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

TECHNICAL BULLETIN

Bulletin: HPN-2
File: RECEIVERS PORTABLE
Date: 10.2.59.

MODEL "HPN" RECEIVER

VOLUME CONTROL

1. A 5000 Ohm potentiometer with an untapped element is shown in the circuit diagram in Service Bulletin HPN-1 and is detailed in the bulletin parts list as part No. R183.

2. A 5000 Ohm potentiometer part No. R213 tapped at 600 Ohms is being used in place of the 5000 Ohm untapped element potentiometer part No. R183.
A 22 Ohm resistor part No. PR733 is wired from the 600 Ohm tap on the potentiometer to the chassis.
This information is detailed on Page 12 of Service Bulletin HPN-1.

3. A different type 5000 Ohm untapped potentiometer part No. R267 will be used in place of the potentiometer R183 and R213 mentioned in paragraphs 1 and 2 above.

NEGATIVE TEMPERATURE COEFFICIENT RESISTOR

Due to a shortage of the 130 Ohm Negative Temperature Coefficient resistor, part No. R167 circuit No. 19, the components listed below will be used until the 130 Ohm Neg. Temp. Coefficient resistor is available.

Circuit No.19 ----- 130 Ohm N.T.C. resistor changed to a 350 Ohm tubular type N.T.C. resistor part No. R259.

Circuit No.20 ----- 2200 Ohm resistor changed to a 6800 Ohm 10% ½W carbon resistor part No. R6822.

Circuit No.21 ----- 82 Ohm resistor changed to a 330 Ohm 10% ½W carbon resistor part No.R3312.

The above three circuit changes must all be used in conjunction with one another.

TRANSISTOR ELECTRICAL ALTERNATIVES

1. Model "HPN" receiver is designed to use a Raytheon brand transistor complement as detailed below.
The circuit and electrical components are as "HPN" circuit diagram No. PB917 shown in Service Bulletin HPN-1

Converter	2N486	Raytheon	
1st IF.	2N484	"	
2nd IF.	2N484	"	
1st Audio	2N362	"	
Driver	2N362	"	
Output	2N632	"	) Matched pair
Output	2N632	"	)

2. Stocks of Raytheon brand transistors not being available for the initial production run, a transistor complement consisting of Philips transistors and one S.T.C. transistor will be used as detailed below. No circuit or component changes are required when using this transistor complement.
The circuit and electrical components are as "HPN" circuit diagram No. PB917 shown in Service Bulletin HPN-1

Converter	OC44	Philips	
1st IF.	OC45	"	
2nd IF.	OC45	"	
1st Audio	OC71	"	
Driver	TS2	S.T.C.	
Output	OC72	Philips	} 2-OC72 matched pair
Output	OC72	"	}

3. Early production runs have also used a transistor complement consisting of all Philips brand transistors as detailed below.
The circuit and electrical components are as HPN circuit diagram No. PB917 shown in Service Bulletin HPN-1.

Converter	OC44	Philips	
1st IF.	OC45	"	
2nd IF.	OC45	"	
1st Audio	OC71	"	
Driver	OC71	"	
Output	OC72	"	} 2-OC72 matched pair
Output	OC72	"	}

4. Raytheon brand transistors now being available a transistor complement consisting of all Raytheon and one S.T.C. transistor was used. The S.T.C. transistor being in the first audio stage. This complement is detailed below.
The circuit and electrical components are as "HPN" circuit diagram No. PB917 shown in Service Bulletin HPN-1.

Converter	2N486	Raytheon	
1st IF.	2N484	"	
2nd IF.	2N484	"	
1st Audio	TS2	S.T.C.	
Driver	2N362	Raytheon	
Output	2N632	"	) Matched pair
Output	2N632	"	)