

Australian Programmes

Times Corrected for N.Z.

Thursday, April 23.

STATION 2FC.—9.30 p.m.: Shakespeare anniversary programme. 11.47 p.m.: Dance music from the Hotel Australia.

2BL.—9.30 p.m. and 11.3 p.m.: "The Mellow Fellows," vocalists. 9.37 p.m. and 10.27 p.m.: Madama Evelyn Greig and Hilda Grace, pianists. 9.51 p.m. and 11.20 p.m.: "Cash and Carrie," entertainers. 9.59 p.m. and 10.50 p.m.: Josef Kaartinen, saxophonist. 10.13 p.m. and 11.13 p.m.: Harrison White, banjoist.

3LO.—9.15 p.m.: St. George's Day programme. 10 p.m.: Dance items interspersed with vaudeville numbers.

3AR.—9.45 p.m.: Programme of studio reproductions.

Friday, April 24.

STATION 2FC.—9.30 p.m. and 10.4 p.m.: "The Savoyans." 9.37 and 10.30 p.m.: Jack Lumsdaine, the "Radio Rascal." 9.47 p.m.: Clive Amadio, saxophonist. 9.54 p.m. and 10.37 p.m.: Fred Bluett, comedian. 10.45 p.m.: Relay from 3LO, Melbourne.

2BL.—9.30 p.m.: Concert programme arranged by the Musical Association of New South Wales. 10.30 p.m.: The A.B.C. Players present "Wolfe Goes West."

3LO.—9.30 p.m.: Relay of an Anzac concert in aid of the Lord Mayor's fund and the returned soldiers' unemployment fund.

3AR.—9.50 p.m.: Community singing, transmitted from the Central Hall, Geelong.

Saturday, April 25.

STATION 2FC.—9.30 p.m.: Concert programme from the Sydney Town Hall.

2BL.—9.30 p.m.: "Old Soldiers Never Die," a "Diggers" night. Every artist appearing on the programme is a returned soldier.

3LO.—9.30 p.m.: Relay of concert programme from 2FC, Sydney.

3AR.—9.30 p.m.: "From Tent to Peninsula," a series of episodes in the military careers of three Australians. 10.45 p.m.: "The Landing from a Naval Point of View." 11 p.m.: Syd Exton and his Digger accomplices present a "Bivvy" concert.

Sunday, April 26.

STATION 3LO.—9.30 p.m.: Concert by the Victorian Professional Orchestra. 10.30 p.m.: Interlude. "Stories of the Great Hymns," with illustrations by the "Sundowners' Quartet."

3AR.—10 p.m.: Programme arranged by Professor Bernard Heinze.

Monday, April 26.

STATION 3LO.—9.30 p.m.: Old-time musical items and choruses.

3AR.—10.17 p.m. and 11.16 p.m.: Alfred Docking, in novelty piano numbers. 10.24 p.m. and 11.10 p.m.: The Master Four Quartet. 10.40 p.m. and 11.30 p.m.: "Millie and Tillie" will entertain.

Tuesday, April 28.

STATION 3LO.—9.30 p.m.: An old-time music hall. 10.15 p.m.: "The Mutiny of the Bounty." 10.45 p.m.: A.B.C. Wireless Military Band.

Wednesday, April 29.

STATION 3LO.—9.30 p.m.: Relay from 2FC, Sydney, of a night of musical comedy, featuring "The Rebel Maid."

3AR.—10 p.m. and 10.30 p.m.: J. Clarke Scott, tenor. 10.12 p.m.: Jack and Jill, "Propriety Unlimited." 10.45 p.m.: Transmission from the Auditorium of the first Melbourne performance of Bach's "Christmas Oratorio," presented by the Victorian Postal Institute Choir and the Melbourne Symphony Orchestra.

Tannhauser

(Continued from page 1.)

came for Tannhauser, he created a ghastly surprise. Instead of acclaiming the Princess, he declared himself the slave of Venus. All mortal love was feeble and cold, he cried; only such as knew the rapture of celestial embraces should dare to speak of love.

Horrified and indignant, the knights drew their swords and rushed upon the recreant, who would have been hewn to pieces had not the Princess intervened. Perhaps Tannhauser's outburst may have been but a sudden impulse of madness, for he now consented to join a band of pilgrims, and set forth to expiate his sin at Rome.

During his absence, the Court of Thuringia passed mournful months awaiting the day when the pilgrims should return. Then at last, before the Blessed Virgin's shrine, we see the Princess craving forgiveness for her beloved, while faithful, unselfish Wolfram knelt at a modest distance imploring Heaven to grant a happy meeting to the pair. Suddenly, holy melodies were heard in the distance, and the returning pilgrims flowed down the mountain-path, but, alas! Tannhauser was missing in their train.

Stricken with grief, the royal maiden determined to forsake the world and dedicate herself to the Virgin's service. And at eventide, Wolfram, singing on the mountain-side, beheld a crouching figure, the unhappy Tannhauser, who told him all the rigours of his pilgrimage:—

*When I beheld a heavy burthened pilgrim,
It seemed to me his load was all too light,*

*And if he sought a pathway o'er the meadow,
I trod, unshod, amid the rock and thorns*

*When in the hospice he sought rest and shelter,
On ice and snow it was that I sought mine.*

He also told, as in the old Germanic legend, how the Pope had declared absolution no less impossible than for his Crucifix to put forth leaves. But here the opera departs from the legend, for, when the Crucifix sprouted, the Pope's emissaries found Tannhauser here with Wolfram, just as he was about to answer the call of the Goddess and return to Venusberg.

And now, as a tragic climax, the unhappy man beheld the approach of Elizabeth's funeral, slowly descending the mountain-path amid mourning knights and weeping maidens. But their sorrow was turned into joy when they learned that Tannhauser had been absolved. The procession paused, and the erring knight sank in death beside the coffin of his spiritual bride, filled with holy raptures in his assurance of eternity with her in Paradise.

Locating Receiver Noises

(Continued from page 17.)

about 1800 kilocycles is tuned in on the receiver. Due to the valve's filament being unlighted, it will not amplify and you can adjust the neutralising capacity for that stage. A correct adjustment will be made when minimum signal is heard in the loudspeaker or when a minimum deflection is obtained on an output meter.

The balancing condensers are adjusted in the same manner. An insulated screwdriver or hexagon wrench is used in balancing these condensers depending on the type of receiver in question. If the oscillation is in the radio frequency stages, the following may be the cause:

I. Absence of a good earth on a receiver or imperfect earthing which in most cases increases the tendency to regeneration and oscillation. This applies to the main ground connection and other various parts of the circuit which are supposed to be earthed.

II. Too much gain or amplification will also cause excessive regeneration or oscillation, even though the set is neutralised. The better the shielding in a set, the more amplification we can get out of it and still have the set stable. But there is a definite limit to this amplification. Now if there are any conditions which tend to increase this amplification, feed back and oscillations will occur with resultant noise. One of the causes of this is excessive plate voltage, and in case of screen grid valves—excessive screen grid voltage.

III. One important object of shielding is to prevent coupling from one coil to another. Manufactured receivers are supposed to have satisfactory shielding. Trouble frequently arises

when the shields are not securely in place. Shields may not be properly earthed. The shielding should, therefore, be examined to make sure it makes perfect contact.

IV. Open by-pass condensers. Plate by-pass condensers are employed for the purpose of eliminating the coupling which is always present in the plate supply. If by-pass condensers of any sort become defective or short circuited, they are likely to cause noise.

By-pass condensers are connected across grid bias resistances. If these by-pass condensers are open, oscillation will result. Condensers suspected of producing noise should be thoroughly checked with a d.c. potential of from 200 to 500 volts. Connect the condenser across any d.c. potential lying between the above values and then short circuit its terminals. If not defective, a spark will be produced. This applies only to by-pass condensers having a capacity sources of noise:

A.F. Regeneration Noises.

UNDER this we will consider motor-boating as well as other possible sources of noise.

The following noises are frequently encountered in audio frequency systems:—

1. Coupling between speaker leads and detector grid circuits. If the speaker, a.c. line or plate leads are near any part of the detector grid circuit, they may cause squealing. The remedy is obvious. Keep all leads as far away from the detector grid circuit as possible.

2. An open plate circuit in the detector will cause a howling noise. Tracing back over the plate circuit will of course establish the fault.

3. Open grid circuits will cause squealing noises. Open grid circuits may be caused by open secondaries of audio transformers, open grid bias bat-

RADIO DIRECTORY

What to Buy and Where

CITIES

ACE and HAMMARLUND SETS, Johns, Ltd.
WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BURGESS RADIO BATTERIES, All Radio Dealers.

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,
Courtenay Place, Wellington.

MULLARD VALVES All Radio Dealers.

N.Z. DISTRIBUTORS PILOT
PARTS AND RECEIVERS,
INCLUDING PILOT SUPER-WASP and
GILFILLAN ELECTRIC RECEIVERS
Harrington's, N.Z., Ltd.,
40-42 Willis St., Wellington.
142 Queen St., Auckland.

RADIOLA RECEIVERS and Farmers' Trading Co., Ltd.,
Expert Radiola Service. Hobson Street, Auckland.

STEINITE RADIO G. G. Macquarrie, Ltd.,
120 Willis St., Wellington.

COUNTRY TOWNS

PHILIPS VALVES AND
APPARATUS All Good Radio Dealers.