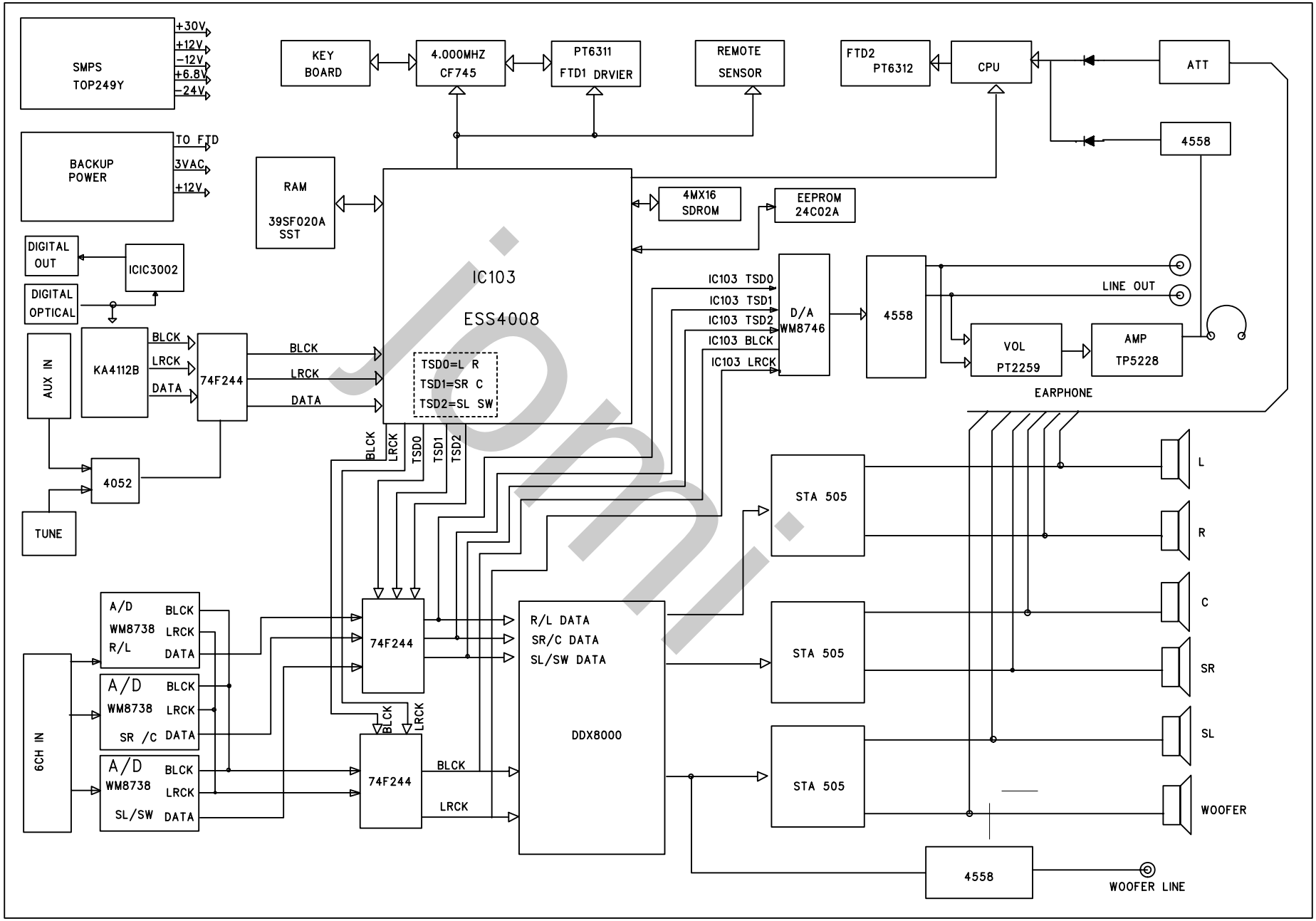
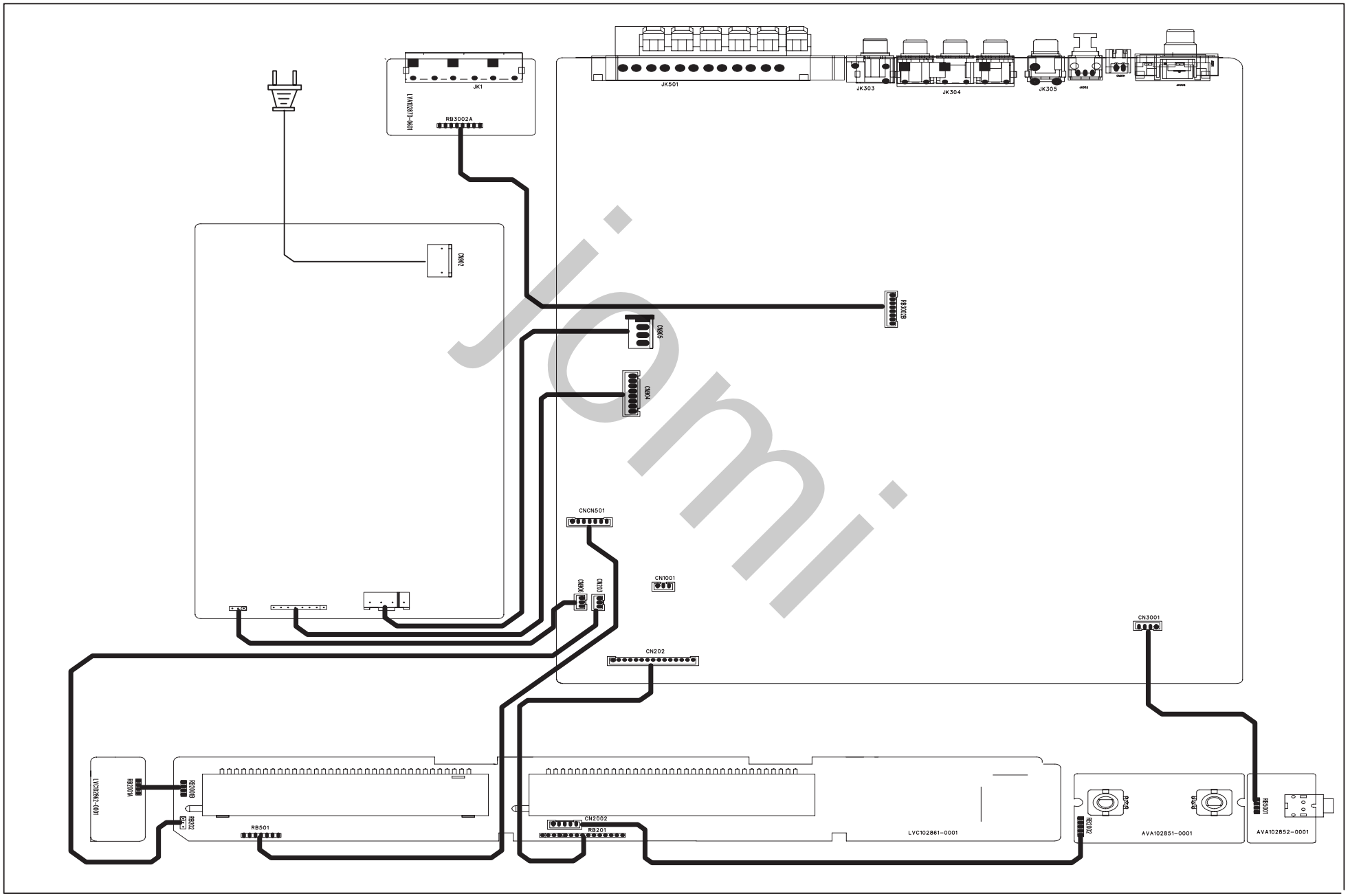
4-1

## BLOCK DIAGRAM



4-2

## WIRING DIAGRAM



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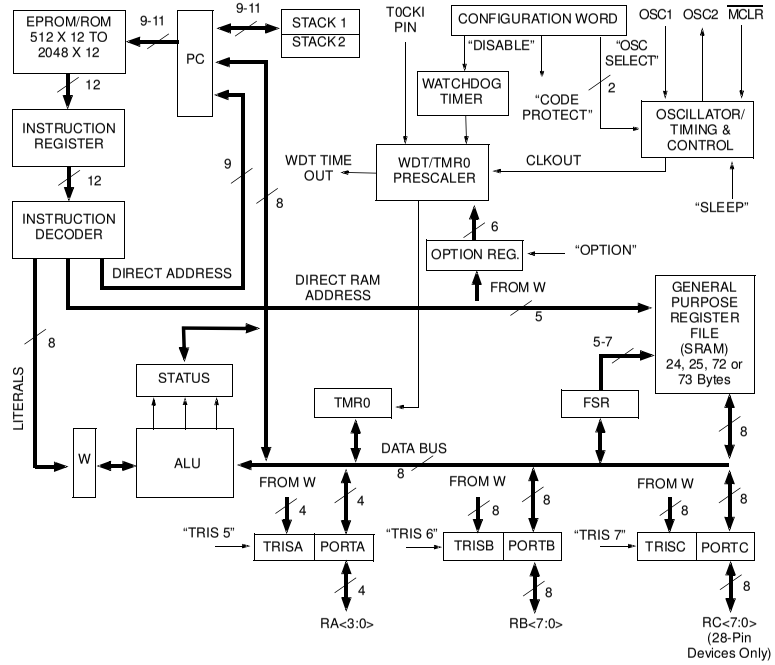
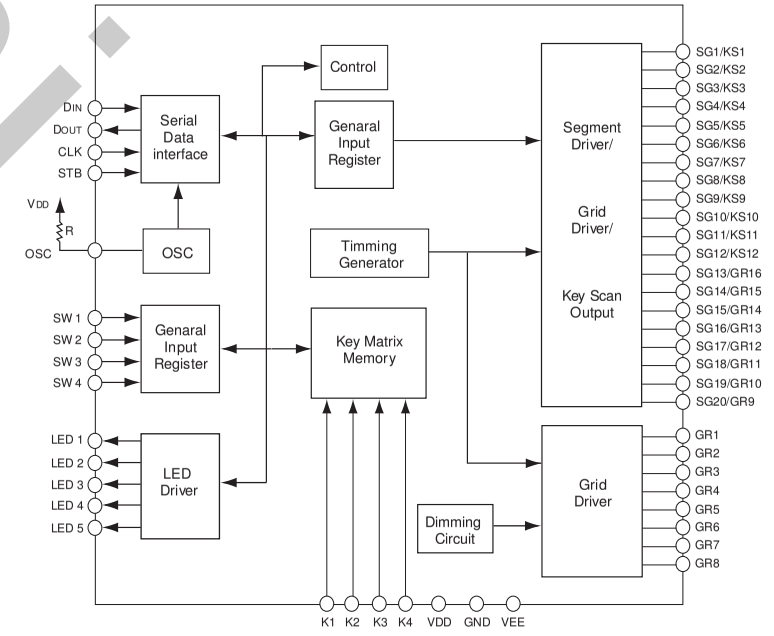
## CF745 INTERNAL BLOCK DIAGRAM

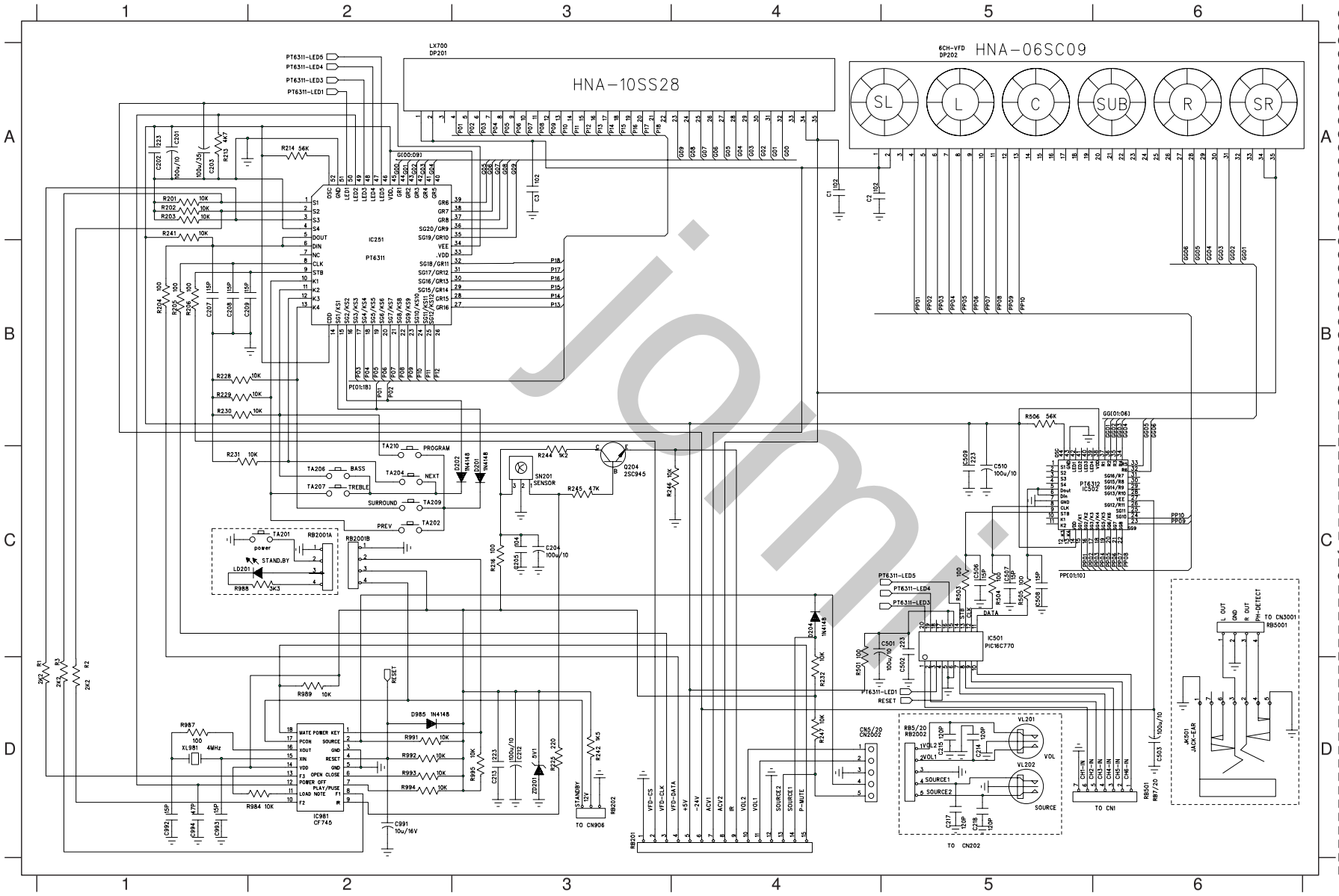



## PT6311 INTERNAL BLOCK DIAGRAM



5-2

## CIRCUIT DIAGRAM




| | | | |
|---|---|---|---|
| C1 | A4 | R247 | D4 |
| C2 | A4 | R255 | D3 |
| C3 | A3 | R501 | D4 |
| C201 | A1 | R503 | C5 |
| C202 | A1 | R504 | C5 |
| C203 | A1 | R505 | C5 |
| C204 | C3 | R506 | B5 |
| C205 | C3 | R984 | D2 |
| C207 | B1 | R987 | D1 |
| C208 | B1 | R988 | C1 |
| C209 | B1 | R989 | D2 |
| C212 | D3 | R991 | D2 |
| C213 | D3 | R992 | D2 |
| C214 | D5 | R993 | D2 |
| C215 | D5 | R994 | D2 |
| C217 | D5 | R995 | D3 |
| C218 | D5 | RB201 | D3 |
| C501 | C5 | RB202 | D3 |
| C502 | D5 | RB501 | D6 |
| C503 | D6 | RB2001A | C2 |
| C506 | C5 | RB2001B | C2 |
| C507 | C5 | RB2002 | D5 |
| C508 | C5 | RB5001 | C6 |
| C509 | C5 | SN201 | C3 |
| C510 | C5 | TA201 | C2 |
| C991 | D2 | TA202 | C2 |
| C992 | D1 | TA204 | C2 |
| C993 | D1 | TA206 | C2 |
| C994 | D1 | TA207 | C2 |
| CN2002 | D4 | TA209 | C2 |
| D201 | C3 | TA210 | C2 |
| D202 | C3 | VL201 | D5 |
| D204 | C4 | VL202 | D5 |
| D985 | D2 | XL981 | D1 |
| DP201 | A2 | ZD201 | D3 |
| DP202 | A5 | | |
| IC251 | A2 | | |
| IC501 | C5 | | |
| IC502 | C5 | | |
| IC981 | D2 | | |
| JK501 | D6 | | |
| LD201 | C1 | | |
| Q204 | C3 | | |
| R1 | D1 | | |
| R2 | D1 | | |
| R3 | D1 | | |
| R201 | A1 | | |
| R202 | A1 | | |
| R203 | A1 | | |
| R204 | B1 | | |
| R205 | B1 | | |
| R206 | B1 | | |
| R213 | A1 | | |
| R214 | A2 | | |
| R216 | C3 | | |
| R228 | B1 | | |
| R229 | B1 | | |
| R230 | B1 | | |
| R231 | C1 | | |
| R232 | D4 | | |
| R241 | A1 | | |
| R242 | D3 | | |
| R244 | C3 | | |
| R245 | C3 | | |
| R246 | C3 | | |

# SOURCE + PHONE / 6 CH IN BOARD



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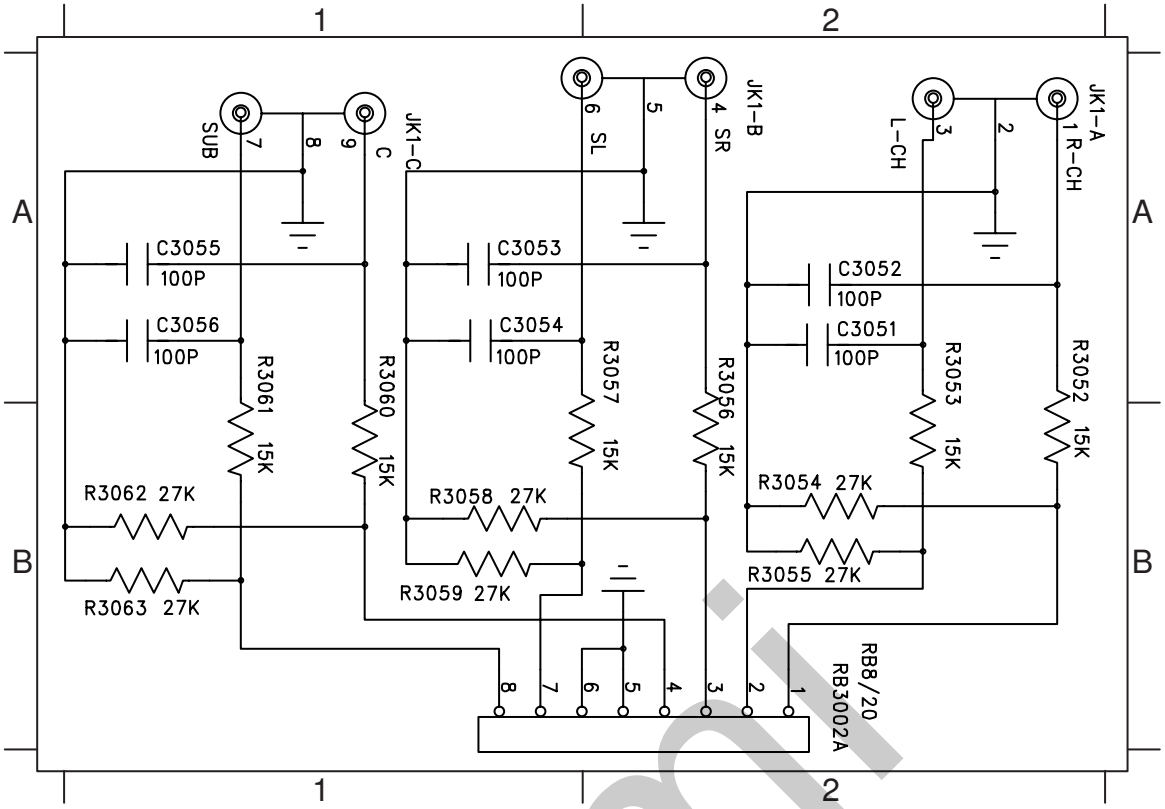
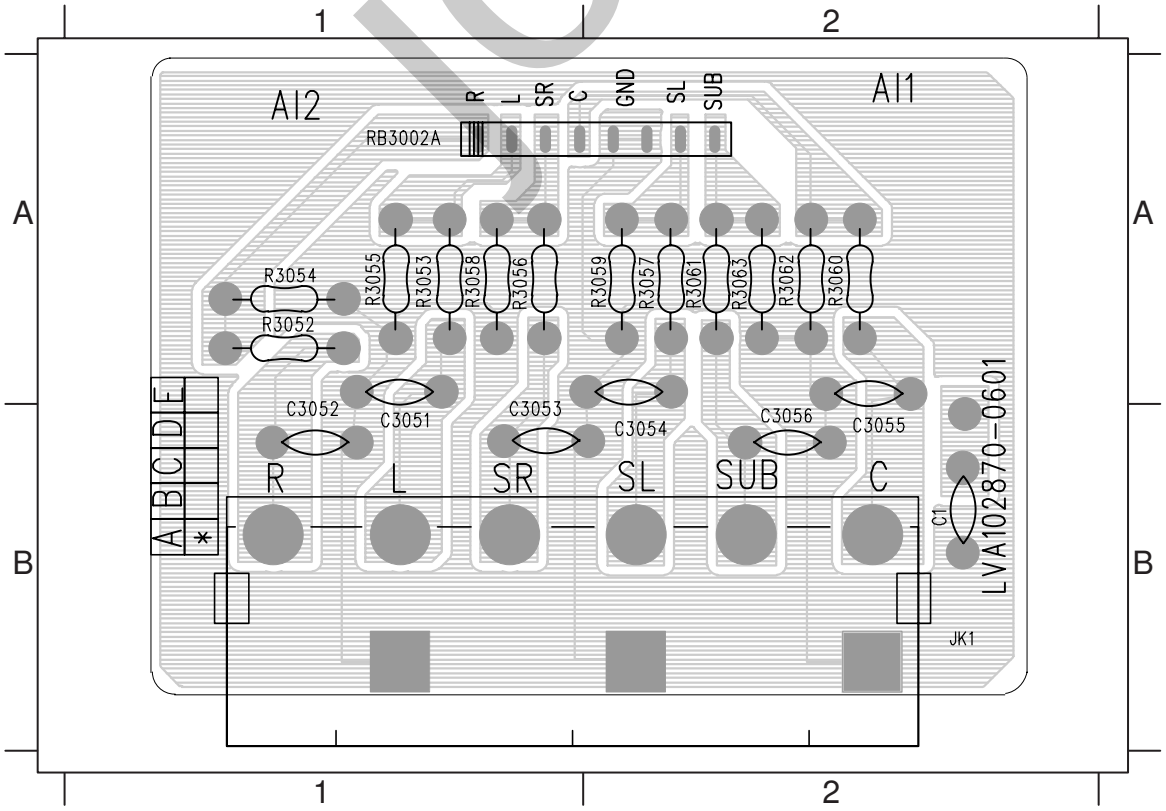
## CIRCUIT DIAGRAM - 6 CH IN PCB




| | |
|---|---|
| C3051 | A2 |
| C3052 | A2 |
| C3053 | A1 |
| C3054 | A1 |
| C3055 | A1 |
| C3056 | A1 |
| JK1-A | A2 |
| JK1-B | A2 |
| JK1-C | A1 |
| R3052 | A2 |
| R3053 | A2 |
| R3054 | B2 |
| R3055 | B2 |
| R3056 | A2 |
| R3057 | A2 |
| R3058 | B1 |
| R3059 | B1 |
| R3060 | A1 |
| R3061 | A1 |
| R3062 | B1 |
| R3063 | B1 |
| RB3002A | B2 |

## PCB LAYOUT - 6 CH IN PCB




| | |
|---|---|
| C1 | B2 |
| C3051 | B1 |
| C3052 | B1 |
| C3053 | B1 |
| C3054 | B2 |
| C3055 | B2 |
| C3056 | B2 |
| JK1 | B2 |
| R3052 | A1 |
| R3053 | A1 |
| R3054 | A1 |
| R3055 | A1 |
| R3056 | A1 |
| R3057 | A2 |
| R3058 | A1 |
| R3059 | A2 |
| R3060 | A2 |
| R3061 | A2 |
| R3062 | A2 |
| R3063 | A2 |
| RB3002A | A1 |

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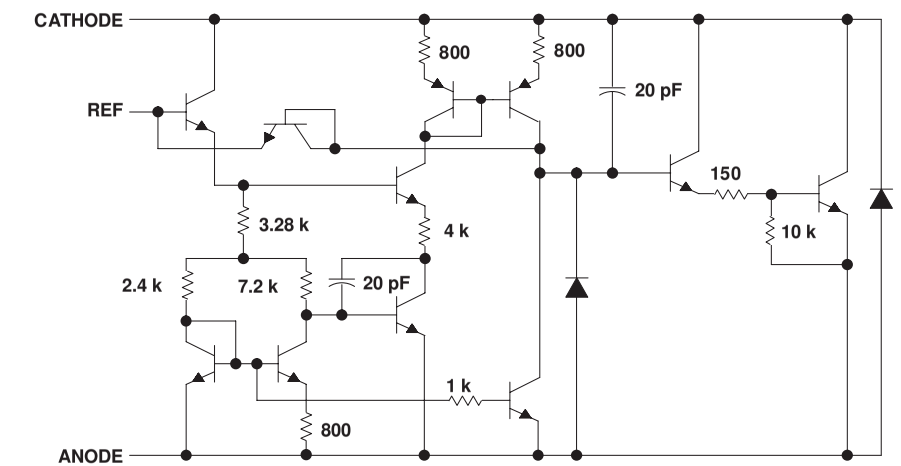
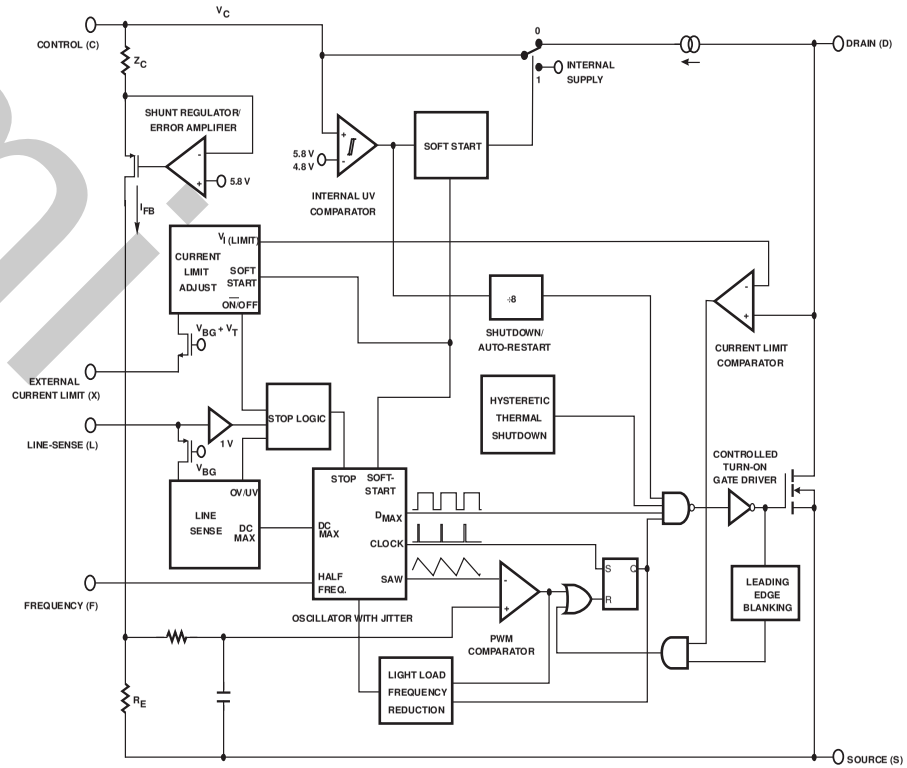
**TL431 EQUIVALENT SCHEMATIC**




**TOP249 BLOCK DIAGRAM**

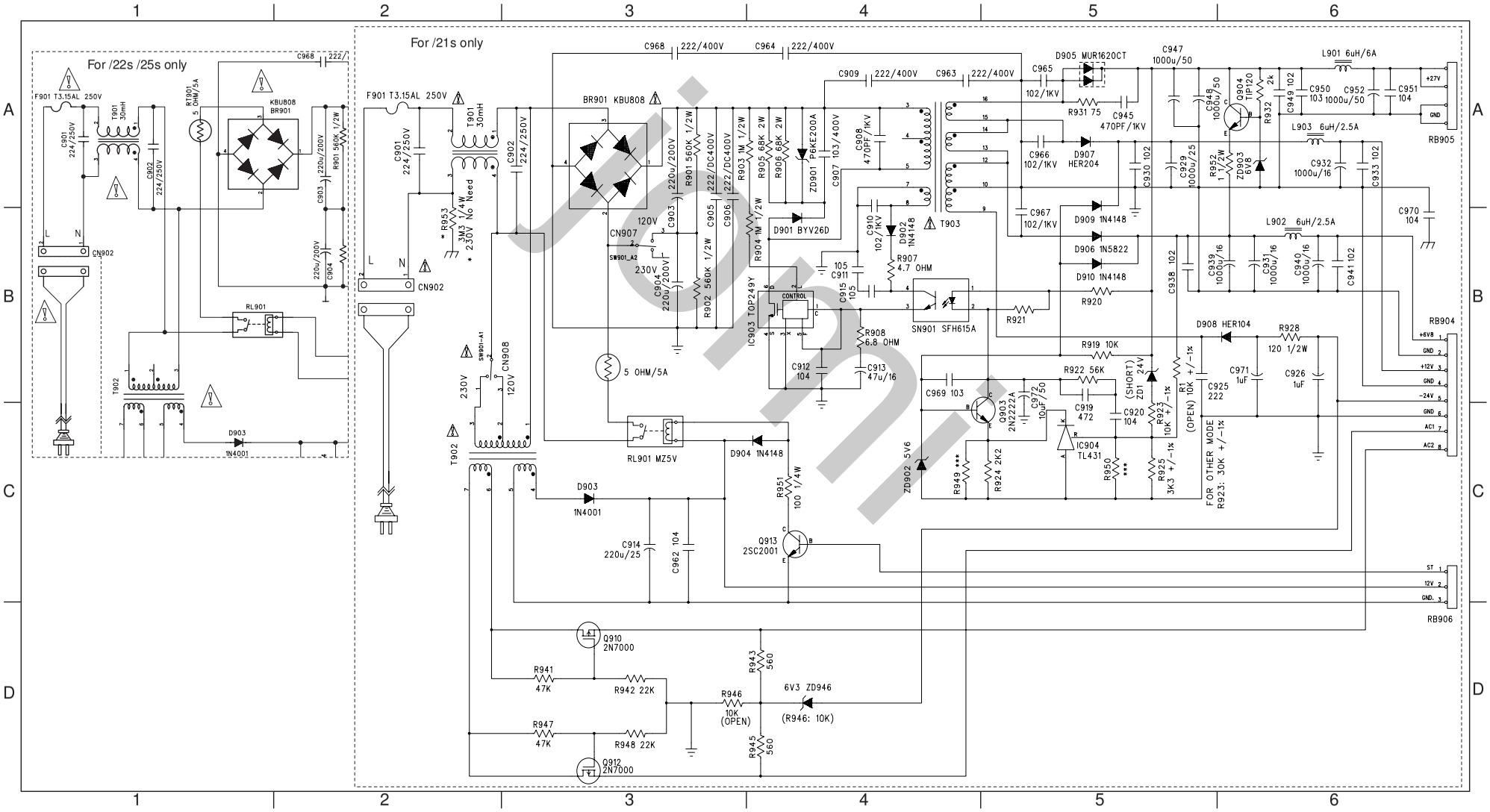


7-2

## CIRCUIT DIAGRAM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BR901 | A3 | C908 | A4 | C919 | C5 | C933 | A6 | C949 | A6 | C966 | A5 | CN907 | B3 | D907 | A5 | L902 | B6 | R901 | A3 | R919 | B5 | R931 | A5 |
| C901 | A2 | C909 | A4 | C920 | C5 | C938 | B5 | C950 | A6 | C967 | B5 | CN908 | B3 | D908 | B5 | L903 | A6 | R902 | B3 | R920 | B5 | R932 | A6 |
| C902 | A3 | C910 | B4 | C925 | B5 | C939 | B5 | C951 | A6 | C968 | A3 | D901 | B4 | D909 | B5 | Q903 | C5 | R903 | A3 | R921 | B5 | R941 | D3 |
| C903 | B3 | C911 | B4 | C926 | B6 | C940 | B6 | C952 | A6 | C969 | B4 | D902 | B4 | D910 | B5 | Q904 | A6 | R904 | B4 | R922 | B5 | R942 | D3 |
| C904 | B3 | C912 | B4 | C929 | A5 | C941 | B6 | C962 | C3 | C970 | B6 | D903 | C3 | F901 | A2 | Q910 | C3 | R905 | A4 | R923 | C5 | R943 | D4 |
| C905 | B3 | C913 | B4 | C930 | A5 | C945 | A5 | C963 | A4 | C971 | B6 | D904 | C3 | IC903 | B3 | Q912 | D3 | R906 | A4 | R924 | C5 | R945 | D4 |
| C906 | B3 | C914 | C3 | C931 | B6 | C947 | A5 | C964 | A4 | C972 | B5 | D905 | A5 | IC904 | C5 | Q913 | C4 | R907 | B4 | R925 | C5 | R946 | D3 |
| C907 | A4 | C915 | B4 | C932 | A6 | C948 | A5 | C965 | A5 | CN902 | B2 | D906 | B5 | L901 | A6 | R1 | B5 | R908 | B4 | R928 | B6 | R947 | D3 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RB901 | D6 | ZD901 | A4 | | | | | | | | | | | | | | | | | | | | |
| RB904 | B6 | ZD902 | C4 | | | | | | | | | | | | | | | | | | | | |
| RB905 | B4 | ZD903 | A6 | | | | | | | | | | | | | | | | | | | | |
| RB906 | B4 | ZD946 | D4 | | | | | | | | | | | | | | | | | | | | |
| RL901 | C3 | | | | | | | | | | | | | | | | | | | | | | |
| RT901 | A1 | | | | | | | | | | | | | | | | | | | | | | |
| SN901 | B4 | | | | | | | | | | | | | | | | | | | | | | |
| T901 | A2 | | | | | | | | | | | | | | | | | | | | | | |
| T902 | C2 | | | | | | | | | | | | | | | | | | | | | | |
| T903 | B4 | | | | | | | | | | | | | | | | | | | | | | |
| ZD1 | B5 | | | | | | | | | | | | | | | | | | | | | | |



# MAIN BOARD

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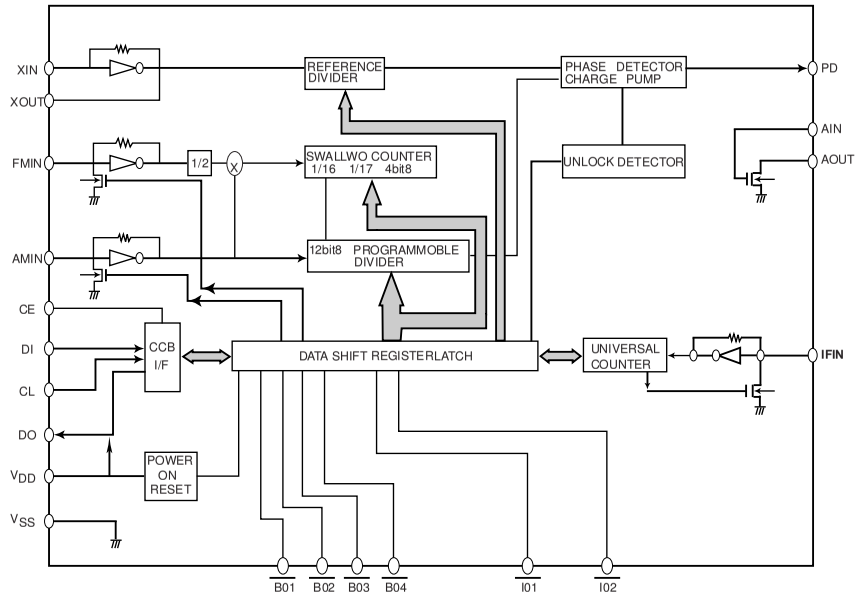
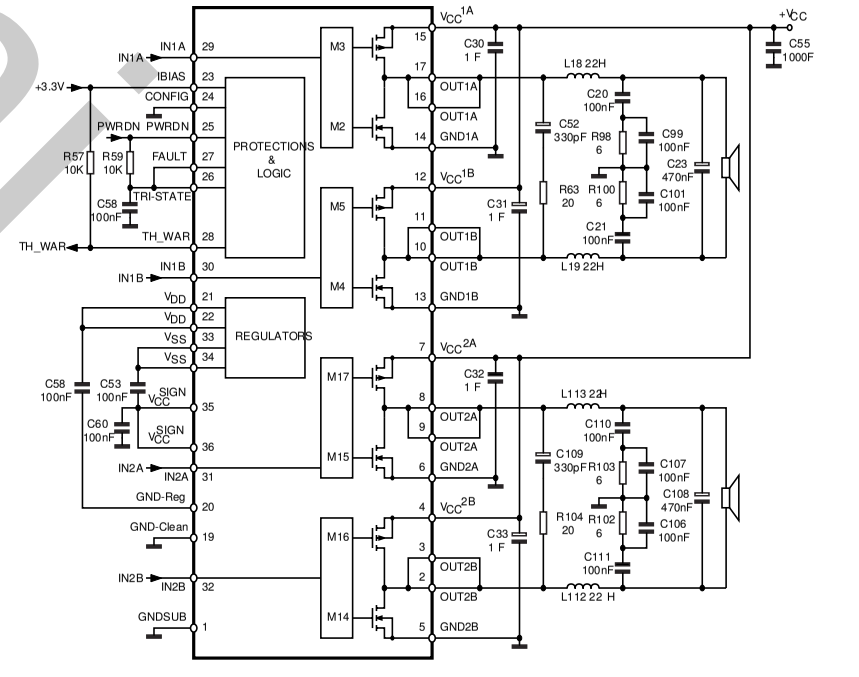
## LC72131 INTERNAL IC DIAGRAM




## ST505 INTERNAL IC DIAGRAM



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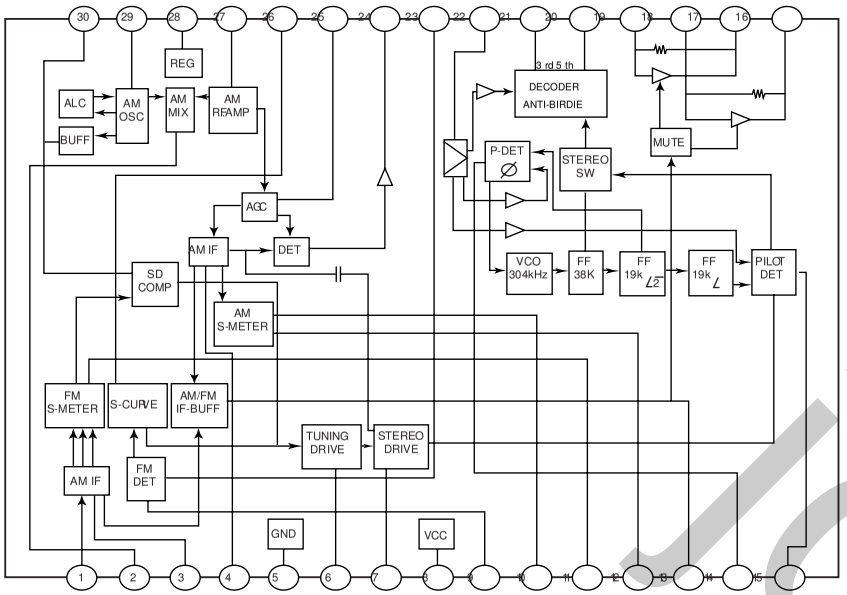
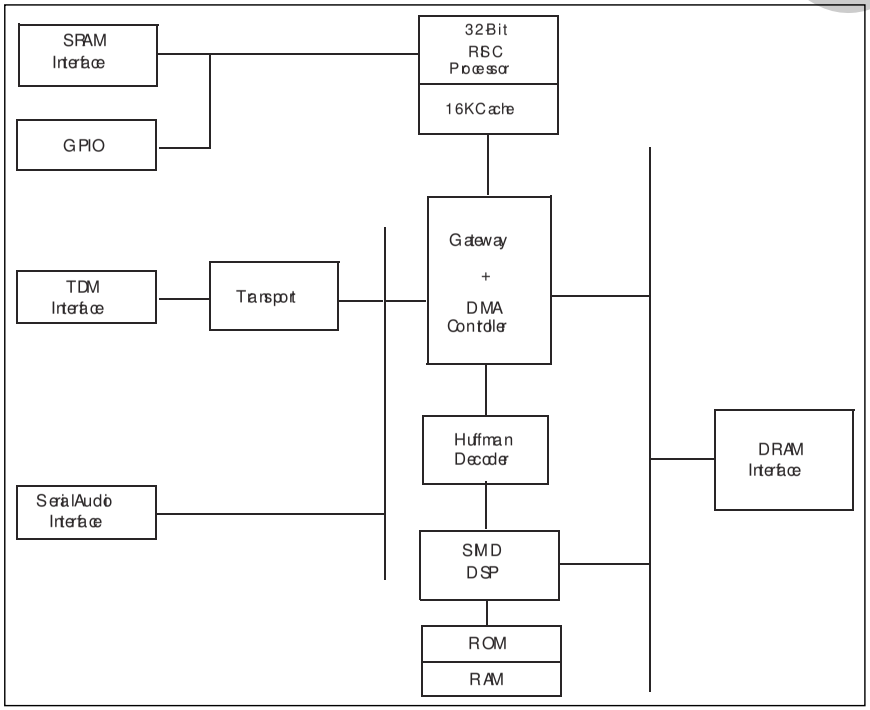
## LA1837 INTERNAL IC DIAGRAM

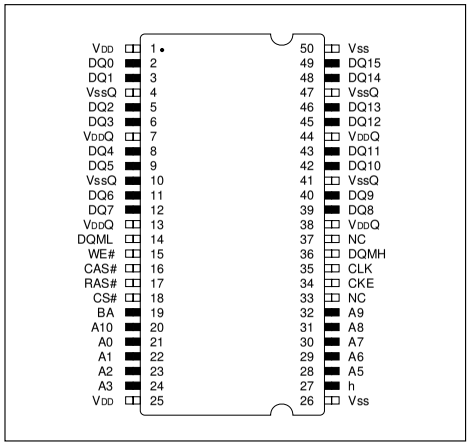



## ESS4008 INTERNAL IC DIAGRAM




## SYNCHRONOUS DRAM
## 1MX16Y3VTW

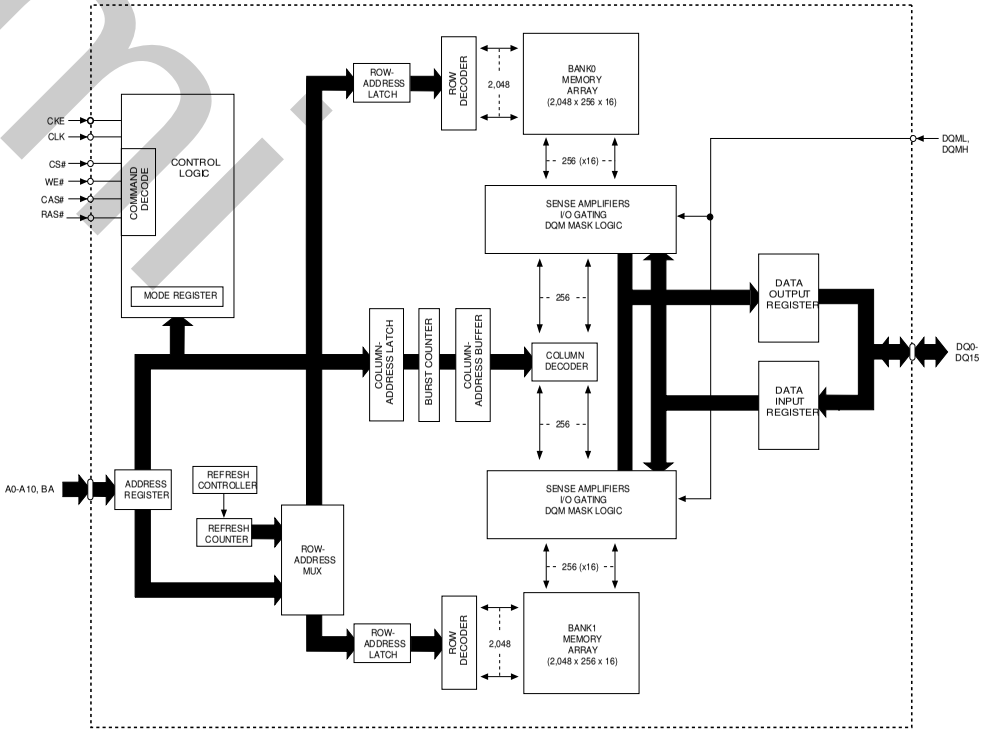
### PIN ASSIGNMENT (Top View)
### 50 - Pin TSOP




**Note:** The # symbol indicates signal is active LOW.

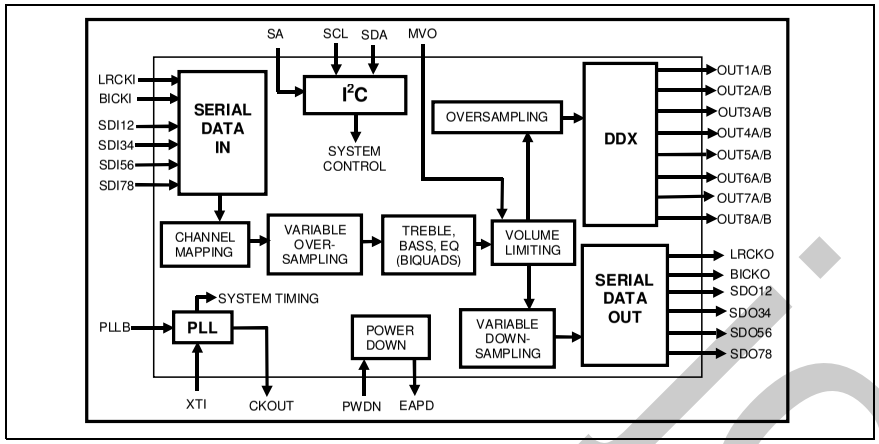
| | 1 Meg x 16 |
|---|---|
| Configuration | 512K x 16 x 2 banks |
| Refresh Count | 2K or 4K |
| Row Addressing | 2K (A0-A10) |
| Bank Addressing | 2 (BA) |
| Column Addressing | 256 (A0-A7) |

### FUNCTIONAL BLOCK DIAGRAM
### 1 Meg x 16 SDRAM

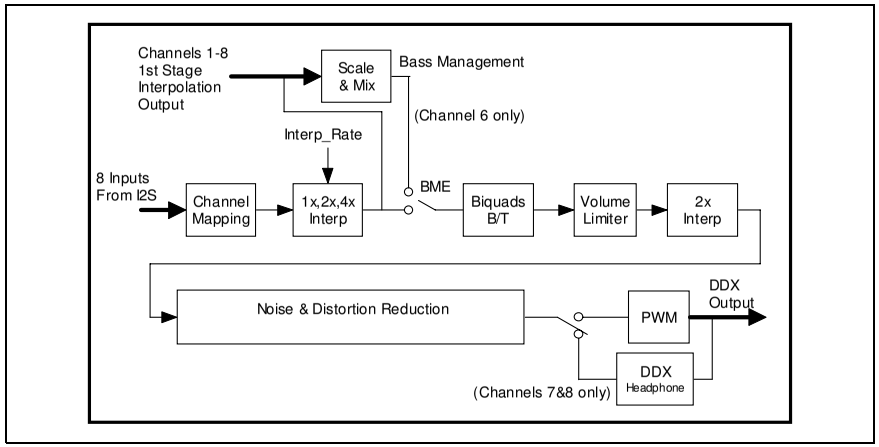


# DIGITAL AUDIO PROCESSOR
# STA308

## BLOCK DIAGRAM



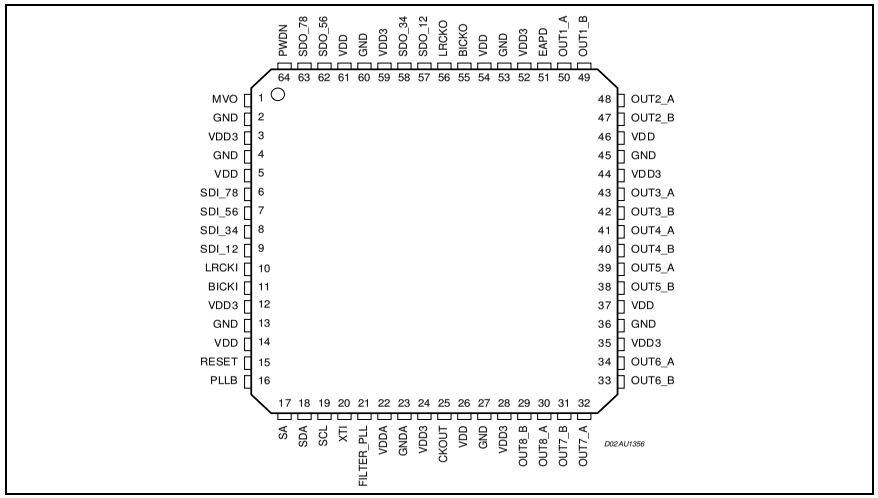

## SIGNAL FLOW DIAGRAM






DIGITAL AUDIO PROCESSOR
STA308

## PIN CONNECTION (Top view)




## PIN FUNCTION

| PIN | NAME | TYPE | DESCRIPTION | PAD TYPE |
|---|---|---|---|---|
| 1 | MVO | I | Master Volume Override | CMOS Input Buffer with Pull-Down |
| 3, 12, 24, 28, 35, 44, 52, 59 | VDD3 | | 3.3V Digital Supply | 3.3V Digital Power Supply Voltage (pad ring) |
| 2, 4, 13, 27, 36, 45, 53, 60 | GND | | Digital Ground | Digital Ground |
| 5, 14, 26, 37, 46, 54, 61 | VDD | | 2.5V Digital Supply | 2.5V Digital Power Supply Voltage (core + ring) |
| 6 | SDI_78 | I | Input I2S Serial Data Channels 7 & 8 | 5V Tolerant TTL Input Buffer |
| 7 | SDI_56 | I | Input I2S Serial Data Channels 5 & 6 | 5V Tolerant TTL Input Buffer |
| 8 | SDI_34 | I | Input I2S Serial Data Channels 3 & 4 | 5V Tolerant TTL Input Buffer |
| 9 | SDI_12 | I | Input I2S Serial Data Channels 1 & 2 | 5V Tolerant TTL Input Buffer |
| 10 | LRCKI | I | Inputs I2C Left/Right Clock | 5V Tolerant TTL Input Buffer |
| 11 | BICKI | I | Inputs I2C Serial Clock | 5V Tolerant TTL Input Buffer |
| 15 | RESET | I | Global Reset | 5V Tolerant TTL Schmitt Trigger Input Buffer |
| 16 | PLLB | I | PLL Bypass | CMOS Input Buffer with Pull-Down |
| 17 | SA | I | Select Address (I2C) | CMOS Input Buffer with Pull-Down |
| 18 | SDA | I/O | I2C Serial Data | Bidirectional Buffer: 5V Tolerant TTL Schmitt Trigger Input; 3.3V Capable 2 mA Slew-rate control Output; |
| 19 | SCL | I | I2C Serial Clock | 5V Tolerant TTL Schmitt Trigger Input Buffer |

# OCTAL BUFFER / LINE DRIVER
# 74HCT244

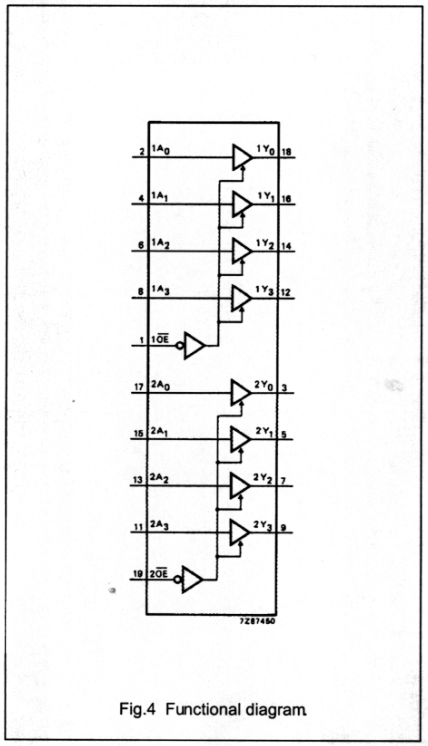



Fig.4 Functional diagram.

**FUNCTION TABLE**

| INPUTS | | OUTPUT |
|---|---|---|
| $n\overline{OE}$ | $nA_n$ | $nY_n$ |
| L | L | L |
| L | H | H |
| H | X | Z |

**Note**

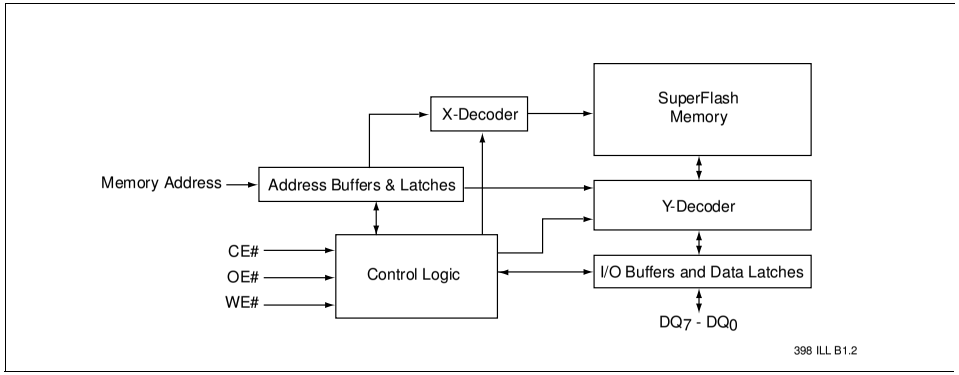
1. H = HIGH voltage level
   L = LOW voltage level
   X = don't care
   Z = high impedance OFF-state



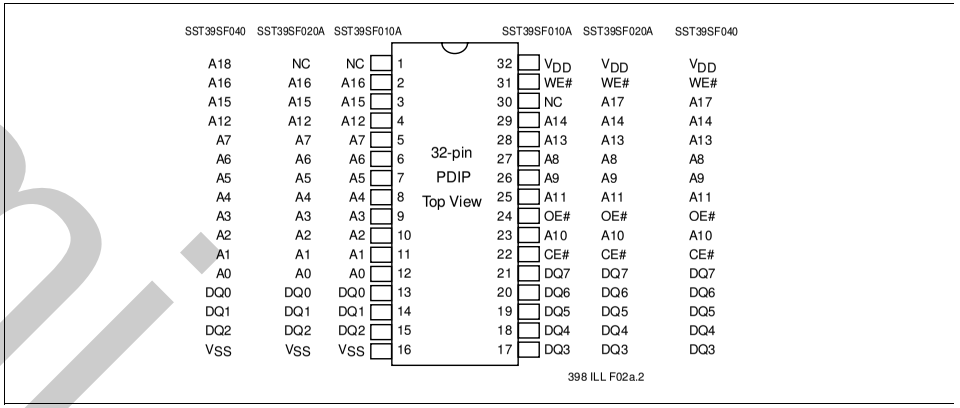


# MULTI-PURPOSE FLASH
# SST39SF020A

## FUNCTIONAL BLOCK DIAGRAM




## PIN ASSIGNMENTS FOR 32-PIN PDIP




## PIN DESCRIPTION

| Symbol | Pin Name | Functions |
|---|---|---|
| $A_{MS}$[1]-$A_0$ | Address Inputs | To provide memory addresses.<br>During Sector-Erase $A_{MS}$-$A_{12}$ address lines will select the sector. |
| $DQ_7$-$DQ_0$ | Data Input/output | To output data during Read cycles and receive input data during Write cycles.<br>Data is internally latched during a Write cycle.<br>The outputs are in tri-state when OE# or CE# is high. |
| CE# | Chip Enable | To activate the device when CE# is low. |
| OE# | Output Enable | To gate the data output buffers. |
| WE# | Write Enable | To control the Write operations. |
| $V_{DD}$ | Power Supply | To provide 5.0V supply (4.5-5.5V) |
| $V_{SS}$ | Ground | |
| NC | No Connection | Unconnected pins. |

1. $A_{MS}$ = Most significant address
   $A_{MS}$ = $A_{16}$ for SST39SF010A, $A_{17}$ for SST39SF020A, and $A_{18}$ for SST39SF040

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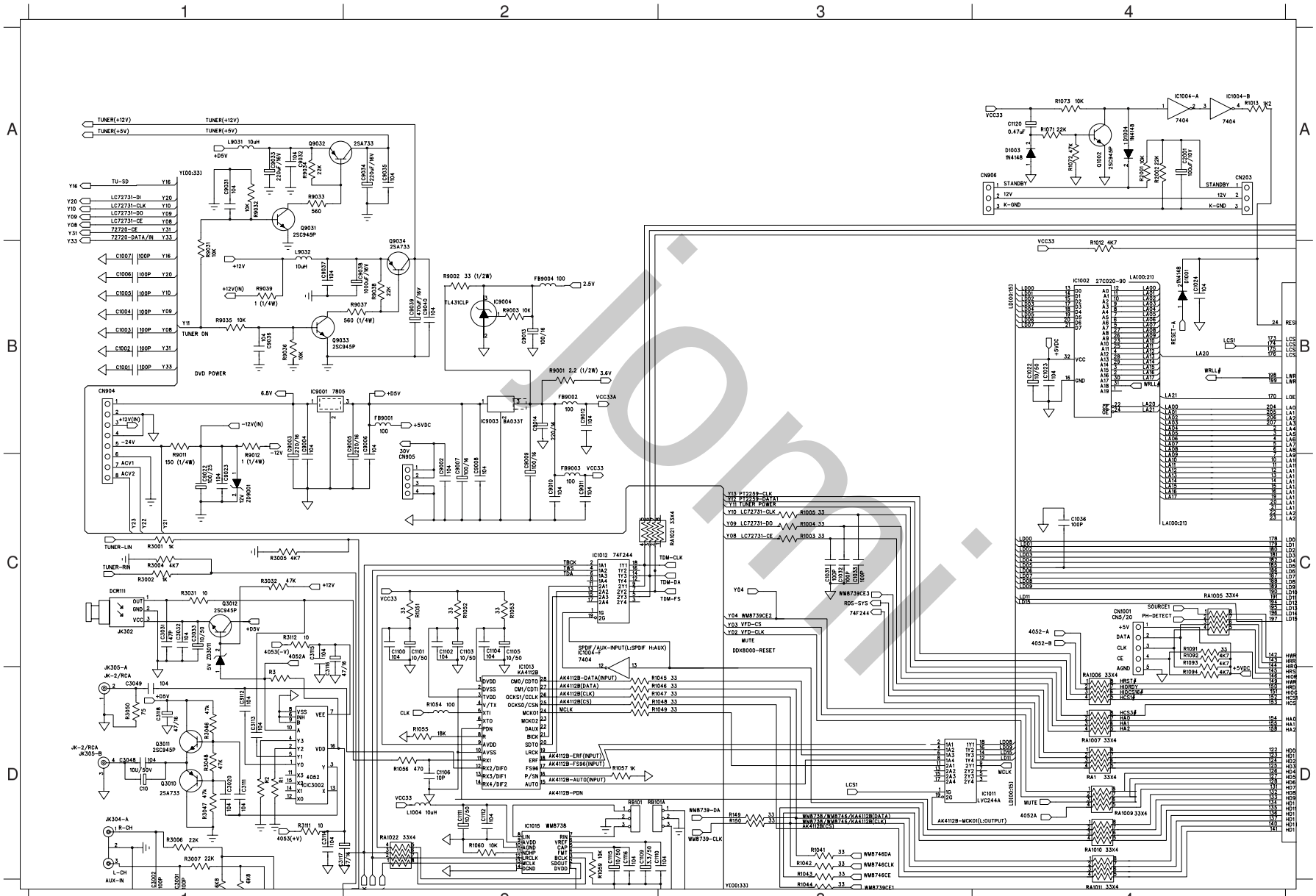
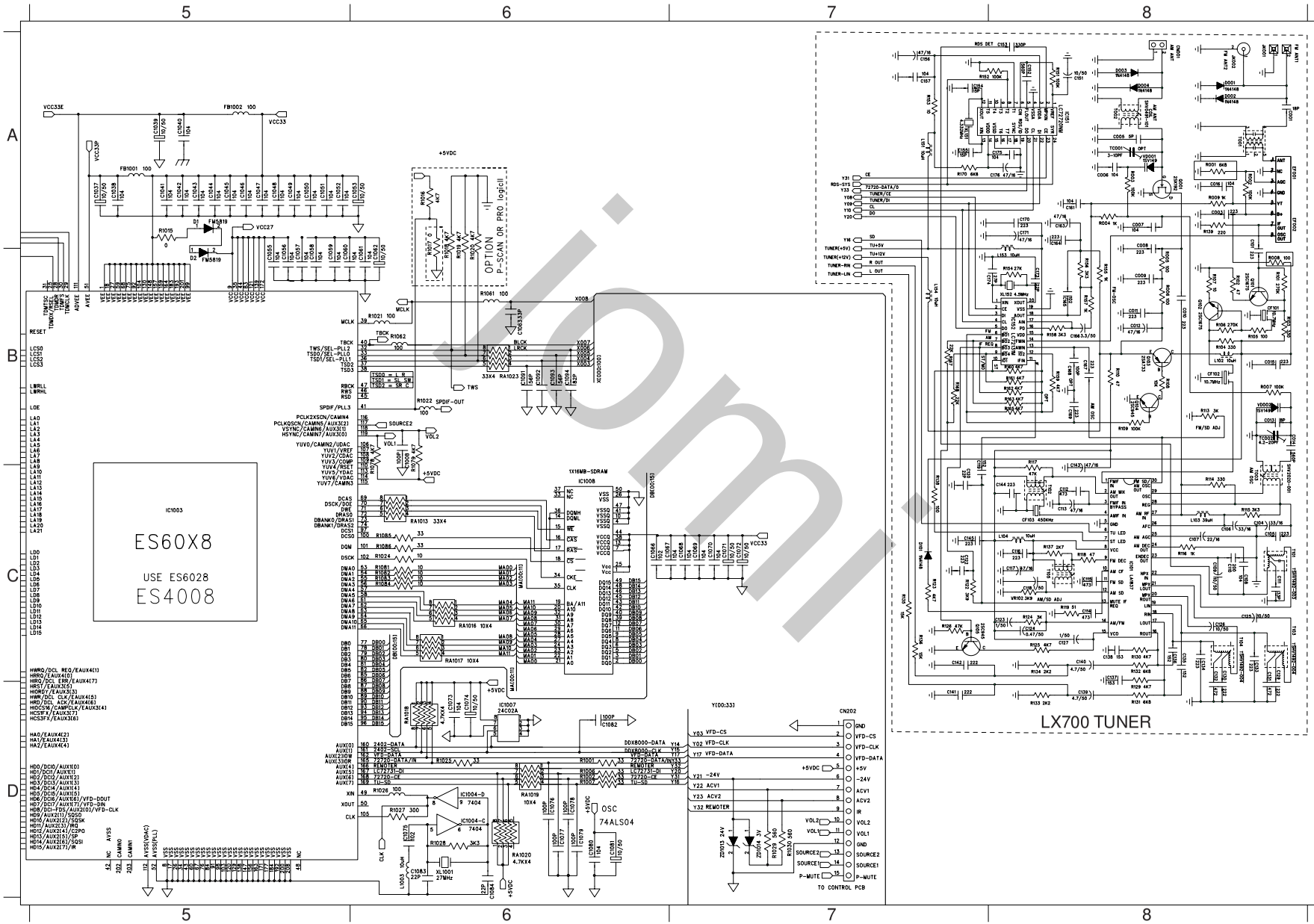
# CIRCUIT DIAGRAM (TOP LEFT)



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C10 | D1 | Q9034 | B2 | | | | |
| C1001 | A1 | R1 | D1 | | | | |
| C1002 | A1 | R2 | D1 | | | | |
| C1003 | A1 | R3 | D1 | | | | |
| C1004 | A1 | R149 | D3 | | | | |
| C1005 | A1 | R150 | D3 | | | | |
| C1006 | A1 | R1003 | C3 | | | | |
| C1007 | A1 | R1004 | C3 | | | | |
| C1022 | B4 | R1005 | C3 | | | | |
| C1023 | B4 | R1012 | B4 | | | | |
| C1024 | B4 | R1013 | A4 | | | | |
| C1031 | C3 | R1041 | D3 | | | | |
| C1032 | C3 | R1042 | D3 | | | | |
| C1033 | C3 | R1043 | D3 | | | | |
| C1036 | C4 | R1045 | C3 | | | | |
| C1100 | B2 | R1046 | C3 | | | | |
| C1101 | B2 | R1047 | C3 | | | | |
| C1102 | B2 | R1048 | C3 | | | | |
| C1103 | B2 | R1049 | C3 | | | | |
| C1104 | B2 | R1051 | B2 | | | | |
| C1105 | B2 | R1052 | B2 | | | | |
| C1106 | D2 | R1053 | B2 | | | | |
| C1109 | D2 | R1054 | D2 | | | | |
| C1110 | D2 | R1055 | D2 | | | | |
| C1111 | D2 | R1056 | D2 | | | | |
| C1112 | D2 | R1057 | D2 | | | | |
| C1115 | D2 | R1059 | D2 | | | | |
| C1116 | D2 | R1060 | D2 | | | | |
| C1120 | A4 | R1071 | A4 | | | | |
| C2001 | A4 | R1072 | A4 | | | | |
| C3020 | D1 | R1073 | A4 | | | | |
| C3031 | C1 | R1091 | C4 | | | | |
| C3032 | C1 | R1092 | C4 | | | | |
| C3033 | C1 | R1093 | C4 | | | | |
| C3048 | D1 | R1094 | D4 | | | | |
| C3049 | D1 | R2001 | A4 | | | | |
| C3111 | D1 | R2002 | A4 | | | | |
| C3112 | D1 | R3001 | C1 | | | | |
| C3113 | D1 | R3002 | C1 | | | | |
| C3114 | D1 | R3004 | C1 | | | | |
| C3115 | C1 | R3005 | C1 | | | | |
| C3116 | D1 | R3006 | D1 | | | | |
| C3117 | D1 | R3007 | D1 | | | | |
| C3118 | D1 | R3031 | C1 | | | | |
| C9002 | C2 | R3032 | C1 | | | | |
| C9003 | B1 | R3046 | D1 | | | | |
| C9004 | B1 | R3047 | D1 | | | | |
| C9005 | B2 | R3048 | D1 | | | | |
| C9006 | B2 | R3050 | D1 | | | | |
| C9007 | C2 | R3111 | D1 | | | | |
| C9008 | C2 | R3112 | C1 | | | | |
| C9009 | C2 | R9001 | B2 | | | | |
| C9010 | C2 | R9002 | B2 | | | | |
| C9011 | C2 | R9003 | B2 | | | | |
| C9012 | B2 | R9011 | C1 | | | | |
| C9013 | B2 | R9012 | C1 | | | | |
| C9014 | B2 | R9031 | B1 | | | | |
| C9022 | C1 | R9032 | A1 | | | | |
| C9023 | C1 | R9033 | A1 | | | | |
| C9031 | A1 | R9034 | A1 | | | | |
| C9032 | A1 | R9035 | B1 | | | | |
| C9033 | A1 | R9036 | B1 | | | | |
| C9034 | A2 | R9037 | B2 | | | | |
| C9035 | A2 | R9038 | B2 | | | | |
| C9036 | B1 | R9039 | B1 | | | | |
| C9037 | B1 | RA1 | D4 | | | | |
| C9038 | B2 | RA1005 | C4 | | | | |
| C9039 | B2 | RA1006 | D4 | | | | |
| C9040 | B2 | RA1007 | D4 | | | | |
| CN203 | A4 | RA1009 | D4 | | | | |
| CN904 | A1 | RA1010 | D4 | | | | |
| CN905 | C2 | RA1021 | C3 | | | | |
| CN906 | A4 | RA1022 | D2 | | | | |
| CN1001 | C4 | RB101 | D2 | | | | |
| D1001 | B4 | RB101A | D2 | | | | |
| D1003 | A4 | ZD3001 | C1 | | | | |
| D1004 | A4 | ZD9001 | C1 | | | | |
| FB9001 | B2 | | | | | | |
| FB9002 | B2 | | | | | | |
| FB9003 | B2 | | | | | | |
| FB9004 | B2 | | | | | | |
| IC1002 | B4 | | | | | | |
| IC1004-A | A4 | | | | | | |
| IC1004-B | A4 | | | | | | |
| IC1004-F | C2 | | | | | | |
| IC1011 | D4 | | | | | | |
| IC1012 | B2 | | | | | | |
| IC1013 | D2 | | | | | | |
| IC1015 | D2 | | | | | | |
| ICIC3002 | D1 | | | | | | |
| IC9001 | B1 | | | | | | |
| IC9003 | B2 | | | | | | |
| IC9004 | B2 | | | | | | |
| JK302 | C1 | | | | | | |
| JK304-A | D1 | | | | | | |
| JK305-A | D1 | | | | | | |
| JK305-B | D1 | | | | | | |
| L1004 | D2 | | | | | | |
| L9031 | A1 | | | | | | |
| L9032 | B1 | | | | | | |
| Q1002 | A4 | | | | | | |
| Q3010 | D1 | | | | | | |
| Q3011 | C1 | | | | | | |
| Q3012 | C1 | | | | | | |
| Q9031 | A1 | | | | | | |
| Q9032 | A1 | | | | | | |
| Q9033 | B1 | | | | | | |

8-7

# CIRCUIT DIAGRAM (TOP RIGHT)

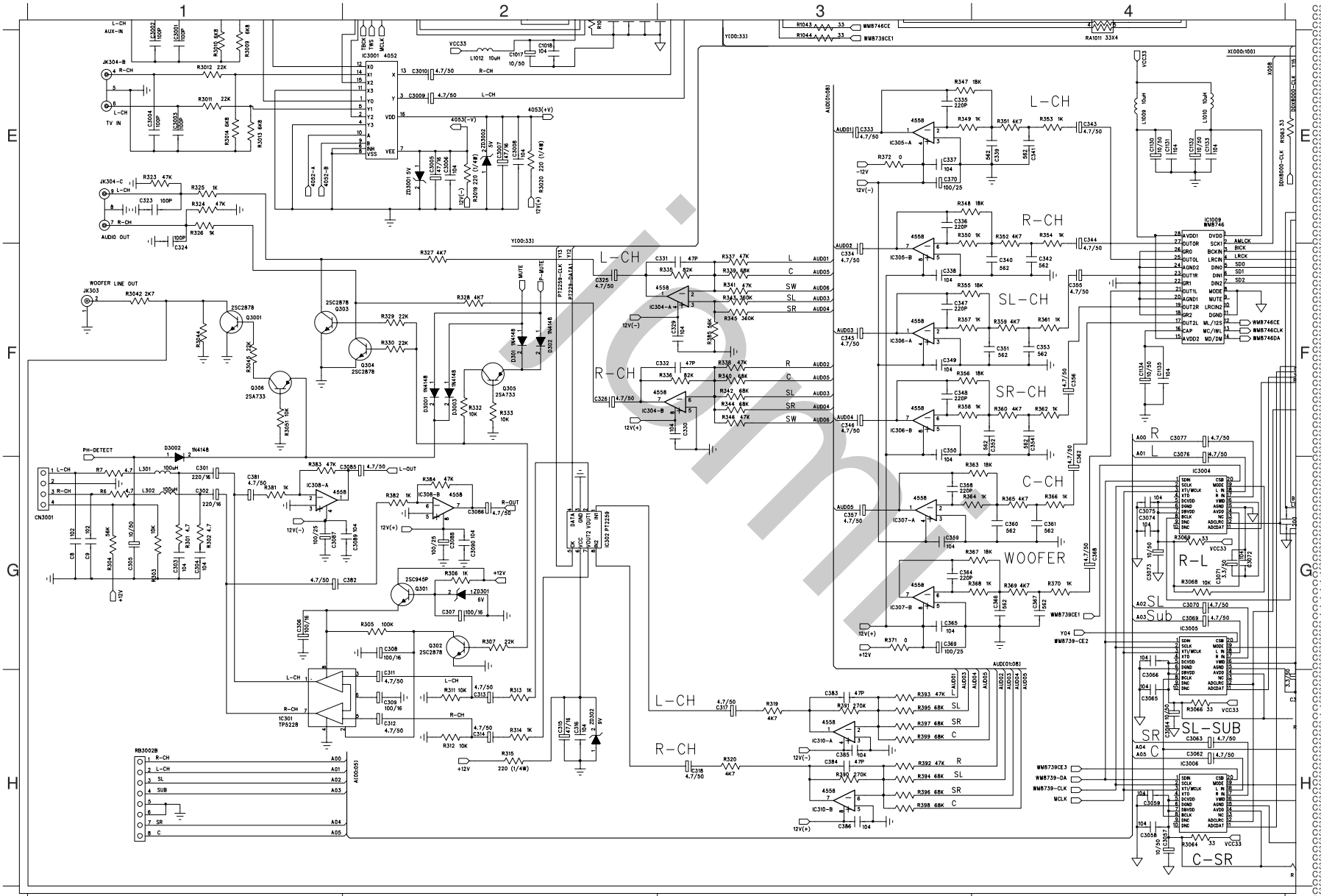





| | | | | | |
|---|---|---|---|---|---|
| C001 | A8 | C1075 | D6 | R167 | B7 |
| C003 | A8 | C1076 | D6 | R168 | B7 |
| C005 | A8 | C1077 | D6 | R170 | A7 |
| C006 | A8 | C1078 | D6 | R1001 | D6 |
| C007 | A8 | C1079 | D6 | R1002 | D6 |
| C008 | A8 | C1080 | D6 | R1006 | D6 |
| C009 | B8 | C1081 | D6 | R1007 | D6 |
| C010 | B8 | C1082 | D6 | R1015 | A5 |
| C011 | B8 | C1083 | D6 | R1016 | A6 |
| C012 | B8 | C1084 | D6 | R1017 | A6 |
| C013 | B8 | C1091 | B6 | R1018 | A6 |
| C014 | B8 | C1092 | B6 | R1019 | A6 |
| C015 | B8 | C1093 | B6 | R1020 | A6 |
| C016 | A8 | C1094 | B6 | R1021 | B6 |
| C101 | A8 | CF101 | B8 | R1022 | B6 |
| C104 | C8 | CF102 | B8 | R1024 | C6 |
| C105 | C8 | CF103 | C8 | R1025 | D6 |
| C106 | C8 | CN001 | A8 | R1026 | D6 |
| C107 | C8 | CN202 | D7 | R1027 | D6 |
| C108 | C8 | D1 | A5 | R1028 | D6 |
| C109 | C8 | D2 | A5 | R1029 | D7 |
| C110 | C8 | D001 | A8 | R1030 | D7 |
| C111 | C8 | D002 | A8 | R1061 | B6 |
| C112 | C8 | D003 | A8 | R1062 | B6 |
| C113 | C8 | D004 | A8 | R1078 | B6 |
| C114 | C8 | D101 | C7 | R1079 | B6 |
| C115 | C8 | EF001 | A8 | R1081 | C6 |
| C116 | C8 | EF002 | A8 | R1082 | C6 |
| C117 | C8 | FB1001 | A5 | R1083 | C6 |
| C118 | C8 | FB1002 | A5 | R1084 | C6 |
| C119 | C7 | IC101 | C8 | R1085 | C6 |
| C120 | C7 | IC151 | A8 | R1086 | C6 |
| C122 | C7 | IC152 | B8 | RA1013 | C6 |
| C123 | C8 | IC1003 | C5 | RA1016 | C6 |
| C125 | C8 | IC1004-C | D6 | RA1017 | C6 |
| C126 | C8 | IC1004-D | D6 | RA1018 | D6 |
| C127 | C8 | IC1007 | D6 | RA1019 | D6 |
| C129 | C8 | IC1008 | C6 | RA1020 | D6 |
| C130 | C8 | JK001 | A8 | RA1023 | B6 |
| C131 | C8 | JK002 | A8 | T001 | A8 |
| C132 | C8 | L102 | B8 | T002 | A8 |
| C133 | A8 | L103 | C8 | T003 | C8 |
| C134 | C8 | L104 | C8 | T101 | C8 |
| C135 | C8 | L151 | A7 | T102 | C8 |
| C136 | C8 | L153 | B8 | T103 | C8 |
| C137 | C8 | L154 | B7 | T104 | C8 |
| C139 | C8 | L1003 | D6 | T105 | C8 |
| C139 | D8 | Q001 | A8 | TC001 | A8 |
| C140 | C8 | Q101 | B8 | TC002 | B8 |
| C141 | D7 | Q102 | B8 | VD001 | A8 |
| C142 | C7 | Q103 | B8 | VD002 | B8 |
| C143 | B8 | Q104 | B8 | XL151 | A7 |
| C144 | C8 | Q105 | C7 | XL1001 | D6 |
| C145 | C7 | R001 | A8 | ZD1013 | D7 |
| C151 | A8 | R002 | A8 | ZD1014 | D7 |
| C152 | A8 | R003 | A8 | | |
| C153 | A8 | R004 | A8 | | |
| C154 | A7 | R005 | B8 | | |
| C155 | A7 | R006 | B8 | | |
| C156 | A7 | R007 | B8 | | |
| C157 | A7 | R008 | B8 | | |
| C161 | A8 | R009 | A8 | | |
| C163 | A8 | R101 | B8 | | |
| C164 | A8 | R103 | B8 | | |
| C165 | B8 | R104 | B8 | | |
| C166 | B8 | R105 | B8 | | |
| C167 | B8 | R106 | B8 | | |
| C168 | B8 | R107 | B8 | | |
| C169 | B8 | R108 | B8 | | |
| C170 | A8 | R109 | B8 | | |
| C171 | A8 | R110 | B8 | | |
| C173 | B8 | R113 | B8 | | |
| C174 | B8 | R114 | C8 | | |
| C175 | A8 | R115 | C8 | | |
| C176 | A8 | R116 | C8 | | |
| C1008 | B6 | R117 | C8 | | |
| C1037 | A5 | R118 | C8 | | |
| C1038 | A5 | R119 | C8 | | |
| C1039 | A5 | R122 | C7 | | |
| C1040 | A5 | R123 | C7 | | |
| C1041 | A5 | R124 | C8 | | |
| C1042 | A5 | R125 | C8 | | |
| C1043 | A5 | R126 | C7 | | |
| C1044 | A5 | R129 | D8 | | |
| C1045 | A5 | R130 | C8 | | |
| C1046 | A5 | R131 | D8 | | |
| C1047 | A5 | R132 | C8 | | |
| C1048 | A5 | R133 | D8 | | |
| C1049 | A5 | R134 | C8 | | |
| C1050 | A5 | R135 | C7 | | |
| C1051 | A5 | R136 | C7 | | |
| C1052 | A5 | R137 | C8 | | |
| C1055 | A5 | R138 | C7 | | |
| C1056 | A5 | R139 | A8 | | |
| C1057 | A5 | R151 | A8 | | |
| C1058 | A5 | R152 | A7 | | |
| C1059 | A5 | R153 | A7 | | |
| C1060 | A5 | R154 | B8 | | |
| C1063 | B6 | R155 | B8 | | |
| C1066 | C6 | R156 | B8 | | |
| C1067 | C6 | R157 | B8 | | |
| C1068 | C7 | R158 | B8 | | |
| C1069 | C7 | R159 | B8 | | |
| C1070 | C7 | R160 | B8 | | |
| C1071 | C7 | R161 | B8 | | |
| C1072 | C7 | R162 | B8 | | |
| C1073 | D6 | R163 | B8 | | |
| C1074 | D6 | R165 | B8 | | |

8-8

# CIRCUIT DIAGRAM (BOTTOM LEFT)

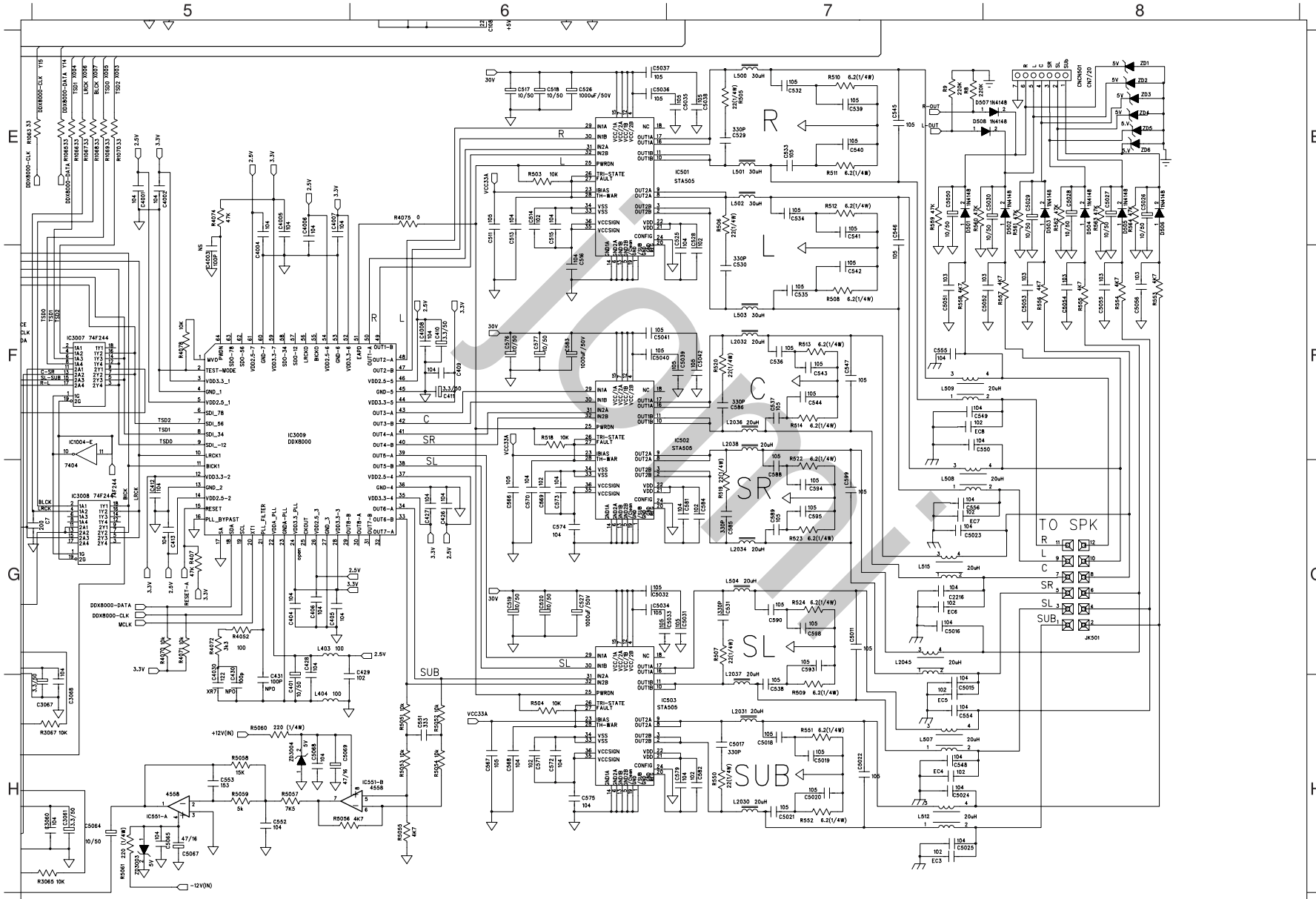





| | | | | | |
|---|---|---|---|---|---|
| C301 | G1 | CN3001 | G1 | R391 | H3 |
| C302 | G1 | D301 | F2 | R392 | H3 |
| C303 | G1 | D302 | F2 | R393 | H3 |
| C304 | G1 | D3001 | F2 | R394 | H3 |
| C305 | G1 | D3002 | F1 | R395 | H3 |
| C306 | G1 | D3003 | F2 | R396 | H3 |
| C307 | G2 | IC301 | G1 | R397 | H3 |
| C308 | G2 | IC302 | G2 | R398 | H3 |
| C309 | G2 | IC304-A | F3 | R399 | H3 |
| C311 | G2 | IC304-B | F3 | R1044 | E3 |
| C312 | G2 | IC305-A | E3 | R1063 | E4 |
| C313 | G2 | IC305-B | F3 | R3009 | E1 |
| C314 | G2 | IC306-A | F3 | R3010 | E1 |
| C315 | G2 | IC306-B | F3 | R3011 | E1 |
| C316 | G2 | IC307-A | G3 | R3012 | E1 |
| C317 | H3 | IC307-B | G3 | R3013 | E1 |
| C318 | H3 | IC308-A | G1 | R3014 | E1 |
| C323 | E1 | IC308-B | G2 | R3019 | E2 |
| C324 | F1 | IC310-A | H3 | R3020 | E2 |
| C325 | F2 | IC310-B | H3 | R3042 | F1 |
| C326 | F2 | IC1009 | E4 | R3044 | F1 |
| C329 | F3 | IC3001 | E2 | R3045 | F1 |
| C330 | F3 | IC3004 | G4 | R3051 | F1 |
| C331 | F3 | IC3005 | H4 | R3064 | H4 |
| C332 | F3 | JK303 | F1 | R3066 | H4 |
| C333 | E3 | JK304-B | E1 | R3068 | G4 |
| C334 | F3 | JK304-C | E1 | R3069 | G4 |
| C335 | E3 | L301 | G1 | RA1011 | E4 |
| C336 | E3 | L302 | G1 | RB3002B | G1 |
| C337 | E3 | L1009 | E4 | ZD301 | G2 |
| C338 | F3 | L1010 | E4 | ZD302 | G2 |
| C339 | E4 | L1012 | E2 | ZD3002 | E2 |
| C340 | E4 | Q301 | G2 | | |
| C341 | F4 | Q302 | G2 | | |
| C342 | F4 | Q303 | F2 | | |
| C343 | E4 | Q304 | F2 | | |
| C344 | E4 | Q305 | F2 | | |
| C345 | F3 | Q306 | F1 | | |
| C346 | F3 | Q3001 | F1 | | |
| C347 | F3 | R6 | G1 | | |
| C348 | F3 | R7 | G1 | | |
| C349 | F3 | R301 | G1 | | |
| C350 | F3 | R302 | G1 | | |
| C351 | F4 | R303 | G1 | | |
| C352 | F4 | R304 | G1 | | |
| C353 | F4 | R305 | G2 | | |
| C354 | F4 | R306 | G2 | | |
| C355 | F4 | R307 | G2 | | |
| C356 | F4 | R311 | G2 | | |
| C357 | G3 | R312 | G2 | | |
| C358 | G3 | R313 | G2 | | |
| C359 | G3 | R314 | G2 | | |
| C360 | G4 | R315 | G2 | | |
| C361 | G4 | R319 | H3 | | |
| C362 | F4 | R320 | H3 | | |
| C364 | G3 | R323 | E1 | | |
| C365 | G3 | R324 | E1 | | |
| C366 | G4 | R325 | E1 | | |
| C367 | G4 | R326 | F2 | | |
| C368 | G4 | R327 | F2 | | |
| C369 | G3 | R328 | F2 | | |
| C370 | E3 | R329 | F2 | | |
| C381 | G1 | R330 | F2 | | |
| C382 | G2 | R332 | F2 | | |
| C383 | H3 | R333 | F3 | | |
| C384 | H3 | R335 | F3 | | |
| C385 | H3 | R336 | F3 | | |
| C386 | H3 | R337 | F3 | | |
| C1130 | E4 | R338 | F3 | | |
| C1131 | E4 | R339 | F3 | | |
| C1132 | E4 | R340 | F3 | | |
| C1133 | E4 | R341 | F3 | | |
| C1134 | F4 | R342 | F2 | | |
| C1135 | F4 | R343 | F3 | | |
| C3001 | E1 | R344 | F2 | | |
| C3002 | E1 | R345 | F3 | | |
| C3003 | E1 | R346 | F2 | | |
| C3004 | E1 | R347 | E3 | | |
| C3005 | E2 | R348 | E3 | | |
| C3006 | E2 | R349 | G3 | | |
| C3007 | E2 | R350 | E3 | | |
| C3008 | E2 | R351 | E4 | | |
| C3009 | E2 | R352 | E4 | | |
| C3010 | E2 | R353 | E4 | | |
| C1017 | E2 | R354 | E4 | | |
| C1018 | E2 | R355 | F3 | | |
| C3057 | H4 | R356 | F3 | | |
| C3058 | H4 | R357 | F3 | | |
| C3059 | H4 | R358 | F3 | | |
| C3062 | H4 | R359 | F4 | | |
| C3063 | H4 | R360 | F4 | | |
| C3064 | H4 | R361 | F4 | | |
| C3065 | H4 | R362 | F4 | | |
| C3066 | H4 | R363 | G3 | | |
| C3069 | G4 | R364 | G3 | | |
| C3070 | G4 | R365 | G4 | | |
| C3071 | G4 | R366 | G4 | | |
| C3072 | G4 | R367 | G3 | | |
| C3073 | G3 | R368 | G4 | | |
| C3074 | G4 | R369 | G4 | | |
| C3075 | G4 | R370 | G4 | | |
| C3076 | F4 | R371 | G3 | | |
| C3077 | F4 | R372 | E3 | | |
| C3085 | G2 | R381 | G1 | | |
| C3086 | G2 | R382 | G2 | | |
| C3087 | G1 | R383 | G1 | | |
| C3088 | G2 | R384 | G2 | | |
| C3089 | G2 | R385 | F2 | | |
| C3090 | G2 | R390 | H3 | | |

8-9

# CIRCUIT DIAGRAM (BOTTOM RIGHT)



| | | | | | |
|---|---|---|---|---|---|
| C401 | H5 | C5026 | E8 | R1065 | E5 |
| C404 | G5 | C5027 | E8 | R1066 | E5 |
| C405 | G5 | C5028 | E8 | R1067 | E5 |
| C406 | G5 | C5029 | E8 | R1068 | E5 |
| C409 | F6 | C5030 | E8 | R1069 | E5 |
| C410 | F6 | C5031 | G7 | R1070 | E5 |
| C411 | F6 | C5032 | G6 | R3065 | H5 |
| C412 | G5 | C5033 | G7 | R3067 | H5 |
| C413 | G5 | C5034 | G6 | R4070 | G5 |
| C426 | G6 | C5035 | E7 | R4071 | G5 |
| C427 | G6 | C5036 | E7 | R4072 | G5 |
| C428 | G5 | C5037 | E6 | R4074 | E5 |
| C429 | G6 | C5038 | E7 | R4075 | E6 |
| C430 | G5 | C5039 | F7 | R4078 | F5 |
| C431 | H5 | C5040 | F6 | R5051 | H6 |
| C511 | E6 | C5041 | F6 | R5052 | G5 |
| C513 | E6 | C5042 | F7 | R5053 | H6 |
| C514 | E6 | C5050 | E7 | R5054 | H6 |
| C515 | E6 | C5051 | F7 | R5055 | H6 |
| C516 | F6 | C5052 | F8 | R5056 | H5 |
| C517 | E6 | C5053 | F8 | R5057 | H5 |
| C518 | E6 | C5054 | F8 | R5058 | H5 |
| C519 | G6 | C5055 | F8 | R5059 | H5 |
| C520 | G6 | C5056 | F8 | R5060 | H5 |
| C525 | E7 | C5064 | H5 | R5061 | H5 |
| C526 | E6 | C5065 | H5 | ZD1 | E8 |
| C527 | G6 | C5067 | H5 | ZD2 | E8 |
| C528 | E7 | C5068 | H5 | ZD3 | E8 |
| C529 | E7 | C5069 | H5 | ZD4 | E8 |
| C530 | F7 | D501 | E7 | ZD5 | E8 |
| C531 | G7 | D502 | E8 | ZD6 | E8 |
| C532 | E7 | D503 | E8 | ZD3003 | H5 |
| C533 | E7 | D504 | E8 | ZD3004 | H5 |
| C534 | E7 | D505 | E8 | | |
| C535 | F7 | D506 | E8 | | |
| C536 | F7 | D507 | E7 | | |
| C537 | F7 | D508 | E7 | | |
| C538 | H7 | EC3 | H7 | | |
| C539 | H7 | EC4 | H7 | | |
| C540 | E7 | EC5 | H7 | | |
| C541 | E7 | EC6 | G7 | | |
| C542 | F7 | EC7 | G7 | | |
| C543 | F7 | EC8 | F7 | | |
| C544 | E7 | IC501 | E7 | | |
| C545 | E7 | IC502 | F7 | | |
| C546 | E7 | IC503 | H6 | | |
| C547 | F7 | IC551-A | H5 | | |
| C548 | H7 | IC551-B | H6 | | |
| C549 | F7 | IC1004-E | F5 | | |
| C550 | F7 | IC3007 | F5 | | |
| C551 | H6 | IC3008 | G5 | | |
| C552 | H5 | IC3009 | F5 | | |
| C553 | H5 | JK501 | G8 | | |
| C554 | H7 | L403 | G5 | | |
| C555 | H7 | L404 | H5 | | |
| C556 | G7 | L500 | E7 | | |
| C566 | G6 | L501 | E7 | | |
| C567 | H6 | L502 | E7 | | |
| C568 | H6 | L503 | F7 | | |
| C569 | G6 | L504 | G7 | | |
| C570 | G6 | L507 | H7 | | |
| C571 | H6 | L508 | G7 | | |
| C572 | H6 | L509 | F7 | | |
| C573 | G6 | L512 | H7 | | |
| C574 | G6 | L515 | F7 | | |
| C575 | H6 | L2030 | H7 | | |
| C576 | F6 | L2031 | H7 | | |
| C577 | F6 | L2032 | F7 | | |
| C579 | H7 | L2034 | G7 | | |
| C581 | H7 | L2036 | F7 | | |
| C582 | H7 | L2037 | G7 | | |
| C583 | F6 | L2038 | F7 | | |
| C584 | G7 | L2045 | G8 | | |
| C585 | G7 | R8 | E7 | | |
| C586 | H7 | R9 | E7 | | |
| C588 | G7 | R407 | G5 | | |
| C589 | G7 | R503 | E6 | | |
| C590 | G7 | R504 | H6 | | |
| C593 | G7 | R505 | E7 | | |
| C594 | G7 | R506 | E7 | | |
| C595 | G7 | R507 | G7 | | |
| C598 | G7 | R508 | F7 | | |
| C599 | G7 | R509 | H7 | | |
| C2216 | G7 | R510 | E7 | | |
| C3060 | H5 | R511 | E7 | | |
| C3061 | H5 | R512 | E7 | | |
| C3067 | H5 | R513 | F7 | | |
| C3068 | H5 | R514 | F7 | | |
| C4001 | E5 | R518 | F6 | | |
| C4002 | E5 | R519 | G7 | | |
| C4003 | F5 | R522 | F7 | | |
| C4004 | F5 | R523 | G7 | | |
| C4005 | E5 | R524 | G7 | | |
| C4006 | E5 | R550 | H7 | | |
| C4007 | E5 | R551 | H7 | | |
| C4008 | F6 | R552 | H7 | | |
| C4030 | G5 | R553 | F8 | | |
| C5011 | G7 | R554 | F8 | | |
| C5015 | H7 | R555 | F8 | | |
| C5016 | G7 | R556 | F8 | | |
| C5017 | H7 | R557 | F8 | | |
| C5018 | H7 | R558 | F7 | | |
| C5019 | H7 | R559 | E7 | | |
| C5020 | H7 | R560 | E7 | | |
| C5021 | H7 | R561 | E8 | | |
| C5022 | H7 | R562 | E8 | | |
| C5023 | G7 | R563 | E8 | | |
| C5024 | H7 | R564 | E8 | | |
| C5025 | H7 | | | | |