VIDEO CONTROL \*\*B ⋅5∨ CPU ROM RAM ADDR. LATCH PXO XTALI D3 BAT85 IIC. INTERFACE C62 -J1 3 OUNIT-SCL 14 S A15 2 PSEN > 31 EX → PSEN > CHIOFF 11 TXD 12 INTE → CH2OFF ADDRESS NOT MOUNTED CH30FF DECODER CHISYNC > CH2SYNC  $\rightarrow$  MRES UNIT-ACK J1 6 0-→ CH3SYNC MRES J1 5 0-BANK → PROG RESET  $\Box$ WH > 4 62A → DCIØ SUB POWER SUPPLY → DC11 → DC12 → DC13 → DC15 → DC16 J2 18 0-→ DC17 □3 > J2 70-J2 8 0-J2 9 0-± C22 330 - C(24-26) - 188N C(53-56) - C[33-34] + C57 → DC2 J2 10 0-→ DC3 R2 332 → DC4 J2 23 O → DC5 → DC7 → DC8 → пса J2 19 ⊖--6V-C J2 22 O J2 1 0-J2 2 0-J2 14 0-J2 15 0-C135-521 4 C31 J2 3 0-J2 4 o-J2 16 0-\*\*A \*\*B J2 17 0-FIRST USED IN: PM5644HD PCB REF.: 4008 117 0544 PM5644HD PP2Ø \_\_\_\_ C(681-6181 C688 # C12 3 94-03-24 J2 12 0-HDTV GENERATOR 3 93-98-12 J2 13 0-4008 109 7755 CONTROL & POWER J2 25 <sub>O</sub>— J2 26 0— 7 SH SH 130 - 1 3 93-82-24 NAME: GBG/CH/SNJ/NHA/JML ABCDEFG775533CM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY DAT. 91-10-26 A3L

IC-NYT LIB REST GAMMEL LIB PP9-4888 187 45218

H-COUNTER/LOGIC DECODER SINEWARE TO TTL CONV. V46 +5V 22VID 2 \_\_\_> CLK/2U CLKPLD> ENBU ENIU CARRY 3 12 EN2U 03 28 BLANKU BL ANKLL > ENBU CONTROL → DATABLANKU A2U DATABLANKU> 05 IB CLK.CHIU SIGNALS PROG > 05 HB LDCU 06 17 CLK.CH2U 07 16 CLK.CH3U CHIOFF ASU CH2OFF >  $\rightarrow$  CARRY  $\begin{array}{c}
 & 16 \\
 & 15 \\
 & 15
\end{array}$   $\begin{array}{c}
 & 16 \\
 & 15
\end{array}$   $\begin{array}{c}
 & 16 \\
 & 15
\end{array}$   $\begin{array}{c}
 & 14 \\
 & 13
\end{array}$   $\begin{array}{c}
 & 16 \\
 & 14
\end{array}$   $\begin{array}{c}
 & 16 \\
 & 16
\end{array}$ O8 15 A1U CH3OFF ODDRESET> → SYNC625U A2U A18U 18 09 14 → FHU SY2 | 18 | 19 | 118 →BITCLKU CHISYNC AIIU II CH25YNC PROG > 13 → DACCLK2 DACCLK3 R38 150 R39 332 VDRIVE > \_\_\_\_ 0 .11 # HDRIVE >-----O J1 18 CLKLC > SEGMENT COUNTER HREF >------ J1 7 ODD>--SYNC625>----O J1 14 MRES > -O J1 16  $\rightarrow$  LDC CLK2.25 → 2 c EMEU CLK4.5U → CLKLC HREFU  $\stackrel{\cdot}{\rightarrow}$  HREF LDC > EN2U ENZ CLK2.25U → CLK2.25 EN3U EN3 → FH CLK.CHIU Q5 18 CLK.CHI BITCLKU → CLK9 06 17 CLK.CH2 CLK.CH2U ODDU  $\rightarrow$  odd 07 16 CLK.CH3 CLK.CH3U DATABLANKU → DATABLANK SYNC625U → SYNC625 SEGMENT DECODER DC5> CLKPLD > DC6 CLKPLD > CLK2.25 > LDC > AS3 D4 18 DS4 AS4 CLK/2 DC7> ENØ-3 ASB DC8> CLK.CH1-3 AS9 DC9> DCIØ > AS12 CLK2.25 > AS13 AS14 LDC > AS15 V37 74HC161 DCII > DC12 > DC13 > DC14 > ASI AS2 DS 18 CLK2.25 > AS3 DS11 DS13 LDC > DЭ AS6 D6 20 DS14 V21-V50 AS7 021-029 ASB R21-R49 +5V DC15 011-019 DC16 > CLK2.25 > AS12 DC17 A513 28 A13 DSØ-16 - DATA SEGMENT FIRST USED IN: HDTV GENERATOR PCB REF.: 4008 117 05443 AS15 CLK2.25 > 3 94-03-24 AS16 HDTV GENERATOR 3 93-88-12 4008 109 7755 SEGMENT & PLL LDC > 3 93-02-23 AS17 NAME: GBG /NHA/JML 7 SH SH 130 - 2 3 93-24-15 ASØ-18 - ADRESS SEGMENT PROM BCDEFGA77553 SCM KU PHILIPS TV TEST EQUIPMENT DK-2605 BR0NDBY DAT 91-10-25 A3L

28.78

753

MEMORY BANK 1 CLK> ENT > #5V R53 121 EN2 > R55 121 +5V R57 121 VIB2 74ABT821 V104 74ABT821 VIDB 74ABT821 VIØ8 74ABT821 03 22 AI 23 A2 22 A 23 A 24 A 25 A A A A 27 A 67 A 29 A 31 A 32 A 33 A 41 A 35 A 36 A 37 A 38 A 38 A 39 A 40 A 31 A 41 A 42 A 43 A 44 A 47 A 48 25 A2 25 A4 26 A5 27 A6 28 A7 LK/2> DATA CHI FNI > EN3> FNZ > +5V CLK> 31 A9 A10 A11 A12 A13 A14 A15 A16 A17 VPP 02 23 22 28 28 19 4 18 05 17 06 16 07 15 08 14 D18 D11 D12 D11 +5V | VPP | CE GND GND | 2 | 11 | 38 +5V 2 11 38 CE GND GND CE GND GND 2 11 38 +<u>5</u>∨ CLK/2 R63 V207 27C4096 Ξ CLK.CHI > 22 A1 A2 A2 A3 A2 A4 A3 A5 A5 22 AI 23 A2 24 A3 R64 243 23 A2 24 A3 25 A3 26 A5 27 A6 28 A7 25 A4
26 A5
27 A6
29 A7
31 A9
32 A10
33 A11
34 A12
35 A13
36 A14
37 A15
38 A16
39 A17 26 AE 27 AE 28 A7 29 AB 31 A9 32 A18 29 48 31 A9 A10 33 A10 34 A12 35 A13 36 A14 A15 37 A15 33 A11 34 A12 35 A13 36 A14 37 A15 D13 38 A15 39 A17 38 38 416 39 A17 VPP +5V VPP +5V CE GND GND CE GND GND 2 11 38 2 11 38 2 11 38 CLK.CH2 > 13 12 CLK.CH2 > 13 12 CLK.CH2 > 13 12 CLK.CH2 > 13 12 → D200-209 TO SH-3 → TLSØU PROM ADDRESS → TLSIU →SY2U → VDRIVEU → SYIU → ODDRESETU → HDRIVEU 02 28 TLS8 03 19 TLS1 04 18 VDRIVE 05 T HDRIVE TLSØU > TISIII > VDRIVEL 3 FIRST USED IN: HDTV GENERATOR HDRIVEU PCB REF.: 4008 119 05444 06 16 ODDRESET
08 14 SY2 BLU) 3 94-03-24 ODDRESETU > HDTV GENERATOR 4008 109 7755 SYZII> 2 92-11-10 MEMORY BANK 1 SYIL > CLK9 > NAME: GBG/JML 7 SH SH 130 - 3 3 93-82-23 CHECK: CDEFGAB77553SCM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRONDBY DAT. 91-10-19 A3L

MEMORY BANK 2 D200-209 >-CLK> ENT >-V214 74ABTB21 V212 74ABT821 03 2 05 06 17 CBD8 06 17 CBD6 07 16 CBD7 08 15 CBD6 09 14 CBD5 22 A1 A2 A2 A3 22 A1 23 A2 24 A3 25 A4 22 AI 23 A2 24 A3 25 A4 CLK/2 > DATA CH 2 26 A5 27 A6 28 A7 29 A8 31 A9 26 A5 26 A5 27 A6 A7 29 A8 31 A9 27 A6 CLK.CH2 > ENØ > 29 A8 31 A9 EN3 > 32 A10 32 A 12 DIØ DII D18 D11 D12 33 A11 33 A11 33 AII 34 A12 35 A13 36 A14 34 AI2 35 AI3 36 AI4 3 D1 4 D2 5 D3 34 A12 35 A13 36 A14 34 A12 D12 35 36 A14 04 18 CBD4 05 17 CBD3 07 16 CBD2 08 15 CBD1 09 14 CBD8 37 A15 37 A15 37 A15 37 38 A15 D15 38 A16 38 A16 38 A16 39 A17 39 A17 39 A17 ᆝᄱ VPP +5∨ ▼ 18 19 11 118 118 119 118 CE GND GND CE GND GND CE GND GND CE GND GND V385 27C4896 V307 27C4096 22 A1 23 A2 24 A3 22 AI 23 A2 24 A3 25 A4 22 A1 23 A2 22 AI 23 A2 25 A4 25 A4 26 A5 27 A6 28 A7 26 A5 27 A6 28 A7 27 28 A5 29 A8 31 A9 32 A1Ø 29 AB 29 A8 32 A18 33 A11 34 A12 32 AIØ 33 AII 34 AI2 ENT > EN3 > V316 74ABTB21 33 A11 A12 V318 74ABT821 V312 74ABT821 2 D8 D12 35 A13 35 A13 35 A13 D13 D13 D13 36 A13 37 A15 38 A16 39 A17 VPP 36 A14 36 A14 D14 D15 D14 D15 37 A15 38 A16 39 A17 37 A15 CLK/2> 38 A16 +5V | VPP | CE GND GND | 2 | 111 | 38 2 II 38 CE GND GND CE GND GND CLK.CH3 CLK.CH3 > 13 CLK.CH3 🏳 CLK.CH3 > PROM ADDRESS FIRST USED IN: HDTV GENERATOR PCB REF.: 4008 119 05444 3 94-03-24 HDTV GENERATOR 2 93-01-08 MEMBANK 2 4008 109 7755 3 93-02-23 NAME: GBG/JML 7 SH SH 130 - 4 3 92-10-03 CHECK: 

DATA BUFFER DAC FILTER CHANNEL 1 DATABLANK > V121 AD971388 DACCLK1> C126 5P6 DACCLK > DATA > DATABLANK > CHANNEL 2 L206 860 DATA CH2 DACCLK > VCC.D DACCLK2 REFOUT CAMPIN CHANNEL 3 1307 890 [7 DACCLK > VCC.D DACCLK3 DATABLANK > TRI-LEVEL TRI-LEVEL SYNC GENERATOR SYNC OUTPUT AMPL. REFOUT CAMPIN •5∨ DACCLK > TLSØ-1 >--FROM SH-3 FIRST USED IN: HDTV GENERATOR REF.: 4008 117 05444 HDTV GENERATOR 3 94-03-24 HDTVGEN CLK9 > 4008 109 7755 3 93-88-12 ANALOG OUT 3 93-02-05 7 SH SH 130 - 5 3 93-02-23 NAME: GBG/NHA/JML EFGABCD77553SCM KU PHILIPS TV TEST EQUIPMENT DK-2605 BR0NDBY DAT. 91-09-24 A3L

AMPL. + SIN X/X CORR. MATRIX & OUTPUT AMPL. AMP. CH1 Y/G OUTPUT AMPL. DC-OFFSET GAIN ADJUST Y ANALOG R138 243 U(Cb)/B OUTPUT AMPL. AMP. CH2 R215 IK DC-OFFSET GAIN ADJUST T 188N ⊕ BU2 (Cb /B) U ANALOG V(Cr)/R OUTPUT AMPL. AMP. CH3 GAIN ADJUST +8V V324 78L85 V ANALOG R338 39K2 FIRST USED IN: HDTV GENERATOR PCB REF.: 4008 117 05444 3 94-03-24 HDTVGEN ANALOG OUT 4008 109 7755 3 93-83-01 3 93-83-23 7 SH SH 130 - 6 3 93-02-24 

TTL TO ECL CONV OUTPUT DRIVER 22 X 10R 22 X 390R R634.R635.644 & R636 - 68 CH1 > ⊸ŏ BU5 ₃ 8 R615 - A VCCA 2 R634-A o BU5 4 -0 BU5 28 R631.R632.R637 & R643 = 398 \_0 BU5 21 -0 BU5 37 4<sup>R615-B</sup> R634-B \_o BU5 38 -0 BU5 5 -0 BU5 6 -0 BU5 22 9<sup>R617-E</sup> \_o BU5 23 U/V MUX —ŏ BU5 39 7 R616-D 7 23 D5
ECLK > 20 CPA \_0 BU5 48 → BU5 7 2-E8H 2-E9V \_ BU5 e -0 BU5 24 3 R616-B \_0 BU5 25 -Ö BU5 41 Гсн т ≻ -54 H831-H \_\_O BU5 42 \_\_O BU5 9 9 R635-E 12 -0 BU5 26 -0 BU5 18 → BU5 43 -0 BU5 27 22 X 390R 22 X 10R 8 R625-D CLK/2B > 13 |11 7 -5v -D 7 23 D5
ECLK 20 CPA 6R624-C \_o BU5 12 ŏ 8U5 28 O BU5 29 O BU5 45 -g√ ± € 73-V612 122351 19 MR 18 R626-E \_\_ BU5 46 → BU5 13 8 R622-G R622-H 8<sup>R626-D</sup> VCCA \_\_O BU5 14 --O BU5 30 R627-E 6<sup>R626-C</sup> \_0 BU5 31 R627-D 4 R626-B #622-D \_\_ BU5 48 E3 24 → BU5 15 3 R622-B → 1 2 R622-A → 1 2 R622-A 4 R627-B \_0 BU5 16 R639-A H-888-H-R626-/ 18 R623-I -0 BU5 32 7 1-9898 -5V → ECLK 2<sup>R627-A</sup> \_\_\_ BU5 33 R639-E CLK/2B > 13 |11 7 R623-F R623-G 6R628-C R685 158 R638-B \_0 BU5 50 —0 BU5 17 ECLK > 20 CPA CPB 4R628-B - RB36-G -0 BU5 1 -0 BU5 34 ECLK2 > - RB38-1 ECLK2 > - BU5 18 -- BU5 ₂ R681 —○ BU5 35 —○ BU5 19 CLK/2B > R602 →ECLK2 I R688 392 R633 392 +5∨ 03 <sup>5</sup> R603 DIGCLK > FIRST USED IN: PM5644HD PCB REF.: 4008 117 05444 3 94-03-24 HDTV GENERATOR 2 91-11-10 DIGITAL OUT 4008 109 7755 3 93-01-03 7 SH SH 130 - 7 3 93-02-23 NAME: GBG/SNJ/JML CHECK: ABSUBET77553 SCM KU PHILIPS TV TEST EQUIPMENT DK-2605 BRØNDBY DAT. 91-11-23 A3L