A9 Astor PD-C12J & MD-C12J

OPERATION OF OUTPUT TRANSISTORS AS MATCHED PAIRS

The type AT1138 transistors are operated in matching pairs, replacements MUST be made accordingly and NOT as single units.

Matched pairs as used in this receiver are identified by a colour dot or stripe or a letter stamped on to the top of the transistor body. Various batch colours or letters are in use. Transistors which have different batch idents, must not be operated together. A matched pair of AT 1138 transistors are supplied as: - 2-AT1138 Part No. h128-004-02.

REPLACEMENT OF OUTPUT TRANSISTORS

When refitting or replacing transistors check that the mount positions and faces are clean and free from dust, grit or metal particles.

Smear a thin film of silicone compound, Part No. 1036-001-09, on both sides of the mica and lead washers, also mount face of transistor and chassis.

Fit the insulating ferrules to the screw holes in chassis then fit mica washer, lead washer and transistor. Fasten each transistor securely with two ½"x No. 6 screws.

OPERATION OF DRIVER TRANSISTORS AS MATCHED PAIRS

The type AX1130 transistors are operated in matched pairs, replacements MUST be made accordingly and NOT as single units.

Matched pairs as used in this receiver are identified by a batch "letter" printed on the side of transistor housing. Transistors with different "letters" must not be operated together.

A matched pair of AX 1130 transistors are supplied as: - 2-AX1130, Part No. 4128-102-01.

MEASUREMENT AND ADJUSTMENT OF OUTPUT TRANSISTORS COLLECTOR CURRENT

EQUIPMENT Current Meter: 0-1 Amp. DC. Leads terminated with Jack Plug, Part No. 7171-015-02, positive terminal lead to tip contact. Supply Source: 13.0V DC.

CONDITIONS Note receiver polarity changeover switch position then connect supply leads accordingly. Connect speaker to receiver socket adjacent to

battery lead entry.

No signal applied to aerial socket.
Volume control; minimum position.

Connect meter to receiver socket located near speaker transformer on top lid.

- Switch receiver "ON" and allow to stabilize for at least five minutes.
- 2 Adjust the bias potentiometer (circuit No. 100) to obtain a reading of 150 mA.

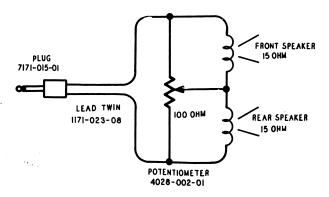
NOTE: If the supply source is below 13.0V DC, the meter readings are to be set as follows:

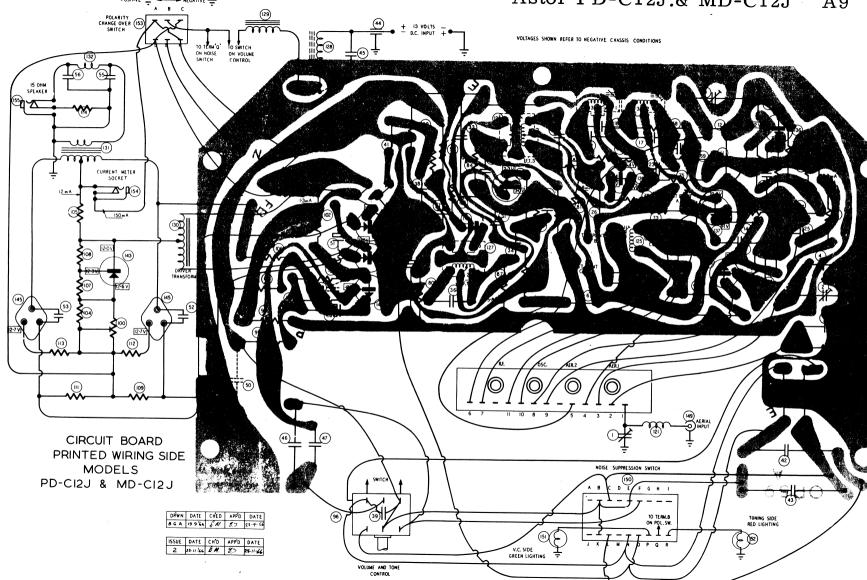
12.5V DC input - 120 mA meter indication

12.0V DC input - 85 mA meter indication

NOTE: No further adjustment of the bias should be necessary unless the output or driver transistors or associated componentry are replaced.

CONNECTION OF A FADER CONTROL FOR USE WITH FRONT AND REAR SPEAKERS





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FAULT LOCATION GUIDE - GENERATOR TEST

the following points:- NOTE Always start with a low generator output. Strong signals may overload the receiver or

CHECK	POIN7

Fach output transistor base Audio driver transistor base Audio amp. transistor base Top of volume control Detector input 2nd IF transistor base 1st IF transistor base Osc/mix transistor base Osc/mix transistor base RF transistor base Dummy aerial

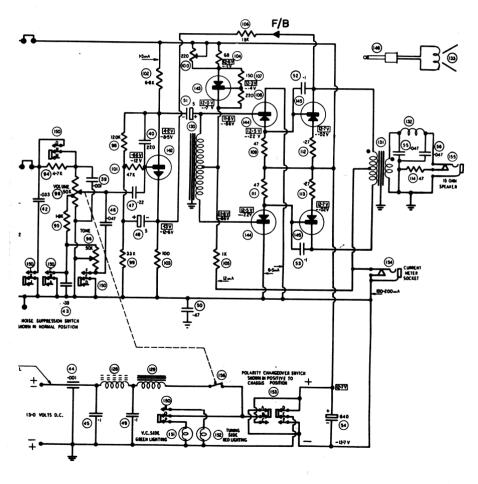
SIG. GEN. FREQ. Audio

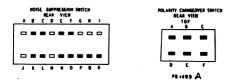
455 Kc/s Sig. Freq.

SIGNAL STRENGTH

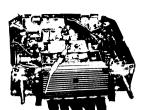
Adjust generator to provide a low signal Increase in level of check No. 1. Increase in level of check No. 2. Same level as check No. 3. Same level as check No. 3. Adjust generator to provide a low signal Increase in level of check No. 5. Increase in level of check No. 6. Increase in level of check No. 7. Adjust generator to provide a low signal Increase in level of check No. 9. Small decrease in level of check No. 9. Small decrease in level of check No. 10.

BC109 2N408 2-AXII30 2-ATII38





Astor PD-C12J. MD-C12J



INTERFERENCE REDUCTION SWITCH

Interference and static which originates in power lines, trams, welders, electrical storms, etc., may be reduced through the use of the Interference Reduction Switch.

To reduce the interference, make certain the radio is tuned accurately to the station, then turn the rear knob on the left of the dial anti-clockwise. As an indication of this position the dial illumination will change to red.

The switch should be returned to the clockwise position to obtain the best sound quality under good reception conditions. It should be noted that the switch over-rides the action of the tone control which is in-operative whilst the Interference Reduction Switch is in the anti-clockwise position.

