

Tuning Range - 525 - 1610 Kc/s.

Intermediate Frequency - 455 Kc/s
 Power Output - 100 Milliwatts
 Current Consumption - 8mA approx. (no signal.)
 Supply Source - 6V. DC. - four 1.5V cells in series.

ACCESS TO INTERIOR OF CABINET

Remove two screws and prise rear section off body of cabinet.

CHASSIS SERIAL NUMBER

Remove rear of cabinet. Serial number is stamped on to plate on circuit board.

ASTOR P20R

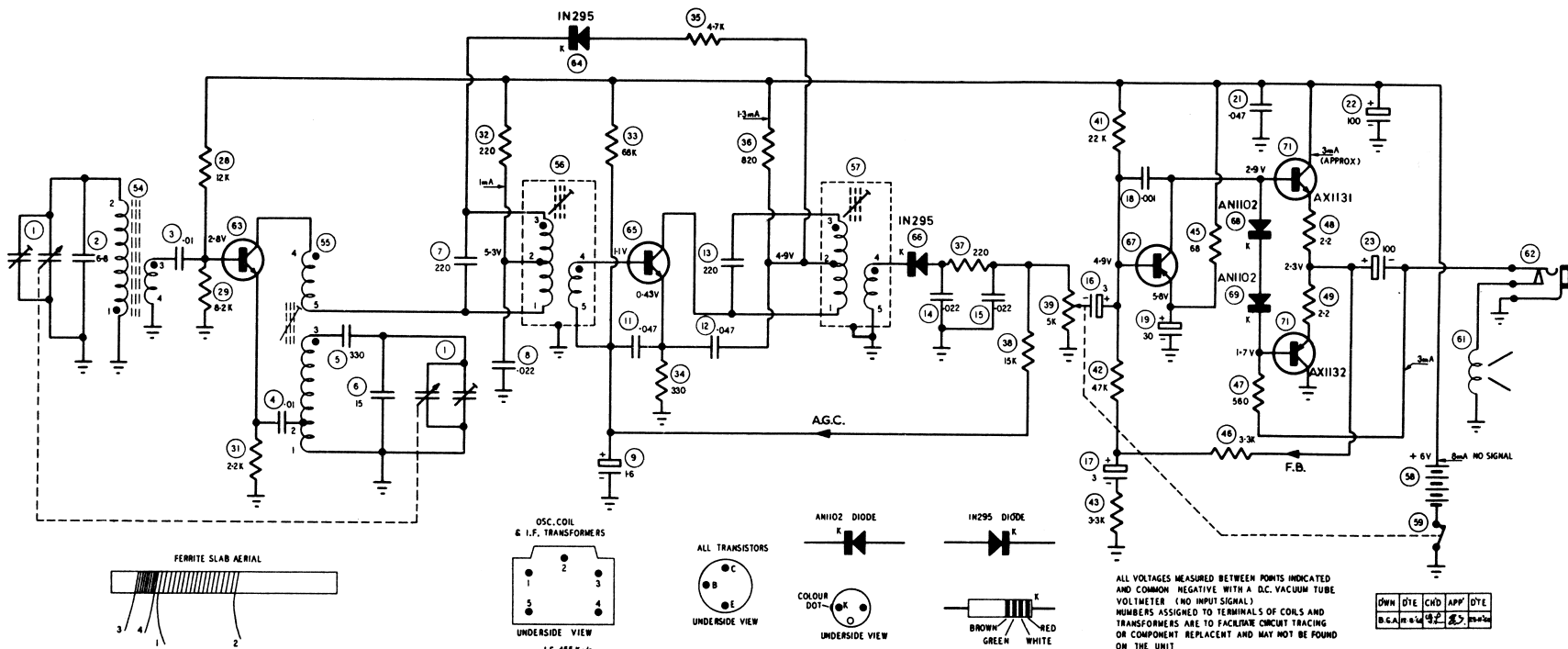
A81

AT316

AT316

AX1130

AX1131/AX1132



MODEL P20R

DWN	DYE	CHD	APP	DYE
B.C.A.	2	14	22	25

A8 1 ASTOR P20R

ALIGNMENT EQUIPMENT

Signal Generator - modulated 400 cps.
 Output Meter - 15 ohm impedance
 Generator Series Capacitor - .1uF Part No. 4006-005-03
 Alignment Tool
 Flat metal blade end - Part No. 4121-001-01 for I.F.T. and Osc. coil iron core adjustment and trimmer capacitor adjustment.

ALIGNMENT CONDITIONS

Volume Control - maximum setting
 Output Level - 50 milliwatts
 Output Meter
 Connection - to receiver earphone socket. Plug, Part No. 7171-015-01 is available for this purpose.
 Supply Voltage - 6V DC. (four 1.5V cells in series.)

INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Remove two screws and prise rear section off cabinet. The receiver chassis does not have to be removed from cabinet for alignment purposes. Fully mesh tuning gang plates and loosen tuning indicator locking screw. Set indicator to low frequency and of travel dial spot then tighten lock screw. Set tuning control to high frequency end of travel. Insert .1uF capacitor in series with generator "hot" lead.

Oper. No.	Generator Connection	Generator Frequency	Instructions.
1	To aerial secondary lead (convertor base.)	455Kc/s	Adjust iron core of 2nd IF trans. for max. output.
2	As oper. 1	455Kc/s	Adjust Iron core of 1st IF trans. for max. output.
3	Repeat operations 1 and 2 in same order.		

BROADCAST ALIGNMENT

- A To inject a signal into the receiver connect 2ft. of aerial wire to the "hot" terminal of signal generator. Fashion wire into a vertical position.
- B Place receiver so that ferrite aerial is uppermost and horizontal. Tuning end of receiver is to be toward but not less than one foot from generator aerial wire.

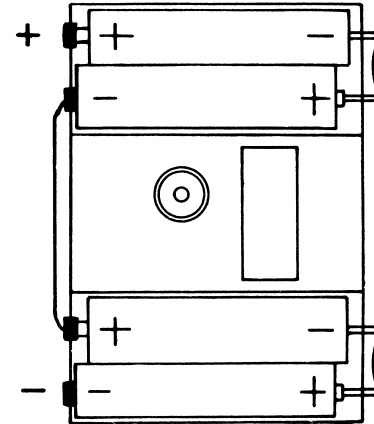
Oper. No.	Generator Connection	Generator Frequency	Instructions.
1	Refer Para. A. & B.	600Kc/s.	Set tuning indicator to 600Kc/s spot on dial. Screw in aerial trimmer to max. capacity then unscrew a half turn. Adjust iron core of oscillator coil for maximum output whilst rocking tuning gang thru signal.
2	As oper. 1	1400Kc/s	Set tuning indicator to 1400Kc/s spot on dial. Adjust oscillator and aerial trimmer capacitors for max. output. Do not rock gang.
3	As oper. 1	600Kc/s	Tune receiver to generator. Adjust iron core of osc. coil for max. output whilst rocking gang thru signal.
4	Repeat operations 2 & 3		
5	Tuning range 525 to 1610 Kc/s approx.		

TUNING INDICATOR DISC SETTING

Loosen disc locking screw, anticlockwise. Rotate the disc for optimum logging of the local stations then securely tighten the lock screw.

BATTERY REPLACEMENT

- 1 Remove screws and lift back off cabinet.
NOTE: It is most important that the cells be installed with the polarity as shown on diagram.
- 2 Before fitting new cells, lay the tapes provided into the cavities of battery holder.



CHASSIS REMOVAL

- 1 Hold tuning disc firmly, turn locking screw anticlockwise then remove screw, disc, rubber washers and extension bush from tuning shaft.
- 2 Remove and lift back off cabinet.
- 3 Remove batteries then remove a screw from each of the lower cavities in battery holder.
- 4 Remove hexagonal bush located between volume control and tuning gang.
- 5 Remove the chassis by lifting firstly the end near the tuning gang then the battery end. Note position of spacer washers on chassis screw.

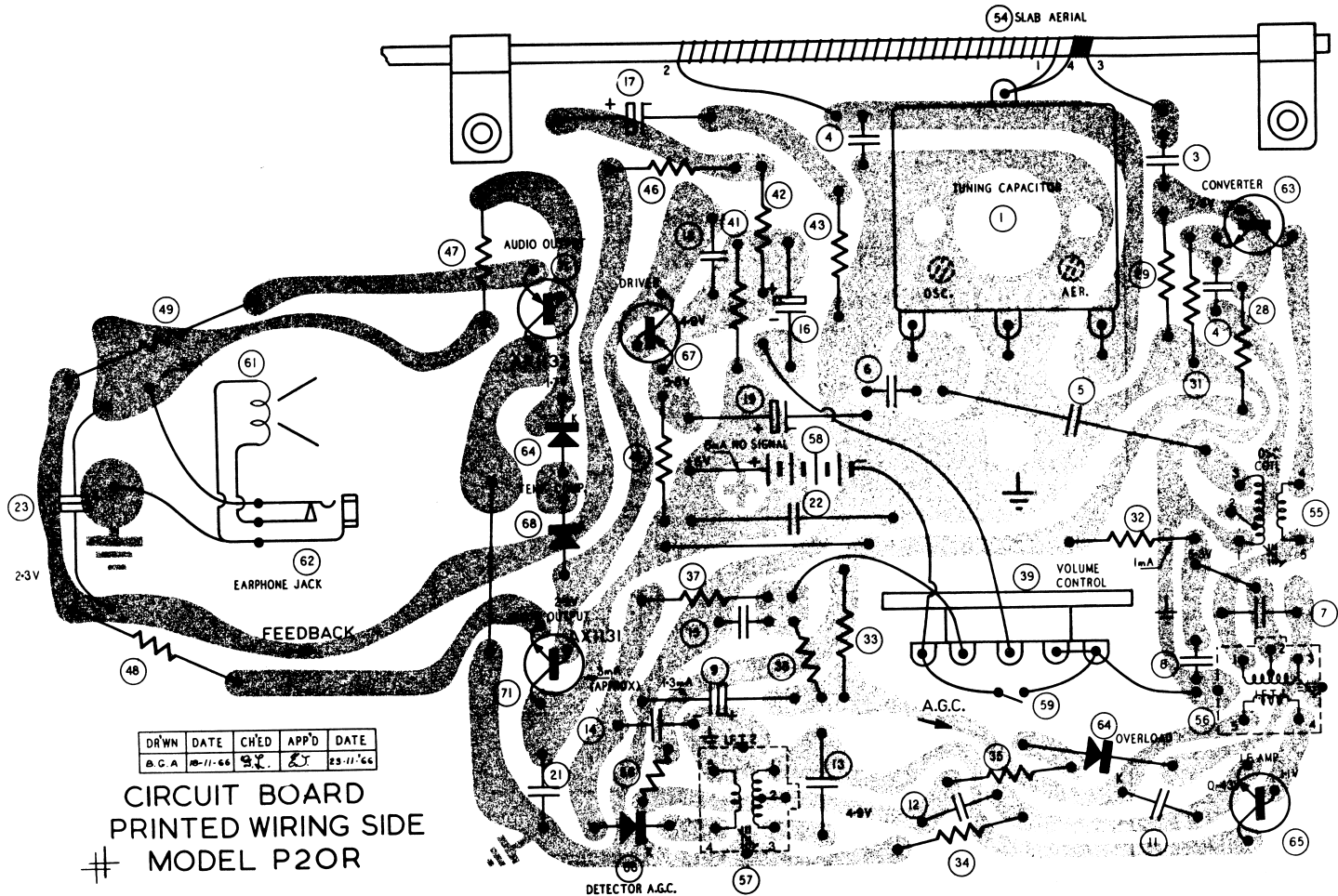
REFITTING THE CHASSIS

- 1 Reverse removal instructions. Check that spacer washers are located on chassis screw.
- 2 Set tuning indicator as detailed in Alignment Procedure.

CLEANING AGENT FOR CARRY BAG AND MOULDED PLASTIC CASE.

Do not polish the carry bag or the moulded plastic case with an abrasive material, motor car polish, boot polish or similar household cleaning fluids as permanent damage may result to the finish of the carry bag or the moulded case.

To restore the finish of the carry bag and moulded case wipe with a soft cloth dampened with water and lightly polish with a neutral wax.



DR'WN	DATE	CH'ED	APP'D	DATE
B. G. A.	10-11-66	[Signature]	[Signature]	23-11-66

CIRCUIT BOARD
PRINTED WIRING SIDE
MODEL P20R