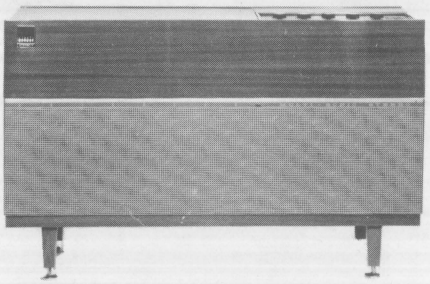
KRIESLER
AUSTRALASIA PTY. LIMITED

BOX 107 P.O. CARINGBAH N.S.W. 524-0444

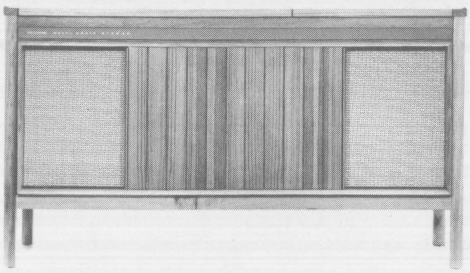
TECHNICAL ADVISORY SERVICE
SERVICE SHEET NO. 114

PLEASE CIRCULATE TO YOUR SERVICE DEPARTMENT

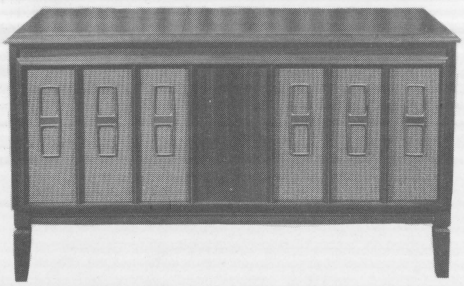
MODELS:



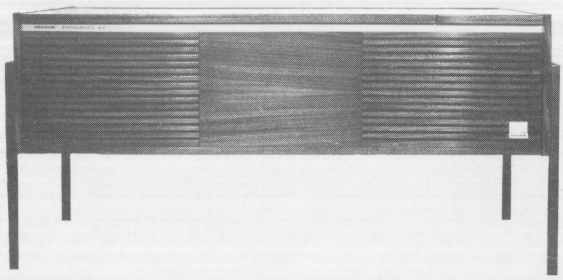
11-98A



11-104



11-109



11-114

DESCRIPTION:

Models 11-98A, 11-104 and 11-109 are fitted with identical chassis types. Model 11-114 chassis is basically identical, with minor differences, which are:—
The addition (to each channel) of R10 a and b, R11 a and b, R23 a and b, and C13 a and b (refer 11-114 circuit).
The change of value (to each channel) of R12 a and b and R13 a and b.
The deletion of R10, R11, C13, C14, J1, J2 (refer 11-109 circuit).

ITEM	11-98A	11-104	11-109	11-114
Changer	BSR UA 25	BSR UA 15 SS2A	BSR UA 15 SS2A	BSR UA 25
Cartridge	C1	C1	C1	C1
Stylus	ST4	ST4	ST4	ST3
Pressure	6 gm.	6 gm.	6 gm.	6 gm.
Speaker/s	2 x MSP 8Tax 15ohm	Rola C8MX/15ohm	Rola C8MX/15ohm	2 x 8S1X 15ohm

MAINS SUPPLY:

200 to 250 volts, 50 Hz, A.C. only (240V primary tapped at 220 volts). If operated on a 40 or 60 Hz supply, the changer motor must be replaced; and on 40 Hz, a 100 20W resistor should be inserted in series with the 240V tap on the power transformer.

AERIAL:

Ferrite rod, 8" x 3/8". In difficult reception areas, re-location of the receiver for best signal pick-up may be desirable due to the directivity of the ferrite rod. Alternatively, an external aerial may be connected to the red lead at rear of cabinet. To be more effective than the ferrite rod, the external aerial should be 25-30 feet long.

EARTH:

A separate earth is not generally needed because a three-core power flex is used. If the mains earth is not a satisfactory radio earth, a separate earth may be connected to the black lead at rear of cabinet.

TUNING RANGE: 525 to 1650 KHz.

INTERMEDIATE FREQUENCY: 455 KHz.

ALIGNMENT: Conventional. Tracking Points are at 600 and 1500 KHz.

POWER OUTPUT: 3 Watts at 1000 Hz at 10% Distortion.

ITEM	11-98A	11-104	11-109	11-114
Cabinet Length	42″	48″	49″	43⅝″
Depth	16¼″	17¼″	17⅛″	17¾″
Height (Inc. Legs)	28½″	27½″	26¾″	20⅜″
Weight (lb.)	112	156	140	85

INSTALLATION:
This receiver should be installed and serviced in conformity with the relevant SAA Safety Standards (e.g. Australian Standard CC8-1962, C159-1959, C100-1953).

SERVICE ACCESS:
WARNING: SWITCH OFF AND DISCONNECT POWER LEAD FROM MAINS SUPPLY SOURCE BEFORE HANDLING INTERNAL METAL WORK, WIRING OR COMPONENTS.

MODELS 11-98A, 11-104, 11-109
VALVE ACCESS:
Remove Cabinet back only.

RECORD CHANGER REMOVAL:
Remove cabinet back and disconnect all leads to changer. With transit screws fully in, reach under the changer and turn the clips on the ends of the transit screws until they lie vertically. Lift off changer.

DIAL LAMP REPLACEMENT:
With the chassis removed as described below, the dial lamps are accessible. If necessary, loosen the die-cast escutcheon.

DIAL CORD REPLACEMENT:
This requires removal of the die-cast escutcheon and the back dial backing plate. The dial cord lay-out is shown on the circuit diagram.

MODEL 11-98A
CHASSIS REMOVAL:
Disconnect from power point. Raise lid of record compartment. Remove screw in upper cabinet back rear of radio compartment. Lift timber flap at rear of radio dial. Remove three screws securing chassis to cross-rail at rear of dial. Lift rear of control panel, slide chassis back about ¼″, lift out, turn wiring side up and rest front panel on cross-rail with power transformer on wall at left of radio compartment. This will not damage the polish on the cabinet.

MODELS 11-104, 11-109
CHASSIS REMOVAL:
Disconnect chassis from power point. Raise lids of radio and record compartments. Remove three screws in upper cabinet back (above the top edge of the masonite back) at rear of radio compartment. Lift and remove timber flap at rear of radio dial, by inserting fingers in the slot at rear of cabinet and pushing upwards the back bottom edge of the timber flap until a grip is obtainable at its lefthand end. Remove two screws securing chassis to cross-rail at rear of dial. Lift rear of control panel, slide chassis back about ¼″, lift out, turn wiring side up and rest chassis diagonally on cross-rails and woodwork, suitably protecting the latter against damage.

MODEL 11-114
VALVE AND CHASSIS ACCESS:
Ease of service access has been achieved by making the speaker baffle removable.
(a) Undo two screws securing the bottom of the baffle to brackets attached to the front edge of the under-face of the cabinet. Ease the bottom of the baffle forward to clear the brackets, allow the baffle top to drop out of its retaining channel in the metal trim along the cabinet top front, and remove the baffle. This exposes the loudspeakers.
(b) To expose the chassis, remove one screw in the metal trim approximately 1½″ up from the top of the righthand speaker and two screws (4″ apart) just above the vent panel at the rear of the cabinet at approximately the same height as the front screw. Lift off the timber section of the top of the cabinet, adjacent to the lid at the righthand end. The valves are now accessible.
(c) The chassis may be removed by undoing two screws in the righthand vertical face of the record changer compartment, and one screw at the back of the cabinet adjacent to the middle of the vertical side of the vent panel mentioned in 'b' above. For complete chassis removal, remove the lefthand speaker from the baffle (four S.T. screws) for access to the pin-jacks by which the speaker leads are connected. Disconnect the record changer A.C. supply leads at the connector block mounted on the chassis; and the audio leads by withdrawing the plugs from the appropriate sockets.

RECORD CHANGER REMOVAL:
Remove speaker baffle as in 'a' above. Disconnect appropriate leads. Screw transit screws fully in. Reach in through aperture in the front of the cabinet and turn transit screw clips so that they lie vertically. Lift off changer.

DIAL LAMP REPLACEMENT:
Remove chassis as described above, the dial lamp sockets are now accessible and may be withdrawn from their retaining grommets.

DIAL CORD REPLACEMENT:
Remove chassis as described above. Remove control knobs. Remove the metal trim on the control knob side of the dial scale by undoing three screws on the underside of the trim. Remove the dial lens by sliding it out of the channel in the remaining piece of metal trim. Lift dial pointer carrier off the carrier mount and position pointers vertically. Undo four screws, one at each corner of the dial scale housing, and remove housing. As the dial drive mechanism is now accessible, refer to dial cord layout drawing on the circuit diagram attached hereto.

ELECTRICAL PARTS LIST

MODELS 11-98A, 11-104, 11-109, 11-114

No.	DESCRIPTION			
R1	47K	½W	BTS	20%
R2	39K	1W	BTS	20%
R3	470K	½W	BTS	20%
R4	27K	1W	BTA	20%
R5	2.2M	½W	BTS	20%
R6	470K	½W	BTS	20%
R7	47K	½W	BTS	20%
R10*				
R11*				
R12*				
R13*				
R14	220K	1W	BTA	20%
R15	220K	1W	BTA	20%
R16	100K	½W	BTS	20%
R17	100K	½W	BTS	20%
R18*				
R19*				
R20	10K	½W	BTS	20%
R21	10K	½W	BTS	20%
R22	5.6K	1W	BTA	20%
R23*				
R24	10M	½W	BTS	20%
R25	100ohm	1W	BTA	10%
R26	270K	½W	BTS	20%

No.	DESCRIPTION			
R27	1.5K	2W	BTB	10%
R28	10K	1W	BTA	10%
R29	1M	½W	BTS	10%
R30	220ohm	2W	BTB	10%

No.	DESCRIPTION	
L1	Compensating Coil	34-2206
L2	Aerial Coil	14-4082
L3	Oscillator Coil	14-3804
IFT1	I.F. Transformer	24-18
IFT2	I.F. Transformer	24-18
T1, 2	Spkr. Trans. 7K/15ohm	18-6700
T3	Power Trans.	18-0109

No.	DESCRIPTION	
C1	5-50pF Mica Trimmer Type CWO	Ducon
C2	3-30pF Wire Trimmer	Philips
C3	Tuning Gang 63-4721	M.S.P.
C4	50pF 500V Mica MS 10%	Ducon
C5	250pF 500V Mica MS 10%	Ducon
C6	.047µF 400V Paper 20%	Ducon
C7	.047µF 400V Paper 20%	Ducon
C8	.047µF 125V Polyester 20%	Philips
C9	100pF 500V Mica MS 10%	Ducon
C10	.0047µF 400V Polyester 20%	Ducon
C11		
C12		
C13*		

No.	DESCRIPTION	
C14*		
C15	100pF 600V Styroseal 10%	Ducon
C16	100µF 4V Electro 10%	Philips
C17	150pF 600V Styroseal 20%	Ducon
C18	150pF 600V Styroseal 20%	Ducon
C19	.033µF 400V Polyester 20%	Philips
C20	.033µF 400V Polyester 20%	Philips
C21	.022µF 400V Polyester 20%	Philips
C22	.022µF 400V Polyester 20%	Philips
C23	.0047µF 400V Paper 20%	Ducon
C24	.0047µF 400V Paper 20%	Ducon
C25	.0022µF 1000V Paper 20%	Ducon
C26	.0022µF 1000V Paper 20%	Ducon
C27	.022µF 125V Polyester 20%	Philips
C28	.047µF 125V Polyester 20%	Philips
C29	50µF 300V Electro	Ducon
C30	16µF 300V Electro	Ducon
C31	8µF 300V Electro	Ducon
C32	32µF 300V Electro	Ducon

*SEE LIST TABULATED FOR MODEL TYPES

ITEM	11-98A	11-104	11-109	11-114
Dial Glass	69-6339	69-6339	69-6339	69-9300
Radio-Gram SW	17-4220	17-4220	17-4220	17-6989
Jacks J1 and J2	Gold ring RM2/C	Gold ring RM2/C	Gold ring RM2/C	—
Control Knobs	20-6360	20-6360	20-6360	20-7010A
Knob Inserts	16-7467	16-7282	16-7467	16-7467.
Volume Pot. (R12)	32-4720	32-4720	32-4720	32-9313
Tone Pot. (R19)	32-4221	32-4221	32-4221	32-6987
Balance Pot. (R18)	32-4223	32-4223	32-4223	32-9319
R10	2.2M ½W Carbon	2.2M ½W Carbon	2.2M ½W Carbon	100K ½W Carbon
R11	2.2M ½W Carbon	2.2M ½W Carbon	2.2M ½W Carbon	470Ω ½W Carbon
R13	2.7K 1W Carbon	2.7K 1W Carbon	2.7K 1W Carbon	2.2K 1W Carbon
R23	5.6K 1W Carbon	5.6K 1W Carbon	5.6K 1W Carbon	68K ½W Carbon
C13	56pF 500V Mica	56pF 500V Mica	56pF 500V Mica	2200pF Polyester 400V
C14	56pF 500V Mica	56pF 500V Mica	56pF 500V Mica