

ENGINEERING INSTRUCTION NUMBER 336

RECEIVER MODIFICATIONS FOR USE WITH A V.C.R.

BANG & OLUFSEN

2600 - 2800 - 3000 - 3200 chassis (i) Change C423 to 1nF
3000 chassis type 3601 (ii) Change C428 to 10nF
(iii) Change C421 to a value between 100nF and 200nF to give optimum results

3230 - 3231 - 3232 - 3233 no changes normally required

2600 - 2800 - 3000 - 3200 chassis

Further to the above information in cases of difficulty after the suggested modifications have been carried out, R422 (10k Ω) should be replaced by a potentiometer of value 50k Ω , then adjusted for optimum setting.

Note: On model number 3601, R111 (10k Ω) should be replaced by a 50k Ω potentiometer.

FINLUX PEACOCK C.T.V. RECEIVER

The following component values should be changed -

C5102 changed value from 2n7 to 3n3
C5103 changed value from 3n3 to 2n7
C5104 changed value from 2u2 to 680n
C5105 changed value from 1n8 to 3n3
R5105 changed value from 470 Ω to 330 Ω
R5108 changed value from 1k8 Ω to 8k2 Ω

G.E.C.

2036 - 2037 - 2110 - 2111 - 2112 Change R414 to 12k Ω
2113 - 2118 - 2119 - 2114

2040 - 2041 - 2073 - 2074 No changes normally required
2100 - 2103 - 2108 - 2115

All transistor chassis with 6-channel tuner Change R414 to 12k Ω
All transistor chassis with 8-channel tuner Select channel 8

GRUNDIG

5010 - 5011 - 6010 - 6011 - 1510 The VCR must be tuned-in on Position 7 of the receiver

Note: Should line sync problems exist on receivers fitted with a horizontal module showing a yellow label "MIT VCR DIODE", any additional diode mounted in the connecting lead to pin 12 should be short-circuited.

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HITACHI

PAL2 chassis
(CAP 160, CP 180, CNP 190)

- (i) Change C705 to 22nF
- (ii) S/c C736
- (iii) Fit a 390pF capacitor in parallel with R709
- (iv) Change C706 to 22nF
- (v) Change R713 to 33 Ω
- (vi) Change R710 to 12k Ω
reset line hold as necessary

I.T.T.

CVC5 - CVC5/8 - CVC8 chassis

- (i) Change C288 to 820 pF
- (ii) Change C290 to 100 nF
- (iii) Change R395 to 47k Ω

LUXOR

110° chassis

Change R738 to 1.8k Ω

NORDMENDE

90° colour chassis

- (i) Change R440 to 680k Ω
- (ii) Change C440 to 15 μ F
- (iii) Change C439 to 1nF

110° colour chassis

- (i) Change R448 to 680k Ω
- (ii) Change C448 to 15 μ F
- (iii) Change C449 to 1nF

Note: For R440 and R448 respectively, a 1M Ω variable potentiometer can be used.

PHILIPS

210 and 300 chassis

No changes normally required

"T4" chassis

- (a) Change the value of R758 to 680 Ω (code number 110 51103)
- (b) Change the value of C570 to 1nF (code number 120 41109)
- (c) Change the value of C567 to 15 μ F 63V (code number 124 20356)
- (d) Change the value of C572 to 3.3 μ F (code number 120 41121)
- (e) Connect a wire link across R757
- (f) Short circuit junction C566/R756 to chassis
- (g) If necessary, readjust coil U464 for optimum picture on playback

.....contd.

PHILIPS (contd.)

"TS7" chassis

- (a) Connect a $390\Omega \frac{1}{8}w$ resistor (code number 110 63096) in parallel with R215
- (b) Connect a shorting link across R240
- (c) Connect a $10k\Omega \frac{1}{8}w$ resistor (code number 110 63134) in series with a $22\mu F$ 25V electrolytic capacitor (code number 124 20476) across R213 - the negative end of the capacitor must be connected to R213/R217
- (d) Connect an 82nF 50V capacitor (code number 121 40058) across C197
- (e) Open circuit the connection between pin 5 of U4 and the junction R240/R241 by cutting the print near pin 5 of U4
- (f) Connect a $4k7\Omega \frac{1}{8}w$ resistor (code number 110 63125) between pin 5 of U4 and the print earth
- (g) Connect the inner core of a screened lead to the junction S37/C224. Connect the screening to the print earth at the same place as the end of C224.
- (h) Connect a series circuit consisting of a $1k\Omega \frac{1}{8}w$ resistor (code number 110 63107) and a 68nF 250V capacitor (code number 121 41156) between pin 5 of U4 and the inner core of the free end of the screened lead - Note: the screening should be left unconnected at this end of the lead

"K70" chassis

- (i) Change R1170 to $82k\Omega$
- (ii) Change R1172 to a $47k\Omega$ preset control
- (iii) Change C758 to 220nF

Commencing with the preset control turned to maximum resistance, slowly adjust whilst playing back a pre-recorded tape until line stability is obtained.

"G6" chassis

- (i) Change R4076 to $82k\Omega$
- (ii) Change R4078 to a $47k\Omega$ preset control
- (iii) Change C4012 to 220nF

G8 chassis

- (i) Remove C4496 and C4498 from T.B. panel
- (ii) Fit a $15\Omega \frac{1}{2}watt$ resistor in series with a $10\mu F$ capacitor - observe polarity - in place of C4496
- (iii) Fit a $10k\Omega \frac{1}{2}watt$ resistor across pins 3 and 5 of IC 2001 on the I.F. panel

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PHILIPS (contd.)

G8 and G9 chassis
with VCR tuner button

No changes normally required

PYE

691/693 chassis

- (i) Change R36 to 15k Ω
- (ii) Change C203 to 18OpF
- (iii) Change C202 to 82OpF

697 chassis

- (i) Change R36 to 15k Ω
- (ii) Change C203 to 18OpF
- (iii) Change C202 to 82OpF

713/715 chassis

S/c R621 (82k Ω) by linking
points Y1 and Y2

RANK RADIO INTERNATIONAL

BC6401

Select button 6 marked VR

CTV1322, CV2219, CTV1526, CV2615,
MC6309, MC6409, F22B113, F26B114,
AC6312 and AC6412

Please refer to Rank Service
Dept. Tel: Ware (Herts)
3966

Other CTV models

No changes normally required

SABA

Series "E"

- (i) Change R504 to 47k Ω
- (ii) Change C503 to 2.2nF
- (iii) Change C504 to 33nF

Series "F" and "G"

- (i) Change R633 to 47k Ω
- (ii) Change C633 to 2.2nF
- (iii) Change C634 to 33nF

T6715 and ST6735

Contact SABA service department
for details

SIEMENS

FC211 - FC365 - FC375 - FC376

No changes normally required

SOBELL

1040 - 1060 - 1100

No changes normally required

TANDBERG

CTV1

Modified sync panel available
from UK agents: Farnell
Tandberg of Leeds

CTV2

No changes normally required

.....contd.

TELEFUNKEN

708 chassis

- (i) Fit a 100k Ω resistor in parallel with R434
- (ii) Fit a 120k Ω resistor in parallel with R440
- (iii) Fit a 10nF capacitor in parallel with C434

Note: After modification check line frequency and readjust if necessary.

709 and 710 chassis

- (i) Fit a 27k Ω resistor in parallel with R452
- (ii) Fit a 3.9k Ω resistor in parallel with R453
- (iii) Fit a 10nF capacitor in parallel with C453

711 chassis

No changes normally required

THORN

Monochrome TV
1500

Reduce C51 (1 μ F) to 0.47 μ F
Increase R57 (15k Ω) to 47k Ω

Colour TV
2000 series

Reduce C7 (25 μ F) to 4.7 μ F

3000, 3500

Reduce C506 (22 μ F) to 4.7 μ F

8000, 8000A, 8500, 8800

Reduce C423 (10 μ F) to 2 μ F

9000

Reduce C419 (100 μ F) to 6.8 μ F
and add a 33 Ω resistor in series with C419 and LR3

2726

Change C316 (0.47 μ F) to 0.15 μ F
Remove R327 (390 Ω)
Add 680 Ω resistor in series with R193 (680 Ω) and from the junction of these two 680 Ω resistors, add a lead to tape switch S301 contact behind earth of existing screened lead

TCS/SV/10.10.78

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Receiver Modifications for use with a VCR

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