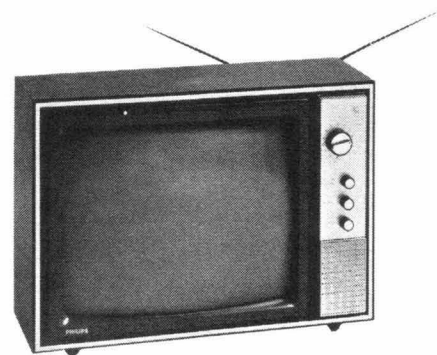


**TELEVISION
02TN230**

SERVICE MANUAL



Model TN230 is a 20-inch transportable receiver, similar to model 02 TN211 and employing the same standard 12S chassis.

Reference should be made to the 12S service manual for all electrical and mechanical parts other than those listed on this sheet and for the relevant functional descriptions, p.w. board layouts etc.

CHASSIS REMOVAL PROCEDURE

To remove the subchassis, switch off power and disconnect power plug from mains supply point. Separate aerial assembly panel from the cabinet back. (2 screws in keyhole slots).

Remove cabinet back.

Remove all control knobs from front panel.

Unplug video lead from ZL002 and 12 pin plug from power supply tower.

Back off subchassis retaining screws, one top and one bottom.

Withdraw complete subchassis from front mounting spigot.

Disconnect speaker lead spade clips.

ELECTRICAL PARTS LIST

CAPACITORS

C	Description	V.W.	Tol. \pm %	Code No.
627	4K7 Ceramic	500	+50-10	2222 563 03472

RESISTORS

R	Description	W.	Tol. \pm %	Style or Code No.
601	100R Carbon	0.2	5	CR 16
614	330R Carbon	0.2	5	CR 16
615	1K8 Carbon	0.2	5	CR 16
619	500R Carbon pot. Taper A (Contrast)			CZ 034 181
627	50K Carbon pot. Taper C (Vol. + On/Off) (with push-pull DPST On/Off switch)			CZ 032 064
650	120K Carbon	0.5	10	CR 37
651	250K Carbon pot. Taper A (Brightness)			CZ 034 182

INDUCTORS

LS601	Loudspeaker (Rola 53D03/277/15)			CZ 162 542
V351	Picture Tube 20"			A50-120W

PHILIPS

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JULY, 1973.

MECHANICAL PARTS LIST

<u>DESCRIPTION</u>	<u>CODE NUMBER</u>
Aerial Bracket Assembly	CR 262 586
Incl. Bracket	CS 233 743
Aerial Terminal (2x)	CZ 376 205
Telescopic Aerial (2x)	CR 109 053
Anti-glare Screen Assembly	3102 107 86141
Incl. Screen	3102 304 28011
Pad (2x)	CS 424 365
Cabinet Assembly (Teak)	3102 307 95101
Cabinet Back	CS 462 850
Control Panel Assembly	3102 307 86152
Incl. Control Panel (metcal)	3102 305 00231
Speaker Grille	3102 305 00241
Earth Strap Assembly	CZ 358 614
Spring for above	CS 210 052
Knob Assembly, Channel Selector	3102 307 52052
Knob Assembly, Fine Tuning	3102 307 52042
Knob Assembly, Function (3x)	3102 307 52032
Mask Assembly	CR 029 424
Spacer (for F/T Knob)	CS 284 230