

ALIGNMENT EQUIPMENT

Signal Generator	- modulated 400 cps
Output Meter	- 15 ohm impedance
Generator Series Capacitor	- .1uF Part No. 4000-005-03 for I.F.T. alignment
Alignment Tool	- Flat blade each end Part No. 4121-001-01

ALIGNMENT CONDITIONS

Volume Control	- maximum
Tone Control	- treble position "H"
Output Meter Connection	- to speaker "OFF" jack socket
Supply Voltage	- 6V D.C. (four 1.5V cells in series)

INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Remove back off cabinet. The receiver chassis does not have to be removed for alignment purposes.

Set tuning gang to high frequency end of travel position.

Insert .1uF Capacitor in series with generator "hot" lead.

Oper. No.	Generator Connection	Generator Frequency	Instructions
	To pin "B" on circuit board (converter base)	455 Kc/s	Adjust iron core of 3rd IF trans. for max. output
2	As oper. 1	455 Kc/s	Adjust iron core of 2nd IF trans. for max. output.
3	As oper. 1	455 Kc/s	Adjust iron core of 1st IF trans. for max. output
4	Repeat operations 1, 2 and 3.		

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SETTING THE DIAL POINTERS

Turn thumb wheel until tuning capacitor is against low frequency end of travel stop. Pointers are to align with end of travel spots on dial reading.

OUTPUT TRANSISTOR COLLECTOR CURRENT ADJUSTMENT

Equipment: 0 - 10 mA. DC meter

Conditions: Disconnect the link marked "M" on the circuit board pins located near the left-hand end of board. Connect meter positive lead to the collector of AC132 (pin toward top of board). Connect meter negative lead to other pin (chassis).

Connect 6V. DC supply to receiver, switch "ON" and turn volume control to min. position. Do not disconnect speaker.

Adjust bias potentiometer to obtain a reading of 2.5 mA. at a room temperature of 25°C.

NOTE: Reading will vary with temperature. From this table select the correct current and adjust bias to obtain same.

59°F	-	15°C	1.2 mA
68°F	-	20°C	1.7 mA
77°F	-	25°C	2.5 mA
86°F	-	30°C	2.9 mA
104°F	-	40°C	4.6 mA
113°F	-	45°C	5.9 mA

Bridge the two pins with a soldered wire link.

BROADCAST ALIGNMENT

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- To inject a signal into the receiver connect 2 ft. of aerial wire to the "hot" terminal of signal generator. Fashion wire into a vertical position.
- 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 and B	600 Kc/s	Set tuning pointers to 600 Kc/s spot on dial. Adjust iron cores of oscillator and RF coils also moveable winding on rod aerial for maximum output.
2	As oper. 1	1400 Kc/s	Set tuning pointers to 1400 Kc/s spot on dial. Adjust oscillator, RF and aerial trimmer capacitors in that order for max. output.
3	Repeat operation 1		
4	As oper. 1	1400 Kc/s	Tune to generator signal and adjust aerial trimmer capacitor whilst rocking tuning gang thru signal.
5	Tuning range after alignment	528 - 1605 Kc/s approx.	

REMOVING CHASSIS FROM CABINET

Remove cabinet back.

Lift battery holder out of cabinet.

Lift battery contact spring and stud plates out of cabinet slots.

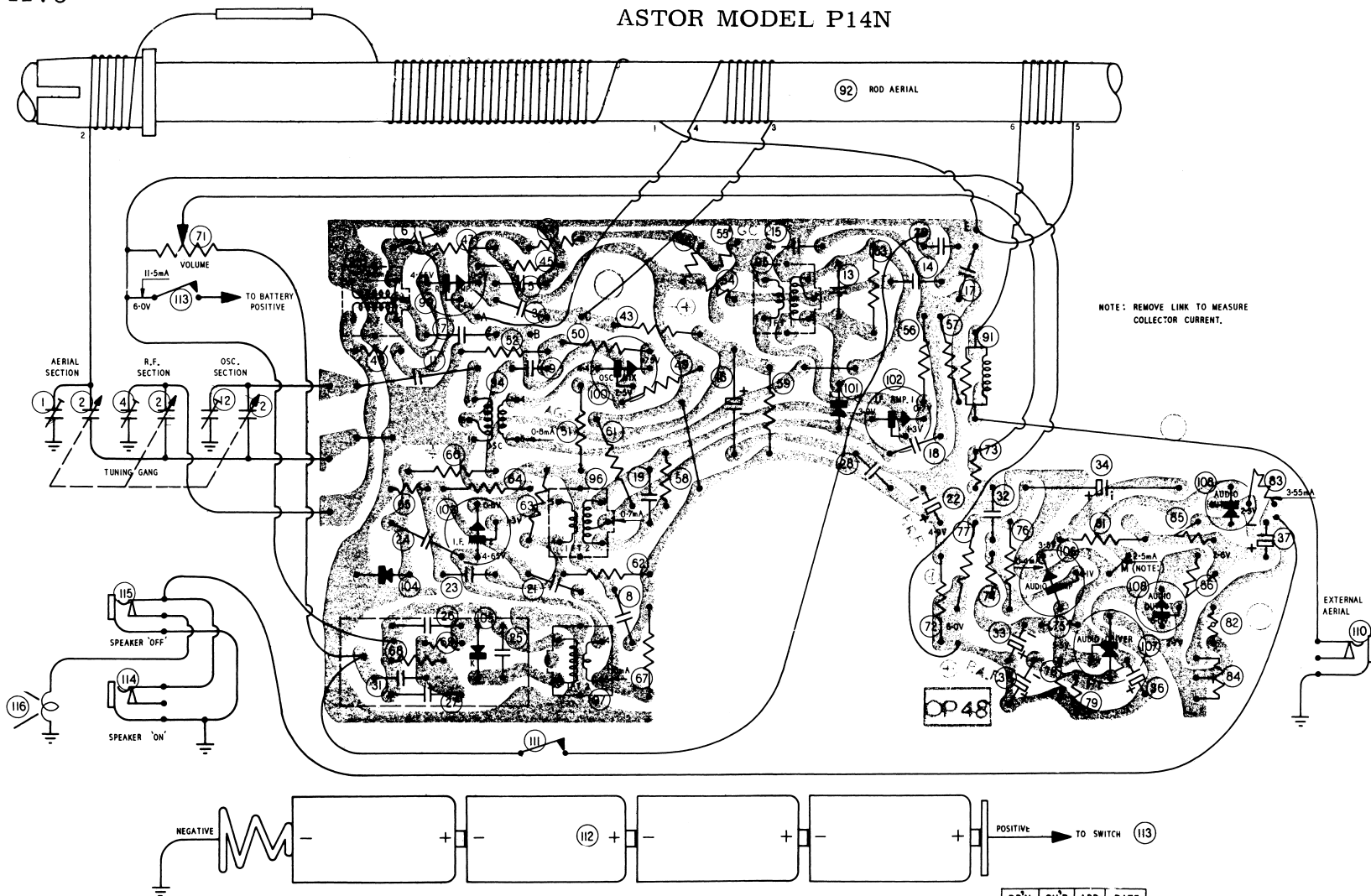
Lift jack socket mount plates out of cabinet slots.

Remove (4) black screws from chassis then lift chassis upward.

Disconnect leads from speaker then lift chassis away from cabinet. Remove (2) screws fastening tone switch in position.

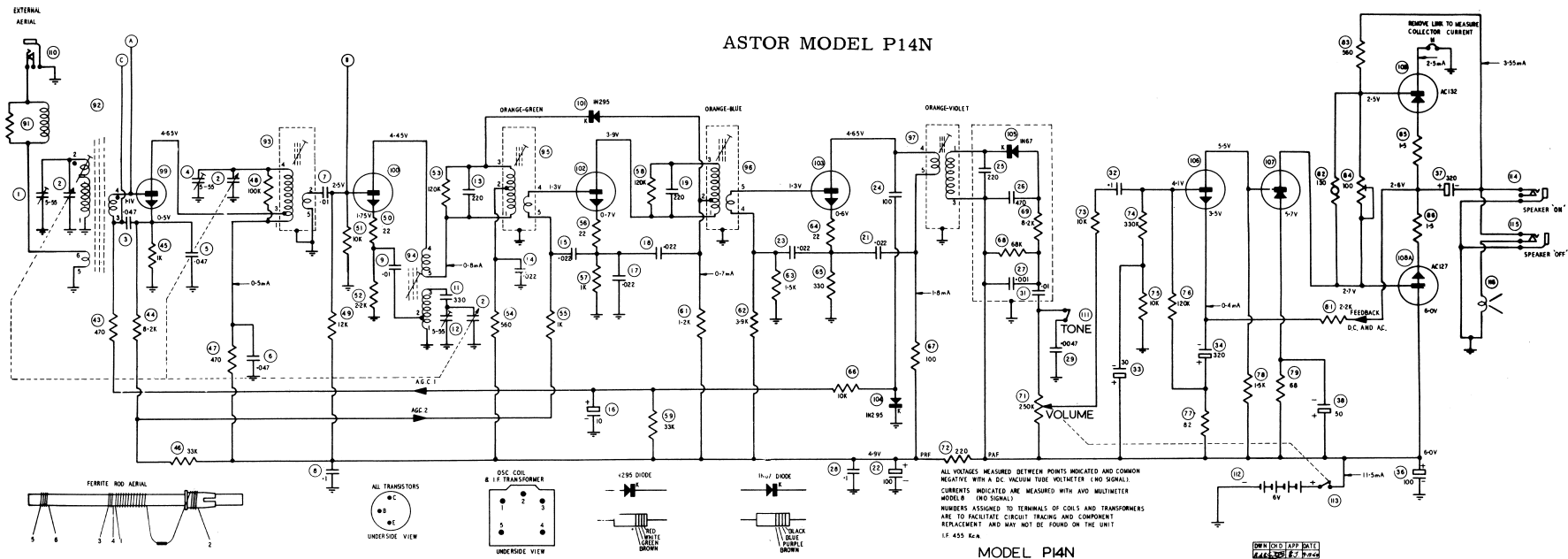
Refitting is the reverse to removal.

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CIRCUIT BOARD PRINTED WIRING SIDE MODEL P14N.

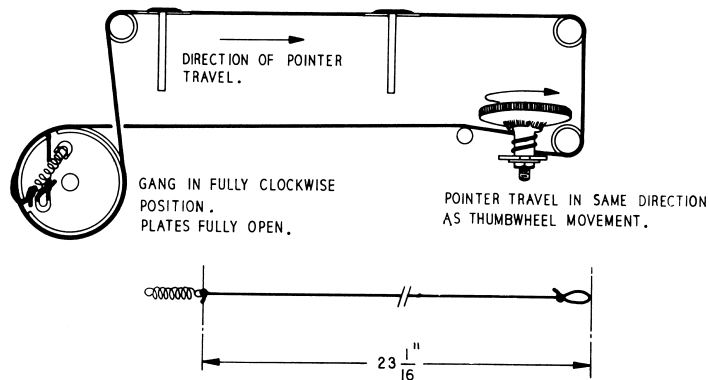
DR'N.	CH'D.	APP.	DATE
922	922	E.T.	3-12-65



MODEL P14N

DWN	CHD	APP	DAY
8.16	8.16	8.1	7-8

DIAL CORDING



Prepare cord and spring then install as shown.

ASTOR MODEL "P14N"
8 TRANSISTOR PORTABLE

