



The New Cossor Melody Maker



With the new Cossor
"Melody Maker" you
are not tied to one
Station. You choose your
programme to suit your
mood—Opera from Berlin,
dance music from Paris,
vaudeville from Glasgow—
just a turn of the dials and
one Station fades out whilst
another one comes in.
Never a dull moment with
a Cossor "Melody Maker."

THE new Cossor "Melody Maker "cannot be compared with any other Receiver. It stands alone—a fine testimony to a vast amount of research and experiment. Even though you are willing to pay five—ten—fifteen pounds more for a Receiving Set you'll not get better Radio. The new Cossor "Melody Maker" will bring you the pick of Europe's broadcasting—from Moscow in the east to Belfast in the west. From Aberdeen to Seville. Practically every Station worth hearing.

Never before have such amazing results been possible with only three valves—they are only possible to-day through the wonderful efficiency of the new Cossor Screened Grid Valve. For quality of reproduction—majestic volume—natural tone—case of operation—economy of maintenance, the new Cossor "Melody Maker" is without equal. Build it according to the simple instructions given here and you'll be proud of it. In appearance and performance it will be indistinguishable from any Receiver costing three times its price.



Knife-edge Selectivity

CONDITIONS are changing. The old-time Set is useless to-day. You need a Receiver which tunes sharply and brings in only the Station you need. The new Cossor "Melody Maker" has "knife-edge" selectivity. It cuts right through the local station and brings in programmes from Stations bundreds of miles away as if by magic.

Anyone can build it in 90 minutes

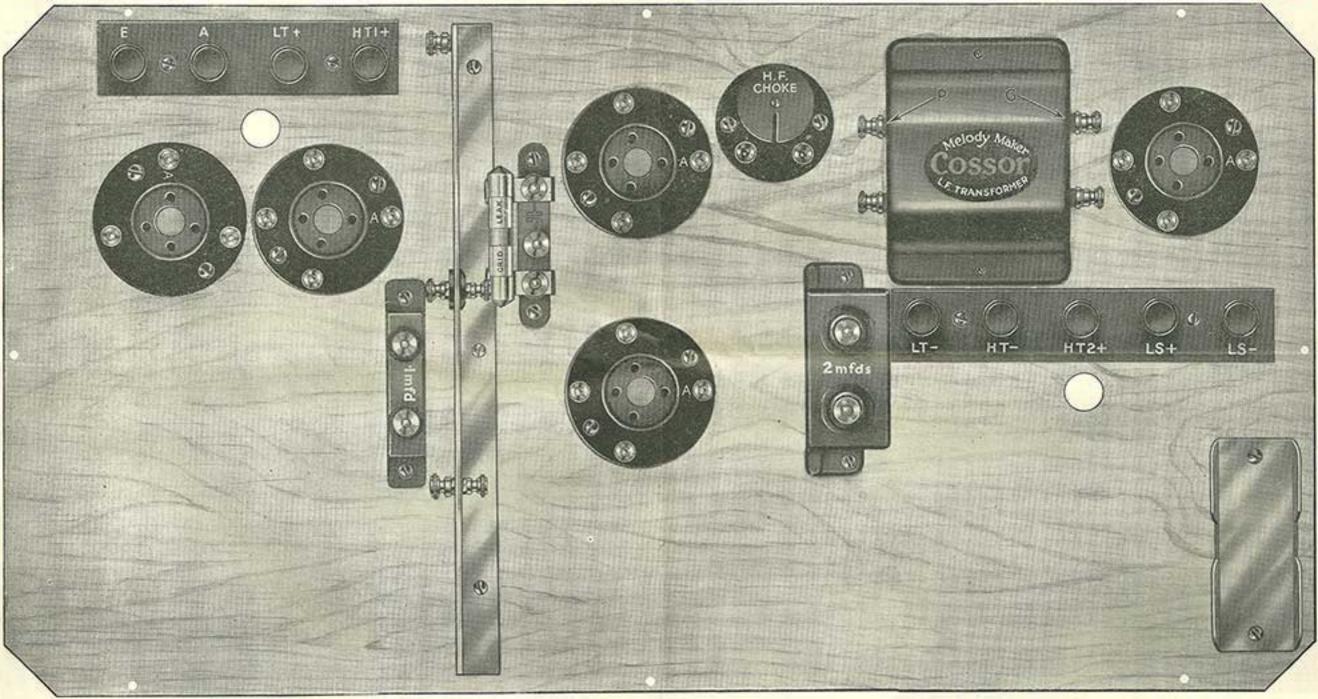


First Stage:

Mounting the Components on the Baseboard—

Time required 20 minutes





THE first stage in the assembly of the new Cossor "Melody Maker" is the mounting of the various components on the baseboard. The illustration given above is full size and shows exactly where each part is to be mounted. Special

care should be taken to see that the five valve holders (two of them are used to carry the special Cossor Plug-in Coils) are mounted exactly in accordance with the photograph above. Four of them are mounted with the anode socket (marked A) towards the right, whilst the other has the anode socket towards the back of the baseboard. Notice also that the Cossor "Melody Maker" Transformer must be mounted so that the terminal marked G is facing the last valve holder.

COMPONENTS 5 Cossor Valve Holders.

1 Cossor L.F. Transformer.

1 Cossor H.F. Choks. 1 Metal Screen Assembly.

2 Terminal Blocks.

1 T.C.C. Condenser 2 mfds.

1 T.C.C. Condenser .1 mfd. 1 T.C.C. S.P. Condenser. .0001 mfd. (with Dubilier

Orid Look 3 mage).

1 Grid Bias Battery Clip.

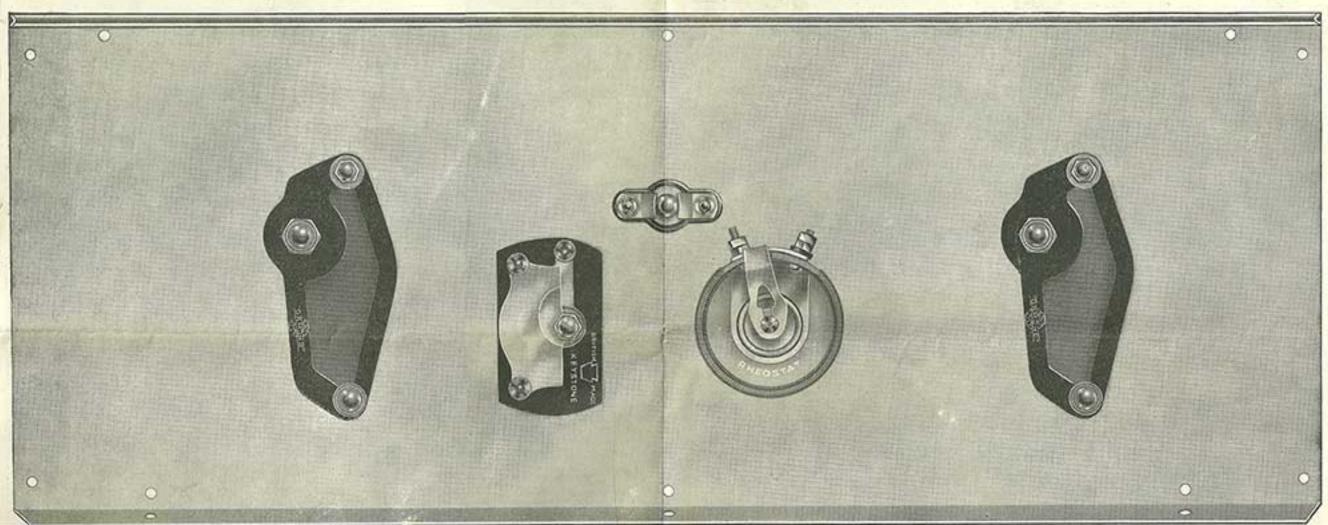


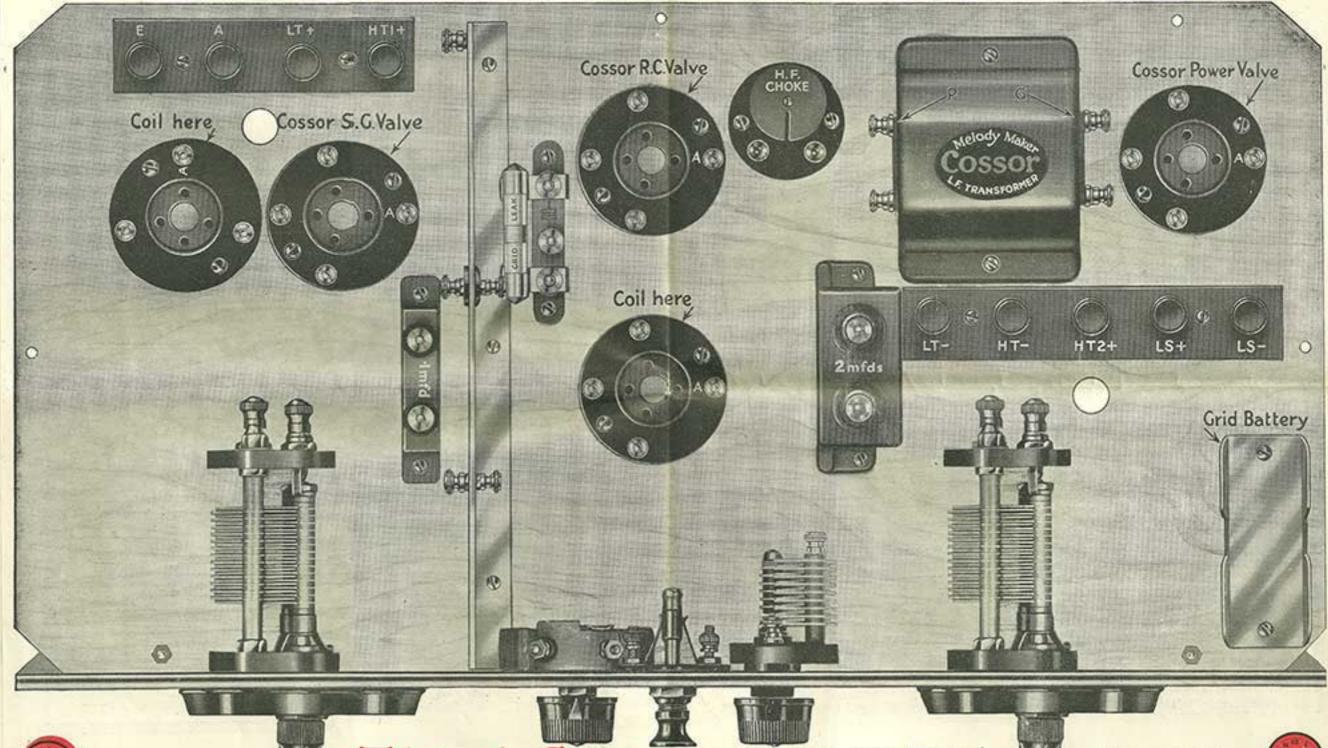
Second Stage:

Mounting the Components on the Front Panel——

Time required 10 minutes

















Time required minutes

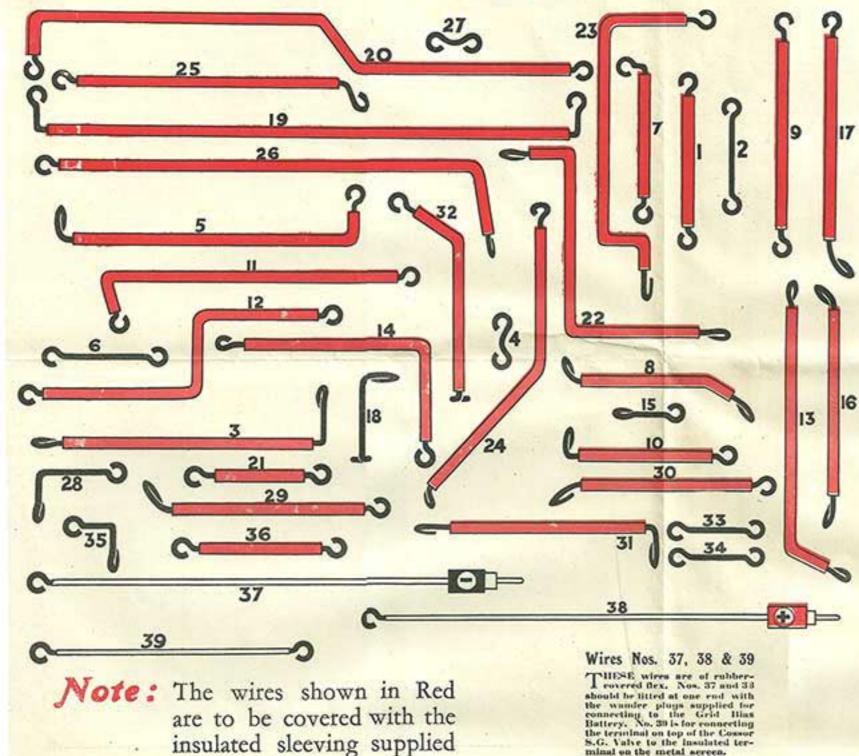




Cutting and bending Fourth Stage: the connecting wires

Time required 30 minutes





WING to the fact that all the short wires are uncovered, cutting and bending is a very simple and speedy operation. In order to avoid the possibility of error it is advisable to cut and bend each wire to shape separately and to lay them, one by one, upon this full size diagram. If you do not possess a pair of round-nosed pliers, it is a simple matter to make neat loops with the aid of a large nail. Hold the end of the wire in contact with the nail and wind it once round its circumference. Withdraw the nail and a neat circular loop should result.

Most of the wires are to be covered with insulated sleeving. Cut the siceving with a pair of seissors or a sharp knife to the correct length, and, after having made one loop on the wire, thread on the sleeving. After all the wires have been earefully bent to exact shapes shown, the wiring up of the Receiver should be undertaken. Be sure to see that each terminal is securely fastened-to obtain a good electrical contact, a pair of pliers should be used.

How to make loops

THE little sketch I shown here Indicates how easily a loop can be made with a pair of roundnosed pliers.



Point-to-point Wiring

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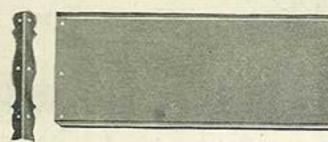
(I, Mark off each one with a tick after completion



Sixth Stage: Time required minutes







Assembling the Cabinet

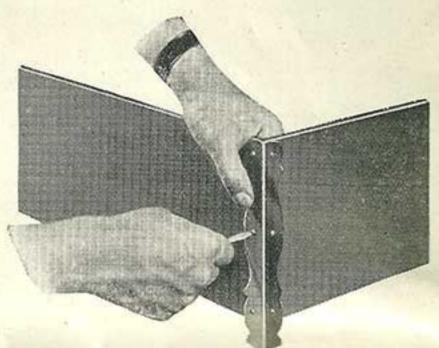
Left: Showing the method of joining side to back.

THE new Cossor "Melody Maker" case is made from sheet steel. It is in four pieces, clamped rigidly at each corner by means of ornamental angle brackets.

To complete the assembly of the cabinet, proceed as shown here. Attach the two sides to the back by means of the angle brackets. The heads of the bolts should be on the outside of the case. Then attach the two angle brackets to the front panel and bolt in position. Next, slide the case from the back towards the panel with the baseboard resting on the upturned flange.

Finally, bolt the sides to the angle brackets on either end of the front panel. In order to do this conveniently, it will be advisable to remove temporarily the grid bias battery and the clip holding it in position.

When the case is complete, the baseboard should be bolted down on the three remaining sides. Insert the bolts from below.



Bolting the angle bracket in position.



Metal looks better—wears better—does not warp
—that's why we use a metal cabinet for
the new Cossor Melody Maker

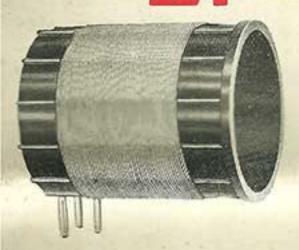
Finally—

1 Connect to Aerial and Earth Attach battery connections Connect to Loud Speaker

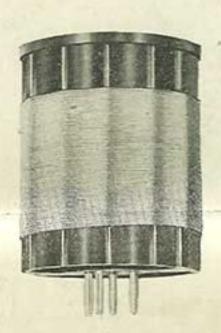
THE various leads are brought into the Receiver through the two holes in the baseboard. The Aerial and Earth should be attached to the terminals marked A and E respectively. If, however, you prefer to use the frame aerial described on page 24 of the 32-page new "Melody Maker" Booklet, these two terminals will not be used. The frame aerial should be connected to the first coil socket as illustrated in the Booklet.

The five terminals to which the leads to the Accumulator and the H.T. Battery are connected are marked L.T.+, L.T.-, H.T.-, H.T.1.+ and H.T.2.+. For the moment, however, seave the opposite ends of these leads disconnected. (See No. 4 below). The two remaining terminals are to be connected to your Loud Speaker.

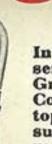
2 Insert Coils



THE new Cossor "Melody Maker" uses interchangeable plug-in coils. For all wavelengths between 225 and 600 metres use the pair wound with blue-covered wire. Those wound with orange-covered wire are for all wavelengths between 900 and 2,000 metres. The coil shown on the left is to be used in the first socket (nearest the Aerial terminal) and is the aerial coil. Notice when inserting this coil that it is at right angles to the panel. The coil shown on the right is to be inserted in the second coil socket on the opposite side of the metal screen to the first one.



5 Insert Valves



First Valve
In the first valve socket insert a Cossor Screened
Grid Valve (Type S.G.220).
Connect the terminal on the
top of the valve to the insulated terminal on the
metal screen by means of
Wire No. 39.



Second Valve
In the second valve
socket insert a
Cossor R.C. Valve
(identify it by its
blue band).



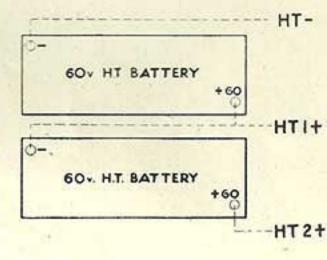
Third Valve
Into the last socket
insert a Cossor
Stentor Power Valve
(220P. green band).

4 Connect Accumulator Connect H.T. Supply



Y OU are now ready to connect up the Batteries. Connect the end of the lead going to the terminal marked L.T. + to the Red terminal of the 2-volt Accumulator. The other L.T. lead must be connected to the black terminal of the Accumulator. See that the switch on the front of the panel is pushed in—thus breaking the circuit.

If you intend using H.T. Dry Batteries, obtain two good quality 60-volt Batteries. Connect them in series as shown here. Now connect the three leads as indicated. If your house is wired for electric light you will probably prefer to use a Cossor H.T. Mains Unit, which will give ample high tension current without the necessity of using batteries. Your Wireless Dealer will tell you about it.



How to operate the "Melody Maker"



Switch on the Batteries

F you have already connected up as instructed above, you should now switch on the Set by pulling out the small central knob.



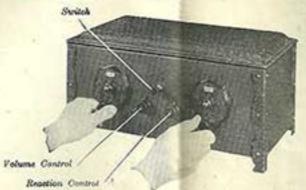
Receiving Distant Stations

SET the volume control and reaction knobs with their pointers down. Set the main control dials to the same readings. Move the left-hand dial one division and rotate the right-hand dial three or four divisions on either side of this reading. This procedure should be continued, moving the dials step by step, swinging the right-hand dial through a few degrees on either side of the reading of the left-hand dial. At each stage the dial readings should be kept approximately alike. When a station is heard, the dials should be adjusted very slightly to obtain the greatest signal strength.

THE VOLUME can then be varied by retating the volume control in the desired direction.

THE TUNING can be still further sharpened by turning the reaction knob. Care, however, should be taken with this adjustment to avoid oscillation. If this occurs, the reaction knob should be turned back until perfect purity is obtained. To tune in other stations, first turn the volume control and reaction pointers to the down position and then proceed as before.

It is recommended that the dial readings for the various stations should be logged for future reference.



Tuning in your local Station

ROTATE the colume control and reaction knobs so hat their pointers are directed downwards. Turn the two main dials, keeping the dia readings approx mately alike, until you hear your local station. In all probability, you will hear many other stations while rotating the dials but your local stations while rotating the dials, but your local station will be easily identified by looking up its wave engile in the wireless programmes in either the "Radio Times" or your local newspaper, and comparing it with the dial readings set out below for stations of approximately the same wavelength. The main dials should be adjusted until the maximum signal strength is obtained. As the tuning is very sharp only small movements on the dials are necessary to produce this result after the approximate position for the station has been located.

Dial Readings

for 23 British and Continental Broadcasting Stations

		LONG	WA	VE I	COILS				
Station. Radio Paris Daventry (5 XX) Moscoow Motala Koscigwusterhaus Warnaw HEversum		Country. France England Russia Sweden Germany Poland Holland	11111111	100000000000000000000000000000000000000	Wender 1765 m 1605 1450 1390 1250 1111 1071		Left Dist. 83 71 64 56 80 45 38	Siple Dist, 87 15 11 65 60 61 47	
SHORT WAVE COILS									
Milan Munich Brussels Davestry (5 G.L.) Langenberg Roess Paris Frankfort Hamburg Stottgart London Bournemouth Belfast Cologne Manufer Toulouse		Italy Germany Belgium England Germany Italy Pratoe Germany Germany Germany Kngland Kngland Lreland Germany Germany Germany	***************************************	STREET, STREET	547 m 537 508 492 449 446 429 386 380 381 326 306 220 246	etros"	91 88 85 81 77 74 72 64 61 61 61 64 44 40 30 20	92 90 87 79 73 71 66 60 50 63 50 29	

Special Note: At the above stations more received to Lordon belowm 0 p.m. and 31.15 p.m. on Aspect 25th 1958, on a standard sorted 100 ft. in Lordon . All none traveled at full Lord Special statements. The above that readings are approximately using for good and the section of the section o



To Control Volume and Reaction

TAVING obtained maximum volume by means of the two main dials, the volume can then be modified still further by turning the volume control knob in the desired direction. To sharpen the tuning, the reaction knob may be manipulated, but under no circumstances should this be left in a position in which oscillation occurs (as evidenced by a howl or a whistling noise in the loud speaker) as this will spoil the tone of the " Melody Maker."



Changing the Wave Band

THE new Cossor "Melody Maker" covers all broadcasting wavelengths from 225 to 2,000 metres. To change from short waves to long, and vice-versa, merely change the coils. The colls wound with blue-covered wire are for all wavelengths between 225 to 600 metres, whilst the higher wavelengths are covered by the colls wound with orange-covered wire. Be sure to use always the colls of the same colour, and switch off the Set whilst changing coils.



Everything you need packed in a sealed Carton

[Including Valves, Cabinet & Tools]

Contents:

- 2 Ormond Logarithmic Variable Condensers 0005 mfd.
- 2 Cossor Slow Motion Dials.
- 1 Keystone Reaction Condenser . 0001 mfd.
- 1 Peerless Rheostat 6 ohms.
- 1 Ormond Push-pull Switch.
- 5 Cossor Valve Holders.
- 2 Cossor "Melody Maker" Colls 225 600 metres.
- 2 Long Wave Coils extra If required.
- 1 Cossor H.F. Choke.
- 1 Terminal Block engraved and fitted with 5 terminals.
- 1 Ditto with 4 terminals.
- 1 T.C.C. Condenser Type S.P. '0001 mfd.
- 1-T.C.C. Condenser 1 mfd.
- 1 T.C.C. Condenser 2 mfds.
- 1 Dubilier Grid Leak 3 megohms.

- 1 Cossor "Melody Maker" L.F. Transformer.
- 1 9-volt Grid Bias Battery.
- 18 inches of rubber covered flex with Wander Plugs.
- 1 Coll of 22 S.W.G. tinned copper wire.
- 3 Yards of Insulated Sleeving.
- 1 Cossor S.G. Valve (2 volts).
- 1 Cossor R.C. Valve (2 volts).
- 1 Cossor Power Valve (2 volts).
- 1 Complete Screen Assembly.
- 1 5-ply Baseboard fully drilled.
- 1 Complete set of nuts, bolts, and Washers.
- Also 1 complete Cabinet assembly including: Ornamental angle brackets all drilled ready for assembly and all necessary bolts and nuts, together with spanner and screwdriver.

Cossor "Melody Maker" £7-15-0
Kit in sealed Carton - - £7-15-0

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