

RADIO DATA SHEET No. 118

DESCRIPTION: Model 11-118 is an 18 transistor, 8 diode, 1 Zener diode, Broadcast Band Stereophonic Radiogram, fitted with a Tuning indicator/Balance Meter. It is housed in three timber units, which may be located together to form a combination or positioned separately, as desired by the user. The Main unit, known commercially as the Command Module, houses the chassis and controls. The remaining two units, known as the Satellite Modules, house the loudspeakers; each Satellite Module being fitted with a four-cone speaker system, one Module for each stereo channel.

The Sound Monitor Control Panel on the Command Module provides the following controls or facilities:—

- a) Radio Tuning b) Balance c) Bass d) Treble
- e) Balance f) Hi-Fi Output g) Filter h) Radio
- i) Gram. j) Off. k) Two Pre-Amp Output Jacks, one per channel, for recording (at a constant output). l) Two Main-Amp Input Jacks, one per channel, for playback (level varied by Volume Control). m) Two Microphone input Jacks, one per channel, for paging (level varied by Volume Control) or recording (at a constant output). When recording, the level should be adjusted by the tape recorder control-s).
- n) Tuning Indicator/Balance Meter.

Two microphones (Part No. 90-7400) are supplied with the unit. Ample record storage space is available in the Command Module, below the Control Panel, behind the hinged front panel (which is fitted with a Press-to-Release catch).

SPEAKERS: 2x15", 15ΩMagnavox, Kriesler Type C15W. 2x5", twin cone, 15ΩMagnavox Type HF5S1C. 2x3", 15ΩMagnavox Type 3TC.

IMPORTANT NOTE: Switch "Off" before connecting or disconnecting speakers because, if an accidental short on the speaker plug occurs and the amplifier is operating at high volume, damage to the output transistors is likely to result.

The amplifier has been designed to operate into a 15Ω load. If, either temporarily or permanently, operating extension speakers separately or in parallel with the speakers provided and a makeshift speaker impedance match is considered acceptable, the total combination impedance should not be less than 8Ω. Too low an impedance, applicable to both channels at high volume, may blow the secondary fuse; or to one channel, may damage the output transistors.

RECORD CHANGER: Dual 1015F

CARTRIDGE: Shure dynetic M44-7

STYLUS: Shure N44-7, Diamond

STYLUS PRESSURE: 3 grammes, variable.

AUDIO POWER: Music Power, 35 watts. RMS Power, 14 watts/channel at 1% distortion at 1 KHz.

| | | | |
|-------------------------------------|-----------|--------------|-----------|
| DIMENSIONS: Command Module:— | 19½" Wide | 29.5/8" High | 18¾" Deep |
| Satellite Modules, each:— | 18" Wide | 29.5/8" High | 18¾" Deep |

WEIGHT: Total combination:— 205lb. (nett). With pallet and carton:— 240lb. (gross).

MAIN SUPPLY: 230-275 V.A.C., 50 Hz, Transformer tapped for nominal 240 or 260 V.A.C. The chassis is suitable for operation on a mains frequency of 40, 50 or 60 Hz., but for "Gram" operation on other than 50 Hz., the motor pulley must be changed.

FUSES: A 3 amp is fitted in the power transformer secondary lead; and a wired fuse for the dial lamps supply is located on a lug strip in the power supply (0.012" dia. tinned copper wire).

AERIAL: In-built ferrite rod, with provision for connecting an external aerial.

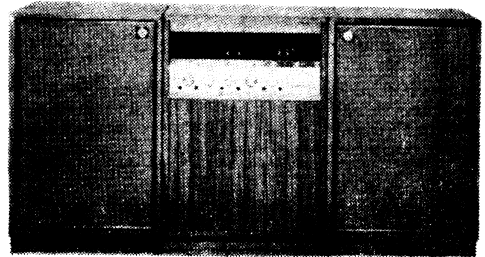
EARTH: If the mains earth is not a satisfactory 'radio' earth, a separate earth may be connected to the metal chassis-work (not the printed board earth).

Tuning Range: 525—1635 KHz.

I.F. 455 KHz.

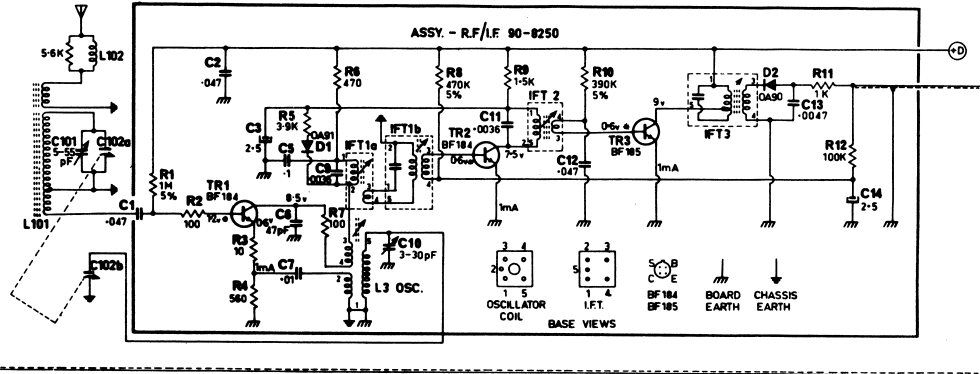
ALIGNMENT: Conventional

SPECIAL NOTE, RECORD CHANGER: On all occasions of transporting the Command Module, the record changer transit screws should be tightened (see instructions on hinged lid at rear of Command Console) and the tone arm anchored under the clamp-clip to prevent damage to the unit. On installation, the transit screws must be loosened; and the tone arm unclamped preparatory to operate the changer.

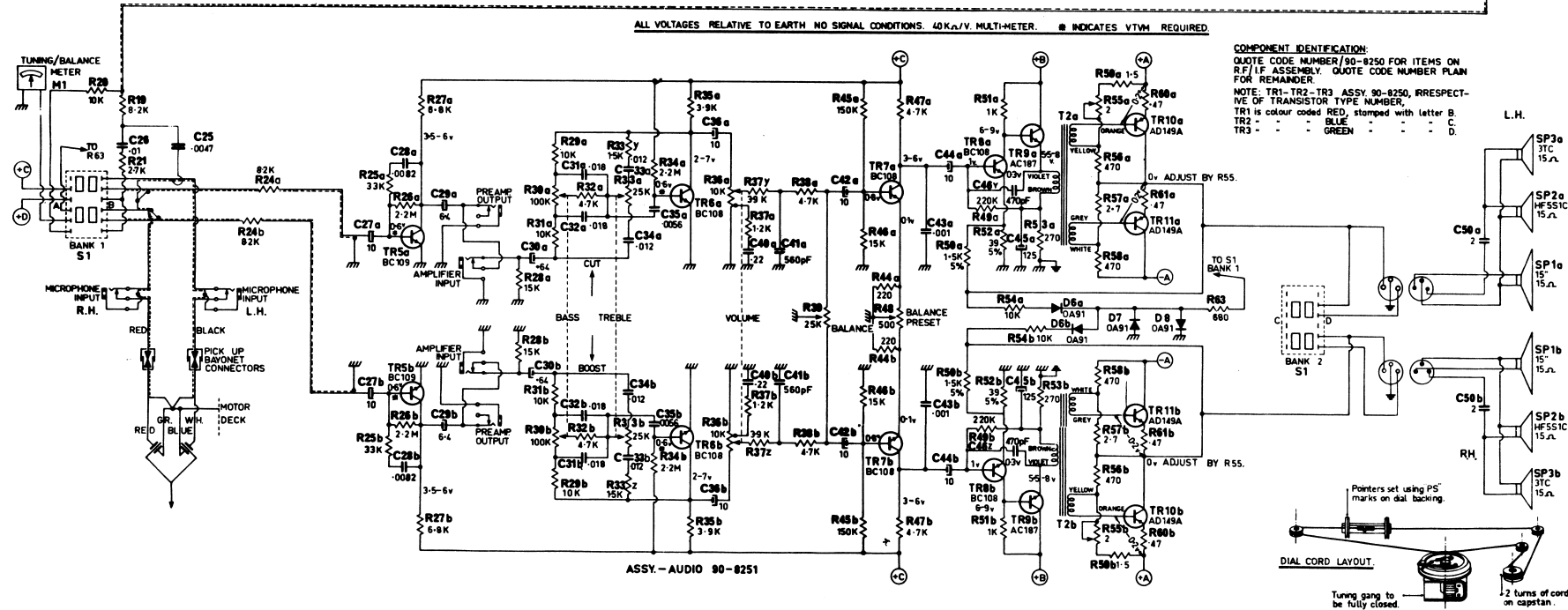


11-118

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ALL VOLTAGES RELATIVE TO EARTH NO SIGNAL CONDITIONS. 40 K Ω /V. MULTI-METER. # INDICATES VTVM REQUIRED



ALIGNMENT PROCEDURE

| STEP | SIGNAL GEN. FREQUENCY | CONNECT SIGNAL GENERATOR TO— | WITH TUNING GANG— | PROCEED AS FOLLOWS |
|----------|---|------------------------------------|-------------------|--|
| 1. | 455 Kc/s | Base of TR 1 | Closed | Peak core of IFT 3 |
| 2. | 455 Kc/s | IMPORTANT | Closed | Peak core of IFT 2 |
| 3. | 455 Kc/s | Connect | Closed | Peak core of IFT 1 |
| 4. | — | generator earth to emitter of TR 1 | — | Repeat until no further gain is obtainable. |
| 5. | 455 Kc/s | Radiate into Aerial | Closed | Check alignment of IFT 1 |
| 6. | 525 Kc/s | Radiate into Aerial | Closed | Adjust oscillator coil until signal is heard. |
| 7. | 1635 Kc/s | Radiate into Aerial | Open | Tune oscillator trimmer until signal is heard. |
| 8. | 600 Kc/s | Radiate into Aerial | at 600 Kc/s | Peak aerial coil. |
| 9. | 1500 Kc/s | Radiate into Aerial | at 1500 Kc/s | Peak aerial trimmer. |
| 10. | Repeat 8 and 9 until no further gain is obtainable. | | | |

NOTE: Inject 455 Kc/s signal to base of TR 1 via a 0.22 uF capacitor.

