

SCPH-7500 SERIES

SERVICE MANUAL

Japan Model SCPH-7500

US/Canada Model

Australia Model

SCPH-7502A

UK Model

SCPH-7502B AEP Model

SCPH-7501

SCPH-7502C

Asian Model SCPH-7503

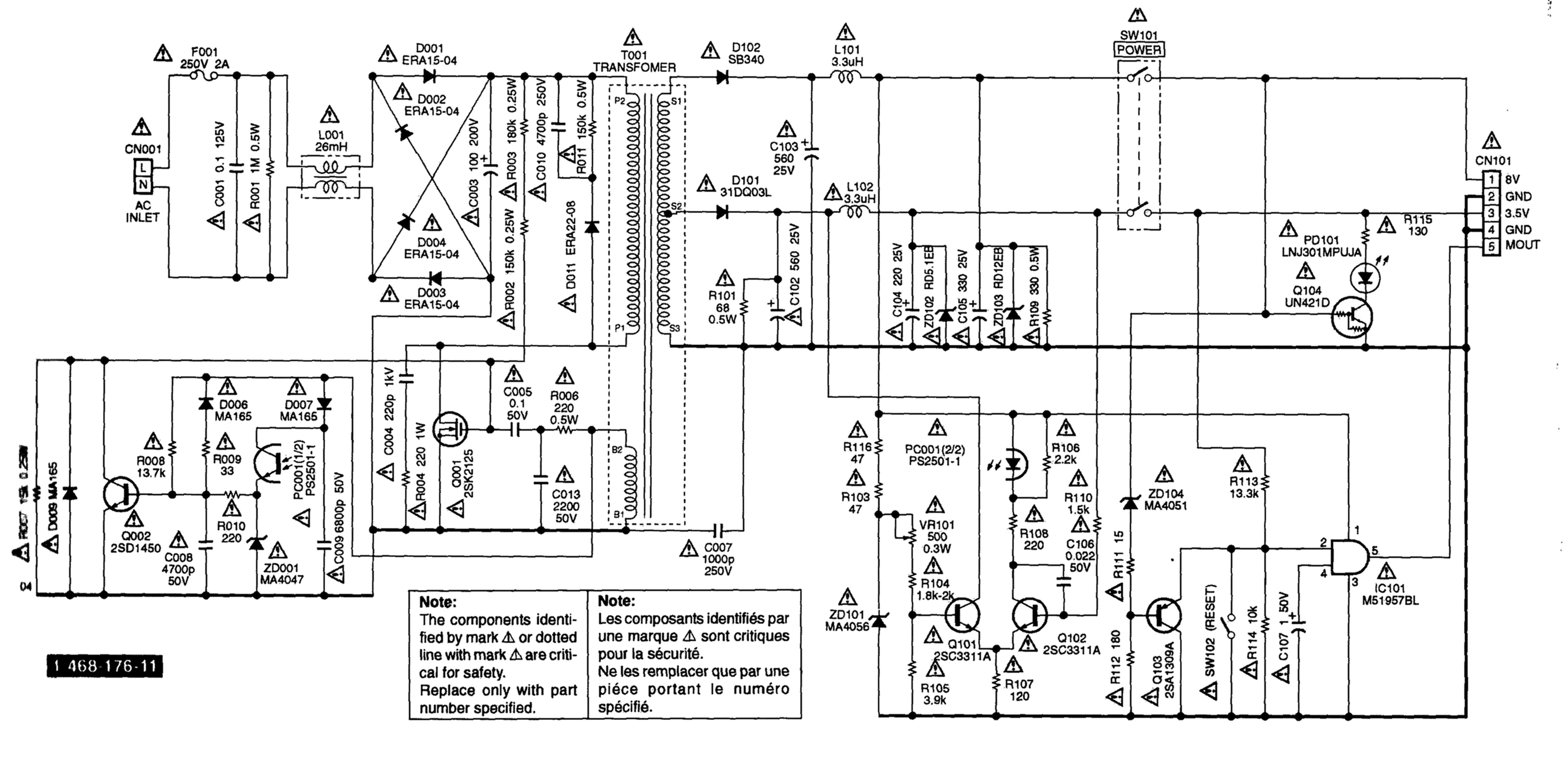
3rd Edition



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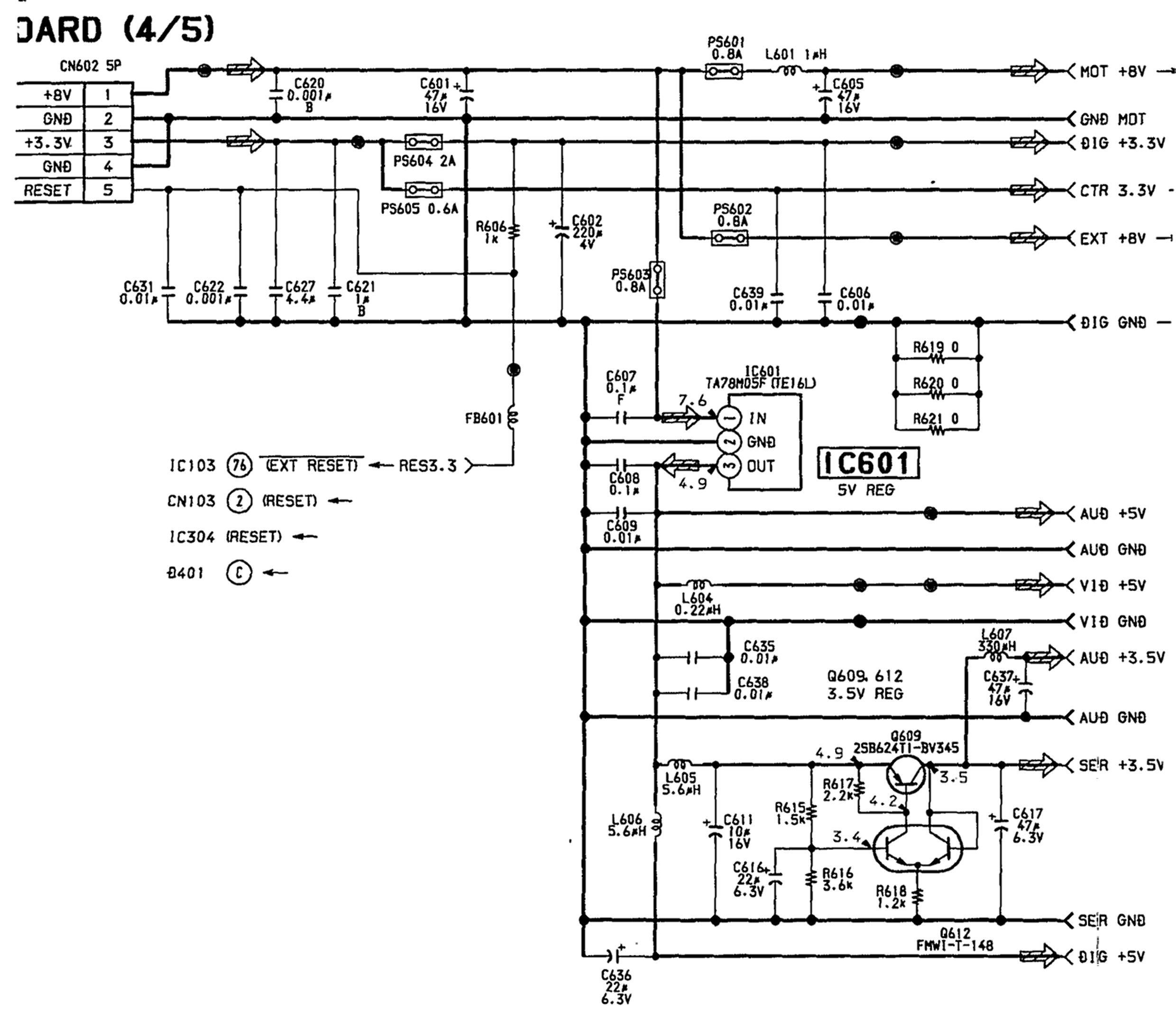
Registered No.

PlayStation



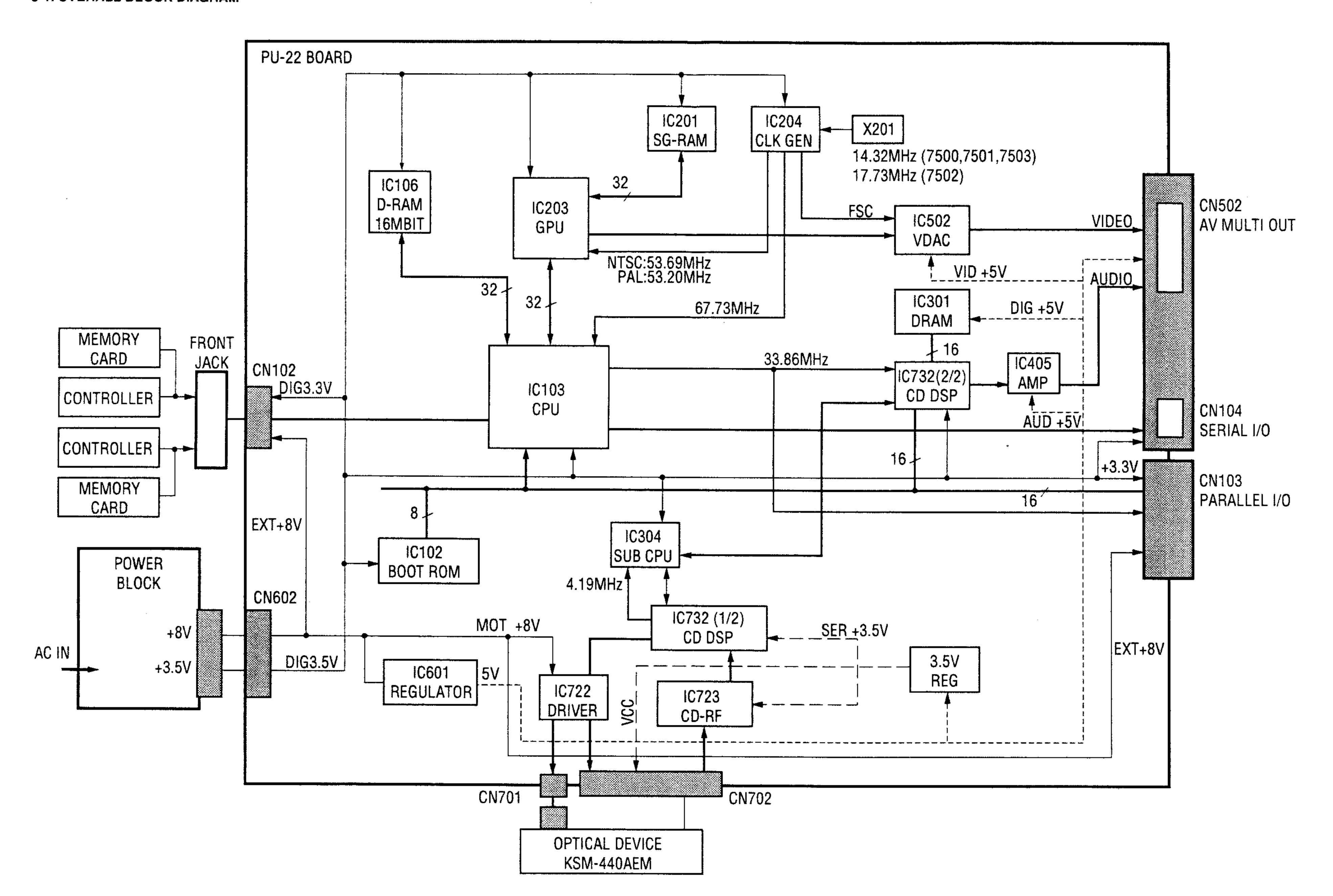
6-9. PRINTED WIRING BOARD (POWER BLOCK (1-468-176-11))

POWER BLOCK (SCPH-7500)

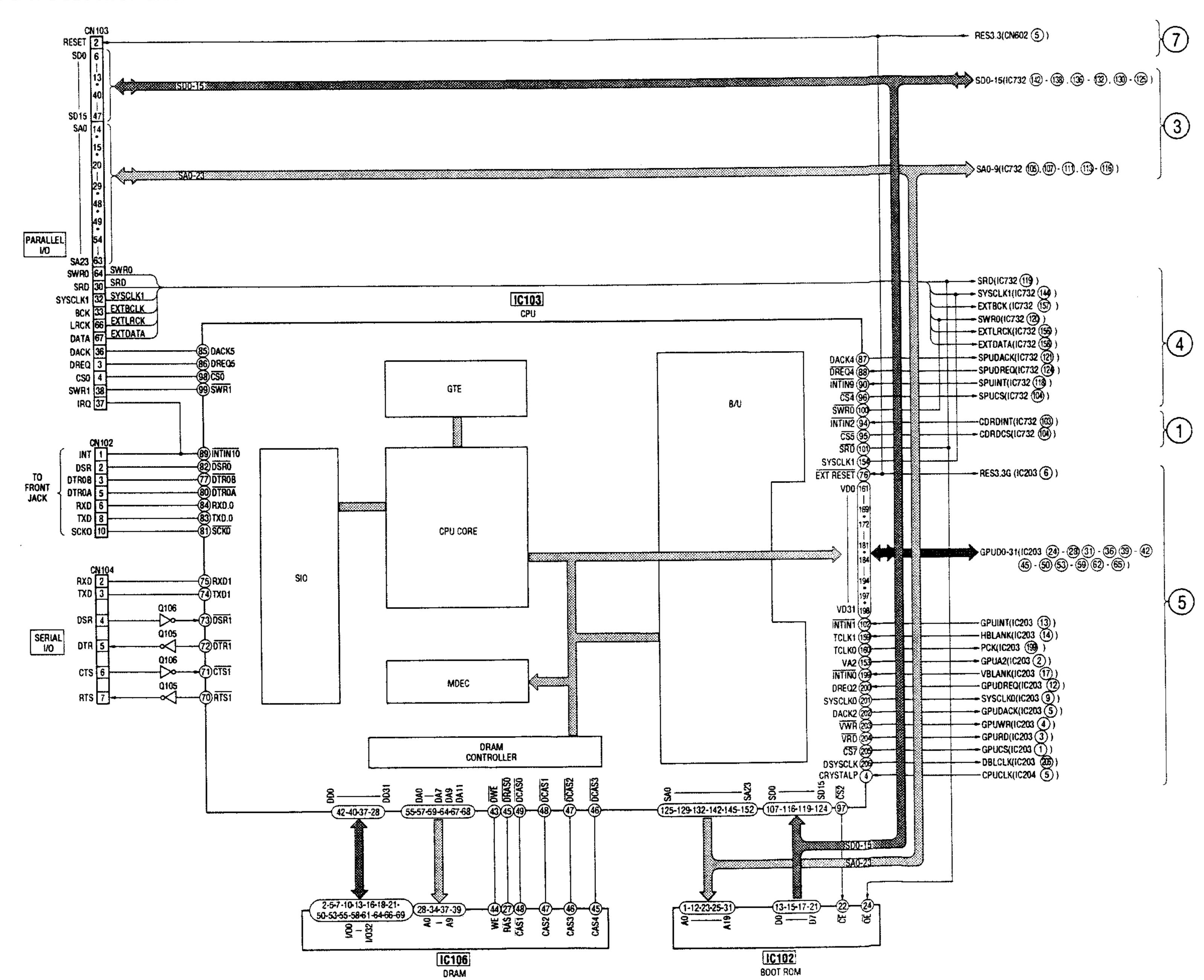


SECTION 5 BLOCK DIAGRAMS

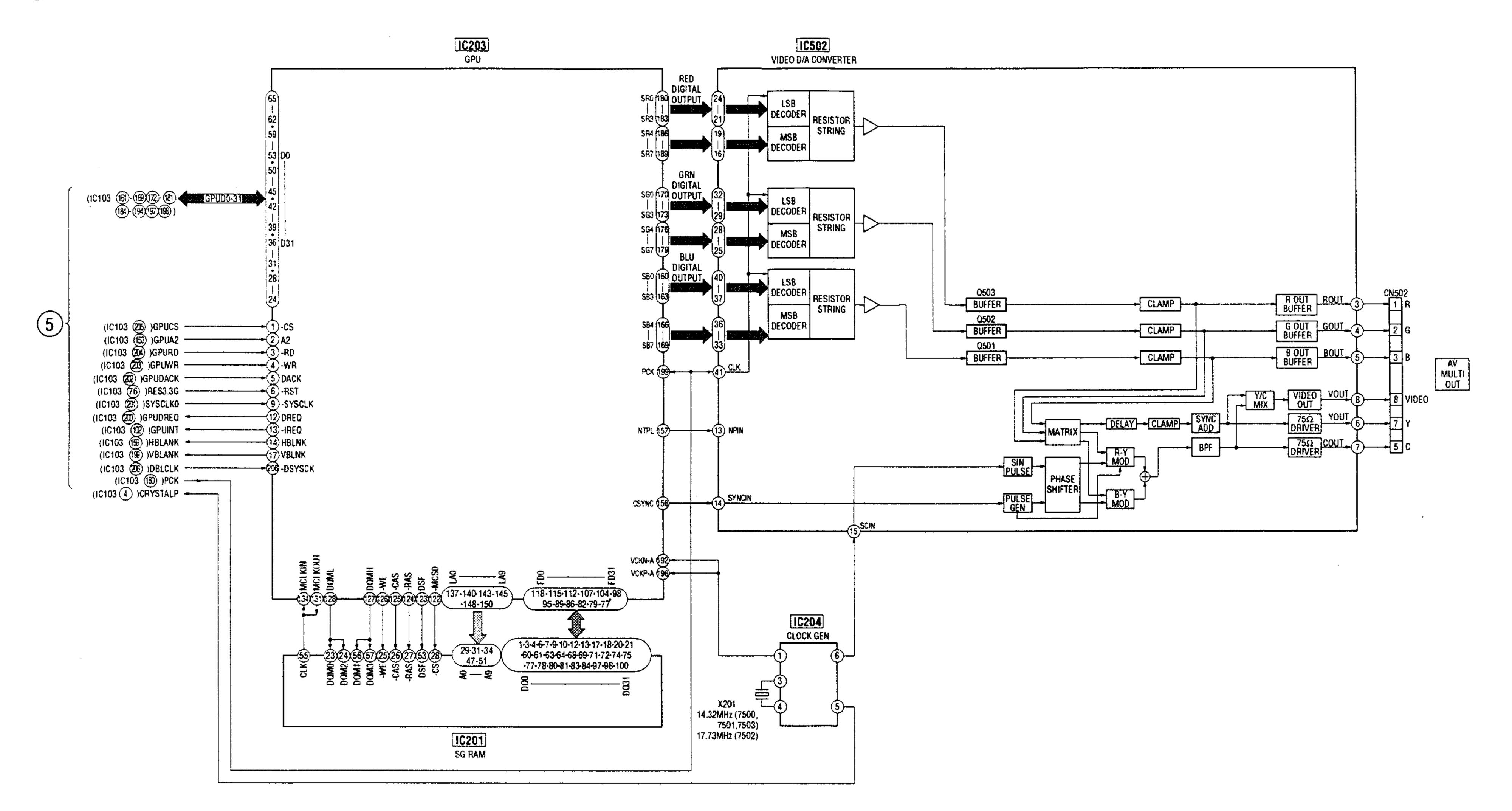
5-1. OVERALL BLOCK DIAGRAM



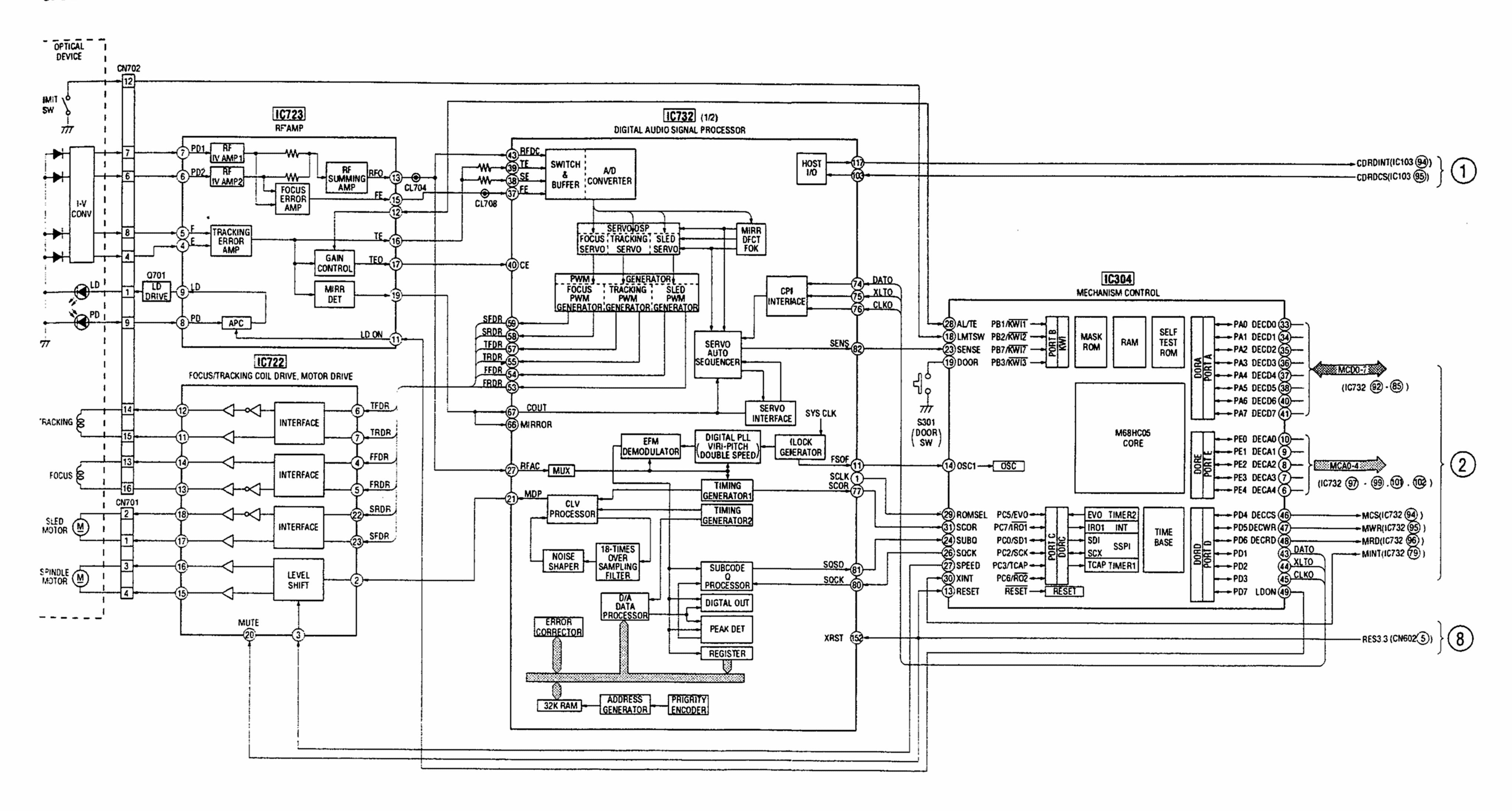
5-2. CPU BLOCK DIAGRAM



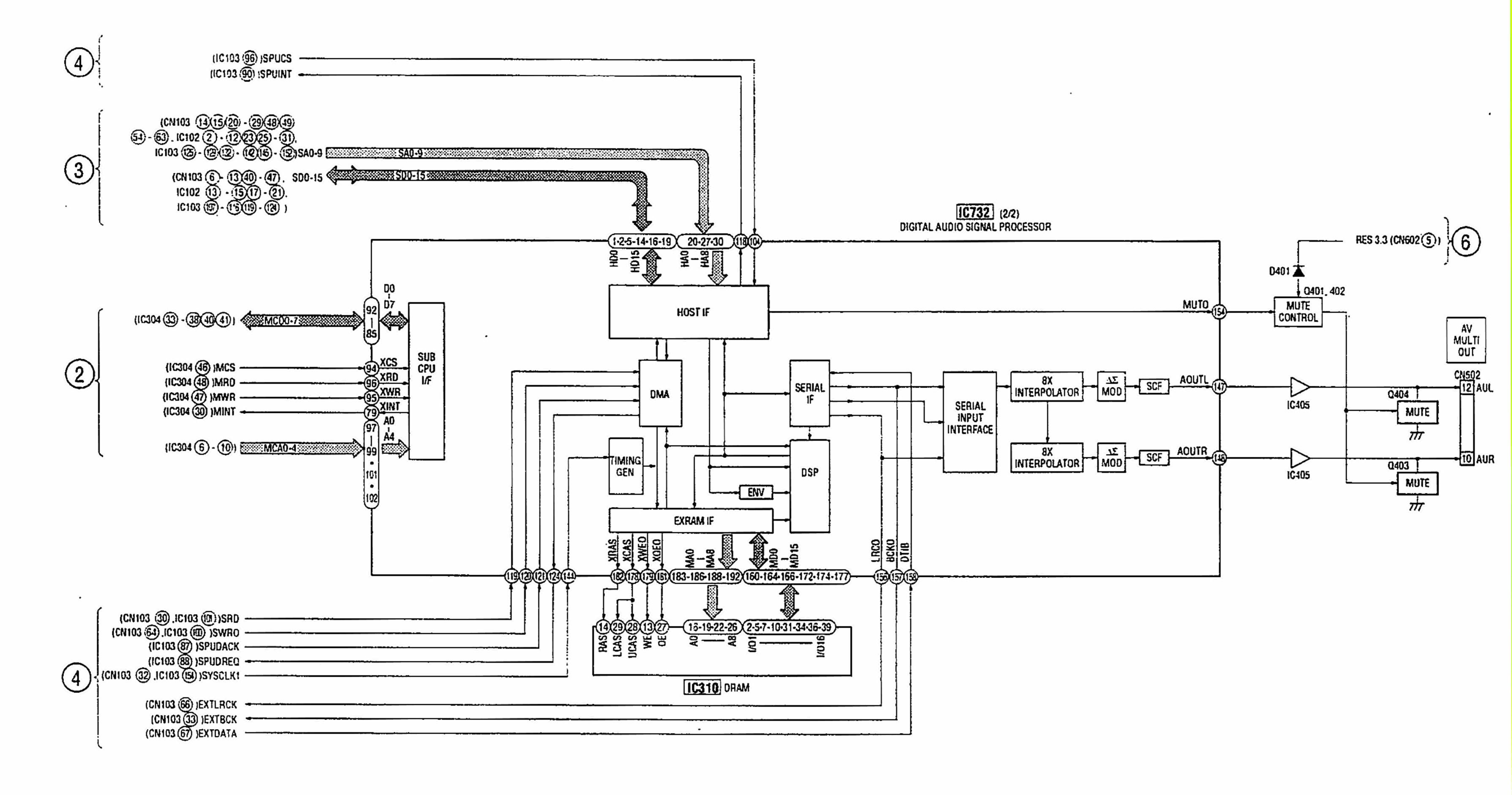
-3. VIDEO BLOCK DIAGRAM

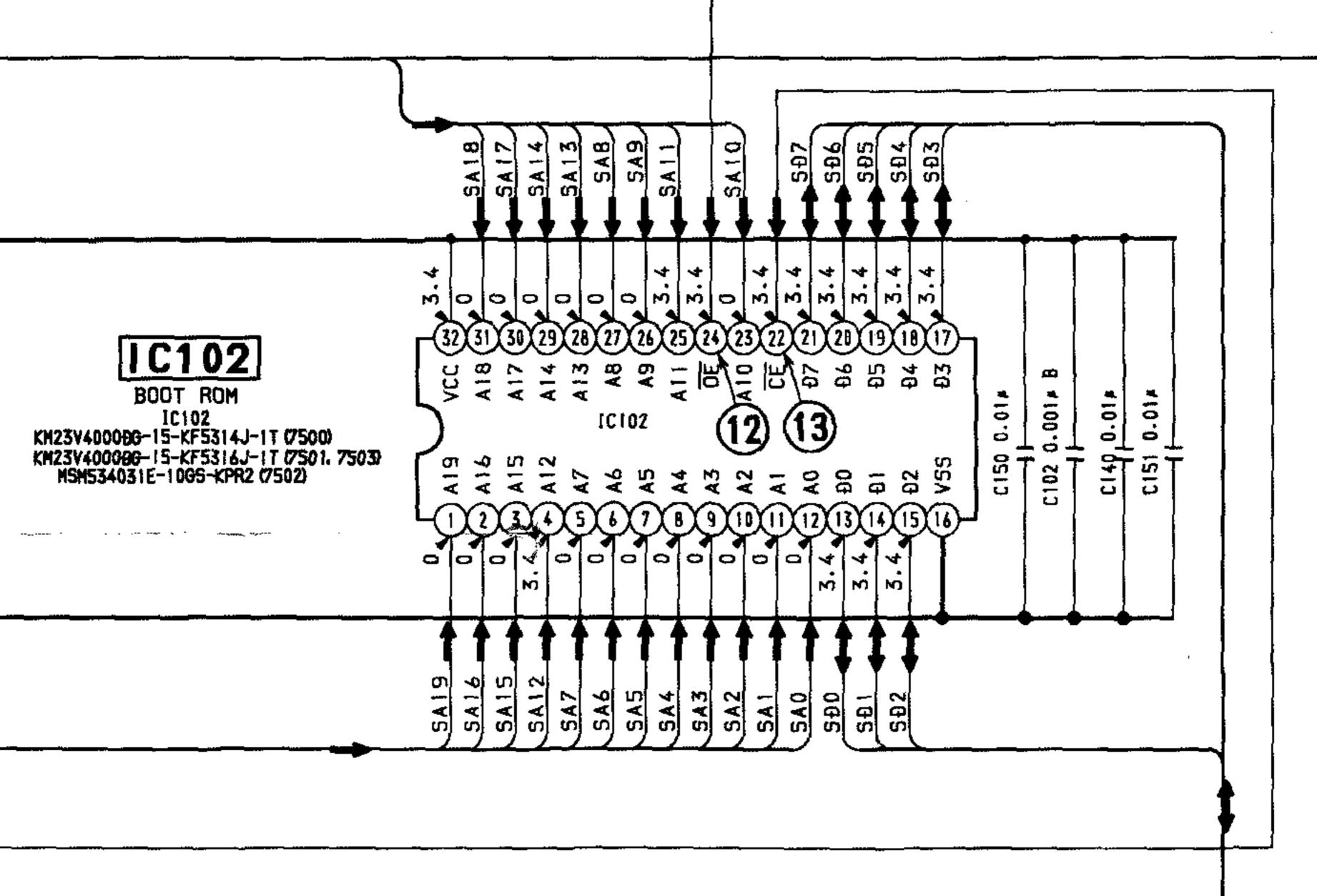


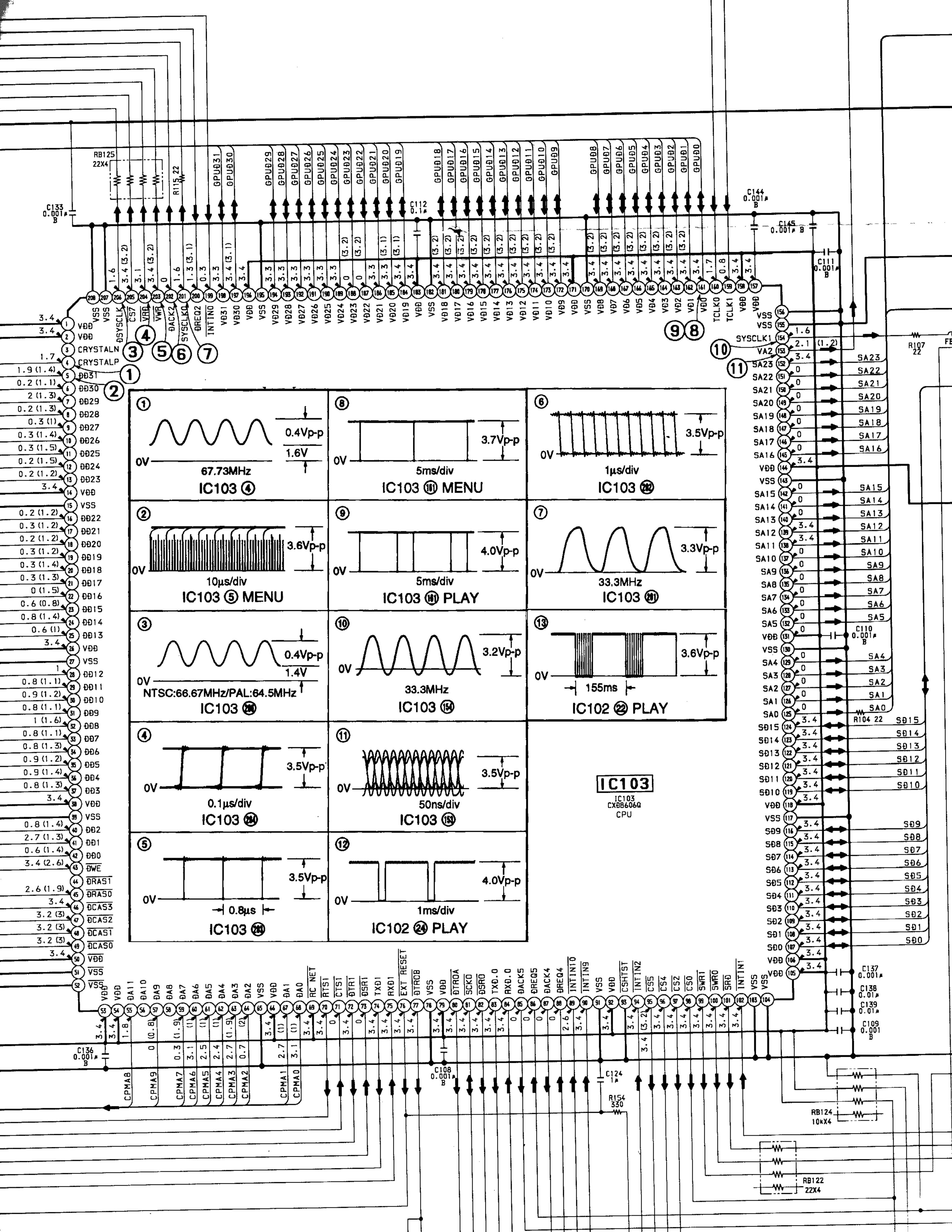
5. SERVO BLOCK DIAGRAM

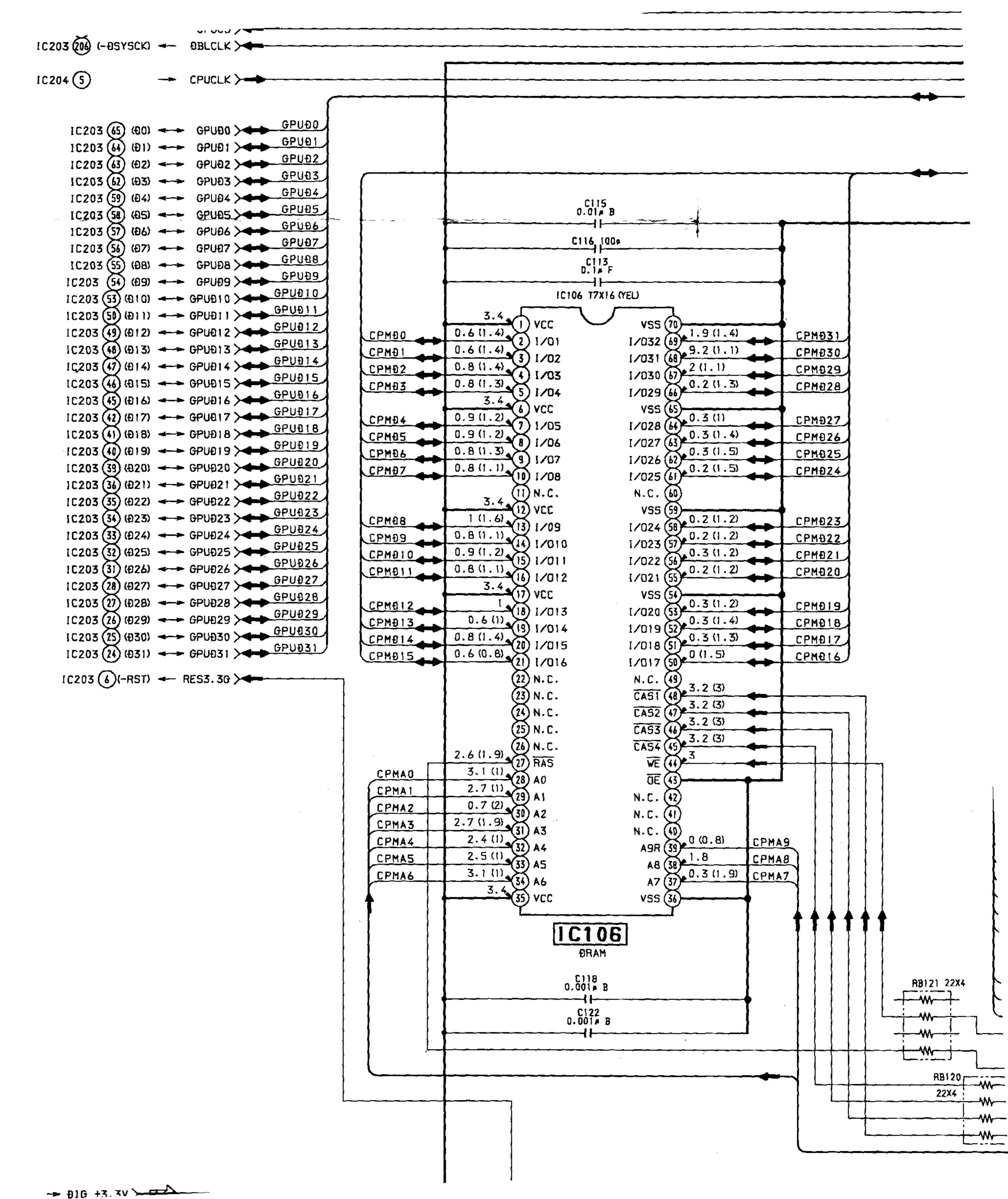


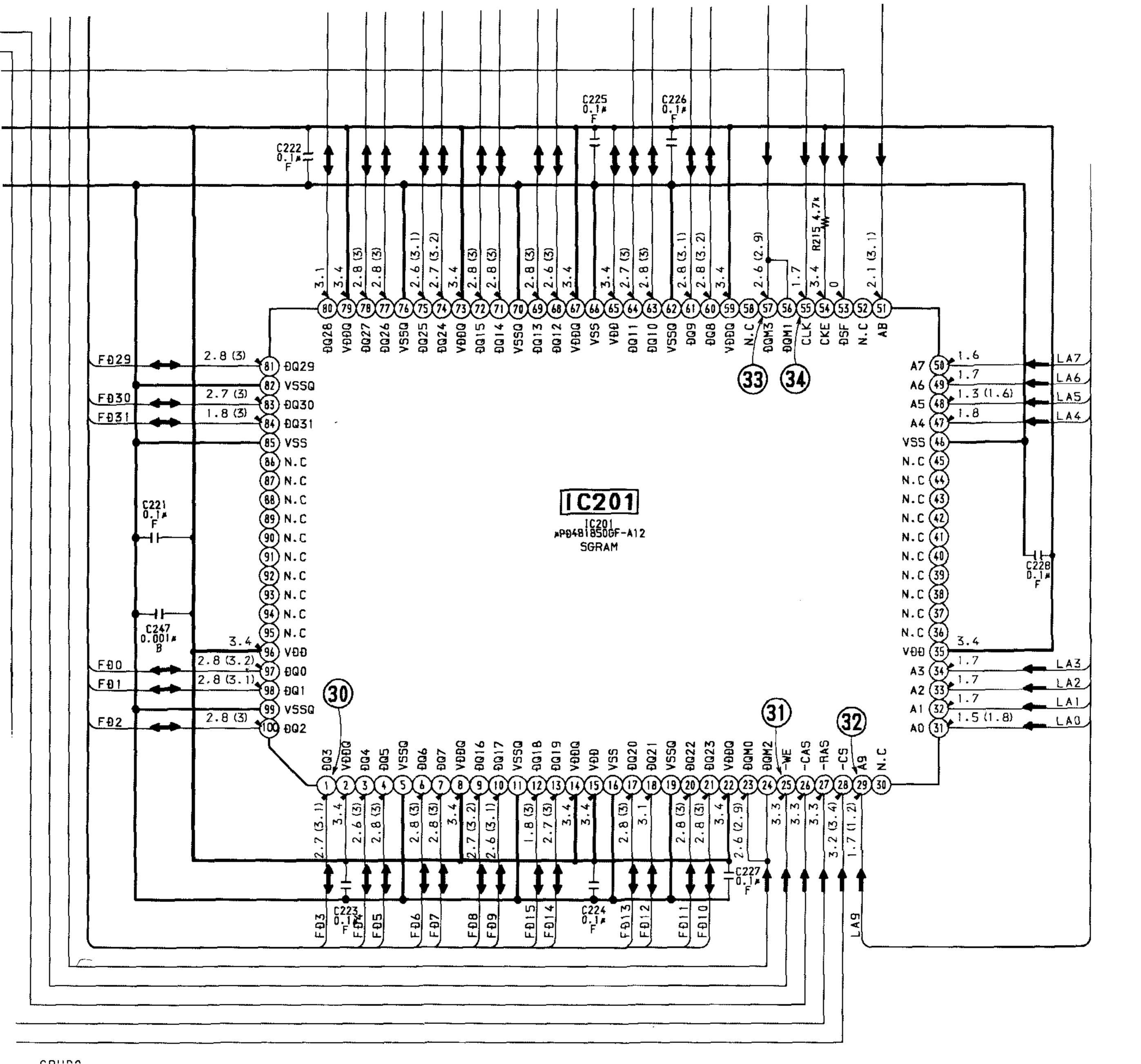
5-4. AUDIO BLOCK DIAGRAM

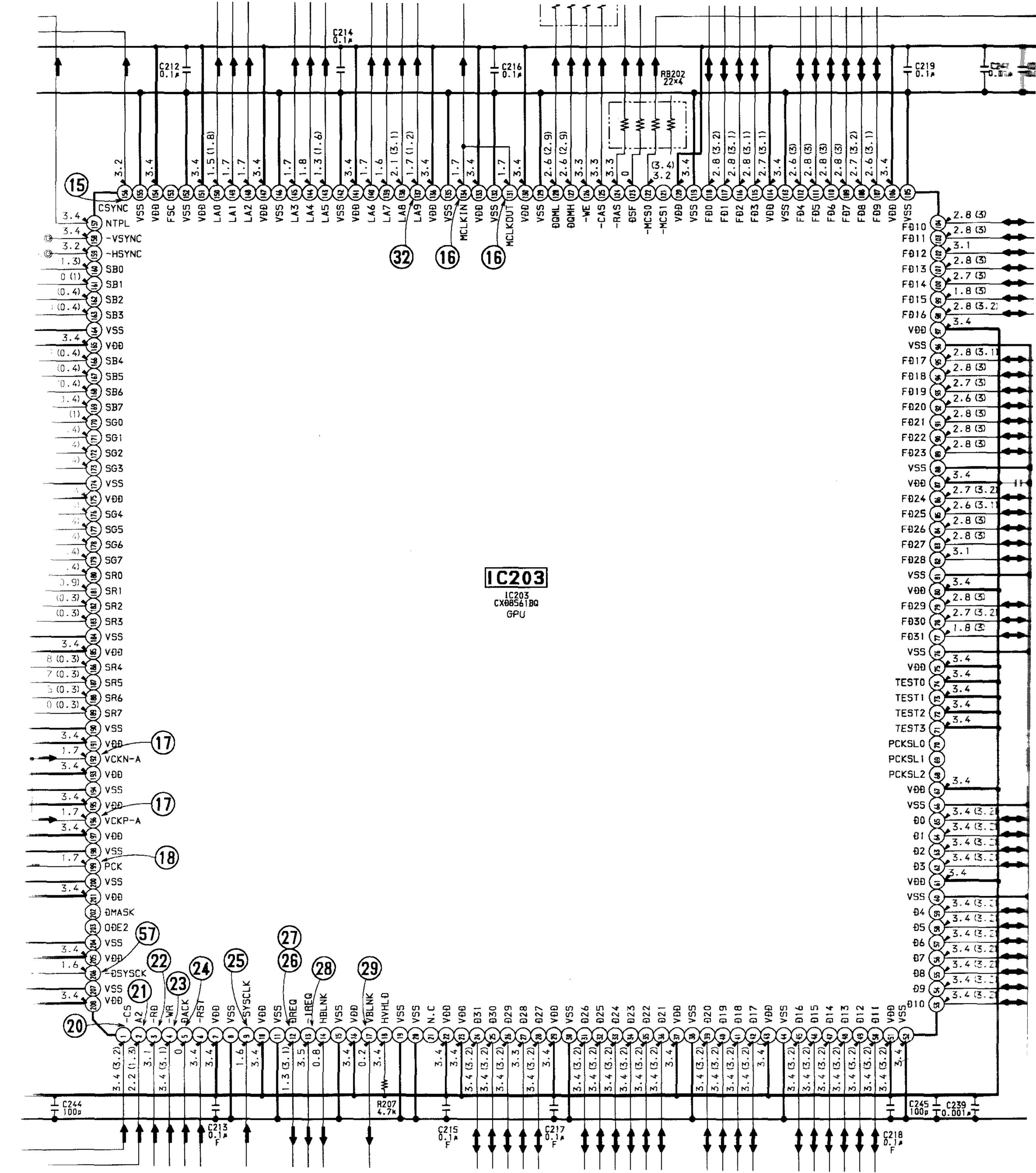


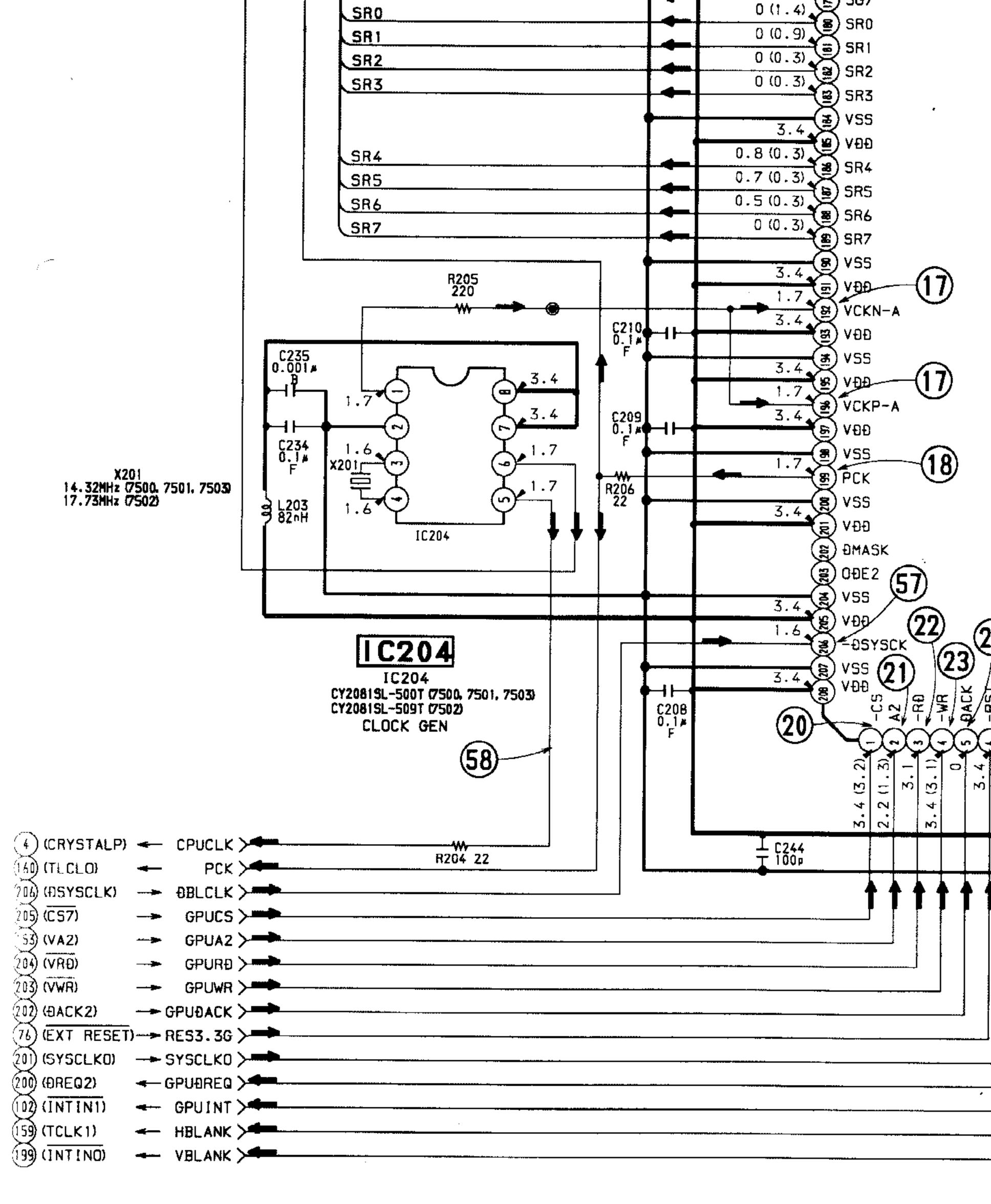




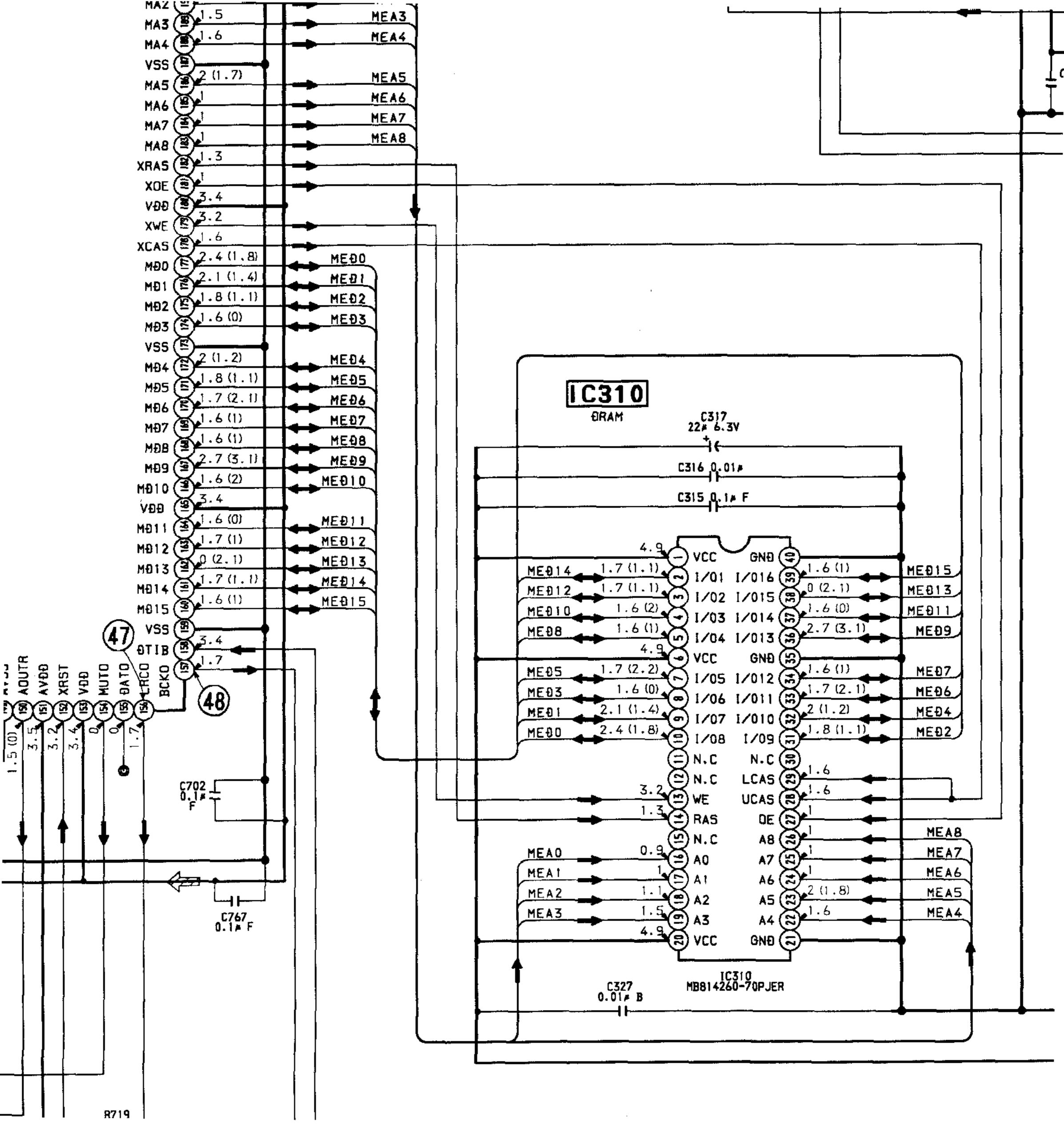


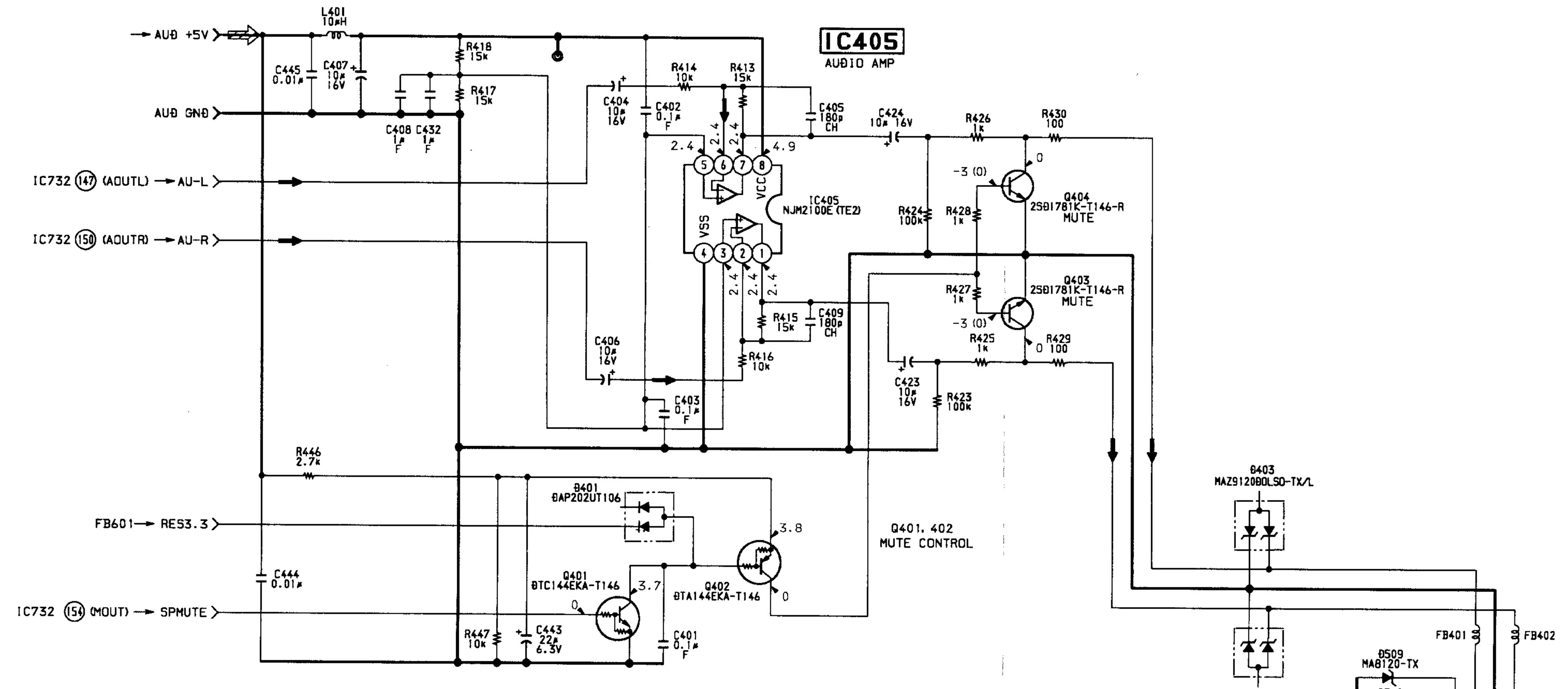


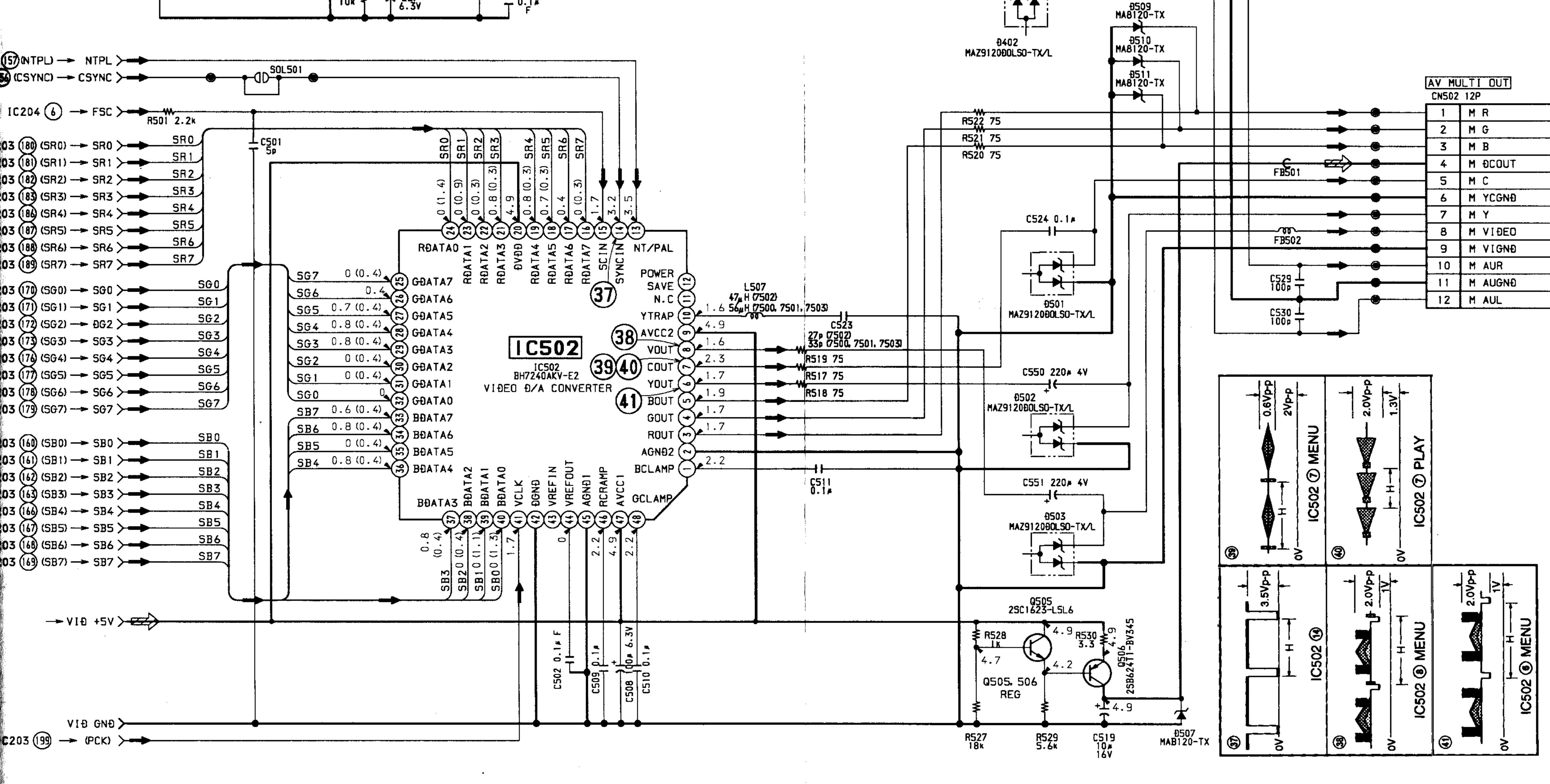


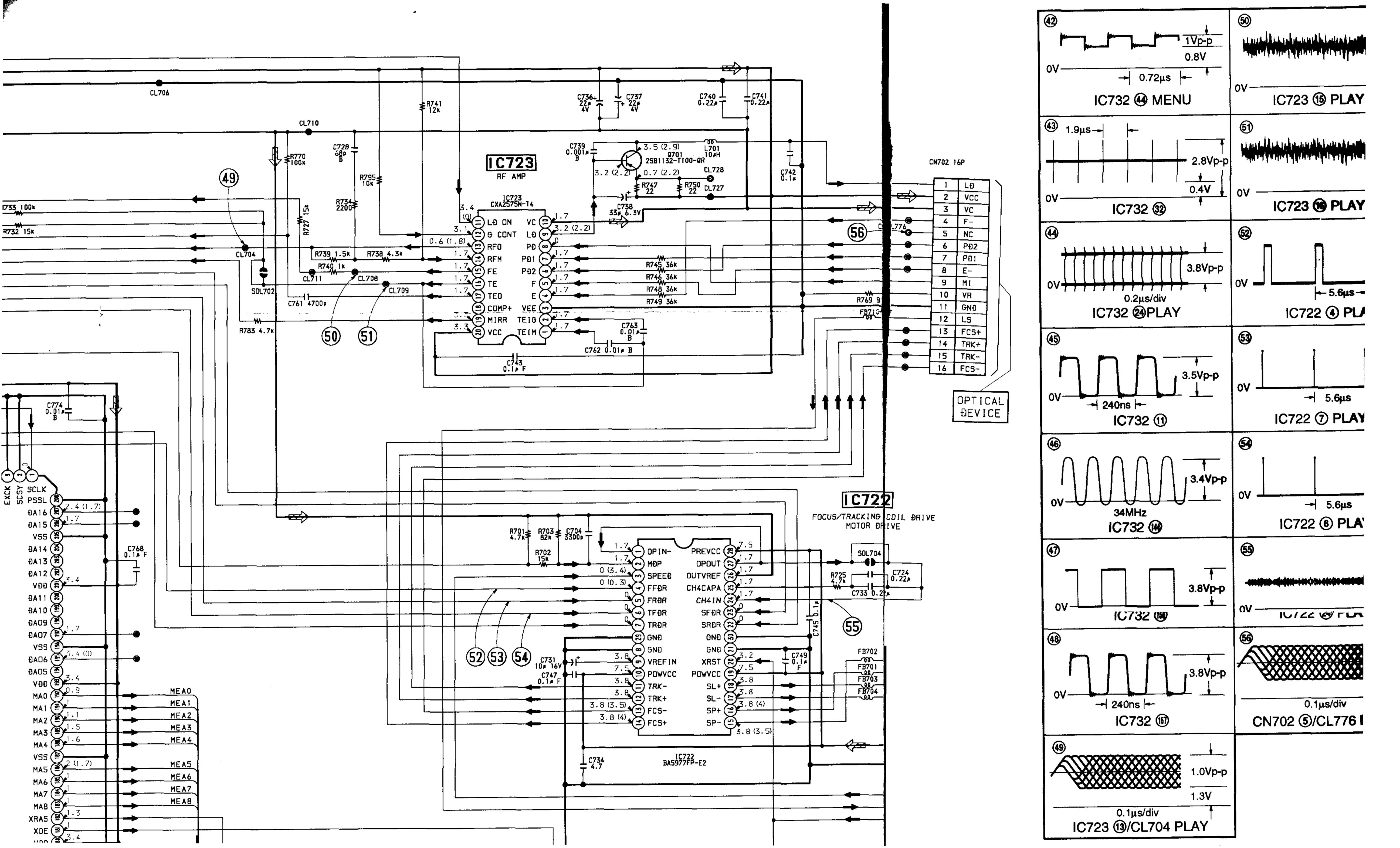


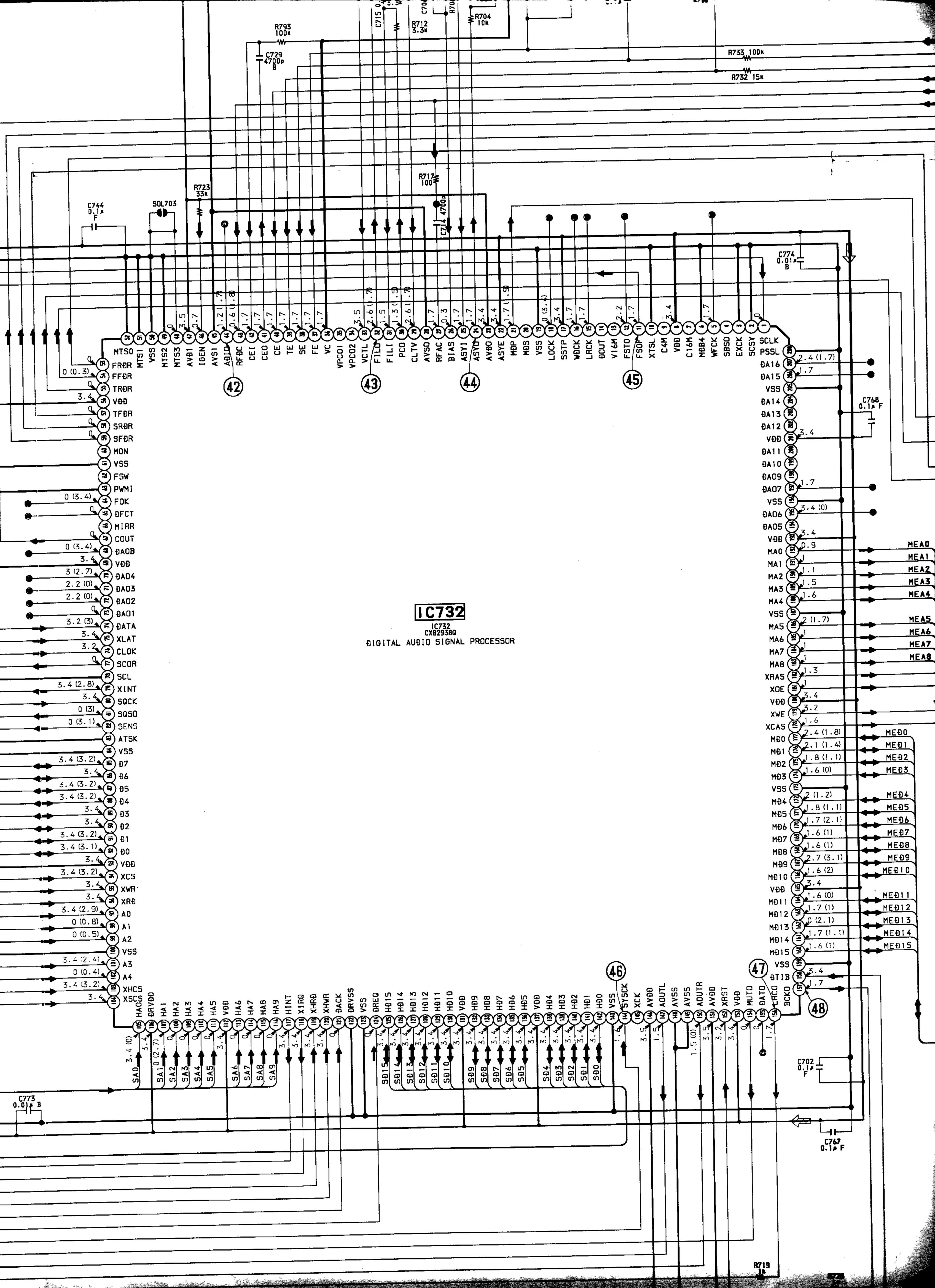
6-5. SCHEMATIC DIAGRAM (PU-22 (-11/-12/-21/-22/-32) BOARD (3/5)) 6 PU-22 HOARD (3/5) PU-22 B(R340 22 -- (ĐẠTO -- 10732 (74) (ĐẠT) - XLTO - 10732 (75) (XLAT R342 22 ---- CLKD -- IC732 (76) CLO 3.8Vp-p 4.0Vp-p 3.4Vp-p ► SCOR - IC732 77 (SCO) → 1.1μs -2ms/div ├────────┤ → SPEEÐ → IC722 3 (SP IC201 @ PLAY IC203 ® IC203 **④** MCD5 MCD3 MCD1 MCD1 MCĐO ✓ MCĐO ← → IC732 (92) (ĐO) MCĐI MC82 3.4Vp-p ✓ MCÐ2 → IC732 (90) (Ð2) MCĐ3 1.6V ✓ MCĐ3 → IC732 (89) (Đ3) 20µs/div MCĐ4 68.9MHz 0.1μs/div ← < MCĐ4 ← → IC732 (88) (Đ4) DIG GND > IC201 29/IC203 (1) MCĐ5 IC203 (9) IC203 (5) ✓ MCÐ5 ← IC732 (87) (Ð5) C325 J 47# T+ C326 0.1 NCĐ6 → ✓ MCĐ6 → 10732 86 (96) DIG +3.3V 10#H 33 MCĐ07 ✓ MCÐ7 → IC732 (85) (97) SCLK - IC732 (SCLK) 3.4Vp-p 10μs/div 33.3MHz NTSC:53.69MHz/PAL:53.2MHz IC201 🗑 IC203 ® 1C203 9 0.4Vp-p MCĐ63.4 (40) ĐECĐ6 | 4.5Vp-p SQCK (26) 3.4 (3.2) → SQCK → IC732 (80) (SQCK) MCĐ7 2ms/div 68.9MHz 13.16MHz SUBQ (24) 0 (3) IC203 1 PLAY IC201 😵 IC203 ® --- SUBQ --- IC732 81) (SQSQ) ---- SENS --- IC732 82) (SEN®) SENSE (23) 0 (3.1) 3.2(2.8) IC304 COUT (22) IC304 MC68HC05G6-C1050EB1 (7500, 7503) MC68HC05G6-SC430940PBEB1 (7501) TEST1 (21) 今日 5301 今日(ĐOOR OPEN) TESE2 (20) 3 (3.2) MC68HC05G6-5C430939PBEB1 (7502) 2ms/div MECHANISM CONTROL NTSC:66.67MHz/PAL:64.5MHz 0 (3.4) NTSC:66.67MHz/PAL:64.5MHz - CN702 (12) (LS) 3.4 (0) 49 LĐON IC203 1 MENU IC203 🐯 IC203 🔞 F-BIAS (16) ← CMCLK ← IC732 (1) (FSOF) 3.4Vp-p 36 → 16.5ms → 67.73MHz IC203 ① IC204 (5) IC203 **3** 0.3 (0.5 3.4 (2. → XRST → IC722 (20) (XRST) → MCA0 → IC732 (97) (A0) C319 1 3.8Vp-p MCAT → MCA1 → IC732 (98) (A1) MCA2 → MCA2 → IC732 (99) (A2) -- 240ns --50ns/div MCA3 → MCA3 → 1C732 (0) (A3) IC304 🚯 IC203 ② IC203 🗇 → MCA4 → IC732 (02) (A4) --- LEON -- 10732 (1) (LEON) 3.8Vp-p - IC732 (94) (XC9) -- IC732 (95) (XWR) 10μs/div ---- 1C732 (94) (X月旬) 0.1µs/div IC201 ① IC203 3 → RES3:3>→

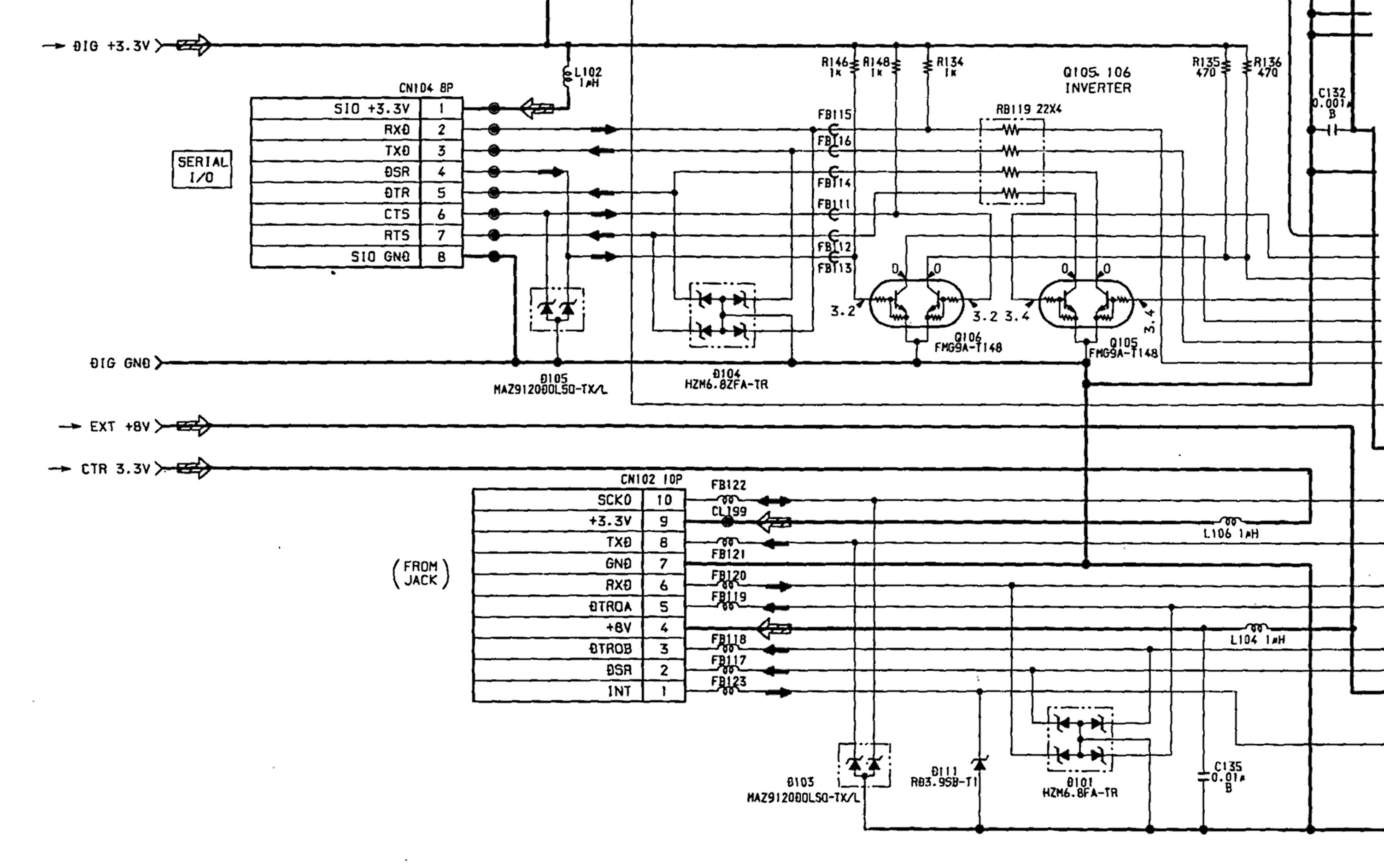












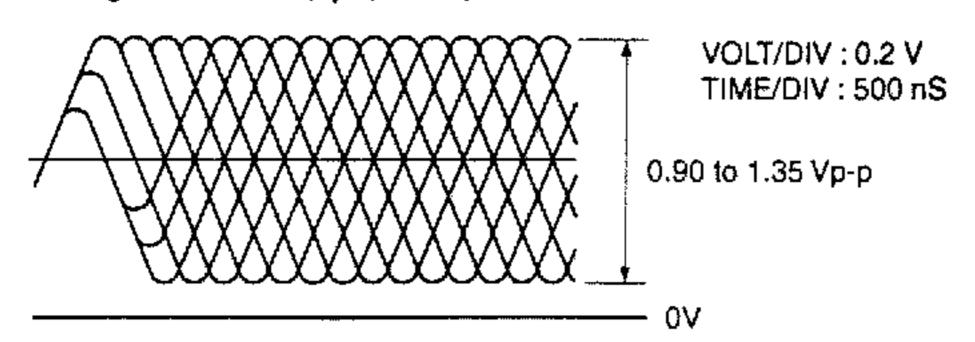
SECTION 3 ADJUSTMENTS

3-1. CHECK SPECIFICATION

RF level

0.90 to 1.35 Vp-p (Check point: Between CL704 (HOT) and CL710 (VC).)

RF signal waveform (eye pattern)



Use SCD-2700 DISC when measured RF level. Use the oscilloscope with input impedance more than 10 M Ω .

RF Jitter

Below 9.0 nS (Measuring by KJM-6135S JITTER METER.)

Below 27.0 nS (Measuring by KJM-6235S JITTER METER.)

PP level

1.1 ± 0.6 Vp-p (Check point : Between CL776 (HOT) and CL710 (VC).)

Use LPF (fc = 10 kHz)

Tracking level

 $1.25 \pm 0.65 \text{ Vp-p}$ (Check point : Between CL709 (HOT) and CL710 (VC).)

Caution.

Vc Line (CL710) do not make common use with GND line.

Check Point for PU-22 Board.

