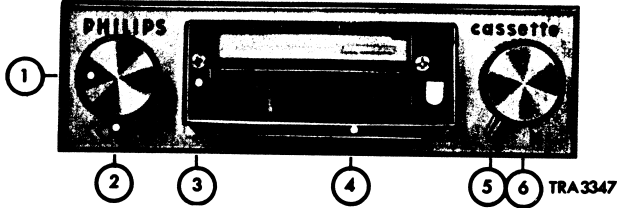


PHILIPS Service

CASSETTE CARRADIO

22RN582/15



CONTROLS

- | | | | |
|---|------|--------------------------------|----------------|
| 1) Volume control and on/off switch | R111 | 4) Ejector button for cassette | SK-C |
| 2) Accelerated winding and rewinding 6 Tuning | SK-D | 5) Wave range selector | SK-A |
| 3) Playback button (depress) | SK-B | 6) Tuning | S1, S2, S5, S6 |

SPECIFICATION RADIO:

Dimensions 176x44x132 mm
 I. F. 452 kHz (100)
 460 kHz (119)
 470 kHz (115)
 Consumption Radio without signal 190 mA
 Recorder without cassette 250 mA
 Output impedance 4 Ω
 Output power 3 W (at 14.4 V)
 Voltage 12 V - ⚡

SPECIFICATION RECORDER:

Tape speed 4,75 cm/sec
 Tape width 3.8 mm
 Track width 1.5 mm
 Number of tracks 2

WAVE RANGES:

LW : 150 - 290 kHz (2000 - 1035 m)
 MW : 512 - 1622 kHz (585.9 - 185.2 m)

TRANSISTORS

TS1 - BF194	TS105 - AD161
TS2 - BF195	TS106 - AD162
TS3 - BF195	TS201 - BC148
TS101 - BC149	TS202 - BC148
TS102 - BC148	TS301 - BC148
TS103 - BC149	TS302 - AD162
TS104 - AC128	

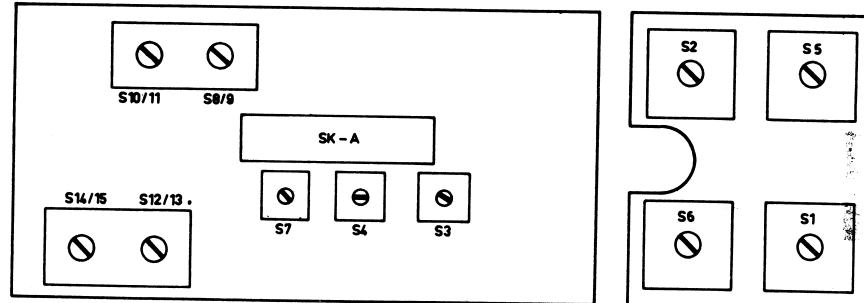
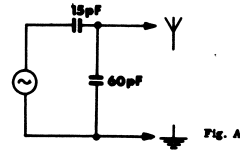
DIODES

GR1 - AA119
GR2 - AA119
GR3 - AA119
GR4 - BZ783
GR301 - OA90
GR301 - BA114
GR302 - BA114
GR303 - BA114

Serv-o-Mecum TE-a-1	Wave range Golffebied Gamme d'ondes Wellenbereich Margen de ondas	Tuning Afstemming Sintonisation Abstimmung Sintonia	Signal Signal Signal Signal Señal	Applied to Toesgevoerd aan Appliqué à Zugeführt an Aplicanda a	Trim Afstregelen Réglage Abgleichen Ajustasee	Indication Aanzwijzing Indicación Anzeige Indicación
IF-MF-ZF-FI	MW-MG-PO-OM	Min. L 3)	458 kHz (/00) 1) 460 kHz (/19) 470 kHz (/15) via 33 kpF	b-TS8 ⚡ b-TS8 ⚡	S12/13, S14/15 S8/9, S10/11, S13/13	Max. output
	MW-MG-PO-OM	Max. L 3)	506 kHz	6) ⚡	S6 4)	Max. output
		5)	640 kHz		S5, S1 4)	
			1450 kHz		C7	
	LW-LG-GO-OL	Max. L 3)	147 kHz	6) ⚡	S7	Max. output
		5)	170 kHz		S2	
			290 kHz		S3	
			1 MHz		S4	

1. Turn in the cores S14/15, S10/11 and S8/9
2. Corresponds to minimum self-inductance of the tuning unit
3. Corresponds to maximum self-inductance of the tuning unit
4. Put C7, being mounted in the aerial socket, in the intermediate position
5. Tune the set
6. Apply the signal to an aerial socket via an artificial aerial (Fig. A).

Note: C432 serves to adapt the car aerial to the set. Slide out the aerial completely and tune the set to a weak station near 1000 m (MW). Tune C432 by ear to max. output power.



MECHANICAL REPAIR HINTS AND ELECTRIC ADJUSTMENTS OF THE RADIO SECTION

Removing the HF and IF unit

- Remove the side bracket on this unit and loosen the two screws 134.
- Unsolder the aerial connection and the connection wires to the LF print.
- Loosen the cord drive mechanism and remove the mounting bracket 343.
- Next, remove the unit in backward direction.

Adjusting the quiescent current of output transistors TS105, TS106

Connect an ammeter between the collector of TS105 and the "G".
 After a heating-up time of approx. 3 mins, the collector current should be 50 mA. This can be adjusted with R121.

Determining the value of R24 when replacing TS3

If TS3 is replaced by a BF195, the value of R24 should be adapted so that the voltage across R18 is between 1.6 V and 2.1 V.
 The value of R24 should be between 1,5 and 15 kΩ.
 If necessary, change the value of R14 into 56 kΩ.