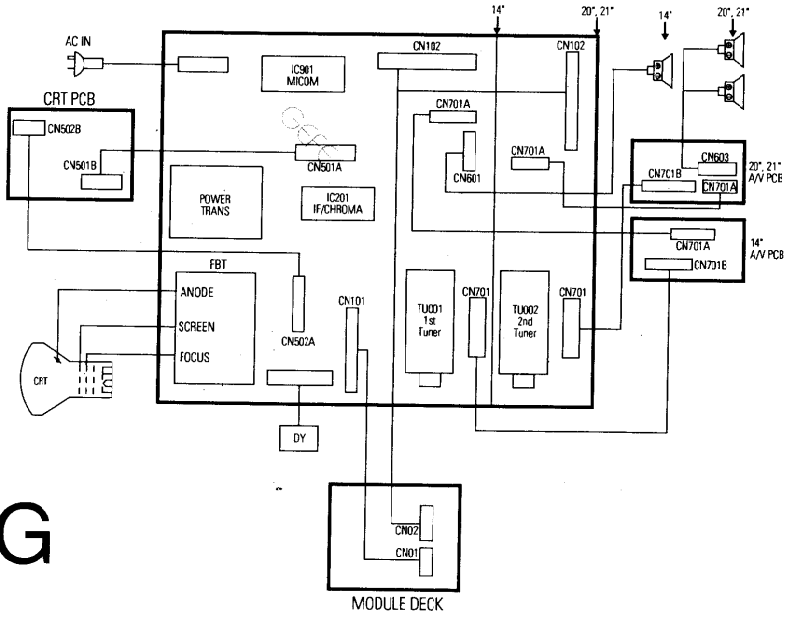


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# SAMSUNG

Telaio SCV 11 A, B

Mod. TVP 5050 XT/SW SX

Mod. TVP 5350 XSTS

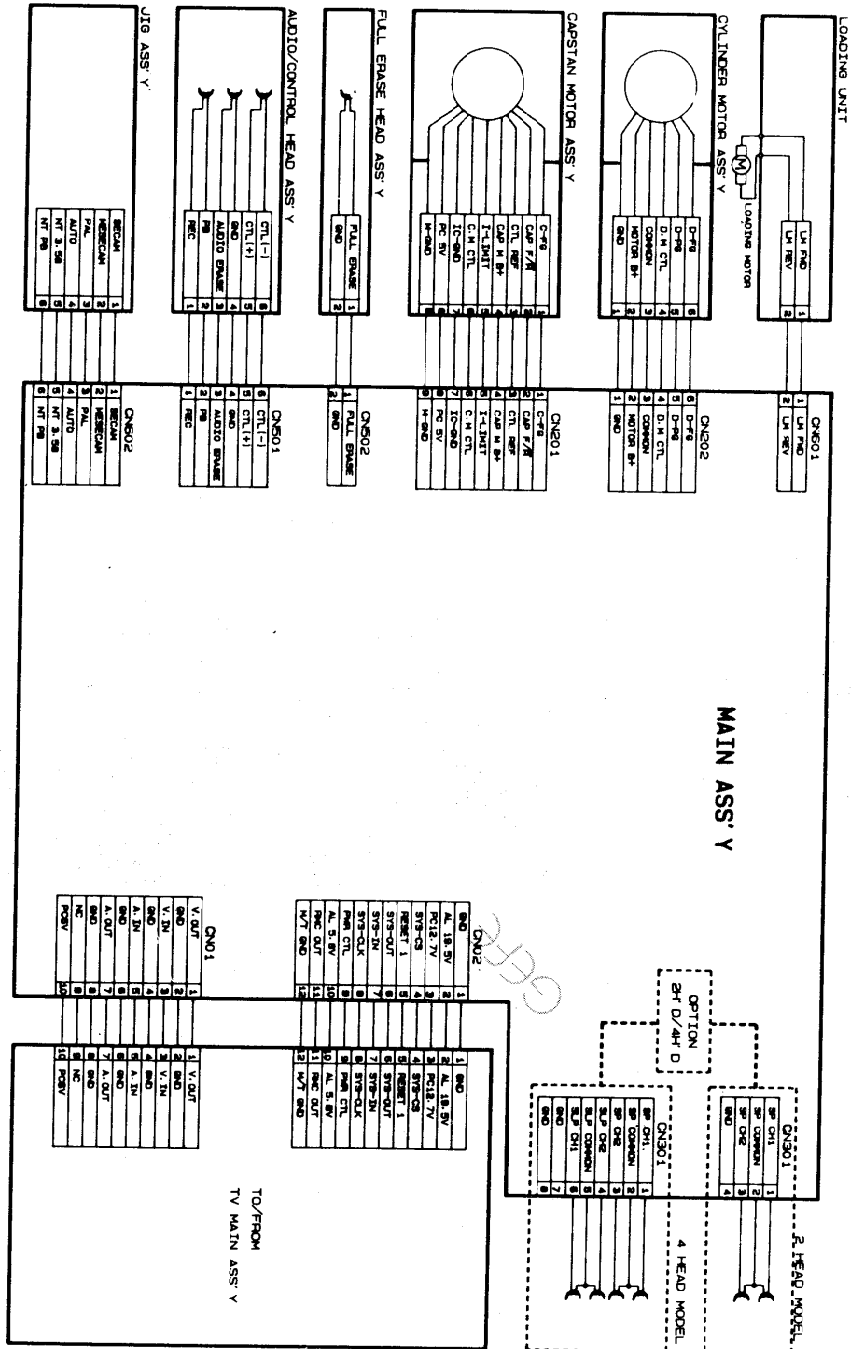
Mod. TVP 5350 SXT S1 SX

Mod. VVP 5350 XSTSM SX

| PIN NO | IC       | IC203* | IC202 | IC701 | IC901* | IC101* | IC702 | IC703 | IC704 |
|--------|----------|--------|-------|-------|--------|--------|-------|-------|-------|
| 1      | TD48395F | 5.0    | -     | 1.8   | 4.2    | 6.1    | 6.1   | 6.1   | 6.1   |
| 2      | 1.1      | -      | -     | -     | 3.2    | 0.9    | 0.9   | -     | -     |
| 3      | 8.1      | -      | -     | 2.0   | -      | 6.1    | 6.1   | 6.1   | 6.1   |
| 4      | -        | -      | 0.9   | 4.4   | 0.6    | -      | -     | -     | -     |
| 5      | -        | 0.5    | 0.9   | -     | 4.3    | -      | -     | -     | 0.9   |
| 6      | -        | -      | -     | 1.7   | 3.5    | 6.1    | 6.1   | 5.3   | 5.3   |
| 7      | 3.3      | -      | -     | 1.7   | 4.3    | -      | -     | -     | 9.0   |
| 8      | 4.7      | -      | -     | 5.1   | 0.3    | 5.3    | 5.3   | -     | -     |
| 9      | 2.9      | 5.0    | 0.9   | 5.1   | 4.3    | 9.0    | 9.0   | -     | -     |
| 10     | 2.9      | -      | 0.9   | -     | 3.5    | -      | -     | -     | -     |
| 11     | -        | 3.0    | 0.9   | 1.20  | 4.3    | -      | -     | -     | -     |
| 12     | -        | 3.1    | 4.3   | 1.8   | 9.0    | -      | -     | -     | -     |
| 13     | -        | -      | -     | -     | 4.3    | -      | -     | -     | -     |
| 14     | -        | 1.6    | 4.3   | 6.1   | 4.3    | -      | -     | -     | -     |
| 15     | 0.5      | -      | -     | 0.6   | -      | -      | -     | -     | -     |
| 16     | 2.8      | 1.4    | 9.0   | 1.8   | -      | -      | -     | -     | -     |

Terminal Voltages of ICs

[Unit: Voltage (V)]



**Terminal Voltages of IC and TR (Continued)**
**IC301** TDA8356

| PIN NO. | PIN NAME  | VOLTAGES (V) |
|---------|-----------|--------------|
| 1       | VD-INPUT  | 2.2          |
| 2       | VD+ INPUT | 2.2          |
| 3       | Vcc       | 15.8         |
| 4       | OUTPUT    | 7.6          |
| 5       | GND       | -            |
| 6       | VFB       | 43.2         |
| 7       | OUT       | 8.0          |
| 8       | VO        | -            |
| 9       | VI        | 7.7          |

**IC602** TDA7056

| PIN NO. | PIN NAME | VOLTAGES (V) |
|---------|----------|--------------|
| 1       | NC       | 12.1         |
| 2       | Vcc      | 12.1         |
| 3       | IN       | -            |
| 4       | GND      | -            |
| 5       | NC       | -            |
| 6       | A+       | 6.2          |
| 7       | GND      | -            |
| 8       | A-       | 6.0          |
| 9       | NC       | -            |

**IC902** 24C08, 24C04

| PIN NO. | PIN NAME | VOLTAGE (V) |
|---------|----------|-------------|
| 1       | GND      | -           |
| 2       | GND      | -           |
| 3       | GND      | -           |
| 4       | GND      | -           |
| 5       | SDA      | 4.8         |
| 6       | SCL      | 4.8         |
| 7       | GND      | -           |
| 8       | VDD      | 5.2         |

**IC601** TDA7057AQ

| PIN NO. | PIN NAME | VOLTAGES (V) |
|---------|----------|--------------|
| 1       | VOL 1    | 1.2          |
| 2       | SIG.GND  | -            |
| 3       | IN 1     | 2.4          |
| 4       | Vcc      | 12.1         |
| 5       | IN 2     | 2.4          |
| 6       | SIG.GND  | -            |
| 7       | VOL 2    | 1.2          |
| 8       | OUT 2+   | 5.6          |
| 9       | PWA GND  | -            |
| 10      | OUT 2-   | 5.7          |
| 11      | OUT 1-   | 5.7          |
| 12      | PWA GND  | -            |
| 13      | OUT 1+   | 5.7          |

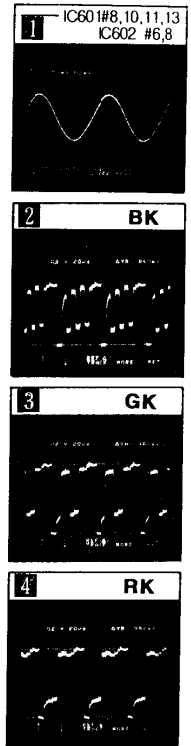
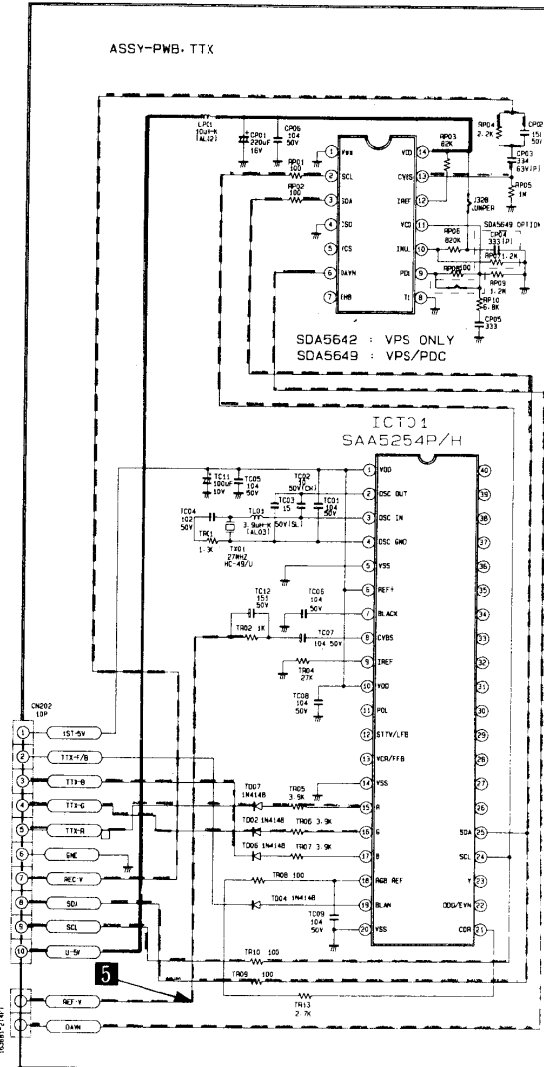
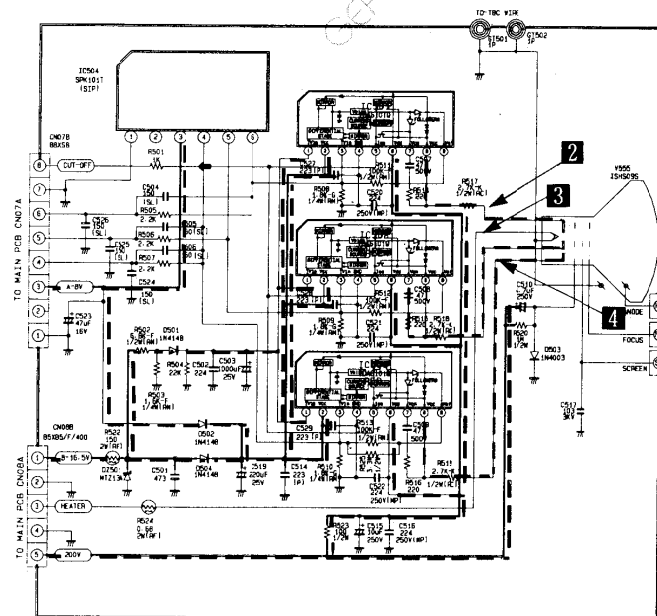
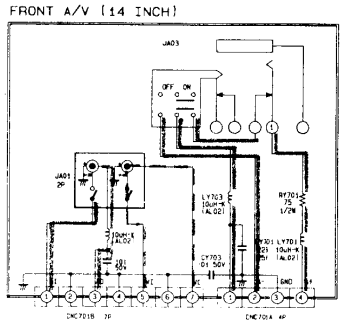
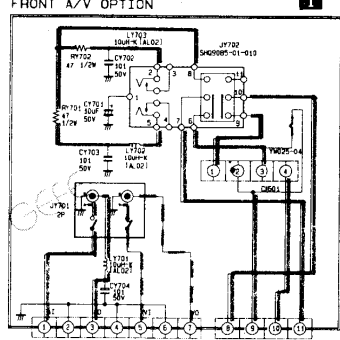
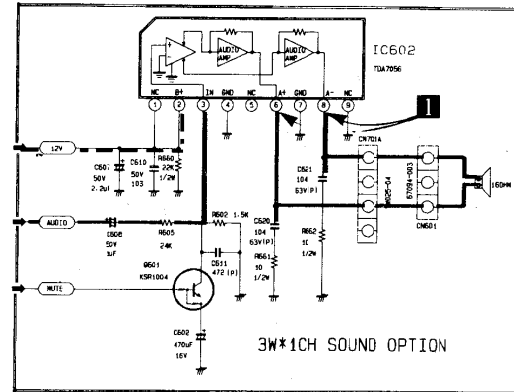
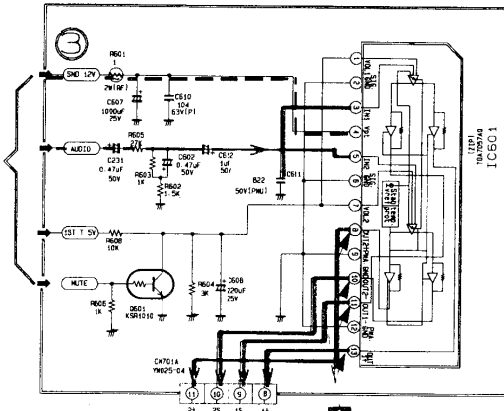
**Terminal Voltages of IC and TR (Continued)**
**IC201** TDA8374

| PIN NO. | PIN NAME                 | VOLTAGES (V) |
|---------|--------------------------|--------------|
| 1       | SOUND IF INPUT           | -            |
| 2       | EXT AUDIO INPUT          | 3.9          |
| 3       | VCO REF FILTER           | 3.6          |
| 4       | VCO REF FILTER           | 3.6          |
| 5       | PLL LOOP FILTER          | 2.7          |
| 6       | IF VIDEO OUTPUT          | 3.4          |
| 7       | SCL                      | 4.7          |
| 8       | SDA                      | 4.7          |
| 9       | BANDGAP DECOUPLING       | 6.7          |
| 10      | CHROMA INPUT             | -            |
| 11      | Y/CVBS INPUT             | 3.4          |
| 12      | MAIN B+                  | 8.0          |
| 13      | INT CVBS INPUT           | 3.8          |
| 14      | GND                      | -            |
| 15      | AUDIO OUT                | 3.4          |
| 16      | DECOUPLING FILTER TUNING | 3.6          |
| 17      | EXT CVBS INPUT           | 3.4          |
| 18      | BLACK CURRENT INPUT      | 6.8          |
| 19      | BLUE OUTPUT              | 2.6          |
| 20      | GREEN OUTPUT             | 2.5          |
| 21      | RED OUTPUT               | 2.7          |
| 22      | BEAM CUR LIMITER         | 2.9          |
| 23      | RED INPUT                | 3.4          |
| 24      | GREEN INPUT              | 3.4          |
| 25      | BLUE INPUT               | 3.4          |
| 26      | RGB SWITCH INPUT         | 0.2          |
| 27      | Y INPUT                  | 1.9          |
| 28      | Y OUTPUT                 | 2.5          |

| PIN NO. | PIN NAME                   | VOLTAGES (V) |
|---------|----------------------------|--------------|
| 29      | B-Y OUTPUT                 | 1.8          |
| 30      | R-Y OUTPUT                 | 1.8          |
| 31      | B-Y OUTPUT                 | 3.9          |
| 32      | R-Y INPUT                  | 3.9          |
| 33      | SECAM REF OUTPUT           | 1.6          |
| 34      | X-TAL (3.58)               | 2.6          |
| 35      | X-TAL (4.43)               | 2.6          |
| 36      | LOOPFILTER BURST PHASE DET | 4.8          |
| 37      | VCC                        | 8.0          |
| 38      | CVBS OUTPUT                | 3.3          |
| 39      | BLACK PEAK HOLD CAPACITOR  | 4.0          |
| 40      | HOR. OUTPUT                | 0.4          |
| 41      | SANDCASTLE OUTPUT          | 0.5          |
| 42      | PHI2 FILTER                | 4.1          |
| 43      | PHI 1 FILTER               | 3.9          |
| 44      | GND                        | -            |
| 45      | EAST-WEST DRIVE            | -            |
| 46      | VERT DRIVE POS             | 2.2          |
| 47      | VERT DRIVE NEG             | 2.2          |
| 48      | IF INPUT                   | 4.2          |
| 49      | IF INPUT                   | 4.2          |
| 50      | EHT/OVP INPUT              | 2.1          |
| 51      | VERT. SAWTOOTH CAPACITOR   | 3.9          |
| 52      | REF. CURR INPUT            | 3.9          |
| 53      | AGC DECOUPLING CAPACITOR   | 3.2          |
| 54      | TUNER AGC OUTPUT           | 5.8          |
| 55      | AUDIO DEEMPHASSIS          | 3.0          |
| 56      | DECOUPLING SOUND DEMOD.    | 4.0          |

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- EXPRESSION
- 1 Resistance is shown ohm  $\times 1,000$  or  $\times 1,000,000$
  - 2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in  $\mu\text{F}$ , the values more than 1 in  $\mu\text{F}$
  - 3 Unless otherwise noted in schematic all inductor values are expressed in  $\mu\text{H}$  and the values less than 1 in  $\text{mH}$
- NOTE  
 The circuits are subject to change without notice to improve the picture quality.

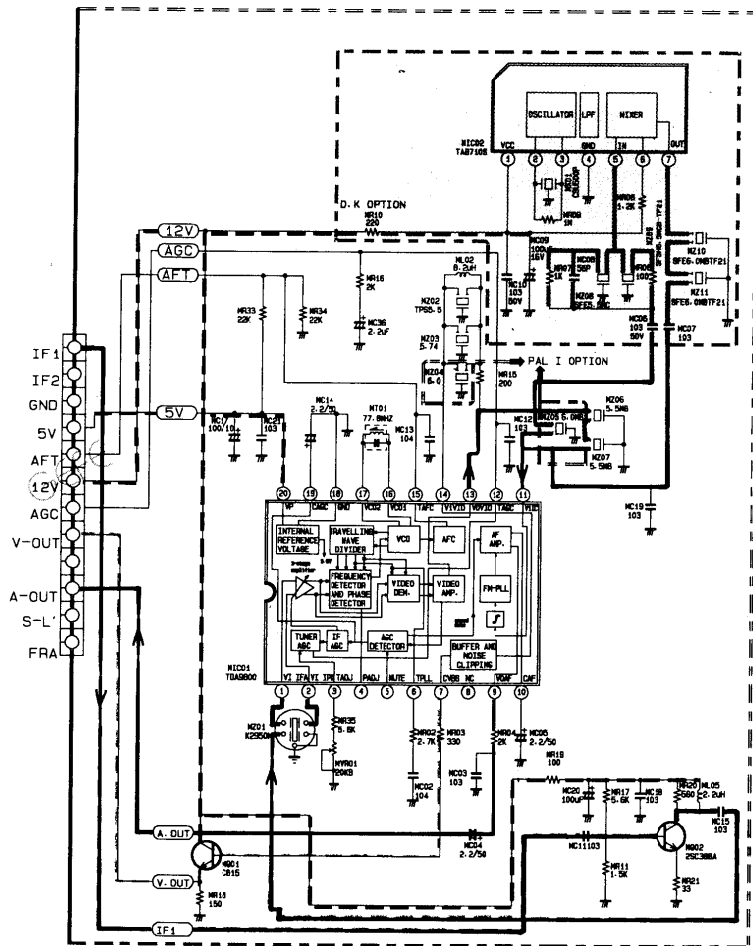


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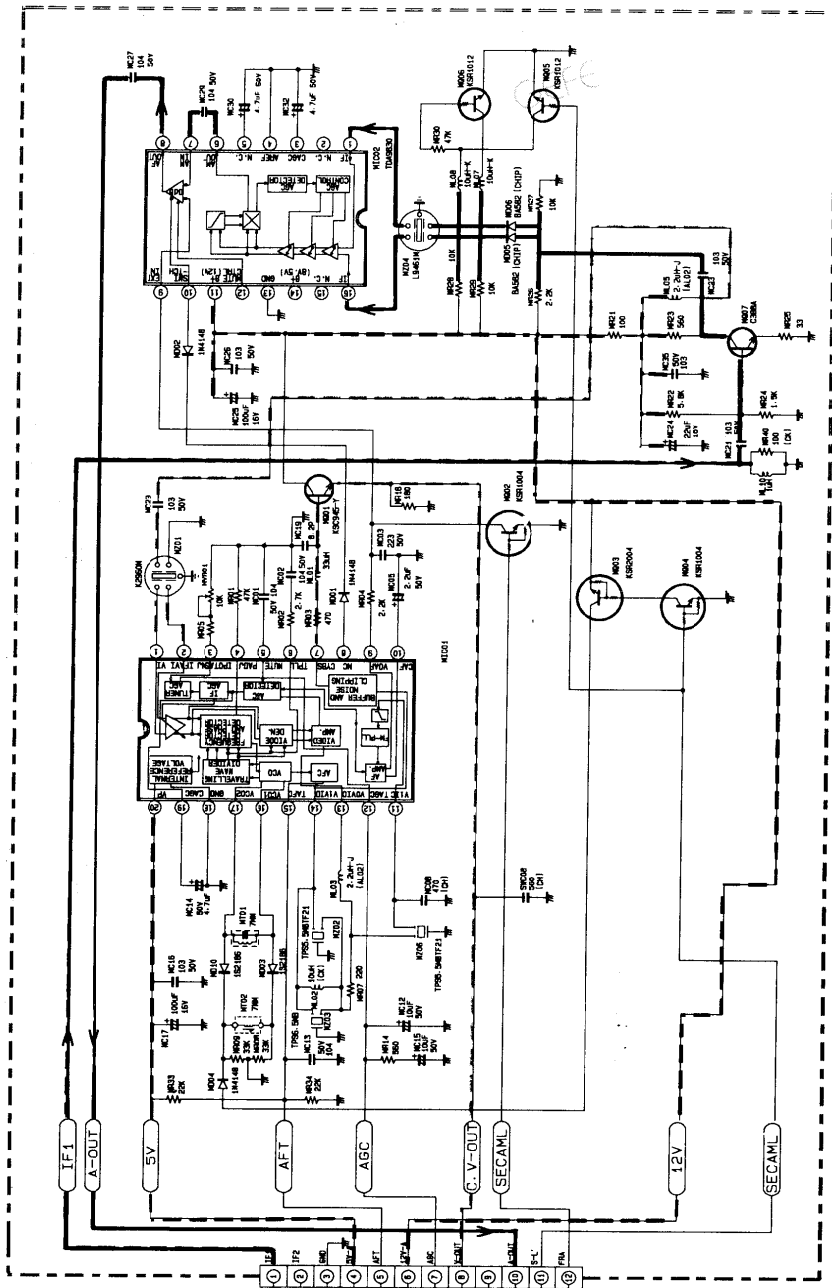
| KARAOKE CONTROL LOGIC |    |             | SYSTEM CONTROL LOGIC |             |             |
|-----------------------|----|-------------|----------------------|-------------|-------------|
| #2                    | #4 | OUTPUT (#8) | #10                  | OUTPUT (#7) | OUTPUT (#9) |
| H                     | L  | 1           | 2.2V                 | S-L         | #5          |
| L                     | H  | 3           | 4.5V                 | S-L         | S-L         |
| L                     | L  | 6           | 6.0V                 | #11         | S-L         |
| H                     | H  | X           | 6.0V                 | #11         | #5          |

| TC4008MP CONTROL LOGIC |    |     |     |      |      |      |
|------------------------|----|-----|-----|------|------|------|
| #12(#8BIT)             | #9 | #10 | #11 | #14  | #15  | #4   |
| L                      | L  | L   | L   | 12   | 2    | 5    |
| L                      | L  | L   | H   | 13   | 2    | 5    |
| L                      | L  | H   | L   | 12   | 1    | 5    |
| L                      | L  | H   | H   | 13   | 1    | 5    |
| L                      | H  | L   | L   | 12   | 2    | 3    |
| L                      | H  | L   | H   | 13   | 2    | 3    |
| L                      | H  | H   | L   | 12   | 1    | 3    |
| L                      | H  | H   | H   | 13   | 1    | 3    |
| H                      | #  | #   | #   | NONE | NONE | NONE |

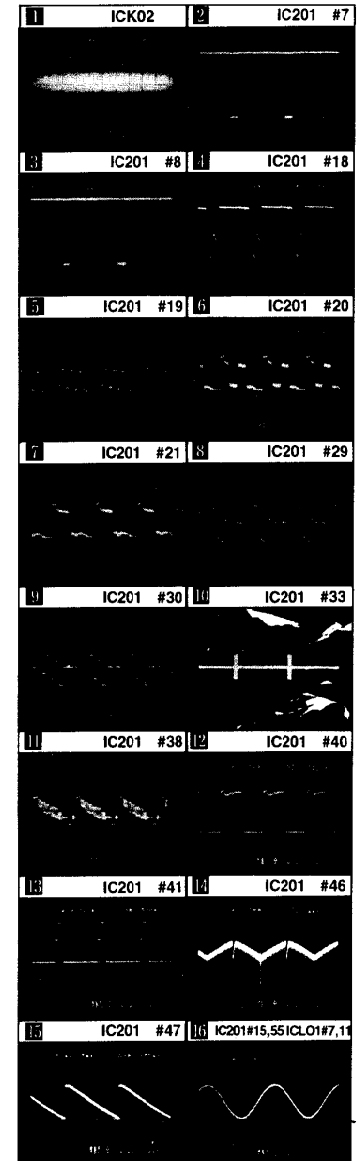
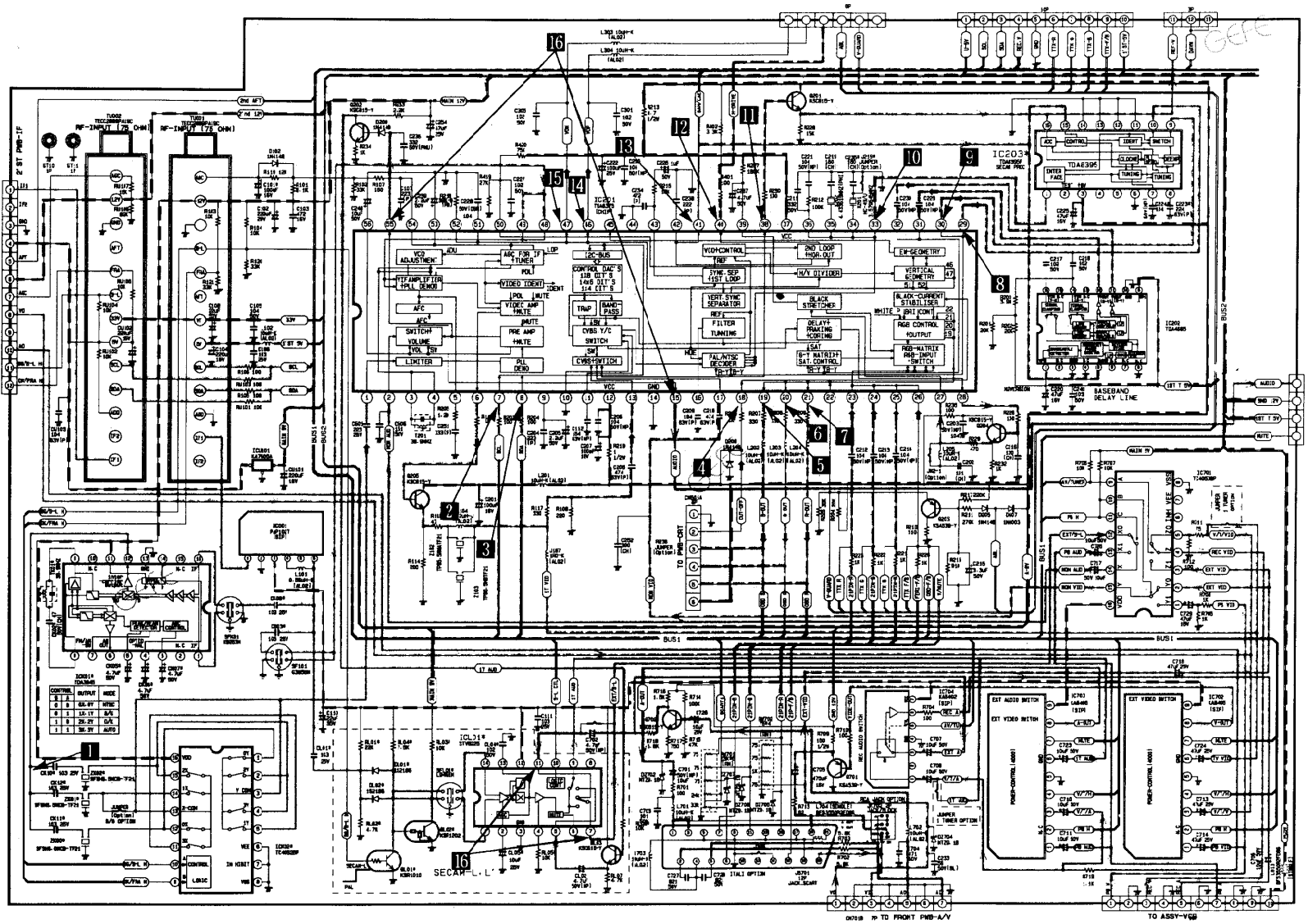
| S/M FILTER SPEC             |            |            |            |            |
|-----------------------------|------------|------------|------------|------------|
|                             | SAM1       | SAM2       | SAM3       | SAM4       |
| PAL/SECAM B/V: V/K          | QFN K3250K | X          | X          | X          |
| PAL/SECAM B/V: V/K: VIT     |            | X          | X          | X          |
| PAL/SECAM B/V: V/K: WT3: DB | QFN K6263K | X          | QFN K6263H | X          |
| PAL/SECAM B/V: F-L-L        | X          | QFN 61875H |            | QFN L9461H |
| B/V: M/L                    | QFN 61966H | X          | X          | X          |
| PAL/SECAM B/V: M/L          | QFN 61966H | X          | X          | X          |
| PAL 1                       | QFN J1909H | X          | X          | X          |



GEFE



### 12-2-2 A/V SWITCHING

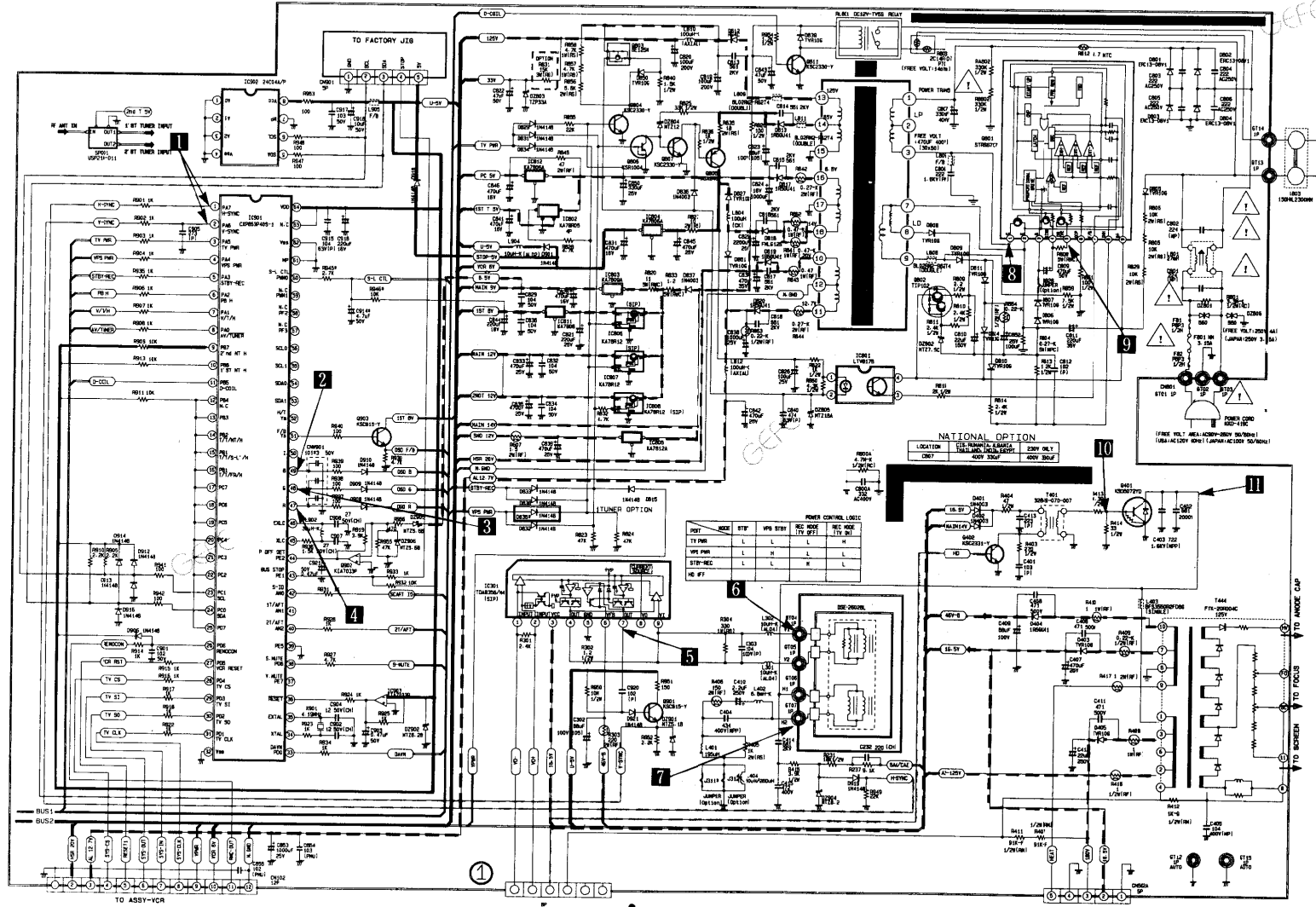


Power Line

# 12-2 TV

## 12-2-1 MICOM

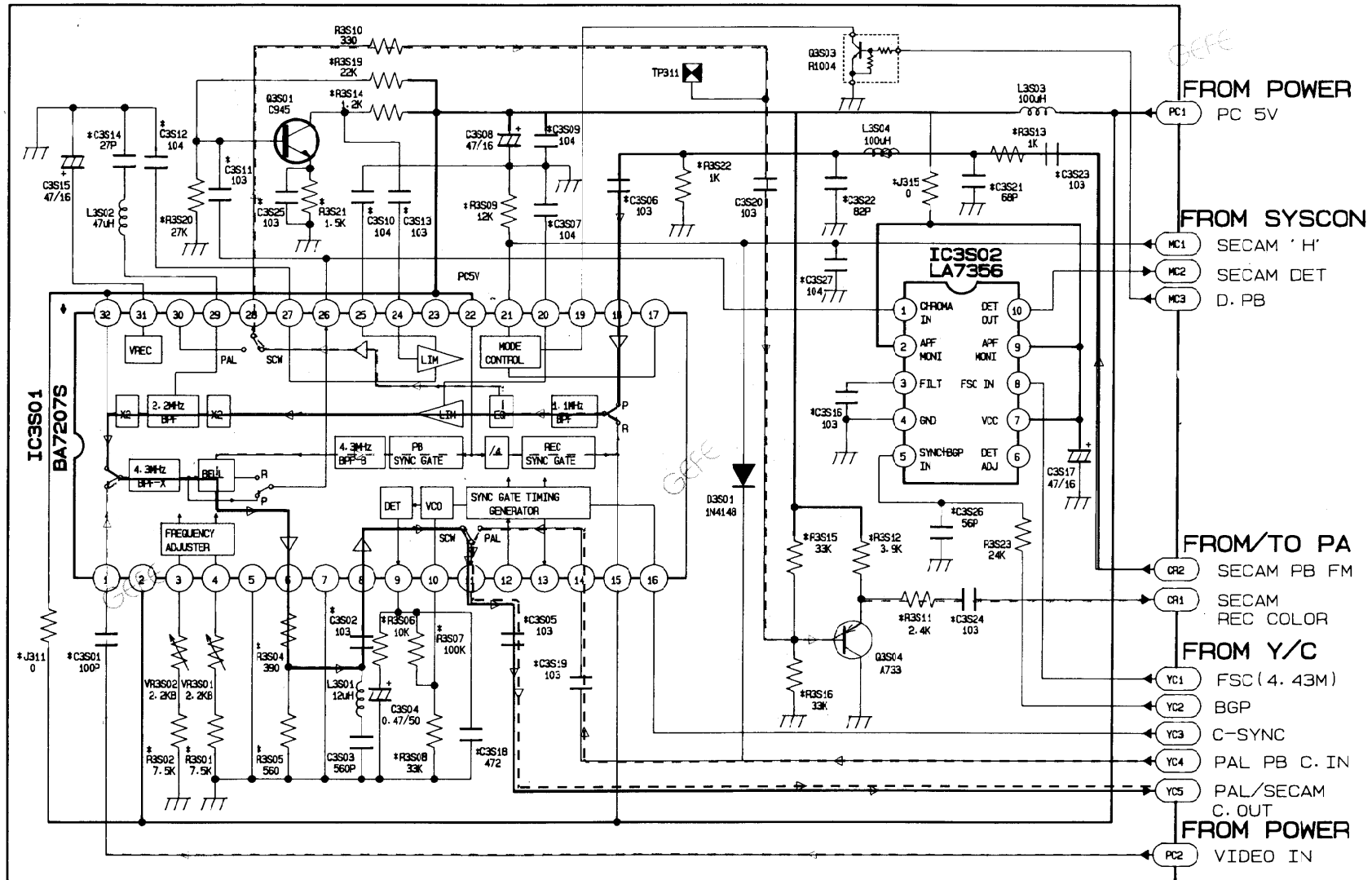
6328



|    |           |    |           |
|----|-----------|----|-----------|
| 1  | IC901 #1  | 1  | IC901 #2  |
| 2  | IC901 #49 | 3  | IC901 #48 |
| 4  | IC901 #47 | 5  | IC301 #7  |
| 6  | V1        | 7  | H2        |
| 8  | Q801 #1   | 8  | Q801 #1   |
| 8  | Q801 #1   | 9  | Q801 #5   |
| 10 | Q401 B    | 11 | Q401 C    |

12-1-7 SECAM

RED --- PB C PROCESS (PAL) ( & A ) --- REC C PROCESS  
 --- PB C PROCESS (SECAM)



\* : CHIP COMPONENT

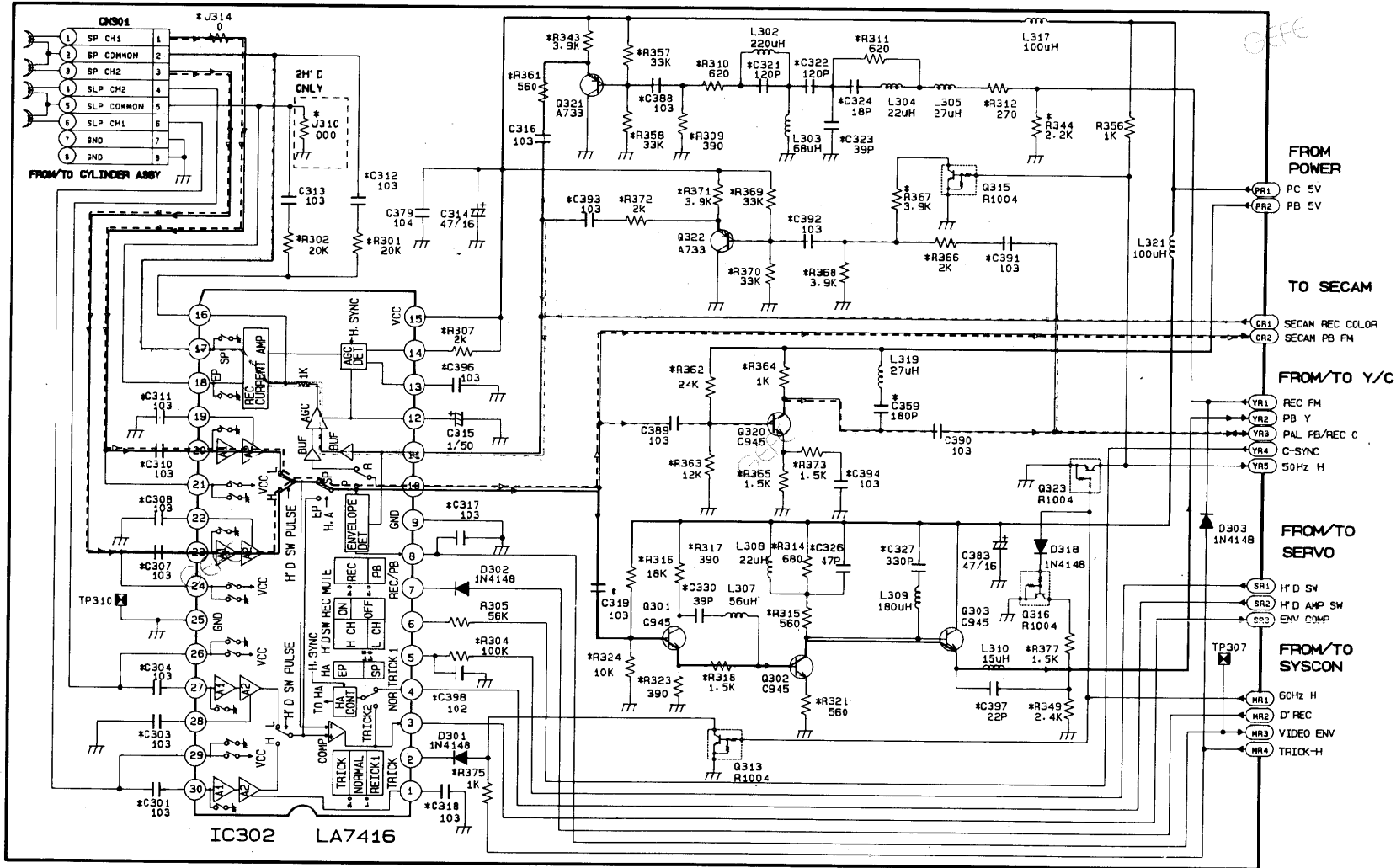
| MODE   | STOP | REC | PLAY |
|--------|------|-----|------|
| IC3S01 |      |     |      |
| 1      | 2.4  | 2.4 | 2.4  |
| 2      | 5.0  | 5.0 | 5.0  |
| 3      | 1.8  | 1.8 | 1.8  |
| 4      | 1.8  | 1.8 | 1.8  |
| 5      | 0    | 0   | 0    |
| 6      | 1.8  | 1.8 | 1.8  |
| 7      | 0    | 0   | 0    |
| 8      | 3.0  | 3.0 | 3.0  |
| 9      | 1.8  | 1.8 | 1.8  |
| 10     | 2.0  | 2.0 | 2.0  |
| 11     | 2.3  | 2.3 | 2.3  |
| 12     | 2.4  | 2.4 | 2.4  |
| 13     | 2.4  | 2.4 | 2.4  |
| 14     | 3.0  | 3.0 | 3.0  |
| 15     | 5.0  | 5.0 | 5.0  |
| 16     | 4.2  | 4.2 | 4.2  |
| 17     | 4.8  | 4.8 | 4.8  |
| 18     | 2.5  | 2.5 | 2.5  |
| 19     | 4.8  | 4.8 | 0    |
| 20     | 0    | 0   | 2.5  |
| 21     | 4.8  | 4.8 | 4.8  |
| 22     | 5.0  | 5.0 | 5.0  |
| 23     | 5.0  | 5.0 | 5.0  |
| 24     | 2.0  | 2.0 | 2.0  |
| 25     | 2.0  | 2.0 | 2.0  |
| 26     | 2.0  | 2.0 | 2.0  |
| 27     | 2.3  | 2.3 | 2.3  |
| 28     | 2.4  | 2.4 | 2.4  |
| 29     | 1.0  | 1.0 | 1.8  |
| 30     | 3.0  | 3.0 | 3.0  |
| 31     | 2.5  | 2.5 | 2.5  |
| 32     | 5.0  | 5.0 | 5.0  |



12-1-6 PRE-AMP

6822

RED ——— PB Y PROCESS  
 - - - - - PB C PROCESS

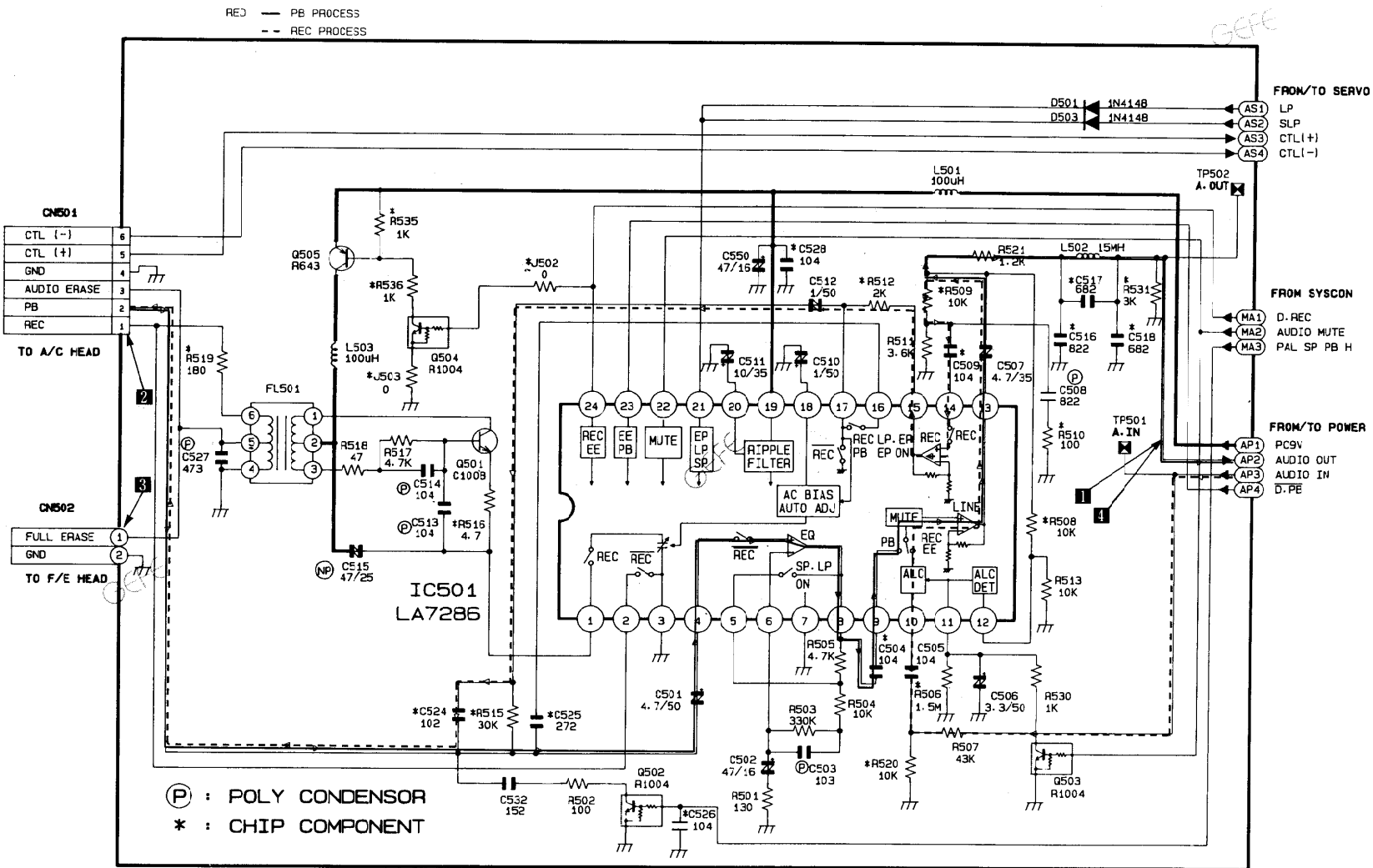


| MODE | E/E | PLAY | REC |
|------|-----|------|-----|
| 1    | 2.0 | 2.0  | 3.6 |
| 2    | 2.0 | 2.0  | 2.0 |
| 3    | 0   | 0    | 1.2 |
| 4    | 0   | 0    | 0   |
| 5    | 0   | 0    | 0   |
| 6    | 0.1 | 0.1  | 0.1 |
| 7    | 0   | 0    | 4.5 |
| 8    | 0.3 | 2.2  | 0   |
| 9    | 0   | 0    | 0   |
| 10   | 2.2 | 2.2  | 3.2 |
| 11   | 0   | 0    | 3.2 |
| 12   | 0   | 0    | 1.6 |
| 13   | 2.5 | 2.5  | 2.5 |
| 14   | 5.0 | 5.0  | 4.0 |
| 15   | 5.0 | 5.0  | 5.0 |
| 16   | 0   | 0    | 1.5 |
| 17   | 0   | 0    | 2.3 |
| 18   | 0   | 0    | 0   |
| 19   | 2.0 | 2.0  | 3.6 |
| 20   | 0.6 | 0.6  | 0.1 |
| 21   | 0   | 0    | 4.0 |
| 22   | 2.0 | 2.0  | 3.6 |
| 23   | 0.6 | 0.6  | 0   |
| 24   | 0   | 0    | 4.0 |
| 25   | 0   | 0    | 0   |
| 26   | 0   | 0    | 0   |
| 27   | 0.6 | 0.6  | 0.1 |
| 28   | 2.0 | 2.0  | 3.6 |
| 29   | 0   | 0    | 0   |
| 30   | 0.6 | 0.6  | 0.1 |

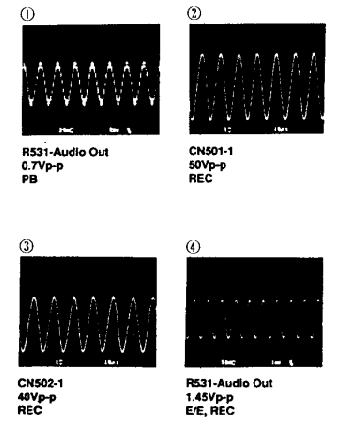
\* : CHIP COMPONENT



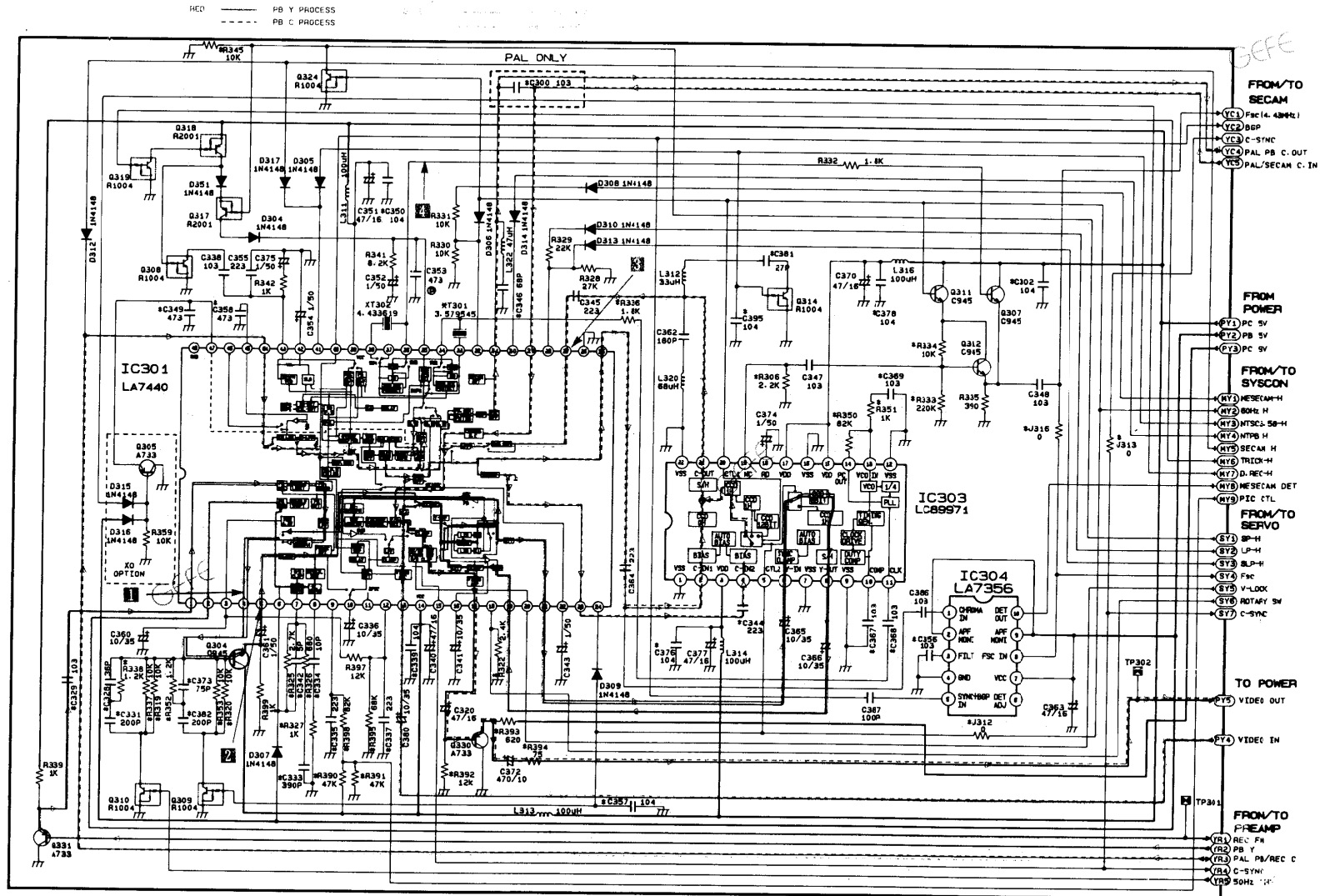
12-1-5 AUDIO



| MODE  | STOP | REC | PLAY | MODE | STOP | REC | PLAY |
|-------|------|-----|------|------|------|-----|------|
| IC501 |      |     |      | Q501 |      |     |      |
| 1     | 9.0  | 4.0 | 9.0  | E    | 9.0  | 4.0 | 9.0  |
| 2     | 0    | 0   | 0    | F    | 9.0  | 2.5 | 9.0  |
| 3     | 0    | 0   | 0    | D    | 9.0  | 8.9 | 9.0  |
| 4     | 4.0  | 4.0 | 4.0  | Q502 |      |     |      |
| 5     | 4.0  | 4.0 | 4.0  | E    | 0    | 0   | 0    |
| 6     | 4.0  | 4.0 | 4.0  | F    | 0.3  | 0   | 0.3  |
| 7     | 0    | 0   | 0    | C    | 0.3  | 8.7 | 0.3  |
| 8     | 4.0  | 4.0 | 4.0  | Q503 |      |     |      |
| 9     | 4.0  | 4.0 | 4.0  | E    | 0    | 0   | 0    |
| 10    | 4.0  | 4.0 | 4.0  | B    | 0    | 4.9 | 0    |
| 11    | 0.5  | 0.5 | 0    | C    | 9.0  | 0   | 3.0  |
| 12    | 0    | 0   | 0    | Q504 |      |     |      |
| 13    | 4.0  | 4.0 | 4.0  | E    | 8.9  | 8.9 | 8.9  |
| 14    | 4.0  | 4.0 | 4.0  | B    | 8.9  | 0   | 8.9  |
| 15    | 4.0  | 4.0 | 4.0  | C    | 0.2  | 8.8 | 0.2  |
| 16    | 0    | 4.0 | 0    | Q505 |      |     |      |
| 17    | 4.0  | 4.0 | 4.0  | E    | 0    | 0   | 0    |
| 18    | 0    | 0.8 | 0    | B    | 0    | 0   | 0    |
| 19    | 9.0  | 9.0 | 9.0  | C    | 0    | 0   | 0    |
| 20    | 9.0  | 9.0 | 9.0  | Q506 |      |     |      |
| 21    | 0    | 0   | 0    | E    | 0    | 0   | 0    |
| 22    | 0.8  | 0.8 | 0.8  | B    | 0.8  | 0.8 | 0.8  |
| 23    | 4.5  | 4.5 | 0.8  | C    | 9.5  | 0.5 | 0    |
| 24    | 0    | 5.0 | 0    |      |      |     |      |



12-1-4 VIDEO

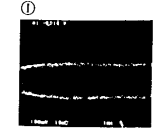


Ⓟ : POLY CONDENSATOR  
 \* : CHIP COMPONENT

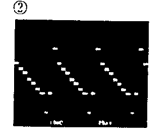
CEFE

| MODE | E/E | PLAY | REC |
|------|-----|------|-----|
| 1    | 3.0 | 3.6  | 3.0 |
| 2    | 2.4 | 3.6  | 2.5 |
| 3    | 4.2 | 4.2  | 4.2 |
| 4    | 2.1 | 3.2  | 2.1 |
| 5    | 2.8 | 3.0  | 2.8 |
| 6    | 2.0 | 4.4  | 2.8 |
| 7    | 2.0 | 4.4  | 2.0 |
| 8    | 2.6 | 2.8  | 2.6 |
| 9    | 2.5 | 2.5  | 2.5 |
| 10   | 1.4 | 1.5  | 1.5 |
| 11   | 2.0 | 2.0  | 0   |
| 12   | 2.8 | 2.8  | 2.8 |
| 13   | 2.6 | 3.1  | 2.6 |
| 14   | 5.0 | 5.0  | 5.0 |
| 15   | 0   | 0    | 0   |
| 16   | 3.1 | 3.1  | 3.1 |
| 17   | 0.8 | 0.9  | 0.9 |
| 18   | 0   | 0    | 0   |
| 19   | 2.0 | 2.0  | 2.0 |
| 20   | 0   | 0    | 0   |
| 21   | 1.0 | 1.0  | 1.0 |
| 22   | 2.2 | 2.2  | 2.2 |
| 23   | 2.5 | 2.4  | 2.4 |
| 24   | 0   | 0    | 0   |
| 25   | 2.5 | 2.5  | 2.4 |
| 26   | 0   | 0    | 0   |
| 27   | 2.5 | 2.4  | 2.5 |
| 28   | 0.8 | 2.5  | 0.8 |
| 29   | 1.9 | 1.8  | 1.9 |
| 30   | 0   | 0    | 0   |
| 31   | 0.4 | 2.4  | 0.4 |
| 32   | 0.4 | 0.4  | 0.4 |
| 33   | 3.6 | 3.6  | 3.6 |
| 34   | 2.5 | 2.4  | 2.5 |
| 35   | 2.0 | 2.0  | 2.2 |
| 36   | 2.5 | 2.5  | 2.5 |
| 37   | 0   | 0    | 0   |
| 38   | 3.8 | 3.8  | 3.8 |
| 39   | 5.0 | 5.0  | 5.0 |
| 40   | 0   | 0    | 0   |
| 41   | 0.3 | 0.3  | 0.3 |
| 42   | 3.0 | 3.0  | 3.0 |
| 43   | 2.8 | 2.8  | 2.8 |
| 44   | 2.3 | 3.2  | 2.2 |
| 45   | 4.2 | 0    | 0   |
| 47   | 0.6 | 1.2  | 1.8 |
| 48   | 0   | 0    | 0   |

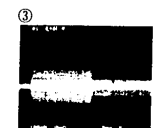
| MODE | E/E | PLAY | REC |
|------|-----|------|-----|
| 1    | 0   | 0    | 0   |
| 2    | 2.2 | 2.0  | 2.2 |
| 3    | 5.0 | 5.0  | 5.0 |
| 4    | 2.2 | 2.0  | 2.2 |
| 5    | 0   | 0    | 0   |
| 6    | 2.2 | 2.2  | 2.2 |
| 7    | 0   | 0    | 0   |
| 8    | 1.0 | 1.0  | 1.0 |
| 9    | 0   | 0    | 0   |
| 10   | 2.4 | 2.4  | 2.4 |
| 11   | 1.0 | 1.0  | 1.0 |
| 12   | 0   | 0    | 0   |
| 13   | 2.0 | 2.0  | 2.0 |
| 14   | 5.0 | 5.0  | 5.0 |
| 15   | 0   | 0    | 0   |
| 16   | 0   | 0    | 0   |
| 17   | 5.0 | 5.0  | 5.0 |
| 18   | 8.5 | 8.5  | 8.5 |
| 19   | 3.2 | 3.2  | 3.2 |
| 20   | 0   | 0    | 0   |
| 21   | 1.4 | 1.4  | 1.2 |
| 22   | 0   | 0    | 0   |



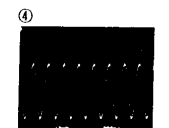
IC301-4 300mVp-p PLAY



IC301-5 500mVp-p REC



IC301-27 260mVp-p PB

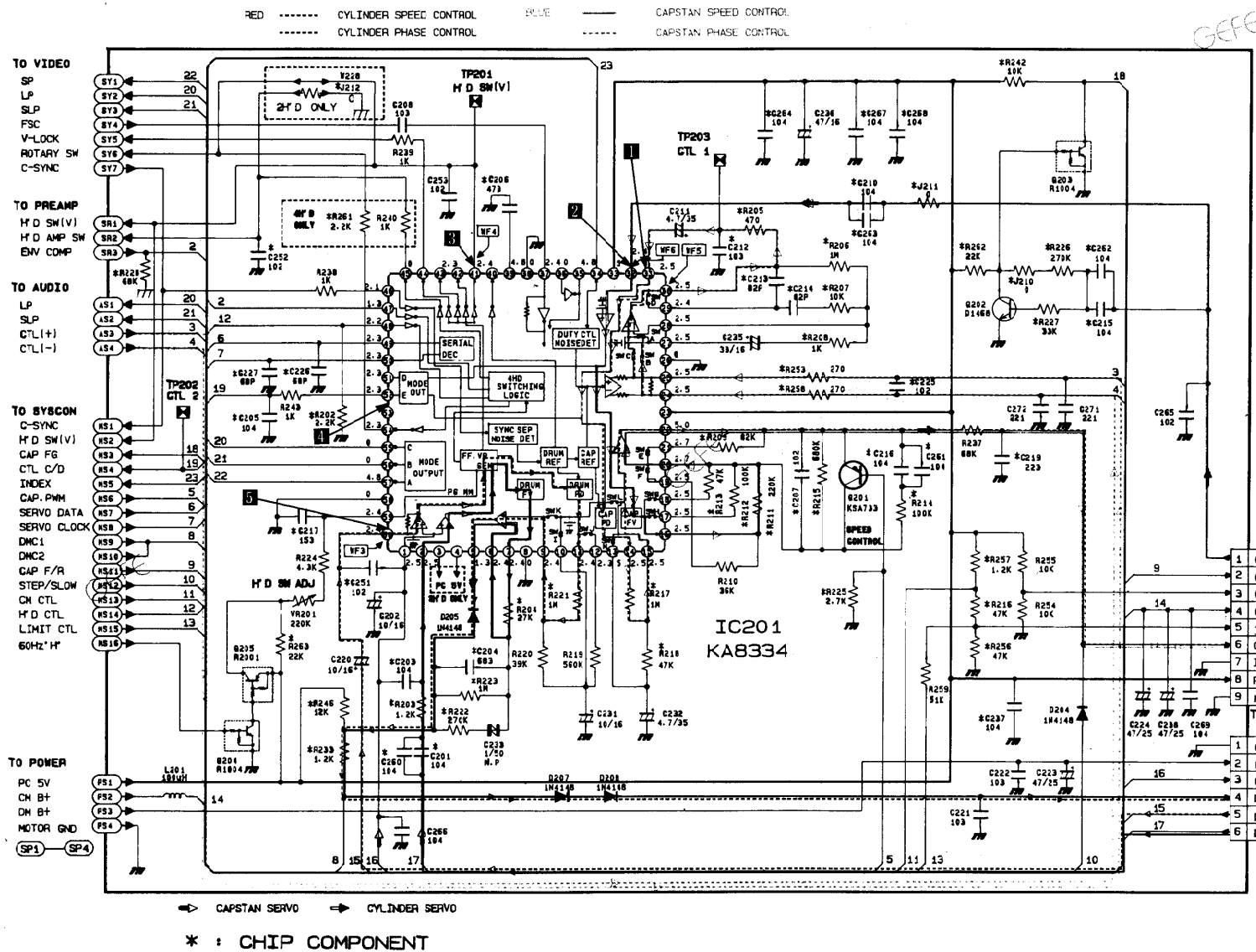


Q307-Emitter 420mVp-p E/E, PB, REC

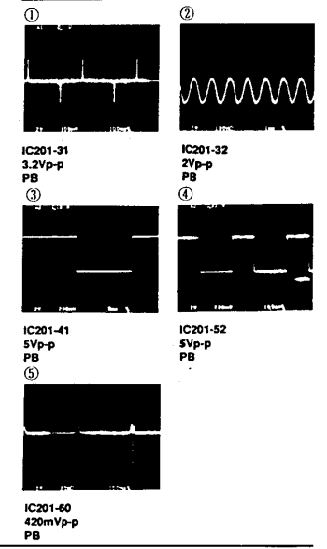
12-1-3 SERVO

60-4

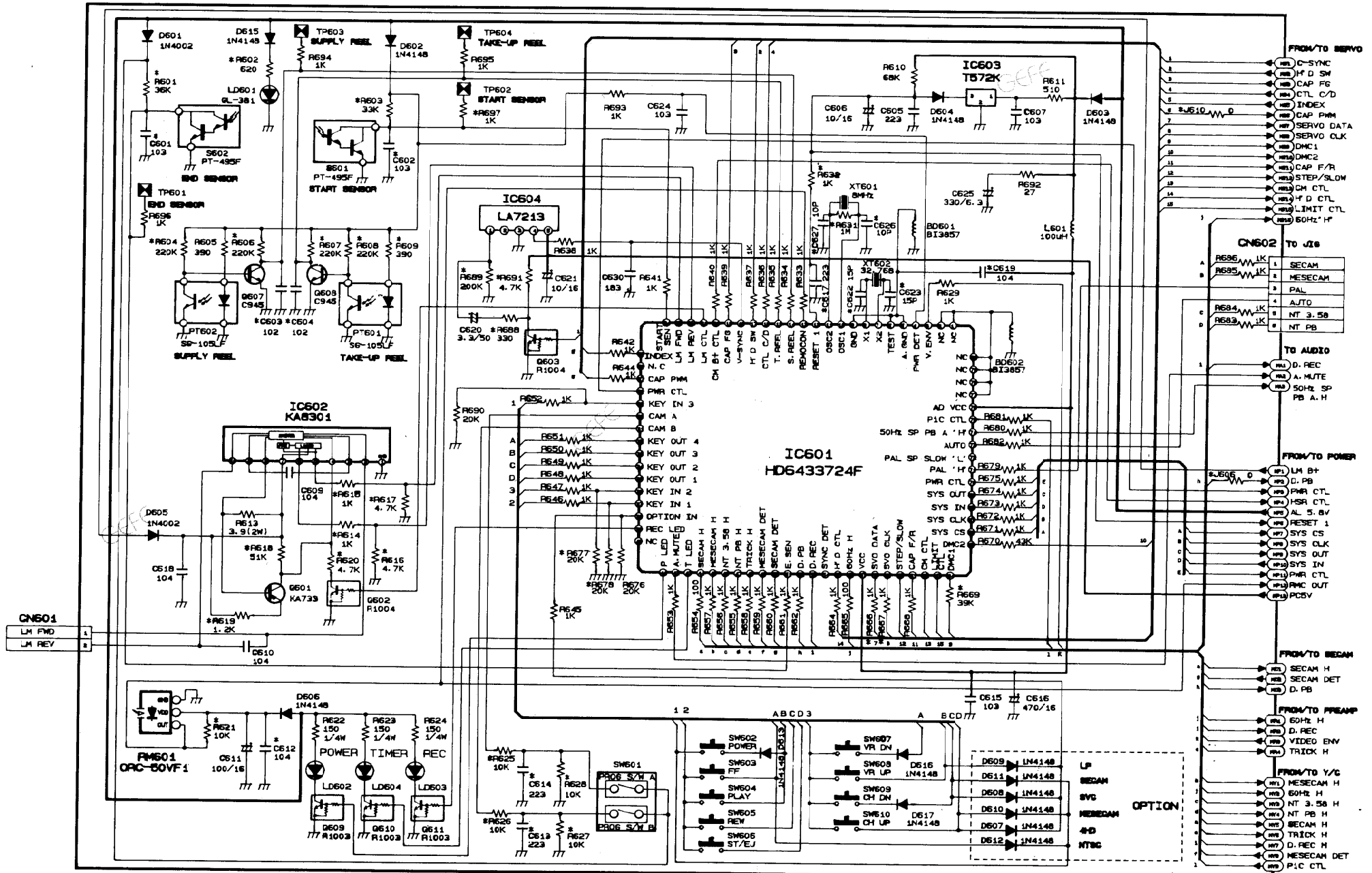
GEFE



| MODE  | STOP | REC | PLAY | MODE | STOP | REC | PLAY |
|-------|------|-----|------|------|------|-----|------|
| IC201 |      |     |      | 33   | 5.0  | 5.0 | 5.0  |
| 1     | 2.5  | 2.4 | 2.5  | 34   | 5.0  | 3.0 | 2.0  |
| 2     | 2.5  | 2.5 | 2.5  | 35   | 5.0  | 5.0 | 0    |
| 3     | 2.5  | 2.5 | 2.5  | 36   | 0    | 0   | 0    |
| 4     | 2.5  | 2.5 | 2.5  | 37   | 2.4  | 2.4 | 2.4  |
| 5     | 1.6  | 1.6 | 1.6  | 38   | 0    | 0   | 0    |
| 6     | 2.5  | 2.5 | 2.5  | 39   | 4.9  | 4.9 | 4.9  |
| 7     | 2.5  | 2.5 | 2.5  | 40   | 2.5  | 2.5 | 2.5  |
| 8     | 0    | 0   | 0    | 41   | 2.4  | 2.4 | 2.4  |
| 9     | 2.5  | 2.5 | 2.5  | 42   | 2.4  | 2.4 | 2.4  |
| 10    | 1.8  | 0.2 | 0    | 43   | 2.4  | 2.4 | 2.4  |
| 11    | 2.5  | 2.5 | 2.5  | 44   | 0    | 0   | 0    |
| 12    | 2.3  | 2.3 | 2.3  | 45   | 4.9  | 0   | 0    |
| 13    | 5.0  | 5.0 | 5.0  | 46   | 2.7  | 2.7 | 0.7  |
| 14    | 5.0  | 2.5 | 2.5  | 47   | 0.8  | 0.8 | 0    |
| 15    | 2.5  | 2.5 | 2.5  | 48   | 0.9  | 0.9 | 0.9  |
| 16    | 0    | 0   | 2.5  | 49   | 0.6  | 0.6 | 0.6  |
| 17    | 0.8  | 2.5 | 2.5  | 50   | 0.7  | 0.7 | 0.7  |
| 18    | 0.1  | 2.5 | 2.5  | 51   | 0    | 2.3 | 2.3  |
| 19    | 1.1  | 2.5 | 2.5  | 52   | 4.9  | 4.9 | 1.9  |
| 20    | 5.0  | 2.6 | 2.6  | 53   | 0    | 0   | 0    |
| 21    | 5.0  | 2.6 | 2.6  | 54   | 2.3  | 2.3 | 2.3  |
| 22    | 5.0  | 5.0 | 5.0  | 55   | 0    | 0   | 0    |
| 23    | 0    | 0   | 0    | 56   | 0    | 0   | 0    |
| 24    | 2.5  | 2.5 | 2.2  | 57   | 4.8  | 0   | 4.8  |
| 25    | 2.5  | 2.6 | 2.8  | 58   | 0    | 0   | 0    |
| 26    | 0    | 0   | 0    | 59   | 0    | 0.3 | 0.3  |
| 27    | 2.5  | 2.5 | 2.5  | 60   | 2.4  | 2.4 | 2.4  |
| 28    | 2.5  | 2.5 | 2.5  |      |      |     |      |
| 29    | 2.5  | 2.5 | 2.5  |      |      |     |      |
| 30    | 2.5  | 2.5 | 2.5  |      |      |     |      |
| 31    | 2.5  | 2.5 | 2.5  |      |      |     |      |
| 32    | 2.5  | 2.5 | 2.5  |      |      |     |      |



12-1-2 SYSTEM CONTROL

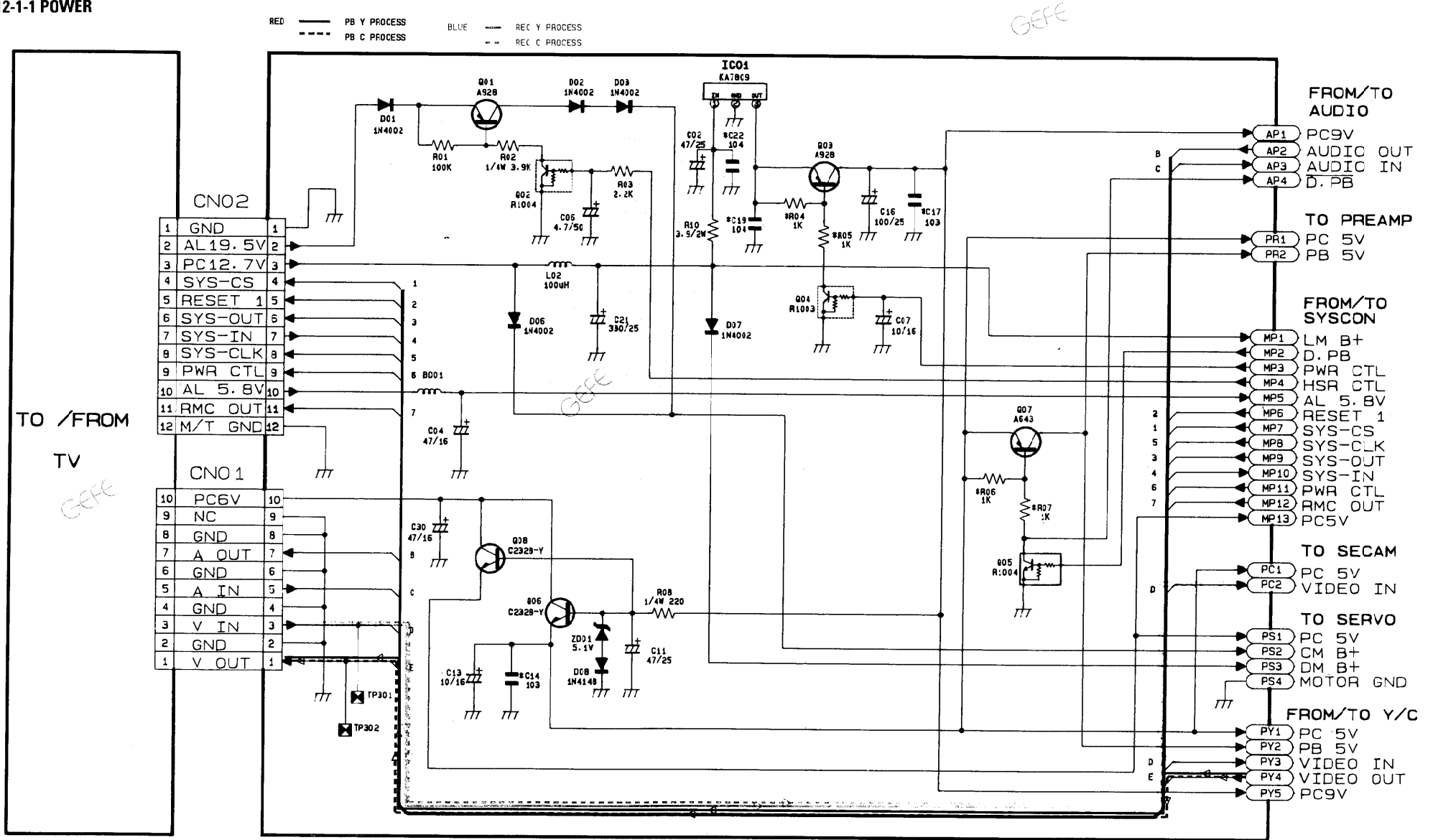


\* : CHIP COMPONENT

# 12. Schematic Diagrams

## 12-1 VCR

### 12-1-1 POWER



## Terminal Voltages of IC and TR

REPRODUCED FROM THE ORIGINAL DOCUMENT AS SUPPLIED BY THE MANUFACTURER. THIS DOCUMENT IS THE PROPERTY OF THE MANUFACTURER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE MANUFACTURER ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DOCUMENT. THE MANUFACTURER ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DOCUMENT. THE MANUFACTURER ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DOCUMENT.

### \* Conditions of Measurement

1. Normal Condition
2. Receiving Color Bar Pattern
3. DC Voltage

**Q801** STR6707

Units :Volts

| PIN NO. | PIN NAME | STAND-BY | POWER ON |
|---------|----------|----------|----------|
| 1       | C        | 298      | 291      |
| 2       | E        | -        | -        |
| 3       | B        | 0.8      | 0.5      |
| 4       | SINK     | -        | 0.7      |
| 5       | DRIVE    | -        | 1.3      |
| 6       | OCP      | -        | -        |
| 7       | F/B      | -        | -        |
| 8       | INH      | -        | 1.3      |
| 9       | B+       | 6.3      | 7.7      |

**IC801** LTV817B

Units :Volts

| PIN NO. | STAND-BY | POWER |
|---------|----------|-------|
| 1       | 9.2      | 14.3  |
| 2       | 8.2      | 13.3  |
| 3       | 3.2      | 1.2   |
| 4       | 6.3      | 7.7   |

**IC501-IC503** TDA6101Q

Units :Volts

| PIN NO. | PIN NAME | VOLTAGES (V) |
|---------|----------|--------------|
| 1       | Vip      | 2.1          |
| 2       | Vcc      | 12.3         |
| 3       | Vin      | 2.1          |
| 4       | GND      | -            |
| 5       | Iom      | 8.3          |
| 6       | Vdd      | 172.6        |
| 7       | Vcn      | 96-120       |
| 8       | Vcc      | 96-120       |
| 9       | Vof      | 96-120       |

## Terminal Voltages of IC and TR (Continued)

**IC901** CXP853P40S-1

| PIN NO. | PIN NAME  | VOLTAGES (V) |
|---------|-----------|--------------|
| 1       | H-sync    | 1.2          |
| 2       | V-sync    | 0.0          |
| 3       | TV POWER  | 5.1          |
| 4       | VPS POWER | -            |
| 5       | STBY-REC  | -            |
| 6       | PB-H      | 0.0          |
| 7       | V/T/H     | -            |
| 8       | AV/TUNER  | 0.0          |
| 9       | 2nd NTH   | 5.1          |
| 10      | 1st NTH   | 5.1          |
| 11      | D-coil    | -            |
| 12-22   | Not used  | 5.1          |
| 23      | SCL       | 4.7          |
| 24      | SDA       | 4.7          |
| 25      | No used   | 5.1          |
| 26      | REMOCON   | 5.4          |
| 27      | VCR RESET | 5.1          |
| 28      | TV CS     | 4.2          |
| 29      | TV SI     | 4.0          |
| 30      | TV SO     | 2.1          |
| 31      | TV CLK    | 5.0          |
| 32      | Vss       | -            |
| 33      | DAVN      | 5.1          |

| PIN NO. | PIN NAME  | VOLTAGES (V) |
|---------|-----------|--------------|
| 34      | Xtal      | 2.5          |
| 35      | EXtal     | 2.4          |
| 36      | RESET     | 5.1          |
| 37      | V.MUTE    | -            |
| 38      | S.MUTE    | -            |
| 39      | GND       | -            |
| 40      | 2T AFT    | 3.0          |
| 41      | 1T AFT    | -            |
| 42      | SCART ID  | -            |
| 43      | BUS STOP  | 5.1          |
| 44      | P OFF DET | 5.5          |
| 45      | XLC       | 3.0          |
| 46      | EXLC      | 3.0          |
| 47      | OSDR      | -            |
| 48      | OSDG      | -            |
| 49      | OSDB      | -            |
| 50      | NC        | -            |
| 51      | F/B       | -            |
| 52-59   | NC        | -            |
| 60      | S-L CTL   | -            |
| 61-62   | GND       | -            |
| 63-64   | VDD       | 5.1          |

\* Pin No 4, 5, 6, 7, 8, 11, 33, 38, 42 are High, Low output ports.