Chapter III

INSTALLATION

1.0 GENERAL

Since installation of the A.R.I.5206 is not confined to one particular type of aircraft, layout will vary according to loading problems and space available.

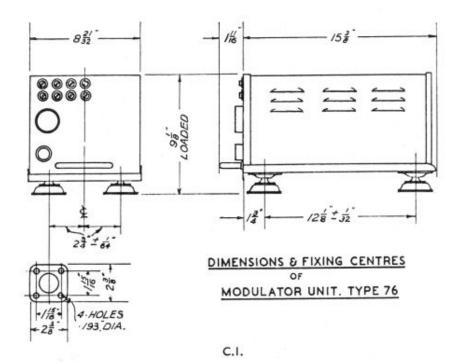
Accordingly, only general suggestions are incorporated in the following chapter for the guidance of those responsible for decisions regarding individual layouts.

2.0 INSTALLING THE MODULATOR UNIT (see C.1)

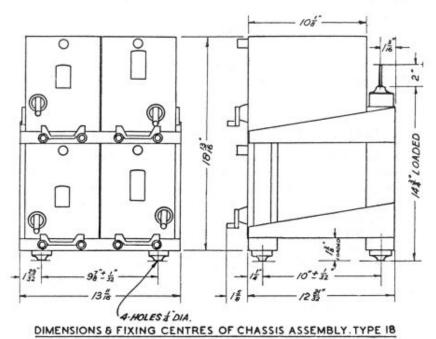
The Modulator Unit must be installed in a horizontal position and as near to the L.T. batteries as practicable to avoid voltage drop.

It need not adjoin the main transmitter-receiver assembly but should nevertheless be in the most accessible position possible to permit ease of inspection or to enable minor adjustments to be made. Adjustments will, under normal circumstances, only be effected when the aircraft is on the ground.

Sufficient clearance must be left to enable the unit to be withdrawn from the mounting tray for overhaul, and provision made for two cable runs to the front of the unit, one from the power supply and the other from the Chassis Assembly.



The mounting tray into which the Modulator Unit slides is fitted with cup type shock absorbers which are secured to the airframe by four bolts per absorber.



02.0-20.0

3.0 INSTALLING THE CHASSIS ASSEMBLY (see C.2, C.3 and C.4)

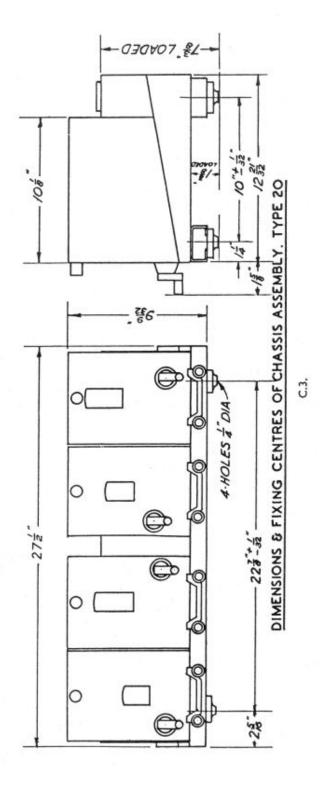
C.2.

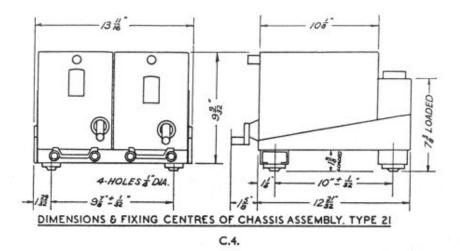
The Chassis Assembly carrying transmitters and receivers should be located at breast height in such a position as to give the operator free manual access to all controls on the front panel of the assembly during flight.

Sufficient clearance should be left in the vicinity of the Chassis Assembly to permit the withdrawal of one or all of the R.F. Units, or even the assembly itself. The latter action would not be expected to be undertaken during flight.

A "Steady Pin" is fitted to Chassis Assemblies supplied for use in aircraft which are likely to be catapulted. This pin, which is mounted on the upper portion of the assembly, is anchored to the airframe via a U-shaped bracket. The additional anchorage prevents excessive horizontal thrust of the Chassis Assembly due to sudden propulsion.

Three separate cables terminate on the rear of the Chassis Assembly linking the Assembly to the Modulator Unit and two control units respectively. Provision should accordingly be made for appropriate cable runs. The transmitters and receivers slide into allocated positions in the Assembly and are secured by knurled locknuts.





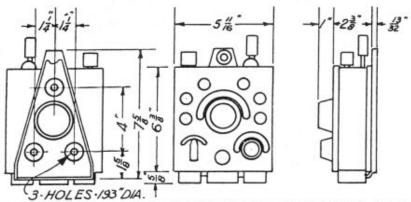
4.0 INSTALLING THE CONTROL UNITS (see C.5)

The Control Units should be installed in such a manner as to give their respective operators clear access to all controls during flight, without the necessity of moving from their stations.

The units themselves are mounted on triangular false backplates in the aircraft, the backplates being permanently secured and the units detachable. No form of shock absorption is employed for this particular mounting.

Sufficient clearance must be left for cable entries at the base of the units, the actual amount depending on the type of equipment and the shape of the cable terminations (i.e. "right angle" or "straight" fittings used).

When the TR.1366 and A.R.1.5206 in combination are to be installed, three cables will be utilized for each control unit, linking



DIMENSIONS & FIXING CENTRES OF CONTROL UNITS
TYPES 260, 260A, 271, 271A & 276

with the mic-telephone set, Modulator Unit and TR.1366 respectively.

When the A.R.I.5206 is used alone two cables only are fitted to each unit, connecting to the mic-telephone set and Modulator Unit.

5.0 INSTALLING THE AERIAL TUNING UNIT (see C.6)

The Aerial Tuning Unit should be installed as close to the H.F. Aerial as possible.

Since it may be neces: ary for a member of the crew to vary the

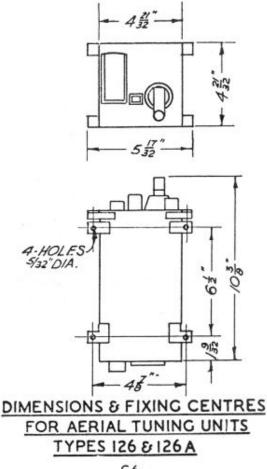
aerial tuning during flight, the location of the unit should permit access for manual operation.

It should also be located so that the front panel may be under the observation of the operator if possible.

When mounting the unit, sufficient room must be allowed to permit the withdrawal of the aerial, earth, and lighting plugs, all of which are situated at the rear of the unit.

The actual mounting is effected via shock absorbers which are bolted to brackets forming part of the dust cover.

Clearance must be left in front of the unit to permit the withdrawal of the interior without dismounting the dust cover.



C.6.

6.0 SCREENING AND BONDING

Complete screening of the aircraft ignition system and any other likely source of electrical interference is absolutely necessary.

The bonding of the aircraft should be in good condition and should be extended to include the equipment under installation.

Chapter IV

INITIAL ADJUSTMENT

1.0 GENERAL

Lining up the A.R.I.5206 after installation and preparatory to operating involves the following actions:—

- (a) Setting the R.F. Circuits for the required working frequencies.
- (b) Setting preset noise adjuster on the receivers for optimum reception.
- (c) Checking the general functioning of the equipment.

These actions also apply to lining-up from time to time on new working frequencies, and checking that the equipment is functioning properly. However, the procedure for tuning the aerial circuits of the transmitters need not be carried out in its entirety on every occasion if the initial adjustments are recorded.

If this is done, the aerial circuits can be set entirely to dial readings for any frequency previously used; and if readings are established over a wide band of frequencies, a chart may be drawn up enabling the equipment to be set for any frequency entirely by dial readings.

Detailed step-by-step routine instructions for lining up by the normal Ground Staff are given in the Instruction Manual No. I.M./101 on the A.R.I.5206. The following is a general explanatory description of the procedure involved. For convenience the procedure is described separately for each R.F. Unit.

Notes on the Type 260 Control Unit

(I.I) Type 260 (Air Gunner's) Control Unit

If the A.R.I.5206 is used alone the TR.1366 switch on the Type 260 Control Unit must be kept in the ISOLATE position.

If the A.R.I.5206 is used in combination with the TR.I366, the TR.I366 switch on the Type 260 Control Unit is normally kept in the "TR.I366" position.

During lining up of the receivers however, if operating from the Type 260 Control Unit, the TR.1366 switch may be put to Isolate so as to cut out any possible background from the Intercommunication system.

2.0 H.F. TRANSMITTER

(2.1) Setting of R.F. Circuits

First, all the R.F. Circuits in the H.F. Transmitter Unit are adjusted for the desired working frequency. This is done by setting the Band switch and Oscillator Tuning Control to the appropriate dial readings. The Oscillator Tuning Control is then locked.

Next the equipment is set for H.F., M.C.W. or R.T., and switched on by means of the Control Unit. The Intertune switch on the H.F. Transmitter Unit is put in the OFF position. With the transmitting key held down, the aerial circuit is then tuned by the control on the Aerial Tuning Unit to give maximum aerial current, this should approximate .6 Amp.

(2.2) Functional Checks

The last operation above will show whether the equipment is functioning normally on M.C.W. or R.T. A check on H.F. C.W. full power can be made by operating the corresponding switches on the Control Unit, and seeing that the aerial current rises to approximately 1.5 Amps.

The actual aerial currents obtained will depend on the characteristics of the aerial used. They should be recorded, so that subsequent readings can be compared with them as a check that the operation of the equipment has not deteriorated.

The M.C.W. and R.T. conditions are verified, recording the aerial currents for future reference, and checking that the current rises slightly during modulation on R.T.

During these tests, sidetone should be heard in the telephones.

3.0 M.F. TRANSMITTER

A trailing aerial is normally used for transmitting on medium frequencies. Therefore, lining up and checking on the ground can be done only with the artificial aerial (Type I or I.B.) provided, or with the M.F. fixed aerial. Final lining-up (it involves only resetting the Aerial Tuning Controls) necessitates a flight on the first occasion a new frequency is used, or until a tuning chart has been compiled. Thereafter, all lining up may be done on the ground to dial settings.

(3.1) Setting of the R.F. Circuits

All R.F. Circuits are adjusted by the controls on the M.F. Transmitter Unit. First, the Band switch, Oscillator Tuning Control, and the Coarse and Fine Aerial Tuning Controls, are set for the appropriate dial readings. The Oscillator Tuning Control is locked.

The equipment is set for M.F. C.W. full power and switched on. The Intertune switch on the Transmitter Unit is put to OFF.

With the key pressed, the Fine Aerial Tuning Control is adjusted to give maximum brilliance on the Aerial Tuning Indicator.

(3.2) Functional Checks

The proper functioning of the transmitter will be denoted by the lighting up of the Aerial Tuning Indicator. Operation on low power may be verified by changing to this condition and checking that the brilliance of the Aerial Tuning Indicator decreases proportionally.

During the tests, sidetone should be heard in the telephones when the key is pressed.

(3.3) Final Tuning of Aerial Circuit on Trailing Aerial

With the equipment lined up according to 3.1 above, it is operated during flight with the trailing aerial. The Aerial Tuning Controls are re-set to give maximum brilliance of the Aerial Tuning Indicator, and the dial reading recorded.

4.0 H.F. RECEIVER

NOTE.—The H.F. Receiver should not be lined-up until lining-up of the H.F. Transmitter has been completed.

(4.1) Setting of R.F. Circuits

The Aerial circuit trimmers C.4 and C.5 must be adjusted for maximum noise output. This should be done at 13 mc/s on band 1 and 5.9 mc/s on band 2. The remaining circuits of the H.F. Receiver are tuned by setting the Band switch, Oscillator Tuning Control and R.F. Tuning Control, to the appropriate dial settings. The Oscillator Tuning Control is then locked.

(4.2) Setting of the Preset Noise Adjuster

The best Signal/Noise ratio under a given condition can be obtained during flight by means of the Noise Adjuster on the Control Unit. The base line around which this control operates, however, is determined by the preset noise adjuster, located under a mask on the front panel of the H.F. Receiver Unit.

The preset adjuster is set by switching on the equipment in the H.F. C.W. condition and with the R.F. Control on the H.F. Receiver adjusted until maximum noise is heard, putting the Noise Adjuster on the Control Unit in its maximum position, and setting the preset adjuster until background noise is just audible, or alternatively tuning the receivers to a weak signal and setting the preset adjuster for best signal/noise ratio. In general it will be found that the Noise Adjuster can be left set for maximum gain (fully clockwise) if there is little static or engine interference.

(4.3) Functional Checks

The foregoing adjustments will indicate whether the receiver is "Live." If a station can be picked up other checks can be made, viz. :—

- (a) Rotating the H.F. Tune Control should affect reception.
- (b) Cutting in the note filter should make the tuning appreciably sharper, and reduce noise.
- (c) Rotation of the Noise Adjuster should alter the noise level if no signal is present.

5.0 M.F. RECEIVER

The procedure on this receiver is similar to that given under paragraph (4.0) above, except that :—

- (a) It is most important for best signal to noise condition to adjust C.4 and C.5 (aerial trimmers) at 500 and 270 kc/s for maximum noise output with the aerial connected. Providing that the aerial is not changed there is no need to repeat this procedure at any other frequency. In practice it will be found that after having adjusted the preset noise adjuster on the receiver, to suit static conditions, that an even better operational signal to noise condition may be obtained by finally adjusting the NOISE ADJUST on the control unit.
- (b) The M.F. Tune Control is used instead of the H.F. Tune Control.
- NOTE.—After both receivers have been lined up and checked, DUAL reception may be tried. Having changed to this condition, there should be a rise in background noise, and stations working on both channels should be audible simultaneously, and controllable by manipulation of the M.F. and H.F. Tune Controls.

Chapter V

OPERATING

1.0 GENERAL

This Chapter describes the general procedure for operating the A.R.I.5206. Detailed instructions for the air-crew are laid down in the Instruction Manual (No. I.M.101).

It is assumed that the equipment has already been adjusted for the required working frequencies, as described in Chapter IV.

The A.R.I.5206 may be used with or without a TR.I366 in the same installation, and operating will first be considered for the case where the TR.I366 is not fitted. The additional facilities and operations for installations comprising both types of equipment will then be described.

All operating is done from the Control Units. When reading the text it will be found helpful to refer to Plates XXIV, XXVI and XXVII showing these units (pages 53, 55 and 56).

2.0 OPERATING THE A.R.I.5206 WITHOUT THE TR.I366

(2.1) Switching ON and OFF, Taking Control

NOTE.—During the following operations the TR.1366 switch on the Type 260 Control Unit must be kept in the ISOLATE position.

The equipment is switched on from either Control Unit by the ON/OFF switch. (In the case of the Type 271 Control Unit, the action must be followed by pressing the "Take Control" button.)

The equipment will now be "live," and intercommunication will exist between Air Gunner and Observer. Control of the A.R.I.5206 may be taken by either Observer or Air Gunner, each pressing his "Take Control" button.

To switch off the equipment, the ON/OFF switch is put to "OFF," but it should be noted that this operation on the Observer's Control Unit is only effective if the Air Gunner's ON/OFF switch is already at "OFF," otherwise, the effect of this operation is to put the control back to the Air Gunner, thus it will be seen that the AIR GUNNER'S POSITION IS THE MASTER CONTROL POSITION.

(2.2) Receiving

Assuming the equipment is switched on it will automatically be in the "receive" condition.

For keeping watch, the "H.F. and M.F. Tune" controls should be set to zero degrees, as the receivers

are calibrated for this condition. The note filter should be "out" so that the audio response is relatively flat.

Watch may be kept on both channels simultaneously by putting the Channel Switch to "Dual," and the Service Switch to H.F. C.W. or M.F. C.W., otherwise the Channel Switch should be at "Single" and the Service Switch in a position appropriate for the expected signal.

The Noise Adjuster on the control unit should be set to give just audible background noise.

On hearing a call, optimum reception is obtained by trimming the appropriate "Tune" Control and the Noise Adjuster. If the signal is C.W. or M.C.W. and interference is present, the note filter can be cut in, and the "Tune" Control and Noise Adjuster re-set.

(2.3) Transmitting

The Service Switch is set for the type of transmission and frequency band desired. (If M.F. C.W. or H.F. C.W. is selected the Power Switch must be set to "Full" or "Reduce" as required.)

It is then only necessary to manipulate the transmitting key or to hold down the "Press-to-Trans." Switch and speak. (The "Press-to-Trans." Switch functions on R.T. only.)

3.0 OPERATING THE A.R.I.5206 WITH THE TR.I366

Where the TR.1366 and the A.R.I.5206 are installed in combination, the operating procedure under paragraph (2) still applies, but there are certain additional facilities and operations. On such installations, both positions of the TR.1366 switch on the Type 260 Control Unit are operative; and the Observer's Control Unit (Type 276) has a TR.1366 key with three positions—"Rec," Trans," and "Rec, G.P."

The Chart in paragraph 3.1 shows the various conditions obtainable and the corresponding switch positions. As there are two positions for the TR.1366 key on the Air Gunner's Control Unit, and three positions for the TR.1366 key on the Observer's Control Unit, and as control of the A.R.1.5206 may be taken by Air Gunner or Observer, there are twelve conditions possible. Not all of these are likely to be needed, but the chart is given to indicate all the conditions which may result from the various control settings possible.

(3.1) CHART OF FACILITIES AND CONTROL POSITIONS FOR A.R.I.5206/TR.1366 INSTALLATIONS

the column downwards and read across to the left to find the facilities given for Air Gunner or Observer. An example To determine the facilities given by a particular group of control positions, select the control position in use, follow of the procedure is given below. To determine control settings required for a particular group of facilities, follow

the column upwards and read across to the left to find the settings necessary.

NOTE.—Unless otherwise indicated Intercommunication includes Pilot, Observer and Air Gunner.

- x, x x x 80 x x 80 x x x x 80 x x x x x 80 x x x x
R. 1366 Key 150LATE N. Gunner's REC. P. 1366 REC. R. 1366 REC. Control, of A. Gunner N. R. 15206 AGG Aren by Observer AR. 15206 AGG AGG AGG AGG AGG AGG AGG A

EXAMPLE :- The operator requires to know what facilities are available when the switches on the Type 260 and Type 276 Control Units

are set in the following manner:—
TR.1366 Switch on Type 260 (Air Gunner's) Control Unit to ISOLATE.
TR.1366 Switch on Type 276 (Observer's) Control Unit to RECEIVE.
Control of the A.R.1.5206 is taken by Air Gunner.
An inspection of the Chart will reveal that in column 4 of the section entitled CONTROL POSITIONS, each of the above settings is denoted by the letter X placed opposite to the tabulated possible switch positions on the extreme left.

The column 4 should then be followed downwards until the FACILITIES GIVEN section of the chart is reached. Here it will be seen that the column divides into two sub-columns entitled AG and OBS respectively. In the AG column reading across to the extreme left from the

points ir dicated by the letter X, it will be seen that the Air Gunner may (1) transmit on the A.R.I.5206, (2) receive on the A.R.I.5206, (3) transmit on Intercommunication. In the OBS column again reading across to the left from the points indicated by the letter X, it will be seen that the Observet may (1) receive on the TR.1366, (2) transmit on Intercommunication.

Chapter VI

MAINTENANCE

1.0 GENERAL

The term "maintenance" is here used to denote the day-to-day upkeep of the equipment by the normal staff working on a routine basis. It does not embrace the diagnosis and clearance of faults other than the most simple ones. The more serious faults are dealt with in a series of Fault Charts (Figs. 16 to 22).

- "Maintenance" of the equipment is therefore considered to comprise the following:—
 - (a) Checking the general functioning of the equipment.
 - (b) Reducing chances of failure by regular inspection and attention.
 - (c) Locating and clearing the simple faults, including replacement of valves.
 - (d) Locating and replacing defective units, i.e. where the fault is not due to defective consumable items.

The routine to be carried out by the maintenance crews in the execution of the above are laid down in detail in the Instruction Manual No. I.M./IOI. The following is a statement of the facilities needed, and a review of the work to be done by the maintenance crews.

2.0 FACILITIES NEEDED

(2.1) Number of Personnel

No maintenance operation requires more than one man.

(2.2) Space, Layout and Power Supplies

All work can be carried out in the aircraft. For the examination of and attention to the units when removed from their mountings, however, it would be a convenience to have a bench with an approximate surface of 3 ft. \times 2 ft. or larger, in a place protected from the weather.

(2.3) Equipment

(I) Tools and Materials

ltem	Needed for
I — 8-in. Screwdriver	Releasing dust cover catches
I — 3-in. Screwdriver	General use
I — pair 6-in. Combination Pliers	General use
Soft lint-free Cloth	Cleaning Purposes

(2) Test Gear

Item

Needed for

Avometer, or other suitable continuity tester complete with flex leads Continuity checks of wiring and cabling

3.0 WORK TO BE CARRIED OUT

(3.1) Regular Duties

(I) Daily Inspection

The connections to the aircraft supply battery should be checked.

Connections to microphones, telephones, transmitting keys, and the aerials themselves, should be checked, as items most likely to become worn.

Finally, the equipment should be run-up on both frequency bands and on all services, to see that it is functioning properly. (If a change of frequency has been made, this operation will have to be carried out automatically as part of the lining-up procedure.)

(2) 30-hour Inspection

After every period of 30 flying hours, a general mechanical check of the installation should be made, verifying that :—

- (a) Shock absorbers are in good order.
- (b) Units are secure in mountings, and mountings are secure in aircraft.
- (c) Cable connections are screwed tight.
- (d) Aerial insulators are in good condition.
- (e) The brushes and commutator of the rotary converter are in good condition.
- (f) The general condition of the units is satisfactory and that the relay contacts show no signs of burning.
- (g) The frequency calibration of the four R.F. units is correct.

(3) 180-hour Inspection

The opportunity should be taken when the aircraft is undergoing 180 hours overhaul to inspect and clean the equipment in the following manner:—

- (a) The pins on the cable terminations should be examined, and if dirty, cleaned.
- (b) The bonding of the installation should be carefully examined.

(c) Remove the units from the aircraft and pass them to a W/T workshop for examination and test even if they appear to be still functioning satisfactorily. (Procedure to be followed by personnel in the W/T workshop on units passed in for examination is given in section 4.0.)

(3.2) Handling of Faults

From the viewpoint of maintenance, faults may be considered to fall into three classes :—

- (a) Failure of items external to the units, i.e. battery supply, cables and cable connections.
- (b) Failure of consumable items in the units, i.e. valves and fuses.
- (c) Failure of items in the units other than valves and fuses.

It is recommended that faults found in classes (a) or (b) should be cleared by the maintenance crew. Faults found in class (c) should be traced to the unit involved, and the maintenance crew should then remove the unit and fit a new one.

The routine for diagnosing and handling faults as given in the Instruction Manual I.M./101 is based upon the above procedure.

Units containing faults other than defective valves and fuses should be passed to a suitable repair organisation.

4.0 WORKSHOP PROCEDURE

The procedure in the W/T workshop should be to give the units a general examination, carrying out any re-alignment found necessary. (If during the tests a fault is discovered, the fault should be located and remedied. A series of Fault Charts (Figs. 16 to 22) are provided for detailed fault location.)

In carrying out the general examination the following points should be attended to :-

Blow out any dust and dirt.

Examine valve pins for cleanliness.

Examine brushes and commutators of rotary converter.

Replace any valves and fuses which have had a life of 1000 hours even if they are still working satisfactorily.

Check all controls for smooth working.

Look for broken wiring or joints and for broken components.

Look for any shorting connections and for frayed or rubbed insulation.

Look for any signs of charring or overheating.

Check that no component or assembly is working loose on its mounting.

Chapter VII

FAULT LOCATION AND REPAIR

1.0 FAULT LOCATION

During service, faults of varying description are liable to occur in any part of the equipment.

Since it is manifestly impossible to tabulate a complete list of causes of failure, a circuit tracing procedure has been outlined which takes the form of a series of fault charts. These charts (Figs. 16 to 22) are located at the end of the manual.

Individual charts covering the various units have been included and it is anticipated that personnel following the suggestions outlined in these charts, will find little difficulty in clearing faults, irrespective of their nature.

Localization of a fault to a particular unit is of primary importance in the A.R.I.5206, due to all R.F. units being dependent upon a common power supply and to varying degrees, upon common I.F. and audio circuits.

The first action to be taken, when a fault is suspected in a particular unit, should be to check the functioning of the remainder of the equipment, sufficient information may thereby be gained to confirm, or dismiss the suspected unit as the source of trouble.

When a unit is known to be faulty it should be removed from the aircraft and checked with the aid of suitable instruments and the fault charts.

2.0 REPAIR

(2.1) General

The following paragraphs are intended to provide guidance in the dismantling and re-assembly of component parts of the A.R.I.5206. Such dismantling may be necessitated by the development of serious faults in, or injury to the equipment.

Since faults or damage may occur in any part of a particular unit, a general description of dismantling procedure has been given and application will depend upon individual circumstances.

(2.2) Workshop Facilities Needed

(I) Tools

The following minimum number of tools are required:

- 8-in. Screwdriver.
- 1 3-in. Screwdriver.
- I Soldering Iron.
- I Pair 5-in. Round-nose Pliers.
- I Pair 6-in. Combination Pliers.
- I Pair Sidecutters.

(I) Tools—continued

Assorted Files.

I — Complete set 0 to 8 BA Flat Spanners.

I — Complete set 0 to 8 BA Box Spanners.

(2) Materials

Fine grade glasspaper. Carbon Tetrachloride. Resin cored solder. Soft lint-free cloth.

(2.3) Dismantling the H.F. Transmitter

(I) Removing the front panel

When removing the front panel of the transmitter it will first be necessary to detach all external control knobs. These knobs are fitted to the tuning control, band change and panel light dimmer shafts respectively, and are retained in position by grub screws. The tuning control lock need not be removed, but must not be in the "locked" position.

The above action should be followed by the release of small retaining screws situated at the upper left and right-hand side of the panel.

Finally, with the dust cover removed, nuts located at the rear of the panel for the purpose of securing the lifting handle eyebolts are released. The eyebolts handle and panel are then withdrawn.

(2) Detaching the Coil Cans

The cans may be removed quite readily to permit coil inspection. Each is held in position by three retaining screws, two of which are situated diagonally on the top, and the remaining one on the side near the base. These screws are clearly indicated by a surrounding ring of red paint.

While no further information regarding the removal of the cans covering inductances L.I and L.2 need be given, that covering L.3 requires extra comment.

The structure of the can of L.3 is slightly different to that of L.1 and L.2 inasmuch that it is fitted with a detachable lid which may be released when the top screws are withdrawn.

Inside the front wall of the can is mounted a mechanical link connection to the band change switch. This connection must be sprung by slight hand-pressure to permit withdrawal of the cover.

The panel lamp should be detached from its bracket on the side of the can and the anode leads to V.2 and V.3 released.

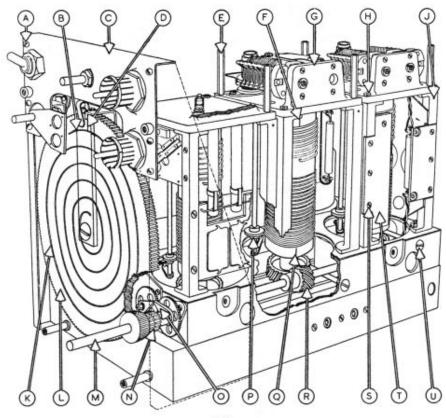
The remaining screw in the base of the can may then be withdrawn and the can passed over the anode resistors and so finally removed.

(3) Withdrawing the Inductance Assembly (see G.1)

It is possible to withdraw the inductance assembly complete with dial mechanism, should the assembly need replacement.

For this purpose it is necessary to remove the front panel as described in paragraph 2.3 (I) and to release the retaining screw (A) from the sub-panel (C) mounted on the chassis uprights. The sub-panel should then be carefully twisted in an upwards and sideways (to the left) direction in order to give ample clearance for the dial withdrawal.

Three countersunk retaining screws (U) should then be withdrawn from the right-hand side of the chassis near the base, and with the chassis inverted all wiring connections to the Inductance Assembly should be unsoldered.



Finally, four small retaining screws (not shown in the sketch) securing the base of the Inductance Assembly to the chassis should be released. These screws are readily accessible from the underside of the chassis.

The Inductance Assembly will now be quite free, and with the chassis in an upright position, may be lifted upwards and withdrawn.

It is most inadvisable to dismantle the dial mechanism, but if such action becomes essential, careful reference should be made to the sketch during re-assembly.

The dial is re-set so that the black scale rider (B) is centred on the black setting up mark (D) on the outer edge of the scroll groove (K). The shaft (M) should be rotated in an anti-clockwise direction until the cams (O), on the stop mechanism, lock, before setting up the dial mechanism. The split pinion (N) should also be set to avoid backlash. This is carried out by rotating the free half to the fullest extent of its spring tension, then releasing it one tooth before engaging the gearing on the dial (L) with the pinion.

If replacement of a rotating inductance is necessary it may be carried out by removing the associated top plate (G) and withdrawing the inductance from its bearings. The top plates are held in position by screws (H) and columns (E). The columns are pinned at points (J) and the pins must be driven out before the columns can be released.

When inserting a new inductance the marks (F and Q) engraved thereon must be aligned with the centre of the pinion (R) and a similar mark on the underside of the associated top plate. The shaft (M) should be in a maximum clockwise position during this operation and the roller (P) set on the top winding of the inductance.

The thermostat is mounted on the panel (T) and if necessary may be removed by detaching the screws (S), turning the panel outwards and unsoldering the connections.

(2.4) Dismantling the H.F. Receiver

(I) Removing the front panel

The front panel of the receiver may be removed in a similar manner to that outlined for the H.F. Transmitter except that two screws on either side of the lifting handle must be released before the panel can be detached.

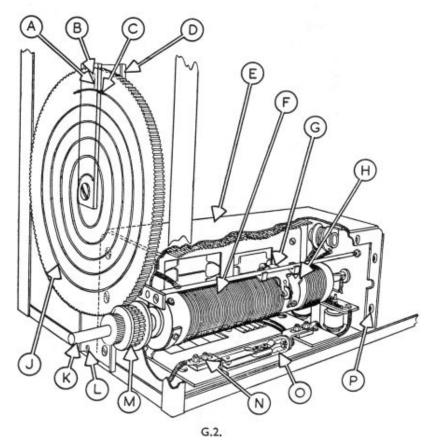
(2) Detaching the Oscillator Unit (see G.2)

Where inspection of the oscillator is required the whole oscillator compartment need not be withdrawn from the chassis, since detachment of the side panel will permit of reasonable access to the interior.

This panel is located on the right side of the oscillator compartment and is retained in position by sixteen countersunk screws. The screw heads are ringed with red paint for identification purposes. The cover plate is not shown in the sketch, but three of the threaded bushes (P) into which the countersunk bolts are fitted appear.

When replacing the cover, care should be taken that all screws are tightened securely and that contact faces of both cover and compartment are clean and well fitting.

Should it become necessary to replace the oscillator compartment or to effect major repairs thereto, the compartment, complete with valve socket and dial mechanism may be withdrawn without



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great difficulty, providing the front panel has been detached.

The compartment (E), which slides into the chassis is retained in position by the steel member (D) supporting the dial. This member is secured at top and bottom to the chassis by bolts (L and B), which must be withdrawn before any attempt is made to remove the compartment. The wiring to terminals at the rear of the compartment should then be detached and the oscillator valve removed. The compartment complete with dial may then be eased forward from the chassis.

Should the dial be removed it will be necessary to reset the inductance and dial gearing in correct relation. For this purpose the shaft (K) should be rotated in an anti-clockwise direction until the stop (H) contacts the roller carrier (G), the roller will then be resting upon the end turn of the inductance (F). The dial gearing should be meshed with the pinion (M) in such a manner that the scale rider is situated centrally with the setting mark (A) on the outer edge of the scroll groove (J). The pinion (M) is of the split pattern and must be set to avoid backlash. This is accomplished by rotating the free half to the fullest extent of its spring tension, then releasing it one tooth before meshing it with the dial gear.

The thermostat (O) may be removed if necessary by releasing the nuts (N) at both ends of the thermostat.

(3) Removing the Ganged Condenser C.I, C.2

The ganged R.F. condenser, C.I, C.2 is secured to a chassis bracket at four points, the condenser, wiring and bolts all being accessible from the left-hand side of the chassis.

The condenser may be withdrawn (providing the front panel has first been removed) following the release of the holding bolts and the associated R.F. dial. Lamp LP.2 is clipped to the condenser and should also be detached.

(4) Resistance and Condenser Panels

The resistance panels in the lower compartment of the chassis are secured in the conventional manner.

Should it become necessary to remove the complete vertical panel, the oscillator compartment must first be withdrawn to permit access to the heads of the retaining screws.

(5) Removing the Switch S.I

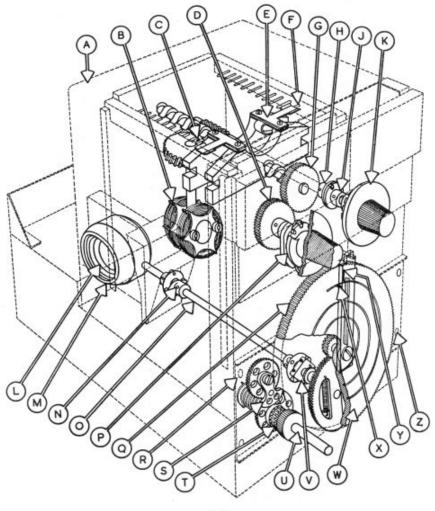
The band switch S.I is screwed to the upper deck of the chassis, the heads of all screws being accessible.

In addition to the removal of wiring and holding bolts, the clevis pin securing the crank arm to the front panel switch mechanism must be withdrawn before the switch can be finally detached.

(2.5) Dismantling the M.F. Transmitter

(I) Removing the Front Panel (see Plate XXVIII)

The procedure for removing the front panel of the transmitter is similar to that adopted for the other units. All control knobs are released, the screws at the top corners of the panel extracted and handle eyebolts removed. The panel may then be withdrawn.



G.3.

(2) Removing and re-assembling the sub-panels and Main Coil Assembly (see Plates XXIX and XXX. Also G.3)

With the front panel removed, three sub-panels, fitted horizontally to the upright chassis members, will be observed. Any one of these sub-panels may be detached provided retaining screws holding each to the chassis, and the mechanical and electrical connections on the rear side of the panels are released.

The upper or aerial indicator panel is fitted on the rear face with wiring to the aerial socket, dimmer control and neon indicator lamp.

The centre panel mounting the output circuit tuning indicators is coupled to the output coil gearing.

The lower panel carries the dial gearing which is secured to the oscillator variometer via the drive mechanism. The grub screws in the flexible joint on the driving shaft must be loosened before this panel can be withdrawn.

If the centre panel has been removed for any purpose it will be necessary to re-set the tuning control indicators in correct relation to the output coil.

For this purpose with the panel removed both dials (K) are set on three respective Geneva movements (P) for maximum reading (as would be indicated at the front panel window aperture). The wiper contacts (E) on the top of the output coil are then arranged by rotation of the coupling (H) so that they rest centrally on the first pair of fixed contacts (F).

The variometer (B) in the output coil is then rotated via pinion (G) until an engraved mark (C) on the pinion is directly under an inspection hole provided in the top of the screen (A).

The couplings (H and J) and the pinions (D and G) are engaged on fitting the centre panel.

The oscillator variometer is mounted on a metal bracket which is in turn bolted to the underside of the chassis.

If the lower panel has been removed it will be necessary on re-assembling the coupling mechanism to ensure that the variometer is set in correct relation to the dial mechanism.

For this purpose the variometer must first be rotated to a position of minimum inductance, with the rotor (L) and stator (M) in the same plane and the winding in opposition. With the grub screws on the flexible joints of the driving shaft (N) loose and maintained in an accessible position, the scroll mechanism is rotated via the driving shaft (U) in an anti-clockwise

direction until the cams (S), in the stop mechanism, lock. The scale rider (X) should now rest centrally on the black setting mark (Y) on the outside edge of the scroll groove. If this is not the case due to the dial mechanism having been dismantled, the dial (W) should be unbolted from the mounting plate (R) and the gearing (Q) re-engaged with the pinion (T) at the appropriate position. The pinion (T) should be set in the manner described in Sub-section 2.4 (2) to avoid backlash. (See G.4.)

When the foregoing conditions have been fulfilled the grub screws (N) on the driving shaft (O) may be tightened up. Final trimming may be carried out by adjustment of centering screws on coupling (V).

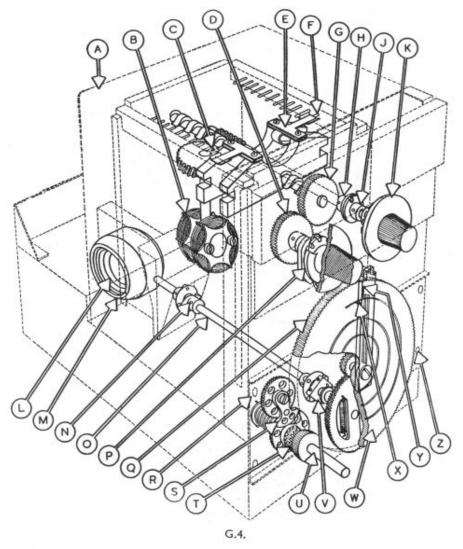
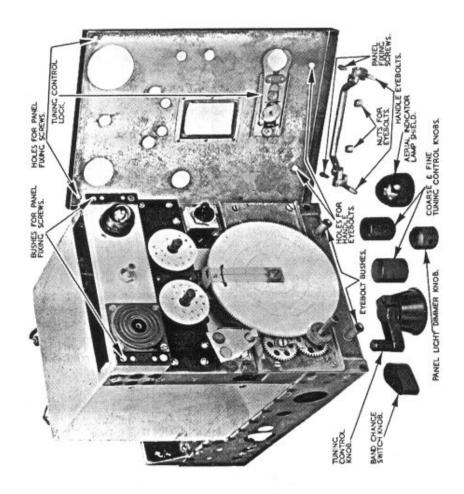


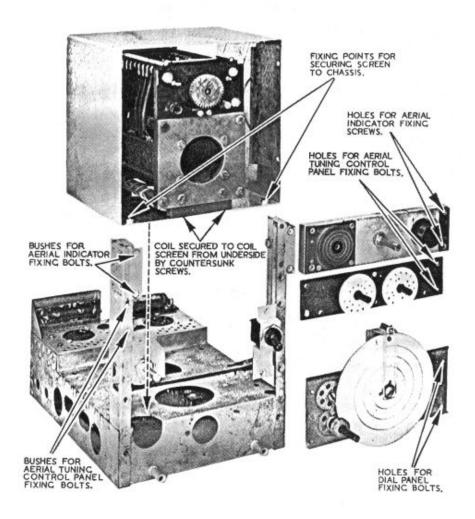
PLATE XXVIII



M.F. TRANSMITTER UNIT (Front panel removed)

A.R.I.5206

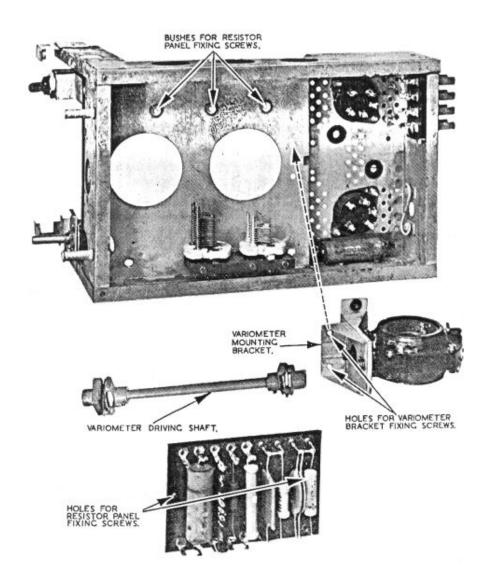
PLATE XXIX



A.R.I.5206

M.F. TRANSMITTER UNIT (Dial mechanism and coil assembly removed)

PLATE XXX



A.R.I.5206

M.F. TRANSMITTER UNIT (Oscillator variometer removed)

If for any reason it becomes necessary to remove the main output coil entirely, both screen and coil must be detached together. The screen is screwed to the chassis by four bolts inserted from the underside of the deck. External wiring will require releasing before the assembly can be removed.

Following removal of the assembly, the coil may in turn be separated from the screen by the withdrawal of four countersunk screws on the screen base.

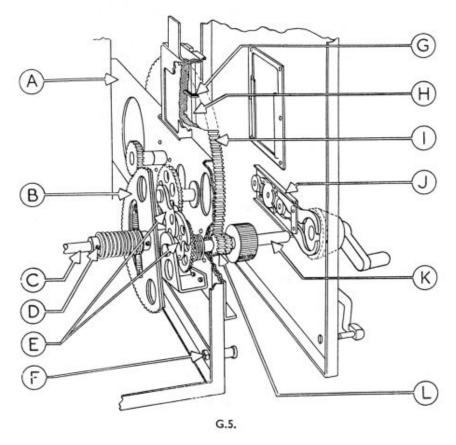
(2.6) Dismantling the M.F. Receiver

(I) Removing the front panel (see Plate XXXI)

The procedure for removing the front panel is similar to that previously described for other units.

(2) Removing the dial mechanism (see Plate XXXII. Also G.5)

The front panel of the unit must be removed in the manner already described before the dial mechanism can be dismantled. It should be again emphasized that dismantling of this mechanism should only be carried out in cases of absolute necessity.



The dial mechanism mounting plate (A) is secured to the chassis uprights by four bolts. These should be withdrawn and the grub screws (D) on the flexible coupling to the condenser shaft (G) loosened. The panel lamp should also be unclipped from the cursor bracket. The mounting plate may then be withdrawn.

(3) Removing the ganged condenser and small components (see Plates XXXII and XXXIII)

The ganged condenser C.1, C.2 and C.3 is fitted with mounting brackets, the whole assembly being bolted to the underside of the chassis deck.

The removal of the condenser entails the detachment of external wiring, the release of the chassis holding bolts from the upper deck and the slackening of the grub screws on the universal joint linking the condenser to the dial mechanism. A holding bolt of relay K must also be released.

The keying relay (K) complete with mounting bracket is bolted to the upper deck of the chassis. To remove the relay it is necessary to detach all wiring and the holding bolts, to which access may be had from the lower deck. The relay and bracket may then be removed.

The practice of mounting resistors on sub-panels has been followed in the construction of the unit. The sub-panels are bolted in the normal manner to the chassis structure. Two such panels are illustrated on Plate XXXII having been removed from the vertical steel member on the left of the upper deck.

Since the top cover plate of the aerial filter may be removed for inspection, it is improbable that the whole assembly will ever need removal. It is, however, possible to detach the casing by releasing all wiring and holding bolts from the chassis structure.

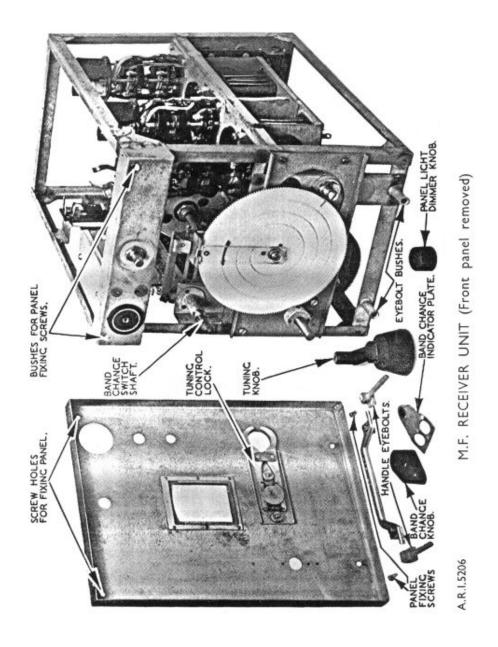
The interstage transformers and valve sockets are constructed as far as possible on a sub-unit basis, each holder or transformer carrying associated resistors and condensers in a compact arrangement.

In the event of a serious failure in a particular stage, a whole sub-assembly may be withdrawn following detachment of external wiring and the release of the holding bolts securing the assemblies to the chassis.

(4) Removing the switch assembly

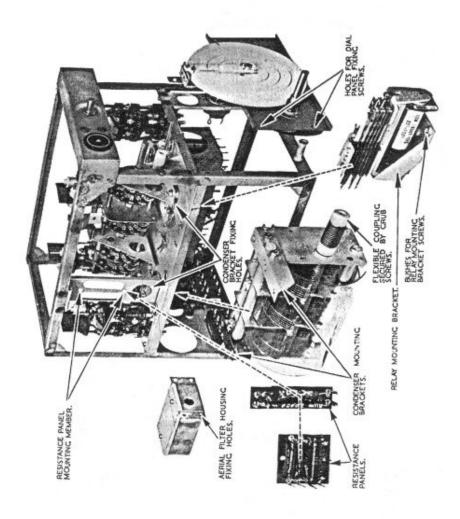
Finally, the complete switch assembly S.I, mounted on the upper deck of the chassis, may be removed providing the band change switch crank arm

PLATE XXXI



97

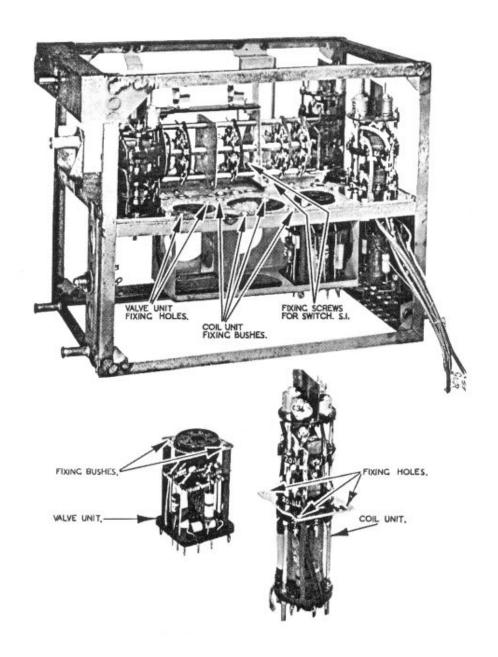
PLATE XXXII



M.F. RECEIVER UNIT
(Dial mechanism and components removed)

D 1 C304

PLATE XXXIII



A.R.I.5206

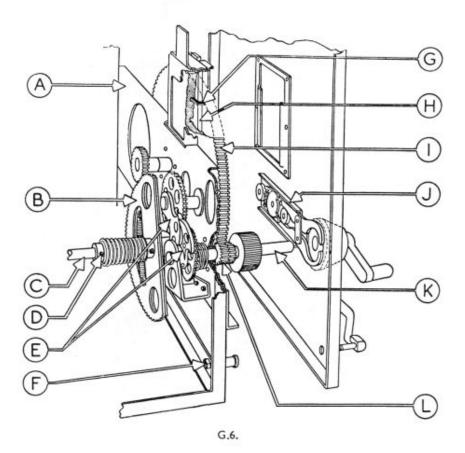
M.F. RECEIVER UNIT (Coil units removed)

and all associated wiring and holding bolts are released. Access to these bolts is obtained from the upper deck of the chassis.

(5) Resetting the dial mechanism (see G.6 and Plate XXXII)

Where the dial mechanism or condenser C.1, 2, 3 has been removed for repair it will be necessary to reset these components in proper relation during re-assembly.

The driving shaft (K) should first be rotated in an anti-clockwise direction until the cams (E), on the stop mechanism, lock. In this position the scale rider (G) should centre on the black setting mark on the outer edge of the scroll groove on the dial. If this is not the case it will be necessary to remove the dial from its mounting and re-engage its gearing (I) in the correct position with relation to the pinion (L). This pinion is of the split pattern, and must be set to avoid backlash. This is accomplished by rotating the outer half to the fullest extent of its



spring tensions and releasing it one tooth before engaging it with the dial scroll.

The condenser C.1, 2, 3 when mounted should be so arranged that the rotating vanes are in a position of minimum capacity, i.e. right out.

When the foregoing conditions have been fulfilled the panel carrying the dial mechanism may be mounted on the chassis, care being taken that the flexible coupling connects the condenser shaft (C) to the quadrant (B). The grub screws (D) on the coupling may then be tightened up.

(2.7) Dismantling the Modulator Unit (see Plate XXXIV)

(I) Removing the Rotary Converter

The dust cover is removed from the modulator unit in the manner already described.

The rotary converter, complete with filter circuits may then be withdrawn by releasing four holding screws at the respective corners of the converter base plate. The screws are accessible from the upper deck of the chassis.

(2) Removing small components

Since the unit method of construction has been employed as far as possible, interstage transformers and valve bases are designed to incorporate associated resistors, condensers, etc. These sub-assemblies are bolted to the upper deck of the chassis, and are detachable providing external wiring is first released.

Coil cans are secured to the chassis in the conventional manner by two bolts diagonally situated at the base of the cans.

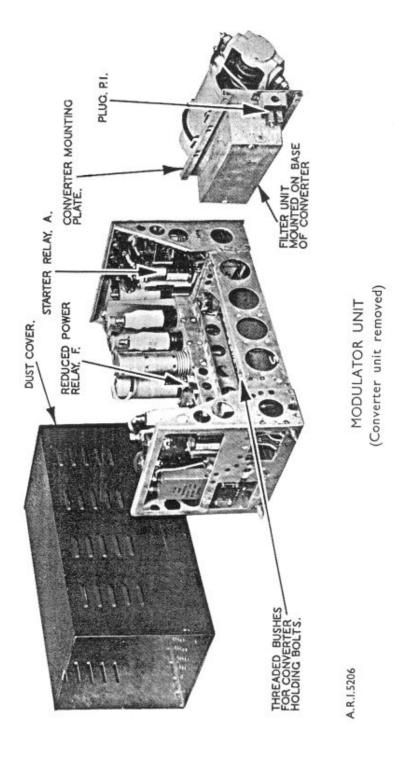
Valve sockets V.7 and V.8 combine to form a single assembly located at the rear of the chassis and secured thereto by four bolts.

Relays are directly fastened to the chassis with two bolts per relay, which are accessible from the underside of the chassis.

Transformers T.I and T.3 and choke L.6 are secured to the chassis by means of shakeproof nuts in positions which permit of reasonable access.

Tubular condensers C.27 and C.49 are inverted and protrude through the lower chassis deck. The bases of these condensers are secured to the upper deck with a large hexagon nut.

PLATE XXXIV



- (I) LIST OF COMPONENTS
- (2) MISCELLANEOUS INFORMATION

INDEX TO LIST OF COMPONENTS

COMPONENTS FOR 26 AND 13-VOLT EQUIPMENTS

1.	HIGH FR		NCY	TRAI	NSMIT	TTER.	TYP	ES 53	3
	Condensers								PAGI
	Inductances			***		***			111
	Lamp								111
	Plugs					933	***	***	111
	Relays								111
	Resistances								112
	Socket								112
	Switches			••••		2.55	***	***	113
	Valves and \								113
	raires and			***	3770				
2.	HIGH FRE	QUE	NCY	RECE	IVER.	TYPE	S 78	and 7	78A
	Condensers							2.55	113
	Crystal		***		***				115
	Inductances								115
	Lamps		200	***	***			***	116
	Plugs								116
	Relay		***	***	***		***		116
	Resistances								117
	Remote Tun	ing Co	ntrol	***	***	***			118
	Switches								118
	Tuning Coil	Unit	***				***		118
	Valves and V	alve So	ckets						118
3.	MEDIUM I		UENC	Y TR	ANSI	1ITTE	R. T	/PES	
	Condensers	***			***				119
	Inductances			222			***	***	119
	Lamp		***						120
	Plug			***				***	120
	Resistances	***	***						120
	Sockets	***	***		***	***	555		121
	Switches		***				***		121
	Valves and Va	alve So	ckets						121

4.		FREQ	UENC	CY R	ECEIV	ER.	TYPES	76	
	and 76A								PAGE
	Condensers			***			***	***	122
	Inductances		***	***		***	***	***	123
	Lamp	***	***	***	***				124
	Lightning Ar	rester					***	• • •	124
	Plugs		***		***		***	***	124
	Relay								124
	Remote Tuni	ng Co	ntrol		***		***	• • •	124
	Resistances		***	***	***	***		•••	125
	Socket		***						126
	Switch							200	126
	Valves and Va	alve So	ckets			***			126
	Valve Mount	ing Un	its		• • •			***	126
5.	MODULAT	OR	UNIT.	TY	PES 76	and	76A		
	Condensers						***		127
	Fuses	***							129
	Inductances				***	***	***		130
	Machine (Ro	tary C	onverte	er)					130
	Plugs						695		130
	Rectifier			***					131
	Relays								131
	Resistances				***		***		131
	Sockets	***			***				133
	Transformers	s							134
	Valves and V	alve Sc	ockets		***				134
	Valve Units	***	• • •			200			134
6.	CHASSIS A	SSEM	1BLY.	TYF	PES 18,	, 18A	, 20A an	d 2	l
	Condenser								135
	Inductances								135
	Plugs					200			12/
	Relays		***	***					124
	Resistances	***	***	•••					127
	Sockets			***		•••			127
	SOCKETS		•••				***		107

7.	CONTROL 271 and	. UN	IIT (C	BSER	VER'S	S). T	YPES	276,	
	Condenser								PAGE
		111	***	***	***	***		1.17	137
	Lamps	***	***	***					137
	Plugs	***	555	***		1000	***	***	138
	Relay	***							138
	Resistances		***	***				***	138
	Switches	***							139
8.	CONTROL and 260A	. UN	IT (A	IR GU	INNE	R'S).	TYPE	S 260	1
	Condenser		150	***			***		139
	Lamps								139
	Plugs			***					140
	Relay								140
	Resistances		***	300		***	***		140
	Switches		***						141
9.	AERIAL TU	אואנ	G UN	NIT.	TYPES	S 126 a	nd 126	Α	
	Condensers							***	141
	Inductances								141
	Lamps	***	0.0000			***			142
	Meter								142
	Plugs			****		***			142
	Resistances		***						142
	Sockets							•••	143
	Switch			***	***	•••		• • • •	143
	- ittesti itt	****	***		***		•••		143
10.	TOOLS			107	10000				143

LIST OF COMPONENTS

 H.F. TRANSMITTER. A.M. Type 53. Ref. 10D/1310 (For use with 26-volt supply)
 A.M. Type 53A. Ref. 10D/1451 (For use with 13-volt supply) (Circuit diagrams Figs. 3 & 3A)

CONDENSERS

0C/3092	Capacity	Voltage	Description and/or Manufacturers' Reference
3/11		1	STC Code BI Spor 7002 24
1498	3.5-22.5 uir.F.	1	OT COOK NEW YORK 7002 26
_		350	07-700 VICTOR VICTOR
		000	5.1.C. Code RL.Spec. 7002-70A
1	350 par.	1	Consists of C.4A together with 250 µµ.F.
			4B to C.4J
		200	Silvered ceramic. Pattern X
		200	
IOC/3987 2043		200	
		200	
0C/3985 2041	112	2002	
0		350	STATE DI CARAMIC. PATTERN VV
		000	5.1.C. AL.Spec. /002-/2D
		020	5.1.C. RL.Spec. /002-/2C
		350	S.T.C. RL.Spec, 7002-72B
UC/14683 4916	5 25 par.	350	S.T.C. RL.Spec. 7002-72A
		1	Consists of C.5A and C.5B in parallel
_	_	200	Silvered ceramic. Pattern X
		200	Silvered ceramin Dattorn V
100/14684		0 0	STORY CONTRACTOR
		320	S.T.C. Code RL. Spec. 7002-71A
	-	200	Silvered ceramic, flat
9		350	S.T.C. Code RI Spec 7002-708
IOC/4236 2181		350	Silvered mica flat Size 4
		750	Silvered mics Pattern B T Cian o
0C/11698 552	-	350	

CONDENSERS—continued

	Size 5												950	950	b b									
Description and/or Manufacturers' Reference	Moulded silvered mica. Pattern BW.	S.T.C. Code RL. Spec. 7002-26	Cup type ceramic	Moulded mica. Pattern BT. Size 8	Pattern BT	_	Pattern BT.	ic	S.T.C. RL. Spec. 7002-76A	S.T.C. RL. Spec. 7002-26	S.T.C. Code RL. Spec. 7002-26	Consisting of C.23A and C.23B in parallel	Silvered ceramic Dubilier. Type DMY 950	Silvered ceramic Dubilier. Type DMY 950	-76B	Moulded mica. Pattern BT. Size 7	Pattern BT.	Pattern BT.	Pattern BT.	Pattern BT.	L. Spec. 7002-76		Pattern BT.	Pattern BT.
Working Voltage	350	1	200	750	350	750	750	200	320	1	ı	1	200	200	350	350	350	350	350	350	320	750	350	750
Capacity	300 µµ.F.	3.5-22.5 µµF.	50 mr.F.	.01 u.F.	.01 LF.	.001 L.F.	.001 L.F.	25 µµF.	750 JULE.	3.5-22.5 unF.	3.5-22.5 µµF.	260 µµF.	130 MLF.	130 par.F.	1,050 LUF.	.01 ILF.	.01 L.F.	.01 µF.	.01 Ju.F.	.01 iv.F.	1.050 M.F.	200 mr.F.	.OI WF.	.01 I.F.
A.M. Type	1864	1498	1487	403	188	379	379	888	7410	1498	1498	1	4920	4920	4922	88	188	188	188	188	4922	402	188	403
A.M. Reference	10C/3679	10C/3092	10C/3081	10C/10393	10C/8496	10C/10512	10C/10512	10C/954	10C/12473	10C/3092	10C/3092	1	10C/14689	10C/14689	10C/14692	10C/8496	10C/8496	10C/8496	10C/8496	10C/8496	10C/14692	10C/10392	10C/8496	10C/10393
Component	C.12	 	C.	C.IS	C.16	C.17	8	C.19	C:50	C.21	C.22	C.23	C.23A	C.238	C.24	C.25	*C.26	C.27	*C.28	C.29	C.30	C.3	C.32	C.33

* Deleted in Type 53A Transmitter.

INDUCTANCES

	Air is neighbors	A.M. Type	Description and/or Manufacturers' Reference
EEE	1	1	S.T.C. Code :-LP.120860
14.23 14.23	10C/79 10C/79 10C/14270	5.53	S.T.G. Code :—LP.115569 S.T.C. Code :—LP.115569 S.T.C. Code :—LP.115551
LAMP			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
LP.I	5L/2080	ı	12-volt I-watt M.E.S.
Component Number	2		
	A.F.I. Reference	A.M. Type	Description and/or Manufacturers' Reference
£ 344	10H/4048 10H/3930 10H/3930	563 552 552	S.T.C. Code LP.115196, 12-pin Jones Pattern Co-axial Plug to W.T.26258 Co-axial Plug to W.T.26258
RELAYS			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers* Reference
Relay J 1/3 Relay J 2′3 T.H.I	10F/2357 10F/2358 10F/532	844 845 13	S.T.C. Code:—4639AW. TFG. S.T.C. Code:—4639AX. TFG. Thermal Relay, Sunvic 2–CLG.

RESISTANCES

Number	A.M. Reference	A.M. Type	Kesistance Value	Wattage	Description and/or Manufacturers' Reference
 	10W/1717	1717	20,000	8	Painton Type 301
2	10W/I719	1719	50,000	7	Painton Type 302
3	10W/1719	1719	20 000		Painton Time 202
4	10W/8525	2041	25,00		b M A o
	200		90	∉ea	N.F., A.0
0	10vv/1/36	1/36	000'01	m	Painton Type 301
9	10W/53	261	001	-	R.M.A.8
7	10W/53	261	00	N-k	M A B
8	10W/1972	1972	25,000	7 18	Painton Type 302
6	10W/1972	1972	25,000		Painton Type 302
2	1014/15750	****	000	-1	rainton Type 302
2:	1044/13/38	4444	130	_	Painton Type 302
=	82091/M01	4734	36	~	Painton Type 301
=	1	ı	6		Painton Type 301
12	10W/16078	4734	36		Painton Type 301
12	1	1	6		Painton Type 301
13	10W/16018	4693	7	7	Painton Type 302
4	1	1	1	ı	
.15	10W/15635	4074	300	ı	Colvern 21/9 C 3
15	10W/15781	4465	150		Colore of the Co
91	10W/15311	4020	140	- ا	Deinter Time 301
16	10/4/15/202	4466	2.5	1	ramcon Type 301
0 !	1044 13/82	4400	0	m	Painton Type 301
	10W/1872	6/17	4,700	+	R.M.A.9

* Used in Type 53 Transmitter only. † Used in Type 53A Transmitter only.

SOCKET

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
1.1	10H/1129	246	S.T.C. Code: —LP.120985. P.A. Grid Jack

SWITCHES

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
5.1	10F/2482 10F/10338	1500	S.T.C. Code LP.125001 Wylex Single Pole Changeover

VALVES AND VALVE SOCKETS

		Valves	N.		Sockets	ets
Component	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
7.4.4. 7.4.4.4.	10E/587 10E/587 10E/587	VT.60A VT.60A VT.60A	S.T.C. 5B/250-A S.T.C. 5B/250-A S.T.C. 5B/250-A	10H/13136 10H/13136 10H/13136	200 200 200	Celestion " Amphenol " 5-pin American

Type 78. A.M. Ref. 10D/1307 (For 26-volt working)
Type 78A. A.M. Ref. 10D/1448 (For 13-volt working)
(Circuit diagrams Figs. 4 & 4A) 2. H.F. RECEIVER.

CONDENSERS

Description and/or Manufacturers' Reference	Two-ganged condenser S.T.C. Code RL. Spec. 7002–75 Disc Type ceramic Variable Air Trimmer. Mullard Type 7864–01 Variable Air Trimmer. Mullard Type 7864–01 Silvered mica, Flat. Size 5
	~
Working Voltage	500
Capacity	10-315 µµF. 10 µµF. 3-30 µµF. 3-30 µµF. 100 µµF.
A.M. Type	572 829 829 2215
A.M. Reference	10C/14301 10C/16 10C/743 10C/743 10C/743
Component	233233

CONDENSERS—continued

Component	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference
C.8	10C/11123	3359	.01 ILF.	1000	Tubular Paper
C.9	10C/11123	3359	.01 LF.	0001	Tubular Paper
<u>0</u>	10C/11123	3359	.01 L.F.	1000	Tubular Paper
=;	IOC/2589	1227	SuuF.	200	Bead type ceramic
C.12	10C/16	572	10 mr.F.	200	Disc type ceramic
C.I.	I0C/743	829	3-30 mr.F.	1	Variable Air Trimmer. Mullard Type 7864/01
C.14	10C/11126	3362	I.I.	1000	Tubular, paper
C.15	10C/743	829	3-30 mil.	I	Variable Air Trimmer. Mullard Type 7864/01
C.16	10C/4271	2215	100 mil.	350	Silvered mica, Flat. Size 3
C.17	10C/4970	2660	.002 ILF.	350	
C.18	10C/11123	3359	.01 LF.	1000	
C.19	10C/11123	3359	.01 ILF.	1000	Tubular, paper
C.21	10C/4271	2215	100 mil.F.	350	Silvered mica, Flat. Size 3
C.22	10C/11126	3362	.l.r.	350	Tubular, paper
C.23	10C/743	829	3-30 par.F.	ı	Variable Air Trimmer. Mullard Type 7864/01
C.24	10C/5055	2725	100 mr.F.	350	Silvered mica, Flat, Size 3
C.25	10C/10395	405	30 mr.F.	200	
C:30	10C/4184	2140	200 mr.F.	350	Silvered mica, Flat, Size 4
C.3	10C/4184	2140	200 mr.F.	350	
C.32	10C/4798	2529	150 mr.F.	350	Silvered mica, Flat. Size 4
C.33	10C/14258	4707	80 mrF.	200	
C.34	10C/5055	2725	100 mr.F.	320	Silvered mica, Flat. Size 3
C.35	IOC/2009	921	80 mr.F.	320	
C.36	10C/11206	3409	40 m.F.	320	
C.37	10C/12073	3746	20 :21.F.	350	Silvered mica. Flat. Size I
C.38	10C/14257	4706	100 m.F.	200	
C.39	10C/14258	4707	80 mr.F.	200	Erie type N.750L
٠. ج	10C/14259	4708	40 mr.	200	Erie type N.750L
O.41	10C/14260	4709	20 mr.	200	Erie type N.750L
CFJ	1407/001	2215		4 6 6	

CONDENSERS—continued

Component	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference	on and/or s' Reference
C.43	10C/743	829	3-30 µµF.	1	Variable Air Trimmer.	Mullard Type 7864.01
4.0	10C/743	829	3-30 ML.	1	Variable Air Trimmer.	Mullard Type 7864 01
C.46	10C/12073	3746	20 mil.	320		
C.47	10C/743	829	3-30 MLF.	I	Variable Air Trimmer.	Mullard Type 7864.01
C.50	10C/11123	3359	.01 L.F.	1000		
C.52	10C/743	823	3-30 ILF.	1	Variable Air Trimmer.	Mullard Type 7864/01
C.53	10C/2009	921	80 mrF.	350	Silvered mica, Flat. Size 3	ze 3
C.58	10C/36	582	2 mir.	200	Disc ceramic	
C.59	10C/36	582	2 mrF.	200	Disc ceramic	
C.61	10C/4184	2140	200 mr.F.	350	Flat	Size 4

CRYSTAL

Component	A.M. Reference	A.M. Type	Frequency	Description and/or Manufacturers' Reference
X.I	10X/100	Crystal	100 kc/s	S.T.C. Code RL.Spec. 7065-1A
INDUCTANCES	CES			
Component Number		A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
L.1 Complete Coil Unit		10C/14266	40	S.T.C. Code:—20LU.131A.
L.3 Complete Coil Unit	7,500	IOC/14207	4	S.T.C. Code: -20LU.131B.
		10C/79	23	Eddystone L.1022
L.6 L.7 Complete Coil Unit		10C/14268	1 24	S.T.C. Code :—LP.120453 S.T.C. Code :—20LU.131C.

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
L.8 Complete Coil Unit L.9	10C/14264	3359	S.T.C. Code :20LU.131D.
[12]	10C/14265 10C/14262	100	S.T.C. Code :—LP.120439
NA A			3.1.C. Code :—LP.120544
Component Number	A.M. Reference	A.M. Type	Description and for Manufacturers' Reference
LP.1 LP.2	5L/2080 5L/2080	11	12-volt I-watt M.E.S. 12-volt I-watt M.E.S.
PLUGS			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
XX	10H/4048 10H/3930	563 552	S.T.C. Code :—LP.115196, 12-pin Jones Pattern Plug Co-axial Plug to WT.26258
RELAY			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
TH.	10F/532	13	Thermal Relay Sunvic Type 2–CLG.

RESISTANCES

Number	A.M. Keterence	A.M. Iype	ohms	Wattage	Manufacturers' Reference
R.1	10W/11384	480	meg	1	0 V X Q
R.2	069/M0I	874	470	*~	
R 3	10W/11671	202	0000	14 -	Y.I.A.Y
P 0	10/4/11/204	500	000,01	44	K.M.A.9
	1000	480	l meg.	-	R.M.A.9
K.5	10W/539	802	47,000	* —(c	M A B
R.6	10W/659	857	270	N-	0 <
R 7	60191/M01	4759	0000	ipa	N.11.A.0
	20101/1101	00/1	2,000	1	Morganite Stackpole Potentiometer, L.H.N.A.R.
0 0	10/1///01				20250/20800
0:	16911/001	18/8	39,000	-40	R.M.A.8
	10W/546	808	47.000	a	o d ⊠
R.12	10W/899	2366	5 600		
R. 13	10W/15744	4436	0000		7.7.7.7
7 0	1000/15744	200	00	ı	5.1.C. Code 7007/25
	1000/13/44	4436	30	I	S.T.C. Code 7007/25
K.15	10W/546	809	47,000	-	M M A
R.16	10W/753	168	4 700	•-	0 × N 0
R.17	10W/10955	3670	42	2.5	
*R.18	10W/15770	4455	7.6		rainton Type 301
+R 18	10VV/7098	2000	2,	2	rainton Type 301
*	10/4/1735	1020	40	30	Painton Type 301
	1044/1/33	1/35	20	m	Painton Type 301
†K.19	10W/15481	4190	2	~	Painton Type 301
*R.20	10W/15572	4278	300	1	Colona Tura of Colon
+R.20	10W/16022	4694	75		Colten Type 21/2/3.3
R 21				ı	Colvern 1 ype 21/2/5.3
R 22	10/0//546	100		1	1
27.0	000000	609	47,000	-1-0	R.M.A.9
R.43	1000/000	860	270	-	R.M.A.9
R.24	10W/27	544	10,000		a w W a
R.25	10W/1592	1592	150 000	21-	200
R.30	10W/754	892	200,000	04-	
R 31	16911/001	202	000,000	44 -	K.T.A.Y
R.32	10W/1106	106	260	40 -4	Σ. Σ. Σ. Σ. Δ.
					27.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.

Component Number	Number	A.M. Reference	ice A.M. Type	Descri	ption and/or Ma	Description and/or Manufacturers' Reference
RT.I		10C/13741	136	" Desync	" Tuning Unit	"Desynn" Tuning Unit, Smith Type 167FL.
SWITCHES	HES					
Component Number	Number	A.M. Reference	ice A.M. Type	Descrip	ption and/or Ma	Description and/or Manufacturers' Reference
5.2	0	11	11	Band chan Crystal ca 7016–64	nge switch, S.T.	Band change switch, S.T.C. Code RL.Spec. 7016–63 Crystal calibrator switch, S.T.C. Code RL.Spec. 7016–64
TUNING CO	G COIL UNIT	IL UNIT (Complete with dial)	ith dial)			
A.M.	A.M. Reference		A.M. Type	Description	and/or Manufac	Description and/or Manufacturers' Reference
101	10D/2139		138	Coil Unit ar	od Scroll, S.T.C.	Coil Unit and Scroll, S.T.C. Code LP.120451
VALVE	VALVES AND VALVE SOCKETS	OCKETS				
		Valves			Sockets	8
Number	A.M. Reference	A.M. Type	Description and or Manufacturers' Reference	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
7.75	10E/105	VR.92 VR.91	E.A.50 E.F.50	10H/150 10H/3237	40 238	Belling Lee Type L.357 Belling Lee Type L.500
£. >	10E/ZA.2985	ARTH.2	E.C.H.35	10H/493	73	" Amphenol " Octal S.P.8 US.
4.4	10E/348 or	VR.67	61.5G.	10H/493	73	" Amphenol " Octal
٧.5	10E/11399	VR.53	E.F.39	10H/493	73	"Amphenol " Octal

3. M.F. TRANSMITTER. A.M. Type 51. Ref. 10D/1308 (For 26-volt working)
A.M. Type 51A. Ref. 10D/1499 (For 13-volt working)
(Circuit diagrams Figs. 5 & 5A)

CONDENSERS

Number	A.M. Kererence	A.M. Type	Capacity	Voltage	Manufacturers' Reference
Ü	10C/3606	1814	200 µu.F.	200	Silvered ceramic Pattern XT.
C.2	ı	ı	820 par.F.	1	Consisting of C.2A and C.2B in parallel
C.2A	10C/13891	4563	410 MAF.	750	Silvered mica. Flat. Size 6
C.28	10C/13891	4563	410 MAF.	750	Silvered mica, Flat, Size 6
C.3	10C/4415	2281	50 July. max.	1	Polar C.803
C.4	10C/13890	4562	200 mil.F.	200	Erie Type N.750L
C.5	10C/13893	4564	2,300 LIVE.	750	Silvered mica, Flat, Size 8
O.6	I0C/12229	3829	100 par. max.	1	S.T.C. Code RL. Spec. 7002/5/20
C.7	10C/5307	2825	.l.u.F.	009	Mullard TM, 100 60P
C.8	10C/958	890	500 mil	750	Moulded mica. Pattern BT. Size 7
6.0	10C/10393	403	OI LF.	750	Moulded mica. Pattern BT Size 8
00	10C/10512	379	.00 u.F.	750	Moulded mica, Pattern BT., Size 7
=;	10C/5307	2858	. I 14F.	009	Mullard TM, 100 60P
C.12		3232	.005 µ.F.	750	Moulded mica, Pattern BT., Size 8
C.13		2858	.I LF.	009	Mullard TM, 100 60P
C. I		3527	15 Mr.	350	Silvered mica, Flat, Size I
C.15	10C/13804	4520	20 ptuF.	200	Erie Type N.750L
INDC	INDUCTANCES				
Component Numbe	nt Number	A.M. Reference	A.M. Type	Гуре	Description and/or Manufacturers' Reference
L.I Variometer L.2 Tuning Unit L.3 Choke	ometer ng Unit ke	10D/1958 10D/1955 10C/13907 10D/1881	1 605	. 205	S.T.C. Code :—LP.120750 S.T.C. Code :—LP.120681 S.T.C. Code :—247-LU-17D.

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Component and and	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
LP.I	5/L2080	1	12-volt I-watt M.E.S.
PLUG			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
PF.	10H/4117	570	8-pin Jones Pattern, S.T.C. Code LP.115194

RESISTANCES

ponent	A.M. Reference	A.M. Type	Resistance Value ohms	Wattage	Description and/or Manufacturers' Reference
_	10W/1971	1261	15,000	7	Painton Type 302
2	10W/1614	1614	22,000	+0	R.M.A.8
۳.	10W/7908	95	I meg.		R.M.A.2
4.	10W/9233	2560	330,000	_	R.M.A.2
5	10W/1614	1614	22,000	-40	R.M.A.8
9.	10W/8525	2041	56	10	R.M.A.8
7.	10W/1854	8/110	10 meg.	ı o	R.M.A.8
80	10W/15414	4123	28	7	Painton Type 302
6.	10W/15414	4123	28	7	Painton Type 302
9.	10W/15365	4074	300	1	Colvern Type 21 9 S.3
9	10W/15781	4465	150	1	Colvern Type 21 9 S.3
=	10W/8525	2041	56	-0	R.M.A.8
*R.12	10W/15311	4020	140	ູຕ	Painton Type P.301
12	10W/15782	4466	0	8	Painton Type 301

* Used in Type 51 Transmitter only. † Used in Type 51A Transmitter only.

SOCKETS

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
1.1	10H/5752 10H/1129	602 246	Aerial Socket, S.T.C. Code :—LP.120633 P.A. Grid Jack, S.T.C. Code :—LP.100985

SWITCHES

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
S.I	10F/1902	1356	Four-pole, two-position switch, S.T.C. Code :-
5.2	10F/10338	152	Single-pole changeover, Wylex

VALVES AND VALVE SOCKETS

		Valves			Sockets	ste
Component	A.M. Reference	A.M. Type	Description and or Manufacturers' Reference	A.M. Reference	A.M. Type	Description and or Manufacturers' Reference
٧.١	10E/587	VT.60A	5B/250A	10H/493	73	Celestion " Amphenol "
٧.2	10E/587	VT.60A	5B/250A	I0H/493	73	Celestion " Amphenol "
ż	10E/6	VI.132	1	ı	1	Siemens Type 67

4. M.F. RECEIVER. Type 76. A.M. Ref. 10D/1305 (For 26-volt working)

Type 76A. A.M. Ref. 10D/1446 (For 13-volt working)

(Circuit diagrams Figs. 6 and 6A)

Component	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference	
CI.O						
35	10C/13801	4518	10-170 µµF.	1	Jackson Bros. 3-Gang pattern. S.T.C. Code	Code
4	100/743	000				
5	100/743	678	3-30 [4/1.	1		864/01
3	0000	670	3-30 ptp.	1	nmer.	864/01
) (100/4/80	7437	100 ppr.	200	Cup type ceramic	
) (100/11126	3362	1. H.F.	320	Tubul? paper	
ز«	10C/11126	3362	.1 L.F.	320	Tubi ar naner	
6	10C/11126	3362	-1. -1.	320	Tr. ular paper	
0.0		2492	100 mil	200	Cura papel	
_ ;	10C/743	829	3-30 m	3 1		
C.12		829	3 30			864/01
- 1		2266	יייים הלידו.	1 5	rimmer.	864/01
1	200	2000	. 12.	320		
;	00/11123	3339	.01 µF.	350	Tubular paper	
2:	100/11126	3362	 	350	Tubular paper	
ا و	10C/14674	4907	100 par.F.	5.7	Cup type ceramic	
2:	10C/13804	4520	20 mr.F.	220	Silvered mica Flat Size I	
 	10C/743	829	3-30 mr.F.	ı	Variable Air Trimmer Mulland Tues 7024/01	10/177
61.0	10C/13804	4520	20 mr.F.	350	-	10/100
C.20	10C/743	829	3-30 WE)	Virginal Att 7 125	
C 21				1	variable Air Irimmer. Mullard Type 786	864/01
(2)	20001701	127	-12-45 Lift.	13	S.T.C. Code RL. Spec. 7002/4/24B	
25.0	100/13808	4277	SO LILLE.	200	Erie type N.750L	
57.5		1	8-123 MLF.	ı	S.T.C. Code R1 Spec 7002/5/23	
C.24	10C/5055	2725	100 mr.	350	Silvered mics Flat Size 743	
C.25	10C/11126	3362	H,	350	Tubular paper	
C.26	10C/5055	2775	100 m	250	- dedia paper	

CONDENSERS—continued

Component	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference
C.27	10C/743	829	3-30 uu.F.	1	Mullard Type 7864.01
C.28	10C/11126	3362	.l'u.F.	320	Tubular paper
C.29	10C/11126	3362	.l i.F.	320	Tubular paper
C.30		3362	.l.r.	320	Tubular paper
C.31		3362	.1 LF.	320	Tubular paper
C.32	10C/13808	4524	15 mil.	200	Erie type N.750L
C.33	10C/13804	4520	20 mr.	200	Erie type N.750L
C.34	10C/13805	4521	10 mr.F.	200	Erie type N.750L
C.35	10C/4756	2488	10 Mar.F.	200	Disc type ceramic
C.36	10C/10395	405	30 mrF.	200	Disc type ceramic
C.37	10C/10395	405	30 mr.F.	200	Disc type ceramic
C.38	10C/5055	2725	100 mr.F.	350	Silvered mica, Flat, Size 3
C.39	10C/743	829	3-30 mr.	1	Variable Air Trimmer. Mullard Type 7864/01
C.40	10C/11135	3371	.005 u.F.	0001	
0.4	10C/958	ı	500 mr.F.	750	T.C.C. Type M

INDUCTANCES

Description and/or Manufacturers' Reference	S.T.C. Code :20-LU-131E.	S.T.C. Code :20-LU-131F.	S.T.C. Code :20-LU-131G.	S.T.C. Code :20-LU-131H.	S.T.C. Code :—LP.120148 S.T.C. Code :—LP.120148
A.M. Type	27	28	29	30	589 589
A.M. Reference	10C/13848	10C/13849	I0C/13850	10C/13851	10C/13739 10C/13739
Component Number	L.I.) Inductance Unit	L.3 Inductance Unit	L.7 Inductance Unit	L.8 J complete	

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
LP.1	5L/2080	1	12-volt I-watt M.E.S.
LIGHTNING ARRESTER	TER		
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
A.I	10E/285	Tube Rare Gas Type I	Rare gas cartridge pattern, Philips Type 4378
PLUGS			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
PD. PE.	10H/4117 10H/307	570 184	8-pin. Jones Pattern, S.T.C. Code:—LP.115194 10-pin Jones Pattern, S.T.C. Code:—LP.115195
RELAY			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
Relay K/5	10F/1868	708	S.T.C. Code :—1665 M.A.C.
REMOTE TUNING	NING CONTROL		
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
RT.I	10C/13741	136	"Desynn " Tuning Unit, Smith Type 167FL.

RESISTANCES

Component	A.M. Reference	A.M. Type	Resistance Value ohms	Wattage	Description and/or Manufacturers' Reference
R.1	10W/11384	480	I meg.	-	R.M.A.9
R.2	10W/875	941	470	# c	R.M.A.8
R.3	10W/27	544	10,000	1 c	R.M.A.8
R.4	16911/M01	525	100.000	14 -mj	9 A M
R.5	10W/300	726	33.000	+-	0 V N
R.6	10W/546	809	47.000	pa →	0 V W W
R.7	10W/15364	4073	5,000	•	Morganite Stackbole Potentiometer I H N A B
					50250/28000
R.8	10W/589	827	270,000	-10	R.M.A.8
R.9	10W/1482	1482	27,000	a — c	M A B
R.10	16911/M01	525	100,000	N-÷	R M A 9
 	10W/1718	1718	20,000	01	Painton Type 302
R.12	10W/11384	480	l meg.	. ~	R M A 9
R.13	10W/659	857	270	•	M M M
R.14	16911/M01	525	000.001	e1 —	ο Δ
R.16	10W/875	941	470	D0	0 × Σ
R.17	10W/1476	1476	330,000	eu ⊷	0 · σ · σ · σ · σ · σ · σ · σ · σ · σ ·
*R.20	8/09/ MOI	4734	36	*~	Painton P 301
R.21	10W/15310	4019	126	. ~	Painton P 301
R.22	10W/124	592	1.500	, -	S W W
R.26	10W/1476	1476	330,000	101	0.0
R 27	10W/1149	487	00000	top -	V.C. 1.7.
*8 30	10,000	4074	000,000	44	K.M.A.y
70.00	2000	1	005	I	Colvern 1 ype 21/9/5.3
0.7	18/51/401	4465	150	1	Colvern Type 21/9/S.3
. K.31	10W/15311	4020	140	m	Painton Type 301
†R.31	1	1	0	8	Painton Type 301

* Used in Type 76 Receiver only. † Used in Type 76A Receiver only.

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Component Number	Number	A.M. Reference	ce A.M. Type	Descrip	ption and/or M	Description and/or Manufacturers' Reference
1.1		10H/1314	272	Aerial So	cket. S.T.C.	Aerial Socket. S.T.C. Code:—LP.101527
SWITCH	I					
Component Number	: Number	A.M. Reference	ce A.M. Type	Descri	ption and/or N	Description and/or Manufacturers' Reference
S.I.		10F/1869	1340	Band char 7016–62	ange switch,	Band change switch, S.T.C. Code: -R.L.Spec. 7016-62
***************************************		Valves			Sockets	ts
Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference	A.M. Reference	A.M. Type	Description and or Manufacturers' Reference
V.1.	10E/105 10E/11399	VR.92 VR.53	E.A.50 E.F.39	10H/150 10H/493	73	Belling Lee Type L.357 Celestion "Amphenol"
٧.3	{ 10E/ZA.2985 or 10E/ZC.3642	ARTH.2	E.C.H.35	10H/493	73	Celestion "Amphenol" Octal SP.8 US.

		Valves	55		Sockets	ts
Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
V.7.	10E/105 10E/11399	VR.92 VR.53	E.A.50 E.F.39	10H/150 10H/493	9 E	Belling Lee Type L.357 Celestion "Amphenol
٧.3	10E/ZA.2985	ARTH.2	E.C.H.35	I0H/493	73	Celestion "Amphenol Octal SP.8 US.

VALVE MOUNTING	TING UNITS (Complete)		
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
Mounting Unit complete V.2 Mounting Unit complete V.3	10D/1879 10D/1880	5/1	LP.120241 LP.120242

5. MODULATOR UNIT. Type 76. A.M. Ref. 10D/1311 (For use with 26-volt supply) Type 76A. A.M. Ref. 10D/1344 (For use with 13-volt supply)

(Circuit diagrams Figs. 7 & 7A)

CONDENSERS

Number	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference
 	10C/743	829	3-30 m.F.		
	10C/743	829	3-30 LLLF.		Variable Air Trimmer, Mullard Type /864/01
V	10C/5055	2775		010	valiable All Illimmer, Illimard Type /864/01
8	100/10395	100	So later.	320	Silvered mica, Flat, Size 3
,	100/10333	405	30 par.	200	Disc type ceramic
		ı	130 µµF.	1	Consisting of C.4A and C.4R in parallal
<	10C/5055	2725	100 taxF.	350	Cilvered mice Elet Circ 3
æ	10C/10395	405	30	200	Silvered IIIIca, Flat, Size 3
	100/11135	1756	30 000	000	Disc type ceramic
		33/1	.005 L.F.	000	Tubular paper
	100/11123	3359	.01 µF.	0001	Tubular paper
231	10C/5/63	3150	- T.	350	Tubular page T C T. T. J.
	10C/743	289	2 30.00	2	Lubular paper, I.C.C. Type 345
	1000	707	3-30 MLF.	1	Variable Air Trimmer, Mullard Type 7864/01
) -	547/201	697	3-30 par.F.	1	Variable Air Trimmer. Mullard Type 7864/01
	1	1	130 par.F.	ı	
4	10C/5055	2725	100 mr.F.	350	Cilvered mice Elet Circ 3
8	IOC/10395	405	30 mil	000	District Hilla, Flat, Size 3
7	. 1		130	200	Disc type ceramic
Δ.	IOC.COEE	1000	130 444.	1	Consists of C.12A and C.12B in parallel
000	5000	57/7	100 par.	320	Silvered mica. Flat. Size 3
9,0	100/10395	405	30 MIF.	200	Disc type ceramic
,	10C/5763	3150	I'VE	350	Tichilar property of the party
*	10C/11126	3362		000	Lubular paper I.C.C. type 345
	100/10948	100		320	Inbular paper T.C.C. type 345
	000	474	70 par.	200	Disc type ceramic
	100/143	289	3-30 LLLF.	ı	
	10C/743	289	3-30 miF		
m	. 1		200	l	Variable Air Trimmer, Mullard Type 7864/01
3A	100/5055	3776	30 ptr.	1	Consists of C.18A and C.18B in parallel
aa	1000	67/7	100 par.	320	Silvered mica, Flat, Size 3
20	100/10373	405	30 MIL.	200	Dier tyne persmin

CONDENSERS—continued

Component	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference
61:3	1	1	130 mrF.	1	Consisting of C.19A and C.19B in parallel
C.19A	10C/5055	2725	100 min.F.	350	Silvered mica, Flat, Size 3
C.19B	10C/10395	405	30 MLF.	200	Disc type ceramic
2.20	10C/5763	3150	.I'u.F.	320	Tubular paper, T.C.C. Type 345
2.21	10C/5763	3150	.I.kF.	320	Tubular paper, T.C.C. Type 345
2.22	10C/11126	3362	.I.u.F.	320	Tubular paper, T.C.C. Type 345
2.23	10C/94	609	500 mil.F.	350	Moulded mica, Dubilier Type 635
.24	10C/11126	3362	.I.u.F.	320	Tubular paper
2.25	10C/4951	2641	100 mil.F.	200	Silvered ceramic, Pattern XT
26	10C/11142	3378	.02 u.F.	750	Tubular paper
27	10C/13962	4587	25 ILF.	20	T.C.C. Micro Pack
2.28	10C/5763	3150	I.F.	350	Tubular paper, T.C.C. Type 345
2.29	10C/5763	3150	L.F.	350	Tubular paper, T.C.C. Type 345
2.30	10C/11123	3359	.01 µF.	0001	Tubular paper
2.31	10C/5763	3150	.I MF.	350	Tubular paper, T.C.C. Type 345
2.32	10C/11124	3360	.02 µ.F.	750	Tubular paper
2.33	10C/11786	3604	.01 µF.	320	
2.34	10C/5763	3150	.I u.F.	320	Tubular paper, T.C.C. Type 345
2.35	10C/5763	3150	. I µF.	320	Tubular paper, T.C.C. Type 345
2.36	10C/5763	3150	.1 µF.	350	Tubular paper, T.C.C. Type 345
2.37	10C/4951	2641	100 paper.	200	Silvered ceramic, Pattern XT
2.38	.1	1	200 pau.F.	1	Consists of C.38A and C.38B in parallel
C.38A	10C/5055	2725	100 paper.	320	Silvered mica, Flat, Size 3
C.38B	10C/5055	2725	100 park.	350	Silvered mica, Flat, Size 3
2.39	I0C/3853	1942	40 par.F.	200	Disc type ceramic
0.40	10C/4415	2281	4.5-50 mrF.	1	Trimmer, Wingrove & Rogers, Type C.803
14.0	10C/11786	3604	.01 J.F.	350	Tubular paper, Hunt Type 53A1/23
0.42	10C/11786	3604	.01 L.F.	350	Tubular paper
C.43	10C/5763	3150	. LuF.	320	Tubular paper, T.C.C. Type 345
2.46	10C/5763	3150	.l u.F.	320	Tubular paper, T.C.C. Type 345

CONDENSERS—continued

Component	A.M. Reference	A.M. Type	Capacity	Working Voltage	Description and/or Manufacturers' Reference
C.47	10C/10510	377	400 µµF.	200	Silvered ceramic, Pattern X
C.48	10C/10510	377	400 mr.F.	200	Silvered ceramic. Pattern X
C.49	10C/13962	4587	25 u.F.	20	T.C.C. Micro pack
C.50	10C/3397	1991	80 mrF.	200	Silvered ceramic, Pattern XT
C.51	10C/4970	2660	.002 u.F.	350	Moulded silvered mica, Pattern B.W., Size 5
C.52	10C/13762	4506	.5 u.F.	009	Paper, Metal, Rectangular, T.C.C. Type 92
C.53	10C/13979	4595	.5 ILF.	1	T.M.C. Type S.Z.21152
C.54	10C/13979	4595	.5 u.F.	1	T.M.C. Type S.Z.21152
C.55		4595	.5 taF.	ı	T.M.C. Type S.Z.21152
C.56	_	4595	.5 u.F.	1	T.M.C. Type S.Z.21152
C.57	10C/11128	3364	.25 u.F.	350	Tubular paper
C.58	_	410	SourF.	200	Disc type ceramic
C.59		3604	.01 ILF.	350	Tubular paper, Hunt Type 53A.1/23
C.60	10C/11123	3359	.01 L.F.	1000	Tubular paper, Hunt Type 53A,1/23
C.61	_	3363	LIF.	200	Tubular paper, Hunt Type 53A.1/23
C.62		3363	L'E	200	Tubular paper
C.63		3363	L.F.	200	Tubular paper
C.64	10C/11127	3363	.I.kF.	200	Tubular paper
C.65		3362	J. L.F.	350	Tubular paper

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mponent Number	A.M. Reference	A.M. Type	Rating	Description and/or Manufacturers' Reference
-222£	10H/238 10H/11718 10H/11718	23 44 49 49	500 mA. 500 mA. 5 amp. 5 amp.	Belling Lee Type L.1055 Belling Lee Type L.1055 Belling Lee Type L.1055 Belling Lee Type L.1055

(Rotary Converter) ber A.M. Re DK DK	Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference	turers' Reference
(13978 612 (13978 612 (13977 611 (13977 611 (1153 76 (1153 76 (1153 76 (1153 76 (1153 76 (1153 76 (1154 76 only. † Used in Modt teference A.M. Type (13873 W.506 75) (13873 W.506 76)			32 33 31 515	99999	Complete Coil Unit Complete Coil Unit Complete Coil Unit Complete Coil Unit
13977 611 61		10C/13936 10C/13978	515	Code	
13977 611 61		10C/13978 10C/13977	7 1 9	LP.125335 LP.125334	
Notary Converter A.M. Reference A.M. Type 10K/1153 76 10K/1152 75 75 10K/1152 75 10H/13873 W.204 10H/4046 561 10H/4046 561 561 10H/4046 561		10C/13977 10C/13977	= = = = = = =	LP.125334 LP.125334 LP.125334	
* Used in Modulator Unit Type 75 * Used in Modulator Unit Type 76 only. † Used in Modulator Unit Type 75 only.	(Rotary	Converter)			
* Used in Modulator Unit Type 76 only. † Used in Modulator Unit Type 75 only. † Used	Component Number	A.M. Reference	A.M. Type	Description and/or Manufac	turers' Reference
* Used in Modulator Unit Type 76 only. † Used in Modulato		10K/1153	76	Mackie Type K.4 150, S.T.C	Code :RL. Spe
* Used in Modulator Unit Type 76 only. † Used in Modulat ber A.M. Reference A.M. Type 10H/13873 W.204 10H/4046 561 4-19		10K/1152	7.5	7001–38B. S.T.C. Code :—RL. Spec. 7001	-38GRB.
Der A.M. Reference A.M. Type 10H/13873 W.506 25 10H/397 W.204 2-1 10H/4046 561 4-1	* Use	ed in Modulator Unit Type 76		Modulator Unit Type 76A only.	
W.506 W.204 S61 S61	Component Number	A.M. Reference	A.M. Type	Description and/or Manufac	turers' Reference
		10H/13873 10H/397 10H/4046 10H/4046	W.506 W.204 561 561	25-pin " W " Plug 2-pin " W " Plug, S.T.C. Code 4-pin Jones Plug, S.T.C. Code 4-pin Jones Plug, S.T.C. Code	:58-4074A. :LP.115192 :LP.115192

INDUCTANCES

Compone	Component Number	A.M Reference	A.M. Type	Гуре	Description and/or Manufacturers' Reference
REC	RECT.1	96 Q0I	91		Westinghouse WESTECTOR Type W.6
RELAYS	rs				
Compone	Component Number	A.M. Reference	A.M. Type	Гуре	Description and/or Manufacturers' Reference
REI	A/4	10F/2165	73	2	S.T.C. No. 4172C.
REL	REL.B/4	10F/2166	733	3.	S.T.C. No. 4639 AR.
REL	.C/4	10F/2167	73	4	S.T.C. No. 4639 AS.
REL	.D/2	10F 2168	73	2	S.T.C. No. 4639 AT.
REI	.F/i	105/1601	99	2	S.T.C. No. 4631 ABA.TFG
Component	A.M. Reference	A.M. Type	Resistance Value ohms	Wattage	Description and/or Manufacturers' Reference
R.2	10W/11499	487	100,000	-44	R.M.A.9
R.3	10W/1650	1650	390	(c)	R.M.A.8
R.4	16911/M01	525	000,000	-dea	R.M.A.8
R.5	16911/M01	525	100,000	i ==(0)	R.M.A.8
R.6	10W/300	726	33,000	i C1	R.M.A.8
R.7	10W/27	544	10,000	ı 01	R.M.A.8
R.8	10W/6414	6414	330		R.M.A.8
R.9	16911/M01	525	100,000	cı	R.M.A.8
R.10	16911/M01	525	000'001	 (pa -	R.M.A.8
- X	10W/300	726	33,000	ci-	R.M.A.8
R.12	10W/27	\$ 25	000,000	-61-	χ.Α.Α. 8. ο
2.5	10W/11692	976	200,000	401 =	0.00

RESISTANCES—continued

Component	A.M. Reference	A.M. Type	Resistance Value ohms	Wattage	Description and/or Manufacturers' Reference
R.15	10W/11499	487	100,000		R.M.A.9
R.16	10W/11499	487	100,000		R.M.A.9
R.17	10W/15435	414	200,000	1	Morganite Stackpole Potentiometer L.N.H.A.R. 50450/20800
R.18	10W/1853	18/8	39,000	-	R.M.A.9
R.19	10W/648	855	220,000	-	R.M.A.9
R.20	10W/11671	505	10,000		R.M.A.9
R.21	10W/11692	526	200,000	-6:	R.M.A.8
R.23	10W/3885	2305	120,000		R.M.A.9
R.24	10W/11499	487	100,000	-	R.M.A.9
R.25	10W/11384	480	l meg.	•	R.M.A.9
R.26	10W/11384	480	I meg.		R.M.A.9
R.28	1	1	ı	1	I
R.29	10W/549	812	I.8 meg.	+	R.M.A.9
R.30	10W/15435	4144	200,000	• [Morganite Stackpole Potentiometer
B 31	10W/548		270 000	1	8 M A 9
CE 8	10W 1853	88	39,000	→ →	X X X
R 33	10W/927	963	220,000	pa →¢	ΣX
R 34	10W/927	196	220,000	H —€	R. M. A. 8
R.35	10W 537	803	0001	10 - 1	R.M.A.9
R.36	1000/1008	1008	26,000	•	R M A 9
R.37	10W/8611	2117	820	≯ (-c	R.M.A.9
R.38	10W/8611	2117	820	•	R.M.A.9
R.39	10W/9612	2857	390,000	•	R.M.A.8
R.40	10W 760	868	330,000		R.M.A.8
R.41	10W/6195	6195	330,000		R.M.A.9
R.42	10W/11384	480	I meg.	•-	R.M.A.9
R 43	10W/11384	480	meg.	•	RMA9

Description and/or Manufacturers' Reference	R.M.A.9 R.M.A.9 R.M.A.9 R.M.A.9 Painton Type 301 R.M.A.8	R.M.A.9 Painton Type 301 Painton Type 301 Rainton Type 301 R.M.A.9 R.M.A.9 R.M.A.8	у.	Description and/or Manufacturers' Reference	4-pin Jones Pattern, S.T.C. Code LP.115186 4-pin Jones Pattern, S.T.C. Code LP.115186
Wattage		Land was an analysis of the second se	t Type 76A on	ype	00
Resistance Value ohms	100,000 470,000 100,000 10,000 10,000	560 21 63 63 63 63 63 63 63 63 63 63 70,000 270,000 270,000 270,000 270,000 270,000 270,000	* Used in Modulator Unit Type 76A only.	e A.M. Type	530
A.M. Type	1562 3302 3302 1562 4164 544 989	1106 4146 4147 4147 1076 811 6909 4145 827 827 1614 1614	n.	A.M. Reference	10H/4052 10H/4052
A.M. Reference	10W/1562 10W/10349 10W/10349 10W/1562 10W/15455 10W/27	100V/1106 100V/15437 100V/15438 100V/1548 100V/6909 100V/6909 100V/589 100V/589 100V/589 100V/589 100V/589 100V/589	ETS	t Number	2
Component	R. R	R.53 R.55 R.55 R.55 R.55 R.55 R.63 R.63 R.63 R.63 R.63 R.64	SOCKETS	Component Number	1.1

Component Number	Number	A.M. Reference	ce A.M. Type	Descri	iption and/or !	Description and/or Manufacturers' Reference
17.72		10K/1558 10K/1559 10K/1560	1625 1626 1627	S.T.S S.T.S	S.T.C. Code CAH.42119/ S.T.C. Code AM.4300/2 S.T.C. Code BS.43120/1	,42119/1 300/2 120/1
VALVES AN		D VALVE SOCKETS				
		Valves			Sockets	ets
Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
-2.5	10E/11399	VR.53	E.F.39	10H/493 10H/493	555	
>>>> 54.81.817	10E/11399 10E/11402 10E/11402 10E/382	VR.56 VR.56 VR.56	E.F.36 E.F.36 K.T.33C	10H/493 10H/493 10H/493	SEESE	Celestion "Amphenol " Octal SP.8/US.
8.>>	10E/382 10E/92	VR.503 VR.91	K.T.33C. E.F.50	IOH/493 IOH/5043	73	Benjamin Electric Type 75/652
VALVE	VALVE UNITS (Complete)	plete)				
Component Number	Number	A.M. Reference	ce A.M. Type	Descri	iption and/or !	Description and/or Manufacturers' Reference
Valve Unit V.1 V.2 V.3 V.4 V.5 V.5 V.5 V.5 V.5 V.5 V.5 V.5 V.5 V.5	.;	10D 2009 10D 2010 10D 2011 10D 2013 10D 2014	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0000000 FFFFFF %%%%%%	C. Code LP. 120243 C. Code LP. 120245 C. Code LP. 120245 C. Code LP. 120246 C. Code LP. 120246 C. Code LP. 120247 C. Code LP. 120248	0243 0244 0245 00247 00248
	2: 3	200			C. CODE LI . 1 &	0537

A.M. Ref. 10D/1304 (For use with 26-volt supply) A.M. Ref. 10D/1445 (For use with 13-volt supply) A.M. Ref. 10D/1746 (For use with 13-volt supply) A.M. Ref. 10D/1748 (For use with 26-volt supply) Type 18A. Type 20A. Type 21. Type 18. 6. CHASSIS ASSEMBLY.

(Circuit diagrams Figs. 12 & 12B)

CONDENSER

int Number A.M. Reference A.M. Type Description and/or Manufacturers' Reference	C.1 10C/11126 3362 .1 mfd. 350-volt working. Tubular paper
Component Number	*C.I

* Not used in Type 21 Chassis Assembly.

INDUCTANCES

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
*L.1	-	6001	OT CLAST BUSINESS
*L.2	_	0101	5.1.C. Code LT.120148
*L.3	-	000	
*L.4	-	000	-
*L.5	-	1000	
* 1 6		6001	
* 7		6001	S.T.C. Code LP.120148
, i	_	6001	S.T.C. Code LP.120148
, L.0	_	6001	S.T.C. Code I P 120148
*L.9	_	1009	
*L.10	_	6001	
-1-	10C/13799	6001	5.1.C. Code LP.120148

* Not used in Type 21 Chassis Assembly.

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A.M. Type Description and/or Manufacturers' Reference	W.506 25-pin " W " Plug
A.M. Reference	10H/13873 10H/13873 10H/13873
Component Number	P.P.P.

RELAYS

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
* *REL.G/8		654	STC Code 4679 MA
*REL.G/8	10F/1884	722	CT Code 4679 MB
+REL,G/8		771	CT Code 4679 AB
* *REL.H/8		454	- COC
+RFI H/8		100	5.1.C. Code 46/3 FIA.
-		77,	5.1.C. Code 46/9 MB,
*KEL.1/8		655	S.T.C. Code 4668 MC.
†REL.1/8		723	S.T.C. Code 4668 MD.

* Used in Types 18A and 20A. † Used

† Used in Types 18 and 20. * * Used in Type 21.

RESISTANCES

Description and/or Manufacturers' Reference	R.M.A.8 R.M.A.9
Wattage	ल ्ग नाग नास
Resistance Value ohms	270,000 270,000 390,000
A.M. Type	827 827 7081
A.M. Reference	10W/589 10W/589 10W/7081
Component	*R.2 R.4 R.4

* Not used in Type 21 Chassis Assembly.

Description and/or Manufacturers' Reference

12-volt I-watt M.E.S. Lamp 12-volt I-watt M.E.S. Lamp 12-volt P.O. No. 2 Lamp

SOCKETS

M. Reference A.M. Type Description and/or Manufacturers' Reference	10H/3898 517 8-pin Jones Type, S.T.C. Code 50–4076C. 10H/3987 516 10-pin Jones Type, S.T.C. Code 50–4076C. 10H/3898 517 8-pin Jones Type, S.T.C. Code 50–4076C. 10H/4010 526 12-pin Jones Type, S.T.C. Code 50–4076C. 10H/4010
omponent Number A.M. Refe	*JD. 10H/38 *JE. 10H/39 *JF. 10H/40 JJ. 10H/40

* Not used in Type 21 Chassis Assembly.

Type 276. 7. CONTROL UNITS.

A.M. Ref. 10L/121 (For use with TR.1366) A.M. Ref. 10L/116 (For use without TR.1366, 26-volt working) Type 271. Type 271A.

A.M. Ref. 10L 117 (For use without TR.1366, 13-volt working)

(Circuit diagrams Figs. 9, 9A & 10)

CONDENSER

Used in Type 276 Unit only.

Description and or Manufacturers' Reference	Cup type ceramic
Working Voltage	200
Capacity	6 µµF.
A.M. Type	759
A.M. Reference	10C/545
Component	Ü

LAMPS

Component Number

A.M. Type 11 A.M. Reference

5L/2080 5L/2080 5L/1141

LP.1 LP.2 LP.3

* Used in Type 286 Unit only.

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A.M. Reference A.M. 10H/13873 W. 10H/392 W. 10H/393 W.	Type Description and or Manufacturers' Reference	506 25-pin " W " Plug 6-pin " W " Plug, S.T.C. Code 58–4074B. 200 6-pin " W " Plug, S.T.C. Code 58–4074H
74L	A.M. Reference A.M. T	10H/13873 W.506 10H/392 W.199 10H/393 W.200

* Used in Type 276 Unit only.

RELAY

omponent Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
REL.E/4	10F/1780	653	S.T.C. Code 4634 ABE, TFG.

RESISTANCES

Component	A.M. Reference	A.M. Type	Resistance Value ohms	Wattage	Description and/or Manufacturers' Reference
* # # R.1 R.2 R.3 R.3 F.5 F.5 F.5 F.5	10W 5482 10W 5365 10W 5535 10W 5536 10W 735 10W 735	4191 4074 4244 4245 4245 1735 4190	20,000 88 68 20 20 20 5	mm	Colvern Type 21/9/S.3 Colvern Type 21/9/S.3 Colvern Type 21/9/S.3 Morganite Stackpole L.H.N.A.R. 20350 3200 Desynn Transmitter 168 FL.S.T.C. Code 7007 26 Desynn Transmitter 168 FL.S.T.C. Code 7007 26 Painton Type 301 Painton Type 301

* Used in Types 276 and 271 Units only. † Us

SWITCHES

Component Number	A.M. Reference	A.M. Type	Description and or Manufacturers' Reference
1.8	10F/2172	1369	S.T.C. Code RL. Spec. 7016-65
*5.2	10F 899	652	S.T.C. Code 4152A Key
S.S.	10F 10338	152	Wylex
4.5	10F/10338	152	Wylex
5.5	10F/10338	152	Wylex
5,6	10F/10338	152	Wylex
5.7	10F 1786	1290	Wylex
8.5	10F 1786	1290	Wylex

* Used in Type 276 Unit only.

8. CONTROL UNIT.

Type 260. A.M. Ref. 10L/107 (For use with 26-volt supply) Type 260A. A.M. Ref. 10L/114 (For use with 13-volt supply)

CONDENSER

Description and/or Manufacturers' Reference	Cup type ceramic
Working Voltage	200
Capacity	6 дд. Е.
A.M. Type	759
A.M. Reference	10C/545
Component	ij

LAMPS

Component Number	A.M. Reference	A.M. Type	Description and or Manufacturers' Reference
LP.I	5L/2080A	1	12-volt I-watt M.E.S. Lamp
LP.2	5L/2080A	1	12-volt I-watt M.E.S. Lamp
LP.3	5L/1141	1	12-volt P.O. No. 2

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r Manufacturers' Reference	5-pin " W " Plug 6-pin " W " Plug, S.T.C. Code 58–4074B. 6-pin " W " Plug, S.T.C. Code 58–4074H.
Description and/o	25-pin " W " Plug 6-pin " W " Plug, S 6-pin " W " Plug, S
A.M. Type	W.506 W.199 W.200
A.M. Reference	10H/13873 10H/392 10H/393
Component Number	A.F.R.

RELAY

RESISTANCES

Description and/or Manufacturers' Reference	Colvern Type 21/9/5.3 Colvern Type 21/9/5.3 Morganite Stackpole Potential Type L.H.N.A.R.	20350/3200 Desynn Transmitter. Smith 168 FL. Desynn Transmitter. Smith 168 FL. Painton Type 301 Painton Type 301
Wattage	111	m m
Resistance Value ohms	75 300 20,000	68 20 5
A.M. Type	4191 4074 4244	4245 4245 1735 4190
A.M. Reference	10W/15482 10W/15365 10W/15535	10W 15536 10W 15536 10W 1735 10W 15481
Component	*R.1 R.2	* R.R. * R.R. 5 4 5 5

* Used in Type 260 Control Unit only. † Used in Type 260A Control Unit only.

SWITCHES

Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
	10F/2172 10F/2197 10F/10338 10F/10338 10F/10338 10F/1786 10F/1786	1369 1387 152 152 152 1290 1290	S.T.C. Code RL. Spec. 7016–65. S.T.C. Code 4152E Wylex A1300

A.M. Ref. 10D/1673 (For use with 26-volt supply) A.M. Ref. 10D/1745 (For use with 13-volt supply) 9. AERIAL TUNING UNIT. Type 126. Type 1264.

(Circuit diagrams Figs. 14 & 14A)

CONDENSERS

Description and/or anufacturers' Reference	5. 7002–26		
Descri	S.T.C. Code RL. Spec. 7002-26 Dubilier type DMY.950		
Working Voltage	2500		
Capacity	3.5–22.5 µµF. 80 µµF.		
A.M. Type	4519		
A.M. Reference	10C/13803		
Component	CC		

INDUCTANCES

per	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
	10D/1830 10C/13717	188	S.T.C. Code No. LP. 125101 S.T.C. Code No. LP.125240

Componer	Component Number	A.M. Reference		A.M. Type	Description and/or Manufacturers' Reference
55	LP.1 LP.2	5L/2080 5L/2080	11		12-volt I-watt M.E.S. Lamp 12-volt I-watt M.E.S. Lamp
METER	æ				
Component Numb	nt Number	A.M. Reference		A.M. Type	Description and/or Manufacturers' Reference
Π.	-	10A/13382		D	Thermo Ammeter 0-3 amps.
Component Num	nt Number	A.M. Reference	_	A.M. Type	Description and/or Manufacturers' Reference
P.1 P.2	2.	10H/3930 5X/750	5	552 M	Co-axial Plug to WT.26258 Two-pole Flug, 4-amp.
RESIS.	RESISTANCES				
Component	A.M. Reference	A.M. Type	Resistance Value ohms	Wattage	Description and/or Manufacturers' Reference

* Used in Type 126 Tuning Unit only. † Used in Type 126A Tuning Unit only.

Painton Type 301
Painton Type 301
Painton Type 301
Colvern Type 21/9 S3
Colvern Type 21/9 S3

mmm | |

1,500 20 300 75

7176 4190 1735 4074 4191

10W/7176 10W/15481 10W/1735 10W/15365 10W/15482

#3####

LAMPS

J.1 J.2 SWITCH	A.M. Keterence	A.M. Type	Description and/or Manufacturers' Reference
CWITCH	10H/5752 10H/1130	602 247	S.T.C. Code LP.120633 Aerial Socket S.T.C. Code 50–4081C Earth Socket
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
8.1	10F/1857	1331	S.T.C. Code LP.125034
TOOLS			
Component Number	A.M. Reference	A.M. Type	Description and/or Manufacturers' Reference
Complete Tool Kit	10D/1496	1	Wooden case fitted with tools and test masses for
(including the following)			maintenance of A.R.I.5206 and TR.1366.
Ceramic Trimmer Adjuster	10A/13074	12	S.T.C. Code 221–LU.7A. S.T.C. Code 73–4215AB
Air Trimmer Adjuster	10A/13075	<u>e</u>	S.T.C. Code 73-4215AC.
Connector	104 13076	4	S.T.C. Code 73-4215AD.
Connector	10H/5248	2182	S.T.C. Code 33-4265C.
Connector	IOH/5722	2308	S.T.C. Code 33-4265A.
Extractor-Crystal	10A/17061	91	5.1.C. Code / 3-4329A.
Extractor Valve (for VR91)	IOA/13077	2 00	S.T.C. Code LP.1149/1
Test Meter	105.54	- :	
Handbook Instruction	103/043	0	1
	ı	I	Instruction Manual for A.R.I.5206.
Handbook Technical	ı	I	S.I.C. Code IM.101 Technical Manual for A.R.I.5206. S.T.C. Code TM.101

SOCKETS

MISCELLANEOUS INFORMATION

FUSING CURRENTS PER GIVEN SIZE OF FUSE WIRE

Size of Wire		1	Fusing Curren	t in Ampere	25.
s.W.G.	Diameter.	Copper.	Lead.	Tin.	Lead-Tin 2/
40	0.0048	3.4	0.5	0.6	0.4
36	0.0076	6.8	0.9	1.1	0.9
32	0.0108	11.5	1.5	1.8	1.5
30	0.0124	14.0	2.0	2.3	1.8
28	0.0148	18.1	2.5	3.0	2.4
26	0.018	25	3.3	4.0	3.2
24	0.022	33	4.5	5.4	4.3
22	0.028	48	6.5	7.7	6.2
20	0.036	70	9.5	11	9
19	0.040	81	11	13	10
18	0.048	107	14.5	17	14
17	0.056	132	18	21	17
16	0.064	166	22	26	21

The above currents apply to fuses of sufficient length for the cooling effect of the terminals to be neglected. For short fuses the values of the fusing currents will be higher.

RESISTANCE COLOUR CODE

The Standard Colour Code for indicating the value of resistance is set out below :—

Figure	Colour	Figure	Colour	Figure	Colour
0	Black	3	Orange	6	Blue
1	Brown	4	Yellow	7	Violet
2	Red	5	Green	8	Grey
				9	White

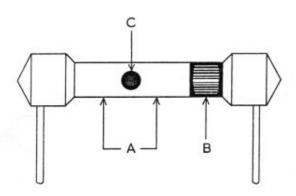
Resistances under this code carry three colours placed in three positions as indicated in the diagram, and denoted by the letters A, B and C.

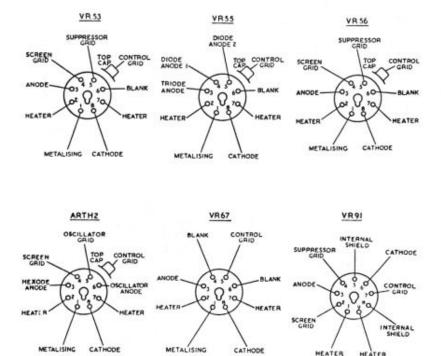
Colour A gives the first significant figure of the resistance value, colour B the second significant figure, and colour C, which is a dot, indicates the number of "noughts" which follow B.

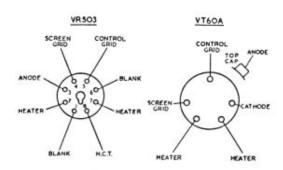
If the dot is omitted it is the same colour as A, the same arrangement applies when B appears to be missing. Where only one colour appears, A, B and C are the same colour and therefore have the same figure value.

The colours must always be read in their proper order, viz., Body, Tip, Dot. Examples are as follows:—

Α	В	C	ohms
(Body)	(Tip)	(Dot)	
Blue	Black	Black	60
Blue	Black	Brown	600
Violet	Blue	Red	7,600
Red	Blue	Orange	26,000
Brown	Brown	Yellow	110,000
Blue	Blue	Blue	66 megohms







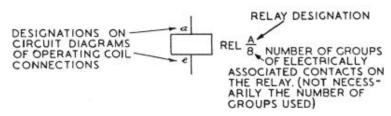
VALVE BASE CONNECTIONS

VIEWED FROM UNDERSIDE

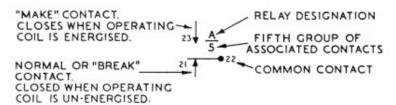
EXPLANATION OF SYSTEM OF RELAY SYMBOLS

USED IN THE FOLLOWING CIRCUIT DIAGRAMS.

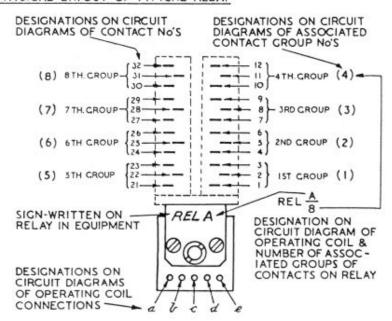
I, RELAY OPERATING COIL DESIGNATIONS



2. RELAY CONTACT DESIGNATIONS



3. PHYSICAL LAYOUT OF TYPICAL RELAY



END VIEW OF RELAY SHOWING CONNECTION TAGS