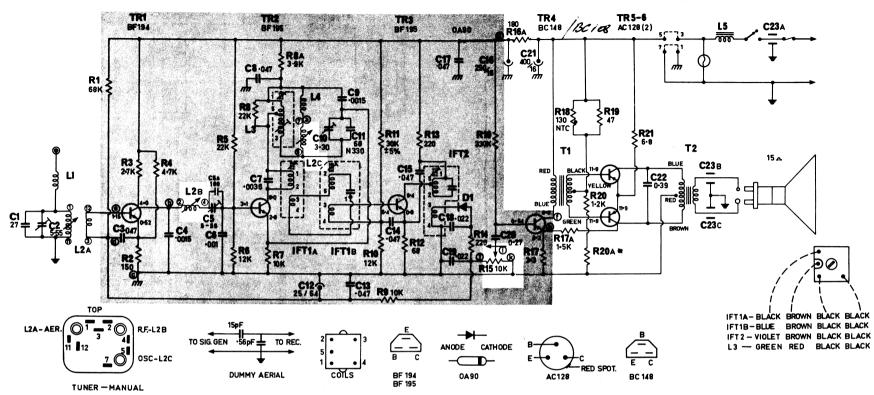


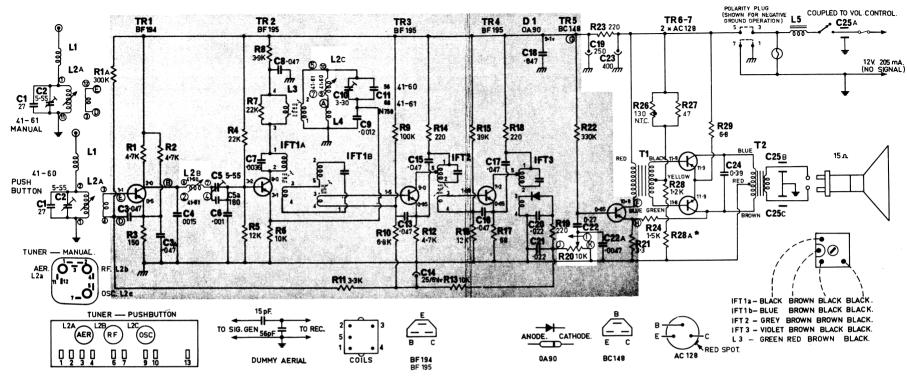
- DENOTES EARTH END OF CAPACITOR.

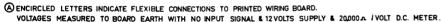


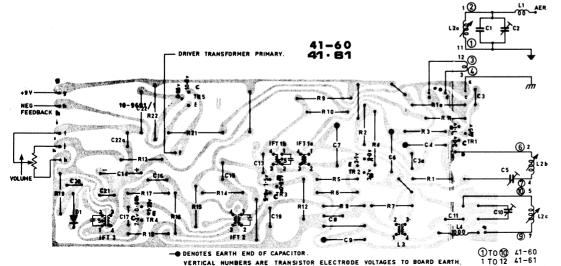
② ENCIRCLED LETTERS INDICATE FLEXIBLE CONNECTIONS TO PRINTED WIRING BOARD.
VOLTAGES MEASURED TO BOARD EARTH WITH NO INPUT SIGNAL & 12 VOLTS SUPPLY & 20,000 A VOLT D.C. METER.

# \* VALUE SELECTED TO GIVE 12 mA COLLECTOR CURRENT (NO SIGNAL) AT T2 CENTRE TAP.

			RESIST	ORS			41-5	9 ELECT	RICAL PA	RTS L	ST
			Cct. No.	Value	±%	Wattage	CAP	ACITORS			
MISCELLANEOUS ELECTRICAL  Driver Transformer Output " MSP 18-6194 MSP 18-6193 Astor 4048/025/02 90-9695 IFT 1b C2651-000 IFT 1b C2651-000 IFT 2 C2651-007 Osc Shunt Padder Series Padder	Aerial Socket Lead Assy. Button Insulator Pointer Assembly Dial Lamp Dial Backing Plate Dial Escutcheon Dial Scale Control Knobs	ANICAL 90.7655 90.8715 20.5528 90.8717 16.0.0,2	1 2 3 4 5 6 7 8 8 8 9 10 11 12 13 14 15 16 16 16 17 17 17 18 19 20 20 20 20 21	330K 180 3,3 1,5K 130 47 1,2K selecte	10 10 10 10 NTC 10	1 % % % % % % % % % % % % % % % % % % %	Cct No. 1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 25 25 25 25 25 25 25 25 25 25 25 25 25	Value 27 5.55 .047 .0015 5.55 180 .001 .0036 .047 .017 .022 .250 .250 .250 .250 .250 .250 .250	*% 10	16 25 25 25  16v 160	Type NPO style "C" NSP 35130 Redcap style "B" Styrossel Ducon type CWA/O Styrossel Redcap style "C" N330 Ducon type CW NPO Electrolytic Redcap style "B" Electrolytic Redcap style "B" Electrolytic Redcap style "B" Electrolytic Type CBB/3







*	VALUE	SELECTED TO	GIVE	12 mA	COLLECTOR	CURRENT	(NO :	SIGNAL)

*	VALUE	SELECTE	D TO GIVE	12 mA CO	LECTOR C	URRENT	(NO SIGNAL)		
	AT T2	CENTRE	TAP.						
	RESISTO	ORS 41-60, 41	-61.		CAPACITOR	S 41-60, 41-	61.		
	Cct No.	Value	Tolerance	Wattage	Cet. No.	Value	Tolerance	Volts Wkg.	Type
	R1, 2, 12	2. 47K	± 10%	*	C1.	27	± 10%	_	NPO Disc.
	Ria	300K	± 5%	1	C2	5-55	_	_	MSP 36130
	R3	150	± 10%	*	C3, 3e, 8, 13	.047	+ 80%	25	Ceramic disc
	R4, 7	22 K	•	÷.	C15,16,17,18	a Ĵ	- 20%		
	R5. 16	12K			C4	.0015	± 10%	400	Styrossal
	R6, 13	10K			C6	5-55	-	_	Ducon CWA/0
	R8	3.9K			C5e	180	± 5%	630	Styrossel
	R9	100K	± 5%	1	C6	.001	± 10%	400	Styrossel
	R10	6.8K	±10%	ж.	C7	.0036	± 5%	50v	Styrossel
	R11	3.3K		ï	C9	.0012	± 10%	400v	Styrossel
		19,23 220			C10	3-30	_	_	Ducon CW.NPO.
	R15	39K			C11 (41-60)	56	± 5%	-	Ceramic N750
	R17	68	••		(41-61)	68	± 5%	-	Ceremic N330
	R20		Volume/On-off	Part No. 32-969	C14	25µF	_	6.4	Electrolytic
	R21	3.3	± 10%	% W.W.	C19	250µF	-	16	Electrolytic
	R22	330K	± 10%	1	C20, 21	.022	± 20%	25	Ceramic disc
	R24	1.5K	± 10%	<b>%</b>	C22	0.27	+ 80%-20%	25	Ceramic disc
	R26	130	Thermistor	B8/320/01/A130	E C22a	.0047	+80%20%	25	Ceramic disc
	R27	47	± 10%	%	C23	400µF	_	16	Electrolytic
	R28	1.2K			C24	0.39	± 10%	160	Polyester
		Refer oct. note			C25e, b, c	.001	+100%-0	-	Ducon CBB/3
	R29	6.8	± 10%	% w.w.					
	MISCEL	LANEOUS E	LECTRICAL		MISCELLAN	EOUS MEC	HANICAL		
	Descript	ion	41-6		Description			41-60	41-61
	L1 R	.F. Choke	I F	C Type CLA	Polarity Plug			90-76	
	L2a, b, c. Permeability Tuner 90-9696 90-9695				Aer. Socket Lead Assy. 90-8715				
	L3 Osc. Shunt Padder CZ652-015			Aer. Lead Cl	amp.		36-9689 16V.0-2A, BA9S (Phillips)		
	L4 0	ec. Series Pade			Dial Lamp				
	L5 F	ilter Choke	40	48/025/02	Dial Backing	Plate		16-8688	16-8742
	1FT1a9	IF. Transform	ner C	Z651-000	Dial Escutch	eon		90-8749	90-8789A
	1FT1b*		C	2651-006	Dial Scale			69-9693 (2	
	1FT2 '		C	Z651-018	Pointer Assy			90-8736	90-8670
	1FT3 '		C	Z651-007	Light Guide			20-8733	20-8734
		river Transfor	rmer 18	3-6194	Dial Spring			-	16-8745
		utput Transfo	rmer 18-9	698 18-6193	Control Kno	bs		20-85	
								20.61	

K8

## Kriesler 41-59, 60 & 61

41-59

41-60

41-61



#### CAR RADIO SERVICE MANUAL

INTRODUCTION: This manual includes data on models 41-59, 41-60 and 41-61. Earlier models were covered in:-

Service Manual No. 113, Model 41-58. Service Manual No. 112, Model 41-57.

Service Manual No. 111

and Frrata Sheet Model 41-56. Service Manual No. 103, Model 41-49, Errata Sheet to 41-44. Model 41-44A.

Models 41-48.41-44.41-35 (with variants). 41-33 and 41-30 were covered in manuals identified by their respective model numbers.

#### DESCRIPTIONS:

Model 41-59 is a six-transistor, manually tuned. single unit car-radio. Model 41-60 is a seven transistor, press-button

or manually tuned, single unit car-radio.

Model 41-61 is manually tuned but otherwise

basically identical with Model 41-60. Circuit differences are only in the numbering of the variablytuned r/f circuit numbers; component differences are only in the capacity value of C11 and the inductance value of L4 (which has different Part Numbers).

#### FREQUENCY RANGE: 520 to 1620 KHz. INTERMEDIATE FREQUENCY: 455 KHz.

SUPPLY VOLTAGE: 12 volts D.C. only, of either polarity. The external polarity plug should be inserted so that the notch on its perimeter lines up with the "+" sign on the case, for supply from a positive-ground car battery; and with the "-" sign for supply from a negative-ground battery.

CONSUMPTION: At 12 volts, no signal input: - 41-59, 195mA. 41-60 and 41-61, 215mA.

SPEAKER: 15\( \Omega\$ V.C. impedance at 400 Hz. Size and type depend on installation requirements; universal installation kit speaker is 7 x 5 MSP type 750A/15.

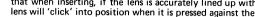
POWER OUTPUT: 2 watts at 400 Hz (14 volts supply). WEIGHT: 3% lb.

HIGH CAPACITY AERIAL SYSTEM: Inability to peak the aerial trimmer after installation could indicate that the aerial feeder capacitance is excessively high. To overcome this-

- 1. Remove the 27pF aerial shunt capacitance C1: or
- 2. Reduce the feeder cable length; or
- 3. Insert a series capacitor in the aerial circuit; however, this will reduce the signal input to the

Note: The aerial trimmer should be finally peaked on a weak transmission around 1500 KHz with the receiver installed in the car and the aerial fully extended.

DIAL SCALES: Models 41-59 and 41-61:- One dial scale is fitted, marked with the callsign letters of all stations within an 80 mile radius of, and including, all Australian capital cities.



80 mile radius of, and including, all Australian capital cities.

To change dial scales, remove the screw at the lefthand end of the dial lens. Utilising screwhole, pull this end towards you to clear lens aperture. Move lens bodily to the left so that the captive righthand end is clear of the lens aperture. Insert alternative lens in reverse sequence of the foregoing. Note that when inserting, if the lens is accurately lined up with the lens aperture, the lefthand end of the lens will 'click' into position when it is pressed against the mounting-screw hole.

MODEL 41-60: Two dial scales are supplied, marked with the callsign letters of all stations within an

### ALIGNMENT PROCEDURE

Sig. Generator connected to	Sig. Generator Frequency	Align for Max. Output	Remarks
Converter base through 0.1 uF	455 KHz	IFT 3 (41-60, 41-61) IFT 2 IFT 1B IFT 1A	Tuner core carriage fully out
REPEAT UNTIL M	IAXIMUM OUTPUT IS OBTAI	NED	
Aerial socket through dummy aerial	1620 KHz	Osc. Trimmer C10	Tuner core carriage fully out
Aerial socket through dummy aerial	1500 KHz	R.F. Trimmer C5 Aerial Trimmer C2	Dial pointer at 1500 KHz approx.
Aerial socket through dummy aerial	600 KHz	Padder Coil L3	Dial pointer at 600 KHz approx. Rock tuner

#### SERVICE ACCESS TO COMPONENTS:

COVER: Remove 8 S.T. screws.

PRINTED WIRING BOARD: Remove 3S.T. screws from foil side of board. When screwing board back, ensure that the shielded leads are not caught under I.F. transformer cans or other tall components.

PERMEABILITY TUNER: Remove 4 S.T. screws securing front of tuner to chassis and lift vertically after disconnecting leads, light guide and manual drive. MODEL 41-60

VOLUME CONTROL ASSEMBLY: The chassis has a slotted hole which enables easy withdrawal of this component.

LIGHT GUIDE: Lift upwards to disengage from dial lamp bracket and withdraw from front of chassis. When replacing, ensure that the guide projects 5/8" from the dial back plate and that the other end does NOT touch the dial lamp. MODEL 41-60

DRIVER TRANSFORMER: Remove printed wiring board and remove 2 S.T. screws securing the transformer assembly to the chassis.

OUTPUT TRANSFORMER: As for Driver Transformer but note that a slightly different mounting bracket is used. Models 41-59 and 41-61:- The transformer is soldered to the chassis.

POWER TRANSISTOR REPLACEMENT: Should the power transistors require replacing, always use a matched pair and adjust the standing collector current at the output transformer centre tap to 12mA (no signal condition) by connecting an appropriate value of resistance (R20A/41-59, R28A/41-60 or 41-61) in the bias circuit.