KRIESLER AUSTRALASIA PTY LIMITED

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TECHNICAL ADVISORY SERVICE SERVICE SHEET NO. 133

PLEASE CIRCULATE TO YOUR SERVICE DEPARTMENT

STEREOPHONIC RADIOGRAM MODEL 11-140

July, 1970

DESCRIPTION:

This model is a 3-piece modular Broadcast Band stereophonic radiogram in the "World Series" range. The 15-transistor, 5-diode chassis is essentially the same as used in Models 11-124 etc. but does not employ a regulated power supply. Zener diode regulation is provided for the radio tuner supply.

POWER OUTPUT: 5W r.m.s. per channel at 10% T.H.D. Music power total 10W (I.H.F.) (5% distortion).

MAINS SUPPLY: 240V, 50Hz. Power Transformer tapped for 260V (nom.) operation. The chassis is suitable for operation on a mains frequency of 40, 50 or 60 Hz but the record changer motor must be changed for operation on other than 50 Hz.

FUSES:

High Tension: 2A Type 3AG (in holder)
Dial Lamps: 0.012" diameter tinned copper wire.

RANGE OF TONE CONTROLS:

Treble: +10 dB to -10 dB at 10 kHz. Bass: +12 dB to -15 dB at 50 Hz.

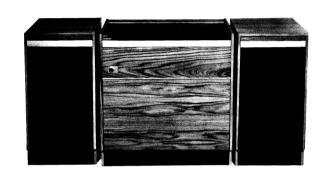
NOTE: The volume control is provided with a loudness compensation network; the above figures were taken with this control at mid-position.

AMPLIFIER BIAS PRESET ADJUSTMENT: The preset R44 enables the drive current of TR7 to be set at the correct level for maximum output and minimum distortion irrespective of the Beta spread in the transistors. Check adjustment of R44 if TR9 or TR10 have been replaced.

To adjust:

- Inject 1 kHz signal at low level into the P.U. input of each channel in turn.
- Connect a C.R.O. to the negative side of the speaker coupling capacitor C36.
- Increase generator signal until clipping just becomes visible on the C.R.O.
- Adjust R44 until the clipping is equal on both positive and negative half-cycles. Repeat for other channel.

CLEANING TINTED ACRYLIC COVER: Fingermarks and dust particles are best removed by wiping gently with a soft cloth moistened with methylated spirits. This process also removes any electrostatic charge on the acrylic, so preventing further attraction of dust particles for a time. For this reason, do not wipe completely dry.



MODEL 11-140

NOTE: The circuit diagram attached to this model is for technical guidance only and may differ in some aspects from the actual circuit used.

DIMENSIONS:

Unit	Height	Width	Depth		
Command Module	25½"	24 3/8"	15"		
Satellite Modules	25½"	13"	15"		

RECORD CHANGER CARTRIDGE STYLUS
B.S.R. MA65 Tetrad 2 C2D Diamond

LOUDSPEAKERS:

8" Twin-Cone. Magnavox 8ER/8 ohm v.c.

CAUTION: Switch off before connecting or disconnecting speakers. An accidental short-circuit on the speaker jacks may damage the output transistors. The amplifiers are designed to operate into an 8 ohm impedance load. If additional speakers are used, the total load match per channel must not be less than 6 ohms.

TRANSPORT PRECAUTIONS: Before transporting the unit, the record changer transit screws must be tightened and the pick-up arm clipped to its rest to prevent damage. On installation, the transit screws must be loosened and the pick-up arm unclipped before operating the changer.

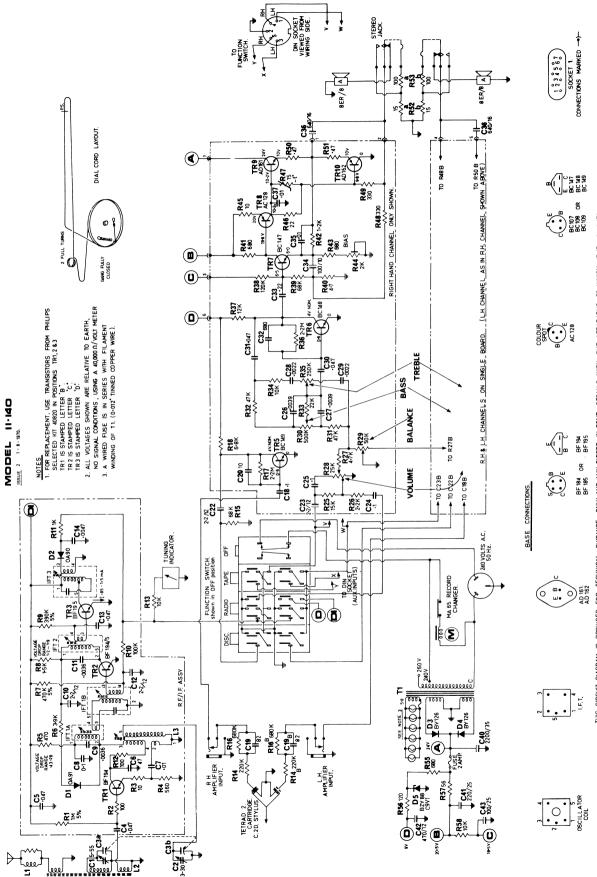
ALIGNMENT PROCEDURE

STEP	SIGNAL GEN. FREQUENCY	CONNECT SIGNAL GENERATOR TO –	WITH TUNING GANG –	PROCEED AS FOLLOWS		
1	455 KHz	Base of TR 1	Closed	Peak core of IFT 3		
2	455 KHz	via 0.22 μ F.	Closed	Peak core of IFT 2		
3	455 KHz	·	Closed	Peak core of IFT 1		
4	_		-	Repeat until no further gain is obtainable		
5	455 KHz	Radiate into Aerial	Closed	Check alignment of IFT 1		
6	525 KHz	Radiate into Aerial	Closed	Adjust oscillator coil until signal is heard		
7	1635 KHz	Radiate into Aerial	Open	Tune oscillator trimmer until signal is heard		
8	600 KHz	Radiate into Aerial	at 600 KHz	Peak aerial coil		
9	1500 KHz	Radiate into Aerial	at 1500 KHz	Peak aerial trimmer		
10	Repeat 8 and 9	until no further gain is obtain	nable			

CARE OF CABINET: Polish with any reputable make of furniture polish. If alcoholic spirits are accidentally spilled on woodwork, the effect cannot be removed unless wiped off immediately. Beer, soft drinks or milk beverages may be removed by wiping with a soft absorbent cloth. Polish if necessary. The anodised aluminium surfaces are reasonably impervious to fingermarks, most household foodstuffs, soft drinks and alcohol, but they should be wiped off without delay. Milk, lemon juice, some household cleansers

and some bleaches produce a stain which, though usually discernible at certain viewing angles only, is indelible. Rubbing with steel wool will produce a prominent mark; therefore, VERY LIGHT rubbing should only be resorted to if the mark so produced if less disfiguring than the original stain. A soft cloth moistened with water, to which a few drops of detergent have been added, will remove substances which do not stain. After cleaning, the surface should be dried with a soft cloth.

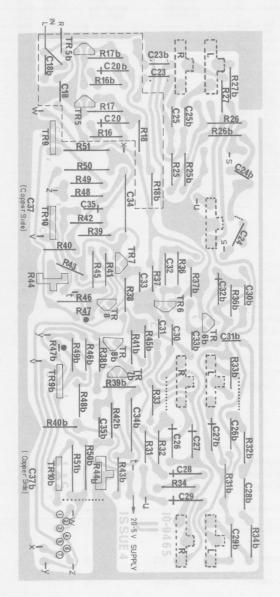
RES	RESISTORS													
R1 R2 R3 R4 R5	1M 100 10 560 470	5 10 10 10 10	½W 	RMB DUCON " " " " " "	R37 R38 R39 R40 R41	12k 120k 68k 4.7. 680	10 10 10 10 10	., ,, ½W ½W	" " " " MORGANITE RMB DUCON	C9 C10 C11 C12 C13	0.0036 2.2 0.0036 2.2 0.047	5 -10 + 100 5 -10 +100 -20 +80	50V 12VW 50V 12VW 25V	Styroseal Electro. Styroseal Electro.
R6 R7	3,9k 470k	10 5	.,	" "	R42 R43	1.2k 680	10 10	"	" "	C14	0.0047	-20 +80	25V	Ceramic "
R8 R9 R10	1.5k 390k 100k	10 5 10	"	" "	R44 R45 R46	2k 10 22	10 10	ias Preset. I ½W "	RMB DUCON	C18 C19 C20	0,1 82p 10p	10 5 "	50∨ 500∨ ″	Polyester Ceramic "
R11 R12 R13	1k 100 10k	10 10 10	"	" " " "	R47 R48 R49	15 330 330	Themi 10 10	1/2W	E215AB/P15E RMB DUCON	C22 C23	2.2 2.2	-10 +100	12,VW	Electro.
R14 R15 R16	220k 68k 680k	10 10 10	"	" " " "	R50 R51 R52	0.47 0.47 15	10 10 10	" 5W	BW½ I.R.H. ,,,, PWS I.R.H.	C24 C25 C26	0.1 0.1 0.0039	10 ,, 20	50,V 100V	Polyester "
R17 R18	2.2M 6.8k	10 10	"	" "	R53 R55	100 680	10 10	½W 1W	RMB DUCON	C27 C28 C29	0.0039 0.0022 0.0022	10	50 _, V	"
R25 R26 R27	15k 2.2k 4.7k	10 10 10	½W ,,	RME DUCON	R56 R57 R58	120 56 10k	10 10 10	½W 1W ½W	RMB DUCON RMC DUCON RMB DUCON	C30 C31 C32	0.047 0.047 680p	" 20	" 100V	,, ,, Styroseal
R28 R29 R30	25k 50k 500k	VOLUM BALAN BASS		32-10213 32-10214 32-10215	C1 C2	5-55 3-30	Trim Trim	mer	CWA/O DUCON	C33 C34 C35	0.22 100 0.01	20 -10 +100 10	50V 10VW 50V	Polyester Electro.
R31 R32 R33	47k 47k 22k	10 10 10	½W "	RMB DUCON	C3 C4 C5		g Gang -20 + 80	25V	MSP 63-8234 Ceramic	C36 C37	640 0.01	-10 +100 20	16VW 25V	Polyester Electro. Ceramic
R34 R35 R36	10k 250k 2.2M	10 TONE	,, : :/2W	,, ,, 32-10216 RMB DUCON	C6 C7 C8	47p 0.01 0.1	10 20 -20 + 80	500V 25V 25V	"	C40 C41 C42	2200 220 470	-10 +100 "	35VW 25VW 12VW	Electro.
72VV						"								
L1 L2 L3 IFT1 IFT1		Compensating Loopstick Ass' Oscillator Coil Philips Philips	'y	34-4657 14-8315 14-8229 CZ.651.000 CZ.651.006				Speaker	n Switch ocket oone Jack Sockets		Type 75	pe 14 Case A -10206 05 029S 3-23-6	`	
IFT2 IFT3 T1		Philips Philips Power Trans.		CZ.651.004 CZ.651.005 18-11502							Type 3A Type 36 M0 6.3V, 0.3	546 DJBISR		



THIS CIRCUIT DIAGRAM IS PROVIDED FOR TECHNICAL GUIDANCE ONLY AND MAY DIFFER IN SOME DETAILS WITH THE APPARATUS TO WHICH IT IS ATTACHED. FOR ADDITIONAL INFORMATION REFERST KRIESLER SERVICE DEPARTMENT.

R.F./I.F. BOARD

ALL VIEWS FROM PRINTED WIRING SIDE



MAIN AMPLIFIER BOARD