



# RADIO CORPORATION PTY. LTD.

DIVISION OF ELECTRONIC INDUSTRIES LTD.  
126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4.

File: Receivers  
Portable  
BULLETIN: FQZ-2  
Date: 9.2.61  
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## TECHNICAL BULLETIN

### MODEL " FQZ "

## SUMMARY OF PRODUCTION CHANGES

#### TRANSISTOR TYPE 2N483

Due to supply position of type 2N484, the 2nd I.F. amplifier has been changed to type 2N483.

No circuit changes are required.

#### IMPROVED TYPE BATTERY

The four batteries type 915 have been changed to new improved batteries type 1015, part No. M551.

#### A.G.C. CONTROL TRANSISTOR CHANGED TO TYPE AT.1.

A transistor more suitable for this A.G.C. application type AT.1., having low electrode capacities is being used in place of type 2N363.

No circuit changes are required.

#### 220 pF CONDENSER CIRCUIT NO. 4

To facilitate the peaking of iron core in 1st I.F. transformer the 220 pF condenser has been changed to a 200 pF tubular ceramicon condenser tol  $\pm 5\%$  33V DCW part No. C450.

#### CIRCUIT NO. 13 - 18 pF CONDENSER

To conform with the altered electrical characteristics of the 3rd I.F. transformer circuit No.65, the 18 pF neutralizing condenser has been changed to a 22 pF disc ceramicon  $\pm 5\%$  500V DCW part No. C352.

The 18 pF condenser is to be changed to a 22 pF only if the 3rd I.F. transformer is replaced in receivers of early production.

#### CIRCUIT NUMBERS 33 AND 36

To improve the A.G.C. action circuit No.33, 1500 ohm resistor has been changed to 2200 ohm  $\pm 10\%$   $\frac{1}{2}W$  part No. R222; also circuit No.36, 2200 ohm resistor has been changed to 3900 ohm  $\pm 10\%$   $\frac{1}{2}W$  part No. R3922.

#### CIRCUIT NO. 58 - 1500 OHM RESISTOR

To improve apparent signal to noise ratio at maximum volume circuit No.58, 1500 ohm resistor has been changed to 180 ohm  $\pm 10\%$   $\frac{1}{2}W$  resistor part No. R1812.

CIRCUIT NO. 29 - 4700 OHM RESISTOR ADDED

To prevent possible audio instability at maximum volume on strong signals a 4700 ohm  $\pm 10\%$   $\frac{1}{2}$ W resistor part No. R4722 is being wired in series between circuit No.6, .01 MF condenser and terminal pin 1 of the 1st I.F. transformer.

ALTERNATIVE TRANSISTOR, AUDIO DRIVER STAGE

Type 2N406 may be used in place of type 2N363 transistor in the audio driver stage.

No circuit changes are required.

TYPE 2N410 TRANSISTORS, I.F. AMPLIFIER STAGES

Type 2N410 transistors are being used as 1st and 2nd I.F. amplifiers.

These transistors are not a direct replacement for type 2N483 or 2N484.

Receivers fitted with type 2N410 transistors incorporate the following component changes.

1st I.F. transformer part No. L533 is changed to transformer part No. L575.

2nd I.F. transformer part No. L534 is changed to transformer part No. L572.

3rd I.F. transformer part No. L535 is changed to transformer part No. L573.

Neutralizing condenser 22 pF circuit No.13, is changed to a 27 pF disc ceramicon  $\pm 5\%$  500V DCW part No. C451.

2N486

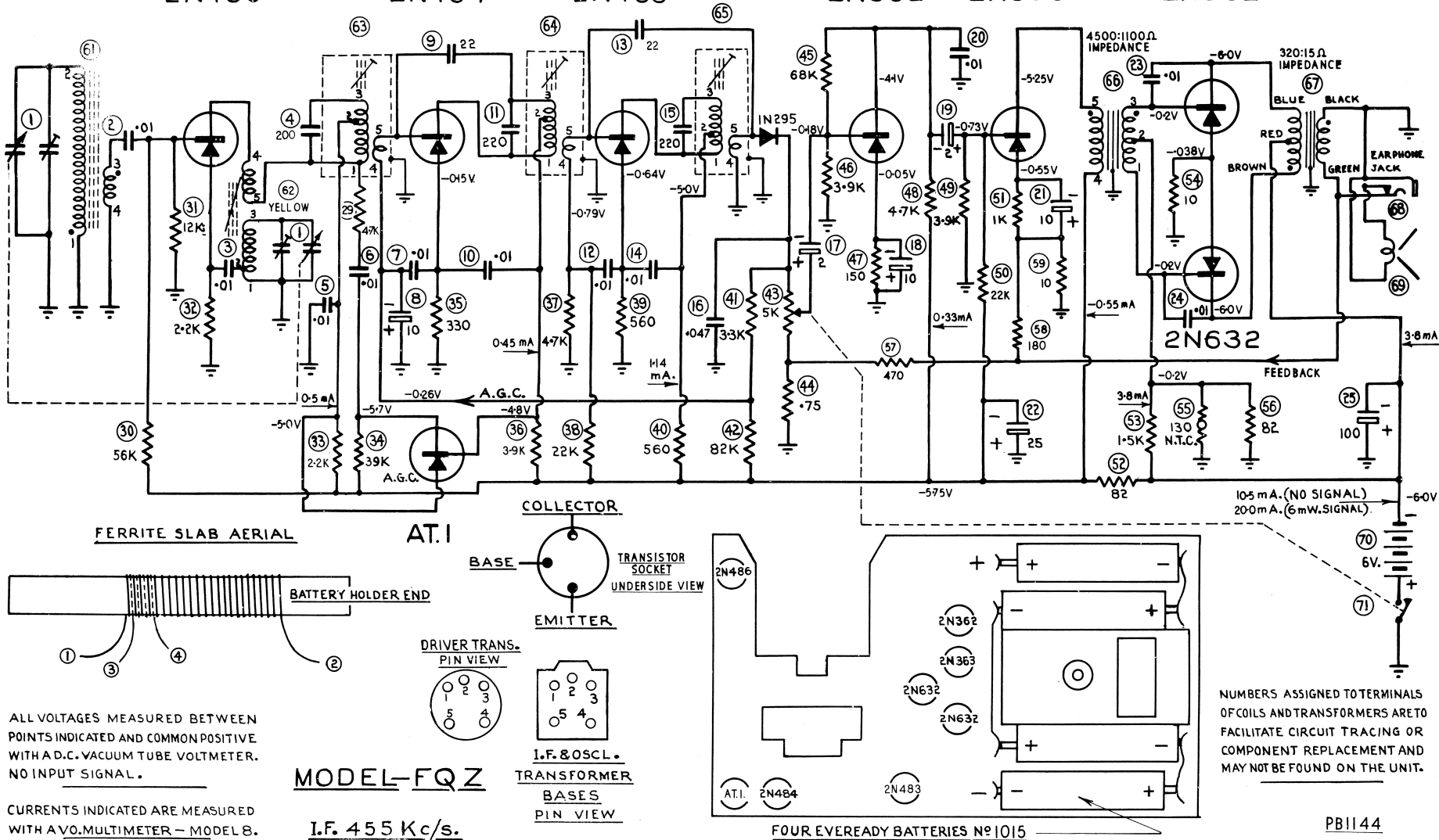
2N484

2N483

2N362

2N363

2N632



ALL VOLTAGES MEASURED BETWEEN POINTS INDICATED AND COMMON POSITIVE WITH A D.C. VACUUM TUBE VOLTMETER. NO INPUT SIGNAL.

CURRENTS INDICATED ARE MEASURED WITH A V.O. MULTIMETER - MODEL 8.