RECTIFIER DC/DC CONVERTER +12V UREG POWER SUPPLY OJ2 9 O J 2 13 ₽<sup>55</sup> LOJ2 17 OJ2 19 OJ2 12 OJ2 14 OJ2 16 OJ2 18 부 다 #7880 OJ2 1 AC —0J2 3 NEGATIVE BUCK CONVERTER CRB 0 15 —0J2 ₅ C15 338P —0J2 б —0J2 7 GND V48 LT1878 —0J2 23 OJ2 24 OJ2 25 OJ2 26 -12V UREG SYNCHR AMPL VOLTAGE REGULATORS +12V UREG T CBB C(92-93) R91 IK3 CLK9 > -12V UREG \_12V FIRST USED IN: PM 5644 HD PCB REF.: 4008 117 0554 3 2 95-06-16 POWER SUPPLY 4008 109 7818 4 SH SH 130 - 1 CHECK: NAME: SNJ/JML ABCD 78182.5CM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY DAT.92-05-20 A3L

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GENLOCK LOGIC 00 23 CARRY CLK9 > CLK9 > CLK9 > CARRY 2

ENFIELD 3

UPH 4

UPH 5

5 ENFIELD > 2 中間 SYA > 3 12 02 03 04 05 05 04 05 06 08 09 INT > 4 13 SID 5 H LINE 5 14 UPH 5 15
ENLINED 7 16 05  $\rightarrow$  ENL INE D 17  $\rightarrow$  HL P4 16  $\rightarrow$  ENL INE 625 15  $\rightarrow$  ENL INE 09  $\rightarrow$  GATESTART INPUT CLAMP -5V-A SYNC SEP. R233 681K C212 4N7 FEED-BACK CLAMP SYNC.SLICER NOTCH PP21 CLP>-[ R211 1K INPUT BUFFER R205 1K V202-B LF353N 0203 BF256 C283 V281 LM311 ENLINE 5 T 15U HD>-R214 43K2 FIRST USED IN: PM 5644 HD PCB REF.: 4008 117 0554 3 2 95-06-16 4008 109 7818 POWER SUPPLY NAME: NHa/SNJ/JML 4 SH SH 130 - 2 CHECK: BCDA 78182 SCM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY DAT. 92-05-21 A3L

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**GENLOCK** INPUT PHASE DETECTOR CONTROL R302 10K F383 R384 221 CLK9 ← oxF ı CLKLC -OXF 2 LOOP FILTER →UNIT-SDA C307 100N PØ.2 B DACZ OCXO HDRIVE ← OXF 12 HCOURSE (13)
EXT.AV (14)
INT (15) VDRIVE ← OXF II P3.1 P3.2 CLK4> FRAMEINT >---OXF B HD (16 P1.3 V307-A 74HC4046 P3.3 5YNC >--- 0 XF 12 WRDAC (17 P3.4 PHASE SHIFTED INTLINE P3.5 COMP D3 D4 D5 D6 LINE625 P3.6 UPH> P3.7 COMP: EXT.LINE > ocxo I HREF) 18 19 19 110 HD) 13 111 PHASE PULSES HCOURSE> ADJ OVEN TEMPERATURE 13.5MHZ REGULATOR R381 511 -8V-8 -8<del>V</del>-8 D85 FINE PHASE CONTROL DB4 REF FREQ DB3 CUTA RTEMP INT > R382 28K R320 7K5 D322 INB25 PROPERTY OF PHILIPS TV TEST EQUIPMENT A/S
ALL RIGHTS STRICTLY RESERVED. \_\_\_\_\_ C320 R324 IIK ¥ - C321 100N R337 -8₹-8 **6 →** D312 BAW62 R327 432 R329 PHASE DETECTOR → 13.5MHZ (NOT USED IN PALPLUS) 72 MHZ VCO (NOT USED IN PALPLUS) +8<u>V</u>-A R359 12K1 LOOP FILTER R354 221K C354 100N RC OUT COMP CLKLC> 14 SIG CX31

TO GENERATOR COMP2 COMP3 OUT CLKXTAL> 3 COMP (7) PHASE PULSES GND R365 3K32 R368 332 C363 P68 74H

6 CA
7 CB
11 R1
12 R2
9 VCO IN
5 VCO C348 188N C341 188N C342 100N C343 188N \* NOT MOUNTED IN PALPLUS FIRST USED IN: PM 5644 HD PCB REF.: 4008 117 0554 3 \*\* CONNECTION ONLY IN PALPLUS 2 95-06-16 POWER SUPPLY 4008 109 7818 NAME: NHa / J ML 4 SH SH 130 - 3 CHECK: A 85543,5CM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY DAT. 92-05-22 A3L

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PROGRAM MASTER CONTROL ADDR.LATCH EPROM RAM E 2 PROM RD > RAMVCC > \_\_\_\_ C403 \_\_\_\_ V4Ø3 27C512 V404 TC5564AFL V482 74HC573 ADS 39 DS DS 38 DI 37 P XT41 12 MHZ 28664 28 AVCC
A2 8 A2
A3 7 A3
A5 5 A5
A6 4 A5
A7 3 A7
A8 25 A8
A10 21
A11 22 A11
A12 22 A12

[21 DØ) - DØ
DI) - 3
DI
D2) - 4
D2
D3) - 5
D3
D4) - 6
D4
D5) - 7
D5
D6) - 8
D6
D7) - 9
D7
MB XTAL2 03 16 丁 C481 27P \_\_\_\_ C482 27₽  $\nu_{05} \xrightarrow{17} D5$   $\nu_{06} \xrightarrow{18} D6$  $AD7 \longrightarrow D7$ 19 D7 CLOCK-SCL > BA ← 2 P1.1 REMOTE-RESET → A1Ø REMOTE-SCL)  $\rightarrow$  A11 REMOTE-SDA> → A12 6 P1.5 7 P1.6 MRES — A13 UNIT-SEL > → A14 A15 > UNIT-SDA → A15 → TP41 FRONT-RXD > CERAM > 31 EX FRONT-TXD> 9 RST PSEN 29 WR > UNIT-ACK > WR ≻ HDRIVE > II TXD 12 INTE WR 16 → WR 17 → RD 15 TI → REMOTE-RESET FAN CONTROL → REMOTE-SDA XD 13 0-R418 2K21 XE 5 0 ₽ ✓ MRES XF 3 0ightarrow UNIT-SCL V4Ø8 PCF8591P XF 4 0----→ UNIT-SDA +5V +5V → FRONT-RXD XE 3 0-→ FRONT-TXD XE 4 0----→ UNIT-ACK C411 GUB -0 XG ₂ 2 AINI R416 2K21 3 AIN2 —о xg з AIN3

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AØ IIC
ADDR. WATCHDOG UNIT-SDA ← 9 SDA
UNIT-SCL ← 18 SCL XE 7 0-R413 3K57 XE 9 0-EXT 12 XE 11 0-AGND 13 VSS XD 15 0-V406 MAX693 TP42 13 CEIN CEDUT RESETI XE 12 RESETZ 15 \* NOT MOUNTED XE 13 PFOUT LOWL **土 C420** RESET ← ≺ RESET →CLOCK-SCL →CLOCK-SDA PM 5644 HD FIRST USED IN: PCB REF.: 4008 117 0554 3 2 95-06-16 POWER SUPPLY 4008 109 7818 4 SH SH 130 - 4 CHECK: NAME: SNJ/JML DABC 78182 SCM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY DAT. 92-05-25 A3L

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