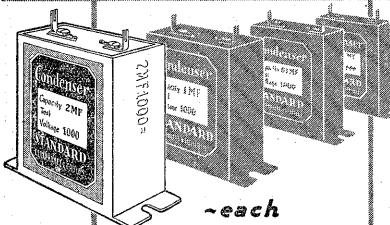
STANDARD CONDENSERS



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Day and Night Service



Questions and Answers

R.B. (Auckland).: What improvements for the Radiowhich is attached to a tree 28ft. high gram leave?

A.: Yes; use the two lowest ratio aerial passes over the roof and the leading comes from a point close to the chim-ney.

A: If the aerial is attached to a distant tree it should be fixed on a halyard tant tree it should be fixed on a halyard passing through a pulley, and one end should be weighted, so that the swaying of the tree is taken upon the halyard rather than putting a strain on the aerial, which, by the way, should not run over your roof. The lead-in should come in from a point on the tree side of the chimney, well away from the actual roof. A better plan would be to raise the wire some 10ft, from your roof and then take your lead-in from the point already indiyour lead-in from the point already indi-

2. The aerial has a joint in it, although it is soldered. Does this make any difference to its efficiency?

A.: A soldered joint makes very little difference provided it is a good one.

3. Is it satisfactory for the earth terminal to be tied round the water pipe. or should it be soldered?

A.: No. It should be clamped on, or, if possible, soldered. Merely tieing it round does not ansure greatest efficiency. round does not ensure greatest efficiency.

A.H. (Berhampore): I have a one-valve set, and am thinking of adding a one-valve amplifier. What B battery voltage should I need to get good speaker reception of the local station?

A.: 90 volts at least, although you can be markly avaption from 45 volts.

A.: 90 volts at least, although you can get passable reception from 45 volts.

2. What B voltage would I need if I added a two-valve amplifier instead?

A.: The 90 volts would do admirably.

3. Would a two-valve amplifier increase the selectivity of the set?—No.

A.: Unless you can raise the end of "B" to clear the sun-purch by more than 18 inches "A" is much to be preferred However, what is to stop your erecting a short mast on the corner of the house and thus clearing the sun-porch by a reasonable margin?

A.: Dxing on ""

Image a frequency which is just above the audible range—a type of superheterodyne.

3. What is the best type of insulators for aerials—the heavy or the light?

A.: The beavy win every time.

IGNORAMUS (Temuka): I find that on the higher wavelength.

and thus clearing the sun-porch by a reasonable margin?

A.: Dxing on my set is unbearable
owing to static. Is there any way in
which I can overcome this?

A.: If it is static you can overcome it
to a certain extent by incorporating a
tone control, which will deaden a certain
amount. However, it is nessible received. amount. However, it is possibly power noise, and if you are using an a.c. set some of this may be coming in through the mains. Take off the aerial and see if the noise persists. If it does, it can be cured; if not, there is very little you can

3. By taking out the two power valves and using phones, would conditions be better for dxing?

A.: Quite possibly they would, How-ever, if the noise is very had on the speaker you can rest assured it will be fairly bad through the phones.

W. C.T. (Te Kuiti): How is a short-

waye converter connected to an a.c. model TRF set and to a super het.?

A.: We are not conversant with the technical features of the particular cir-cuit, but presume it to be the same as any other converter. There is undoubtcuit, but presume it to be the same as any other converter. There is undoubtedly a "B plus" outlet, which must be connected, irrespective of the set to a suitable "B plus" tapping, usually on the power pack side of the output transformer. If there are filament connections they must be connected to suitable voltage source, usually one of the valves in the set. The aerial is connected with in the set. The aerial is connected with the aerial terminal on the converter and the output terminal is connected with the aerial terminal of the set. The earth is usually common to both. This connection is irrespective of whether the connection is then made to a t.r.f. or The earth This consuper het.

transformers you have by connecting resistances across them as is shown in the "Radio Guide." You may not get the

best results by doing this.

2. What would be the value of the re-

sistances? A.: Across the secondary of the input transformer about 300,000 ohms. Across the primary of the output transformer about 100,000 ohms.

3. Has there been any improvement to this set?

A.: The a.c. Radiogram is more or less out of date, though the battery set is quite in order.

MUG (Khandallah): I cannot bring in 2YA at great strength, and 2ZW is distorted. 2YA spreads all over the dial, yet the set is selective enough an distant stations, separating KFI from

You would have helped us had A. : you told us the model of your set. However, we presume it is MB30, which is one of the newer sets and if it is this we assume that the condensers of the band-pass filters are out of step. This we assume that the condensers of the band-pass filters are out of step. This would cause the symptoms of which you speak. As you suggest, it is a case for a check-up by a radiotrician. Your best plan would be to call up one of the local servicemen who would give you an approximate price for a call. Probable there is nothing radically wrong ally there is nothing radically wrong with your set.

2. What is the meaning of a "supersonic circuit"?

A.: A supersonic frequency is a fre-

quency which is just above the audible range, a supersonic circuit one employ-ing a frequency which is just above the

in-porch by a reas

I the higher wavelengths the setting of
the r.f. condenser is very critical, and if
the grid wire is removed from the condenser, only weak results are to be had. Below 280 metres, removing the connection seems to improve matters. Do these facts show any defects in the screen-grid

coils or condensers?

A.: It is questionable. With the grid condenser removed, you cannot fune in the incoming signals, and the r.f. vaive is acting as an aperiodic stage. This would explain the results being weaker, but as why they should improve on certain

(Confinued on page 22.)

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Information	COLUMN	an
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intolucation Confion
(To be used with all requests for information.)
Name of set
Model
Name
Address

Nom de plume
Date
Please Note: (1) Be specific and brief, tabu- fating, if possible.

2) Write legibly and on one side of the paper 3) We do not design circuits 3) We do not design circuits. 4) Limit three questions, unless 1/- is enclosed. rancini and property in the second state of the second second second second second second second second second