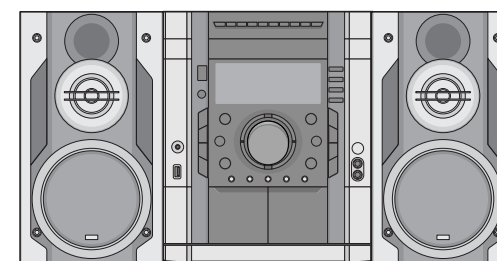




# 3CD CHANGER KARAOKE SYSTEM **SERVICE MANUAL**

## **CAUTION**

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.



**MODEL: LM-K3960A, LMS-K3960V**



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# SECTION 1. GENERAL

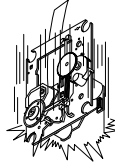
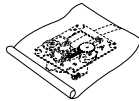
## ☐ SERVICING PRECAUTIONS

## ■ NOTES REGARDING HANDLING OF THE PICK-UP

### 1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

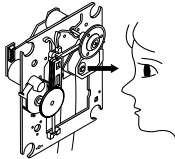
Storage in conductive bag



Drop impact

### 2. Repair notes

- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes!  
Absolutely never permit laser beams to enter the eyes!  
Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.

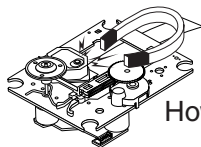


NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

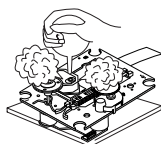
### 5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.

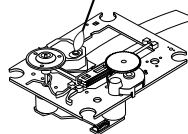
Magnet



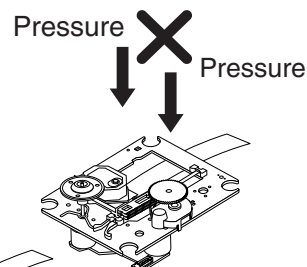
How to hold the pick-up



Cotton swab



Conductive Sheet



### 6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

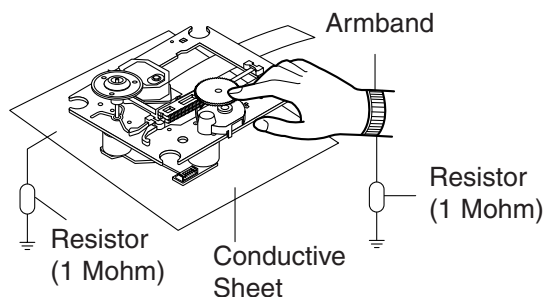
## ■ NOTES REGARDING COMPACT DISC PLAYER REPAIRS

### 1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

### 2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.  
When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M  $\Omega$ )
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



### CLEARING MALFUNCTION

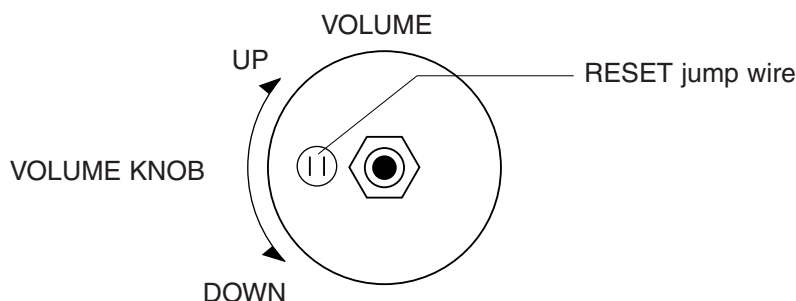
You can reset your unit to initial status if malfunction occur(button malfunction, display, etc.).

Using a pointed good conductor(such as driver), simply short the RESET jump wire on the inside of the volume knob for more than 3 seconds.

If you reset your unit, you must reenter all its settings(stations, clock, timer)

**NOTE:** 1. To operate the RESET jump wire, pull the volume rotary knob and release it.

2. If you wish to operate the RESET jump wire, it is necessary to unplug the power cord.



## ■ ESD PRECAUTIONS

### ■ Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.**

8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

### CAUTION. GRAPHIC SYMBOLS

|                                                                                     |                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK. |
|  | THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.                                                                               |

# SPECIFICATIONS

## **General**

|                                 |                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------|
| Power supply                    | Refer to the main label.                                                                        |
| Power consumption               | 70 W (LM-K3960Q/LM-KW3960Q/LM-K3860Q model)<br>50 W (LM-K3565Q model)<br>30 W (LM-K3365Q model) |
| Net Weight                      | 6.5 kg                                                                                          |
| External dimensions (W x H x D) | 272 X 322 X 354 mm                                                                              |

## **Tuner/Amplifier**

|                        |                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FM Tuning Range        | 87.5 - 108.0 MHz or 65 -74 MHz, 87.5 -108.0 MHz                                                                                                                                                                 |
| Intermediate Frequency | 10.7 MHz                                                                                                                                                                                                        |
| Signal to Noise Ratio  | 60/55 dB (Mono/Stereo)                                                                                                                                                                                          |
| Frequency Response     | 140 - 10000 Hz                                                                                                                                                                                                  |
| AM Tuning Range        | 522 - 1620 kHz or 520 - 1720 kHz                                                                                                                                                                                |
| Intermediate Frequency | 450 kHz                                                                                                                                                                                                         |
| Signal to Noise Ratio  | 30 dB                                                                                                                                                                                                           |
| Frequency Response     | 140 - 1800 Hz                                                                                                                                                                                                   |
| Output Power           | LM-K3960Q/LM-KW3960Q model - 130 W + 130 W (4Ω , THD 10 %)<br>LM-K3860Q model - 100 W + 100 W (4Ω , THD 10 %)<br>LM-K3565Q model - 50 W + 50 W (4Ω , THD 10 %)<br>LM-K3365Q model - 30 W + 30 W (4Ω , THD 10 %) |
| T.H.D                  | 0.5 %                                                                                                                                                                                                           |
| Frequency Response     | 140 - 20000 Hz                                                                                                                                                                                                  |
| Signal-to-noise ratio  | 75 dB                                                                                                                                                                                                           |

## **DVD/VCD/CD player**

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Frequency response (audio)    | 40 - 20000 Hz                                      |
| Signal-to-noise ratio (audio) | More than 75 dB (1 kHz)                            |
| Signal-to-noise ratio (video) | More than 55 dB (1 kHz)                            |
| Dynamic range (audio)         | More than 80 dB                                    |
| Video output                  | 1.0 V (p-p), 75Ω                                   |
| S-video output                | (Y) 1.0 V (p-p), 75Ω<br>(C) 0.3 V (p-p), 75Ω       |
| Component Video output        | (Y) 1.0 V (p-p), 75Ω<br>(Pb)/(Pr) 0.7 V (p-p), 75Ω |

## **Cassette tape player**

|                       |                                       |
|-----------------------|---------------------------------------|
| Tape Speed            | 3000 ± 3 % (MTT-111.<br>NORMAL-SPEED) |
| Wow Flutter           | 0.25 %<br>(TT -111, JIS-WTD)          |
| F.F/REW. Time         | 120 sec (C-60)                        |
| Frequency Response    | 250 - 8000 Hz                         |
| Signal to Noise Ratio | 43 dB                                 |
| Channel Separation    | 50 dB (P/B)/45 dB (R/P)               |
| Erase Ratio           | 55 dB (MTT-5511)                      |

## **Speakers**

|                            |                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------|
| Speaker Name               | Front Speaker (L/R)                                                                                                |
| Type                       | Bass Reflex 2Way 3Speaker (LMS-K3960V/LMS-KW3960V/LMS-K3860V)<br>Bass Reflex 2Way 2Speaker (LMS-K3565V/LMS-K3365V) |
| Impedance                  | 4Ω                                                                                                                 |
| Frequency Response         | 55 - 20000 Hz                                                                                                      |
| Sound Pressure Level       | 86 dB/W (1m)                                                                                                       |
| Rated Input Power          | 130 W (LMS-K3960V/LMS-KW3960V)<br>100 W (LMS-K3860V)<br>50 W (LMS-K3565V)<br>30 W (LMS-K3365V)                     |
| Max. Input Power           | 260 W (LMS-K3960V/LMS-KW3960V)<br>200 W (LMS-K3860V)<br>100 W (LMS-K3565V)<br>60 W (LMS-K3365V)                    |
| Net Dimensions (W x H x D) | 214 X 386 X 318 mm (LMS-K3960V/LMS-KW3960V/LMS-K3860V)<br>229 X 224 X 286 mm (LMS-K3565V/LMS-K3365V)               |
| Net Weight                 | 6.3 kg (LMS-K3960V/LMS-KW3960V/LMS-K3860V)<br>4.2 kg (LMS-K3565V)<br>3.8 kg (LMS-K3365V)                           |

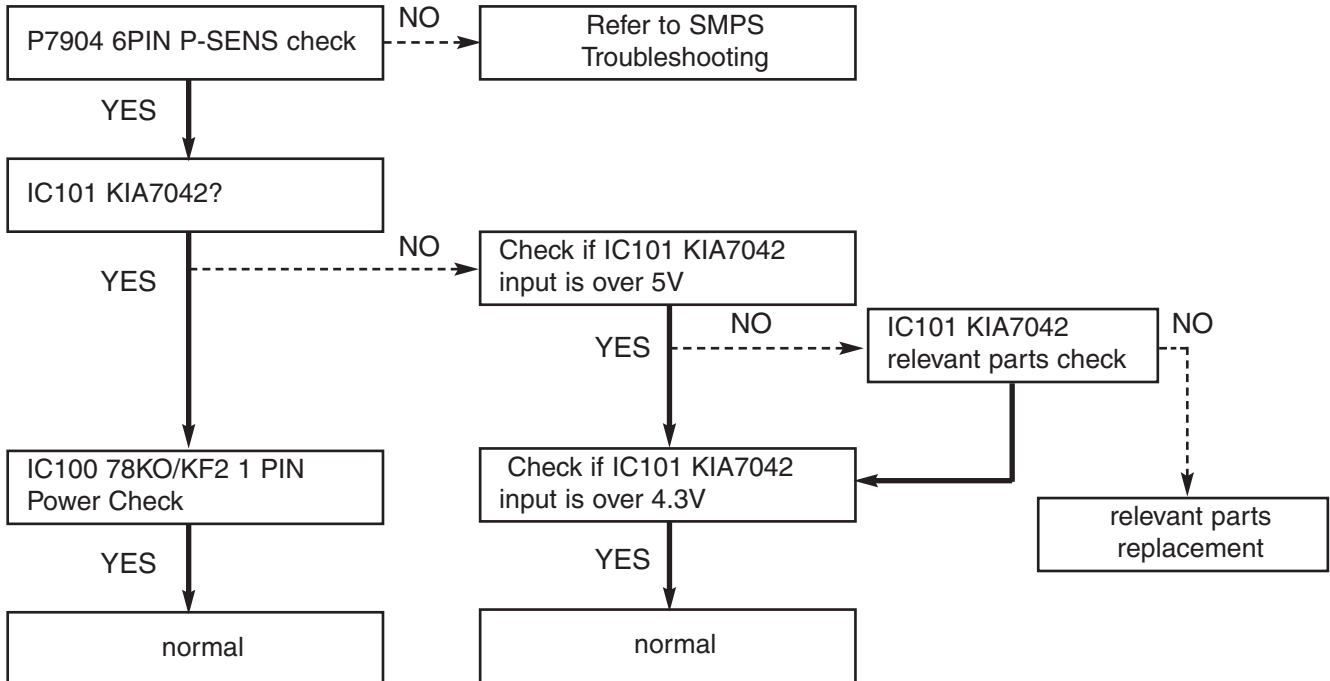
# MEMO

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

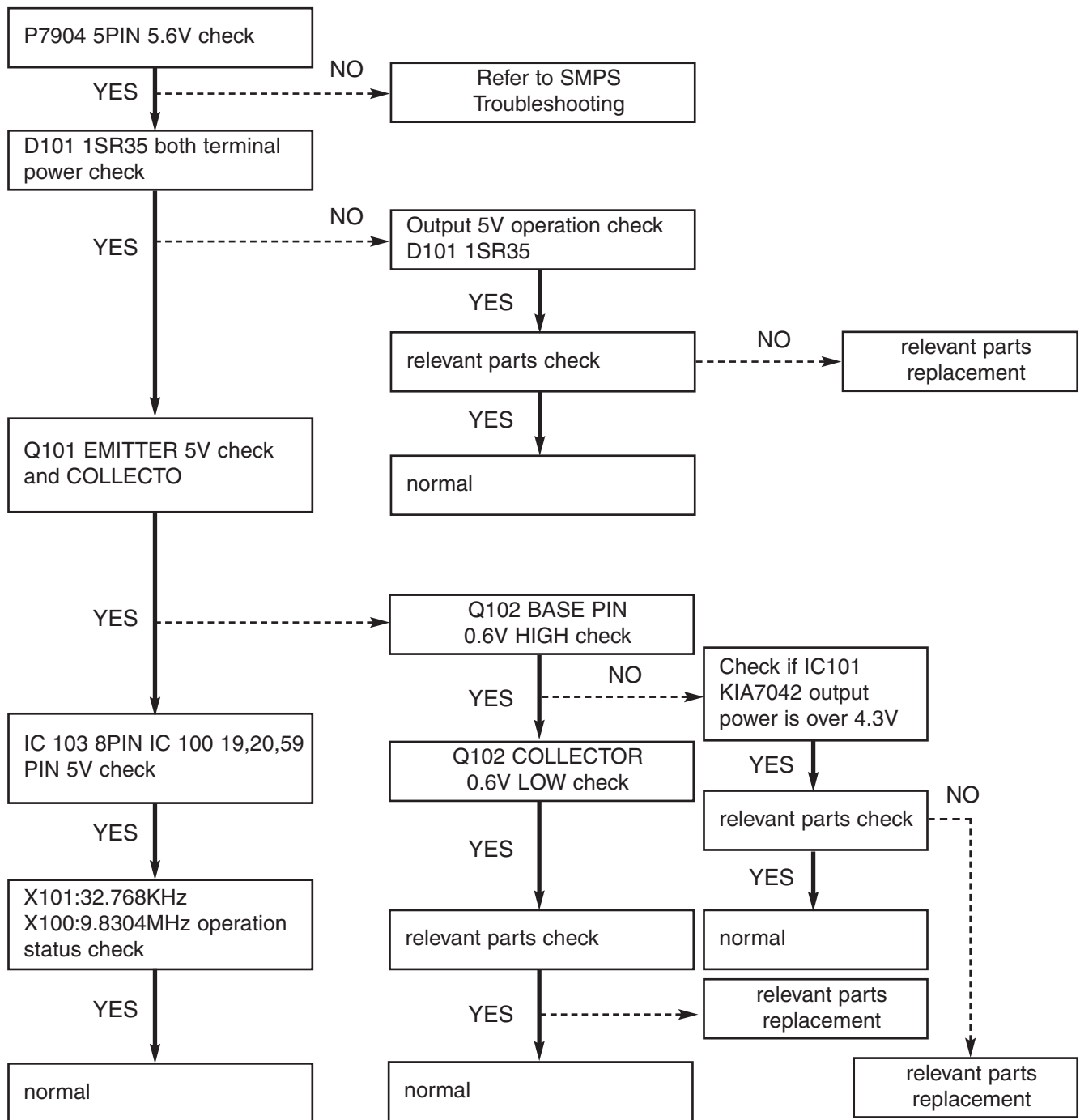
## SECTION 2. ELECTRICAL SECTION

### □ ELECTRICAL TROUBLESHOOTING GUIDE

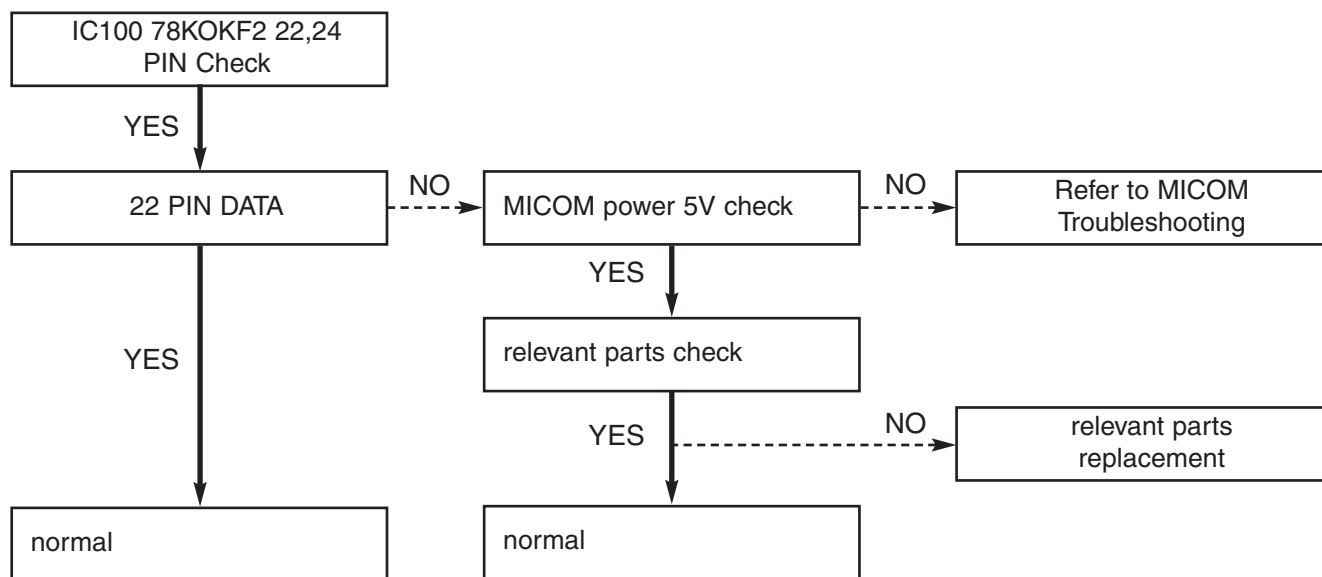
#### ■ MICOM PART CHECK I



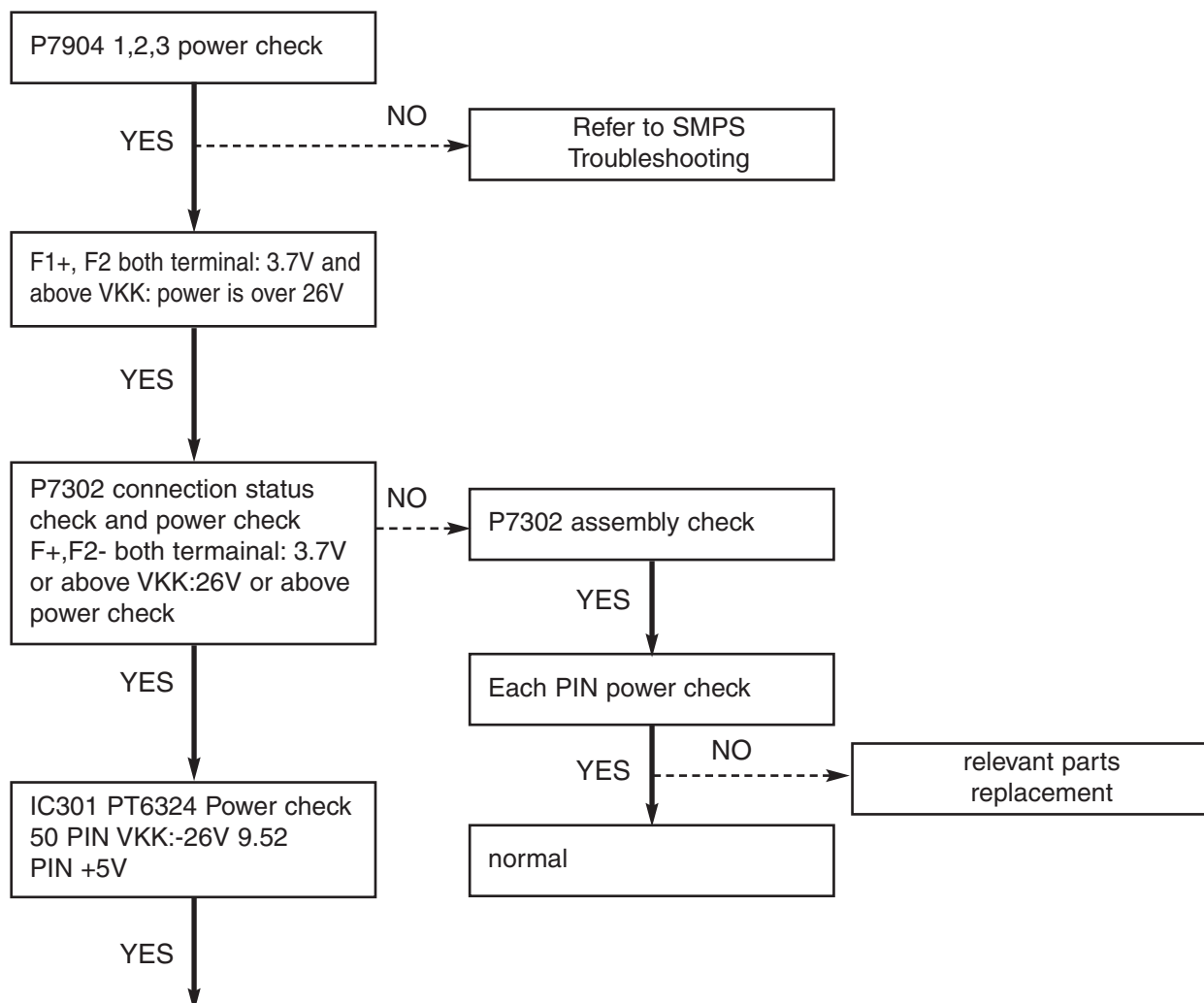
## ■ MICOM PART CHECK II

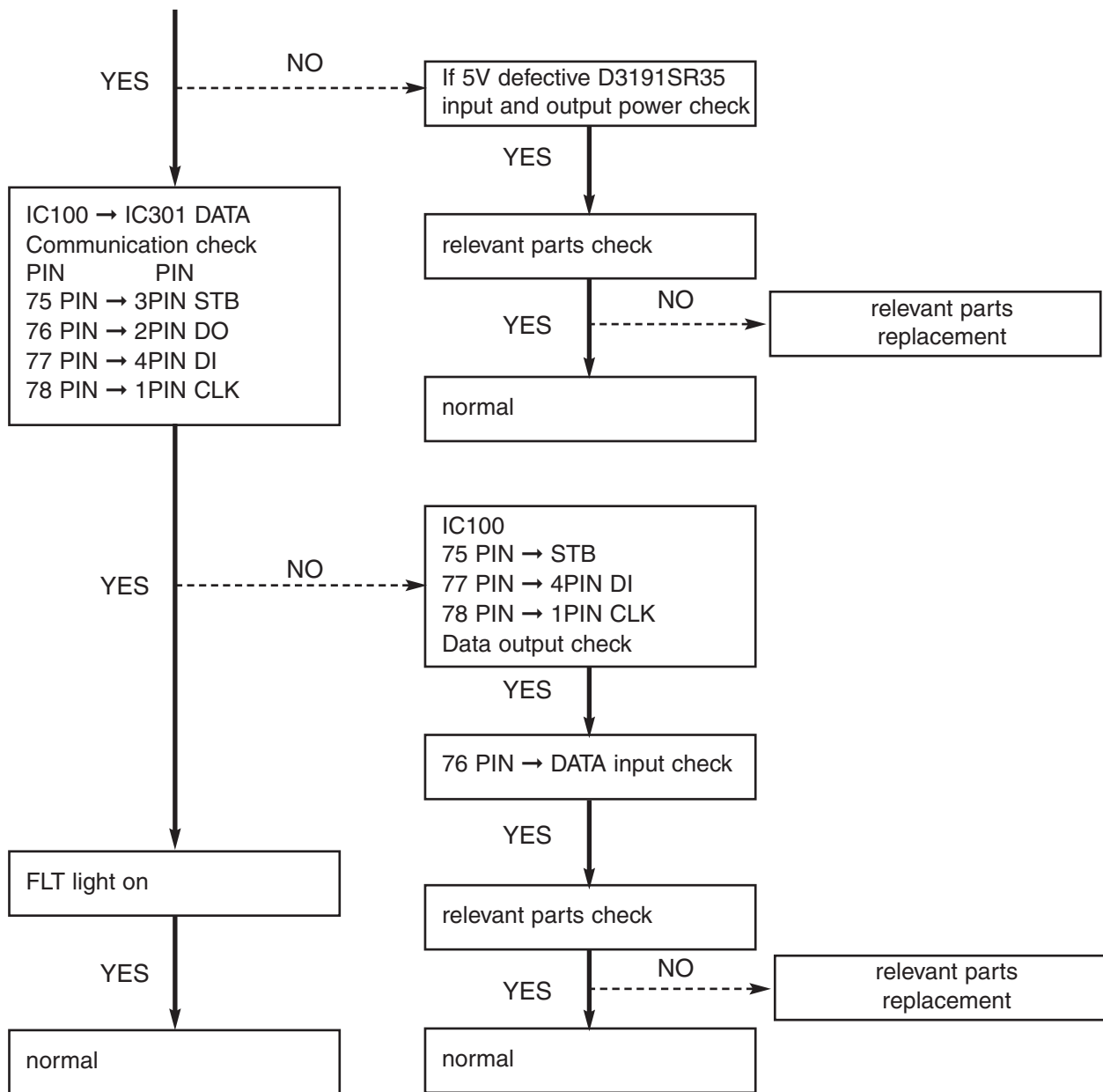


## ■ IC103 KS4CD21CS CHECK

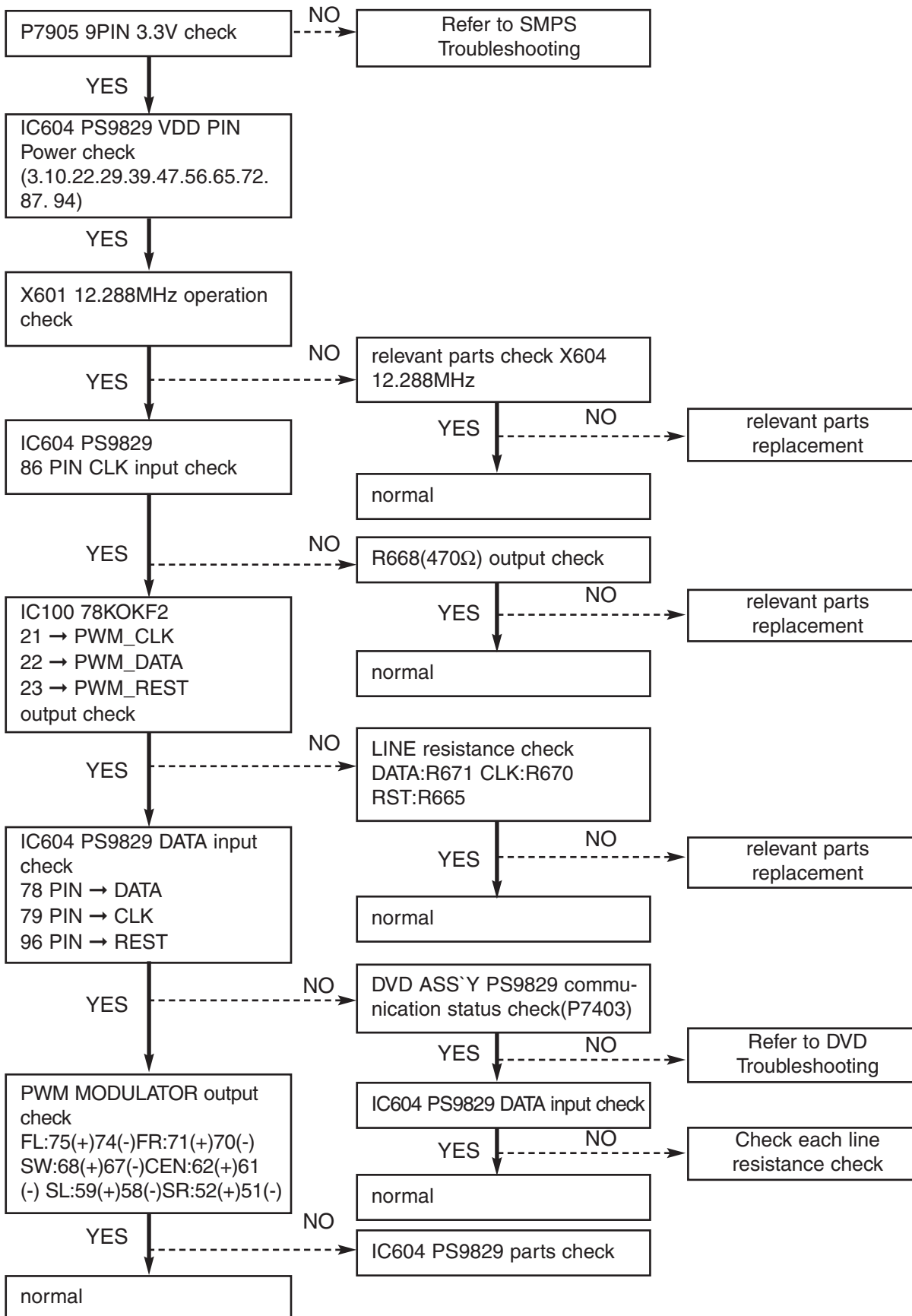


## ■ FLD DISPLAY CHECK

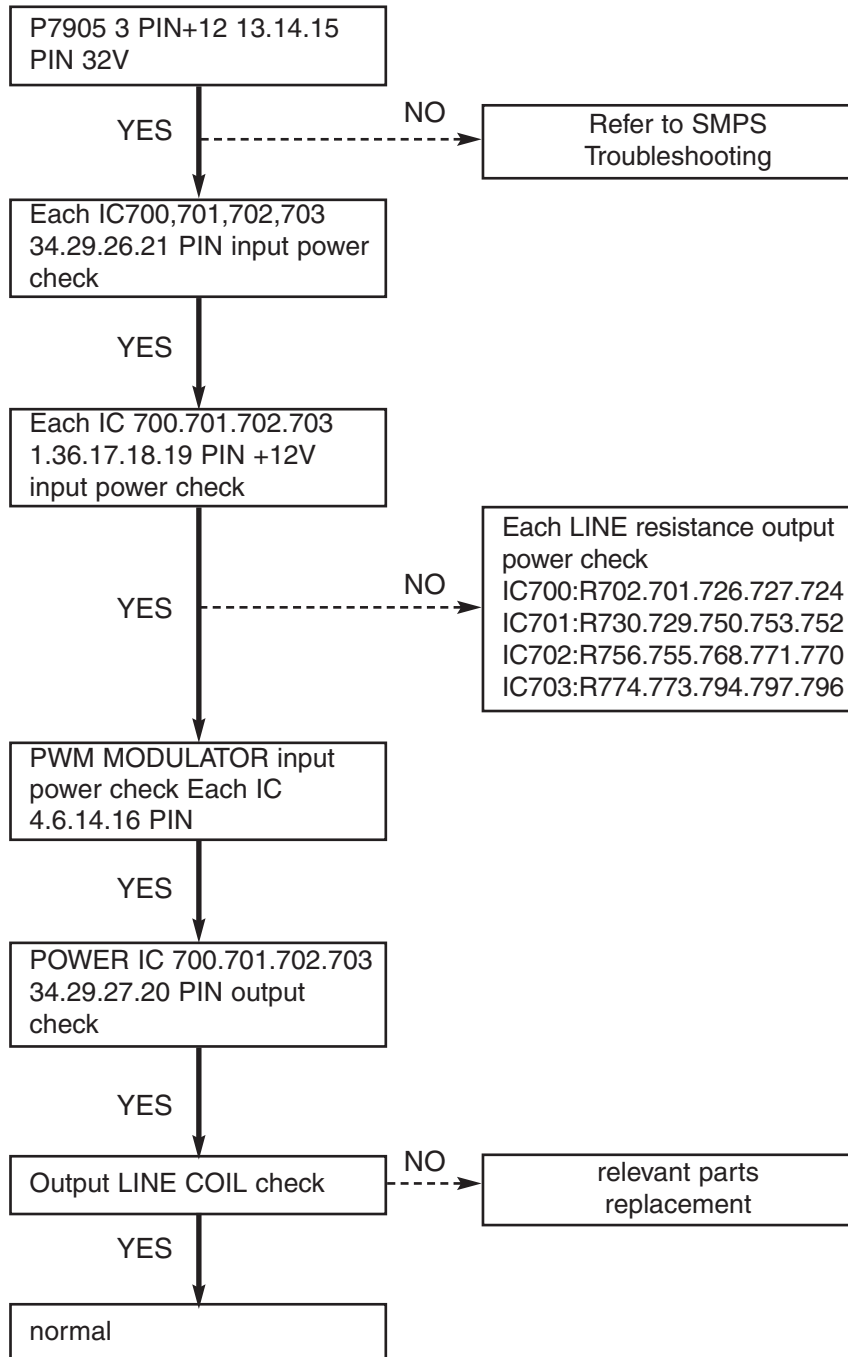




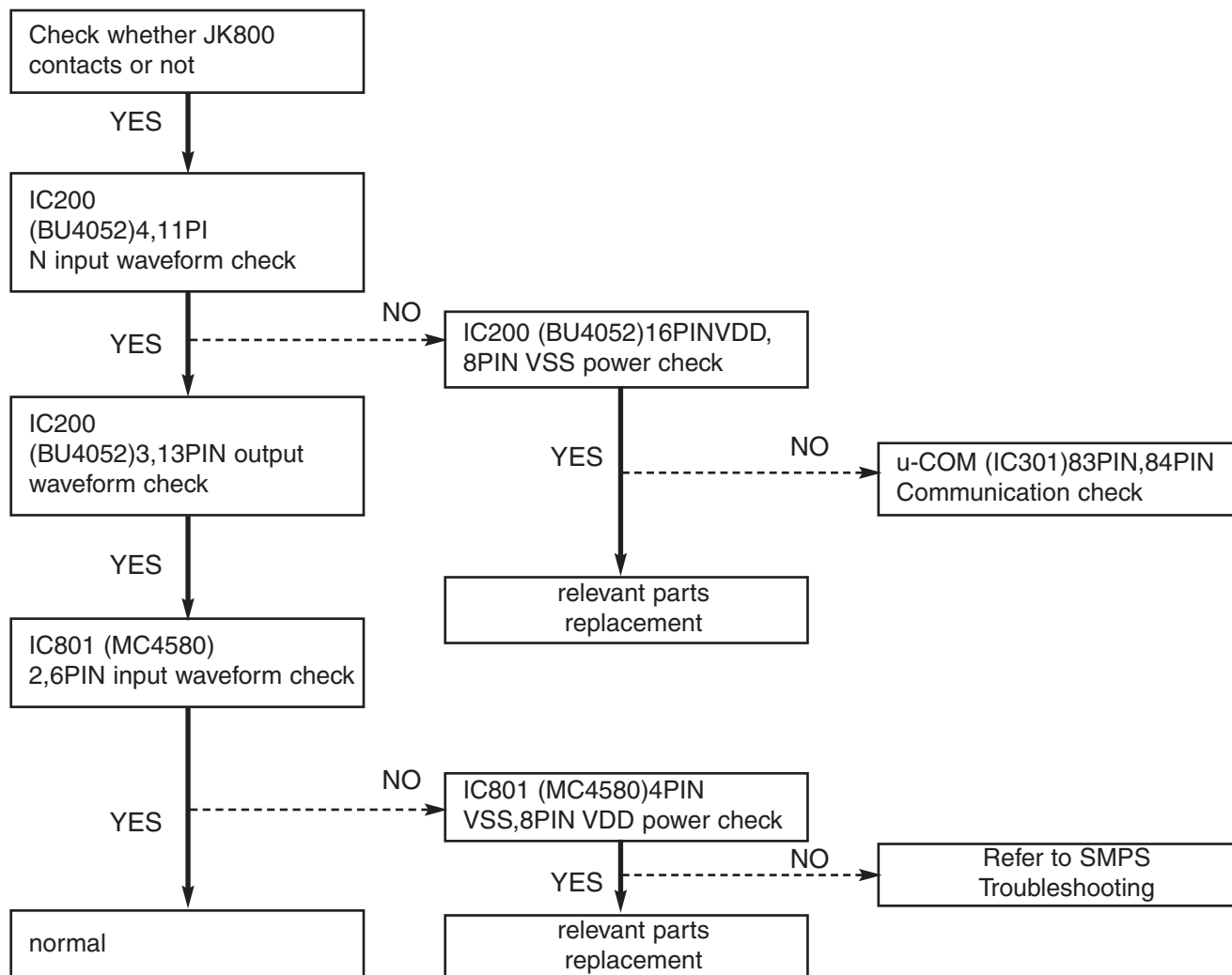
## ■ PWM ALTERATION PART CHECK



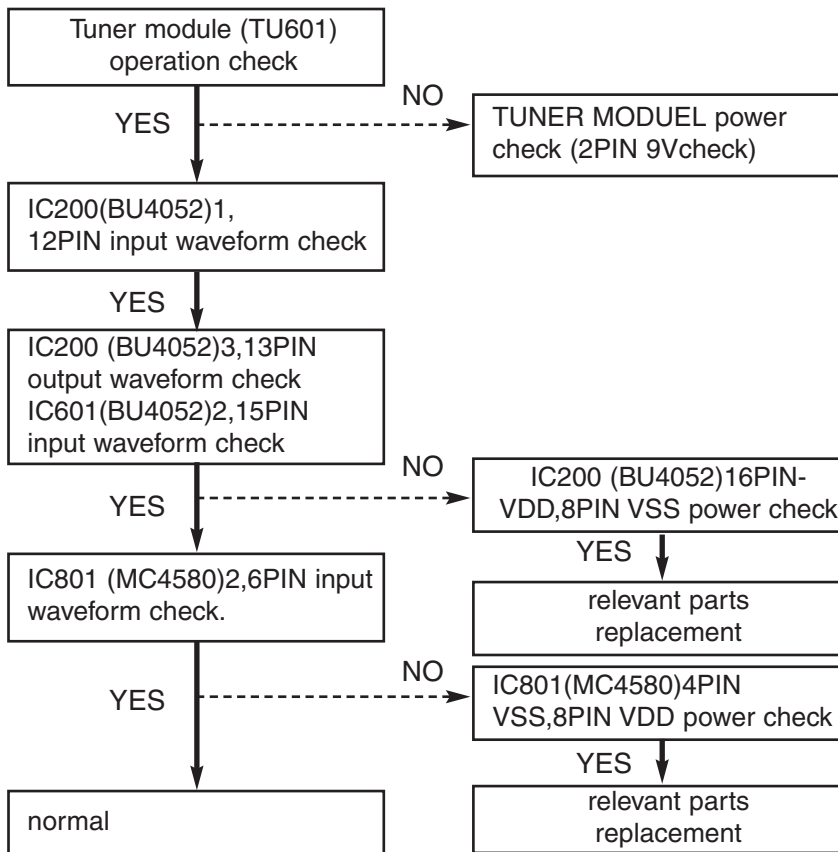
## ■ POWER AMP PART CHECK



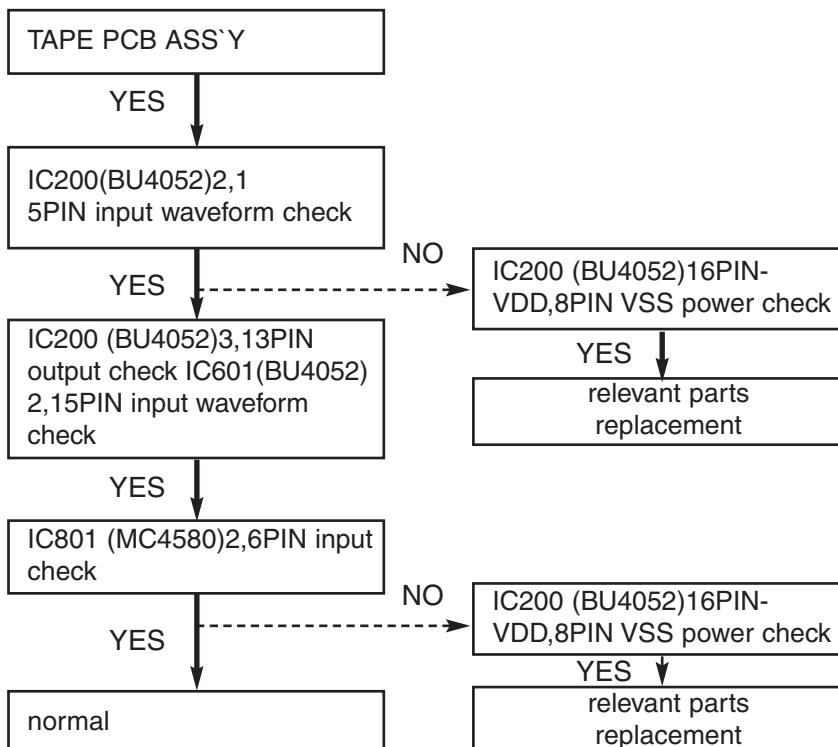
## ■ AUX FUNCTION



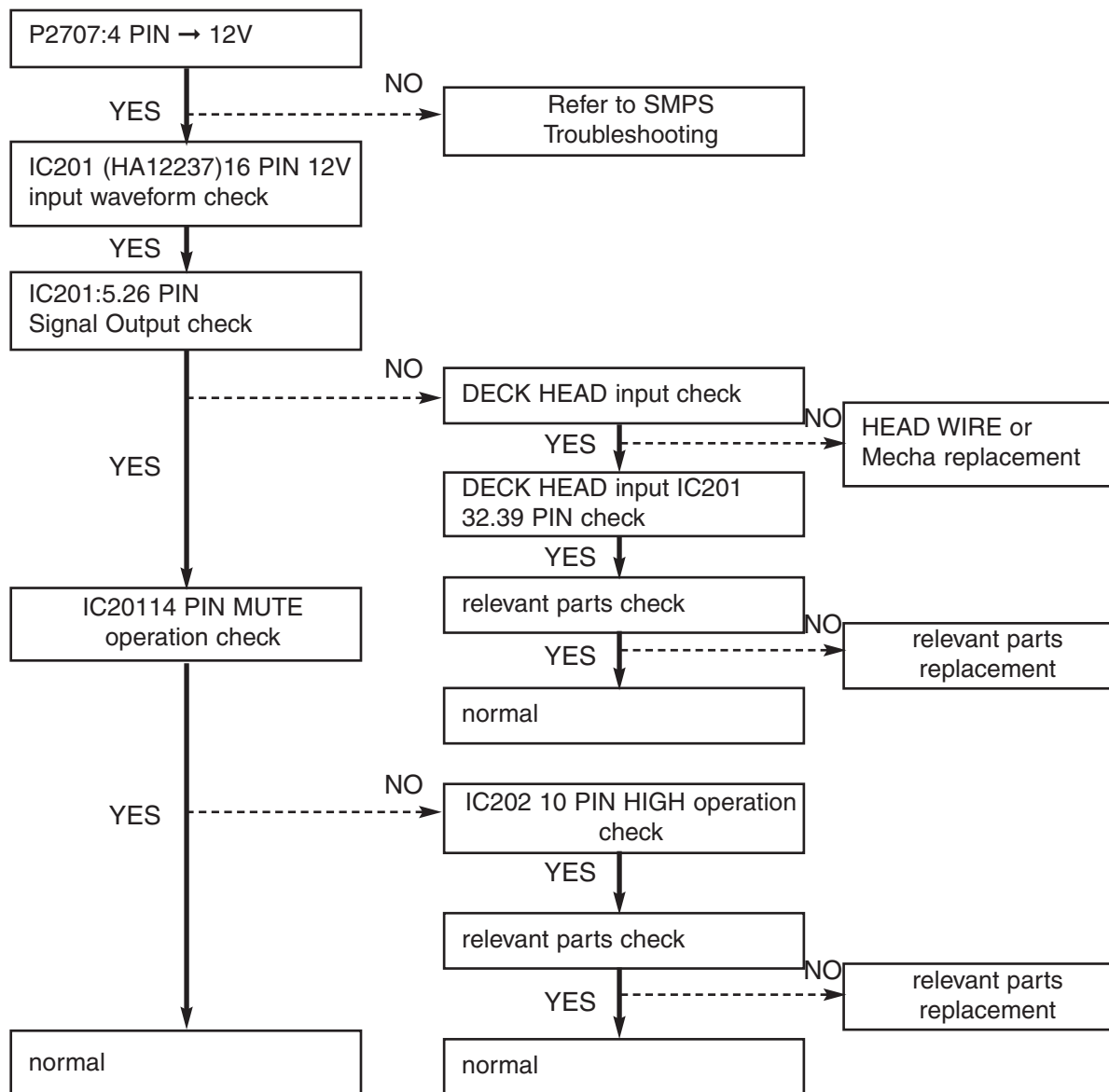
## ■ TUNER FUNCTION CHECK



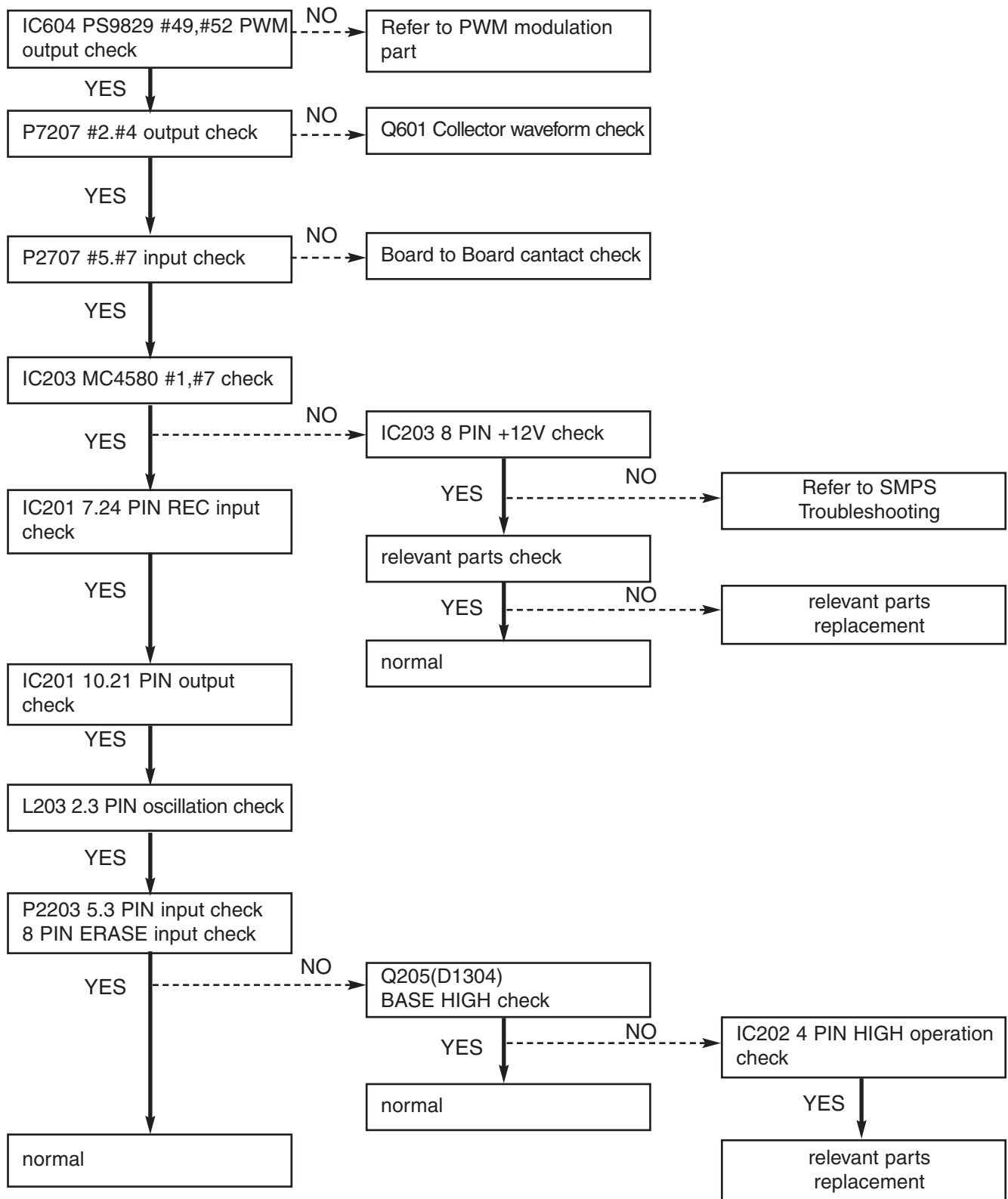
## ■ TAPE FUNCTION CHECK



## ■ TAPE PLAY PART CHECK

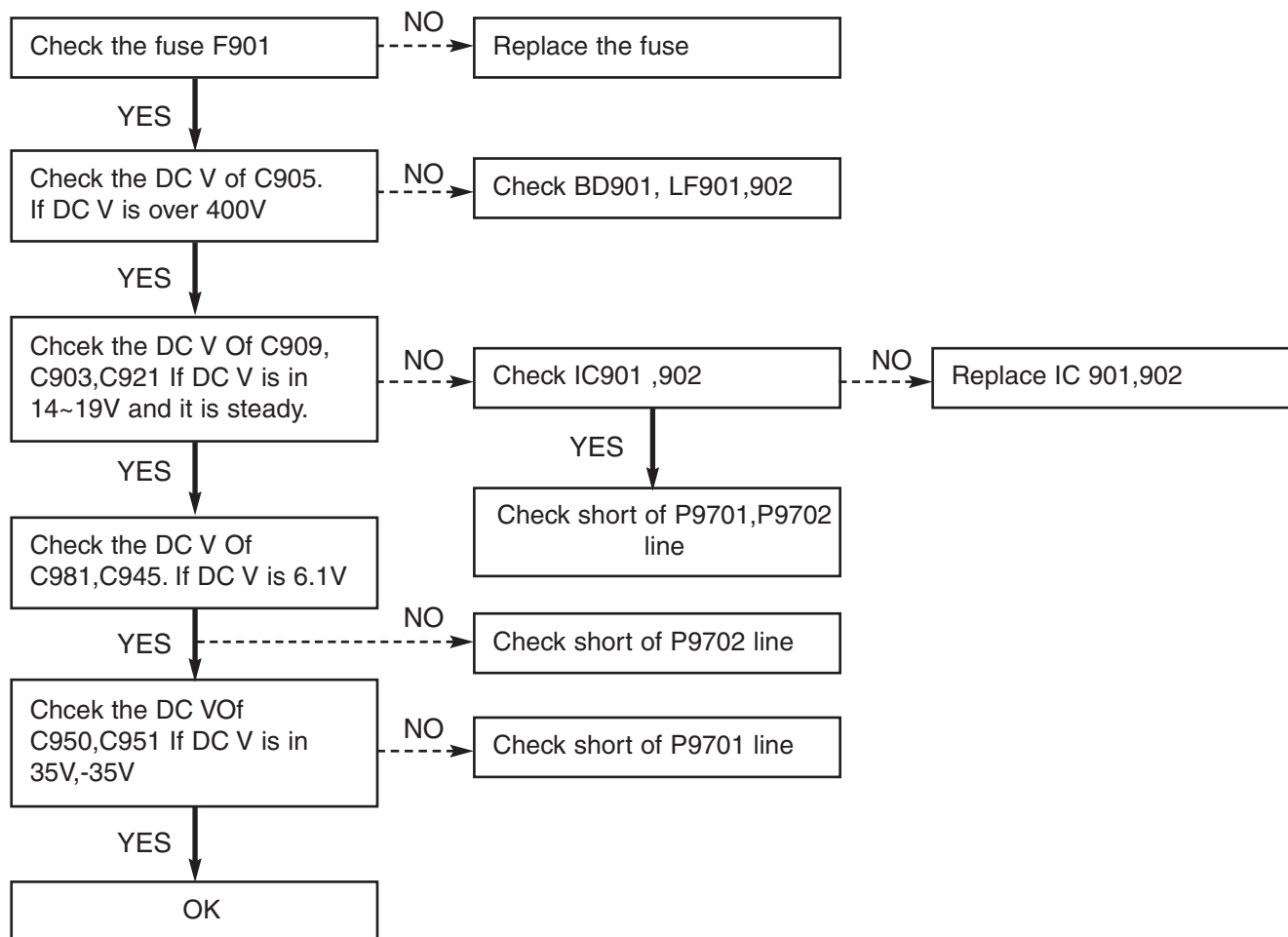


## ■ TAPE REC PART CHECK

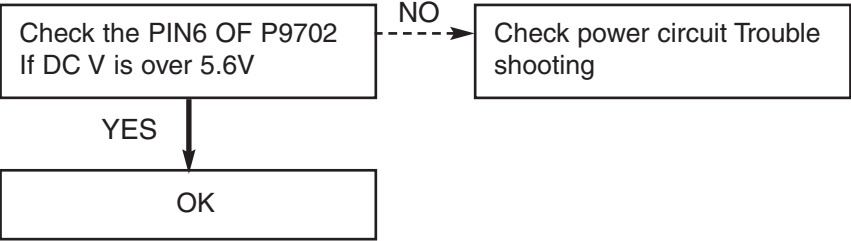


## ■ SMPS POWER CIRCUIT

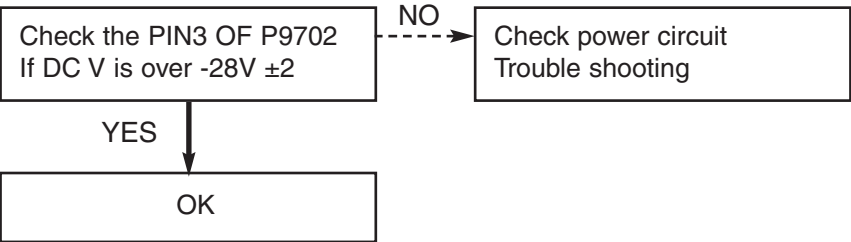
### \*MAIN PART



**\*P-SENS PART**

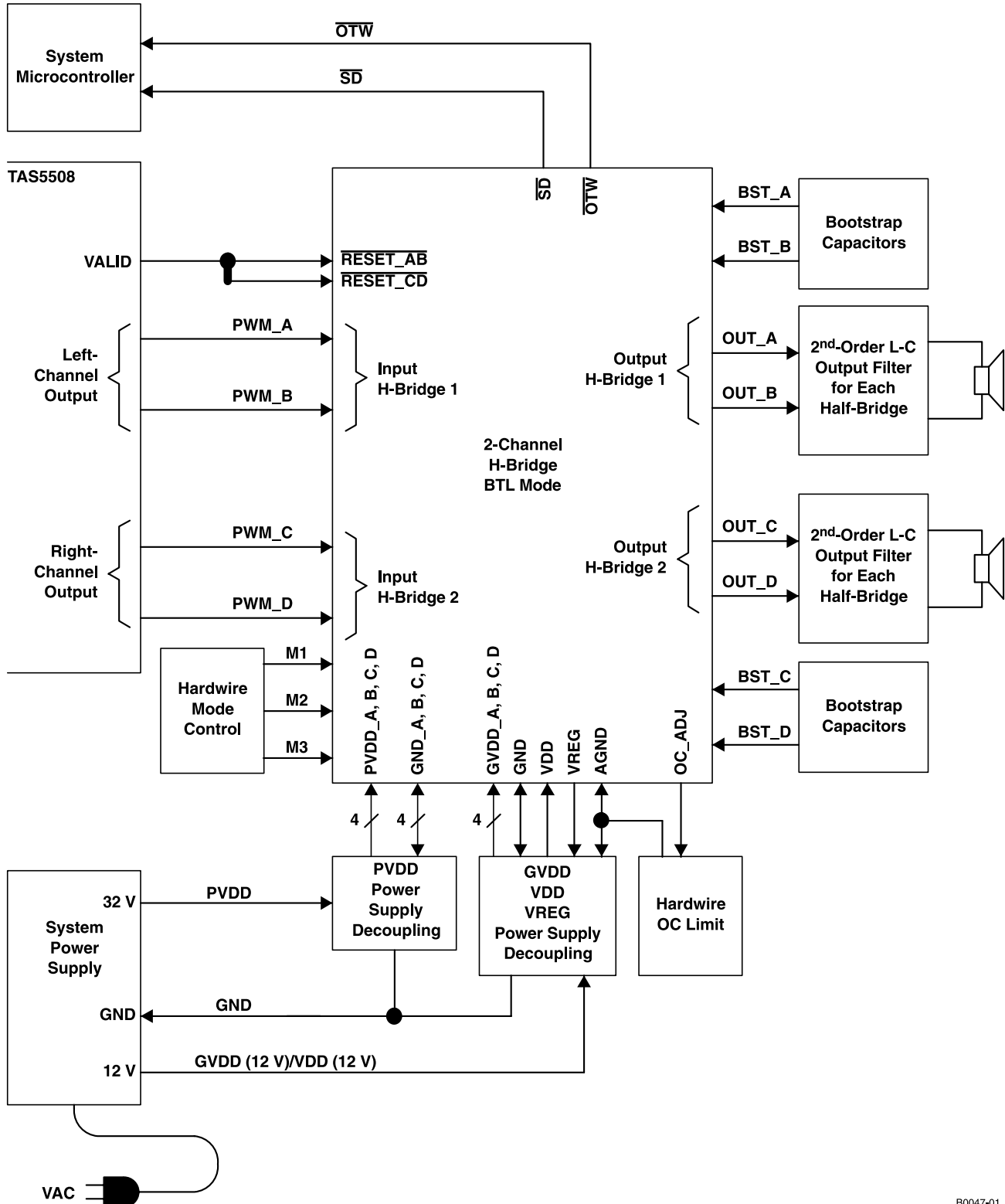


**\*VKK PART**



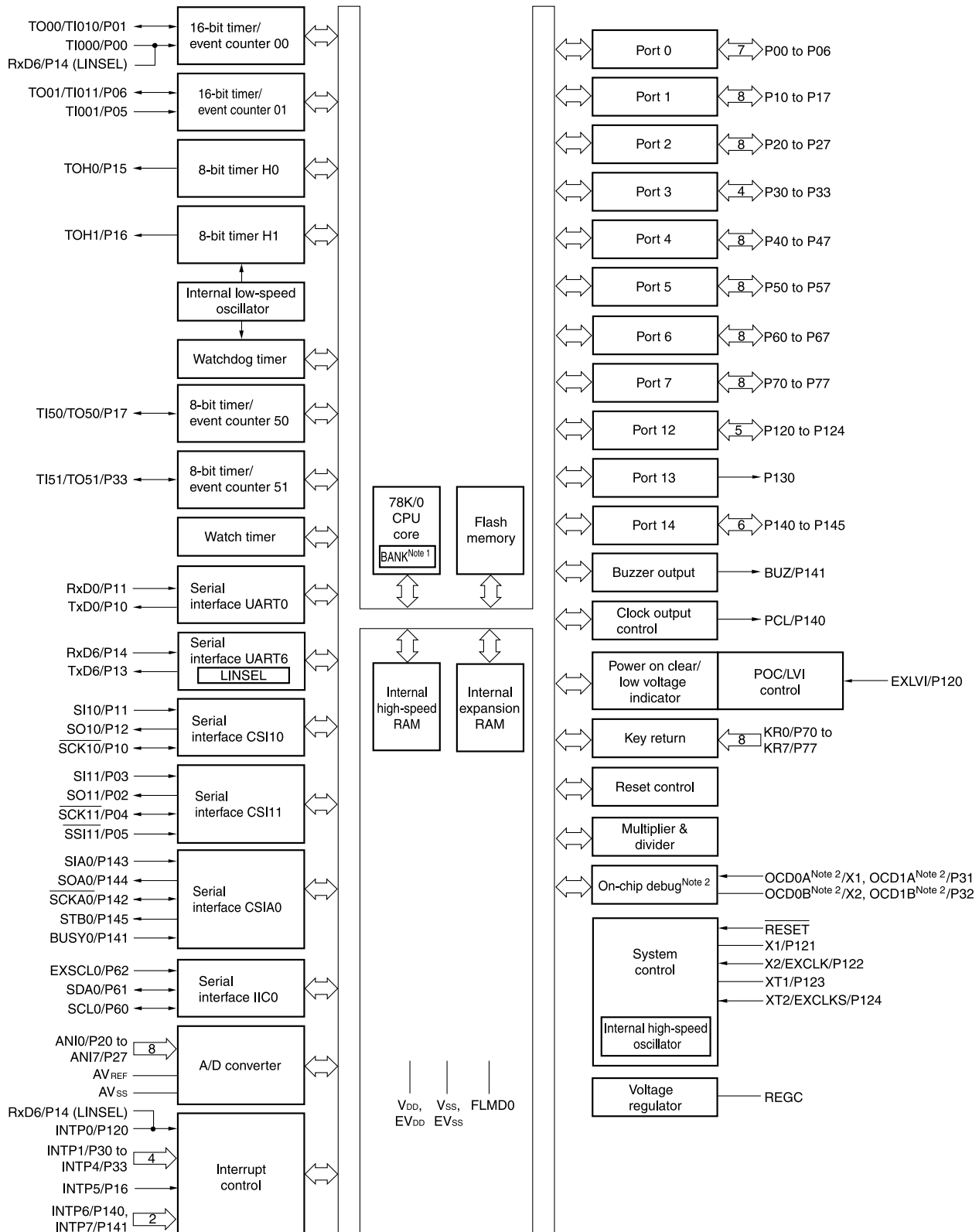
# INTERNAL BLOCK DIAGRAM of ICs

## •TAS5142 BLOCK DIAGRAM

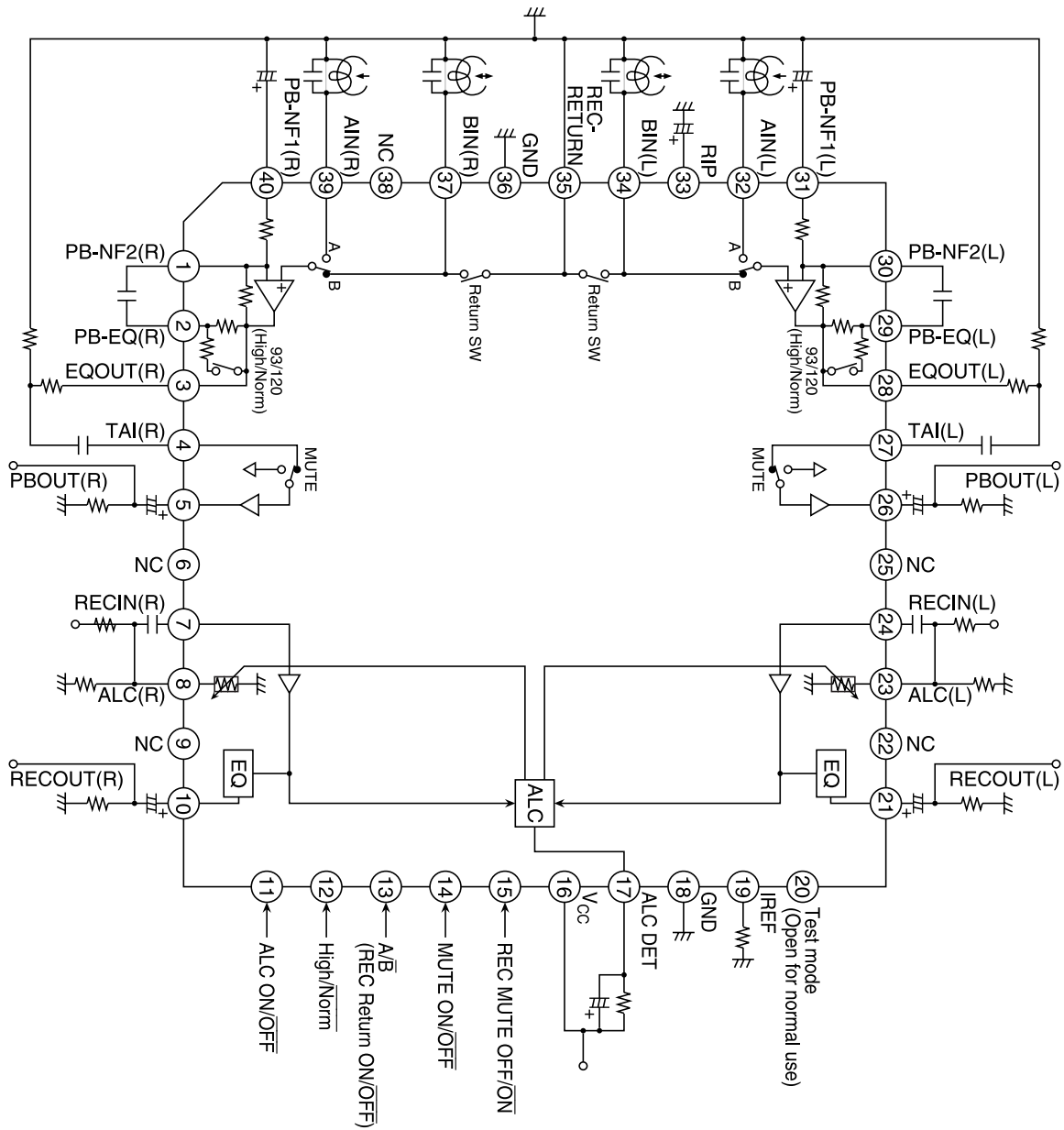


B0047-01

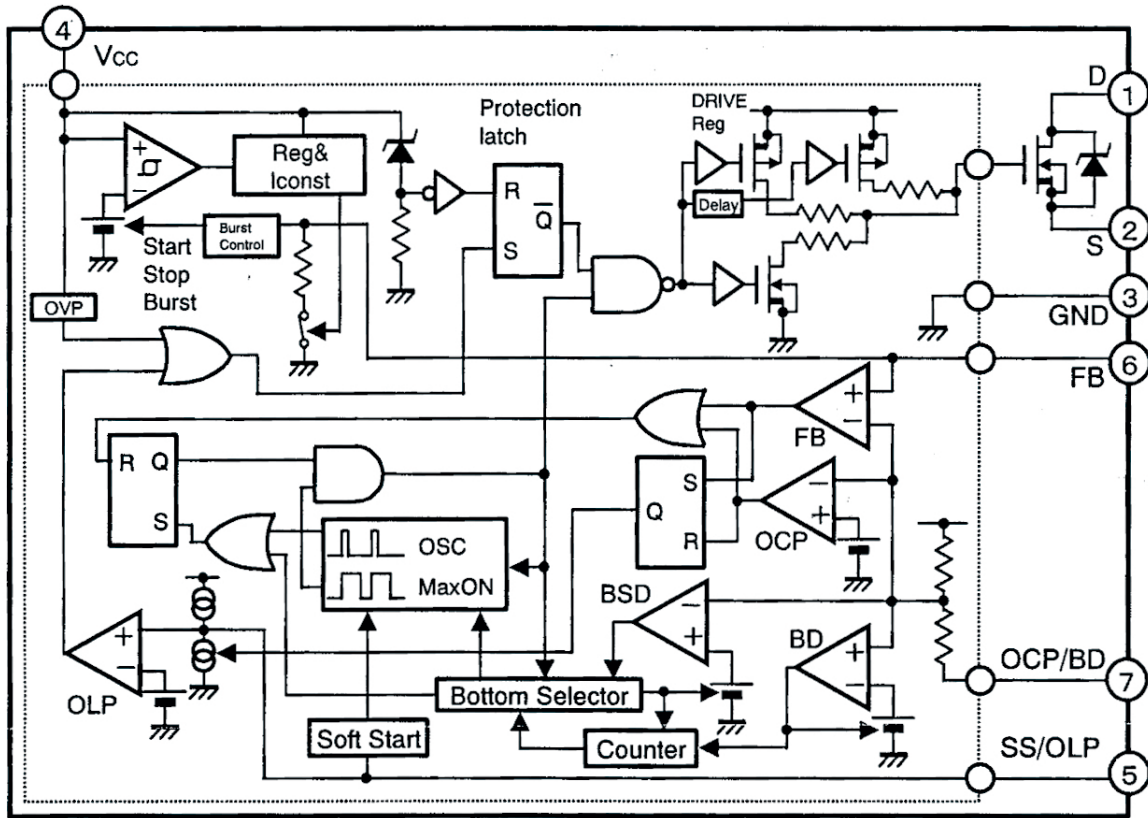
# • U1739EJ2V1UD00/KF2\_E BLOCK DIAGRAM



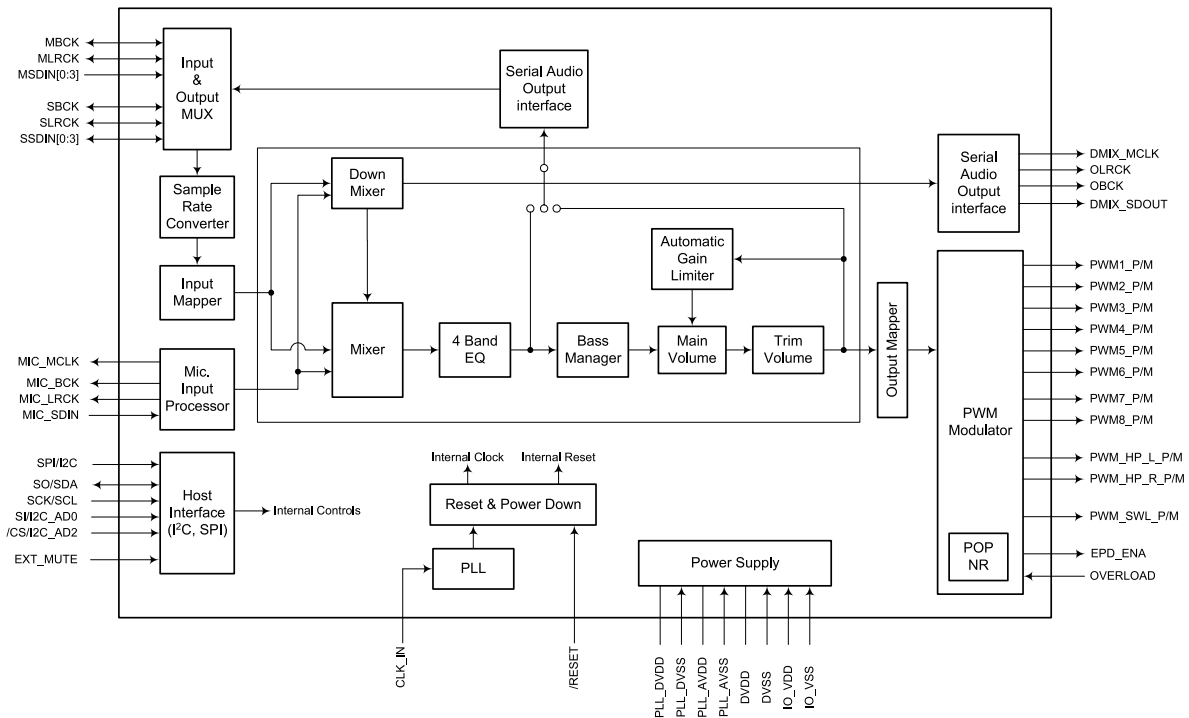
• HA12237F  
BLOCK DIAGRAM



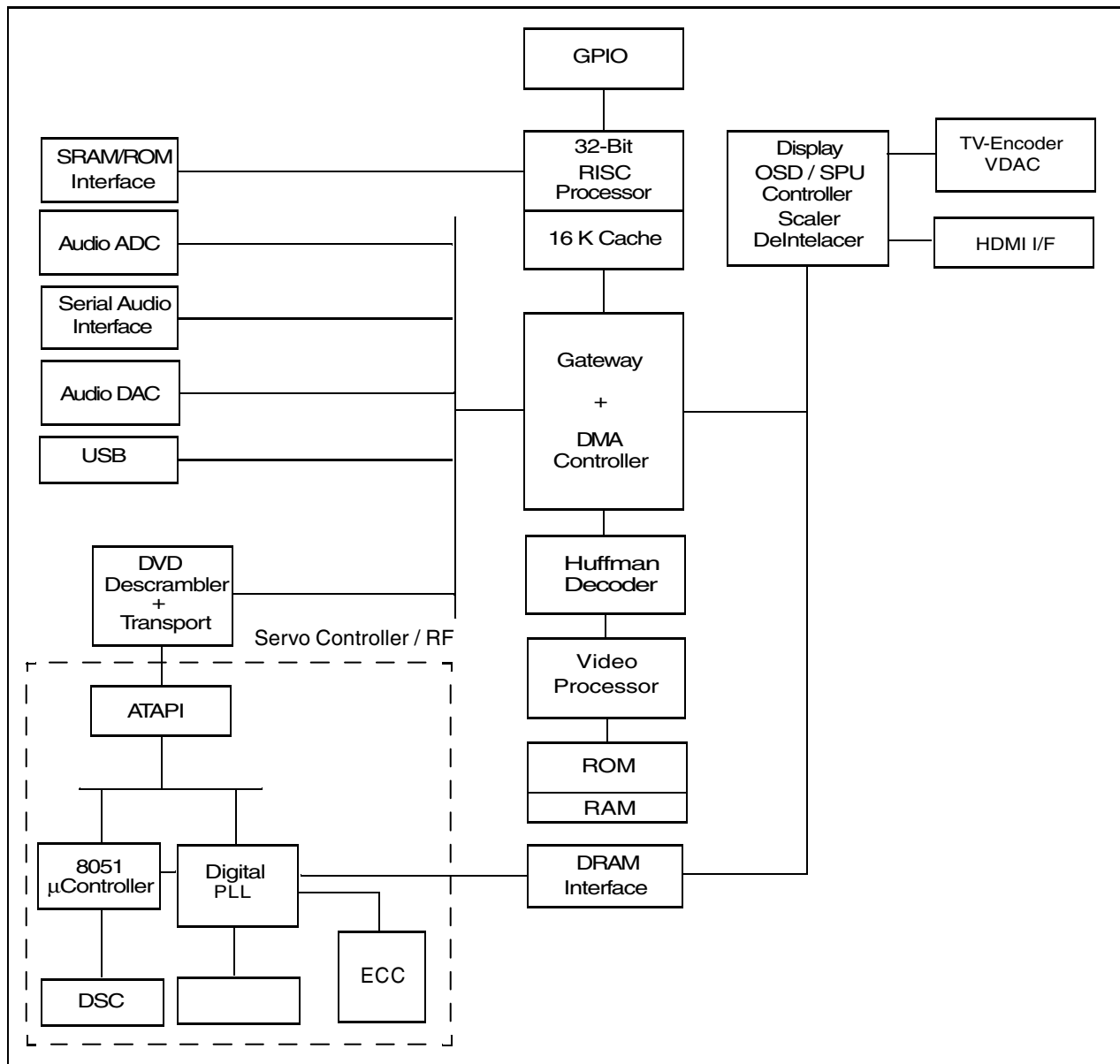
• **STR-S6757IF1905**  
**BLOCK DIAGRAM**



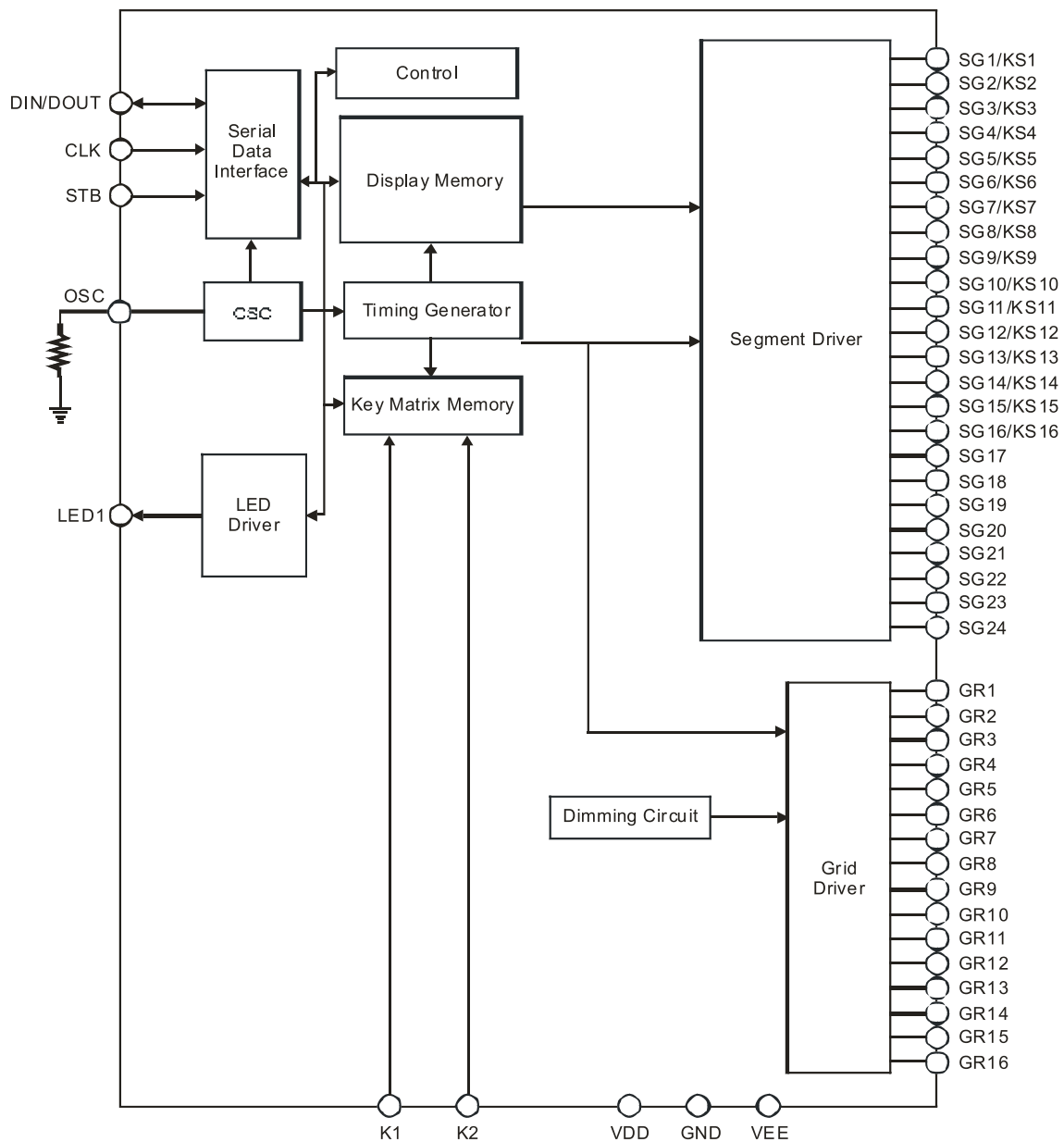
• **PS9829B**  
**BLOCK DIAGRAM**



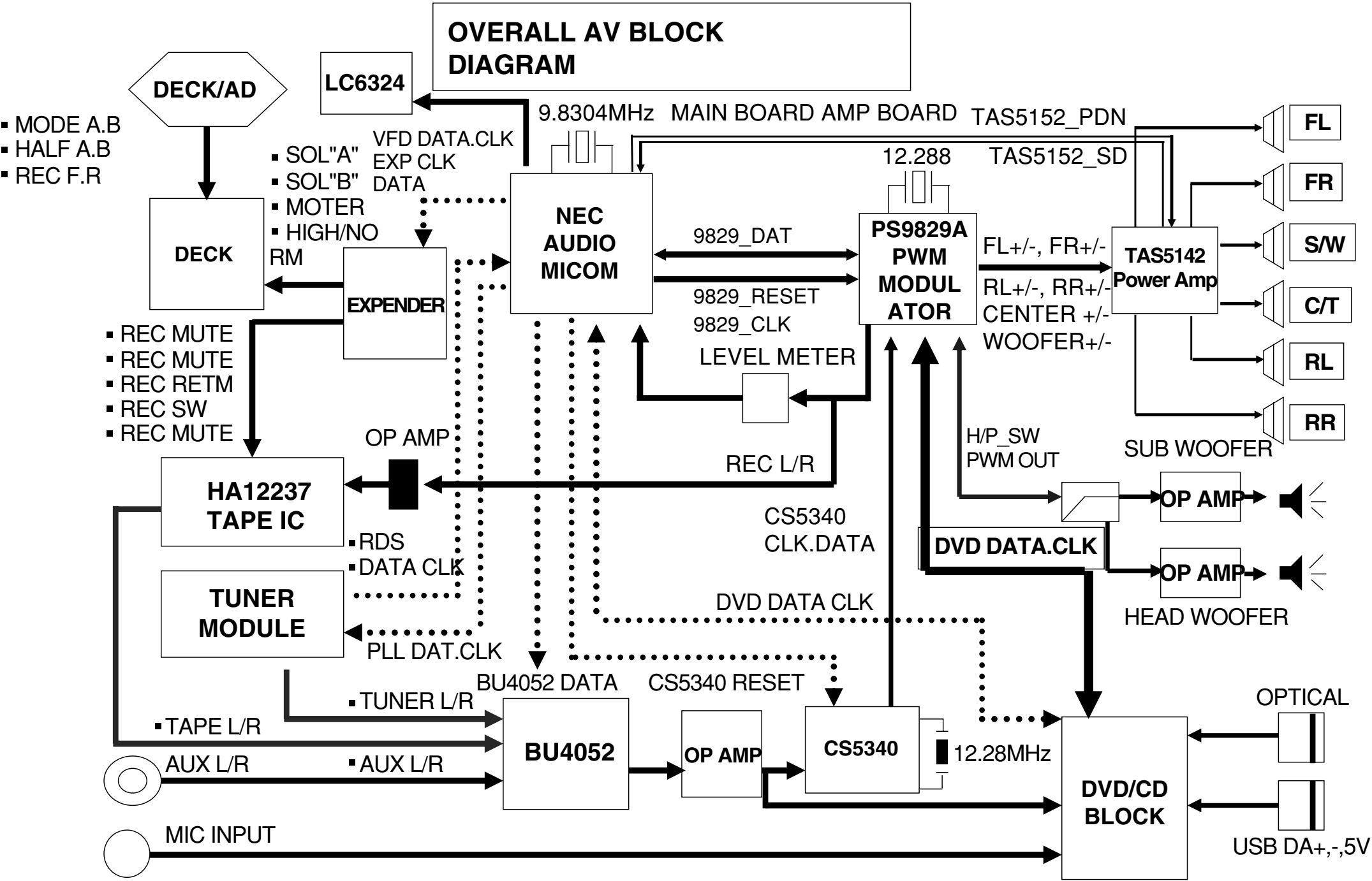
• ES6838  
BLOCK DIAGRAM



# • PT6324 BLOCK DIAGRAM

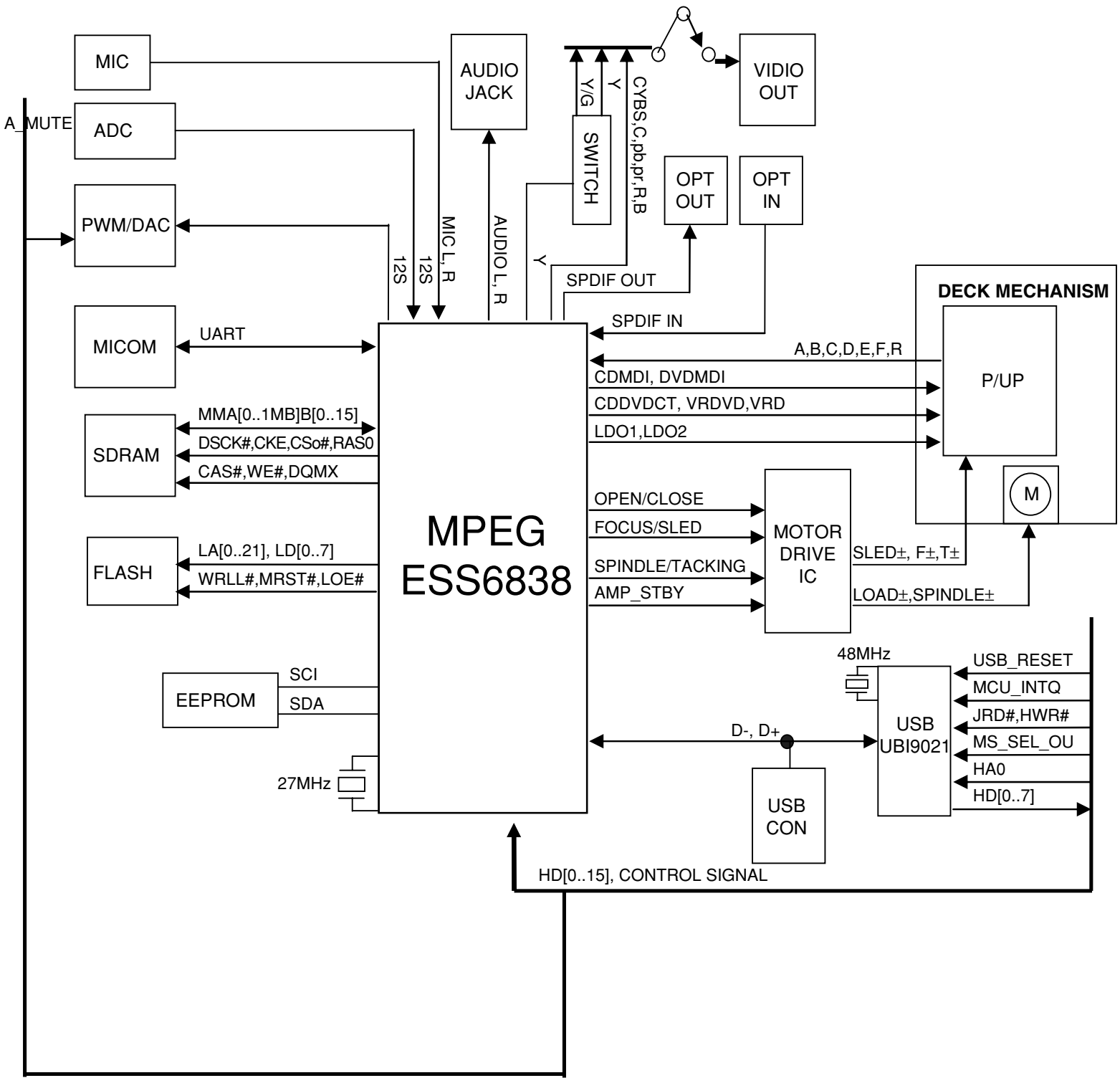


❑ BLOCK DIAGRAM

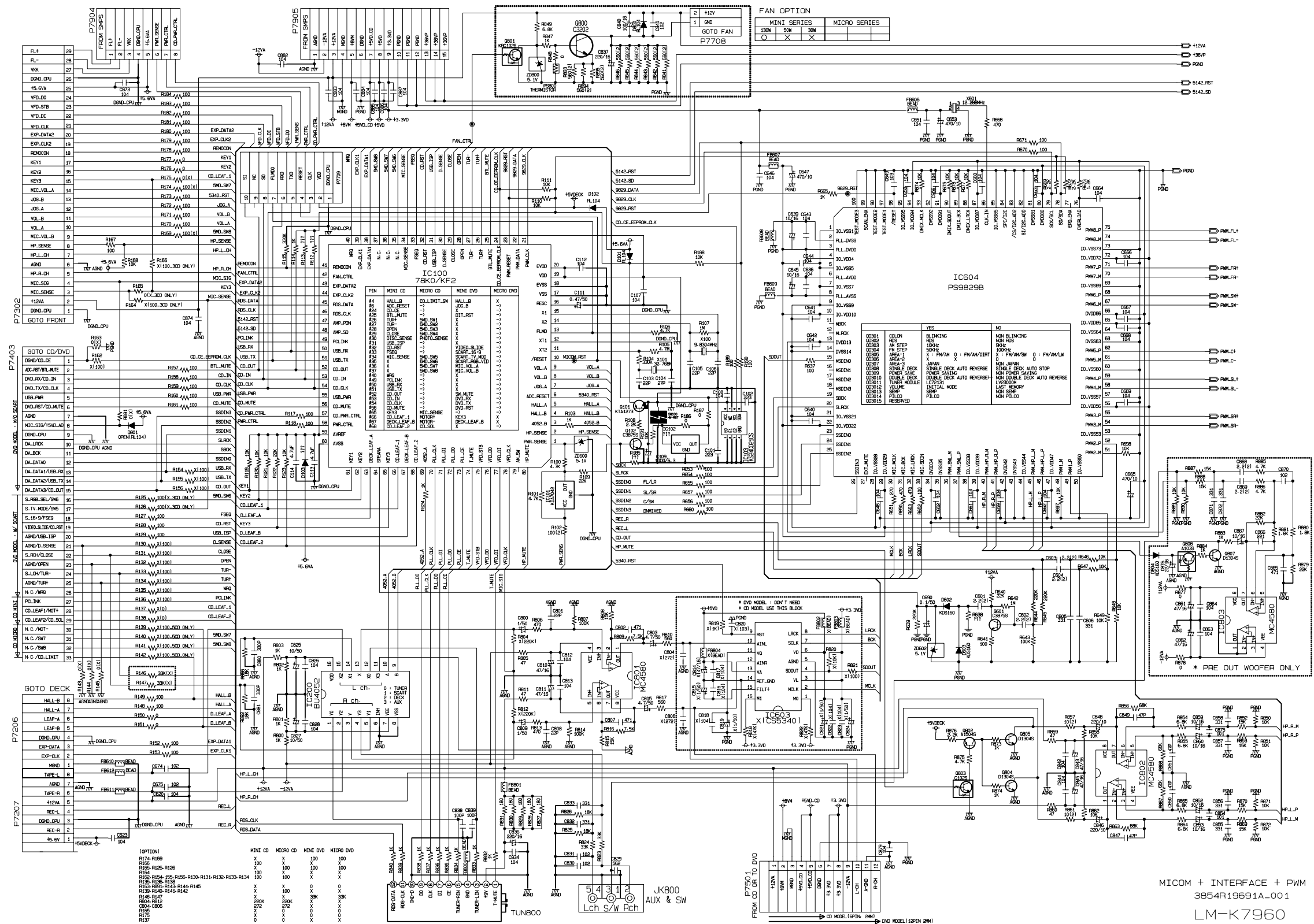


❑ SCHEMATIC DIAGRAMS

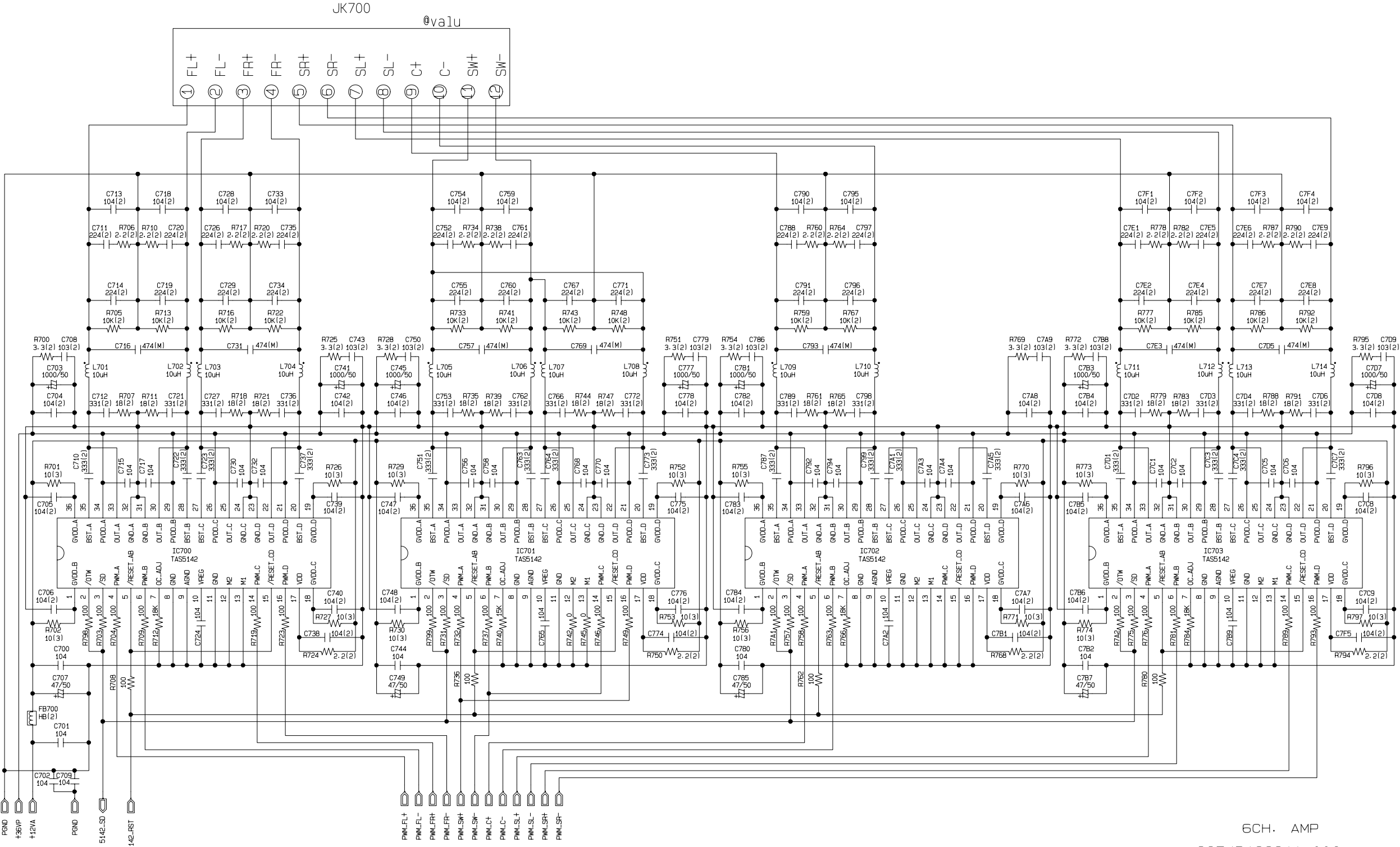
• MAIN SCHEMATIC DIAGRAM



- **MAIN SCHEMATIC DIAGRAM**



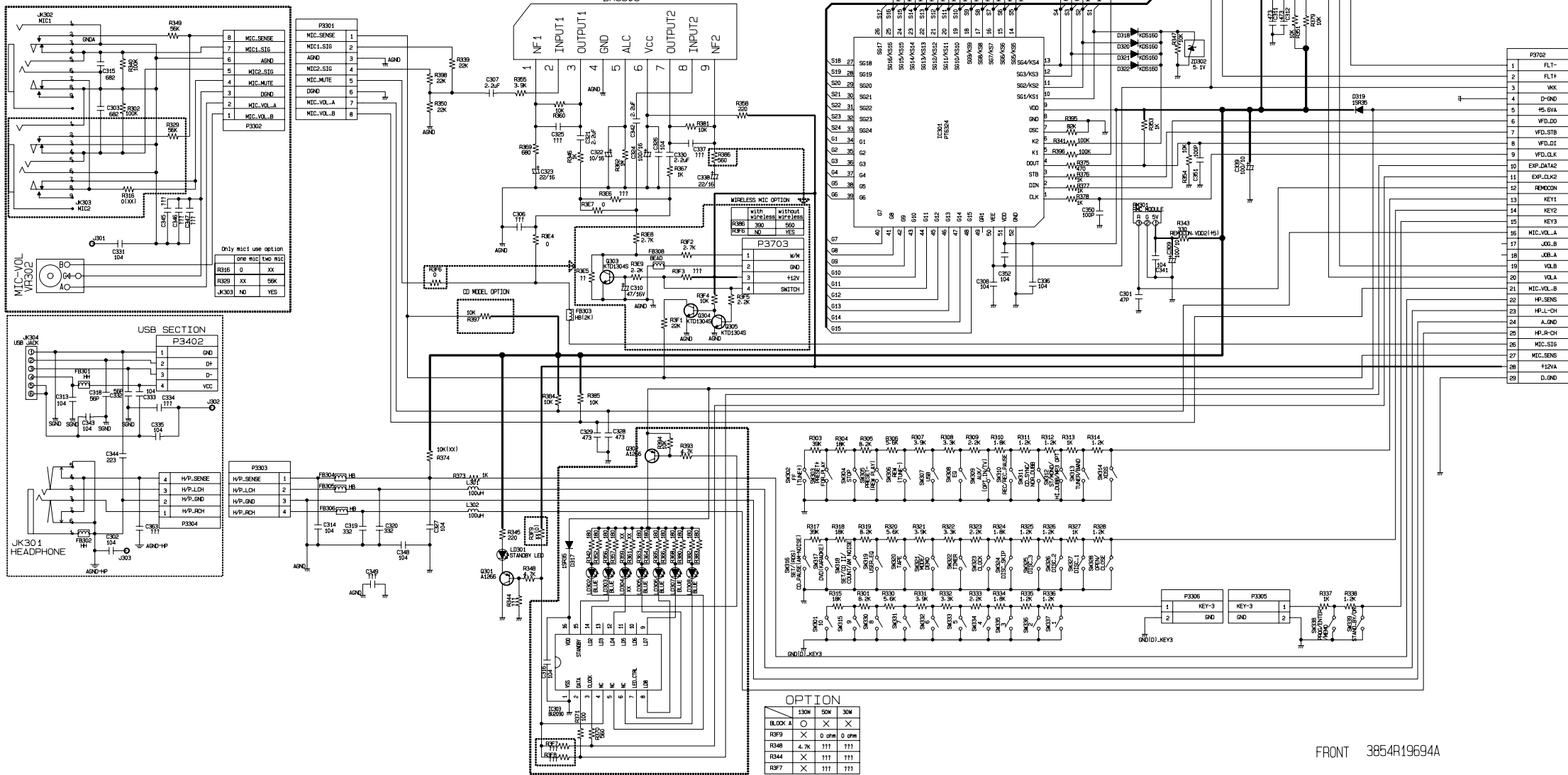
• MAIN AMP SCHEMATIC DIAGRAM



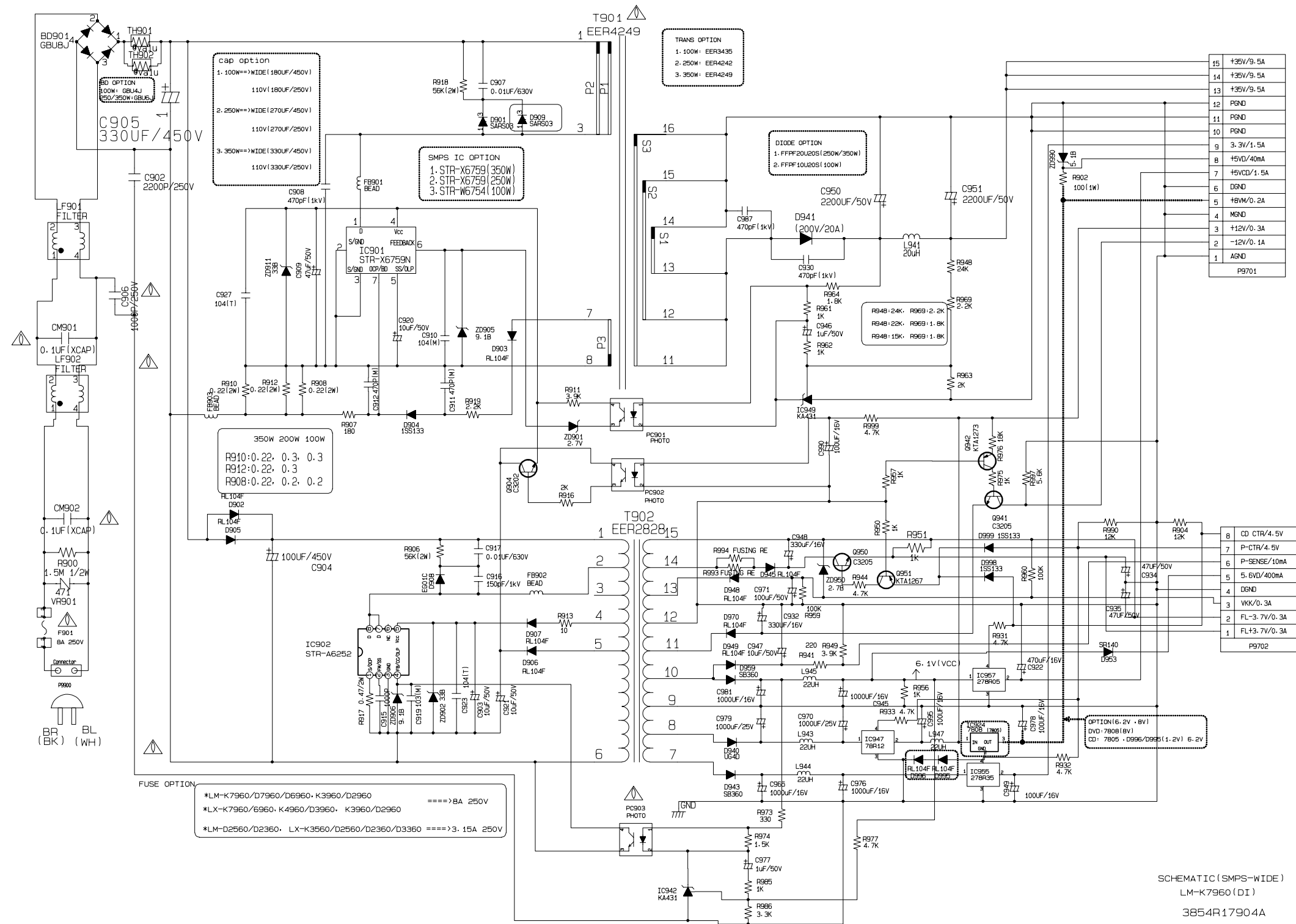
6CH AMP  
3854R19691A\_002  
LM-K7960

• FRONT SCHEMATIC DIAGRAM

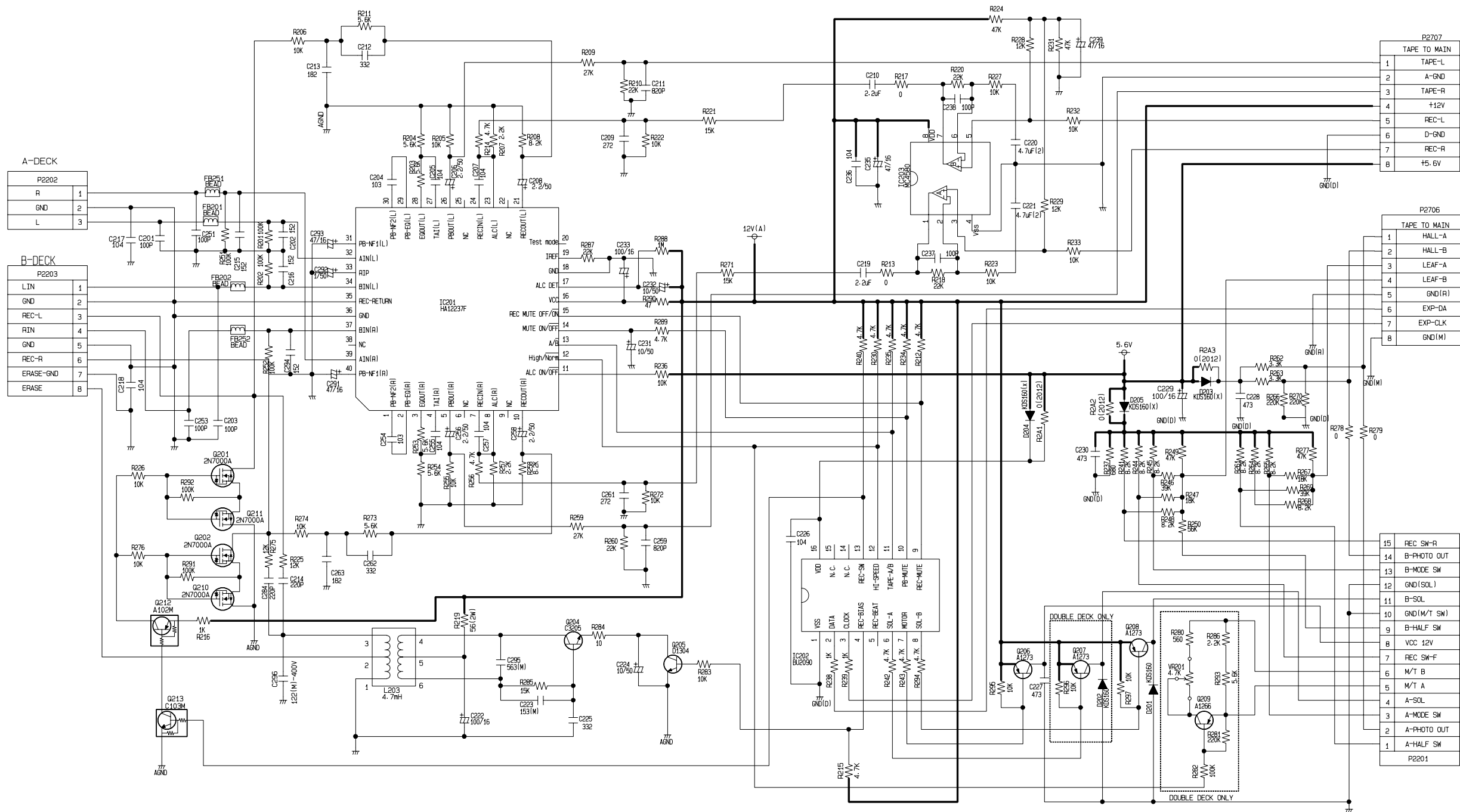
|      |                |   |                    |   |                    |
|------|----------------|---|--------------------|---|--------------------|
| D301 | RDS            | X | NON RDS            | 0 | RDS                |
| D302 | AM STEP        | X | 9KHZ               | 0 | 10KHZ              |
| D303 | FM STEP        | X | 50KHZ              | 0 | 100KHZ             |
| D304 | BAND           | X | AM/FM              | 0 | AM/FM/ORIT         |
| D305 |                | X | AM/FM/BN           | 0 | AM/FM/LW           |
| D306 | JAPAN          | X | NON JAPAN          | 0 | JAPAN              |
| D307 | TUNER          | X | 2 CHIP(K1)+LC72131 | 0 | 1 CHIP(T1)+LV2300M |
| D308 | SCART          | X | WITHOUT SCART      | 0 | WITH SCART         |
| D309 | USB            | X | WITHOUT USB        | 0 | WITH USB           |
| D310 | OPTICAL-IN     | X | WITHOUT OPTICAL-IN | 0 | WITH OPTICAL-IN    |
| D311 | OUTPUT         | X | 30W                | 0 | 60W                |
| D312 |                | X |                    | 0 | 130W               |
| D313 | CONFIG         | X | 2CH                | 0 | 1CH                |
| D314 |                | X |                    | 0 | 5CH                |
| D315 | DECK OPTION    | X | A/S+H/R            | 0 | A/S+H/S            |
| D316 |                | X |                    | 0 |                    |
| D318 | VOLUME INITIAL | X | LAST MEMORY        | 0 | VOLUME INITIAL     |
| D320 | BUYER OPTION   | X | LG                 | 0 | SEMP               |
| D321 |                | X |                    | 0 | PHILCO             |
| D322 | MARGIN         | X |                    | 0 |                    |



- **SMPS SCHEMATIC DIAGRAM**



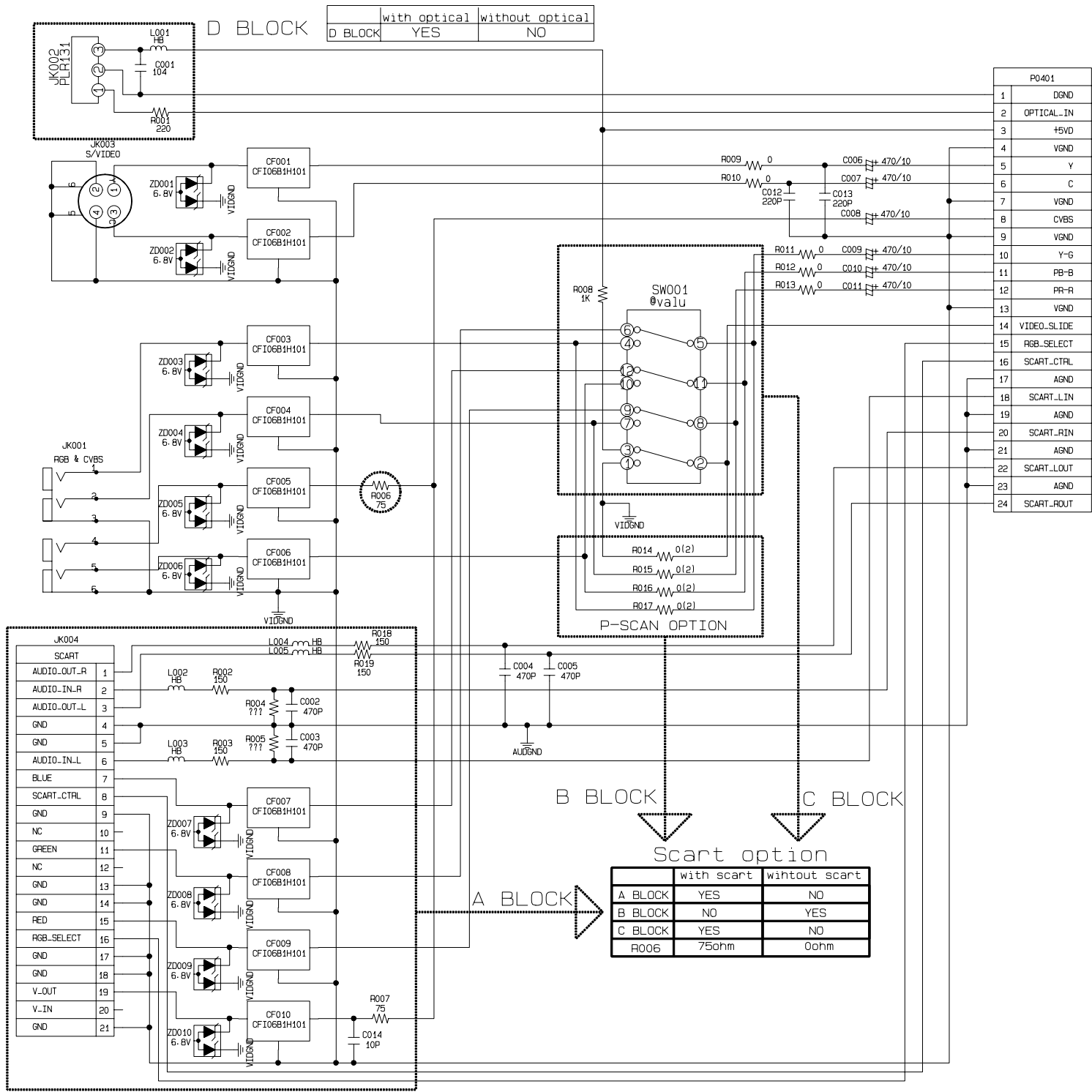
• DECK SCHEMATIC DIAGRAM



| LOCATION NUMBER | AUTOSTOP | AUTO REVERSE |
|-----------------|----------|--------------|
| R225, R275      | 47K      | 12K          |
| C220            | 182 (M)  | 122 (M)      |
| C234            | 682 (M)  | 562 (M)      |
| C296            | 222 (M)  | 122 (M)      |

DECK  
2006.01.06  
3854R19693A

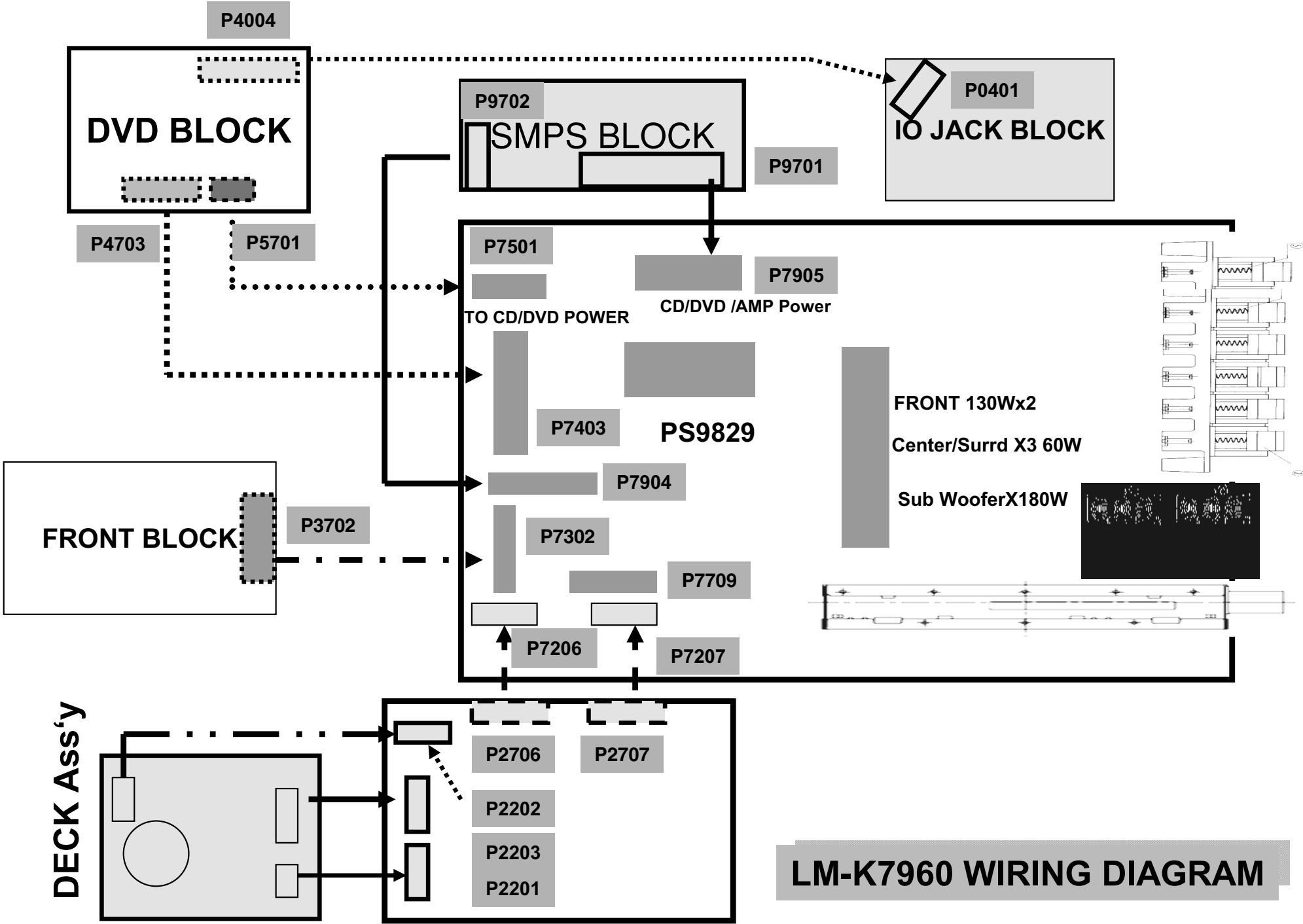
• JACK & IO SCHEMATIC DIAGRAM



JACK & I/O

3854R18697A

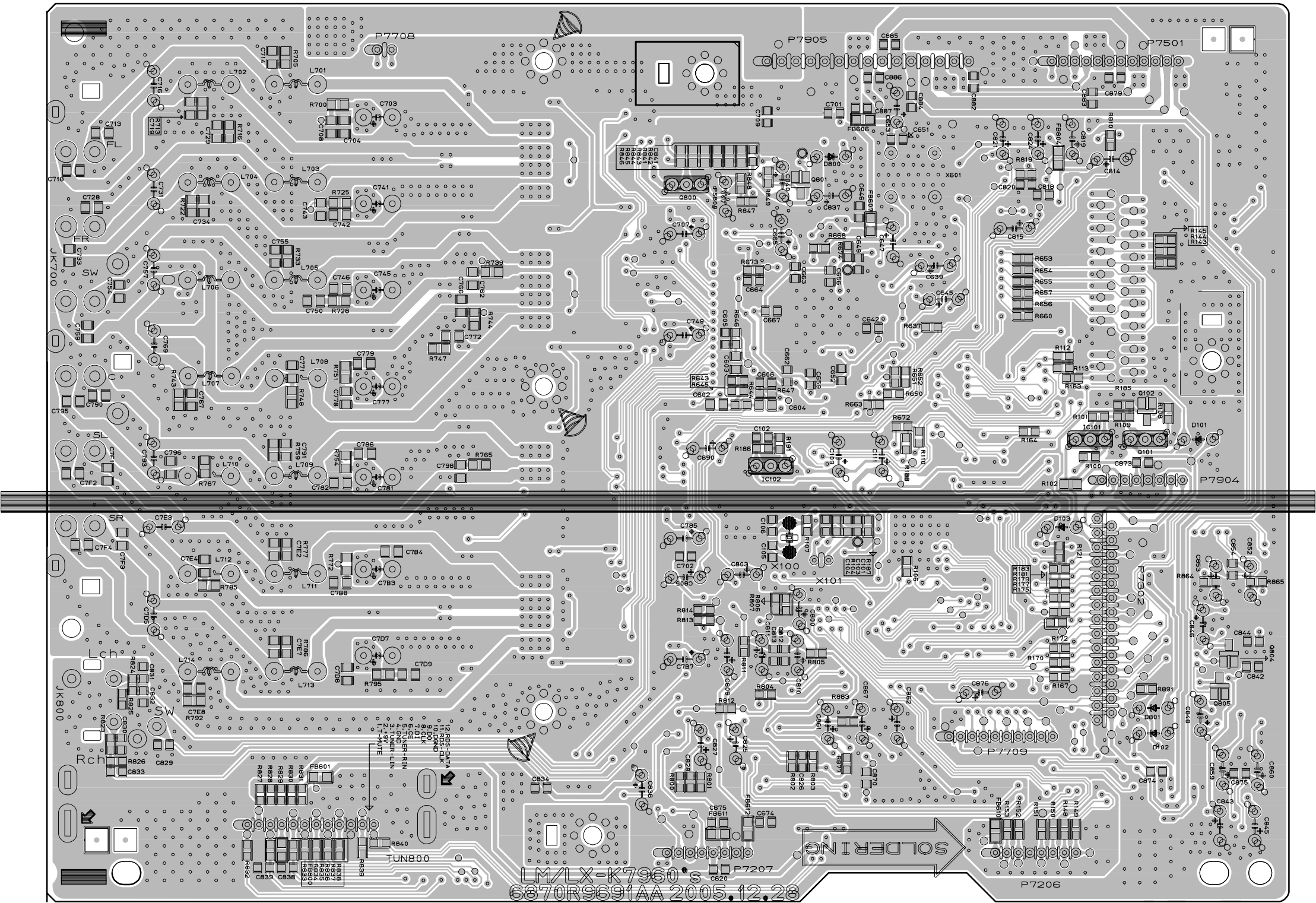
❑ WIRING DIAGRAM



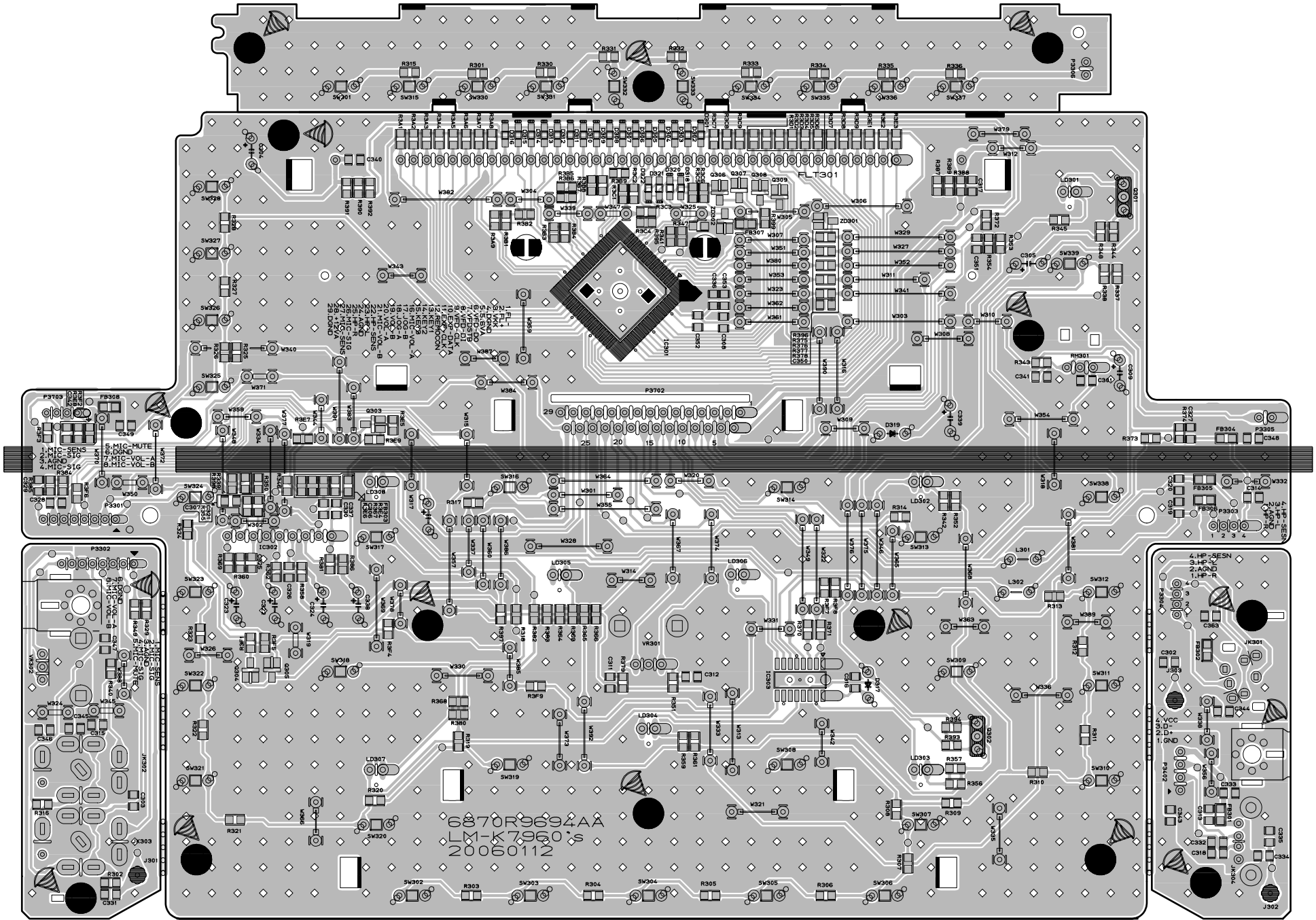
- **MAIN P.C. BOARD**



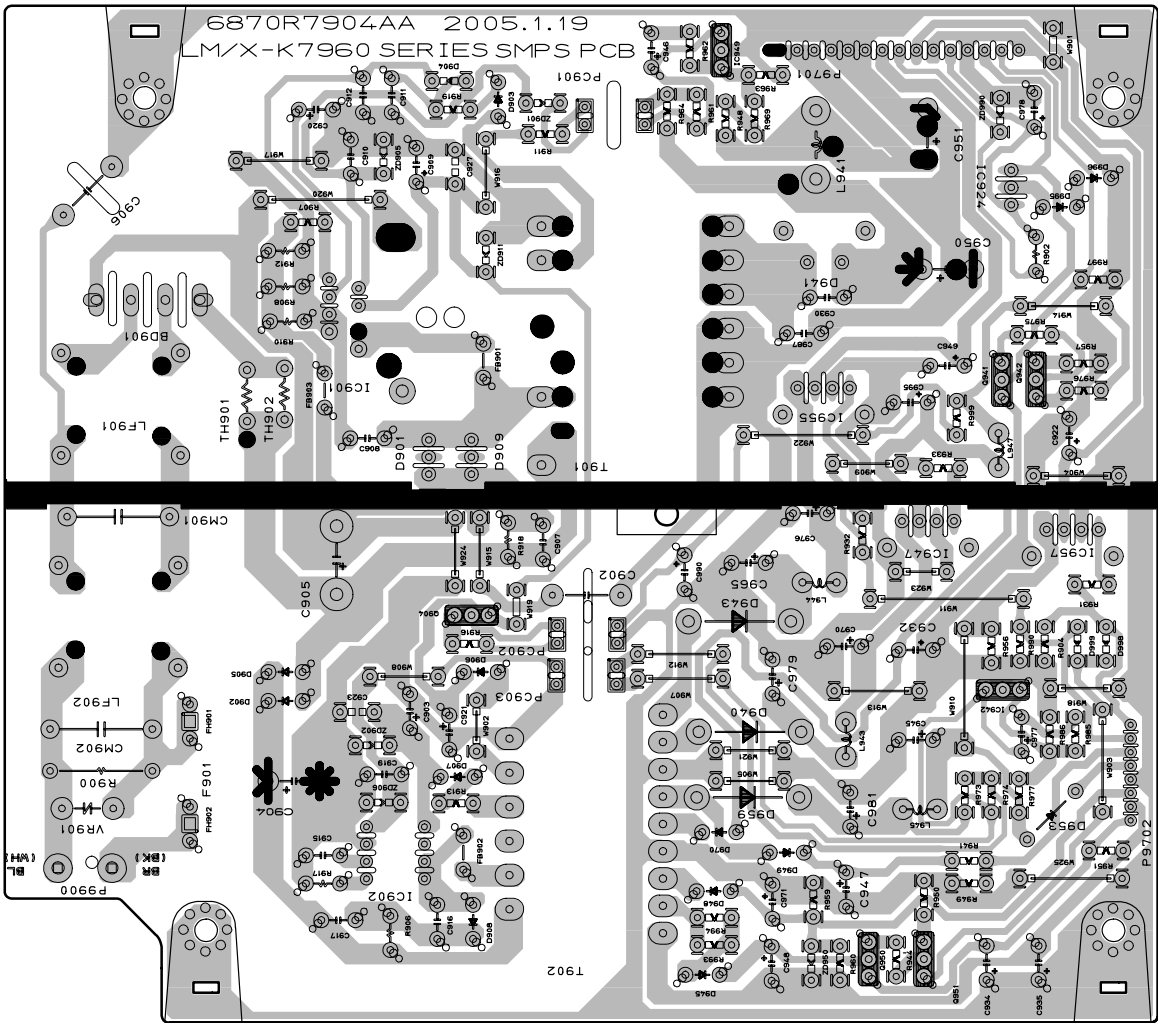
• MAIN P.C. BOARD



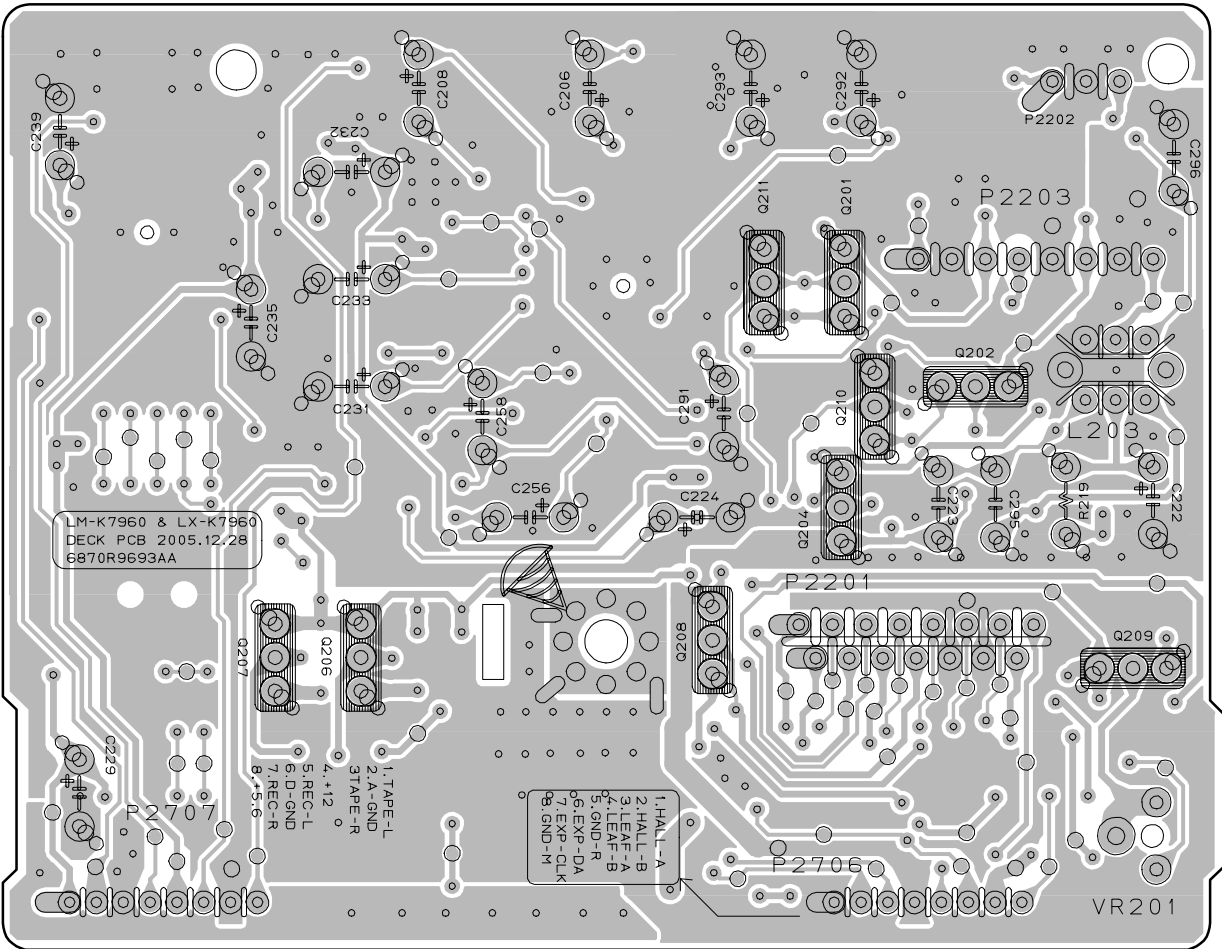
• FRONT P.C. BOARD



• SMPS P.C. BOARD



• DECK P.C. BOARD



MEMO

Lined area for writing on the left page.

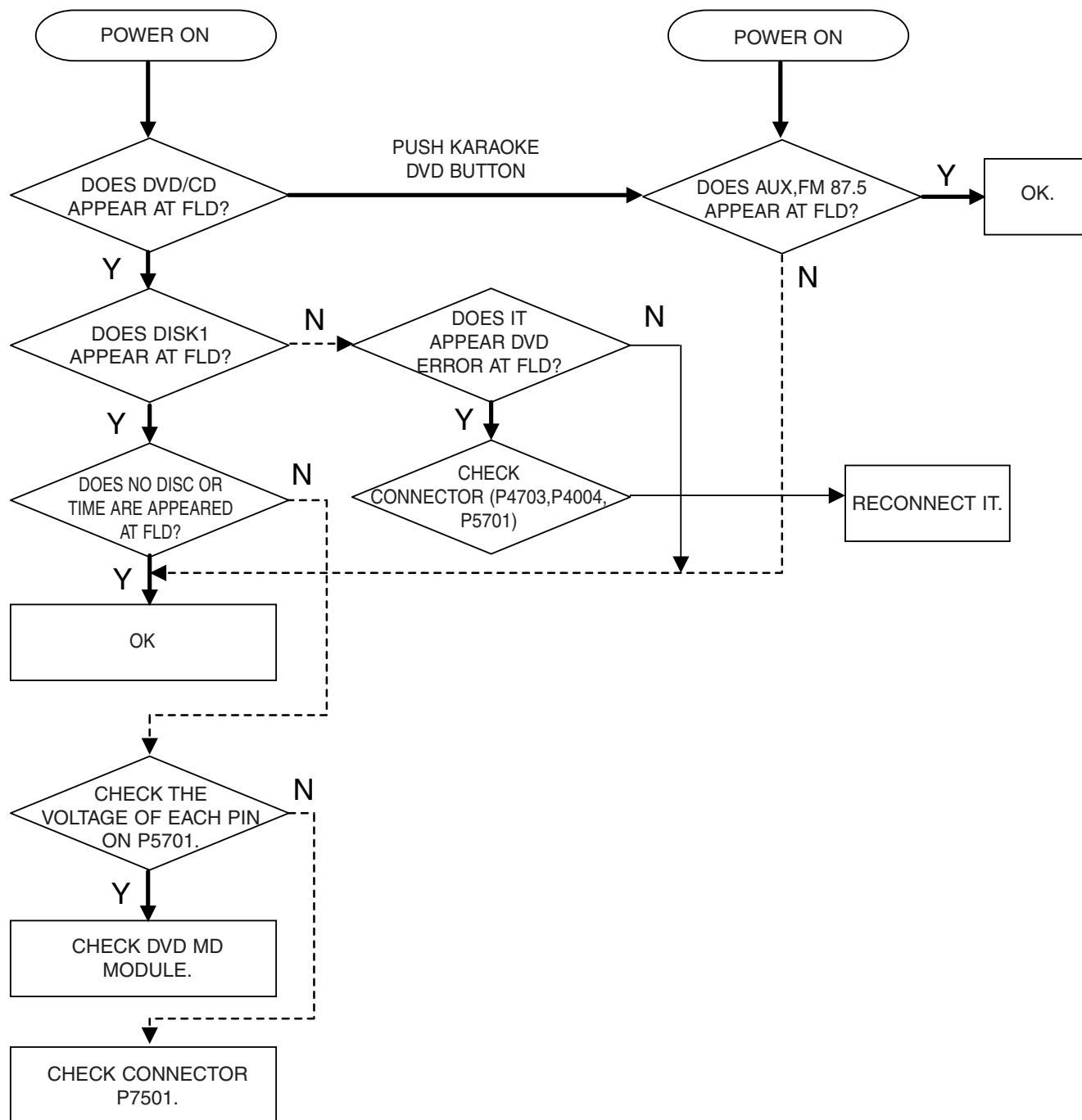
MEMO

Lined area for writing on the right page.

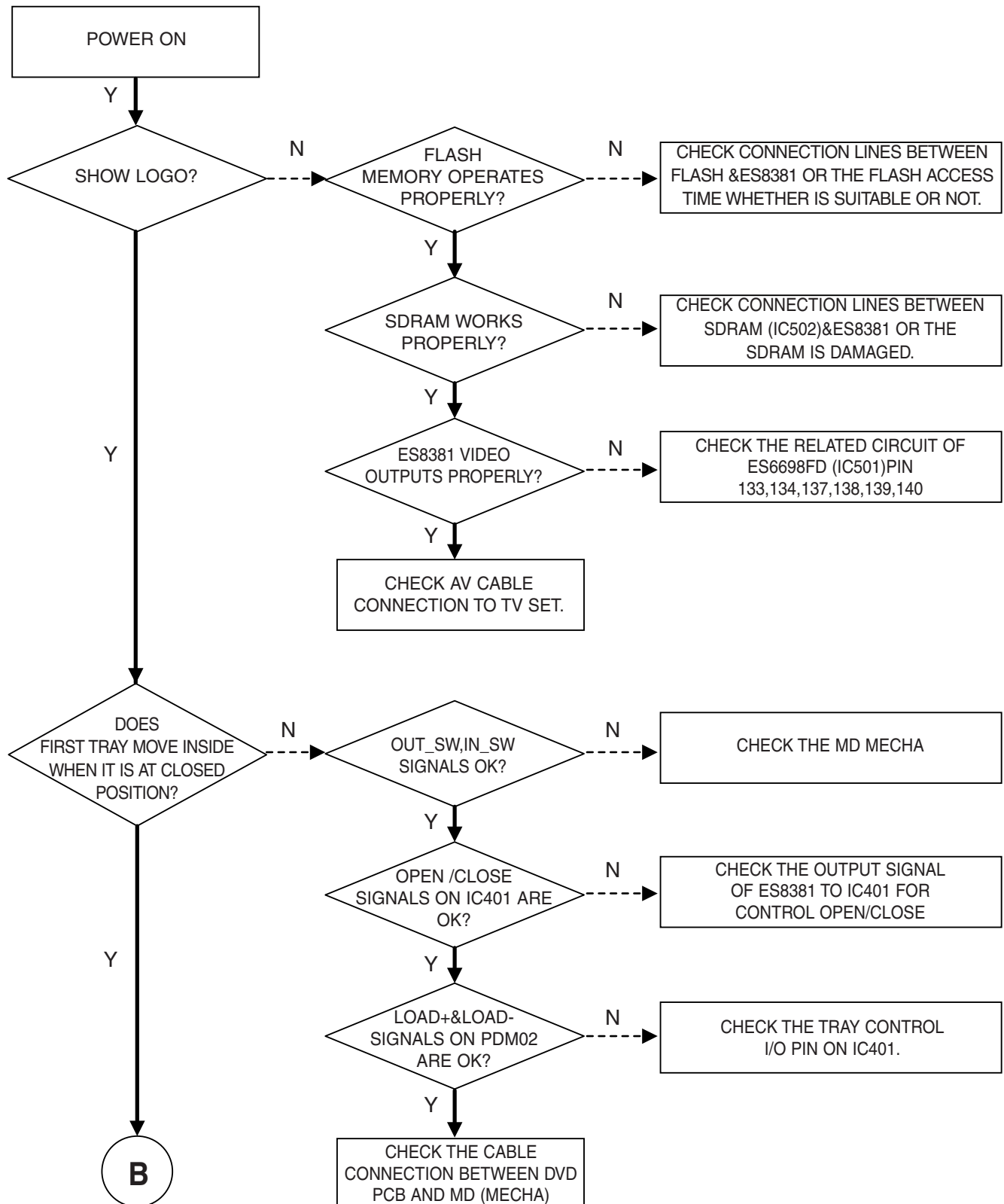
## SECTION 3. DVD PART ELECTRICAL

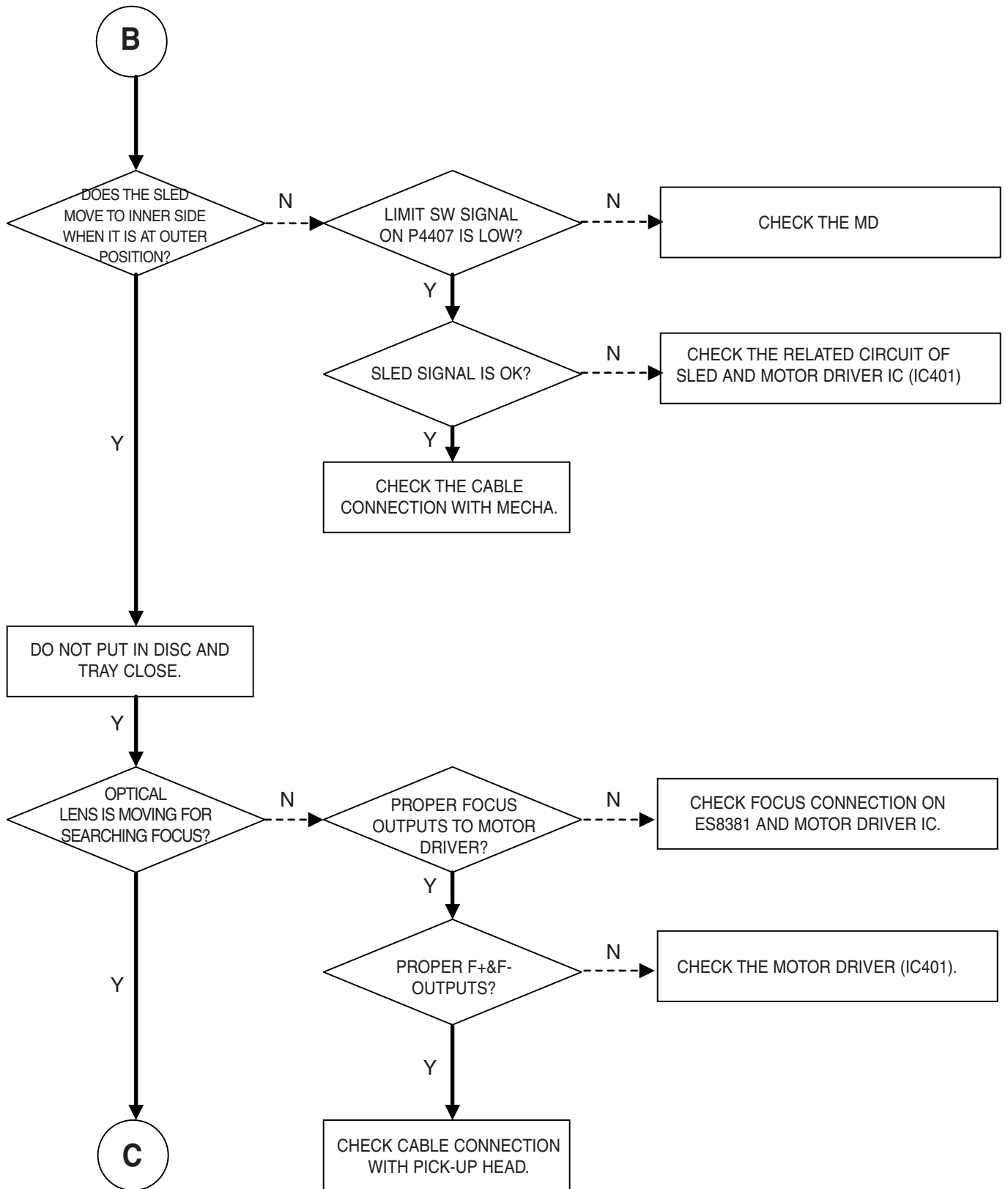
### □ DVD ELECTRICAL TROUBLESHOOTING GUIDE

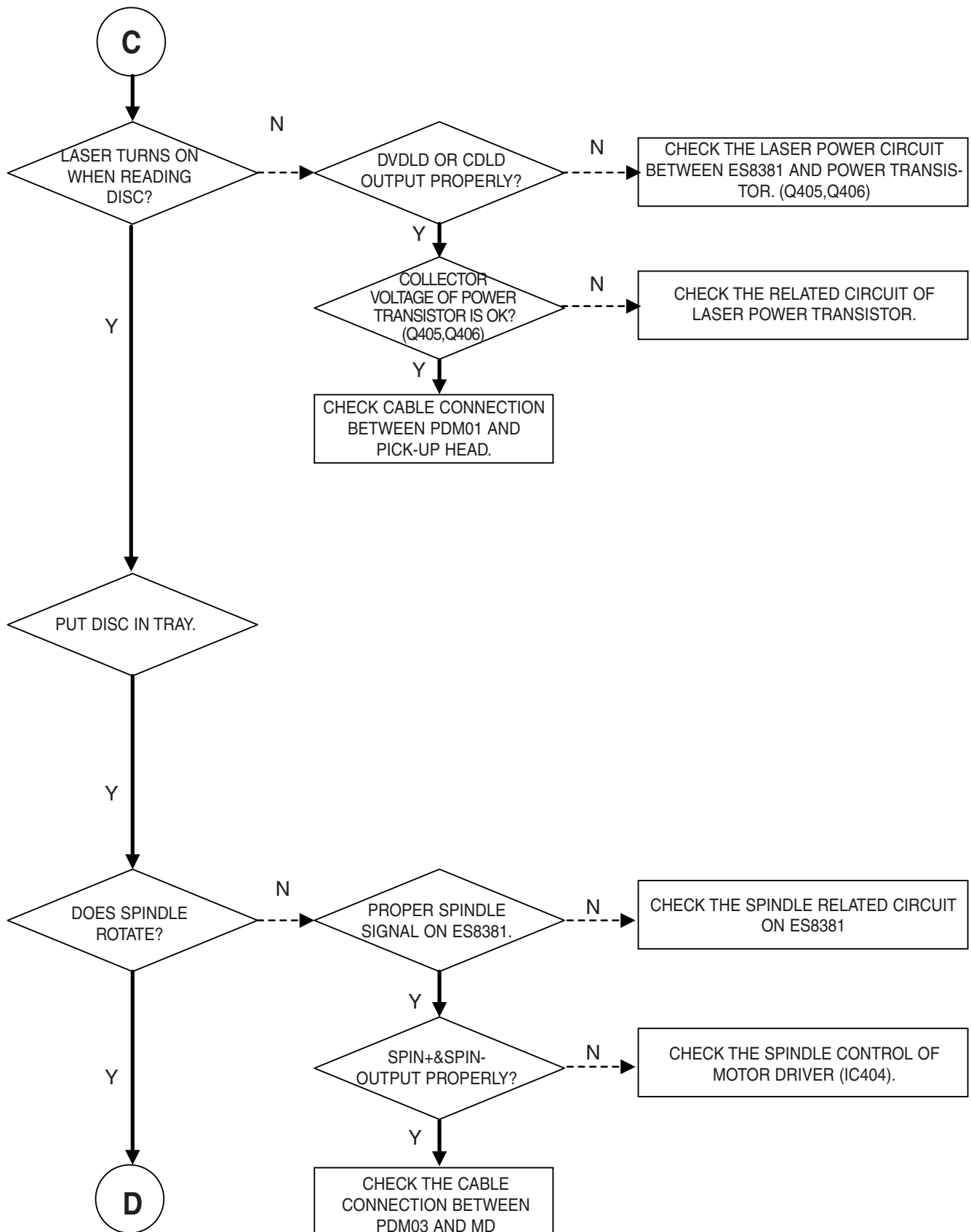
#### ■ POWER CHECK GUIDE

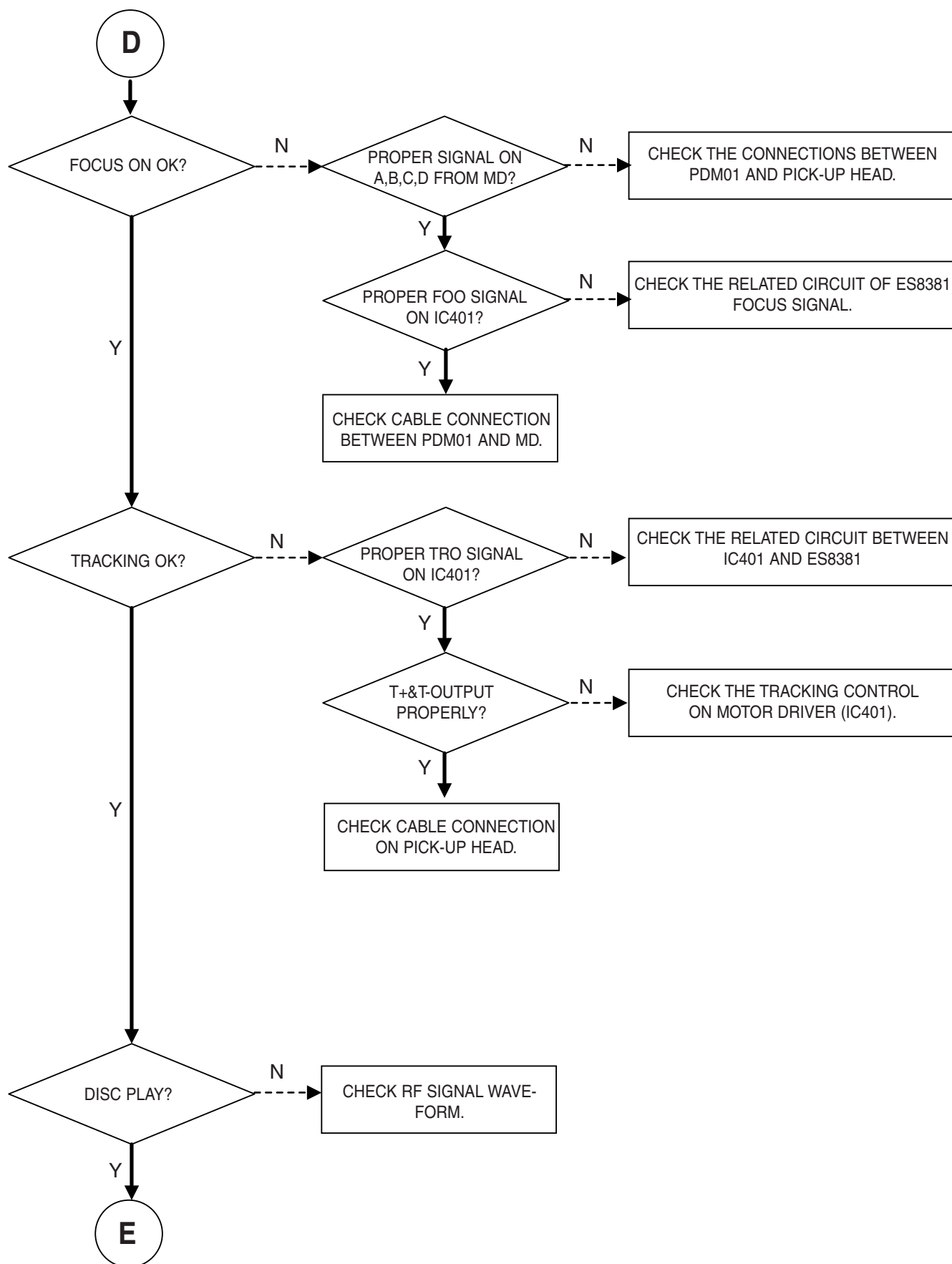


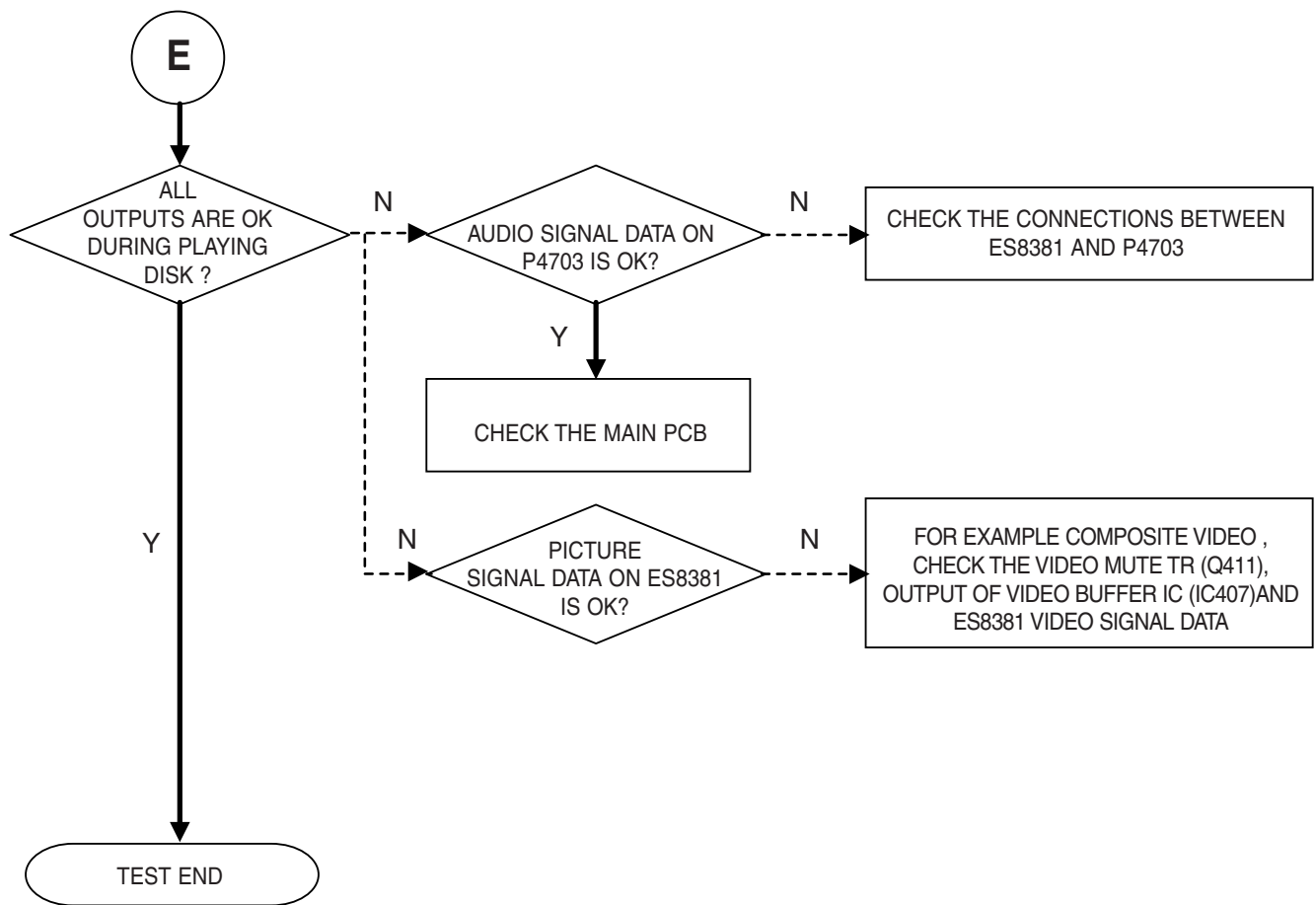
## ■ TEST & DEBUG FLOW



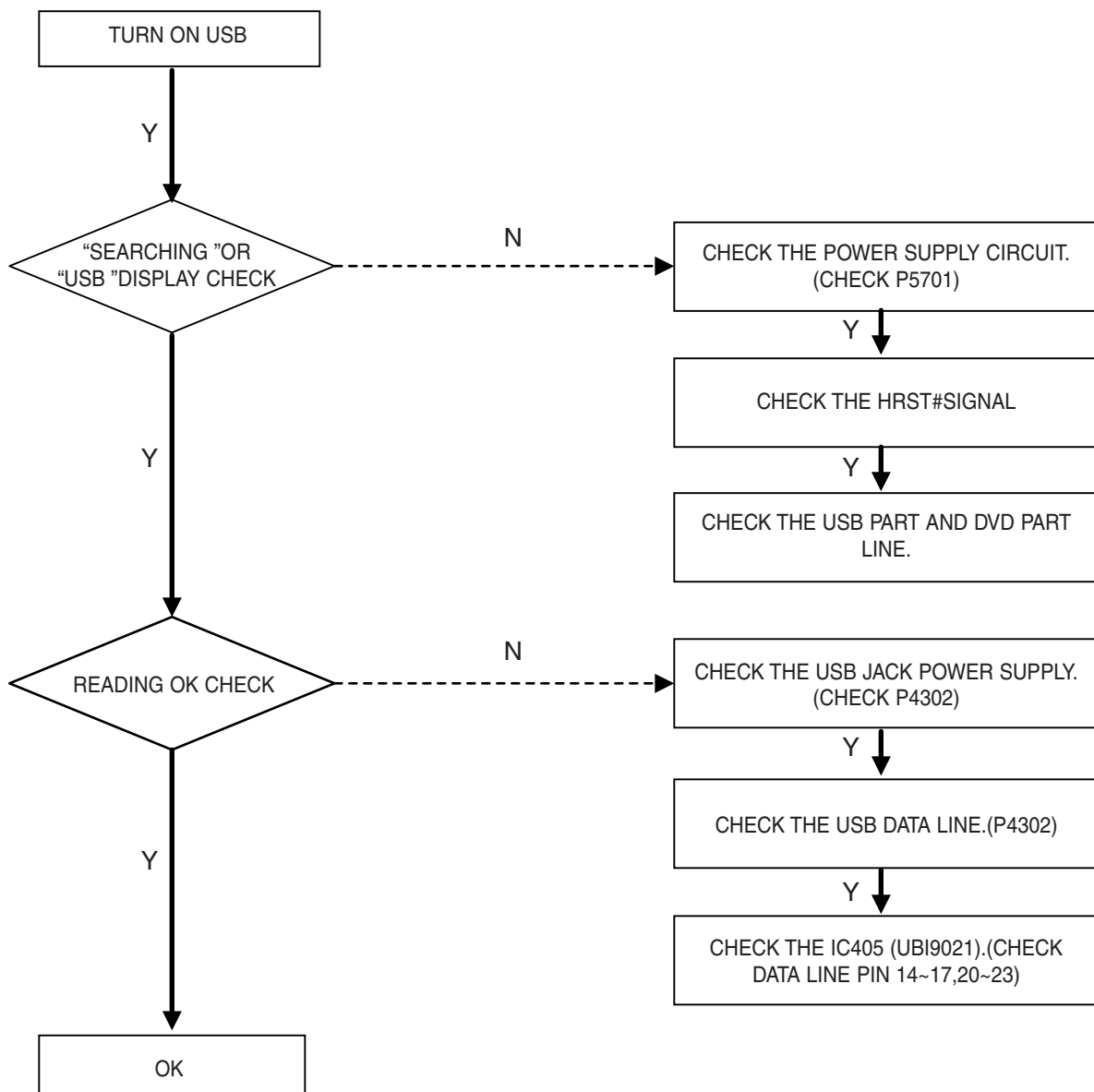






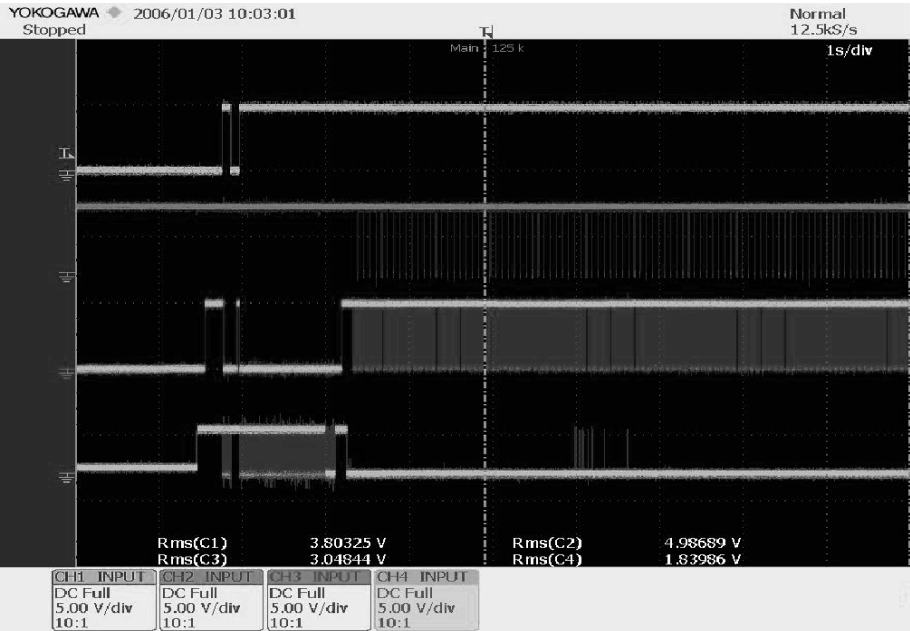


## ■ USB PART

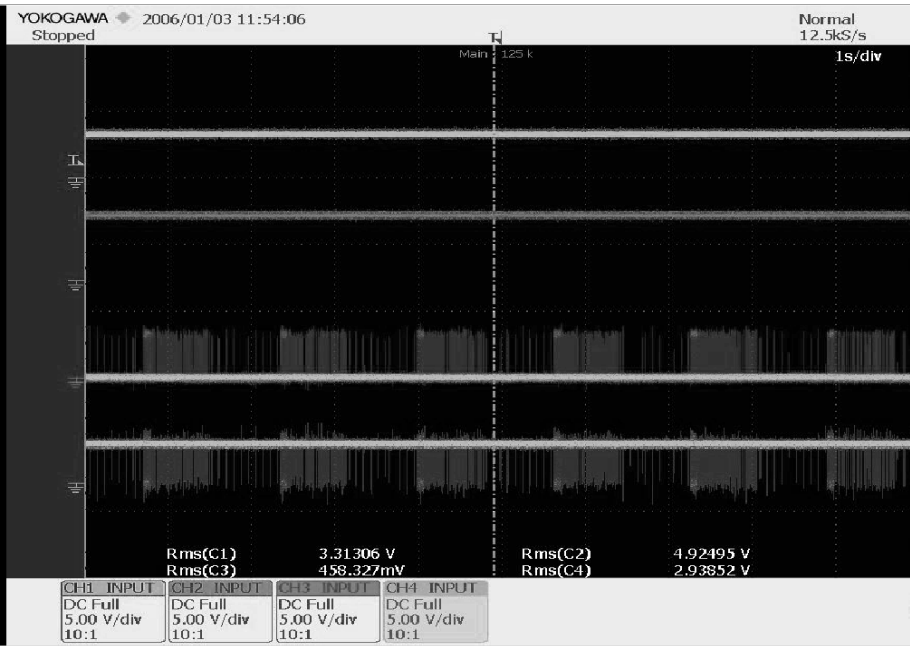


# ■ WAVEFORM

## WHEN POWER ON,RESET &DATA ETC WAVEFORM

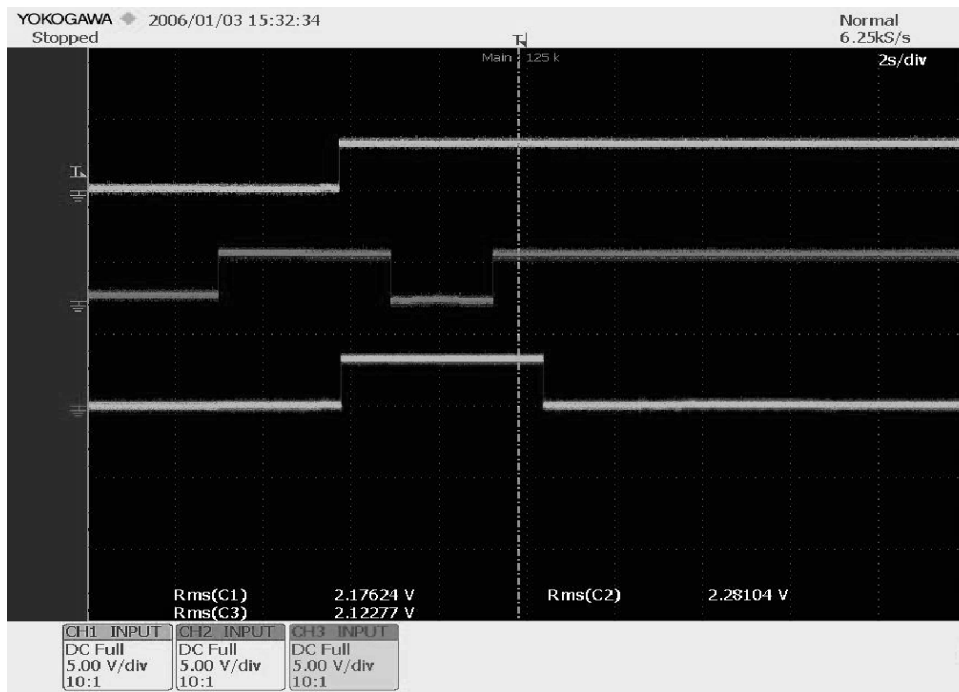


- 1.RESET(DVD)
- 2.RX
- 3.TX
- 4.LCS3#(FLASH)



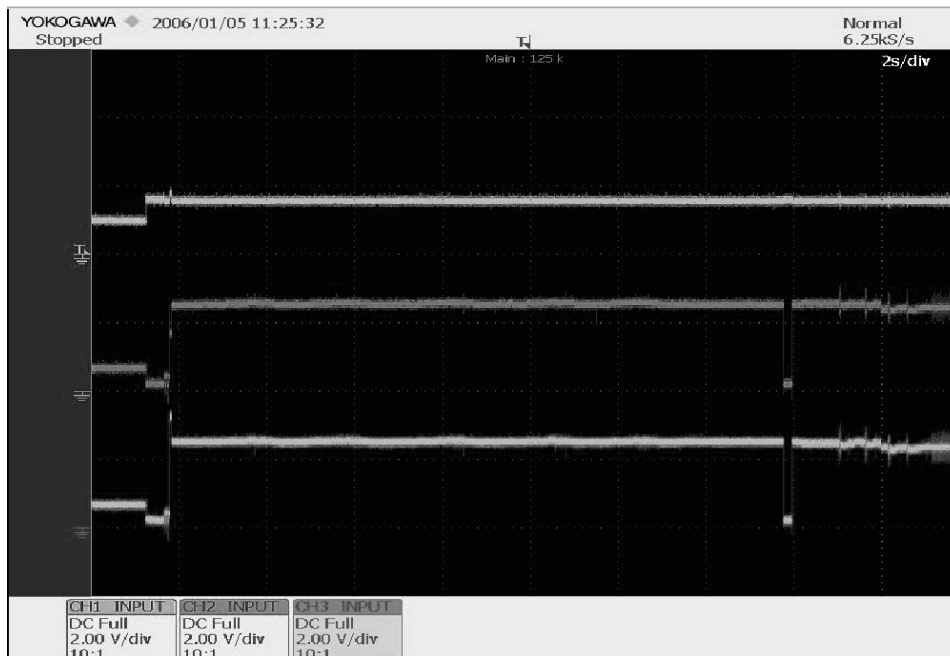
- Playing at USB function
- 1.HRST#
  - 2.5V
  - 3.D-
  - 4.D+

## OPEN/CLOSE WAVEFORM AT POWER ON



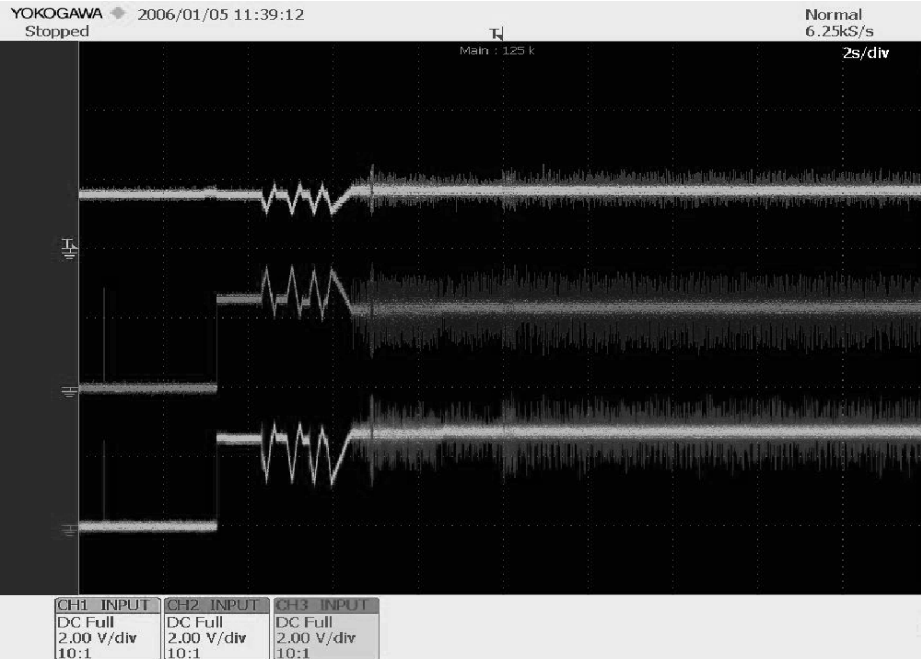
- 1.Limit SW
- 2.OPEN
- 3.CLOSE

## STARTING ACTION WAVEFORM IN MD DEVICE



- 1.SLO (from MPEG)
  - 2.SLED-
  - 3.SLED+
- (At Power on )

FOCUS WAVEFORM (AT CD)



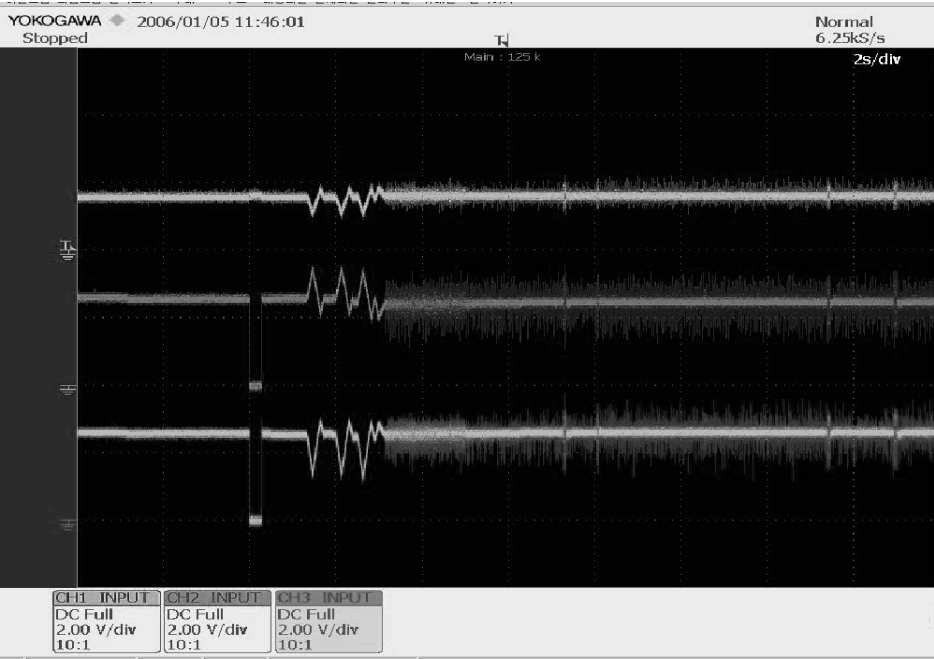
1.FDO

2.F+

3.F-

(INSERT CD )

FOCUS WAVEFORM (AT DVD)



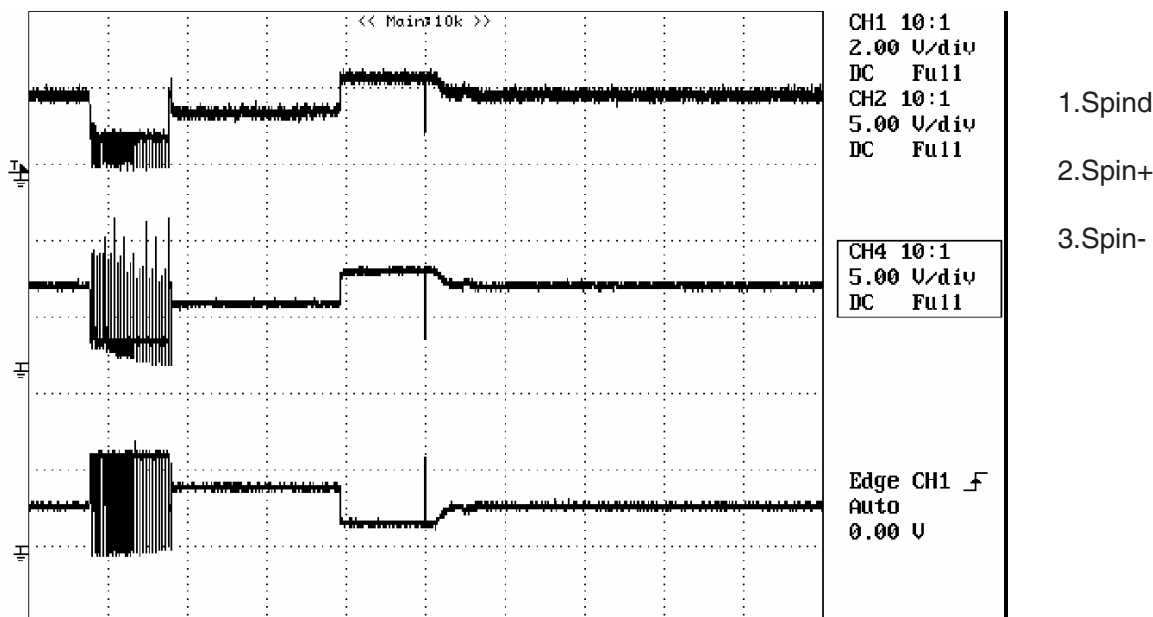
(INSERT DVD )

1.FDO

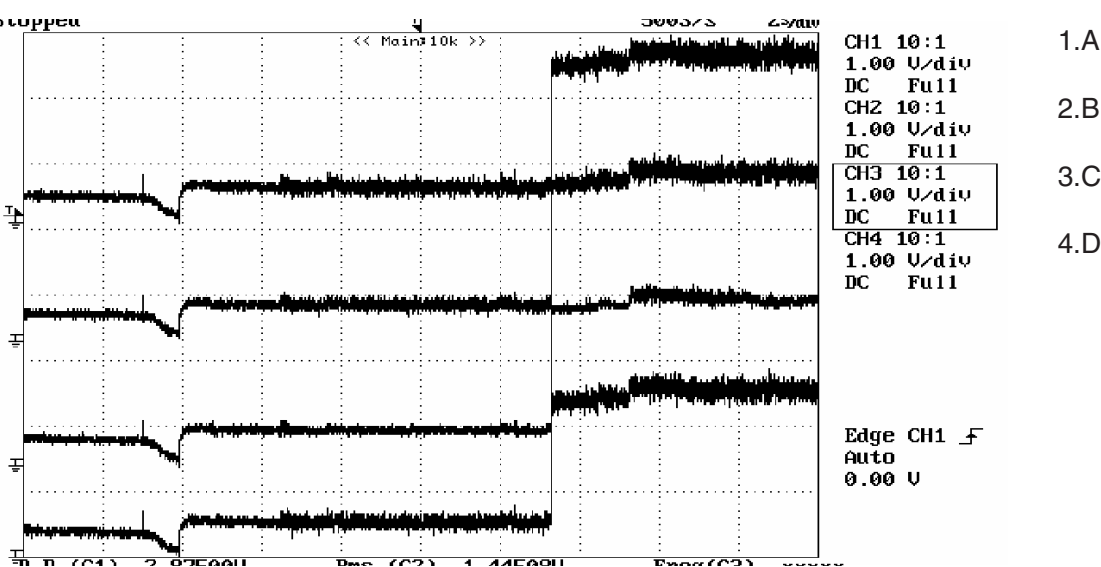
2.F+

3.F-

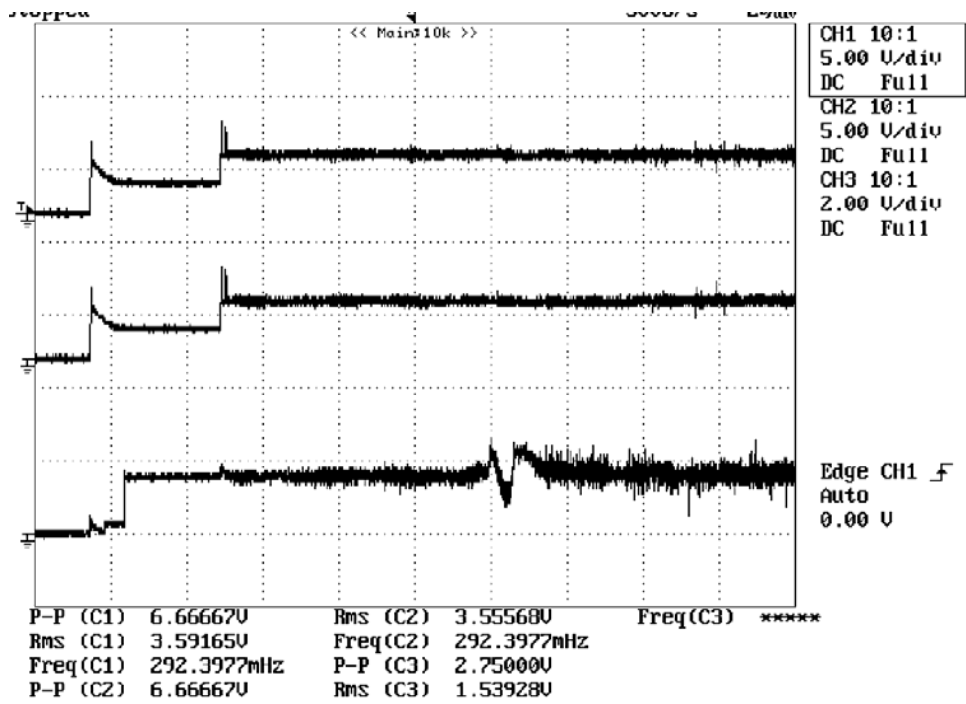
AT POWER ON ,SPINDLE SIGNAL AT MD DECK



AT FIRST ACTION, FOCUS SIGNAL A,B,C,D

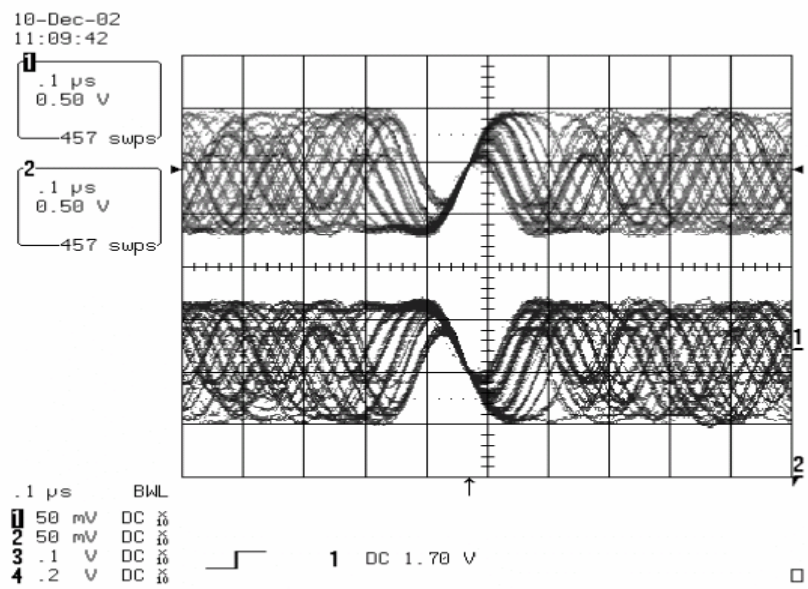


TRACKING SIGNAL

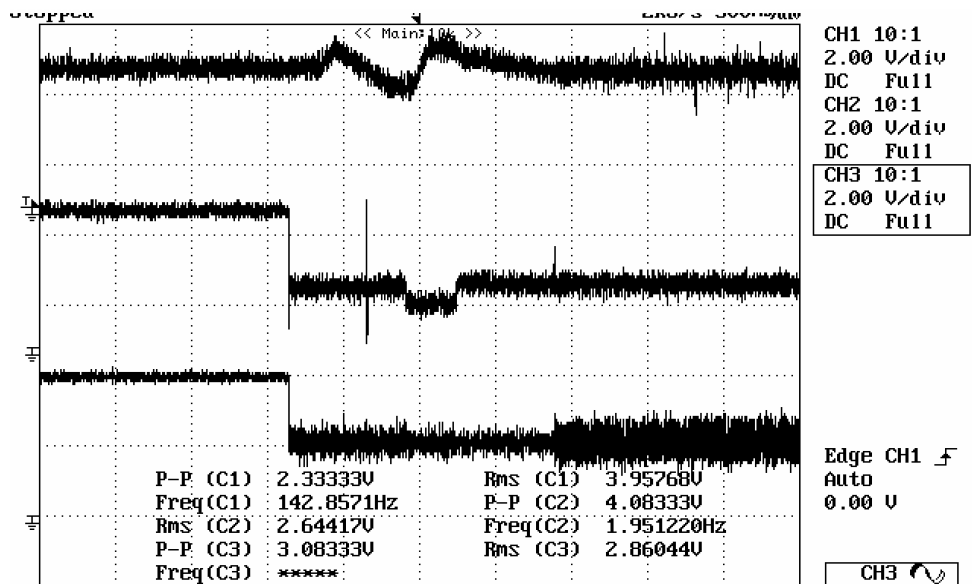


- 1.Tr0
- 2.Tr-
- 3.Tr+

RF WAVEFORM



## DISK TYPE JUGEMENT WAVEFORM

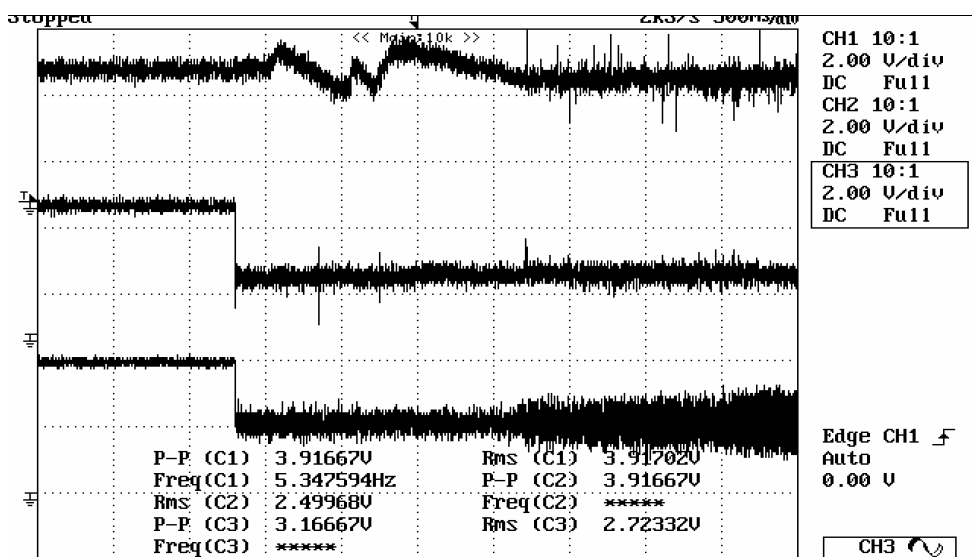


(DVD)

1.F+

2.FDO

3.SVRRF

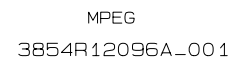


(CD)

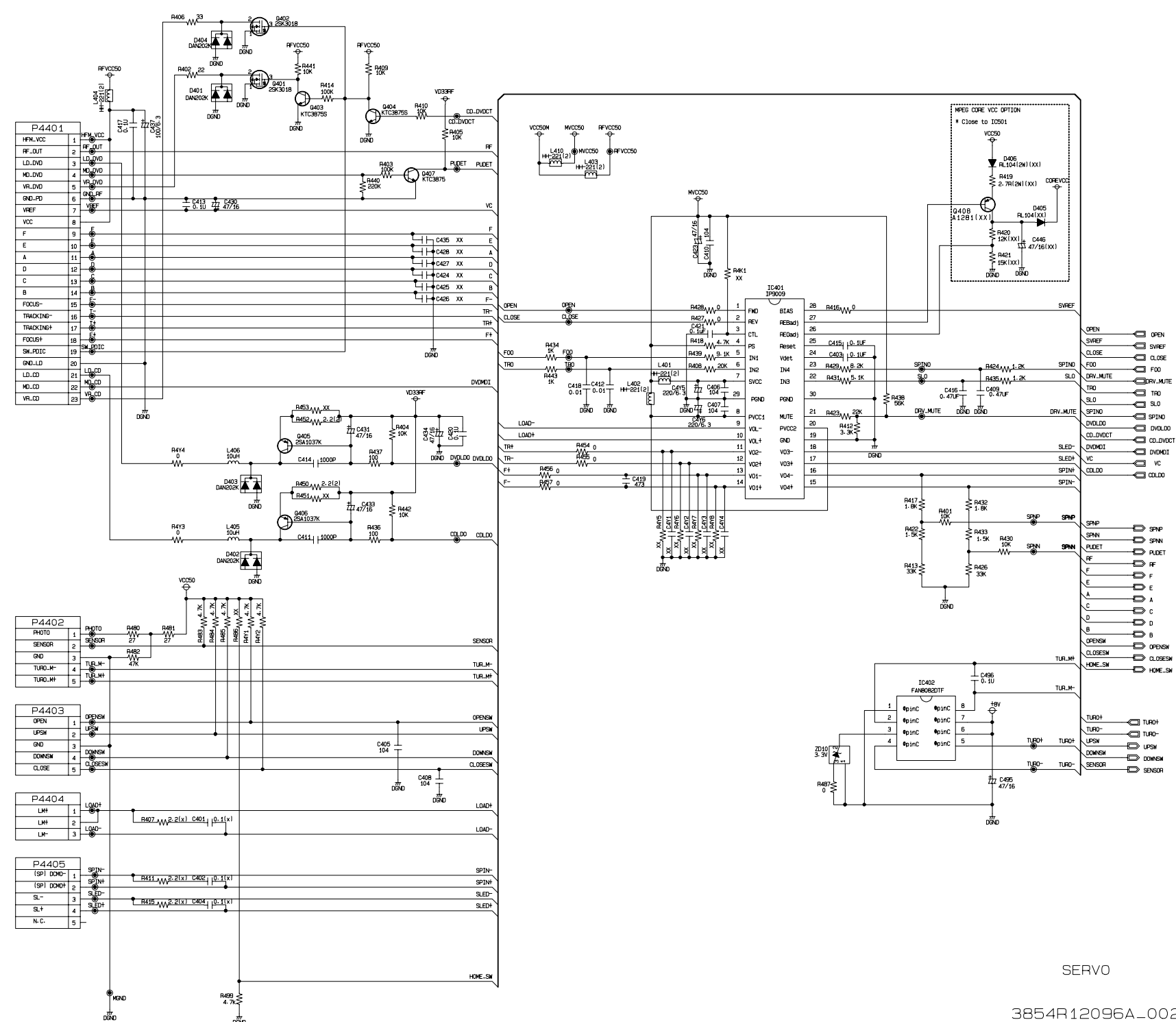
# MEMO

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- **MPEG SCHEMATIC DIAGRAM**



• RF & SERVO SCHEMATIC DIAGRAM



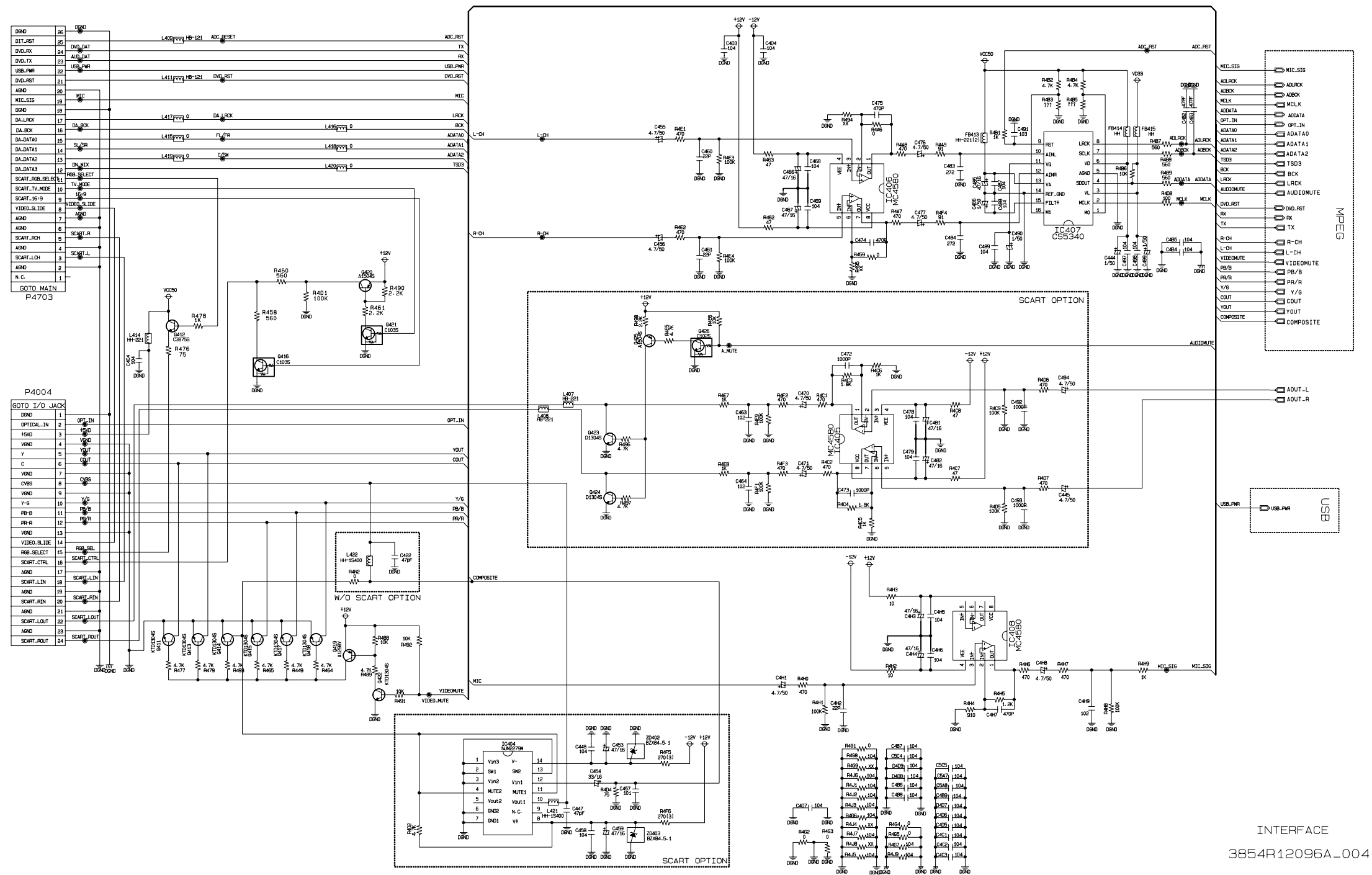
SERVO

3854R12096A\_002

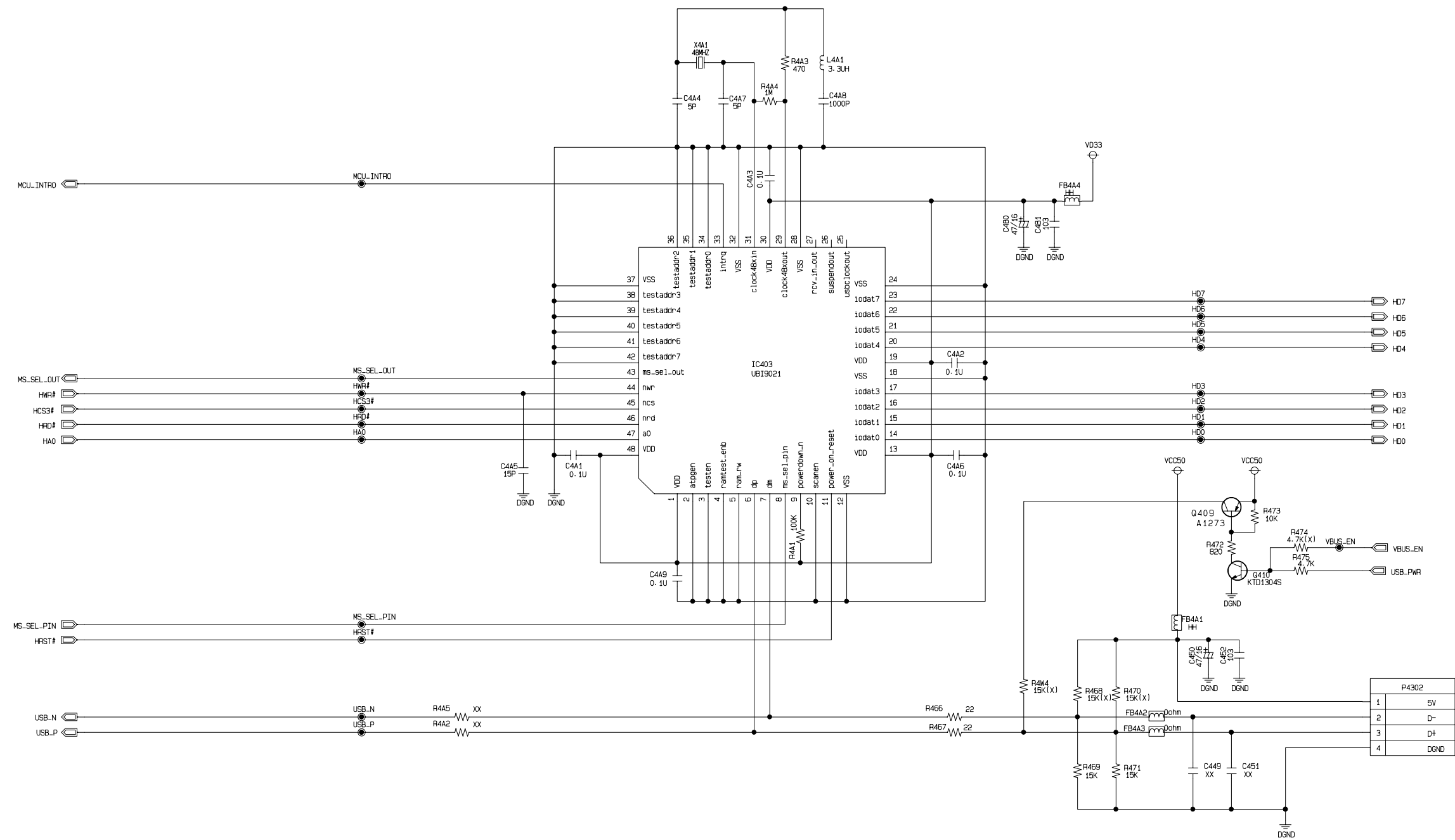
8

1. TP MUST INSERT UPPER ROD (FOR EASY MEASUREMENT)  
2. PVC MEAN SERVO SIGNAL ( FOCUS ERROR/ TRACKING ERROR...) REFERENCE VOLTAGE  
3. IF MPES PART USE 1:2 REGULATOR FOR MPES CORE VCC - MPES CORE VCC OPTION DELETE.

- **INTERFACE SCHEMATIC DIAGRAM**



• USB SCHEMATIC DIAGRAM

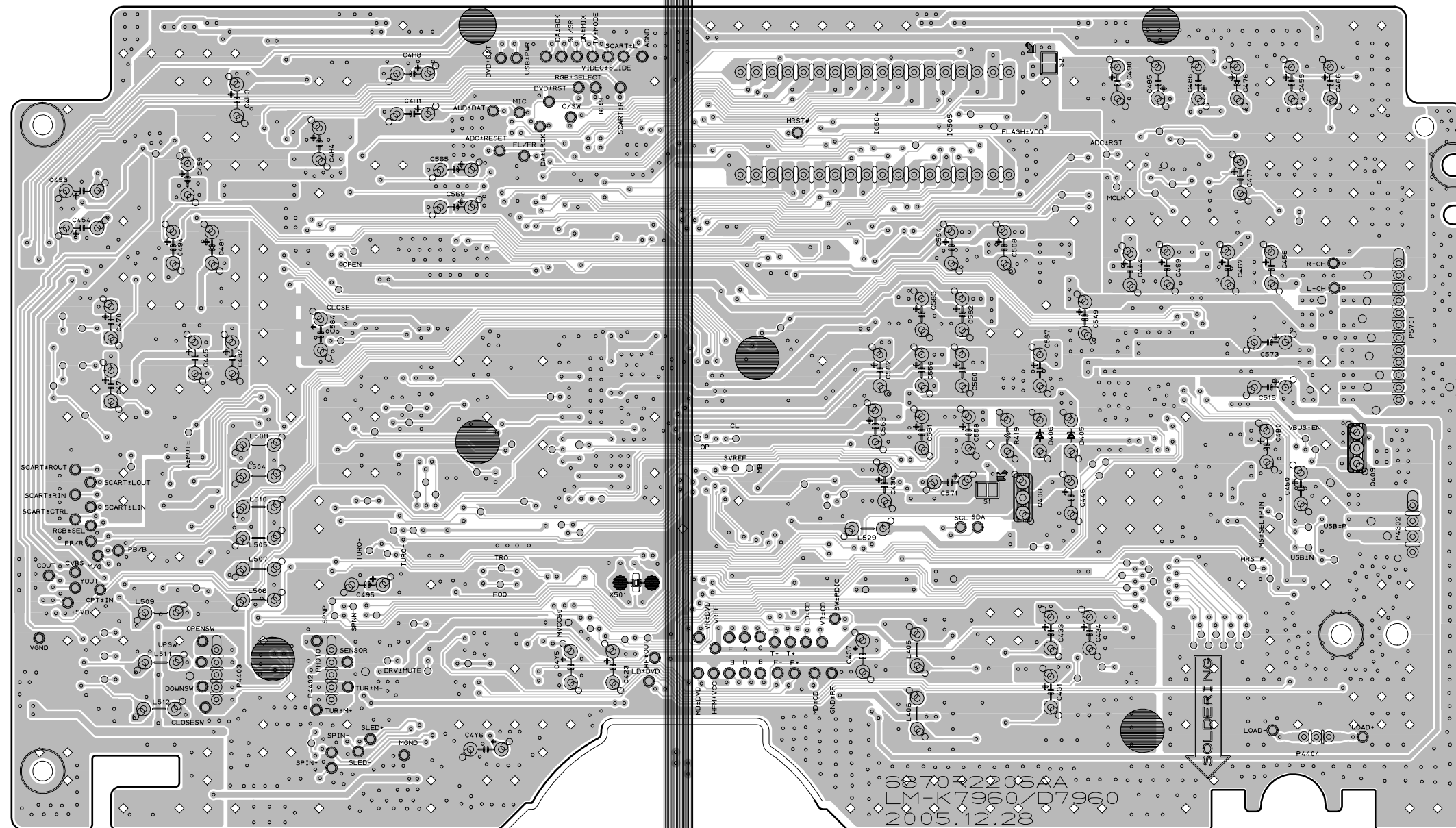


USB  
3854R12096A\_003

- DVD P.C. BOARD

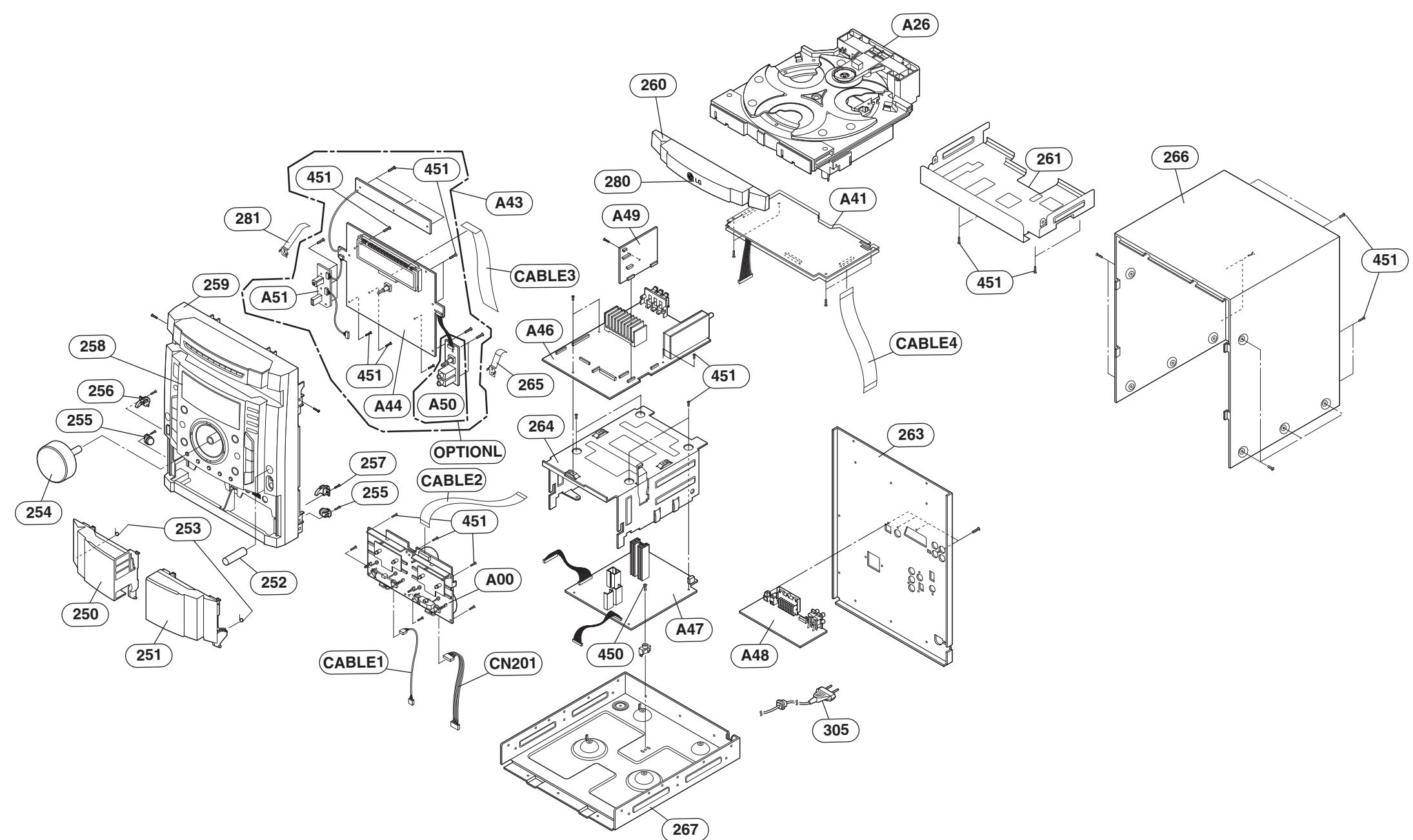


- **DVD P.C. BOARD**

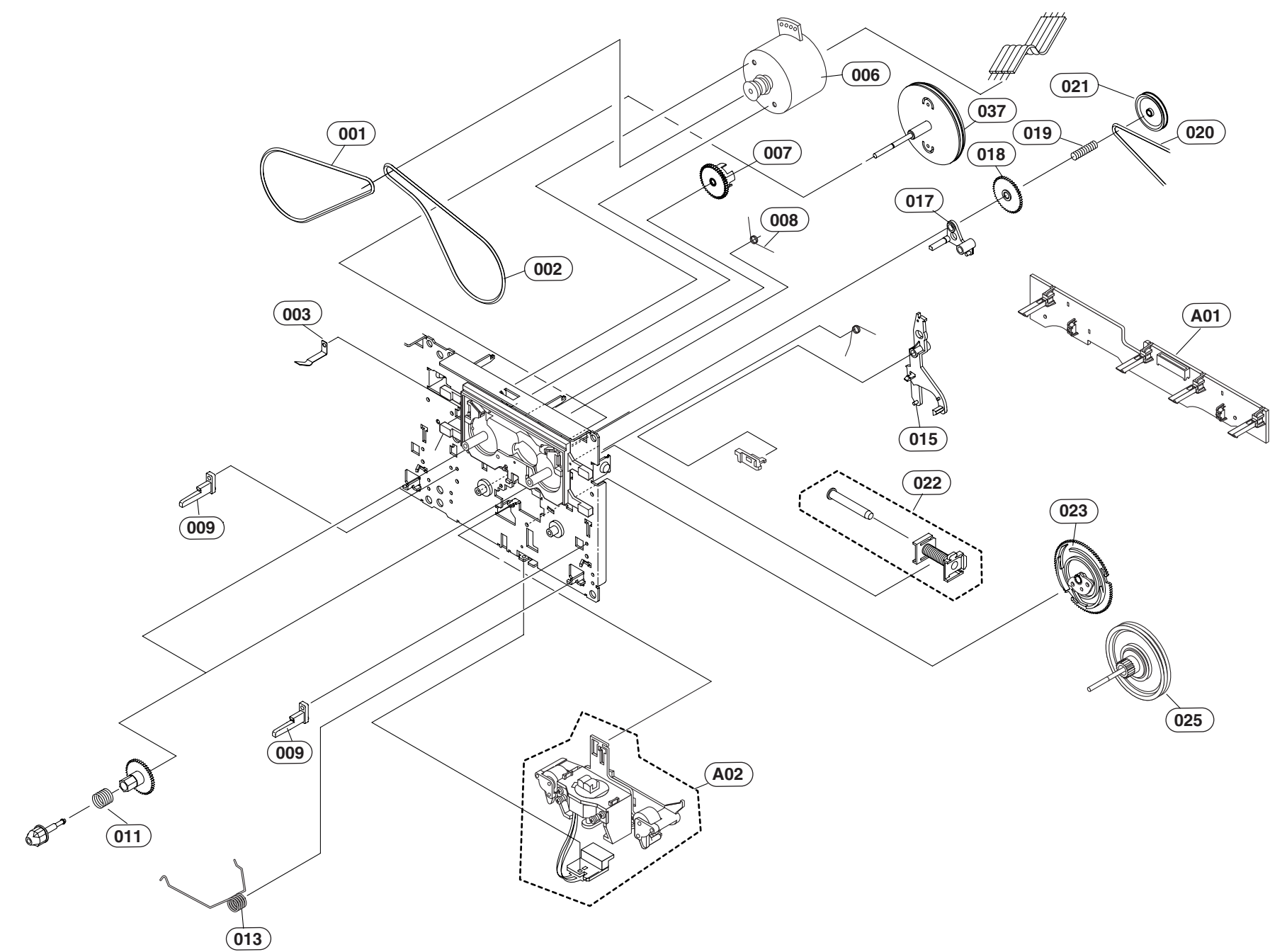


SECTION 4. EXPLODED VIEWS

□ CABINET AND MAIN FRAME SECTION

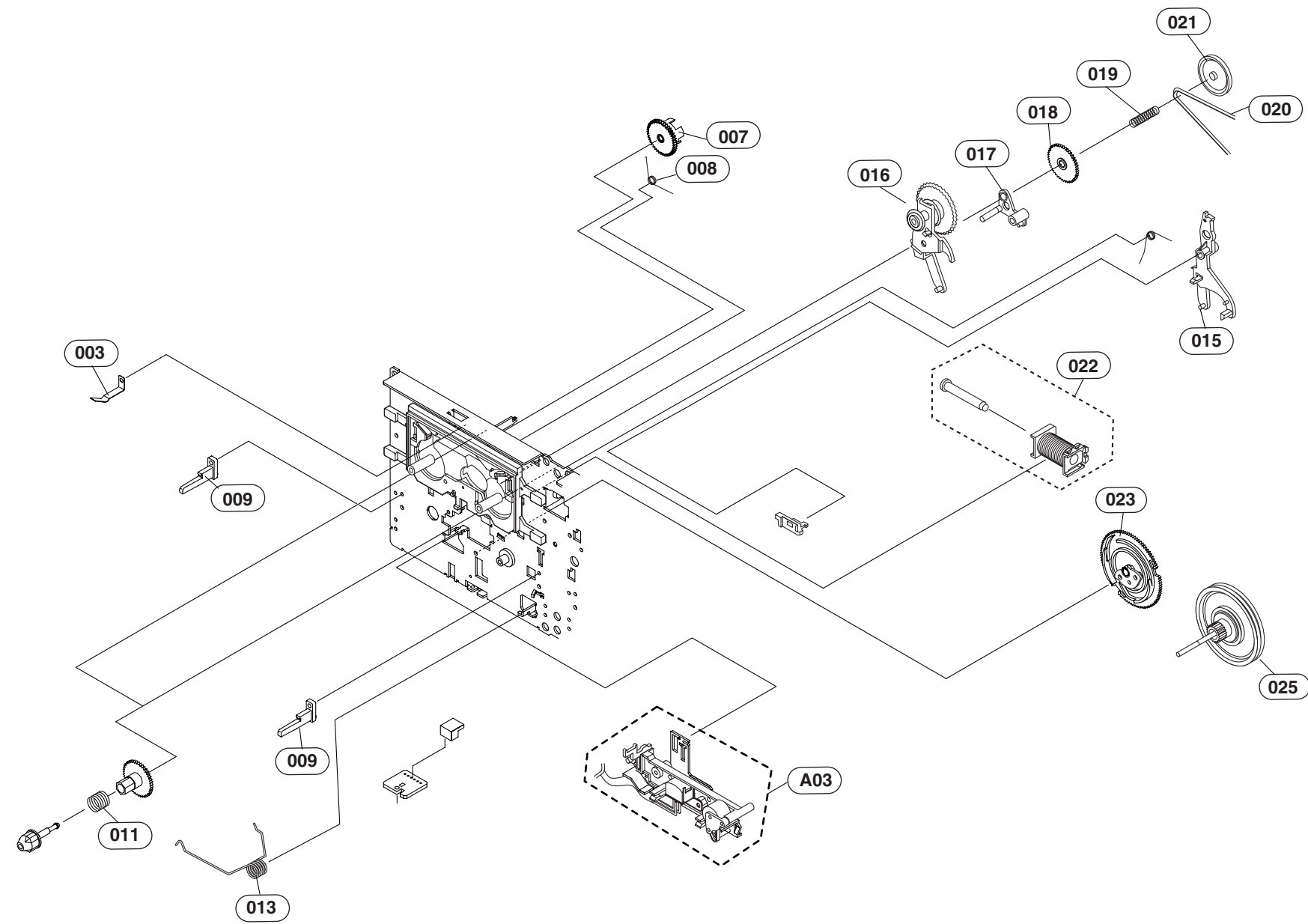


□ TAPE DECK MECHANISM (A/R & A/S : LEFT A/S DECK)



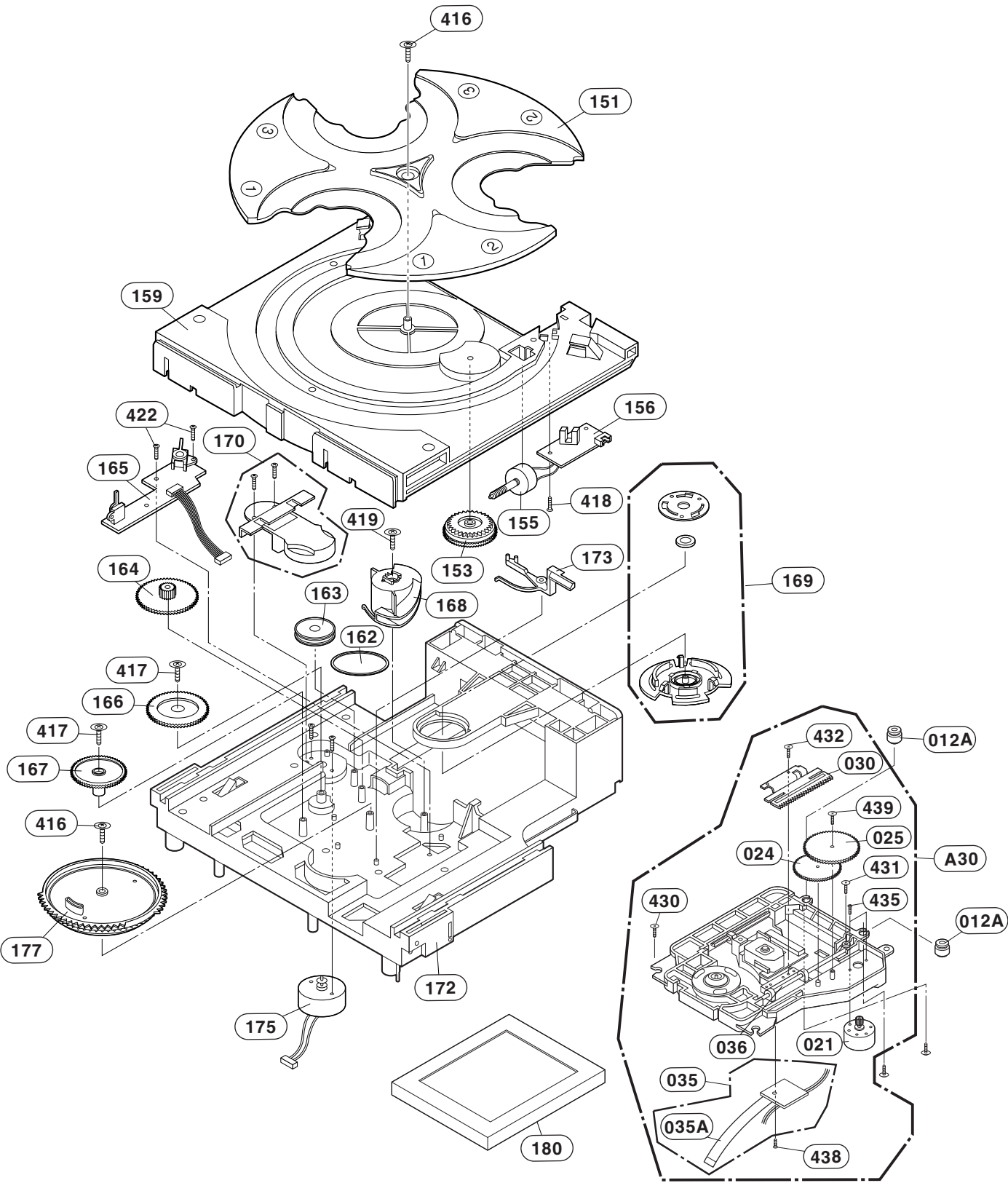
| LOCA. NO. | LG PART NO. | DESCRIPTION          | SPECIFICATION                  |
|-----------|-------------|----------------------|--------------------------------|
| A00       | 6720AG0013A | DECK,AUDIO           | CWN42FR605 TOKYO PIG           |
| A01       | 6768RZUP01A | DECK MECHANISM PARTS | 50-093-4XXXX PIGEON UNIT PC    |
| A02       | 6768R-EP05A | DECK MECHANISM PARTS | 50-093-41234 PIGEON HEAD ASSY  |
| 001       | 6768RZBP04A | DECK MECHANISM PARTS | 02-083-4266 ÁPIGEON BELT/FEC   |
| 002       | 6768RZBP05A | DECK MECHANISM PARTS | 02-083-4267 PIGEON BELT/FEL    |
| 003       | 6768R-PP03A | DECK MECHANISM PARTS | 33-160-4309 PIGEON PRESS CASSE |
| 006       | 6768R-QP04A | DECK MECHANISM PARTS | 50-093-41299 PIGEON MOTOR(ASSY |
| 007       | 6768RZGP03A | DECK MECHANISM PARTS | 50-222-41226 PIGEON GEAR ID    |
| 008       | 6768R-SP01F | DECK MECHANISM PARTS | 01-082-4598 PIGEON SPRING CWL4 |
| 009       | 6768R-MP01C | DECK MECHANISM PARTS | 50-219-4014 PIGEON MOLD CWL44  |
| 011       | 6768R-SP01A | DECK MECHANISM PARTS | 01-081-4601 PIGEON SPRING CWL4 |
| 013       | 6768RZSP02A | DECK MECHANISM PARTS | 01-082-4688 PIGEON SPRING      |
| 015       | 6768R-AP01A | DECK MECHANISM PARTS | 50-268-3016 PIGEON ARM CWL44   |
| 017       | 6768R-AP01C | DECK MECHANISM PARTS | 50-239-4072 PIGEON ARM CWL44   |
| 018       | 6768R-GP01J | DECK MECHANISM PARTS | 50-222-4428 PIGEON GEAR CRL442 |
| 019       | 6768R-SP01P | DECK MECHANISM PARTS | 01-081-4678 PIGEON SPRING CRL4 |
| 020       | 6768R-BP01C | DECK MECHANISM PARTS | 02-083-4188 PIGEON BELT/FELT C |
| 021       | 6768R-LP01C | DECK MECHANISM PARTS | 50-223-4429 PIGEON PULLEY/FLYW |
| 022       | 6768RZVP03A | DECK MECHANISM PARTS | 50-093-4780 PIGEON SOLENOID    |
| 023       | 6768RZGP05A | DECK MECHANISM PARTS | 50-221-31320 PIGEON GEAR ASSY  |
| 025       | 6768RZJP02A | DECK MECHANISM PARTS | 50-093-31032 PIGEON PULLEY/FLY |
| 037       | 6768R-JP03A | DECK MECHANISM PARTS | 50-093-4674 PIGEON PULLEY/FLYW |

TAPE DECK MECHANISM (A/R & A/S : RIGHT A/R DECK)



| LOCA. NO. | LG PART NO. | DESCRIPTION          | SPECIFICATION                  |
|-----------|-------------|----------------------|--------------------------------|
| A00       | 6720AG0013A | DECK,AUDIO           | CWN42FR605 TOKYO PIG           |
| A03       | 6768RZHP02A | DECK MECHANISM PARTS | ASSY B-DECK PIGEON HEAD        |
| 003       | 6768R-PP03A | DECK MECHANISM PARTS | 33-160-4309 PIGEON PRESS CASSE |
| 007       | 6768RZGP03A | DECK MECHANISM PARTS | 50-222-41226 PIGEON GEAR ID    |
| 008       | 6768R-SP01F | DECK MECHANISM PARTS | 01-082-4598 PIGEON SPRING CWL4 |
| 009       | 6768R-MP01C | DECK MECHANISM PARTS | 50-219-4014 PIGEON CWL44       |
| 011       | 6768R-SP01A | DECK MECHANISM PARTS | 01-081-4601 PIGEON SPRING CWL4 |
| 013       | 6768RZSP02A | DECK MECHANISM PARTS | 01-082-4688 PIGEON SPRING      |
| 015       | 6768R-AP01A | DECK MECHANISM PARTS | 50-268-3016 PIGEON ARM CWL44   |
| 016       | 6768R-GP04A | DECK MECHANISM PARTS | 50093-41399 PIGEON GEAR AS     |
| 017       | 6768R-AP01C | DECK MECHANISM PARTS | 50-239-4072 PIGEON ARM CWL44   |
| 018       | 6768R-GP01J | DECK MECHANISM PARTS | 50-222-4428 PIGEON GEAR CRL442 |
| 019       | 6768R-SP01P | DECK MECHANISM PARTS | 01-081-4678 PIGEON SPRING CRL4 |
| 020       | 6768R-BP01C | DECK MECHANISM PARTS | 02-083-4188 PIGEON BELT/FELT C |
| 021       | 6768R-LP01C | DECK MECHANISM PARTS | 50-223-4429 PIGEON PULLEY/FLYW |
| 022       | 6768RZVP03A | DECK MECHANISM PARTS | 50-093-4780 PIGEON SOLENOID    |
| 023       | 6768RZGP05A | DECK MECHANISM PARTS | 50-221-31320 PIGEON GEAR ASSY  |
| 025       | 6768RZJP02A | DECK MECHANISM PARTS | 50-093-31032 PIGEON PULLEY/FLY |

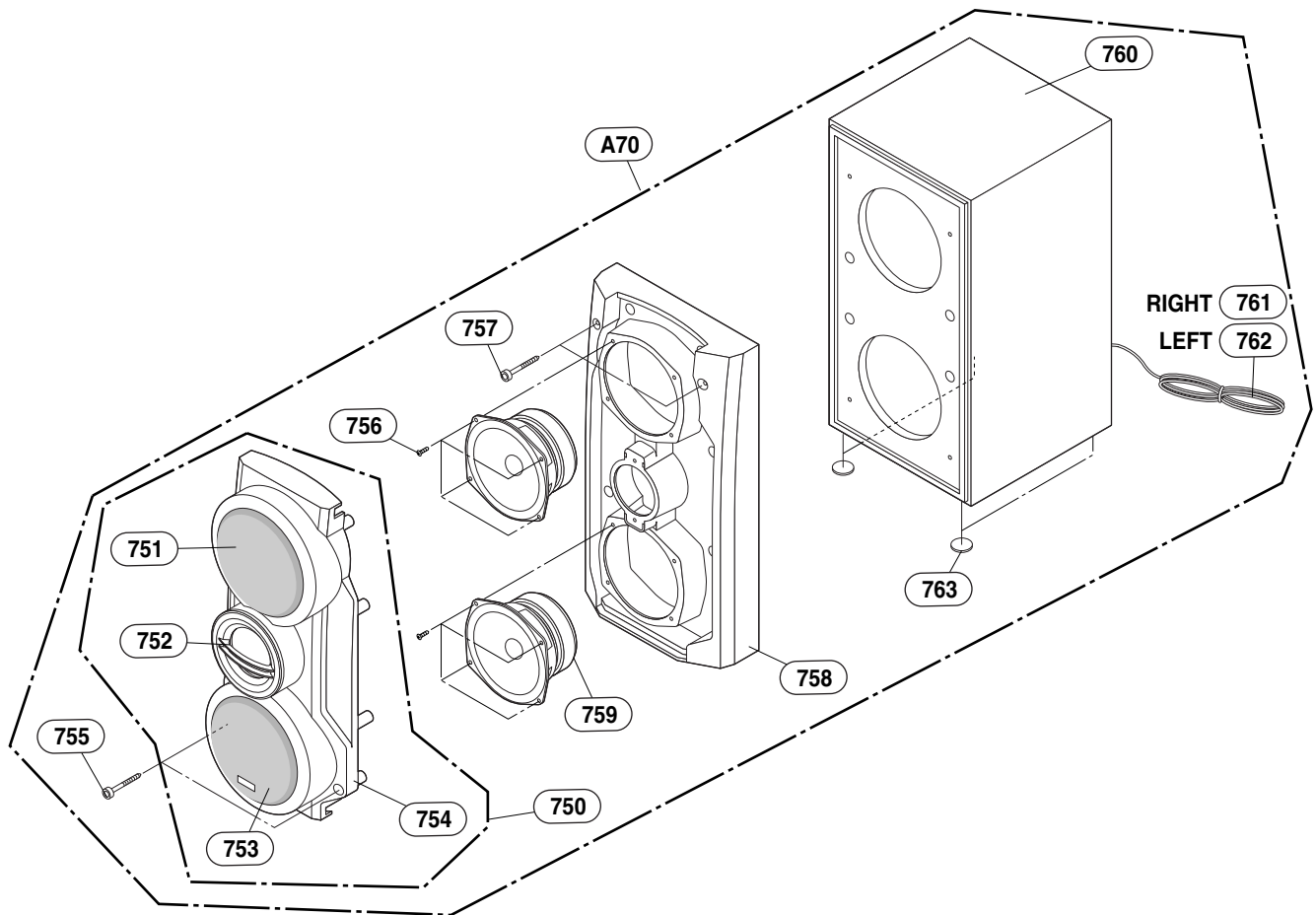
DECK MECHANISM EXPLODED VIEWS



| LOCA. NO. | PART NO.    | DESCRIPTION              | SPECIFICATION                  |
|-----------|-------------|--------------------------|--------------------------------|
| A26       | 4405RCS007E | MECHANISM ASSEMBLY       | DVM-H1523(DP-9 SS P/UP)DVD 3   |
| A30       | 3041RBD003H | BASE ASSEMBLY            | PU (DVM-H1533 DP-10 SS P/UP) H |
| 012       | 5040R-0110A | RUBBER                   | DVD REAR DP8 RIGHT 20 OTHER BL |
| 012A      | 5040R-0110A | RUBBER                   | DVD REAR DP8 RIGHT 20 OTHER BL |
| 021       | 4681R-B009C | MOTOR ASSEMBLY           | DECK/MECHA DP-10 FEEDING       |
| 024       | 4470R-0179A | GEAR                     | DVD DP-9 PINION MOLD           |
| 025       | 4470R-0178A | GEAR                     | DVD DP-9 MIDDLE MOLD           |
| 030       | 4470R-0180A | GEAR                     | DVD DP-9 RACK MOLD             |
| 035       | 6871R-9295D | PWB(PCB) ASSEMBLY,TOTAL  | DP-10 FOR 3 CHANGER FEEDING    |
| 035A      | 6850R-JE20Z | CABLE,FLAT               | P=1.0 FFC UL2896(0.05X0.65)11  |
| 036       | 4370R-0136A | SHAFT                    | DVD PU, DR-02 SUS-420J2 OTHER  |
| 151       | 3390RB0002A | TRAY                     | DISC(CDM-H1503)                |
| 153       | 4470RB0005A | GEAR                     | TRAY (CDM-H1503)               |
| 155       | 4681RBA001C | MOTOR ASSEMBLY           | HOME TRAY (CDM-H1503) MABUCHI  |
| 156       | 6871RF9211A | PWB(PCB) ASSEMBLY,FRONT  | 1503 T/D SENSOR                |
| 159       | 3390RB0001B | TRAY                     | DECK/MECHA CDM-H1503 MOLD LOAD |
| 162       | 4400R-0012A | BELT                     | DECK/MECHA MAIN CDM-H1503V OTH |
| 163       | 4470R-0190A | GEAR                     | DECK/MECHA PULLEY CDM-H1503V M |
| 164       | 4470RB0003A | GEAR                     | LOADING (CDM-H1503)            |
| 165       | 6871RZ7036A | PWB(PCB) ASSEMBLY,OTHERS | CDM-H1503 UP/DW/OP/CL          |
| 166       | 4470RB0006A | GEAR                     | PU UP (CDM-H1503)              |
| 167       | 4470RB0007A | GEAR                     | PU DOWN (CDM-H1503)            |
| 168       | 4470RB0002A | GEAR                     | CAM (CDM-H1503)                |
| 169       | 4861RB0002B | CLAMP ASSEMBLY           | DVD DVM-H1513                  |
| 170       | 3550R-0685A | COVER                    | DECK/MECHA GUIDE MOTOR CDM-H15 |
| 172       | 3040RB0005A | BASE                     | MAIN (CDM-H1503)               |
| 173       | 4510RB0001A | LEVER                    | S/W CLOSE                      |
| 175       | 4681RBA002A | MOTOR ASSEMBLY           | HOME LOADING (PULLEY 8.6)      |
| 177       | 4470RB0001A | GEAR                     | MAIN (CDM-H1503)               |
| 180       | 3210R-M009A | FRAME                    | UD MOLD DVM-H1523V             |
| 416       | 88H-0004    | CD MECHA PARTS           | 3X12X12FNM                     |
| 417       | 88H-0002    | CD MECHA PARTS           | 3X9X12FZMY                     |
| 418       | 88H-0003    | SCREW,DRAWING            | #NAME?                         |
| 419       | 88H-0004    | CD MECHA PARTS           | 3X12X10FZMY                    |
| 422       | 88H-0005    | SCREW                    | #NAME?                         |
| 430       | 88H-0006    | SCREW,DRAWING            | + 1 D1.7 L7.0 SWCH18A/BZN DP8  |
| 431       | 88H-0007    | SCREW,DRAWING            | + 1 D1.7 L4.5 SWCH18A/NI DP8 P |
| 432       | 88H-0008    | SCREW,DRAWING            | + 1 D1.7 L4.5 SWRCH18A/FZY DP8 |
| 435       | 88H-0009    | SCREW,DRAWING            | MACHINE                        |
| 439       | 88H-0010    | SCREW,DRAWING            | + 1 D1.7 L10.0 SWRCH18A/FZW DP |

## SECTION 5. SPEAKER SECTION

□ MODEL: LMS-K3960V



# MEMO

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