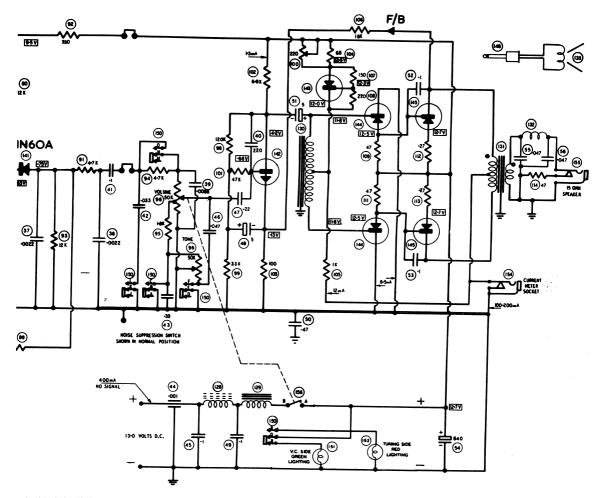


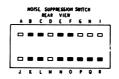
BC109 2N408 2-AXII30 2-ATII38



ALL VOLTAGES MEASURED BETWEEN POINTS INDICATED AND CHASSIS WITH A D.C. VACUM TUBE VOLTHETER. NO INSUT SIGNAL MANAGES ASSENDED TO TERMINATE SIG FORE NO TRANSFORMERS ARE TO FACILITE CHACUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT BE FOUND ON THE UNIT MOPORTANT:—REPER TO SERVICE DATA NN—CIZO FOR INSTRUCTIONS BEFORE ADJUSTINGS COLLECTOR CURRENCE OF ATILBIS.

# MODEL PN-C12Q PUSH BUTTON II TRANSISTOR NEGATIVE TO CHASSIS

DRAWN	DATE	CHKD	DATE	APP'D.	DATE
K.J.D.	24.4.67	PAP.	6-1-17	S.M.	5-6-67



# A12 Astor PN-C12Q

### 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 AT1138 transistors are supplied as: 2-AT1138 Part No. 4128-004-02.

#### 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 then fit mica washer, lead washer and transistor. Fasten each transistor securely with two 12" No.6 screws.

NOTE: Some batches of type AT1138 transistors have a thinner base flange than usual. Where these are fitted, the lead washer is deleted and the mount screws shortened

> Screw (2) } x No.6 Part No. 7201-577-04

## OPERATION OF DRIVER TRANSISTORS AS MATCHED PAIRS

The type AX1130 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 AX1130 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.

CONDITTIONS Connect supply leads, negative lead to receiver chassis. 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.

Adjust the bias potentiometer (circuit No.100) to obtain a reading of 150mA.

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

12.5V DC. input - 120mA meter indication 12.0V DC. input -85mA meter indication

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

