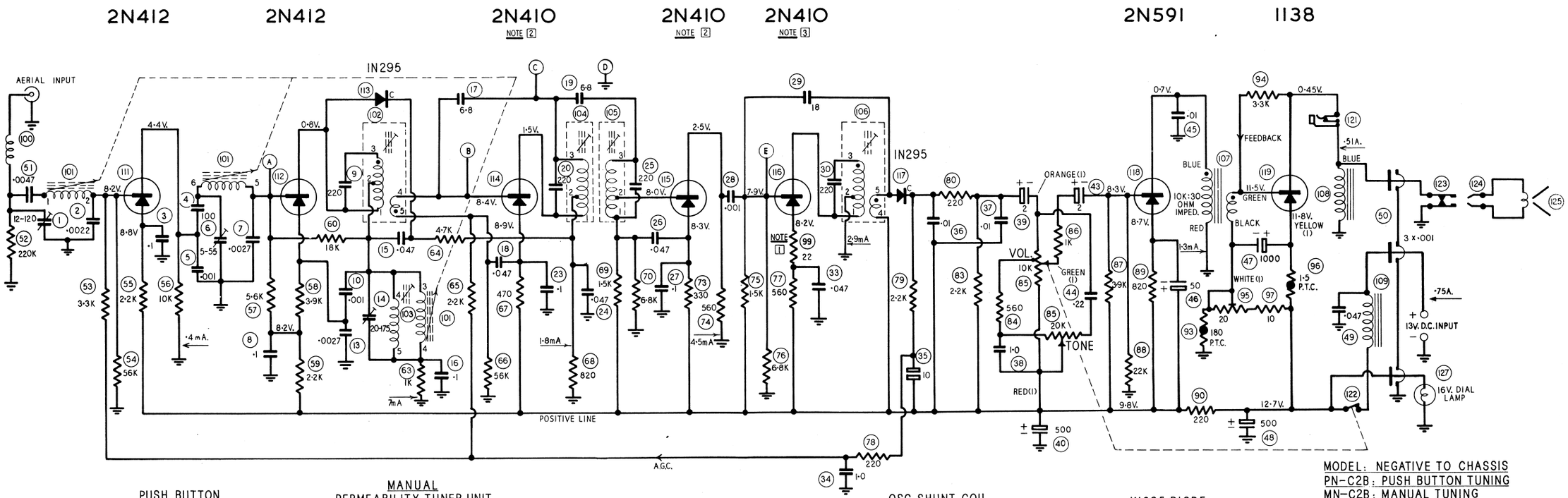
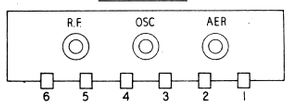
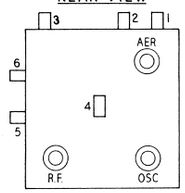


PUSH BUTTON PERMEABILITY TUNER UNIT REAR VIEW



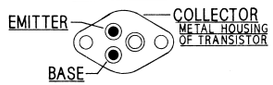
ALL VOLTAGES MEASURED BETWEEN POINTS INDICATED AND CHASSIS WITH A VACUUM TUBE VOLTMETER. NO INPUT SIGNAL.

MANUAL PERMEABILITY TUNER UNIT REAR VIEW



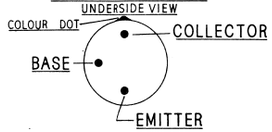
POWER TRANSISTOR

UNDERSIDE VIEW



SMALL TRANSISTOR

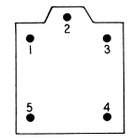
UNDERSIDE VIEW



LEAD COLOURS (E.G. RED (1).) INDICATE FLEXIBLE CONNECTIONS TO PRINTED CIRCUIT BOARD.

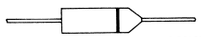
OSC. SHUNT COIL & I.F. TRANSFORMER

UNDERSIDE VIEW



I.F.: 455Kc's.

IN295 DIODE



CATHODE END OF DIODE IS DESIGNATED BY A COLOUR BAND OR THE LETTER 'C' OR 'K'.

NUMBERS ASSIGNED TO TERMINALS OF COILS AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT BE FOUND ON THE UNIT.

FOR USE OF TEST POINTS A,B,C,D & E AND ADJUSTMENT OF 1138 TRANSISTOR COLLECTOR CURRENT REFER TO SERVICE DATA.

MODEL: NEGATIVE TO CHASSIS
PN-C2B: PUSH BUTTON TUNING
MN-C2B: MANUAL TUNING

NOTE: 1 RESISTOR MAY BE BRIDGED IN SOME RECEIVERS

NOTE: 2 TYPE 2N410 TRANSISTORS ARE GRADED INTO GROUPS IDENTIFIED BY A COLOUR SPOT LOCATED ON TOP OF TRANSISTOR CASE:- FOR OPTIMUM PERFORMANCE, REPLACEMENT TRANSISTORS SHOULD BE OF THE SAME GAIN GROUPING AS ORIGINAL.

NOTE: 3 TRANSISTORS ARE NOT GRADED FOR USE IN THIS STAGE.

PB1191

FAULT LOCATION GUIDE - GENERATOR CHECK

Connect generator through .1 mfd capacitor to the following points.
CAUTION: Always start with low generator output. Strong signals may overload the receiver or cause the AGC to function. Set volume control at maximum.

CHECK POINT	LOCATION Circuit Nos. or Test Pins at Junction Point	Signal Generator Frequency	SIGNAL STRENGTH
Output transistor base	At Socket	Audio	Weak
Audio driver base	Nos. 43, 87 & 88	"	Increase in level
Detector o/p or v/cont.		"	Same level as above
Detector input	Term. 5 of I F.T.4	455 Kc/s	Signal
IF amp No. 3 base	Test pin E	" "	Increase in level
IF amp No. 2 base	Term. 2 of I. F. T. 3	" "	Increase in level
IF amp No. 1 base	Test pin B	" "	Increase in level
Fit IF attenuator to pins C & D before proceeding			
Osc. mixer base	Term. 5 tuner unit	455 Kc/s	Increase in level
Osc. mixer base	Term. 5 tuner unit	Sig. Freq.	Signal
RF base	Term. 2 tuner unit	" "	Small increase
Dummy aerial		" "	Small decrease

FAULT LOCATION GUIDE - CLICK TEST

Connect one end of 6.8K resistor to the chassis. Touch the other end on and off the following points and listen for clicks.

CHECK POINT	LOCATION Circuit Nos. or Test Pins at Junction Point	STRENGTH OF CLICK
Volume control set at minimum.		
Output Base	At socket	Weak click
Audio driver base	Nos. 43, 87 and 88	Loud click
Volume control set at maximum.		
IF amp No. 3 base	Test pin E	Weak click
IF amp No. 2 base	Term. 2 of I. F. T. 3	Weak click
IF amp No. 1 base	Test pin B	Loud click
Osc. mixer collector	Anode of 1N295 (Cir. No. 113)	Loud click
Osc. mixer base	Term. 5 tuner unit	Loud click
RF Collector	Nos. 4, 5 and 56	Loud click
RF base	Term. 2 tuner unit	Loud click