RADIO DATA SHEET No. 109

DESCRIPTION: Kriesler "Twinni", Model 11—113 is a light-weight portable, solid state radiogram; covering the broadcast band, the gram reproduction being monaural. The circuitry includes 7 transistors and 3 diodes, with complementary symmetry output configuration. The unit is housed in a polypropylene case, available in a variety of currently fashionable colours.

RADIO TUNER:: 3 Silicon transistor stages, overload diode and diode demodulator.

AERIAL: Ferrite rod, 6^{**} x $3/4^{**}$. Complete Assembly, Part No. 14 -4396.

TUNING RANGE: 525-1800 KHz. I.F. 455 KHz.



MODEL II-II3

ALIGNMENT PR	DCEDURE								
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	1800 Kc/s	Radiate into Aerial	Open	Tune oscillator trimmer until signal is heard					
8	600 Kc/s	Radiate into Aerial	at 600 K c/s	Peak aerial coil					
9	1700 Kc/s	Radiate into Aerial	at 1700 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.

RECORD CHANGER: BSR Type TU12, four speed. CARTRIDGE: Tropic proof C1 ceramic. STYLUS: Type ST3, Sapphire.

STYLUS PRESSURE: 6-8 grammes.

CONTROL St Three.

a) Off-on/Volume.
b) Tuning.
c) Speed Selector/Radiogram switching.

NOTE: Radio operates only when the speed selector is placed in the "R" position. CAUTION: Always return motor speed selector to neutral ("R") when unit is not in use, to avoid forming a "flat" on the idler wheel. The motor has no automatic "stop" but the Off-on/Volume control switch disconnects power from the motor which, with no power applied, is stopped by hand.

POWER SUPPLY: 220-260 V.A.C. Mains, 50 Hz. Change motor if supply frequency is 40 or 60 Hz.

SPEAKER: 4", 10Ω, Rola type 4D00/10.

DIMENSIONS: 17" Wide, 11" High, plus handle, 5" Deep. WEIGHT: 10 lb.

K21. a

CHASSIS ACCESS: Place unit upside down, on lid. From the back, remove the outer screw from each of the two black polythene feet, and the two silver-plated mushroomhead screws near the bottom edge. Remove one screw adjacent to each end of the lower section of the carrying handle. Lift off back to expose chassis and components.

RESISTOR DATA: All resistors are $\frac{1}{2}$ W ± 10% except as follows:— R1, R8 and R10, ± 5%. R103, Volume Pot/Off—on Switch, Part No. 32—7110. R109, Termistor, Philips B8 01A/130E. R113, R114, $\frac{1}{2}$ W wirewound.

CAPACITOR DATA

C9 C10 C11	.0047 2: 2.5uF 10	5V 6V	Ceramic Ceramic Electro		C2 C3	.047uF 2.5uF	25V 16V	Ceramic Ceramic Electro	C105 C106 C107 C108	40uF .01uF 40uF 0.1ufd	16V 25V 16V 25V	Electro Ceramic Electro Ceramic
C12	.0047 2	5V	Ceramic		C4	0.1uF		Ceramic				
C101	Trimmer		5/55pF	CWA/o	C5	47pF	500V	Ceramic	C109	100pF	600V	Styroseal
				J, J			251/	Ceramic	C110	0015uF	2001/	Styroseal
C102	Tuning Gar	ng	63-8363									
C103	Trimmer W	ire	3/30pF					Styroseal	C111	250u F	16V	Electro
	.01uF 1				C8	.0036uF	50V.	Styroseal	C112	2000uF	25V	Ducon ET 5D

L101 Loopstick Assembly 14-4396 IF1a I.F. Transformer CZ651-000 IF1b I.F. Transformer CZ651-006 IF2 I.F. Transformer CZ651-004 IF3 I.F. Transformer CZ651-005

T1 Power Transformer 18-8562

Switch SW2 Cherry 111 Switch SW3 MSP Series 500 Part No 90-8564 Knobs 20-7940 Knob Insert, Radio 16-8561 Knob Insert, Volume 16-7940



