-932-1246 (Amphenol 165GB-R72, right angle).</i>
	2/white	10		L		L		
	2S/pink	11		M		M		
	2S/pink	12		N		N		
	2/white	13		P		P		
	2S/yellow	14		R		R		
	2S/green	15		S		S		
	Twisted pair in single screen							
	103/202/GY Rists							
	Wires and Cables							
	2/white	16		T		T		
	2/white	17		U		U		
	2/white	18		V		V		
	2/white	19		W		W		
	2S/pink	20		X		X		
	2S/pink	21		Y		Y		
	2S/pink	22		Z		Z		
	2/white	23		a		a		
	2/white	24		b		b		
	2/white	25		c		c		
	2/white	26		d		d		
	2/white	27		e		e		
	2/white	28		f		f		
	2/white	29		g		g		
	2/white	30		h		h		
	2/white	31		i		i		
	2/white	32		j		j		
	2/white	33		k		k		
	2/white	34		m		m		
	2/white	35		n		n		
	2/white	36		p		p		
	2/white	37		q		q		
	2/white	38		r		r		
	2/white	39		s		s		
	2/white	40		t		t		
	2/white	41		u		u		
	2/white	42		w		w		

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	End A		End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole	
9	Wire, electrical equipment (Type 2, 14/0076 (white) 6145-99-910-0180, conduit (p.v.c.) 5975-99-932-2940 and union, electrical conduit 5975-99-932-2944	(P) Cannon K03-21-30PN 5935-99-940-3381	Straight K06-21-5/8 5935-99-940-3395 or right angle K08-21-5/8 5935-99-940-3396 or 45 deg. angle K45-21-5/8 5935-99-940-3397	(S) Cannon K03-21-30SN 5935-99-940-3382	Straight K06-21-5/8 5935-99-940-3395 or right angle K08-21-5/8 5935-99-940-3396 or 45 deg. angle K45-21-5/8 5935-99-940-3397	1	Interconnecting box to control unit Type C1607/4.
		1		A		A	Note . . . (1) <i>Coupling, electrical conduit 5975-99-932-2945 should be used to couple lengths of conduit, where the connector is more than 15 feet long.</i> (2) <i>Wire termination sleeves 5975-99-932-1417 to 5975-99-932-1446 are numbered 1 to 30 respectively.</i> (3) <i>Destination and identification sleeves 5970-99-932-3456 are coded as required.</i> (4) <i>Where the connector is subjected to ambient temperatures greater than 70 deg. C, conduit (p.t.f.e.) 5975 - 99 - 932 - 2947 and equipment wire to Spec. No. EL1930 should be used in lieu of those shown.</i> (5) <i>If the connector is liable to be affected by ester based fluids, p.t.f.e. conduit should be used with p.v.c. equipment wire.</i> (6) <i>All terminations are to be sealed using compound PR1201Q or other approved compound.</i> (7) <i>Through bulkhead</i>
		2		B		B	
		3		C		C	
		4		D		D	
		5		E		E	
		6		F		F	
		7		H		H	
		8		J		J	
		9		K		K	
		10		L		L	
		11		M		M	
		12		N		N	
		13		P		P	
		14		R		R	
		15		S		S	
		16		T		T	
		17		U		U	
		18		V		V	
		19		W		W	
		20		X		X	
		21		Y		Y	
		22		Z		Z	
		23		a		a	
		24		b		b	
		25		c		c	
		26		d		d	
		27		f		f	
		28		g		g	
		29		h		h	
		30		i		i	

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	End A		End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)		
							<i>fittings are not available at present in the Cannon KO series, but the cable/panel mounting sockets and plugs mentioned in item 8 note (7) can be used, where the connector is required to be taken through a bulkhead.</i>
10	Miniature cable 6D 6145-99-910-0023	(P) Mk. IV 6-pole 5A 5935-99-056-0300 Outlet gasket 5935-99-097-0058 Cable sleeve 5975-99-097-0114 Compression ring 5975-99-097-0102 Union gasket 5935-99-097-0108 Thrust ring 5310-99-097-0096		Straight 5935-99-097-0242 or right angle 5935-99-097-0249	Cable ends	1	Interconnecting box to terminal blocks Type B, 2-way No. 1. Note . . . (1) <i>Insulation sleeving 5970-99-932-1465 is used to terminate the leads.</i> (2) <i>Destination and identification sleeves 5970-99-932-3457 are coded as required.</i>
	Red (screened) Blue (screened) Green (screened) Yellow (screened) White (screened) Black (screened) or Wire, electrical equipment (Type 2, 14/-0076, white) conduit (p.v.c.) 5975-99-914-3334 Wire, electrical equipment, twin, screened, 13		A B C D E F				Tel +ve Tel -ve and earth Mic -ve (dynamic) Mic +ve (carbon/dynamic) Press to transmit Press to mute
		(P) Mk. IV 6-pole 5A 5935-99-056-0300 Outlet gasket 5935-99-097-0058 Cable sleeve 5975-99-097-0114 Compression ring		Straight 5935-99-011-9116 or right angle 5935-99-011-9123	Cable ends Sealing grip SCF 276F-10	1	Interconnecting box to terminal blocks Type B, 2-way. Note . . . (1) <i>Insulation sleeving 5970-99-932-1465 is used to terminate the leads.</i> (2) <i>Destination and iden-</i>

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
	Red Blue Green Yellow White Black	5935-99-097-0102 Conduit union SCF 1402-10		A B C D E F				tification sleeves 5970-99-932-3457 are coded as required. Tel +ve Tel -ve and earth Mic -ve dynamic Mic +ve (carbon/dynamic) Press to transmit Press to mute
11	Miniature cable 6D, 6145-99-910-0023 Yellow (screened) White (screened) Red (screened) Black (screened) Blue (screened) Green (screened)	(P) Mk. IV 6-pole 5A 5935-99-056-0303 Outlet gasket 5935-99-097-0058 Cable sleeve 5975-99-097-0114 Compression ring 5975-99-097-0102 Union gasket 5935-99-097-0108 Thrust ring 5310-99-097-0096	Straight 5935-99-097-0242 or right angle 5935-99-097-0249		(S) Mk. IV 6-pole 5A 5935-99-056-0120 Outlet gasket 5935-99-097-0058 Cable sleeve 5975-99-097-0114 Compression ring 5975-99-097-0102 Union gasket 5935-99-097-0108 Thrust ring 5310-99-097-0096	Straight 5935-99-097-0242 or right angle 5935-99-097-0249	1	Interconnecting box to receiver muting control. Required only when item 4 (Table 2) is fitted. Note . . . (1) <i>Insulation sleeving 5970-99-932-1465 is used to terminate the leads.</i> (2) <i>Destination and identification sleeves 5970-99-932-3457 are coded as required.</i> A.G.C. muting 115V, 400 Hz, phase 1 27.5V +ve (switched) Press to mute Earth Not used
12	Miniature cable 6A, 6145-99-910-0020	(P) Mk. IV 6-pole 5A 5935-99-056-0301 Outlet gasket 5935-99-097-0058 Union gasket 5935-99-097-0108 Thrust ring 5310-99-097-0096	Straight 5935-99-097-0242 or right angle 5935-99-097-0249		Cable ends		1	Interconnecting box to terminal blocks Type B, 2-way No. 1. Note . . . (1) <i>Insulation sleeving 5970-99-932-1465 is used to terminate the leads.</i> (2) <i>Destination and identification sleeves 5970-99-</i>

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
	Red Blue Green Yellow			A B C D E F				932-3459 are coded as required. Panel lights Earth Tone on/off Not connected Not used Aerial changeover relay (when combined v.h.f./u.h.f. aerial fitted).
13	Miniature cable, electric, 2P, 6145-99-910-0006 and miniature cable, electric, 3D, 6145-99-910-0012	(S) Mk. IV 6-pole 19A 5935-99-940-3430 Outlet gasket 5935-99-097-0060 Cable sleeve 5975-99-097-0116 Compression ring 5975-99-097-0104 Union gasket 5935-99-097-0240 Thrust ring 5310-99-097-0098	Straight 5935-99-097-0247 or right angle 5935-99-097-0254	Cable ends			1	Interconnecting box to a.c. and d.c. power supplies (ARI. 23143/2). Note . . . (1) <i>Insulation sleeving 5970-99-932-1465 and 5970-99-932-3119 is used to terminate the leads.</i> (2) <i>Destination and identification sleeves 5970-99-932-3456 are coded as required.</i>
	2P/red /blue 3D/red (screened) /blue /green			A B C D E F				27.5V +ve 27.5 -ve and earth 115V, 400 Hz, phase 1 115V, 400 Hz, phase 2 115V, 400 Hz, phase 3 Not used
	or Miniature cable 2P 6145-99-910-0006	(S) Mk. IV 6-pole 19A 5935-99-940-3430 Outlet gasket 5935-99-097-0060 Cable sleeve 5975-99-097-0116 Compression ring 5975-99-097-0104 Union gasket 5935-99-097-0240	Straight 5935-99-097-0247 or right angle 5935-99-097-0254	Cable ends			1	Interconnecting box to d.c. power supply (ARI.23143/1). Note . . . (1) <i>Insulation sleeving 5970-99-932-3119 is used to terminate the leads.</i> (2) <i>Destination and identification sleeves 5970-99-932-3457 are coded as required.</i>

TABLE 4—(Contd.)

Item No. (fig. 1 & 2)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
	Red Blue	Thrust ring 5310-99-097-0098		A B C, D, E, F				27.5V +ve 27.5V -ve and earth Not used
14	As for item 9 except that the lead from pole P at end B is connected to the observer's dimmer control for panel light operation; pole P at end A is not used.						1	Interconnecting box to control unit Type C1607/7 (ARI. 23143/4) (See notes in item 9).
15	As for item 9 except that the lead from pole P at end A is connected to the pilot's dimmer control for panel light operation; the lead from pole P at end B is connected to the pilot's control changeover switch.						1	Control unit Type C1607/7 to control unit Type C1607/4 (ARI.23143/4). (See notes in item 9).

TABLE 5

Connectors for ARI.23143/3

Item No. (fig. 3)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
1	Unitersil 22 Ref. No. 5E/3823		—	—	—	—	As Req'd	General and switch wiring
2	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887		Straight or right angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	1	Transmitter-receiver to homing unit. Note . . . (1) <i>Destination and identification sleeves 5970-99-932 - 3456 coded as required.</i> (2) <i>Where the connector is subjected to ambient temperature greater than 80 deg.C, uniradio 73, 6145 - 99 - 910 - 0030 and plug Type UK-N1, 5935-99-999-0884 should be used in lieu.</i>
3	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887		Straight or right angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	1	Homing unit to u.h.f. aerial relay (See notes in item 2).
4	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887		Straight or right angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	1	Aerial 1 to u.h.f. aerial relay (See notes in item 2).
5	Uniradio 67 6145-99-910-0295	(P) Type UK-N2 5935-99-999-0887		Straight or right angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	1	Aerial 2 to u.h.f. aerial relay (See notes in item 2).

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	End A			End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
6	Uniradio 67 6145-99-910-0295		(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	1	Aerial 1 to v.h.f. aerial relay (See notes in item 2).
7	Uniradio 67 6145-99-910-0295		(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type N 5935-99-932-2405	1	Aerial 2 to v.h.f. aerial relay (See notes in item 2).
8	Uniradio 67 6145-99-910-0295		(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type 5935-99-932-2405	(P) Type UK-N2 5935-99-999-0887	Straight or right angle adaptor Type 5935-99-932-2405	1	Transmitter receiver to v.h.f. aerial relay (See notes in item 2).
9	Unitersil 22 Ref. No. 5E/3893		(P) Cannon K03-21-30PN 5935-99-940-3381	Straight K06-21-5/8 5935-99-940-3395 or right angle K08-21-5/8 5935-99-940-3396 or 45 deg. angle K45-21-5/8 5935-99-940-3397	(S) Cannon K03-21-30SN 5935-99-940-3382	Straight K06-21-5/8 5935-99-940-3395 or right angle K08-21-5/8 5935-99-940-3396 or 45 deg. angle K45-21-5/8 5935-99-940-3397	1	Interconnecting box to control unit Type C1607/4 and 7-way terminal block. Note . . . (1) Pole C of end B is connected to terminal No. 1 of the 7-way terminal block (end C); this is the a.d.f. on/off line. (2) Wire termination sleeves 5975-99-932-1417 to 5975-99-932-1446 are numbered 1 to 30 respectively. (3) Destination and identification sleeves 5970-99-932-3456 are coded as required. (4) All terminations are to be sealed using compound PR1201Q or other approved compound.
		1		A		A		
		2		B		B		
		3		—		C		
		4		D		D		
		5		E		E		
		6		F		F		
		7		H		H		
		8		J		J		
		9		K		K		
		10		L		L		
		11		M		M		
		12		N		N		

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	End A			End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
		13		P		P		
		14		R		R		
		15		S		S		
		16		T		T		
		17		U		U		
		18		V		V		
		19		W		W		
		20		X		X		
		21		Y		Y		
		22		Z		Z		
		23		a		a		
		24		b		b		
		25		c		c		
		26		d		d		
		27		f		f		
		28		g		g		
		29		h		h		
		30		i		i		
10	Unitersil 22 Ref. No. 5E/3893	(P) Mk. IV, 6-pole, 5A, 5935-99-056-0300 Outlet gasket 5935-99-097-0058 Cable sleeve 5975-99-097-0114 Compression ring 5975-99-097-0102 Union gasket 5935-99-097-0108 Thrust ring 5310-99-097-0096		Straight 5935-99-097-0242 or right angle 5935-99-097-0249	Cable ends		1	Interconnecting box to terminal blocks Type B, 2-way, No. 1. Note . . . (1) <i>Insulation sleeving</i> 5970-99-932-1465 is used to terminate the leads. (2) <i>Wire termination sleeves</i> 5975-99-932-1417 to 5975-99-932-1422 are numbered 1 to 6 respectively. (3) <i>Destination and identification sleeves</i> 5970-99-932-3456 coded as required.

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	End A			End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
		1		A				Tel +ve
		2		B				Tel -ve and earth
		3		C				Mic -ve
		4		D				Mic +ve
		5		E				Press to transmit
		6		F				Press to mute
11	Unitersil 14 Ref. No. 5E/3897 Unitersil 22 Ref. No. 5E/3893 Unitersil met-sheath 22	(S) Amphenol 165GB-R44 5935-99-932-1250	Right angle		(P) Amphenol 165GB-72-1 5935-99-940-3390 or (P) Amphenol 165GB-R72 5935-99-932-1246	Straight	1	Transmitter-receiver to inter-connecting box and 7-way terminal block.
	14	1		A				Note . . .
	14	2		Earthing ring and B		Earthing ring and B		(1) Length of connector (end A to end B) must not exceed 10 feet (see para. 22).
	22	3		C		C		(2) Wire termination sleeves 5975-99-932-1417 to 5975-99-932-1458 are numbered 1 to 42 respectively.
	22	4		D		D		(3) Destination and identification sleeves 5970-99-932-3458 coded as required.
	22	5		E		E		(4) All terminations are to be sealed using compound PR1201Q or other approved compound.
	22	6		F		F		The 7-way terminal block (end C) is connected as follows:
	22	7		H		H		Terminal No. 2 to poles A of ends A and B.
	22	8		J		J		Terminal No. 3 to earthing ring and poles B of ends A and B.
	22	9		K		K		Terminal No. 4 to poles E of ends A and B.
	22	10		L		L		
	22	11		M		M		
	Metsheaf 22	12		N		N		
	22	13		P		P		
	Metsheath 22	14		R		R		
	Metsheath 22	15		S		S		
	22	16		T		T		
	22	17		U		U		
	22	18		V		V		
	Metsheath 22	19		W		W		
	Metsheath 22	20		X		X		
	Metsheath 22	21		Y		Y		
	22	22		Z		Z		
	22	23		a		a		

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	End A			End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
	22	24		b		b		Terminal No. 5 to poles K of ends A and B. Terminal No. 6 to poles L of ends A and B.
	22	25		c		c		
	22	26		d		d		
	22	27		e		e		
	22	28		f		f		
	22	29		g		g		
	22	30		h		h		
	22	31		i		i		
	22	32		j		j		
	22	33		k		k		
	22	34		m		m		
	22	35		n		n		
	22	36		p		p		
	22	37		q		q		
	22	38		r		r		
	22	39		s		s		
	22	40		t		t		
	22	41		u		u		
	22	42		w		w		
12	Unitersil 22 Ref. No. 5E/3893	(P) Mk. IV, 6-pole 5A, 5935-99-056-0301 Outlet gasket 5935-99-097-0058 Union gasket 5935-99-097-0108 Thrust ring 5310-99-097-0096		Straight 5935-99-097-0242 or right angle 5935-99-097-0249	Cable ends			1 Interconnecting box to terminal blocks Type B, 2-way, No. 1. Note . . . (1) <i>Insulation sleeving</i> 5970-99-932-1465 is used to terminate the leads. (2) <i>Wire terminations sleeves</i> 5975-99-932-1417 to 5975-99-932-1419 are numbered 1 to 3 respectively. (3) <i>Destination and identification sleeves</i> 5970-99-932-3456 coded as required.

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	End A		End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)		
		1 2 3		A B C D, E, F			Panel lights Earth Tone on/off Not used
13	Unitersil 22 Ref. No. 5E/3893	(S) Mk. IV, 6-pole 19A 5935-99-940-3430 Outlet gasket 5935-99-097-0060 Cable sleeve 5975-99-007-0116 Compression ring 5975-99-097-0104 Union gasket 5935-99-097-0240 Thrust ring 5310-99-097-0098	Straight 5935-99-097-0247 or right angle 5935-99-097-0254	Cable ends		1	Interconnecting box to d.c. power supply. Note . . . (1) <i>Insulation sleeving</i> 5970-99-932-1465 is used to terminate the leads. (2) <i>Wire insulation sleeves</i> 5975-99-932-1417 and 5935-99-932-1418 are numbered 1 and 2 respectively. (3) <i>Destination and identification sleeves</i> 5970-99-932-3456 are coded as required. 27.5V +ve 27.5V -ve and earth Not used
		1 2		A B C, D, E, F			
14	Unitersil Ref. No. 5E/3893	(S) Mk. IV, 12-pole 5A, 5935-99-056-0181 Outlet gasket 5935-99-097-0059 Cable sleeve 5975-99-097-0115 Compression ring 5975-99-097-0105 Union gasket 5935-99-037-0111 Thrust ring 5310-99-012-0204	Straight 5935-99-011-9119 or right angle 5935-99-011-9126	Cable ends		1	Homing unit to 7-way terminal block. Note . . . (1) <i>Insulation sleeving</i> 5970-99-932-1465 is used to terminate the leads. (2) <i>Wire termination sleeves</i> 5975-99-932-1417 to 5975-99-932-1423 are numbered 1 to 7 respectively. (3) <i>Destination and identification sleeves</i> 5970-99-932-3456 coded as required.

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	End A			End B		Qty.	Service and remarks
		Wire No.	Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
		1		A				7-way terminal block terminations:—
		2		B				2
		3		H				3
		4		J				5
		5		K				6
		6		L				7
		7		M				4
								1
15	Unitersil 22 Ref. No. 5E/3893	(P) Mk. IV, 12-pole, 5A 5935-99-056-0363 Outlet gasket 5935-99-097-0059 Cable sleeve 5975-99-097-0115 Compression ring 5975-99-097-0105 Union gasket 5935-99-097-0111 Thrust ring 5310-99-012-0204		Straight 5935-99-011-9119 or right angle 5935-99-011-9126	(S) Mk. IV, 12-pole, 5A, 5935-99-056-0180 Outlet gasket 5935-99-097-0059 Cable sleeve 5975-99-097-0115 Compression ring 5975-99-097-0105 Union gasket 5935-99-097-0111 Thrust ring 5310-99-012-0204	Straight 5935-011-9119 or right angle 5935-99-011-9126	1	Homing unit to indicator and sensitivity switch. Note . . . (1) <i>Wire termination sleeves 5975-99-932-1417 to 5975-99-932-1422 are numbered 1 to 6 respectively.</i> (2) <i>Destination and identification sleeves 5970-99-932-3458 are coded as required.</i> (3) <i>All terminations are to be sealed using compound PR1201Q or other approved compound.</i>
		1	A		A			Sensitivity switch
		2	B		B			Sensitivity switch
		3	J		J			
		4	K		K			
		5	E		—			
		6	F		—			

TABLE 5—(Contd.)

Item No. (fig. 3)	Type of cable or wire	Wire No.	End A		End B		Qty.	Service and remarks
			Plug (P) or socket (S)	Cable outlet or pole	Plug (P) or socket (S)	Cable outlet or pole		
16	Uniradio 81 6145-99-942-4561		(P) Type UK-C3 5935-99-913-3535	Straight or right angle adaptor Type C 5935-99-920-9000	(P) Type UK-C3 5935-99-913-3535	Straight or right angle adaptor Type C 5935-99-920-9000	1	Homing unit to port aerial (forms matched pair with item 17). Note . . . (1) <i>Destination and identification sleeves 5970-99-932-3456 coded as required.</i> (2) <i>Where the connector is subjected to ambient temperature greater than 80 deg.C, uniradio 102, 6145-99-943-3961 and plug Type UK-C1, 5935-99-913-3533 should be used in lieu.</i>
17	Uniradio 81 6145-99-942-4561		(P) Type UK-C3 5935-99-913-3535	Straight or right angle adaptor Type C 5935-99-920-9000	(P) Type UK-C3 5935-99-913-3535	Straight or right angle adaptor Type C 5935-99-920-9000	1	Homing unit to starboard aerial (forms matched pair with item 16). (See notes in item 16).