harman/kardon

Model CDR30

Dual Tray CD/CD-R/CD-RW Recorder/Player

SERVICE MANUAL

CONTENTS

harman/kardon, Inc.
250 Crossways Park Dr.
Woodbury, New York 11797

Rev0 2/2004

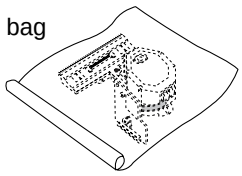
SERVICING PRECAUTIONS

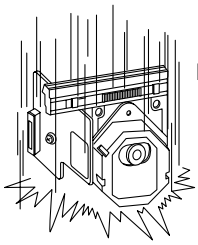
NOTES REGARDING HANDLING OF THE PICK-UP

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

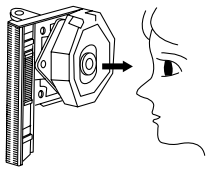




Drop impact

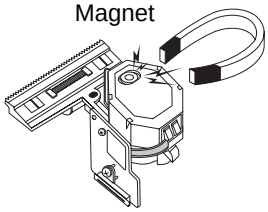
2. Repair notes

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.

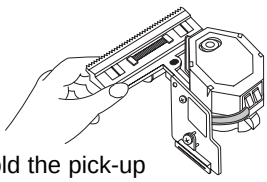


NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

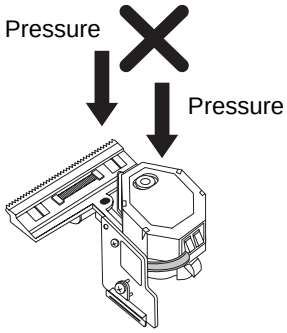
5) Cleaning the lens surface
If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



Magnet

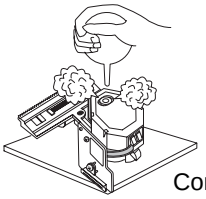


How to hold the pick-up

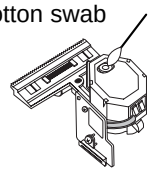


Pressure

Pressure



Conductive Sheet



Cotton swab

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.

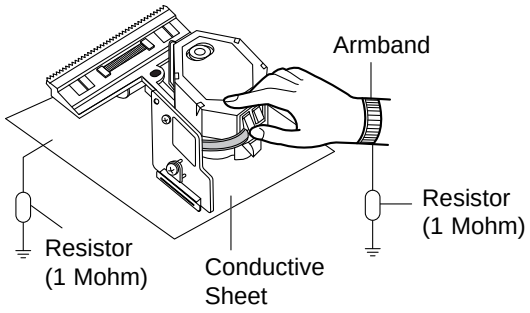
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

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 (1MΩ)
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.



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 by installed.

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

8. Minimize bodily motions when handing 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).

SPECIFICATIONS

Playback Sampling Frequency	44.1 kHz
D/A Conversion	96kHz, Multi-Bit Delta-Sigma Conversion
Oversampling	128 Times

Playback Specifications

Frequency Response	2Hz – 20,050Hz
Playback S/N	100dB
Playback Dynamic Range	100dB
Playback THD	0.005% / –88dB
Analog Audio Output	1V RMS, ± 2dB (1KHz 0dB)
Digital-Coaxial Output	0.5 Vpp/75Ω
Headphone Output	0.5V RMS/32Ω Load (1KHz 0dB)

Record Specifications

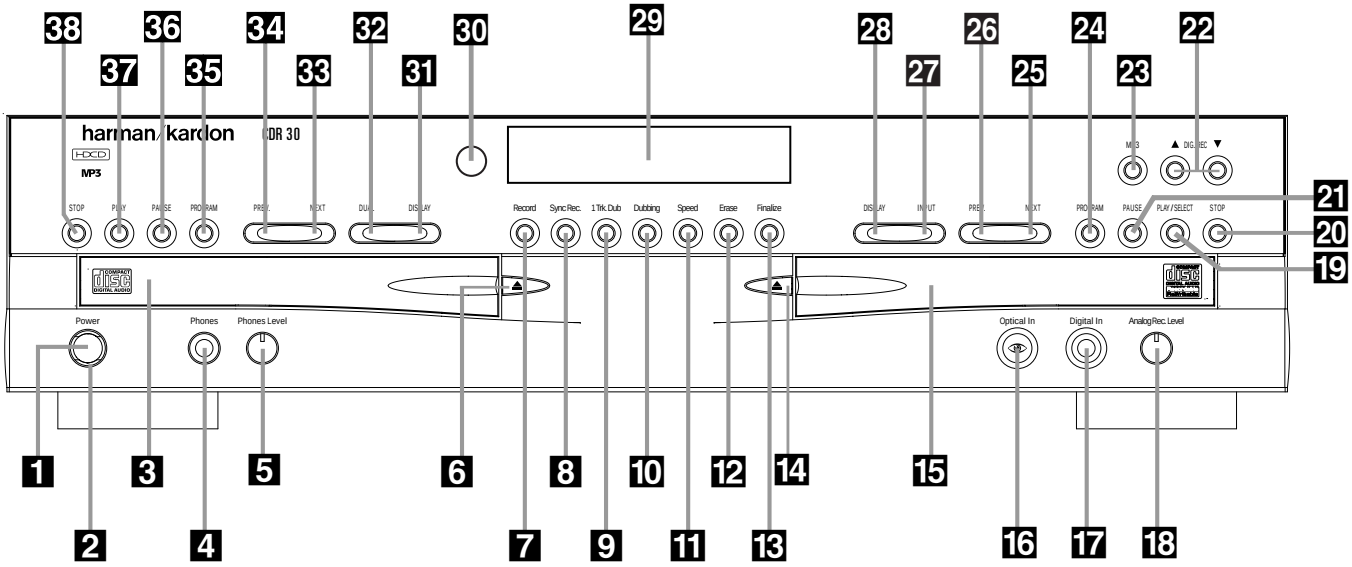
Digital Dubbing Mode(X1/X2/X4)	Equal to source
Digital Input Sample Rate	32kHz ~ 96kHz
Signal/Noise Ratio - Analog	91dB
Signal/Noise Ratio - External(Source)	source -10dB
Dynamic Range	91dB
THD	0.005%/-85dB
Analog Input Sensitivity	330 mV RMS 47kΩ = 0dB
Digital Inputs (Direct Recording)	44.1kHz, ± 100 ppm/min.

General

Power Requirement	100~240V AC, 50/60Hz
Power Consumption	26 Watts
Dimensions	
Width	17.3" (440mm)
Height	4.4" (112mm)
Depth	14.2" (363mm)
Weight	10.6 lbs (4.8 kg)

Depth measurement includes knobs, buttons and connection jacks.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

Front Panel Controls



1 Power Switch
2 Standby Mode Indicator
3 Play (CDP) Deck
4 Headphone Jack
5 Headphone Level Control
6 Play (CDP) Open/Close
7 Record Button
8 Sync Record Button
9 1 Track Dub Button
10 Dubbing Button
11 Speed Select Button
12 Erase Button
13 Finalize Button
14 Record (CDR) Deck Open/Close
15 Record (CDR) Deck
16 Optical Digital Input
17 Coaxial Digital Input
18 Analog Record Level Control
19 CDR Play/Select Button
20 CDR Deck Stop
21 CDR Deck Pause
22 Digital Level Controls
23 MP3 Select Button
24 CDR Deck Program Button
25 CDR Deck Next Track Button
26 CDR Deck Previous Track Button
27 Input Select
28 CDR Deck Display Select
29 Information Display
30 Remote Sensor
31 CDP Deck Display Select
32 Dual/Single Play Select
33 CDP Next Track
34 CDP Deck Previous Track
35 CDP Deck Program
36 CDP Deck Pause Button
37 CDP Deck Play Button
38 CDP Deck Stop Button

1 Power Switch: Press this switch to apply power to the CDR 30. When the unit is first turned on, the **Standby Mode Indicator 2** surrounding the switch will turn green. Once the unit has been turned on with this switch, it may be operated from either the front panel or remote control. Press the switch again to turn the unit completely off.

2 Standby Mode Indicator: When the CDR 30 is in the ON mode, this indicator will glow green. When the unit has been placed in the Standby mode by pressing the **Power-Off Button 29** on the remote, the indicator will glow amber, indicating that the unit is still connected to the AC main supply and may be turned on from the remote control.

3 Play (CDP) Deck: This disc drawer is used to play back conventional CD discs, MP3 discs and CD-R or CD-RW discs that have been finalized.

4 Headphone Jack: Connect standard headphones to this jack for private listening.

5 Headphone Level Control: Turn this control to adjust the volume level to the headphones. Note that the use of this control will not change the analog output levels at the rear panel audio outputs **12**.

6 Play Deck (CDP) Open/Close: Press this button to open the **Play Deck 3**.

7 Record Button: Press this button to begin the recording process. See pages 21–25 for more information on CD recording.

8 Sync Record Button: Press this button once to begin an automated recording of a single track from an external CD player when a digital connection is used. Press it twice to begin automated recording of an entire disc. See page 22 for more information on CD Sync recording.

9 1 Track Dub Button: Press this button to begin the process of copying a single track from the CDP deck to a CD-R or CD-RW disc in the CDR deck.

10 Dubbing Button: Press this button to begin the process of making a complete copy of the disc in the **Play Deck 3** to a CD-R or CD-RW disc in the **Record Deck 15**. See page 21 for more information on dubbing.

11 Speed Select Button: Press this button to select the recording speed for internal dubs. See page 21 for more information on selecting the proper speed.

12 Erase Button: Press this button to erase one or more tracks or the entire contents of an unfinalized CD-RW disc. When a CD-RW disc has already been finalized you may erase the entire disc or you may "unfinalize" the disc by erasing the TOC data. See page 24 for more information on erasing CD-RW discs.

Front Panel Controls

13 Finalize Button: Press this button when a recording is complete to initiate the finalization process. The **Play/Select Button 19** must be pressed within three seconds to activate finalization. Until this button is pressed and the finalization process is complete, CD-R discs may not be played on conventional CD machines. See page 23 for more information on finalization.

14 Record (CDR) Deck Open/Close: Press this button to open the **Record Deck 15**.

15 Record (CDR) Deck: This Disc Deck is used to record or play back CD, MP3, CD-R and CD-RW discs.

16 Optical Digital Input: This jack accepts the digital audio input signal from a compatible digital audio product and should be connected directly to the optical digital audio output on a CD or DVD player or an A/V receiver or processor. To select this input, press the **Input Select Button 27** until ◊PTICAL DIGITAL appears in the **Time/Message Display F**. Note that the cover with the "eye" icon must be removed before the input is used. Save the cover and replace it when the jack is not in use to prevent dust from entering the jack and degrading the input's performance.

17 Coaxial Digital Input: This input may be used to connect a portable digital audio player to the CDR 30 for digital recording. To select this input, press the **Input Select Button 27** until COAXIAL DIGITAL appears in the **Time/Message Display F**.

18 Analog Record Level Control: The control is used to adjust the input level when making recordings from analog sources such as cassettes, or when CDs are recorded in an analog mode. See page 23 for more information on record levels.

19 CDR Play/Select Button: This button has two functions. It may be pressed when a standard CD is in the Record Deck to put the machine in play, or it may be used to enter a selection or start certain record functions.

20 CDR Deck Stop: Press this button to stop the CD in the Record Deck.

21 CDR Deck Pause Button: When the Record Deck is in the Play mode, pressing this button will pause the disc. If the disc has previously been paused, pressing this button will restart the playback.

22 Digital Level Controls: These buttons raise or lower the record level when a digital recording is being made. Pressing both buttons briefly and then release them to change from manual to automatic digital recording level control. See page 23 for more information on digital recording levels.

23 MP3 Select Button: When a "Multisession" disc containing both standard CD audio and MP3 tracks is playing, the unit will default to play of the standard CD audio tracks. Press this button to play the MP3 tracks.

24 CDR Deck Program Button: Press this button to begin the programming sequence for a disc in the CDR deck. See page 19 for more information on programmed playback.

25 CDR Deck Next Track: When a disc is playing in the **Record Deck 15**, press and hold this button to play the disc in a fast-forward mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the next track on a disc in play.

26 CDR Deck Previous Track: This button has two functions. When a disc is playing in the **Record Deck 15**, press and hold this button to play the disc in a fast reverse mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the beginning of the current track, and the next press will move to the previous track. When a disc is stopped, each press will move back one for programming or play when the disc is stopped. Once a track is entered, it may be played by simply pressing the **Play Button 19 10**.

27 Input Select: Press this button to select the input source (coaxial rear, optical rear, coaxial front, optical front and analog) for recording. See page 23 for more information on input selection.

28 CDR Deck Display Select: Press this button to cycle through the time display options for the Record Deck. See page 18 for more information on the time display.

29 Information Display: The indicators in the Information Display provide status reports on the operation of the CDR 30. See page 7 for complete explanations of each indicator.

30 Remote Sensor: The IR sensor that receives the commands from the remote control is behind this area. Do not cover or obscure this part of the front panel to avoid any malfunction with the remote.

31 CDP Deck Display Select: Press this button to cycle through the time display options for the Play Deck. See page 18 for more information on the time display.

32 Dual/Single Play Select: Press this button to enable both CD decks to play at the same time and function as separate, independent CD units or to have the unit play through all the tracks on the disc in one deck and then switch to the other. In the Dual mode it is also possible to record from an external source in the CDR while the CDP Deck is functioning as a standard CD player. See page 18 for more information on dual-play capability.

33 CDP Deck Next Track: When a disc is playing in the **Play Deck 3**, press and hold this button to play the disc in a fast-forward mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the next track on a disc in play.

34 CDP Deck Previous Track: This button has two functions. When a disc is playing in the **Play Deck 3**, press and hold this button to play the disc in a fast-reverse mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the beginning of the current track, and the next press will move to the previous track. When a disc is stopped, each press will move back one track for programming or play when the disc is stopped. Once a track is entered, it may be played by simply pressing the **Play Button 37 10**.

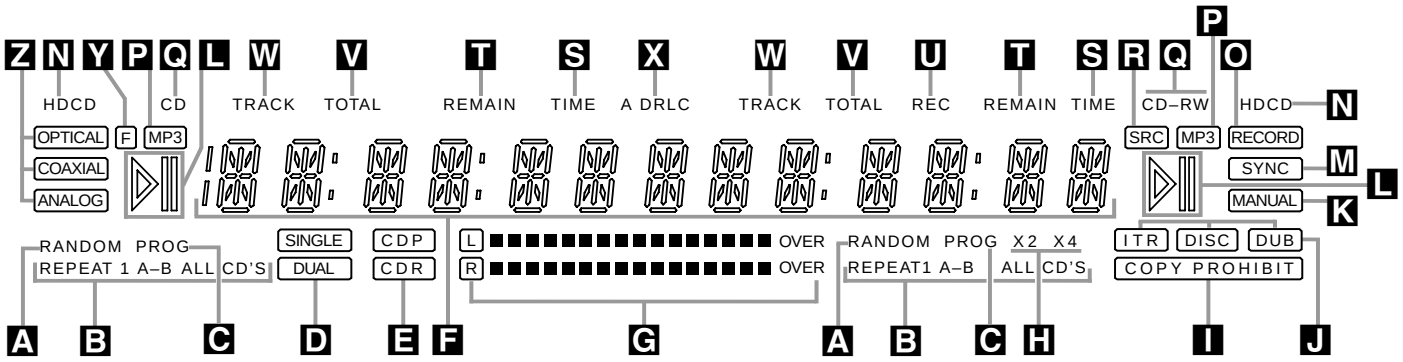
35 CDP Deck Program Button: Press this button to begin the programming sequence for a disc in the CDR deck. See page 19 for more information on programmed playback.

36 CDP Deck Pause: When the CDP Deck is running, pressing this button will pause the disc. If the disc has previously been paused, pressing this button will restart the playback.

37 CDP Deck Play Button: Press this button to begin playback of a CD in the CDP Deck.

38 CDP Deck Stop Button: Press this button to stop the CD in the CDP Deck.

Front Panel Information Display



A Random Indicator
B Repeat Mode Indicators
C Program Indicator
D Single/Dual Play Indicators
E CDP/CDR Deck Indicator
F Time/Message Display
G Level Indicators
H Dub Speed Indicators
I Copy Prohibit Indicator
J Dub Mode Indicators
K Manual Track Increment Indicator
L Play/Pause Indicators
M CD Sync Indicator
N HDCD Indicators
O Record Indicator
P MP3 Playback Indicator
Q CDR/RW Indicator
R Sample-Rate Converter Indicator
S Time Indicators
T Remaining Time Indicators
U Record Time Indicator
V Total Time Indicators
W Track Time Indicators
X Digital Record Level Status Indicator
Y Front Input Indicator
Z Input Indicators

Important Note: Since the CDR 30 is a dual-deck player/recorder, there are two separate sets of indicators for the Random, Program, Repeat, Repeat Status, Time, Total Time, Track Time. Play/Pause Indicator and CD Indicators for each deck. As the function of these indicators is identical for both decks, they are described in this manual with a common letter. When the CDR 30 is playing or recording a disc, any indicators that light on the left side of the display describe the status of the Play Deck, while those that light on the right side of the display describe the status of the Record Deck. Depending on the activity of the unit and the settings you select, different indicators may light on the two sides at the same time.

A Random Indicators: These indicators light when random playback has been programmed for one of the decks. See page 19 for more information on random play.

B Repeat Mode Indicators: These indicators display the type of repeat function being used. See page 19 for more information on repeat status.

C Program Indicators: These indicators light when one of the decks is being programmed for playback options. See page 19 for more information on programmed play.

D Single/Dual Play Indicators: One of these indicators will light to indicate the unit's playback mode, as selected with the **Dual/Single Play Select Buttons** 32 7 24. When the Dual indicator lights, both decks will play simultaneously to through their respective analog or digital outputs. When the SINGLE indicator is lit, only one deck may play at a time, but the unit will automatically switch from one side to the other when a deck is finished playing.

E CDP/CDR Deck Indicator: These indicators show if the **Level Indicators G** are showing the output of the record (CDR) or play (CDP) deck.

F Time/Message Display: This display shows the play or record time for either deck, as noted by the various time and mode indicators **S T U V W**. It also displays the CD Text or MP3 information from a disc and displays various information, status and error messages.

G Level Indicators: These LEDs display the input level during a recording, and the output level during playback. See page 23 for more information on record levels.

H Dub Speed Indicators: These indicators show which record speed has been selected for dub recordings. See page 21 for more information on record-speed selection.

Front Panel Information Display

I Copy Prohibit Indicator: This indicator lights when a recording is not possible due to the intervention of the Serial Copy Management System (SCMS). See page 20 for more information on SCMS.

J Dub Mode Indicators: These indicators light when a dub is in progress between the CDP and CDR decks to confirm that either one track **(1 TR)** or the entire disc **(DISC)** is being dubbed.

K Manual Track Increment Indicator: This indicator lights when the automatic track increment system has been turned off. When the indicator is lit, tracks may be incremented during a recording by pressing the **Track Increment Button 14**.

L Play/Pause Indicators: These indicators show the status of the individual decks. The ▶ lights when the CD is playing, and the ▶❙❙ lights when either deck is in a Pause mode.

M CD Sync Indicator: This indicator lights when the unit has been programmed for a CD Sync recording. See page 22 for more information on CD Sync recordings.

N HDCD Indicators: These indicators will light when either of the decks is playing a disc that contains HDCD encoding.

O Record Indicator: This indicator lights when the unit is making a recording and flashes during the preparations for recording.

P MP3 Playback Indicator: These indicators will light when either of the decks is playing a disc that contains MP3 data.

Q CDR/RW Indicator: This indicator shows which type of recordable disc is present in the **Record Deck 15**. When a CD-R disc is present, only the R is lit. The RW lights when an erasable CD-RW disc is in use.

R Sample-Rate Converter Indicator: This indicator lights when the Sample-Rate Converter is in use to change the digital sample rate when the incoming signal is not the standard 44.1kHz used by standard CDs. This is an automatic function and does not require any user intervention.

S Time Indicators: These indicators light in conjunction with one of the **Time Indicators T V W** to show which of the time status modes is active.

T Remaining Time Indicators: These indicators light when the **Time/Message Display F** shows the time remaining on a disc.

U Record Time Indicator: This indicator lights in conjunction with the **REMAIN T** or **TOTAL V** indicators during a recording to show that the time figure shown in the **Time/Message Display F** is either the time remaining on the disc or the time elapsed for the current track.

V Total Time Indicators: These indicators light when the **Time/Message Display F** shows the total time of all tracks on a disc.

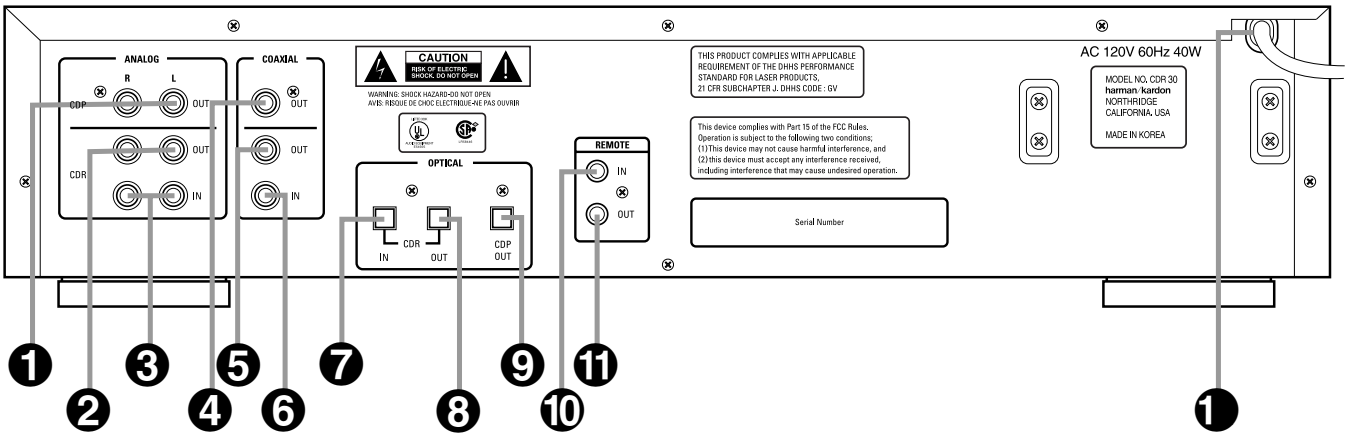
W Track Time Indicators: These indicators light when the **Time/Message Display F** shows the running time of the individual track being played.

X Digital Record Level Status Indicator: During a digital recording, this indicator shows **ADRLC** when the record level is controlled automatically, and **DRLC** when you may control it manually. See page 23 for more information on record levels.

Y Front Input Indicator: This indicator lights when the front panel **Optical Digital 16** or **Coaxial Digital 17** inputs are the source for a recording.

Z Input Indicators: These indicators light to display which input source is in use.

Rear Panel Connections



❶ Play (CDP)-Deck Analog Output
❷ Record (CDR)-Deck Analog Output
❸ Record (CDR)-Deck Analog Input
❹ Play (CDP)-Deck Coaxial-Digital Output
❺ Record (CDR)-Deck Coaxial-Digital Output
❻ Record (CDR)-Deck Coaxial-Digital Input
❼ Record (CDR)-Deck Optical-Digital Input
❽ Record (CDR)-Deck Optical-Digital Output
❾ Play (CDP)-Deck Optical-Digital Output
❿ Remote IR Input
⓫ Remote IR Output
❶ AC Power Cord

❶ Play (CDP)-Deck Analog Output: These jacks carry the analog audio output signal from the **Play Deck** **3**. Connect them to the CD input jacks on a receiver, preamp or processor.

❷ Record (CDR)-Deck Analog Output: These jacks carry the output signal from the **Record Deck** **15**. Connect them to the Tape Play/In input jacks on a receiver, preamp or processor.

❸ Record (CDR)-Deck Analog Input: These jacks accept the analog signals that are used for CD recordings. Connect them to the Tape Rec/Play outputs on a receiver, preamp or processor.

❹ Play (CDP)-Deck Coaxial-Digital Output: This jack carries the digital-audio output signal from the **Play Deck** **3**. Connect it to a coaxial-digital input on a receiver, processor or digital decoder.

❺ Record (CDR)-Deck Coaxial-Digital Output: This jack carries the digital audio output signal from the **Record Deck** **15**. Connect it to a coaxial digital input on a receiver, processor or digital decoder.

❻ Record (CDR)-Deck Coaxial-Digital Input: This jack accepts the digital-audio input signal from a compatible digital audio product and should be connected directly to a digital player or to a coaxial-digital output on a CD or DVD player or an A/V receiver or processor.

IMPORTANT NOTE: The coaxial digital inputs should only be connected to **digital** input or output jacks. Even though they use the same RCA-type connector as standard analog audio connections, DO NOT connect them to conventional analog input or output jacks.

❼ Record (CDR)-Deck Optical-Digital Input: This jack accepts the digital-audio input signal from a compatible digital audio product, and should be connected directly to the optical-digital output on a CD or DVD player or an A/V receiver or processor.

❽ Record (CDR)-Deck Optical-Digital Output: This jack carries the digital audio output signal from the **Record Deck** **15**. Connect it to an optical digital input on a receiver, processor or digital decoder.

❾ Play (CDP)-Deck Optical-Digital Output: This jack carries the digital audio output signal from the **Play Deck** **3**. Connect it to an optical-digital input on a receiver, processor or digital decoder.

❿ Remote IR Input: Connect the output of a remote infrared sensor or the remote control output of another compatible Harman Kardon product to this jack. This will enable the remote control to operate even when the front panel **Remote Sensor** **30** is blocked. This jack may also be used with compatible IR remote control based automation systems.

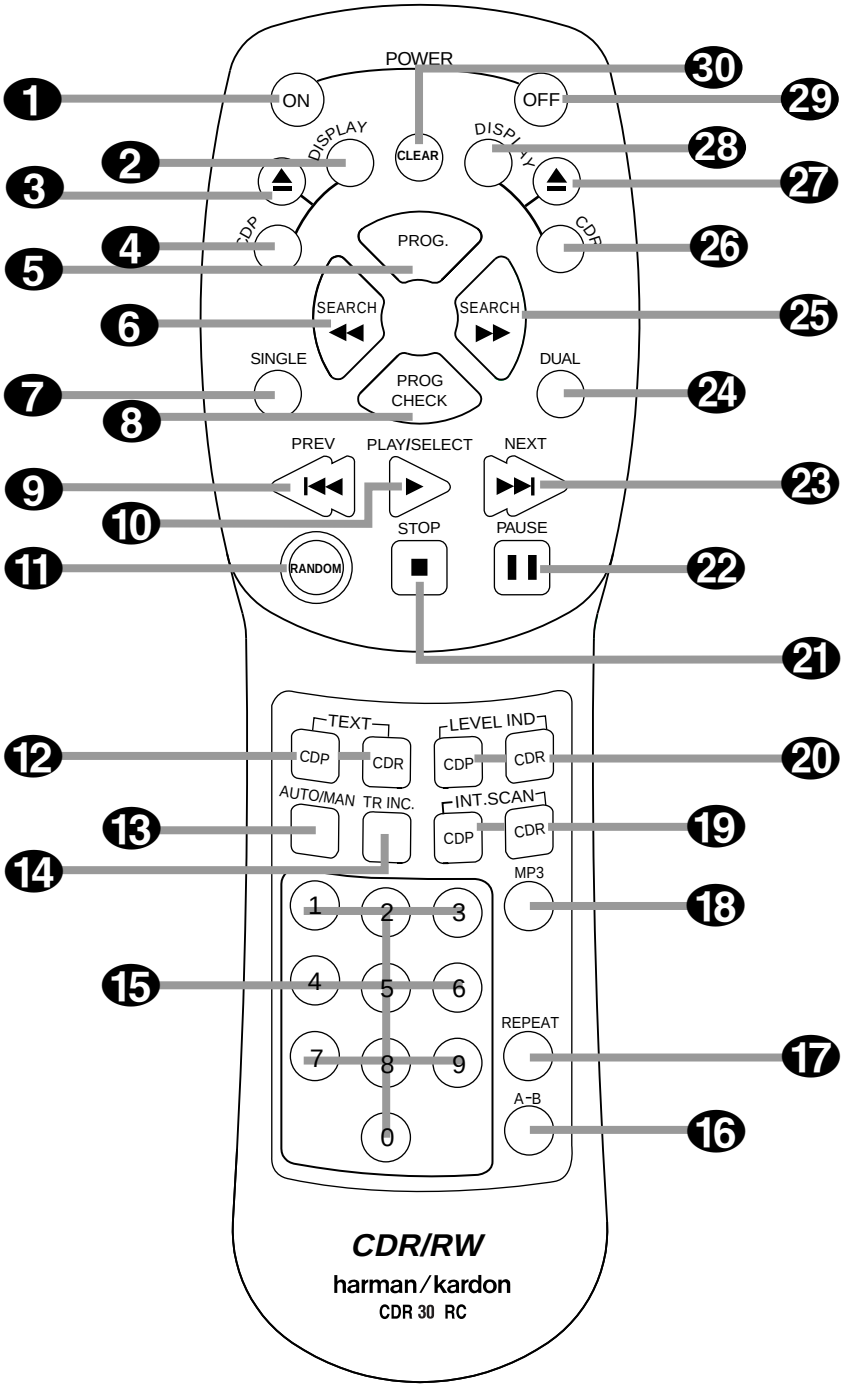
⓫ Remote IR Output: Connect this jack to the IR input jack of another compatible Harman Kardon remote controlled product to have the built-in **Remote Sensor** **30** on the CDR 30 provide IR signals to other compatible products.

❶ AC Power Cord: Connect this plug to an AC outlet. If the outlet is switch controlled, make certain that it is in the **ON** position.

Remote Control Functions

1. Power-On Button
2. Play Deck (CDP) Display
3. CDP Deck Open/Close
4. CDP Deck Select
5. Program
6. Reverse Search
7. Single Play Select
8. Program Check
9. Previous Track
10. Play/Select
11. Random Play
12. Text Readout Select
13. Auto/Manual Track Increment Selector
14. Track Increment
15. Numeric Keys
16. A-B Repeat Select
17. Repeat
18. MP3 Select
19. Intro Scan
20. Level Indicator Select
21. Stop
22. Pause
23. Next Track
24. Dual Play Playback
25. Forward Search
26. CDR Deck Select
27. CDR Deck Open/Close
28. CDR Display Speed
29. Power Off
30. Clear

IMPORTANT NOTE: Some of the remote's functions, including Play, Pause, Stop, Search, Next and Previous Track, are shared between the two decks. Always remember to press the CDP Select button 4 to use the remote to control the Play Deck, or press the CDR Select button 26 to control the Record Deck. When you press one of these buttons, an indication of CDP or CDR will appear in the Time/Message Display F.



Remote Control Functions

❶ **Power-On Button:** Press this button to turn the CDR 30 on. Note that in order for this control to function, the **Front Panel Power Switch** 1 must first be pressed so that the unit is in the Standby mode.

❷ **Play Deck (CDP) Display Control:** Press this button to cycle through the various time display options for the disc in the **Play Deck** 3. See page 18 for more information on time-display options.

❸ **Play Deck (CDP) Open/Close:** Press this button to open or close the **Play Deck** 3.

❹ **Play Deck (CDP) Select:** Press this button to control or program the functions of the disc in the **Play Deck** 3.

❺ **Program:** Press this button to begin the programming sequence for one of the CD decks. See page 19 for more information on programming the CDR 30.

❻ **Reverse Search:** Press this button to play the selected disc in reverse to locate a desired passage.

❼ **Single Play Select:** When this button is pressed, the CDR 30 will function as a two-disc CD player/ changer. In the Single mode, the audio output will be routed to all output jacks ❶❷❹❺❽, regardless of which CD deck is actually playing. See page 18 for more information on the Single-Play mode.

❽ **Program Check:** Press this button to check or edit a programmed playback sequence. See page 19 for more information on programmed playback.

❾ **Previous-Track Skip:** Press this button to skip backwards to the beginning of the track currently being played. Press it a second time to move back to the beginning of each previous track.

❿ **Play/Select:** This button has two functions. It will most often be used as a standard play button, but when setting up certain record functions, it is also used as an Enter or Select button.

⓫ **Random Play:** When the CD deck is stopped, press this button to begin random play of all tracks on a disc.

⓬ **Text Readout Select:** Press one of these buttons to view the CD Text or MP3 Text data from the disc playing in either the CDP or CDR decks. If one of the buttons is pressed and the disc playing does not contain text a NO TEXT message will be displayed in the **Time/Message Display** F.

⓭ **Auto/Manual Track Increment Selector:** Press this button to select between automatic and manual track increments during a recording session. See page 23 for more information on track increments.

⓮ **Track Increment:** When the Manual mode for track increments is selected during recording, press this button to increase the track number. **NOTE:** This function does not operate during CD Sync or dub recording.

⓯ **Numeric Keys:** Press these buttons to access a specific track for playback or during the programming process. See page 19 for more information on programmed playback.

⓰ **A-B Repeat:** Press this button to specify a segment of a disc for repeat play. See page 19 for more information on repeat play.

⓱ **Repeat:** Press this button once to repeat the current track. To repeat an entire disc, press the button twice.

⓲ **MP3 Select:** When a Multi-session disc with both CD Audio and MP3 data is playing, press this button to select playback of either type of information.

⓳ **Intro Scan:** Press one of these buttons to start the Intro Scan feature for either deck. When Intro Scan is in use, the unit will play the first ten seconds of each track on the disc. To play any track in its entirety during the Intro Scan process, press the **Play Button** ❿.

⓴ **Level Indicator Select:** Press these buttons to select the playback level display for either the play (CDP) or record (CDR) decks.

㉑ **Stop:** Press this button to stop playback or recording.

㉒ **Pause:** Press this button to momentarily pause playback. Press it again to resume playback.

㉓ **Next Track/Skip:** Press this button to skip forward to the next track on a disc.

㉔ **Dual Play Playback:** Press this button to enable both CD decks to play back at the same time and function as separate, independent CD units. In this mode it is also possible to record from an external source while the Play Deck is functioning as a standard CD player. See page 18 for more information on dual-play capability.

㉕ **Forward Search:** Press this button to play a disc in a fast-forward mode.

㉖ **Record Deck (CDR) Select:** Press this button to control or program the functions of the disc in the **Record Deck** 15.

㉗ **Record Deck (CDR) Open/Close:** Press this button to open or close the **Record Deck** 15.

㉘ **Record Deck (CDR) Display Control:** Press this button to cycle through the various time-display options for the disc in the **Record Deck** 15. See page 18 for more information on time-display options.

㉙ **Power Off:** Press this button to place the unit in a Standby mode.

㉚ **Clear:** Press this button to clear an item in a program sequence. See page 19 for more information.

Installation and Connections

Important Note: To prevent possible damage to your speakers or other components in your audio system, we strongly recommend that ALL system components, including the CDR 30, be turned off and unplugged from their AC power source when any connections are made or a new component is installed.

Locating the CDR 30
Since the CD transports in the CDR 30 are precision instruments, they are subject to interference from vibration. To minimize the possibility of skipping during playback or recording, it is recommended that the unit be placed on a level, solid, vibration-free surface.

When installing the CDR 30 in a cabinet or tight space, always make certain that there is enough room in front of the unit for the disc drawers to open fully, and that there is enough space above the unit so that discs may easily be inserted in the disc drawers.

In addition to the safety considerations outlined on page 4, it is also recommended that the CDR 30 not be placed in a location that is subject to direct sunlight or extreme heat or cold, as these conditions may damage the discs used in the player, or the player itself. Note that audio amplifiers or high-power receivers, as well as certain other electronic products, may generate significant heat. For that reason, do not place the CDR 30 directly on top of an amplifier, receiver, or other heat source. Always allow at least one inch of free space on all sides of the CDR 30, as well as other electronic products, to allow for proper ventilation.

The unit should also be kept away from sources of water or damp conditions.

Connections to Your Audio System
When connecting the CDR 30, think of the process as if your were connecting a standard CD player and a tape or cassette recorder, with the addition of the digital connections.

Play-Deck Connections
The rear panel connections labeled "CDP" refer to the outputs of the **Play Deck 3**, which functions as a standard CD player. Connect the analog left/right **CDP Outputs ❶** to the CD inputs on your receiver, preamp or surround processor. For best playback results, a digital connection is recommended, using the **Coaxial ❹** or **Optical ❾ Outputs.** Connect them to the matching digital inputs of your receiver, preamp, processor or external digital decoder. Note that you may have to change a setting on the receiver or processor to link the digital input to the "CD" button or input selector. Consult the owner's manual on that device for details, as this configuration may vary from unit to unit.

Record-Deck Connections
The rear panel connections labeled "CDR" refer to the inputs and outputs for the **Record Deck 15**. Depending on the capabilities of your receiver, preamp or processor, you may find it convenient to connect the analog inputs and outputs to the jacks marked for a tape recorder. As the CDR 30's functions resemble those of a standard tape recorder, this might make it easier to select it as an input on your receiver or preamp. Connect the analog **CDR-Out Jacks ❷** to the Play/In jacks of a Tape or Aux input on your receiver or preamp. Connect the **CDR-In Jacks ❸** to the Tape Rec/Out jacks on your receiver or preamp.

To play the output of the Record Deck through the digital decoder in your receiver or an external processor, connect the **CDR Coaxial ❺** or **Optical ❽** digital outputs jacks to the matching digital-input jacks on your receiver or processor. Note that you may have to change a setting on the receiver or processor to link the digital input to the "Tape" button or the specific input selector associated with the digital inputs. Consult the owner's manual on your receiver or processor for details, as this configuration may vary from unit to unit.

To make recordings from external digital sources, such as a CD, DVD or MD player, connect the **CDR Coax-In Jacks ❻17** or **CDR Optical-In Jacks ❼16** on the CDR to the digital output jacks on your receiver or processor. If your receiver does not have digital-output jacks, you may connect the **CDR Coax-In Jacks ❻17** or **CDR Optical-In Jacks ❼16** on the CDR 30 directly to the digital outputs on your CD player or other digital device.

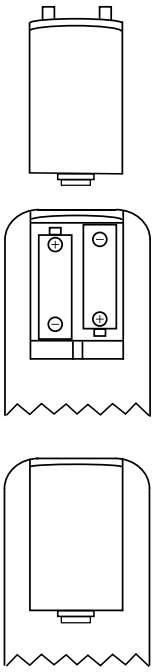
Connections to a portable digital CD or MD player may also be made by connecting the Coax Digital Output of the player to the front panel **Digital Input Jacks 16 17** on the CDR 30. Note that when both the front and rear panel digital inputs are connected to external sources, the CDR 30 will give priority to the front panel input. If it is impractical to disconnect the front panel input when you need to use the rear panel jack, simply turn off the device connected to the front panel input. This will stop the digital signal, and permit the rear panel jack to be used.

IMPORTANT NOTES ON DIGITAL CONNECTIONS:

Although digital-coax connections use the same type of "RCA" phono jack as standard analog signals, please take special care to connect digital signals only to digital jacks. In many cases, the digital jacks may be identified by an orange-colored insert ring around the center of the jack. When making digital connections, be sure to use coax-interconnect cables, such as the one supplied with the CDR 30 or cables intended for video applications. Even though they have the correct type of RCA connector, do not use audio-interconnect cables that have twisted-pair construction, as they are not appropriate for digital signal use. If you have any questions about the type of cables to use with the CDR 30, consult your dealer.

Installation and Connections

Batteries
Insert the two AA batteries supplied with the CDR 30's remote by turning the remote over so that the bottom of the remote is facing towards you. Gently lift the plastic tab on the battery cover up and away from you, and lift the lid off. Insert the batteries in the remote, being careful to follow the + and – polarity indications in the bottom of the compartment. Replace the cover by first seating the two small tabs into the mating holes at the top of the remote, and then gently push the cover down until the latch snaps into place with an audible click.



NOTE: When replacing batteries, it always a good idea to replace both at the same time. When the remote will not be used for an extended period of time, it is also a good idea to remove the batteries to avoid the possibility of damage due to corrosion. Batteries contain chemical substances and we recommend that you dispose of them properly and in compliance with any local regulations.

IR Remote Connections
If the CDR 30 is installed behind a cabinet or other obstruction that may block the path between the front panel **Remote Sensor** 30 and the location where you will use the remote, an optional external IR sensor may be used. Connect the sensor to the **Remote IR In Jack** ⓾ on the rear panel. This jack may also be connected to the IR Output jack of another compatible Harman Kardon component or a compatible IR system remote product.

You may also use the IR Sensor in the CDR 30 to send commands to other compatible remote products. Connect the **Remote IR Out Jack** ⓫ to the input of the other product or system.

Power Connections
Connect the **AC Power Cord** ❶ to an AC power source. The CDR 30 uses sensitive, high-performance computer-grade CD drives, and to protect them we recommend that you consider the use of a surge protector, just as you would for a computer.

If the rear panel AC outlet on a receiver or other product is used, make certain that it provides at least 28 watts, and that the total power of all products connected does not exceed the maximum rated output of the product containing the outlets. If the CDR 30 is connected to a switched outlet, remember to turn on the outlet or product controlling it in order for the CDR 30 to operate.

Troubleshooting Guide and Error Messages

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Unit does not operate when Standby switch or remote Power-On is pressed	• No AC power • Main Power Switch is off	• Make certain AC power cord is plugged into a live outlet • Check to see whether AC outlet is switch-controlled • Turn on Main Power
Remote does not function	• Wrong deck selected • Dead batteries • Sensor blocked	• Press the CDP button to control the Play Deck; press the CDR button to control the Record Deck • Replace both batteries • Remove obstructions from front panel or connect a remote sensor to the Remote-In Jack
Disc does not erase	• CD-R disc in use	• CD-R discs do not erase, only CD-RW discs may be erased
Recorded CD-R disc does not play in another CD player or DISC ERROR message appears in Play Deck	• CD-R disc not finalized	• Finalize the CD-R disc in the CDR 30's Record Deck (see page 23)
Recording suddenly stops	• Input source stopped or paused	• Recordings will stop when the input source is paused for more than 5 seconds for digital recordings and 10 seconds for analog recordings

ERROR MESSAGES

ERROR MESSAGE	EXPLANATION AND PROBABLE CAUSE	SOLUTION
CHECK DISC	• A record-related button has been pressed when a Finalized disc is in the Record Deck 15 • A record-related button has been pressed when a standard CD is in the Record Deck 15	• Unfinalize the disc to add tracks to a CD-RW disc • Replace the disc with a blank CD-R or CD-RW disc • Replace the disc with a blank CD-R or CD-RW disc
DATA DISC	• A non-audio CD-ROM or a CD-Video disc has been placed in the machine	• Only CD Audio, DTS and MP3 discs will play in the CDR 30; replace the disc
DISC ERROR	• An unfinalized disc has been placed in the Play Deck 3 • A DVD disc has been placed in the unit	• Finalize the disc (see page 23) • Replace the disc; the CDR 30 does not play or dub DVD discs
DISC FULL	• There are only four seconds of record time remaining on the disc being recorded	• Use another blank CD-R or CD-RW disc • Erase one or more tracks on a CD-RW disc
ERROR	• The disc is not seated properly • There is a problem with the disc	• Open the drawer and check to see that the disc is properly seated • Try another disc
FAILED	• A dub has not been completed properly	• Check the play disc • Repeat the dub process
FULL	• More than 99 tracks have been recorded	• The CDR 30 does not record more than 99 tracks on a disc
NO AUDIO	• A record-related button has been pressed when a non-audio disc is in the Record Drawer 15	• Replace the disc with a blank CD-R or CD-RW audio disc
SVC-1	• There is an internal problem with the CDR 30	• Contact an authorized Harman Kardon service depot

Notice - Important information regarding the use of the harman/kardon CDR 30.

1) Complaint: "I cannot record at x2 or x4 speed. Unit switched back to 1x speed"

Possible explanations:

a) Programmed play only records at x1 speed. *You cannot record at x2 or x4 speeds when programmed dub is attempted (to record only certain tracks on a CD*)
b) Some brands of CDR do not allow recording at x2 or x4 speed. *Try another major brand – Maxell, Memorex, Sony,TDK. See list below*.
c) Disc might be a copy - even a counterfeit disc – this will prevent recording at speeds greater than 1X. *Try recording off a new store-bought CD you know is not a copy*.

2) Due to slight variations in the manufacture of blank CD-R/RW audio discs, and for optimum performance of your CD recorder, harman/kardon recommends that you use blank recording discs manufactured by the following companies:

Products from these brands have been tested and certified for use with the CDR 30. While discs from other brands may also work, we cannot guarantee proper operation of the unit when they are used.

Recommended CD-R Audio Disc Manufacturers:

TDK Electronics Corporation	Maxell Corporation of America
LG Electronics, Inc.	Mitsubishi Electric & Electronics USA, Inc.
Ricoh Company, Ltd.	Philips Electronics North America
Memorex	Axia

Recommended CD-RW Audio Disc Manufacturers:

TDK Electronics Corporation	Fuji Photo Film, U.S.A., Inc.
LG Electronics, Inc.	Memorex
Philips Electronics North America	Samsung Electronics Co., Ltd.
Ricoh Company, Ltd.	Axia
SANYO-Verbatim CD Company	SKC America, Inc.
ZeroOne	Mitsubishi Electric & Electronics USA, Inc
Maxell Corporation of America	

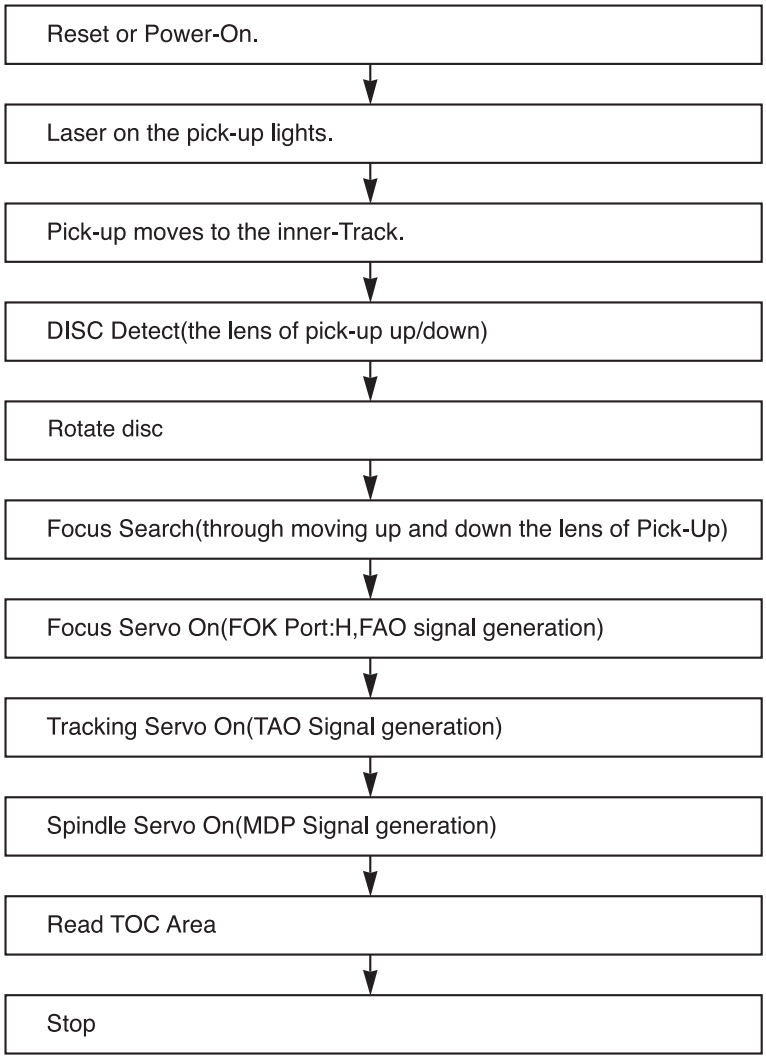
NOTE: The names shown above are the primary manufacturers, who may also produce discs for other brand names. When in doubt as to the origin of a disc, check with the brand shown on the package.

3) **When a CD Audio disc is recorded on a computer, it is often possible to record a set of tracks, finalize the disc, and then add additional tracks and finalize the disc again in a second recording session.** This produces what is called a "multi-session" disc. Please note that these discs will work properly when played back on a computer, or on the CDR 30's Record (CDR) deck. However, due to differences in the way CDs are played back on computers, as opposed to consumer CD Audio players, multi-session discs will NOT play back properly on the CDR 30's Play (CDP) deck, or on most consumer CD players. When a multi-session disc is played in the CDP deck, only the tracks in the first session will play. This is not a defect or problem with the CDR 30, but is due to differences in the formats between computer recordings and CD Audio products or commercially recorded CDs.

4) **The CDR 30 prohibits the track incrementing function during the first six seconds for each track during recording**. Thus, if a source track is less than six seconds long, it will be recorded, but it will not be assigned a track number. The track with less than six seconds will be combined into the next track number that is recorded on the disc. This feature prevents the recording of empty tracks when the source signal was not cued up to start playing at the same time a recording session begins.

TROUBLESHOOTING GUIDE FOR CD-P BOARD

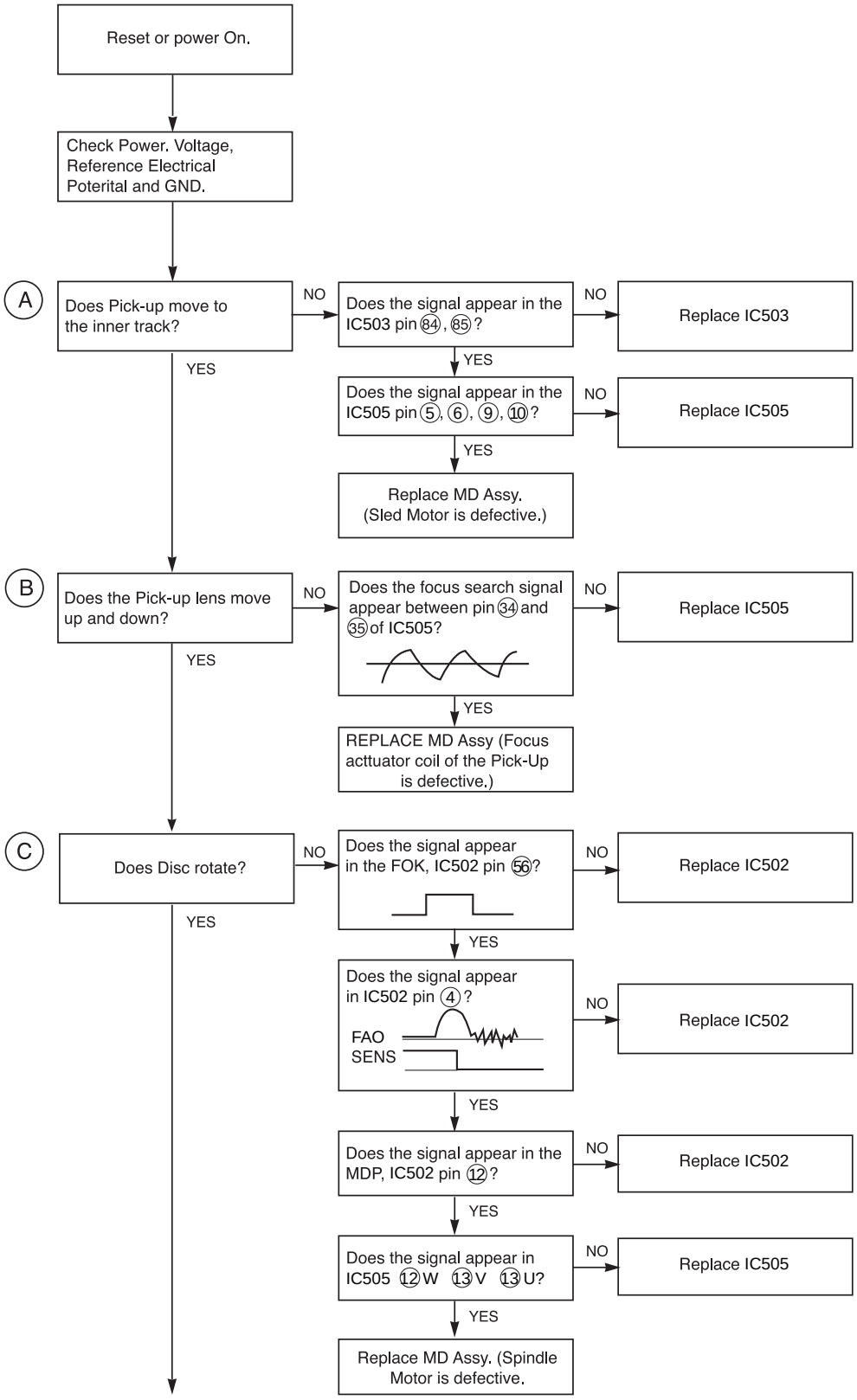
1. Initial Lead-in Operation

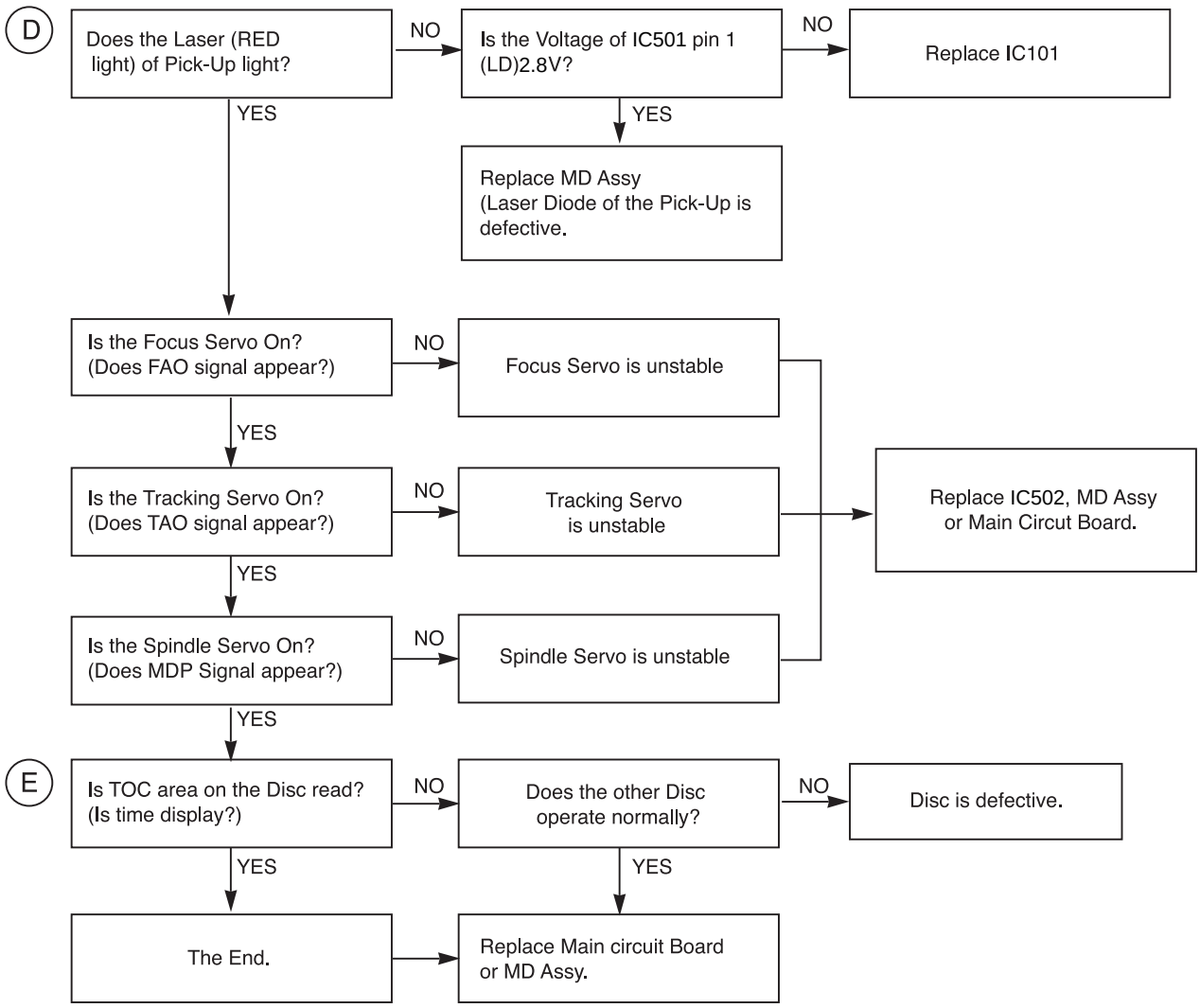


2. Trouble List(Circuit)

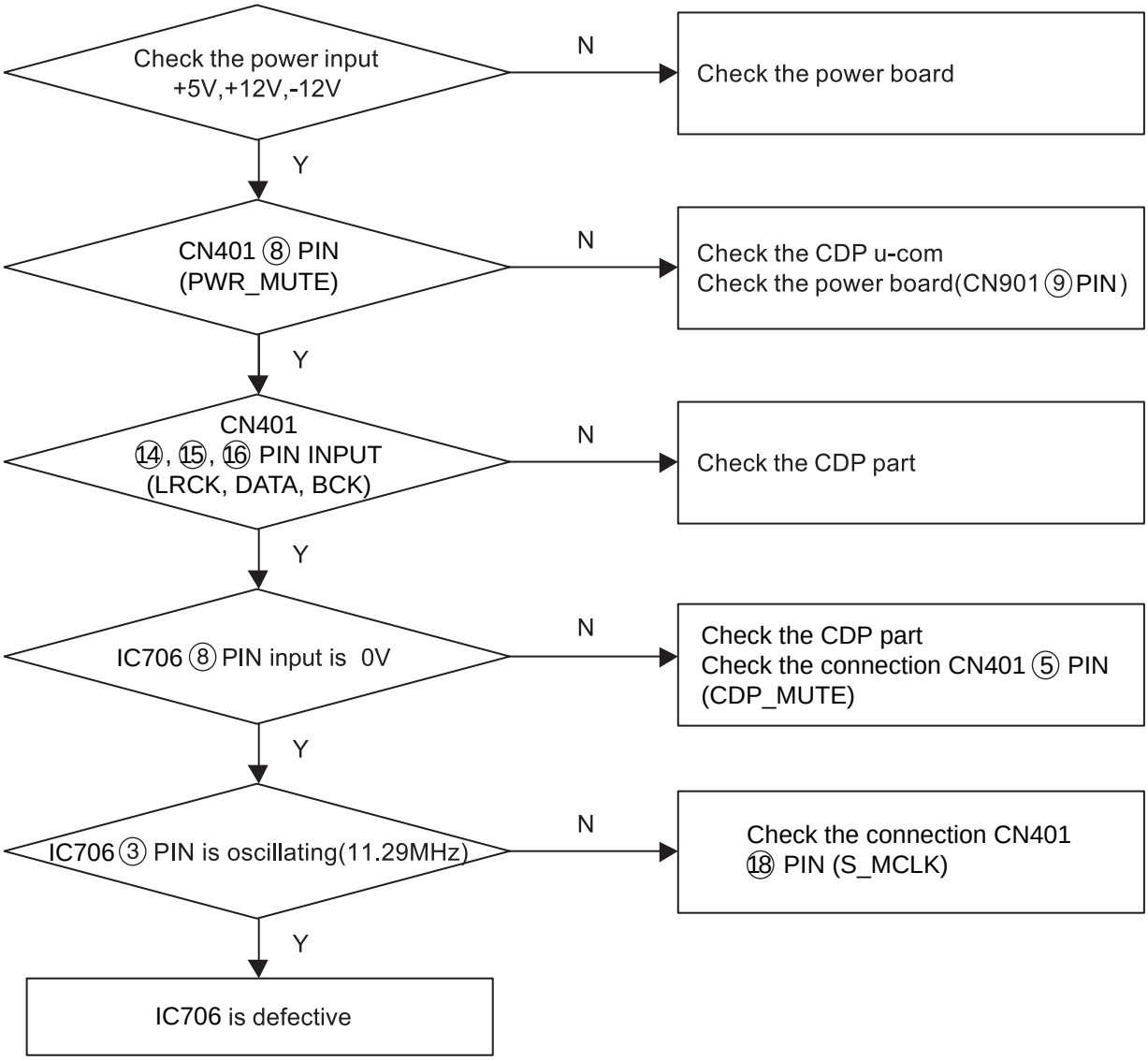
(In the Initial Lead-in Operation Mode)
A. Pick-Up doesn't move to the inner-track.
B. Pick-Up lens doesn't move up and down.
C. Disc doesn't rotate.
D. The Laser(RED) of Pick-Up doesn't light.
E. TOC isn't read.

3. Troubleshooting Guide(In the Initial Lead-in Operation Mode)

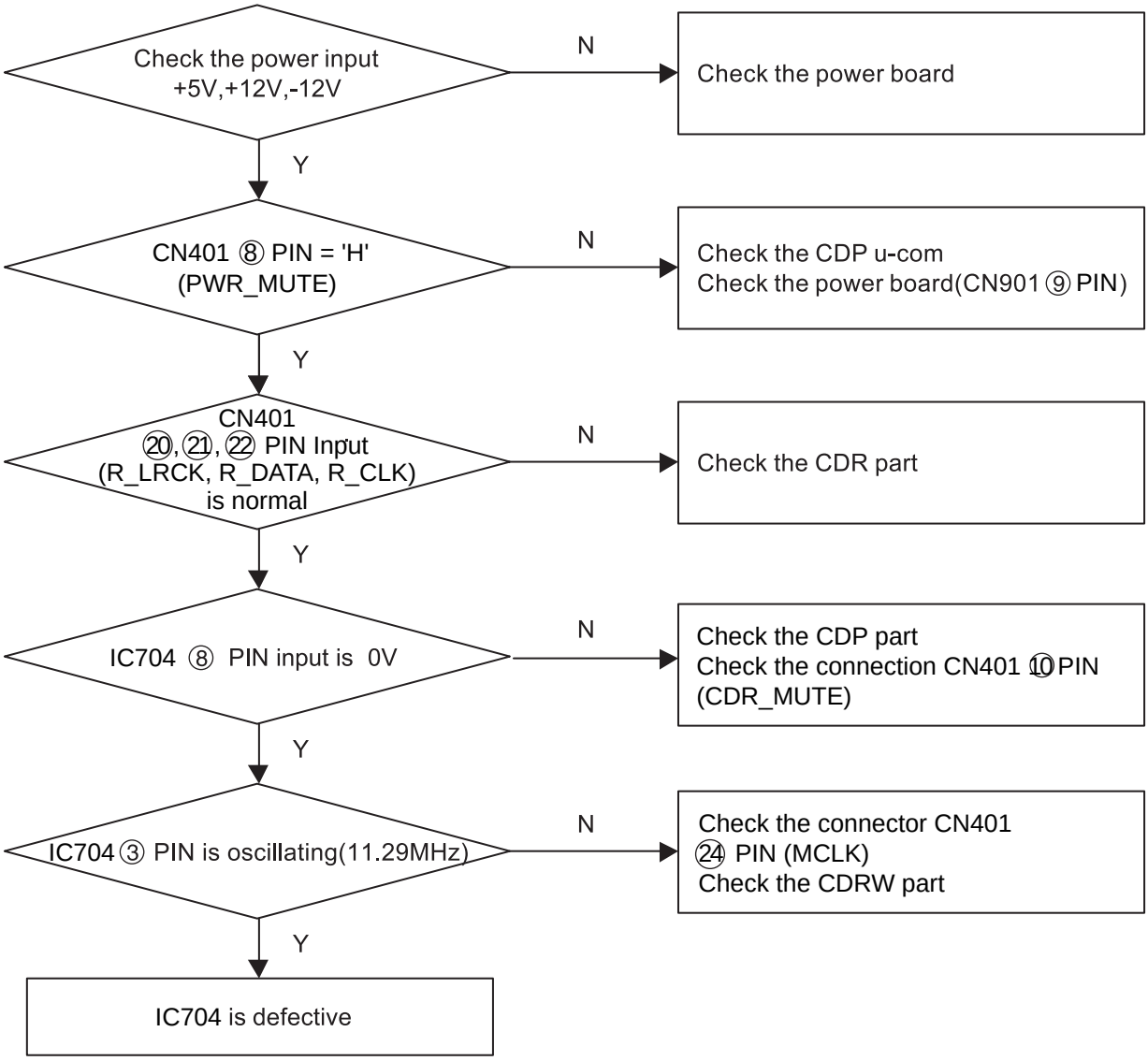



D
Does the Laser (RED light) of Pick-Up light?
NO
Is the Voltage of IC501 pin 1 (LD)2.8V?
NO
Replace IC101
YES
YES
Replace MD Assy (Laser Diode of the Pick-Up is defective.
Is the Focus Servo On? (Does FAO signal appear?)
NO
Focus Servo is unstable
YES
Is the Tracking Servo On? (Does TAO signal appear?)
NO
Tracking Servo is unstable
Replace IC502, MD Assy or Main Circut Board.
YES
Is the Spindle Servo On? (Does MDP Signal appear?)
NO
Spindle Servo is unstable
YES
E
Is TOC area on the Disc read? (Is time display?)
NO
Does the other Disc operate normally?
NO
Disc is defective.
YES
YES
The End.
Replace Main circuit Board or MD Assy.

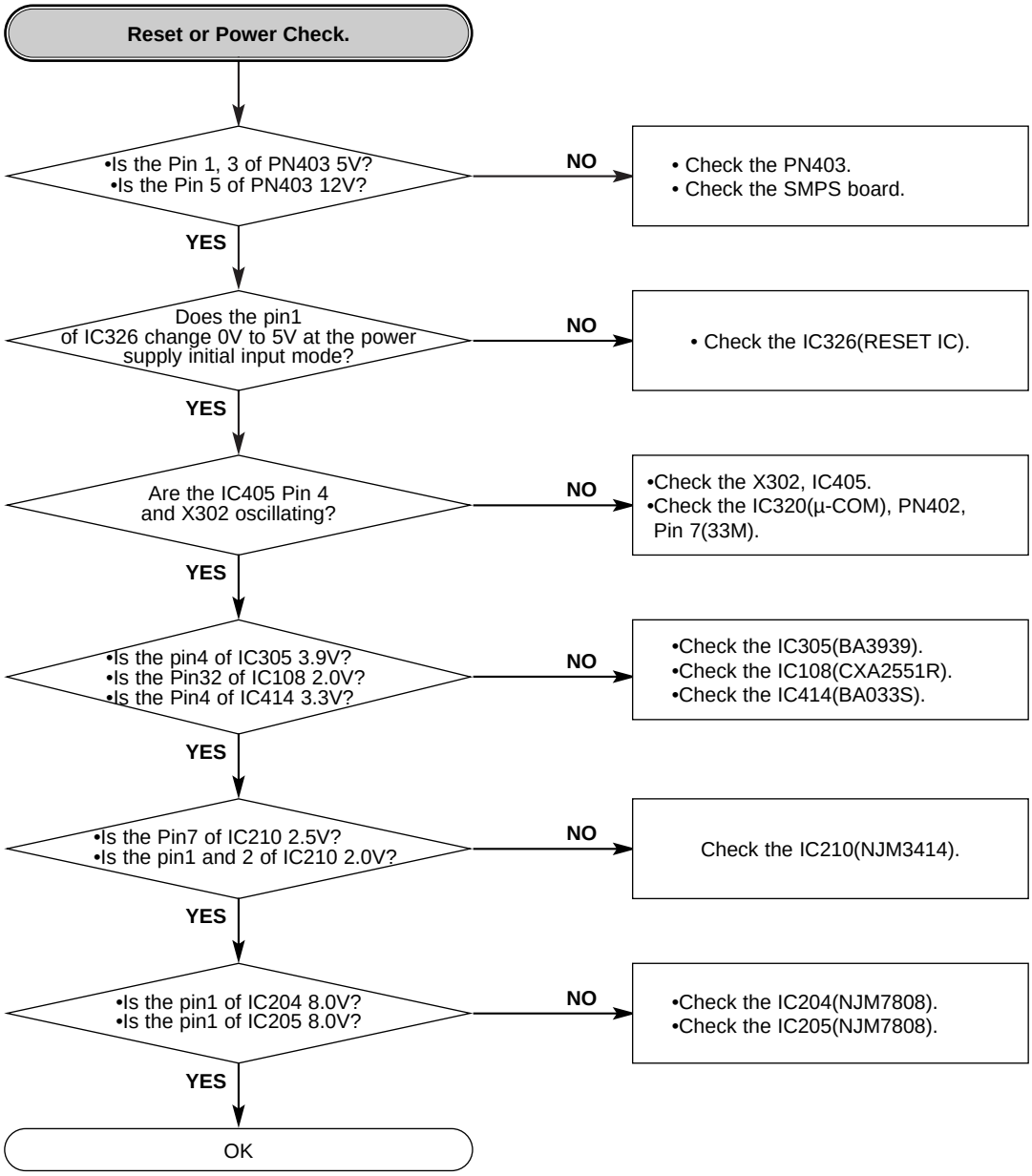
NO AUDIO(CDP JACK) *CURRENT DECK IS CDP*

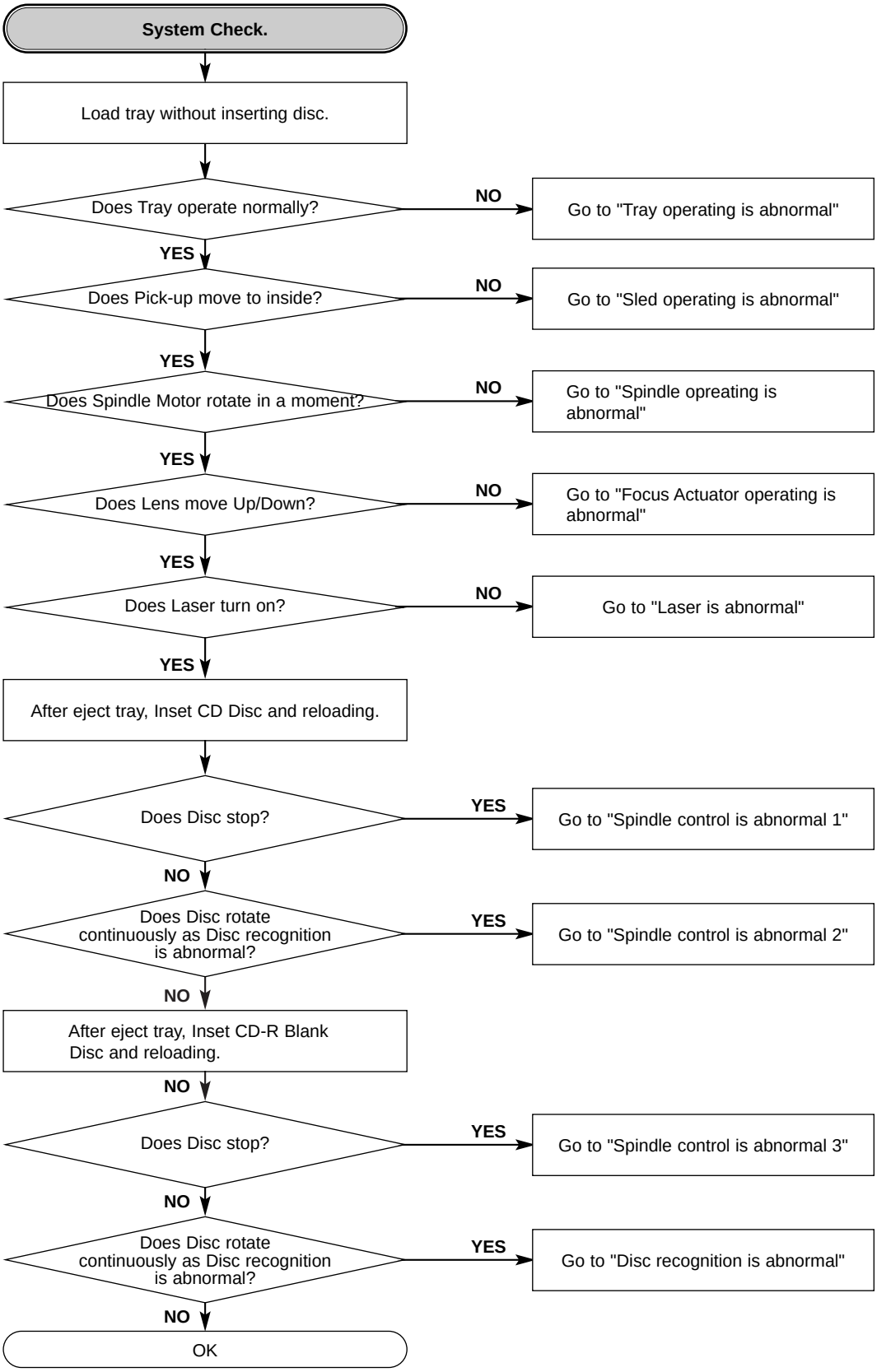


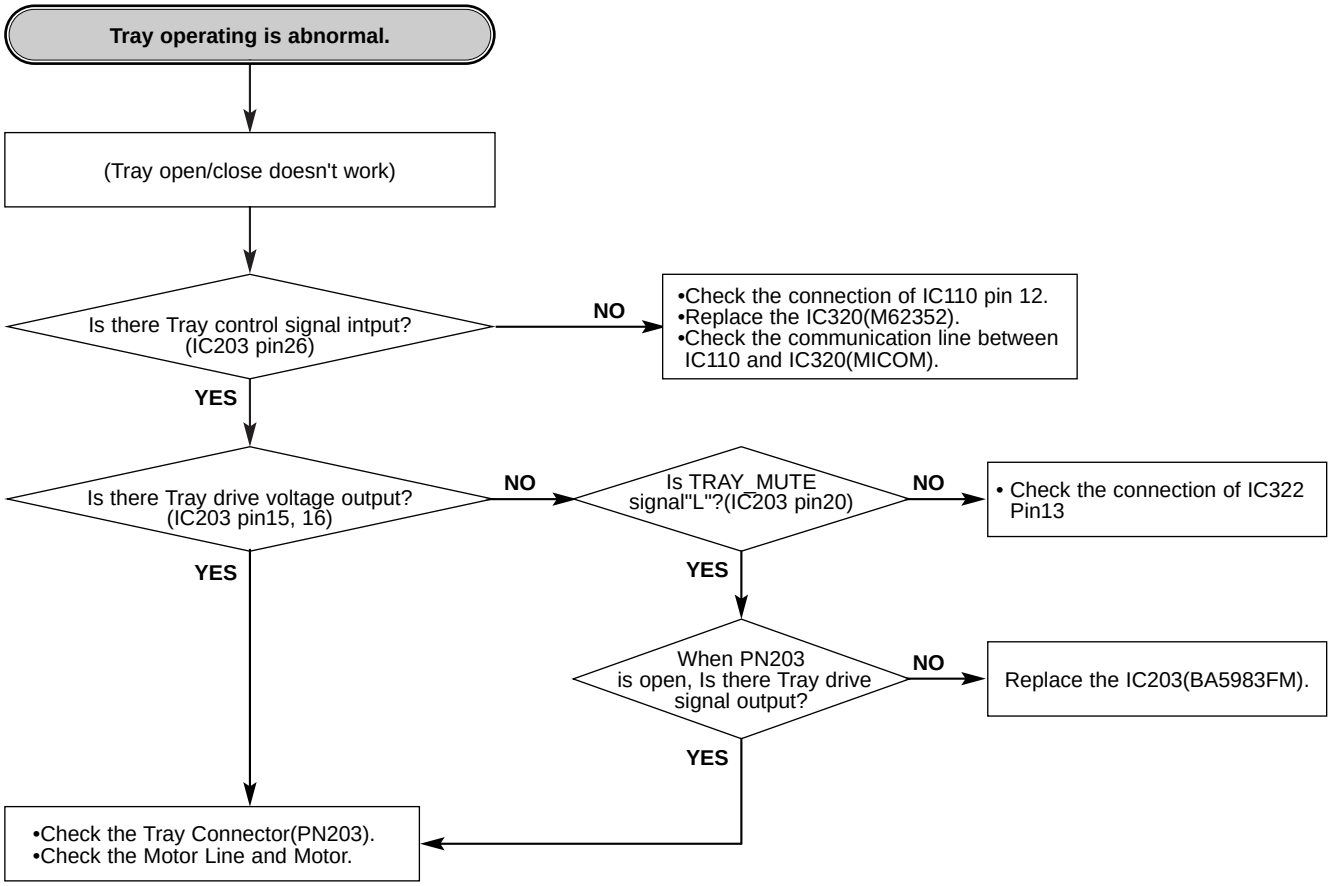
NO AUDIO(CDP JACK) *CURRENT DECK IS CDR*

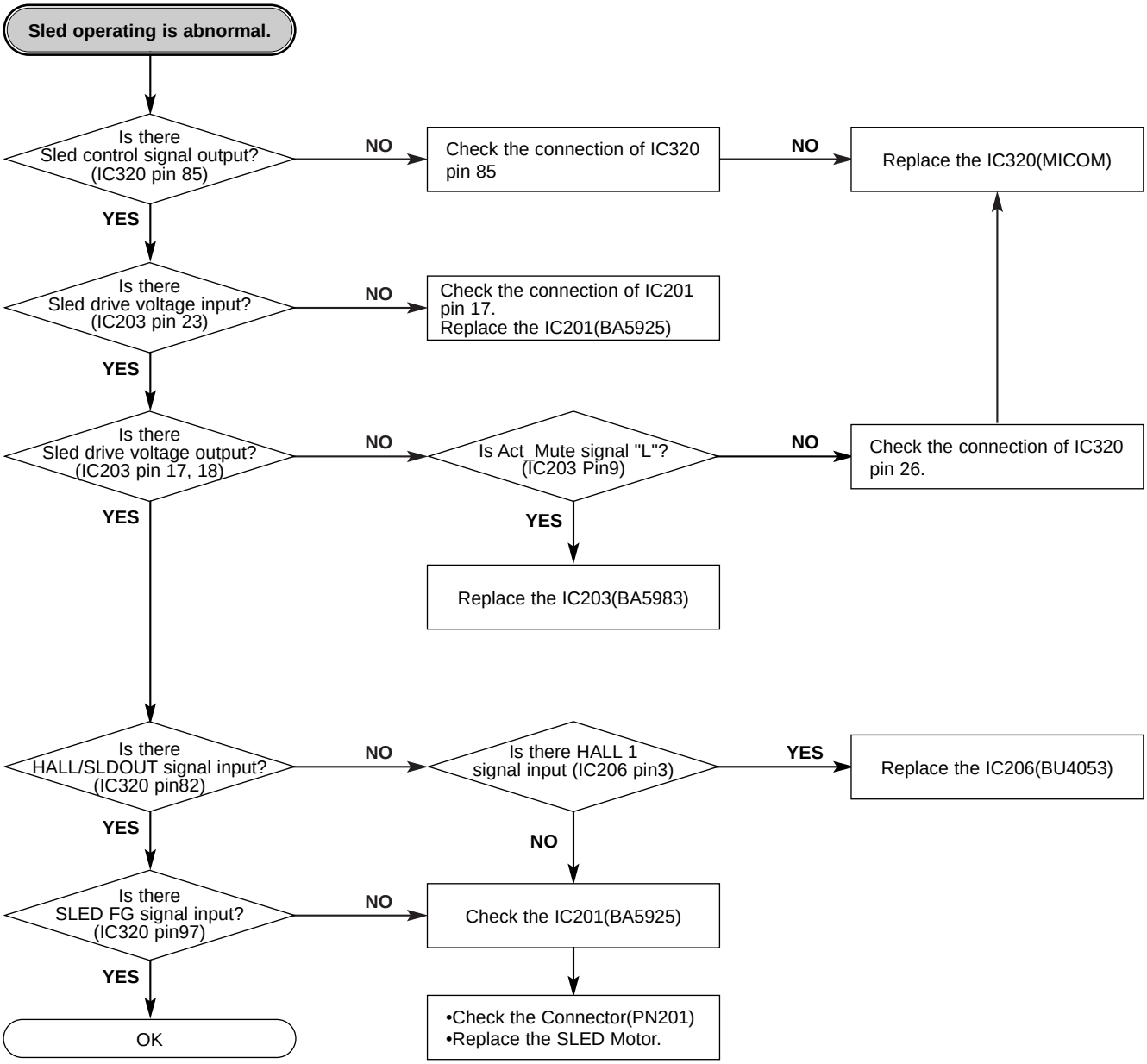


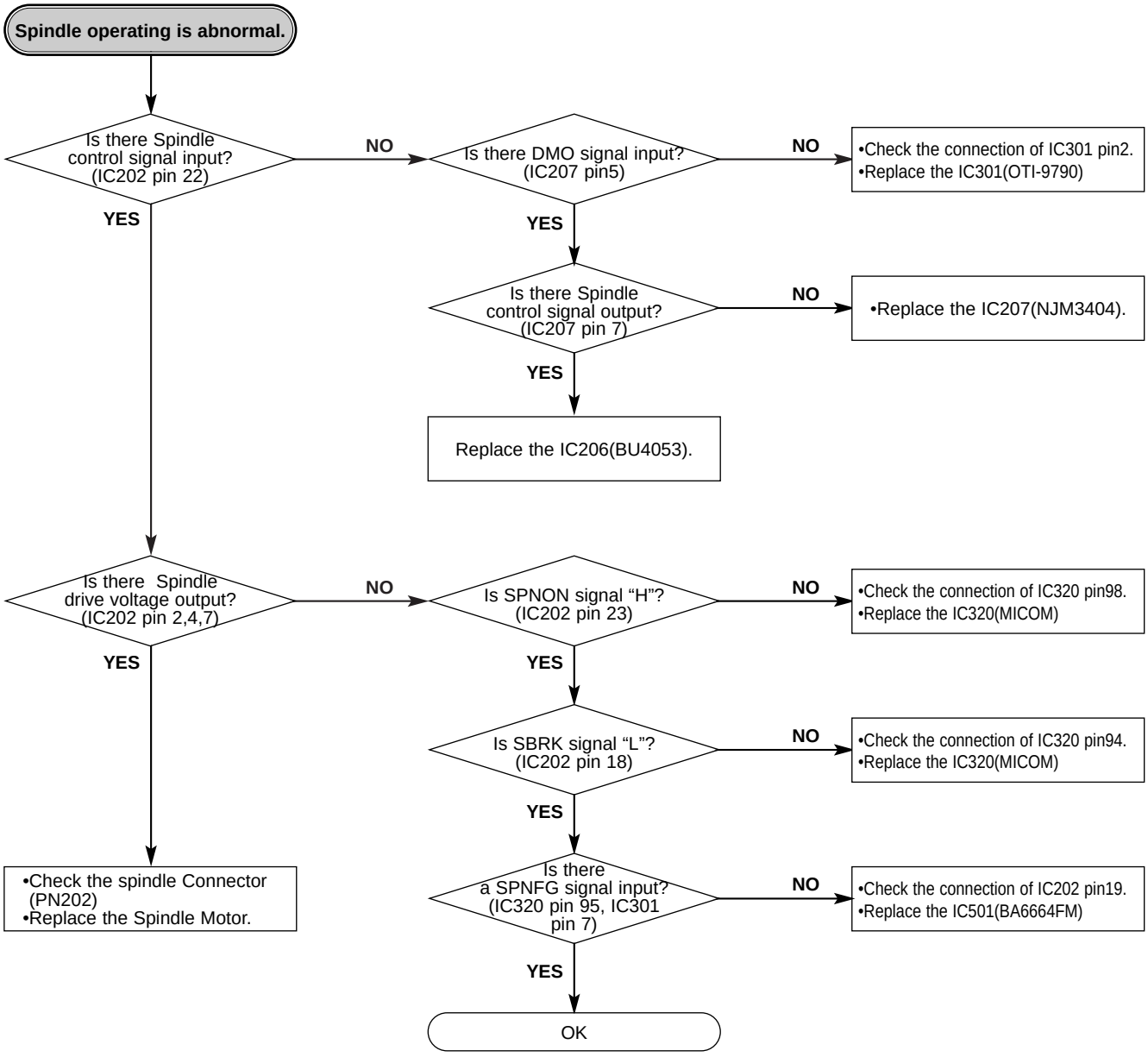
TROUBLESHOOTING GUIDE FOR CD-RW BOARD

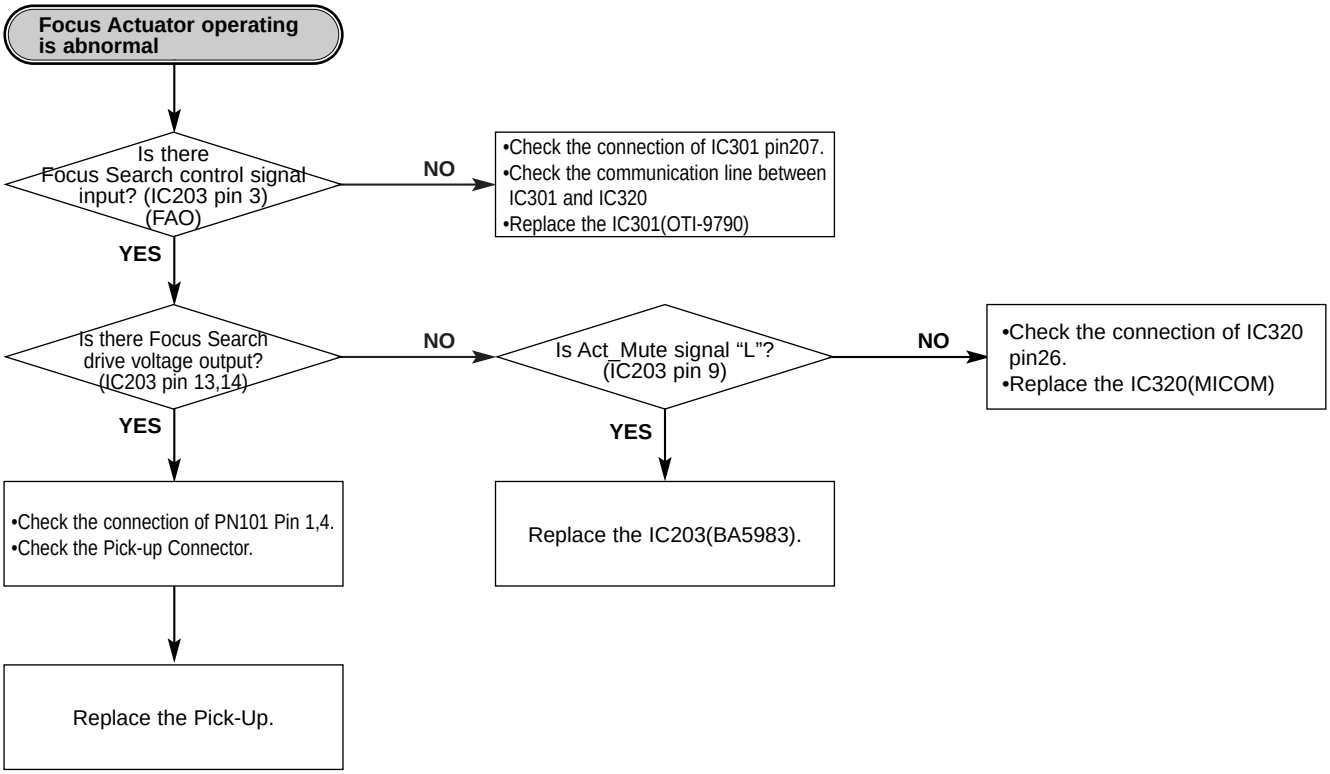


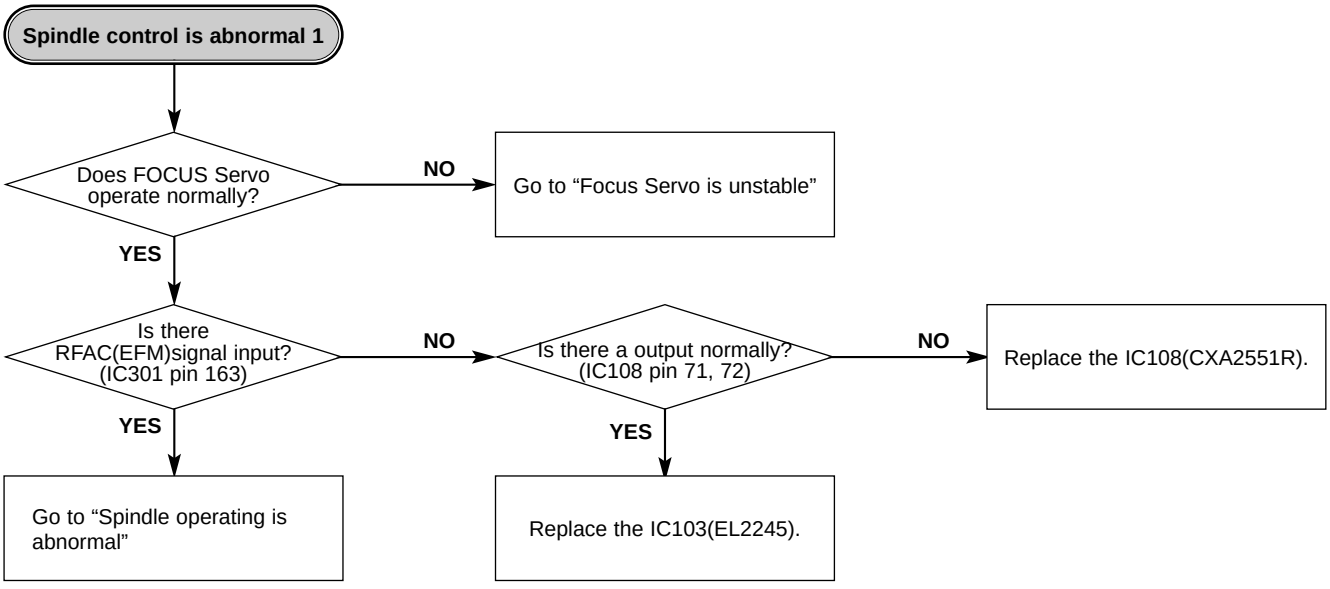

System Check.
Load tray without inserting disc.
Does Tray operate normally?
NO
Go to "Tray operating is abnormal"
YES
Does Pick-up move to inside?
NO
Go to "Sled operating is abnormal"
YES
Does Spindle Motor rotate in a moment?
NO
Go to "Spindle opreating is abnormal"
YES
Does Lens move Up/Down?
NO
Go to "Focus Actuator operating is abnormal"
YES
Does Laser turn on?
NO
Go to "Laser is abnormal"
YES
After eject tray, Inset CD Disc and reloading.
Does Disc stop?
YES
Go to "Spindle control is abnormal 1"
NO
Does Disc rotate continuously as Disc recognition is abnormal?
YES
Go to "Spindle control is abnormal 2"
NO
After eject tray, Inset CD-R Blank Disc and reloading.
NO
Does Disc stop?
YES
Go to "Spindle control is abnormal 3"
NO
Does Disc rotate continuously as Disc recognition is abnormal?
YES
Go to "Disc recognition is abnormal"
NO
OK

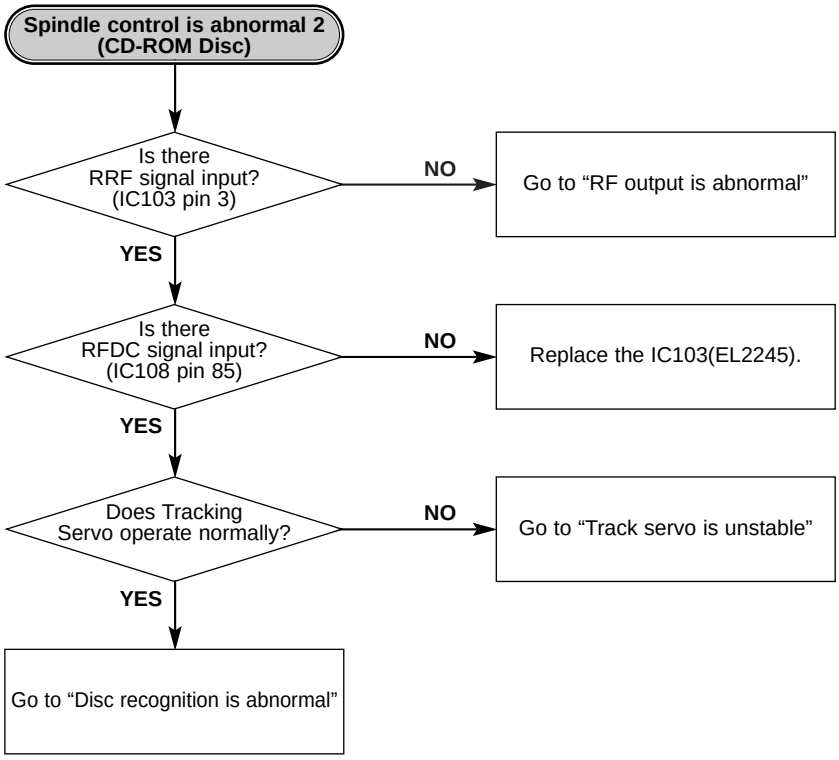

Tray operating is abnormal.
(Tray open/close doesn't work)
Is there Tray control signal intput?
(IC203 pin26)
NO
•Check the connection of IC110 pin 12.
•Replace the IC320(M62352).
•Check the communication line between
IC110 and IC320(MICOM).
YES
Is there Tray drive voltage output?
(IC203 pin15, 16)
NO
Is TRAY_MUTE
signal"L"?(IC203 pin20)
NO
• Check the connection of IC322
Pin13
YES
YES
When PN203
is open, Is there Tray drive
signal output?
NO
Replace the IC203(BA5983FM).
YES
•Check the Tray Connector(PN203).
•Check the Motor Line and Motor.

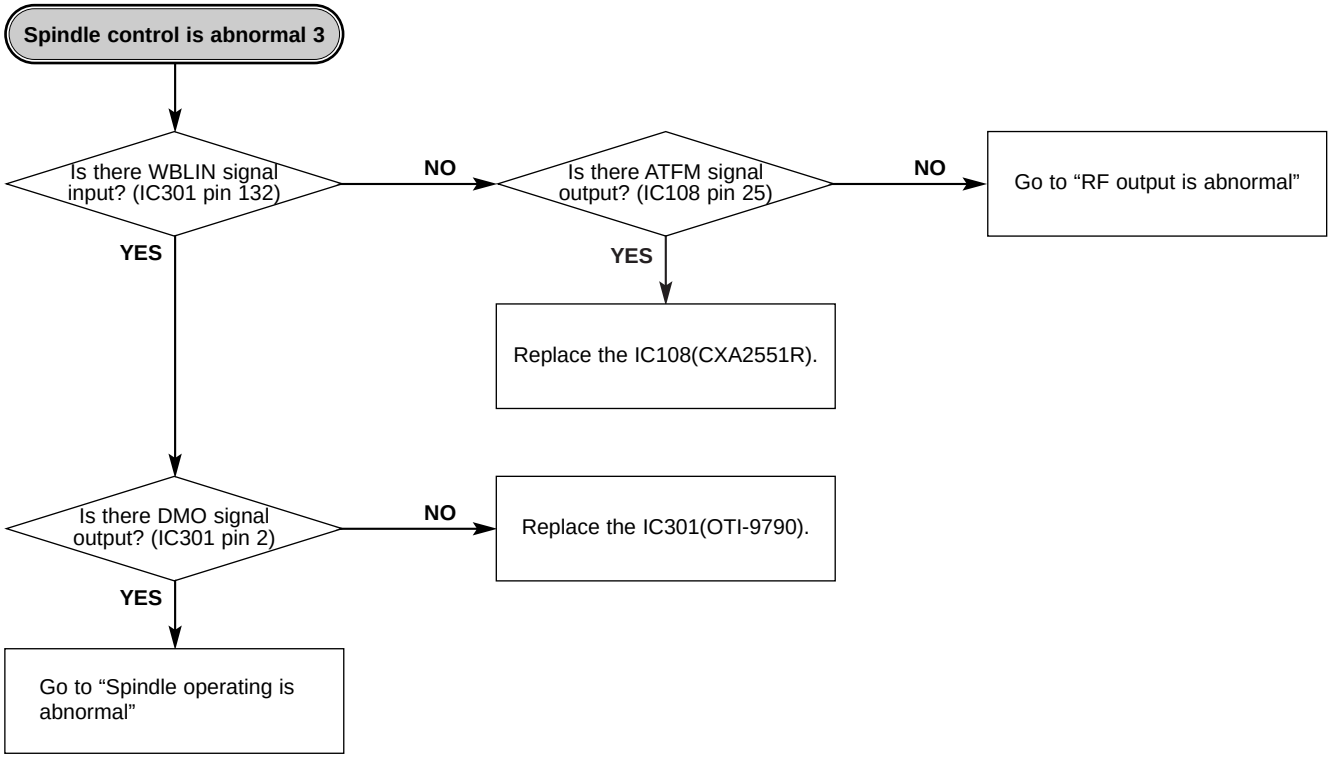

Sled operating is abnormal.
Is there Sled control signal output? (IC320 pin 85)
NO
Check the connection of IC320 pin 85
NO
Replace the IC320(MICOM)
YES
Is there Sled drive voltage input? (IC203 pin 23)
NO
Check the connection of IC201 pin 17. Replace the IC201(BA5925)
YES
Is there Sled drive voltage output? (IC203 pin 17, 18)
NO
Is Act_Mute signal "L"? (IC203 Pin9)
NO
Check the connection of IC320 pin 26.
YES
YES
Replace the IC203(BA5983)
Is there HALL/SLDOUT signal input? (IC320 pin82)
NO
Is there HALL 1 signal input (IC206 pin3)
YES
Replace the IC206(BU4053)
YES
NO
Is there SLED FG signal input? (IC320 pin97)
NO
Check the IC201(BA5925)
YES
•Check the Connector(PN201) •Replace the SLED Motor.
OK

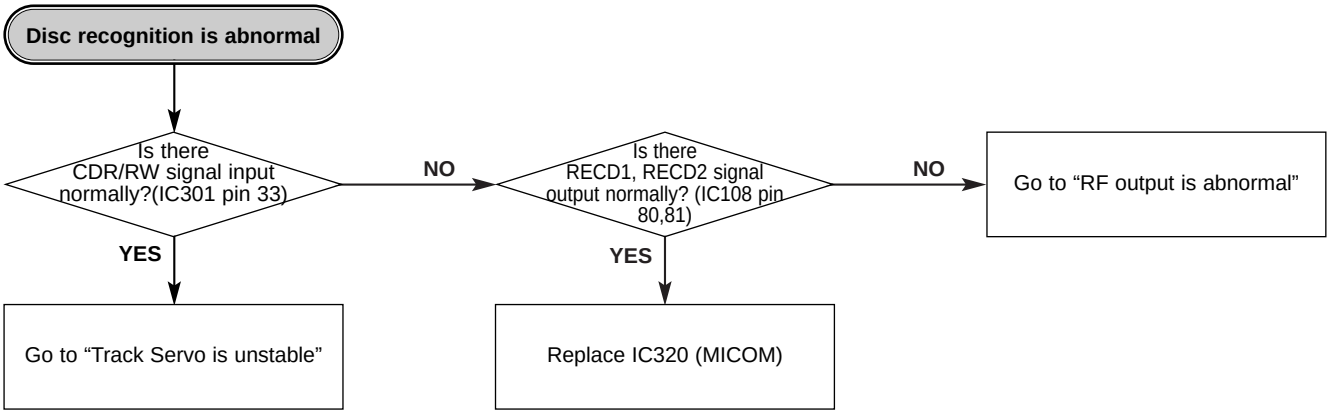

Spindle operating is abnormal.
Is there Spindle control signal input? (IC202 pin 22)
NO
Is there DMO signal input? (IC207 pin5)
NO
•Check the connection of IC301 pin2.
•Replace the IC301(OTI-9790)
YES
YES
Is there Spindle control signal output? (IC207 pin 7)
NO
•Replace the IC207(NJM3404).
YES
Replace the IC206(BU4053).
Is there Spindle drive voltage output? (IC202 pin 2,4,7)
NO
Is SPNON signal “H”? (IC202 pin 23)
NO
•Check the connection of IC320 pin98.
•Replace the IC320(MICOM)
YES
YES
Is SBRK signal “L”? (IC202 pin 18)
NO
•Check the connection of IC320 pin94.
•Replace the IC320(MICOM)
YES
•Check the spindle Connector (PN202)
•Replace the Spindle Motor.
Is there a SPNFG signal input? (IC320 pin 95, IC301 pin 7)
NO
•Check the connection of IC202 pin19.
•Replace the IC501(BA6664FM)
YES
OK

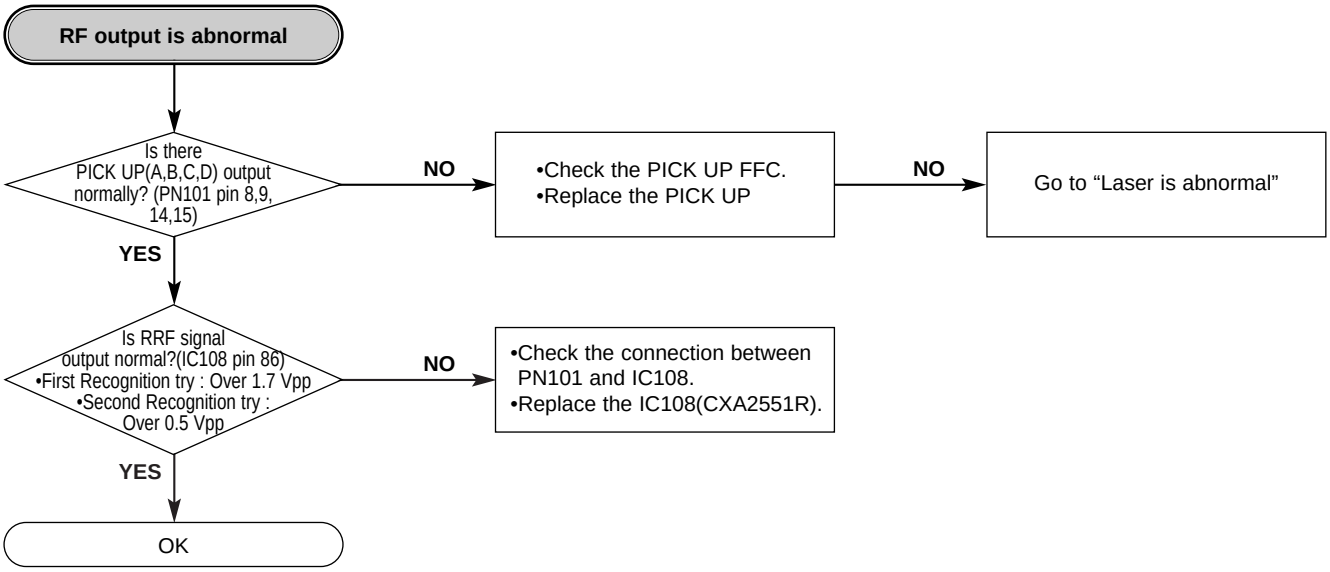

Focus Actuator operating is abnormal
Is there Focus Search control signal input? (IC203 pin 3) (FAO)
NO
•Check the connection of IC301 pin207.
•Check the communication line between IC301 and IC320
•Replace the IC301(OTI-9790)
YES
Is there Focus Search drive voltage output? (IC203 pin 13,14)
NO
Is Act_Mute signal "L"? (IC203 pin 9)
NO
•Check the connection of IC320 pin26.
•Replace the IC320(MICOM)
YES
YES
•Check the connection of PN101 Pin 1,4.
•Check the Pick-up Connector.
Replace the IC203(BA5983).
Replace the Pick-Up.

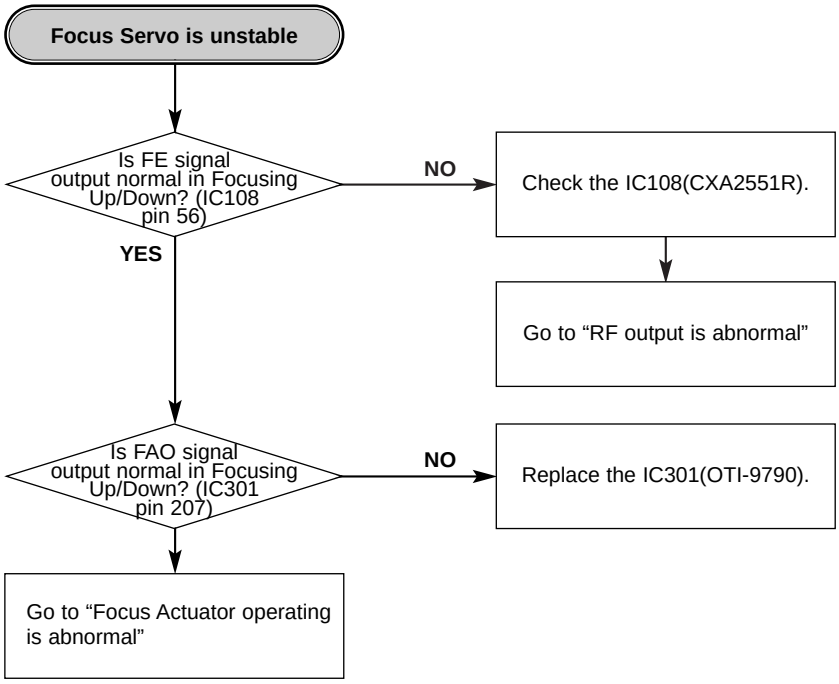

Spindle control is abnormal 1
Does FOCUS Servo operate normally?
NO
Go to "Focus Servo is unstable"
YES
Is there RFAC(EFM)signal input? (IC301 pin 163)
NO
Is there a output normally? (IC108 pin 71, 72)
NO
Replace the IC108(CXA2551R).
YES
YES
Go to "Spindle operating is abnormal"
Replace the IC103(EL2245).

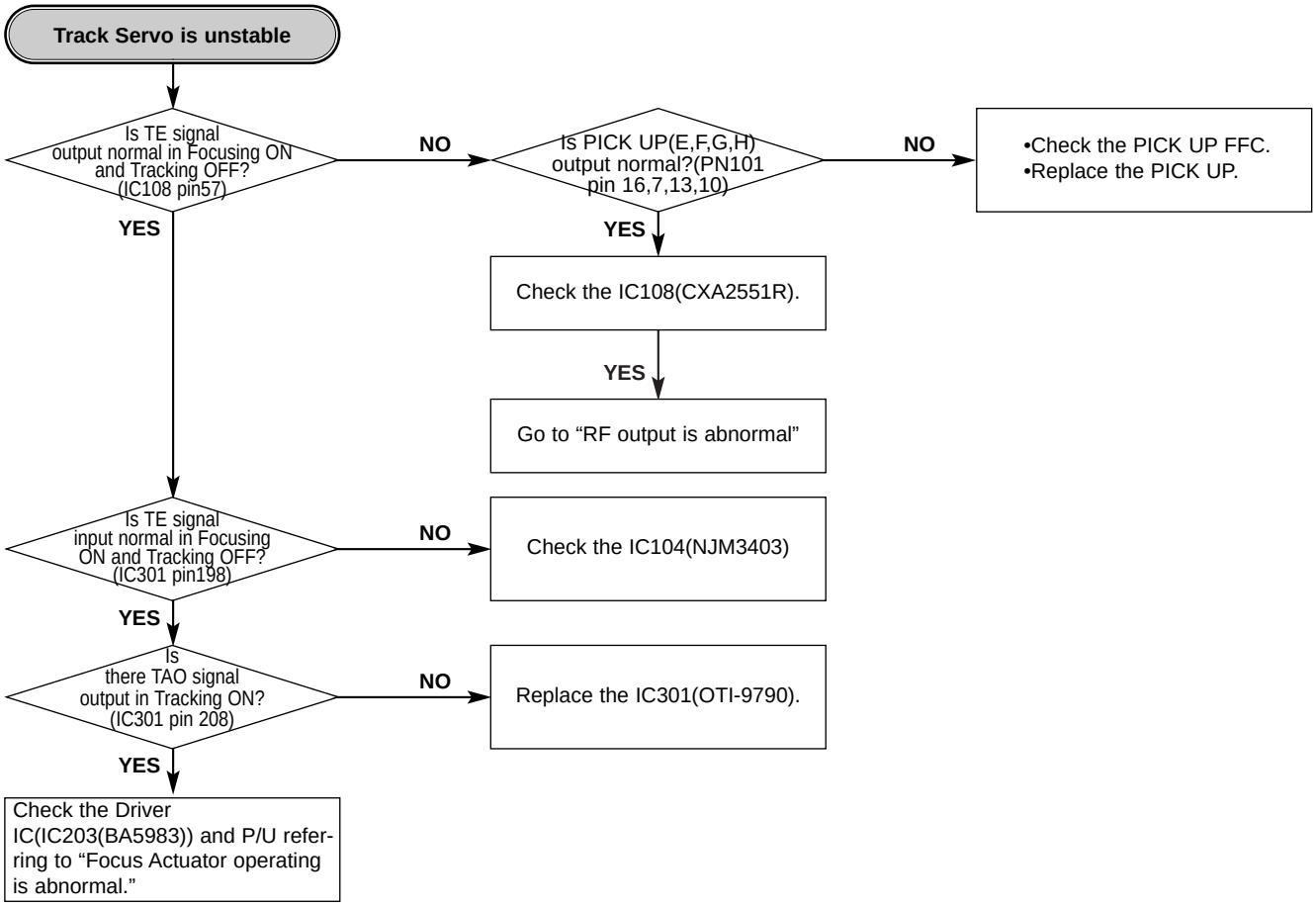

Spindle control is abnormal 2
(CD-ROM Disc)
Is there
RRF signal input?
(IC103 pin 3)
NO
Go to “RF output is abnormal”
YES
Is there
RFDC signal input?
(IC108 pin 85)
NO
Replace the IC103(EL2245).
YES
Does Tracking
Servo operate normally?
NO
Go to “Track servo is unstable”
YES
Go to “Disc recognition is abnormal”

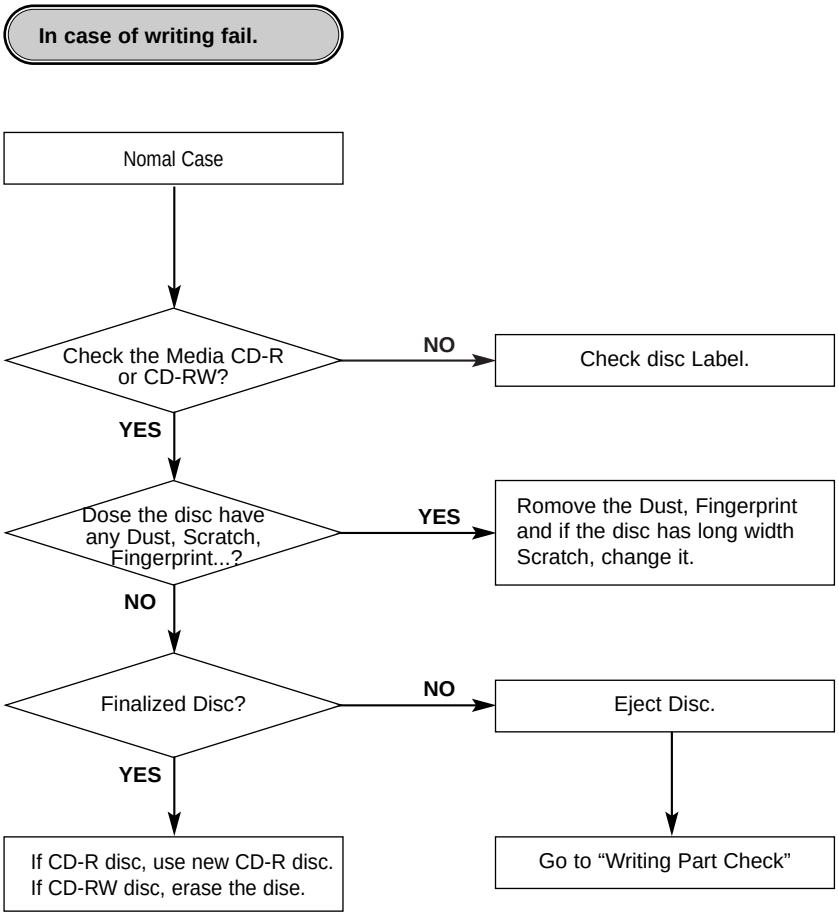

Spindle control is abnormal 3
Is there WBLIN signal
input? (IC301 pin 132)
NO
Is there ATFM signal
output? (IC108 pin 25)
NO
Go to “RF output is abnormal”
YES
YES
Replace the IC108(CXA2551R).
Is there DMO signal
output? (IC301 pin 2)
NO
Replace the IC301(OTI-9790).
YES
Go to “Spindle operating is
abnormal”

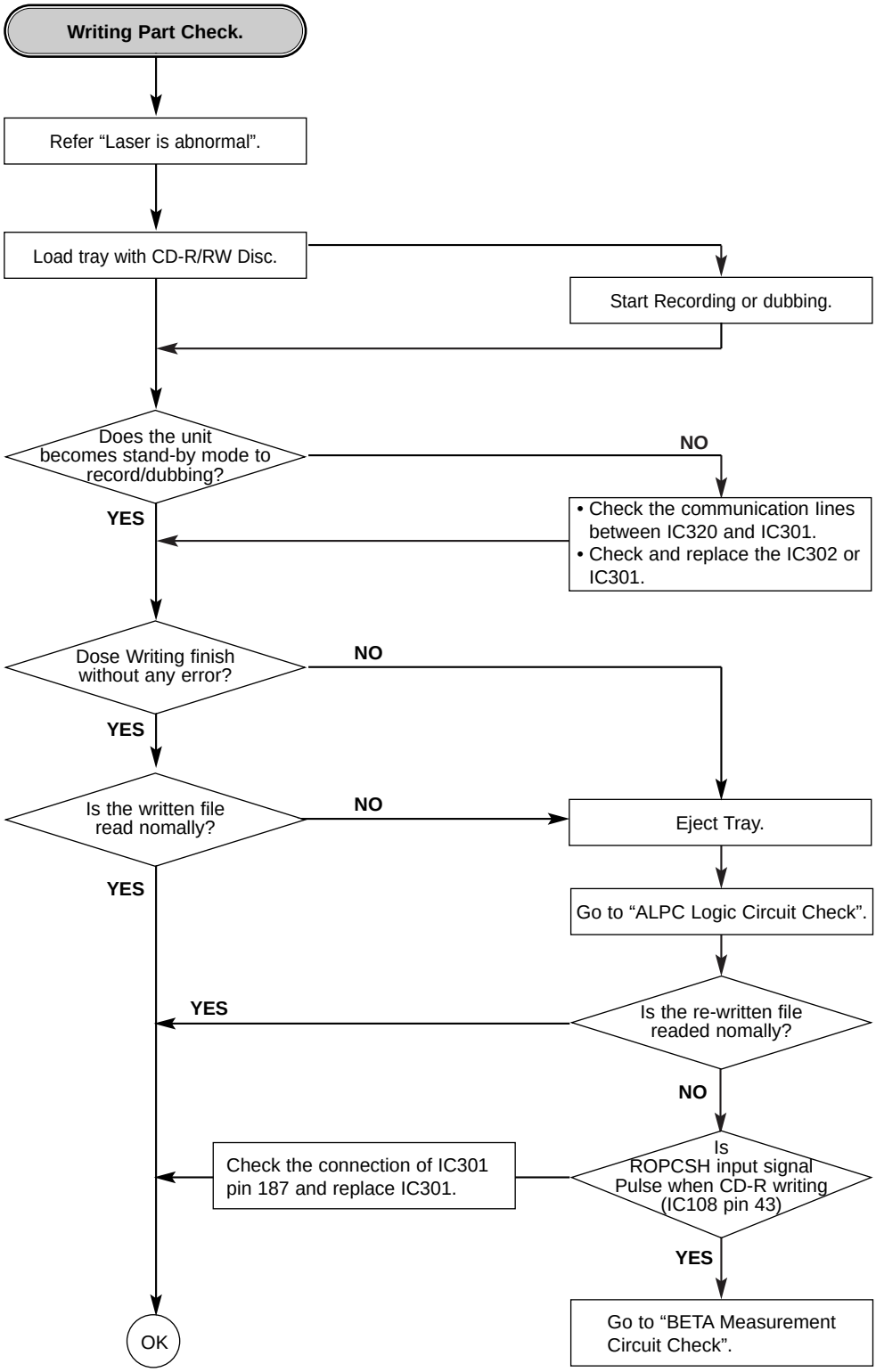

Disc recognition is abnormal
Is there CDR/RW signal input normally?(IC301 pin 33)
NO
Is there RECD1, RECD2 signal output normally? (IC108 pin 80,81)
NO
Go to “RF output is abnormal”
YES
YES
Go to “Track Servo is unstable”
Replace IC320 (MICOM)

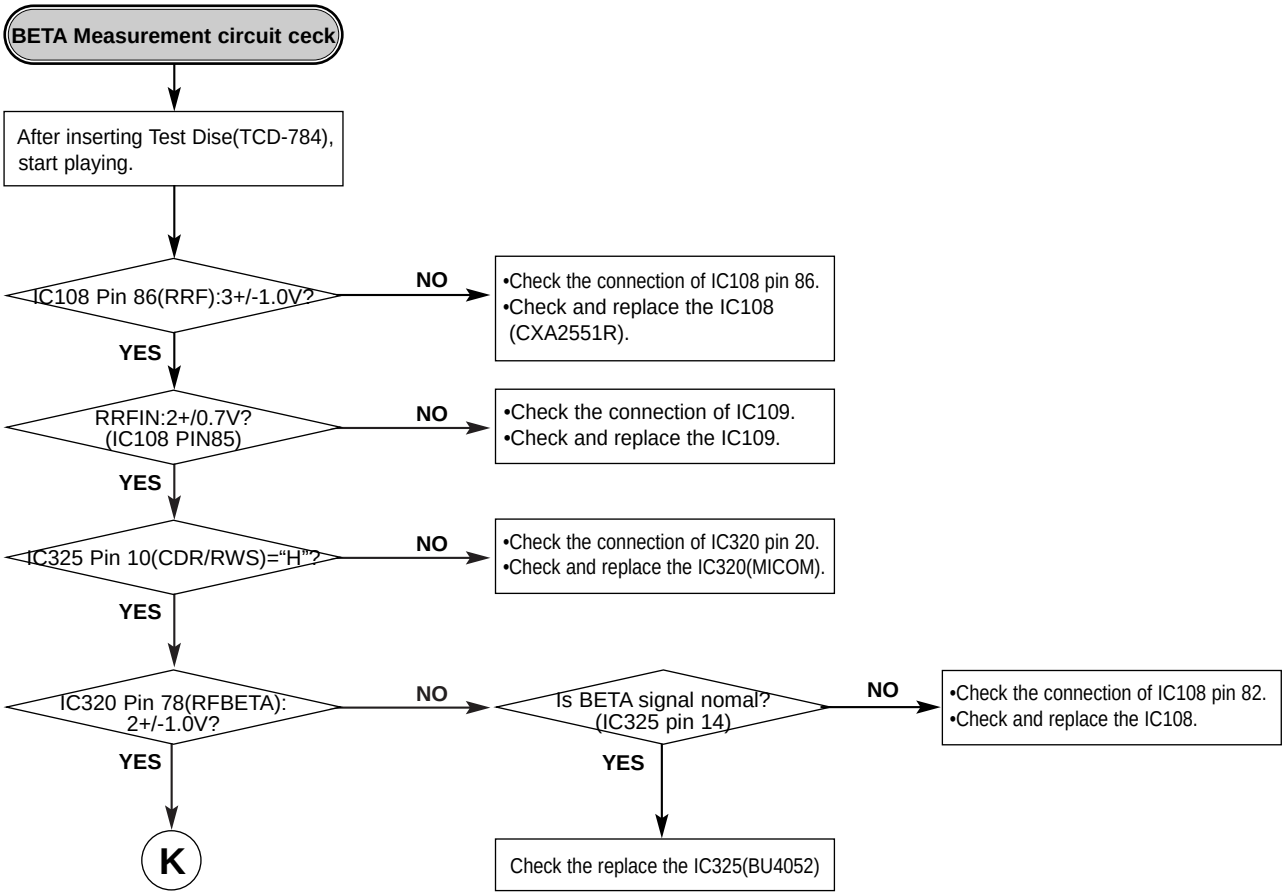

RF output is abnormal
Is there PICK UP(A,B,C,D) output normally? (PN101 pin 8,9, 14,15)
NO
•Check the PICK UP FFC.
•Replace the PICK UP
NO
Go to “Laser is abnormal”
YES
Is RRF signal output normal?(IC108 pin 86)
•First Recognition try : Over 1.7 Vpp
•Second Recognition try : Over 0.5 Vpp
NO
•Check the connection between PN101 and IC108.
•Replace the IC108(CXA2551R).
YES
OK


Focus Servo is unstable
Is FE signal output normal in Focusing Up/Down? (IC108 pin 56)
NO
Check the IC108(CXA2551R).
YES
Go to “RF output is abnormal”
Is FAO signal output normal in Focusing Up/Down? (IC301 pin 207)
NO
Replace the IC301(OTI-9790).
Go to “Focus Actuator operating is abnormal”


Track Servo is unstable
Is TE signal output normal in Focusing ON and Tracking OFF? (IC108 pin57)
NO
Is PICK UP(E,F,G,H) output normal?(PN101 pin 16,7,13,10)
NO
•Check the PICK UP FFC.
•Replace the PICK UP.
YES
YES
Check the IC108(CXA2551R).
YES
Go to “RF output is abnormal”
Is TE signal input normal in Focusing ON and Tracking OFF? (IC301 pin198)
NO
Check the IC104(NJM3403)
YES
Is there TAO signal output in Tracking ON? (IC301 pin 208)
NO
Replace the IC301(OTI-9790).
YES
Check the Driver IC(IC203(BA5983)) and P/U referring to “Focus Actuator operating is abnormal.”

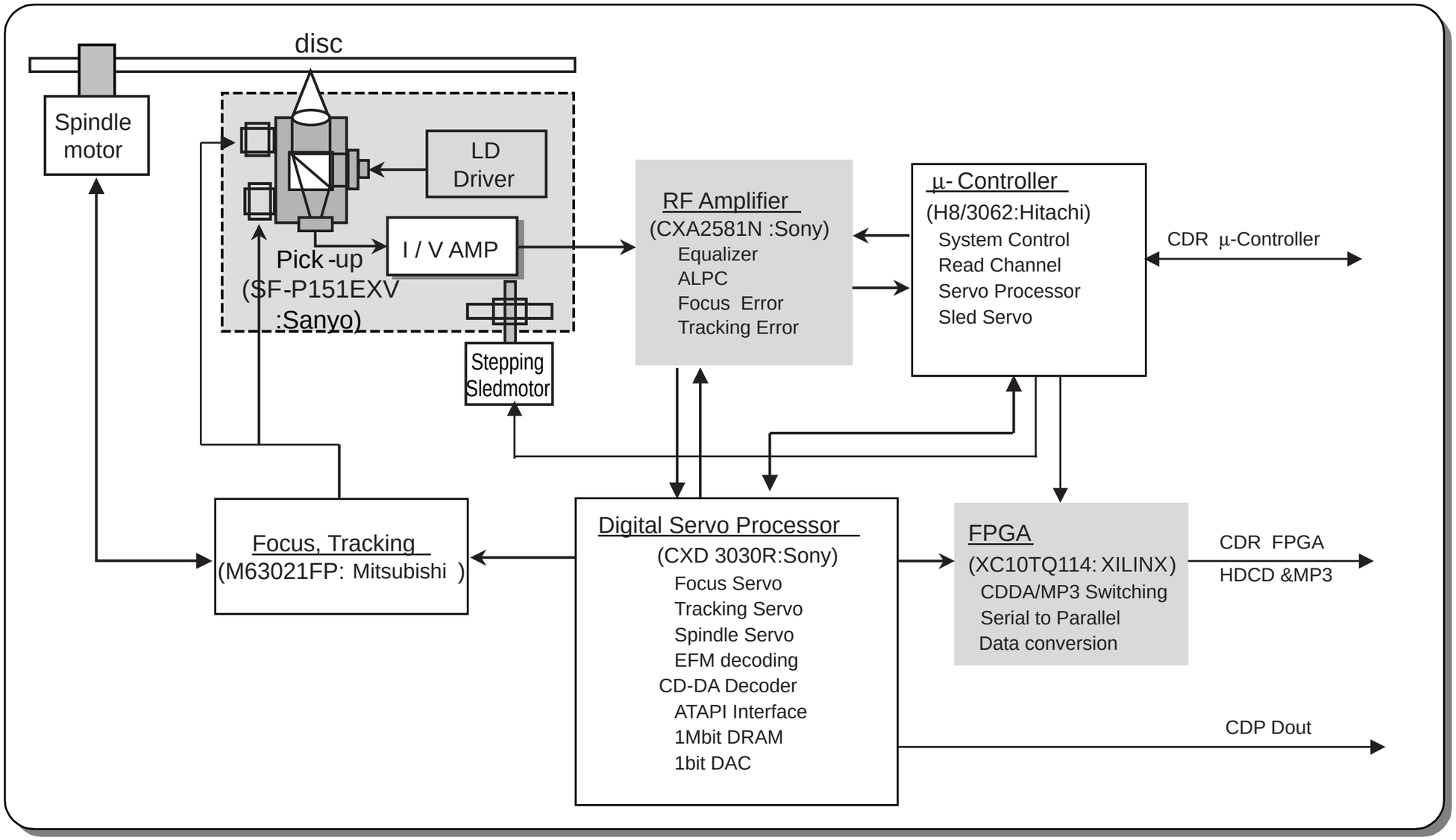

In case of writing fail.
Nomal Case
Check the Media CD-R or CD-RW?
NO
Check disc Label.
YES
Dose the disc have any Dust, Scratch, Fingerprint...?
YES
Romove the Dust, Fingerprint and if the disc has long width Scratch, change it.
NO
Finalized Disc?
NO
Eject Disc.
YES
If CD-R disc, use new CD-R disc.
If CD-RW disc, erase the dise.
Go to “Writing Part Check”


Writing Part Check.
Refer “Laser is abnormal”.
Load tray with CD-R/RW Disc.
Start Recording or dubbing.
Does the unit becomes stand-by mode to record/dubbing?
NO
YES
• Check the communication lines between IC320 and IC301.
• Check and replace the IC302 or IC301.
Dose Writing finish without any error?
NO
YES
Is the written file read nomally?
NO
YES
Eject Tray.
Go to “ALPC Logic Circuit Check”.
Is the re-written file readed nomally?
YES
NO
Is ROPCSH input signal Pulse when CD-R writing (IC108 pin 43)
Check the connection of IC301 pin 187 and replace IC301.
YES
Go to “BETA Measurement Circuit Check”.
OK

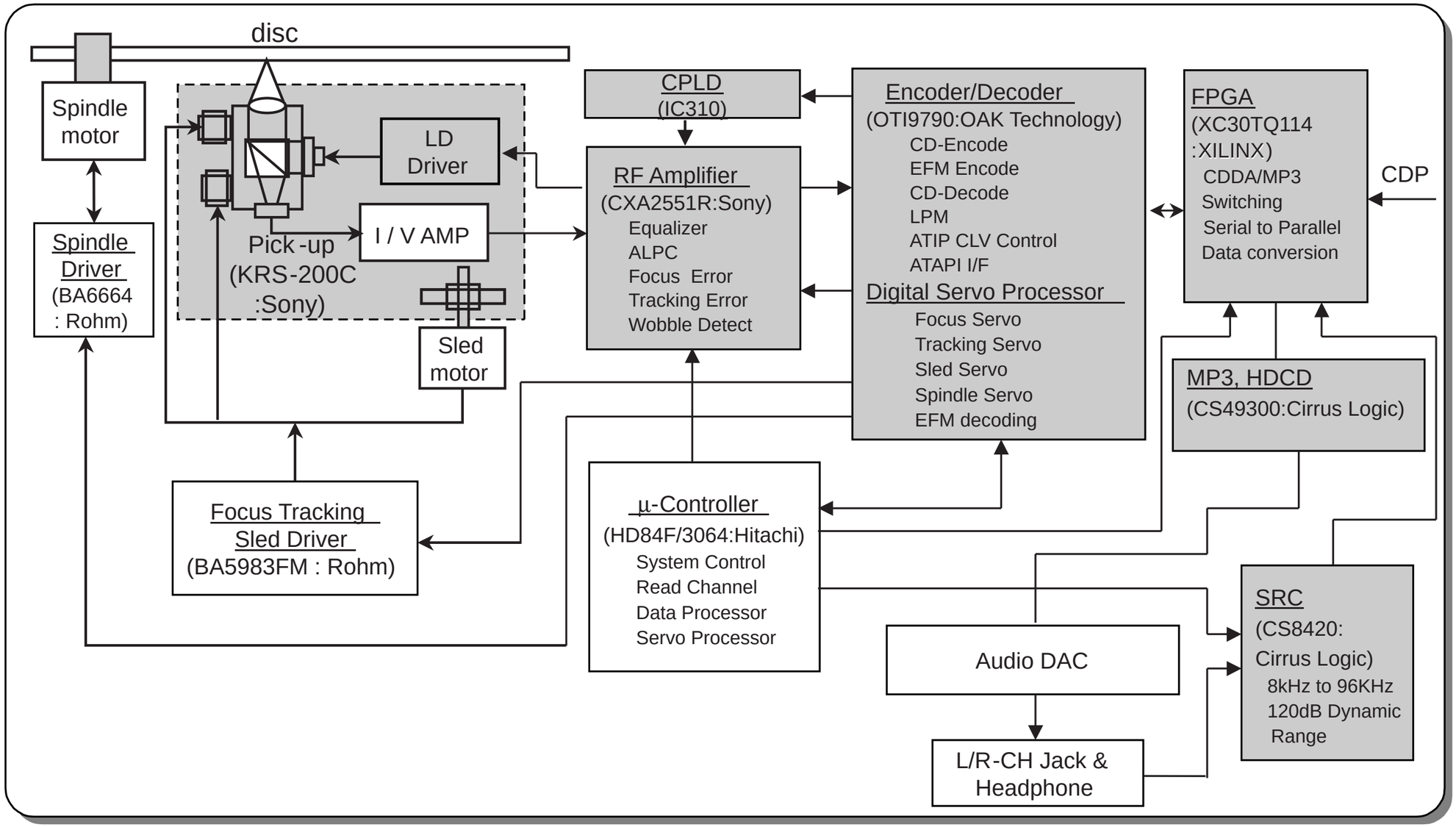

BETA Measurement circuit ceck
After inserting Test Dise(TCD-784), start playing.
IC108 Pin 86(RRF):3+/-1.0V?
NO
•Check the connection of IC108 pin 86.
•Check and replace the IC108 (CXA2551R).
YES
RRFIN:2+/0.7V? (IC108 PIN85)
NO
•Check the connection of IC109.
•Check and replace the IC109.
YES
IC325 Pin 10(CDR/RWS)="H"?
NO
•Check the connection of IC320 pin 20.
•Check and replace the IC320(MICOM).
YES
IC320 Pin 78(RFBETA): 2+/-1.0V?
NO
Is BETA signal nomal? (IC325 pin 14)
NO
•Check the connection of IC108 pin 82.
•Check and replace the IC108.
YES
YES
K
Check the replace the IC325(BU4052)

BLOCK DIAGRAM

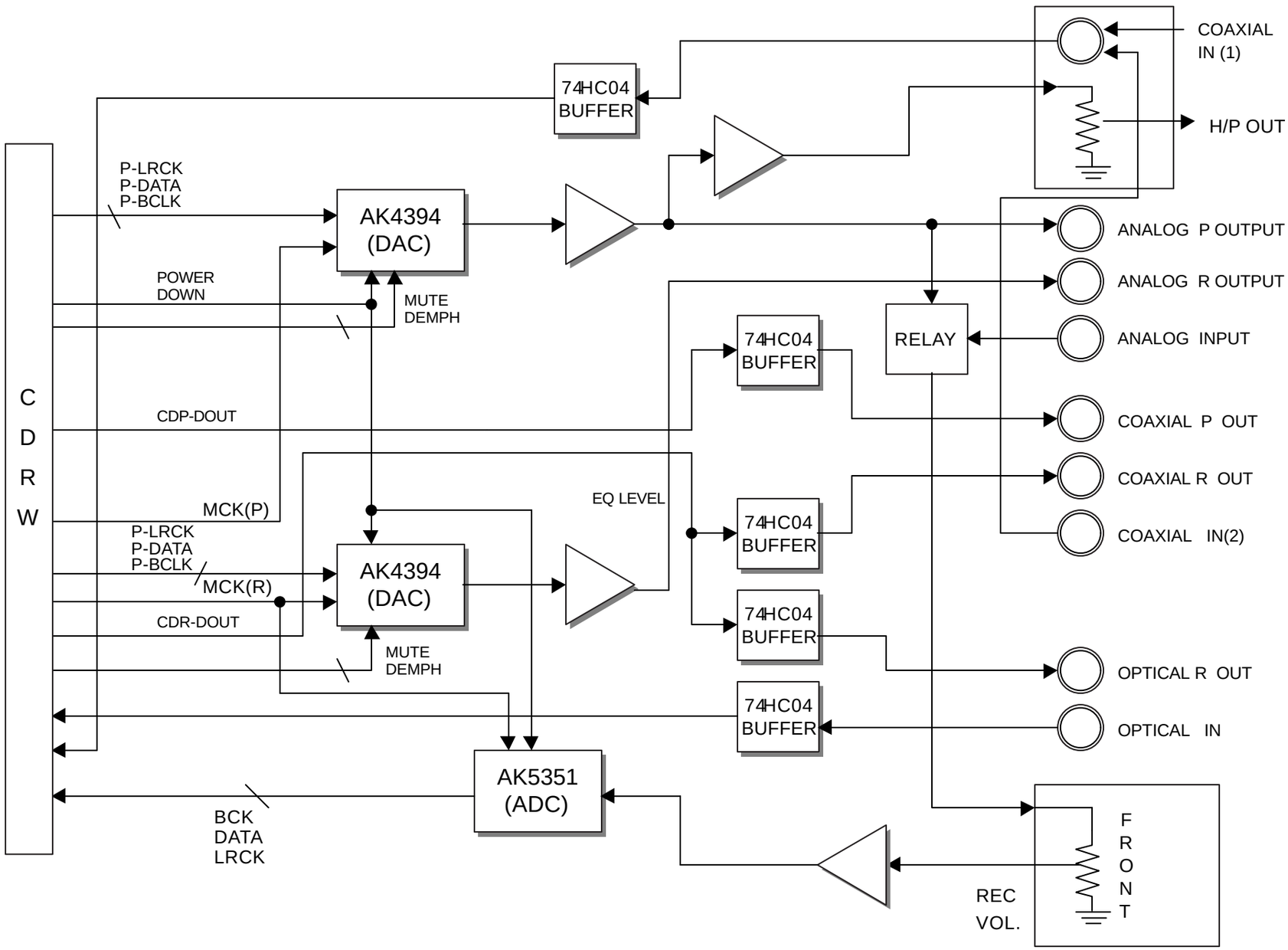
1. CD-Play Block Diagram



2. CD-Record Block Diagram

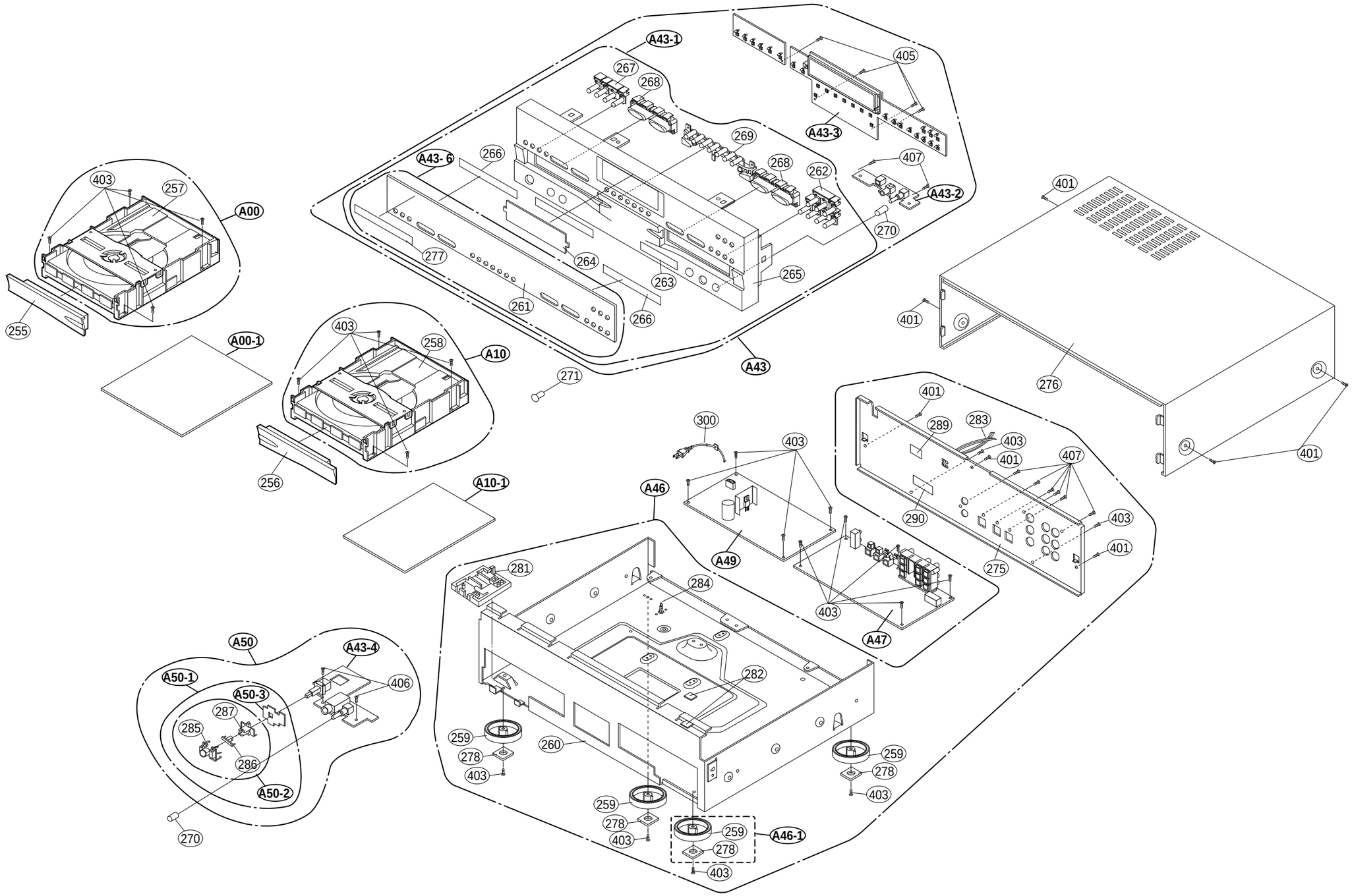


3. I/O Block Diagram

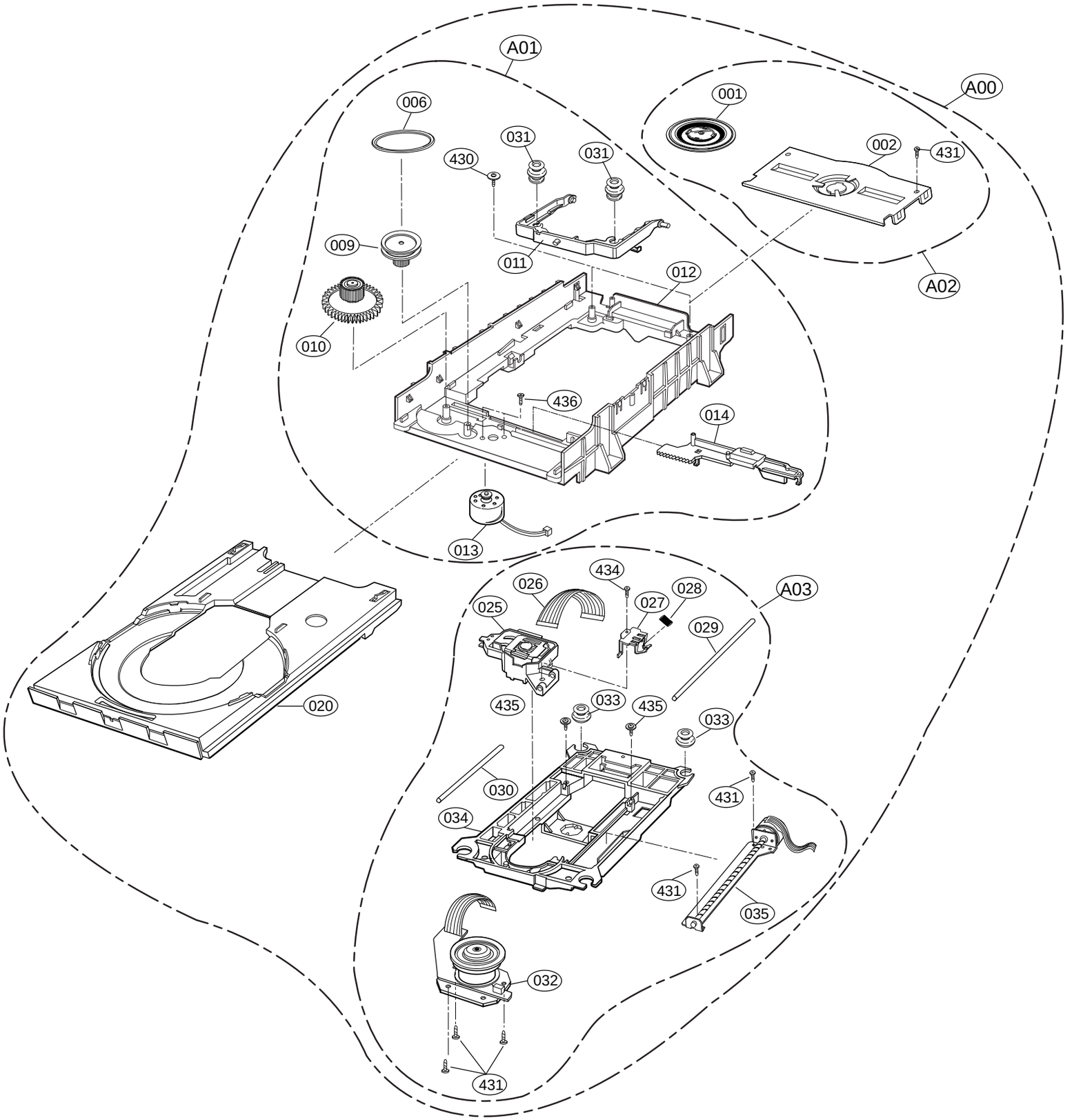


EXPLODED VIEW

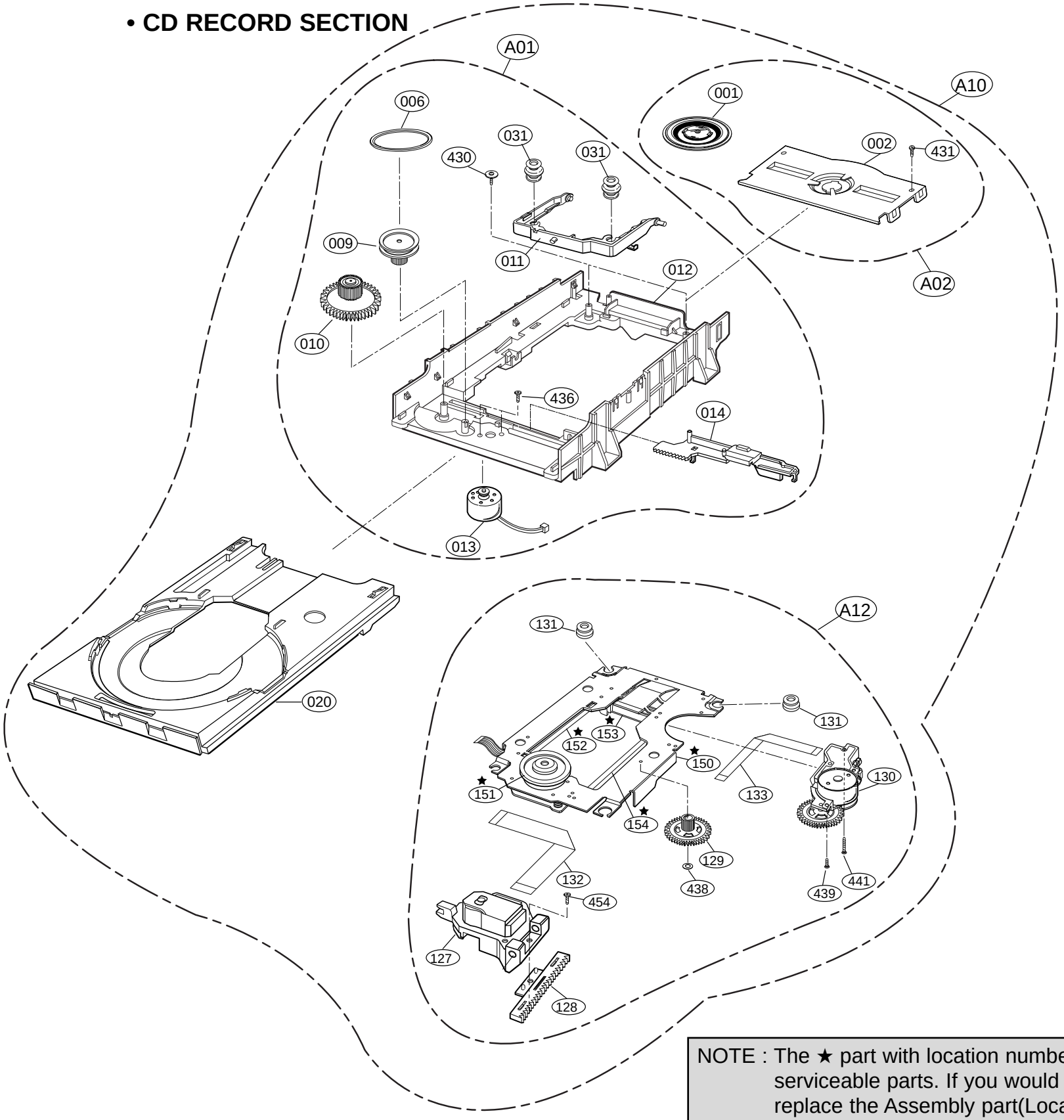
• MAIN SECTION



• CD PLAY SECTION



• CD RECORD SECTION



NOTE : The ★ part with location numbers. 150, 151, 152, 153, 154 are not serviceable parts. If you would like to replace these parts, order and replace the Assembly part(Location No. A12) only.
Because these parts need a Mechanical precision adjustment when reassembling after disassembling.

SECTION 5 REPLACEMENT PARTS LIST

A : CDR 30(UL) , B : CDR 30(EUROPE)

RUN : 2001.02.12

. Mechanical Section

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
			ASSEMBLY SECTION					
		A00	6721R-W223A	O	O	DECK ASSY,AUDIO	AADR700 PLAY DECK+CDP PCB	
		A00-1	6871R-3030A	O	O	PWB(PCB) ASSY,TOTAL	AADR700 KTH1K CDP	
		A01	4405R-D005A	O	O	MECHANISM ASSY	ACDR MAIN LOADING (CDM-700)	
		A02	4931R-0038A	O	O	HOLDER ASSY	CLAMP (CDM-700)	
		A03	4405R-D006A	O	O	MECHANISM ASSY	ACDR PU UNIT (CDM-700P)	
		A10	6721R-0307A	O	O	DECK ASSY,AUDIO	AADR700 RW DECK+RW PCB	
		A12	4405R-D007A	O	O	MECHANISM ASSY	ACDR PU UNIT (CDM-700RW)	
			PARTS SECTION					
		001	4861R-0008A	O	O	CLAMP ASSY	DISC (CDM-700)	
		002	4930R-0209A	O	O	HOLDER	CLAMP (CDM-700)	
		006	4400H-1009A	O	O	BELT	GM-RT1332A	
		009	4470R-0055A	O	O	GEAR	PULLEY	
		010	4470R-0056A	O	O	GEAR	LOADING	
		011	3040R-0035A	O	O	BASE	UP/DOWN (CDM-700)	
		012	3040R-0034A	O	O	BASE	MAIN (CDM-700)	
		013	4681R-0013A	O	O	MOTOR ASSY	LOADING (CDM-700)	
		014	4974R-0029A	O	O	GUIDE	UP/DOWN (CDM-700)	
		020	3390R-0009A	O	O	TRAY	DISC (CDM-700,BLACK)	
		025	6716S-E001A	O	O	PICK UP	SF-P151EXVA SANYO ACDR	
		026	6850HD1L16A	O	O	CABLE,FLEXIBLE	2896-A-1.0-17(05*65)160 BANDO	
		027	4974R-0031A	O	O	GUIDE	FEED (CDM-700P, MATSUSHITA)	
		028	4970H-1086A	O	O	SPRING	FEED(GM-RT1332A)	
		029	4370H-1024C	O	O	SHAFT	P/U (R,GM-RT1332A)	
		030	4370H-1025B	O	O	SHAFT	P/U (L,GM-RT1332A)	
		031	5040R-0054A	O	O	RUBBER	FRONT (CDM-700)	
		032	4680HB1019A	O	O	MOTOR(MECH)	GCS-L32A LGEC SPINDLE	
		033	5040R-0053A	O	O	RUBBER	REAR (CDM-700)	
		034	3040R-0036A	O	O	BASE	P/U (CDM-700)	
		035	4680HP5002D	O	O	MOTOR(MECH)	OTHER 15S1R10F6NC3 MATSUSHITA	
		127	6716R-E002A	O	O	PICK UP	KRS-220C SONY 4RWX4RX32CD	
		128	4471R-0001A	O	O	GEAR ASSY	RACK(CDM-700RW)	
		129	4471R-0002A	O	O	GEAR ASSY	PINION(CDM-700RW)	
		130	4405R-D008A	O	O	MECHANISM ASSY	ACDR SLED UNIT(CDM-700RW,NEW H	
		131	5040R-0053A	O	O	RUBBER	REAR (CDM-700)	
		132	6850HD4P16C	O	O	CABLE,FLEXIBLE	SFBNCD-TN2 BANDO UL20624 0.5MM	
		133	6850HD1817A	O	O	CABLE,FLEXIBLE	SFBNCD-TN BANDO UL2896 1.0MM 8	
		150	3141R-0020A	O	O	CHASSIS ASSY	PU CHULKING (CDM-700RW)	
		151	4680HB1034A	O	O	MOTOR(MECH)	GRS-R02A LGP SPINDLE	NSP
		152	4370H-1078A	O	O	SHAFT	P/U(L/CD-RW)	NSP
		154	4370H-1079A	O	O	SHAFT	P/U(R/CD-RW)	NSP
			SCREW					
		401	353-085E	O	O	SCREW,DRAWING	+ 3 D4.0 L10.0 MSWR3/FZMCW-2	
		403	353-046N	O	O	SCREW,	SPECIAL(3X8 BK.)	
		403	353-051B	O	O	SCREW	SPECIAL	
		405	353-051A	O	O	SCREW	SPECIAL	
		406	1TRL0302016	O	O	SCREW TAPPING,BRIZER HEAD	D 3.0 L 6.0 MSWR3/(BK)	
		407	353-046K	O		SCREW	SPECIAL (3X10 B.K)	
		407	353-051AAAA	O	O	SCREW	TAP/T,WASHER 3X10 FZY,H/D:9.5	
		431	1SZZH-1007B	O	O	SCREW,	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		434	1SZZH-1011B	O	O	SCREW	+ D1.7 6MM SWRCH16A/NIY 3.5MM	
		435	1SZZH-1004A	O	O	SCREW,	+ D1.7 5MM SWRCH16A/ZNY 3.5MM	
		436	4000H-1006B	O	O	SCREW	+ D1.7 4.5MM SWRCH16A/ZNY 4MM	
		438	1WZZH-1009A	O	O	WASHER	BLACK Y POLY N	
		439	1SZZH-1020C	O	O	SCREW,	+ D2.0 4.5MM SWRCH16A/ZNY 4MM	
		441	1SZZH-1020A	O	O	SCREW,	+ D2.0 11.5MM SWRCH16A/ZNY 4MM	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
			. Cabinet&Main Frame Section					
			ASSEMBLY SECTION					
		A43	3501R-M666A	O		BOARD ASSY	FRONT+PCB (AADR700 . EVNT)	
		A43	3501R-M666B		O	BOARD ASSY	FRONT+PCB (AADR700 . 3FH1)	
		A43-1	3721R-F171A	O		PANEL ASSY,FRONT	FRONT (AADR700.KTH1K)	
		A43-1	3721R-F171B		O	PANEL ASSY,FRONT	FRONT (AADR700 EROUPE)	
		A43-2	6871RU3089A	O	O	PWB(PCB) ASSY,SUBSET(AUDIO)	AADR700 KTH1K DIGITAL JACK	
		A43-3	6871RF3086A	O	O	PWB(PCB) ASSY,FRONT(AUDIO)	AADR700 KTH1K DIGITRON	
		A43-6	3790R-P022A	O	O	WINDOW	FL ASS'Y AADR700	
		A46	3141R-0021A	O		CHASSIS ASSY	MAIN(AADR700.KTH1K)	
		A46	3141R-0021D		O	CHASSIS ASSY	MAIN(AADR700 EROUPE)	
		A46-1	3610RB0001F	O	O	FOOT	BOTTOM ASSY(ADR-700)	
		A47	6871R-3038A	O		PWB(PCB) ASSY,TOTAL	AADR700 KTH1K AUDIO	
		A49	3501R-3097A	O		BOARD ASSY	ADR-700	
		A49	3501R-3097B		O	BOARD ASSY	ADR-700	
		A50	3501R-3212A	O		BOARD ASSY	JACK & KNOB ASSY	
		A50	3501R-3212B		O	BOARD ASSY	JACK & KNOB ASSY	
		A50-1	4941R-0003A	O	O	KNOB ASSY (ORDER A50-2 & A50-3)	POWER+PCB	
		A50-2	4941R-0004A	O	O	KNOB ASSY	POWER	
		A50-3	6871RZ3090A	O	O	PWB(PCB) ASSY,OTHERS	AADR700 KTH1K POWER LED	
		A50-4	6871RJ3088A	O		PWB(PCB) ASSY,JACK(AUDIO)	AADR700 KTH1K H/P JACK	
		A50-4	6871RJ3088B		O	PWB(PCB) ASSY,JACK(AUDIO)	ADR700 3FH1 JACK	
			PARTS SECTION					
		256	3580R-T011A	O	O	DOOR	ACDR TRAY (AADR700.KTH1K)	
		257	6721R-0306A	O	O	DECK ASSY	CDM-700P	
		258	6871R-3028A	O	O	PWB(PCB) ASSY,TOTAL	AADR700 KTH1K W/S	
		259	3610S-0192A	O	O	FOOT	BOTTOM(ADR-600 KTH1)	
		260	3140R-0021A	O	O	CHASSIS	MAIN(ADR-700)	
		261	3790R-P020A	O	O	WINDOW	FL(ADR-700.KTH1K)	
		262	4940R-T024A	O	O	KNOB (ORDER ASS'Y 3721R-F171A)	ACDR 7K(AADR700.KTH1K)	
		263	3300R-X020B	O	O	PLATE	LED 3K(ADR-700)	
		264	3300R-P008A	O	O	PLATE	FL(ADR-700)	
		265	3720R-M002A	O		PANEL,AUDIO	FRONT(AADR700.KTH1K)	
		265	3720R-M002B		O	PANEL,AUDIO	FRONT(AADR700 EROUPE)	
		266	3300R-X020A	O	O	PLATE	LED 8K(ADR-700)	
		267	4940R-T022A	O	O	KNOB (ORDER ASS'Y 3721R-F171A)	PLAY 4K(AADR700 KTH1K)	
		268	4940R-T023A	O	O	KNOB (ORDER ASS'Y 3721R-F171A)	SEESAW 4K(AADR700.KTH1K)	
		269	4940R-T019A	O	O	KNOB (ORDER ASS'Y 3721R-F171A)	REC 8KEY(AADR700.KTH1K)	
		270	4940R-V013A	O	O	KNOB	VOLUME (AADR700.KTH1K)	
		270	4940R-V013A	O	O	KNOB	VOLUME (AADR700.KTH1K)	
		271	3550R-0339A	O	O	COVER	OPTICAL(ADR-700)	
		275	3720R-Z012A	O		PANEL	BACK(AADR700.KTH1K)	
		275	3720R-Z012B		O	PANEL	BACK(AADR700 EROUPE)	
		276	3110R-0218A	O	O	CASE	TOP(AADR700.KTH1K)	
		277	3846S-0208A	O	O	MARK	HARMAN KARDON BADGE(ADR-600 KT	
		278	4766R-0003B	O	O	FELT	19.7*19.7 BLACK	
		281	4930R-0219B	O	O	HOLDER	POWER(ADR-700 FOR CE)	
		282	5040R-0045A	O	O	RUBBER	ADR-600 SILICON SHEET FF-4445	
		283	327-013C	O	O	CLAMP	CORD	NSP
		284	322-001E	O	O	SUPPORTER	SUPPORTER PWB DABS 16R	
		289	3850R-Z116C	O		LABEL	UL,CSA(35*14.5) SMPS PET0.1T	
		289	3850R-Z121A		O	LABEL	ADR-600KTH2/ORIGIN-EUROPE	
		290	3850R-B025C	O	O	LABEL	SERIAL BAR CODE-2 (ADR-600KTH1	
		300	6410RAHS02A	O		POWER CORD	AP-10W NI SP2 CORE 80 STP SANG	
		300	6410RCHS02A		O	POWER CORD	EP11 LTFZ-2F 2*0.75 EMI OR SAN	
			SCREW					
		454	1SZZH-1005B	O	O	SCREW,	+ D1.7 3MM SWRCH16A/NIY 3MM 0.	
			Packing Accessory Section					
		801	3829RDK007A	O		MANUAL ASSY	ADR-700 H/KARDON USA OM & 2CAR	
		801	3829RDK007B		O	MANUAL ASSY	ADR-700 H/KARDON EURO 8 OM & P	
		802	3890R-C024A	O		BOX	AADR700 HK-USA DW2 561/198/446	
		803	3920R-E019A	O	O	PACKING	H/C / NAD 0.02 100 EPS 4 571 1	
		804	3858R-S001B	O	O	SHEET (MECH)	LDPE 600M 780MM 0.5 DVD_5	
		808	534-002C	O	O	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		850	3008R-0004A	O	O	DISK	CD-R HARMAN KARDON(2ND)	
		851	564-036D	O	O	PLUG CONTACT CORD,PHONE	PHONE 1.5MZ 1185#26	
		852	564-036J	O	O	CORD	DIGIATL 1.5M 1365#30 ORANGE N	
			Remote Control Section					
		900	6711R1Z017C	O	O	REMOTE CONTROLLER ASSY	HANHGO 43KEY ACDR CDR30RC	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

. Electrical Section

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
			CAPACITOR					
		C101	0CH4470K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C102	0CH4270K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C103	0CH4270K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C104	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C105	0CH7106F621	O	O	CAPACITOR,CHIP[TANTALUM]	10UF 16V M 3528MM TP(-)	
		C106	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C107	0CH7106F621	O	O	CAPACITOR,CHIP[TANTALUM]	10UF 16V M 3528MM TP(-)	
		C108	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C109	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C110	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C111	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C112	0CH4070K112	O	O	CAPACITOR,FIXED CERAMIC(High d	7PF 50V 0.5 pF NP0 1608 R/TP	
		C113	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C114	0CH1474F946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.4700UF 16V Z Y5V(F) 2012 R/T	
		C115	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C116	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C117	0CH4030K042	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	3P 50V C N220 1.6X0.8 R/TP	
		C118	0CH4030K042	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	3P 50V C N220 1.6X0.8 R/TP	
		C119	0CH1222K512	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K B 1608 R/TP	
		C120	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C122	0CH4271K412	O	O	CAPACITOR,FIXED CERAMIC(High d	270PF 50V 5% NP0 1608 R/TP	
		C123	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C124	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C125	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C126	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C127	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C128	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C129	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C130	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C131	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C132	0CH1224K514	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.22UF 50V 10% B(5YP) 3216 R/T	
		C133	0CH1224K514	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.22UF 50V 10% B(5YP) 3216 R/T	
		C134	0CH1333K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C135	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C136	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C137	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C138	0CH1222K512	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K B 1608 R/TP	
		C139	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C140	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C141	0CH4331K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C142	0CH1332K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3300PF 50V 10% B(5YP) 1608 R/T	
		C143	0CH1152K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	1500PF 50V K B 1608 R/TP	
		C144	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C145	0CH1153H562	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.015UF 25V K X7R(X) 1508 R/TP	
		C146	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C147	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C148	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C149	0CH1154F516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.15UF 16V 10% B(5YP) 2012 R/T	
		C150	0CH1334F946	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.33UF 16V 80%,-20% Y5V(F) 201	
		C151	0CH1334F946	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.33UF 16V 80%,-20% Y5V(F) 201	
		C152	0CH1334F946	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.33UF 16V 80%,-20% Y5V(F) 201	
		C153	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C154	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C155	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C156	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C157	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C158	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C159	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C160	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C161	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C162	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C163	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C164	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C165	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C166	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C167	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C168	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C169	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C170	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C171	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C180	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C191	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C192	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C200	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C201	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C202	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C203	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C204	0CH1562K566	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	5600PF 50V 10% X7R(X) 2012 R/T	
		C205	0CH1562K566	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	5600PF 50V 10% X7R(X) 2012 R/T	
		C206	0CH1682K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	6800P 50V K X7R 1.6X0.8 R/TP	
		C207	0CH1682K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	6800P 50V K X7R 1.6X0.8 R/TP	
		C209	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C210	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C211	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C212	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C213	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C214	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C215	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C216	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C217	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C218	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C219	0CH1474F946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.4700UF 16V Z Y5V(F) 2012 R/T	
		C220	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C221	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C222	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C223	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C224	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C225	0CH1222K512	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K B 1608 R/TP	
		C226	0CH1474F946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.4700UF 16V Z Y5V(F) 2012 R/T	
		C227	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C229	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C230	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C231	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C232	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C234	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C236	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C237	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C238	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C239	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C240	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C241	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C242	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C245	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C246	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C250	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C251	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C252	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C253	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C254	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C255	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C256	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C282	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C283	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C284	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C285	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C286	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C287	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C288	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C289	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C290	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C291	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C292	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C293	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C294	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C295	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C296	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C297	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C300	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C301	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C302	0CH1472K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/TP	
		C303	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C304	0CH1332K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3300PF 50V 10% B(5YP) 1608 R/T	
		C305	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C306	0CH1472K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/TP	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C307	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C308	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C309	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C313	0CH4100K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C314	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C315	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C316	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C317	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C318	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C319	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C320	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C321	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C322	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C323	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C324	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C325	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C340	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C342	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C343	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C344	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C345	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C346	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C347	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C348	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C349	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C350	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C351	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C352	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C353	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C354	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C355	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C356	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C357	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C358	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C359	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C360	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C361	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C362	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C363	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C364	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C365	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C366	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C401	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C402	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C403	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C404	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C405	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C406	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C407	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C408	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C409	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C410	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C411	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C412	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C413	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C414	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C415	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C416	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C417	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C418	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C419	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C420	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C421	0CH4100K112	O	O	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C422	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C423	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C424	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C425	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C426	0CH7476C621	O	O	CAPACITOR,CHIP[TANTALUM]	47UF 6.3V M 3528 TP(-)	
		C427	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C428	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C429	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C430	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C431	0CH7225F611	O	O	CAPACITOR,FIXED TANTALUM	2.2UF 16V 20% 3216 TP(-)	
		C432	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C433	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	

A : CDR 30(UL) , B : CDR 30(EUROPE)

RUN : 2001.02.12

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C434	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C435	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C436	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C437	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C438	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C439	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C440	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C441	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C442	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C443	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C444	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C445	0CH1822K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	8200PF 50V K X7R(X) 1608 R/TP	
		C446	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C447	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C448	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C449	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C450	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C451	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C452	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C453	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C454	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C455	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C456	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C459	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C460	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C461	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C462	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C463	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C464	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C465	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C466	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C467	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C468	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C469	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C470	0CH4330K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C471	0CH4330K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C472	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C501	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C502	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C503	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C504	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C505	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C506	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C507	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C508	0CH1332K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C509	0CH4121K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	120P 50V J COG 1.6X0.8 R/TP	
		C510	0CH1822K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	8200PF 50V K X7R(X) 1608 R/TP	
		C512	0CH8476F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	47UF 16V M 85STD(CYL) R/TP SAM	
		C513	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C514	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C515	0CH8476F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	47UF 16V M 85STD(CYL) R/TP SAM	
		C516	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C517	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C518	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C519	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C520	0CH1333K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C521	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C522	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C524	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C525	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C526	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C527	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C528	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C529	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C530	0CH1474F946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.4700UF 16V Z Y5V(F) 2012 R/T	
		C531	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C532	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C533	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C534	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C535	0CH4100K112	O	O	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C536	0CH4100K112	O	O	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C537	0RH0102C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		C538	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C541	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C542	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C543	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C544	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C545	0CH1104K946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.1UF 50V Z Y5V(F) 2012 R/TP	
		C546	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C547	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C548	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C549	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C550	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C551	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C552	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C561	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C562	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C563	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C564	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C565	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C566	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C567	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C568	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C569	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C570	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C571	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C572	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C573	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C574	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C575	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C576	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C577	0CH4331K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C578	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C579	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C580	0CH1472K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/TP	
		C581	0CH1472K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/TP	
		C582	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C591	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C600	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C601	0CH8476F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	47UF 16V M 85STD(CYL) R/TP SAM	
		C602	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C603	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C604	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C605	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C606	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C607	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C608	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C609	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C610	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C611	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C612	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C613	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C614	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C615	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C616	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C617	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C621	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C623	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C624	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C625	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C626	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C628	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C629	0CH7106C611	O	O	CAPA,CHIP TANRALUM	10UF 6.3V M 3216 TP(-)	
		C630	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C631	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C633	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C634	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C635	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C636	0CH1104K946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.1UF 50V Z Y5V(F) 2012 R/TP	
		C638	0CH4101K416	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C639	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C640	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C641	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C642	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C643	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C680	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C681	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C691	0CH1122K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1200PF 50V 10% X7R(X) 1608 R/T	
		C692	0CHZS-0002C	O	O	CAPACITOR,CHIP	GRM40Y5V105Z16D530 PT85 MURATA	
		C701	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C702	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C703	0CE4756K618	O	O	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C704	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C705	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C706	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C707	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C708	0CH1103K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C709	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C710	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C711	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C712	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C713	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C714	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C715	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C716	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C717	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C718	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C719	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C720	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C721	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C722	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C723	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C724	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C725	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C726	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C727	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C728	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C729	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C730	0CE4775C618	O	O	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5	
		C731	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C732	0CE4775C618	O	O	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5	
		C733	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C734	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C735	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C736	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C737	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C738	0CH1332K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C739	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C740	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C741	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C742	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C743	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C744	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C745	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C746	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C747	0CH1332K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C748	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C749	0CQ3921N409	O	O	CAPACITOR POLYESTER(MYLAR)	0.0039U 100V J POLY TP	
		C750	0CQ3921N409	O	O	CAPACITOR POLYESTER(MYLAR)	0.0039U 100V J POLY TP	
		C751	0CH1332K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C752	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C753	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C754	0CE4775C618	O	O	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5	
		C755	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C756	0CE4766J618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 35V M FM(5) TP(5)	
		C757	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C758	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C759	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C760	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C761	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C762	0CH1332K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C763	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C764	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C765	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C766	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C767	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C768	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C769	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C770	0CE4775C618	O	O	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5	
		C7702	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7703	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C7704	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7705	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7706	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7707	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C7708	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7709	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7710	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7711	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7712	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C7713	0CH4680K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	68P 50V J COG 1.6X0.8 R/TP	
		C7715	0CH4121K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	120P 50V J COG 1.6X0.8 R/TP	
		C7716	0CH4121K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	120P 50V J COG 1.6X0.8 R/TP	
		C7717	0CH4271K412	O	O	CAPACITOR,FIXED CERAMIC(High d	270PF 50V 5% NP0 1608 R/TP	
		C7718	0CH4271K412	O	O	CAPACITOR,FIXED CERAMIC(High d	270PF 50V 5% NP0 1608 R/TP	
		C773	0CH4181K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	180P 50V J COG 1.6X0.8 R/TP	
		C774	0CH4181K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	180P 50V J COG 1.6X0.8 R/TP	
		C775	0CH4181K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	180P 50V J COG 1.6X0.8 R/TP	
		C776	0CH4181K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	180P 50V J COG 1.6X0.8 R/TP	
		C779	0CE4775C618	O	O	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5	
		C780	0CH1821K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% X7R(X) 1608 R/TP	
		C781	0CH1332K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C782	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C783	0CQ3921N409	O	O	CAPACITOR POLYESTER(MYLAR)	0.0039U 100V J POLY TP	
		C784	0CQ3921N409	O	O	CAPACITOR POLYESTER(MYLAR)	0.0039U 100V J POLY TP	
		C785	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C786	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C787	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C788	0CE2276H618	O	O	CAPACITOR,ELECTROLYTIC	220M SMS 25V FM5 TP(5)	
		C789	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C790	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C791	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C792	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C793	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C794	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C796	0CH1103K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C797	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C798	0CH1103K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C799	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C801	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C802	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C804	0CE1073F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SRE,SE 16V 20% FM5 TP 5	
		C805	0CN1020K518	O	O	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C806	0CN1020K518	O	O	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C807	0CN1020K518	O	O	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C809	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C810	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C811	0CN1010K418	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C812	0CN1010K418	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C813	0CN1010K418	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C814	0CN1010K418	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26	
		C816	0CX3300K408	O	O	CAPACITOR TUBULA(T.C)	33P 50V J SL TA26	
		C817	0CX3300K408	O	O	CAPACITOR TUBULA(T.C)	33P 50V J SL TA26	
		C818	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C819	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C820	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C821	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C822	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C823	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C826	0CN1040K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C900	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C901	624-088F	O	O	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C902	624-088F	O	O	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C903	624-082C	O	O	CAPACITOR,AL.ELECTROLYTIC	100MF/400V SHL SMPS S/Y	
		C904	0CN223AK948	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C905	0CQ1031Y519	O	O	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	
		C906	624-087B	O	O	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA	
		C909	0CQ4732K409	O	O	CAPACITOR,POLYESTER(MYLAR)	0.047UF S 50V J PE TP	
		C913	0CG3320U630		O	CAPACITOR,SEMI CERAMIC	3300 PF 400V M E R(NK,AD,SD)	
		C913	624-086E	O		CAPACITOR	AC-CON 472/400V(SC)	
		C914	624-086E	O		CAPACITOR	AC-CON 472/400V(SC)	
		C915	0CE2276D618	O	O	CAPACITOR,ELECTROLYTIC	220UF SMS 10V M FL TP5	
		C916	0CE108BF638	O	O	CAPACITOR,AL.ELECTROLYTIC	1000UF KME TYPE 16V M FM5 TP 5	
		C917	0CE4764K638	O	O	CAPACITOR,AL.ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C918	0CE1076F638	O	O	CAPACITOR,AL.ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C919	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C921	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C923	0CE108BF638	O	O	CAPACITOR,AL.ELECTROLYTIC	1000UF KME TYPE 16V M FM5 TP 5	
		C924	0CE108BF638	O	O	CAPACITOR,AL.ELECTROLYTIC	1000UF KME TYPE 16V M FM5 TP 5	
		C925	0CE3376D638	O	O	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C926	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C927	0CE4764K638	O	O	CAPACITOR,AL.ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C928	0CQ4732K409	O	O	CAPACITOR,POLYESTER(MYLAR)	0.047UF S 50V J PE TP	
		C929	0CE1076F638	O	O	CAPACITOR,AL.ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C930	0CE4764K638	O	O	CAPACITOR,AL.ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C931	0CE4764K638	O	O	CAPACITOR,AL.ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C932	0CE1076F638	O	O	CAPACITOR,AL.ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C933	0CE3376D638	O	O	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C934	0CE1076F638	O	O	CAPACITOR,AL.ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C935	0CE1064H638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 25V M FM5 TP(5)	
		C936	0CE1076F638	O	O	CAPACITOR,AL.ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C937	0CE228CF630	O	O	CAPACITOR,ELECTROLYTIC	2200U SHL 16V M FM5	
		C938	0CE1064H638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 25V M FM5 TP(5)	
			CONNECTOR					
		PN101	6630HXE232A	O	O	CONNECTOR (CIRC),FFC/FPC	52559-3292 MOLEX 32PIN 0.5MM S	
		PN105	6630R3S006A	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 6PIN 2.0MM STRA	
		PN201	561-711L	O	O	CONNECTOR	*WAFER,G/S GIL-S-12P-S2T2-EF	
		PN201	6630R-FB02H	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-108-008-800 ELCO 8PIN	
		PN202	6630R-FB02K	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-111-008-800 ELCO 11PIN	
		PN203	561-711B	O	O	CONNECTOR	*WAFER,G/S GIL-S-02P-S2T2-EF	
		PN401	6630R-FB024	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-130-008-800 ELCO 30 PI	
		PN402	6630R-FB06Z	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-126-102-800 ELCO 26 PI	
		PN403	6630R3S006D	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 8PIN 2.0MM STRA	
		PN501	6630R-FB02Q	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-117-008-800 ELCO 17PIN	
		PN502	561-711B	O	O	CONNECTOR	*WAFER,G/S GIL-S-02P-S2T2-EF	
		PN503	6630R-FB02D	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-104-008-800 ELCO 4PIN	
		PN504	6630R-FB02M	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-113-008-800 ELCO 13PIN	
		PN505	6630R3S006A	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 6PIN 2.0MM STRA	
		PN506	6630R-FB02T	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-120-008-800 ELCO 20 PI	
		PN507	6630R3S006A	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 6PIN 2.0MM STRA	
		PN508	6630R3S006A	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 6PIN 2.0MM STRA	
		PN509	6630R3S006E	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 9PIN 2MM STRAIG	
		PN511	6630R3S006F	O	O	CONNECTOR (CIRC)	GT200 LG CABLE 5PIN 2MM STRAIG	
		PN512	6630R-FB02Z	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-126-008-800 ELCO 26 PI	
		PN802	561-712C	O	O	CONNECTOR	*WAFER,G/S GIL-S-03P-S2L2-EF	
		PN8511	6631R-E015A	O	O	CONNECTOR ASSY	GIL-S/9073 5 PIN 180M/M UL1571	
		PN8802	563-602Z	O	O	CONNECTOR ASSY	GIL-S/GIL-T 3 PIN 40M/M UL1571	
		PW901	561-292B	O	O	CONNECTOR	GP390 LGC 3P 3.96 STRAIGHT SN	
		CN401	6630R-FB104	O	O	CONNECTOR (CIRC),FFC/FPC	00-6232-030-006-800 ELCO 30 PI	
		CN403	6631R-E009E	O	O	CONNECTOR ASSY	GIL-S08/9073ST 8 PIN 60M/M UL1	
		CN701	6631R-E009D	O	O	CONNECTOR ASSY	GIL-S/9073 12 PIN 100M/M UL106	
		CN801	6630S-BC02H	O	O	CONNECTOR (CIRC)	B TO B P=1.25 8 PIN, 53045-081	
		CN802	6630S-BC01H	O	O	CONNECTOR (CIRC)	B TO B P=1.25 8 PIN, 52061-081	
		CN803	6630R-FB10T	O	O	CONNECTOR (CIRC),FFC/FPC	00-6232-020-006-800 ELCO 20 PI	
		CN805	561-711F	O	O	CONNECTOR	*WAFER,G/S GIL-S-06P-S2T2-EF	
		CN805	6631R-E013B	O	O	CONNECTOR ASSY	GIL-S/9073 6 PIN 320M/M UL2547	
		CN807	6631R-E013A	O	O	CONNECTOR ASSY	GIL-S/9073 6 PIN 240M/M UL2547	
		CN901	563-602Y	O	O	CONNECTOR ASSY	GIL-S/GIL-T 9 PIN 90M/M 1571 A	
		CN904	563-602P	O	O	CONNECTOR ASSY	GIL-S/GIL-T 6PIN 60M/M UL1571	
			WAFER					
		CN8901	6602R-GV01C	O	O	WAFER	JE202-1T-03(3-2) JAE EUN P=3.9	
		PN901	6602R-GV01C	O	O	WAFER	JE202-1T-03(3-2) JAE EUN P=3.9	
			DIODE					
		D101	0DS121009AA	O	O	DIODE,SWITCHING	KDS121 TP KEC UMT 85V 300MA 2A	
		BD901	0DD160000DA	O	O	DIODE	S1WBA60(1A 600V) SHIDENKEN	
		D301	0DS121009AA	O	O	DIODE,SWITCHING	KDS121 TP KEC UMT 85V 300MA 2A	
		D302	0DD187009AC	O	O	DIODE	KDS187 CHIP KEC TP KEC	
		D504	0DS121009AA	O	O	DIODE,SWITCHING	KDS121 TP KEC UMT 85V 300MA 2A	
		D505	0DD187009AA	O	O	DIODE,DRAWING	DIODE CHIP KDS187-T1(D3) KEC	
		D801	0DD133009AA	O	O	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D901	0DD221009AA	O	O	DIODE	ERA22-10 KFLB,TP ,R T/P,FUJI	
		D902	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D906	0DR310000AA	O	O	DIODE,RECTIFIER	RU3YXLF-C1 BK SANKEN D4 100V 2	
		D907	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D908	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D909	0DRSA00020A	O	O	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D910	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D911	0DR104009AB	O	O	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D920	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
			FUSE,HOLDER,DIGITRON					
		F901	585-011T		O	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL SEMK	
		F901	585-027B	O		FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS /	
		FH01	586-008B	O	O	HOLDER	FUSE CLIP TP SINSUNG	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		FH02	586-008B	O	O	HOLDER	FUSE CLIP TP SINSUNG	
		FLD801	6302R-V108A	O	O	DIGITRON	16-BT-83GNK FUTABA UNIVERSAL A	
			IC,SENSOR					
		IC101	0IJR341400E	O	O	IC,JRC	NJN3414V SIP-8 TP DUAL OP AMP	
		IC102	0IJR340400B	O	O	IC,JRC	NJM3404AV SIP-8 TP SINGLE-SUPP	
		IC103	0ILNRKA001A	O	O	IC,LINEAR	KM4200IC8-TR3 KOTA 8P SOIC R/T	
		IC104	0IJR340300A	O	O	IC,JRC	NJM3403AV-TE1 OP AMP	
		IC105	0IJR290300D	O	O	IC,JRC	NJM2903V-TE1 8P SSOP TP COMPAR	
		IC106	0INS766500A	O	O	IC,NATIONAL SEMICONDUCTOR	NC7SZ66M5X SOT23 TP SINGLE BIL	
		IC107	0ITO708000D	O	O	IC,TOSHIBA	TC7W08FUDUAL 2 INPUT AND GATE	
		IC108	GISO255100A	O	O	IC,SONY	CXA2551R 100PIN LQFP TP RF AMP	
		IC109	0INS766500A	O	O	IC,NATIONAL SEMICONDUCTOR	NC7SZ66M5X SOT23 TP SINGLE BIL	
		IC110	0IMI623520A	O	O	IC,MITSUBISHI	M62352GP 20P SSOP TP 12CH D/A	
		IC201	0IRH592500A	O	O	IC,ROHM	BA5925FV SSOP-B28 TP SLED	
		IC202	0IRH666400A	O	O	IC,ROHM	BA6664FM HSOP28 TP NOTOR DRIVE	
		IC203	0IRH598300A	O	O	IC,ROHM	BA5983FM HSOP28 TP DRIVE METAL	
		IC204	0IJR780800C	O	O	IC,JRC	NJM7808DLA 3 TP REGULATOR	
		IC205	0IJR780800C	O	O	IC,JRC	NJM7808DLA 3 TP REGULATOR	
		IC206	0IRH405300A	O	O	IC,ROHM	BU4053BCFV 16P,SSOP TP TRIPLE	
		IC207	0IJR340400B	O	O	IC,JRC	NJM3404AV SIP-8 TP SINGLE-SUPP	
		IC210	0IJR341400E	O	O	IC,JRC	NJN3414V SIP-8 TP DUAL OP AMP	
		IC301	0IOA979000A	O	O	IC,OAK TECHNOLOGY	OTI-9790 CD-R/RW CONTROLLER TP	
		IC302	0IGS711816P	O	O	IC,LG SEMICONDUCTOR	GM71C18163C TSOP2 TP 5V 60N 1M	
		IC304	0IRH033000A	O	O	IC,ROHM	BA033SFP P/MOLD-5 TP REGULATOR	
		IC305	0IRH393900A	O	O	IC,ROHM	BA3939FP-E2	
		IC310	0ICP010000A	O	O	IC,CROSS SNT	CST0100C 44QFP BK ASIC	
		IC320	0IMCRHI001A	O	O	IC,MICRO CONTROLLER	HD64F3064FBL20 HITACHI 100,QFP	
		IC321	0IFA938680A	O	O	IC,FAIRCHILD	FM93C86AM8X 8P SOP TP EEPROM 1	
		IC322	0IFA745740B	O	O	IC,FAIRCHILD	74VHC574MTCX 20P TSSOP TP D-TY	
		IC323	0IFA745740B	O	O	IC,FAIRCHILD	74VHC574MTCX 20P TSSOP TP D-TY	
		IC324	0IFA741380E	O	O	IC,FAIRCHILD	74VHC138MTCX 16P TSSOP R/TP 3	
		IC325	0IRH405200C	O	O	IC,ROHM	BU4052BCFV SSOP-B16 TP DUAL 4C	
		IC326	0ITR613002E	O	O	IC,TOREX SEMICONDUCTOR	XC61CN3002PR 3P SOT-89 TP VOL	
		IC401	0ISTLXL001A	O	O	IC,STANDARD LOGIC	XCS30XL-TQ144 XILINX 144 QFP B	
		IC402	0IWI242573A	O	O	IC,WINBOND	W24257AS-35 (TAPE&REEL) 1K/TP	
		IC405	0INS704500C	O	O	IC,NATIONAL SEMICONDUCTOR	NC7SZ04M5X 5P SOT23-5 TP INVER	
		IC406	0IRH405300A	O	O	IC,ROHM	BU4053BCFV 16P,SSOP TP TRIPLE	
		IC407	0ICB493302A	O	O	IC,CRYSTAL SEMICONDUCTOR	CS493302-CLR 44 PLCC R/TP MP3	
		IC409	0IFA745740B	O	O	IC,FAIRCHILD	74VHC574MTCX 20P TSSOP TP D-TY	
		IC410	0IFA745740B	O	O	IC,FAIRCHILD	74VHC574MTCX 20P TSSOP TP D-TY	
		IC411	0IFA111725A	O	O	IC,FAIRCHILD	RC1117ST-2.5 SOT-263 TP 2.5V R	
		IC412	0ICB842000B	O	O	IC,CRYSTAL SEMICONDUCTOR	CS8420-CSR(REV D)28L SOIC TP D	
		IC413	0IAL270101E	O	O	IC,ATMEL	AT27LV010A-12TC 32P TSOP BK 1M	
		IC414	0IRH033000A	O	O	IC,ROHM	BA033SFP P/MOLD-5 TP REGULATOR	
		IC501	0ISO258100A	O	O	IC,SONY	CXA2581N 30PIN TP RFIC	
		IC502	GISO303000E	O	O	IC,SONY	CXD 3030R H-VCO 144LQFP BK 48X	
		IC503	0IHI643062B	O	O	IC,HITACHI	HD64F3062AFBL FP-100B TP MICOM	
		IC504	0IJR210000B	O	O	IC,JRC	NJM2100V DUAL OP AMP,JRC	
		IC505	0IMI630210A	O	O	IC,MITSUBISHI	M63021FP 42P9R TP DRIVE	
		IC506	0ITR613002E	O	O	IC,TOREX SEMICONDUCTOR	XC61CN3002PR 3P SOT-89 TP VOL	
		IC507	0ISTLXL002A	O	O	IC,STANDARD LOGIC	XCS10XL-TQ144 XILINX 144 QFP B	
		IC508	DITO453000C	O	O	IC,TOSHIBA	TC4W53FU SSOP 8PIN	
		IC509	0IRH405300A	O	O	IC,ROHM	BU4053BCFV 16P,SSOP TP TRIPLE	
		IC510	0IPH740400F	O	O	IC,PHILIPS	74HCU04D SOT108-1 TP INVERTER	
		IC511	0IRI527000A	O	O	IC,RICOH	RN5RZ27BA-TR SOT-23-5 TP REGUL	
		IC512	0IRH033000A	O	O	IC,ROHM	BA033SFP P/MOLD-5 TP REGULATOR	
		IC701	0IAK535120A	O	O	IC,AKM	AK5351VF-E2 24SOP TP ADC 1K RE	
		IC702	0IJR456500A	O	O	IC, JRC(JAPAN RADIO CORP.)	NJM4565M-A,OP-AMP,JRC	
		IC703	0IJR456500A	O	O	IC, JRC(JAPAN RADIO CORP.)	NJM4565M-A,OP-AMP,JRC	
		IC704	0IAK439320A	O	O	IC,AKM	AK4393VF-E2 28SOP TP DAC 1K RE	
		IC705	0IJR553200A	O	O	IC,JRC(JAPAN RADIO CORP.)	NJM5532 OP AMP JRC	
		IC706	0IAK439320A	O	O	IC,AKM	AK4393VF-E2 28SOP TP DAC 1K RE	
		IC707	0IJR553200A	O	O	IC,JRC(JAPAN RADIO CORP.)	NJM5532 OP AMP JRC	
		IC708	0ILNRJR002A	O	O	IC,LINEAR	NJM4556AM JRC 8PIN SOP R/TP DU	
		IC709	0IPH740400F	O	O	IC,PHILIPS	74HCU04D SOT108-1 TP INVERTER	
		IC710	0IPH740400F	O	O	IC,PHILIPS	74HCU04D SOT108-1 TP INVERTER	
		IC711	657-063A	O	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC801	0IMCRNE002A	O	O	IC,MICRO CONTROLLER	UPD780232GC-026 NEC 80 QFP TRA	
		IC802	0IKE704200B	O	O	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		IC901	0ISK615300A	O	O	IC,SANKEN	STR-G6153T 5PIN FM CUT BK PWM	
		IC902	657-063A	O	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC904	0ISS431000A	O	O	IC,SAMSUNG ELECTRONICS	KA431AZ (LM431AZ)	
		IC905	0ISS781200E	O	O	IC,SAMSUNG SEMICONDUCTOR	KA78R12 TO-220 LD 1A REGL	
		IC906	0ISS791200A	O	O	IC,SAMSUNG SEMICONDUCTOR	KA7912 ST REGULATOR IC	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		IC907	0IKE781200B	O	O	IC,KEC	KIA7812PI 12V 1A,KEC	
			JACK,SOCKET					
		JK701	6612R-L002A	O	O	JACK,FIBER OPTIC	TORX178 TOSHIBA . .	
		JK702	6620S-L001A	O	O	SOCKET (CIRC),FIBER OPTIC	GP1F32T SHARP OPTICAL "H"	
		JK703	6620S-L001A	O	O	SOCKET (CIRC),FIBER OPTIC	GP1F32T SHARP OPTICAL "H"	
		JK704	6612S-A005A	O	O	JACK,HEADPHONE	LGA6502-0150 SMK 2YEON .	
		JK705	6612S-C008A	O	O	JACK,RCA	PJ6031 PARK ELEC 12YEON ACDR	
		JK801	6612R-C013A	O	O	JACK,RCA	RCA-104 YUQIU (1P) ORANGE	
		JK802	572-359J	O	O	JACK 6.4	SOQ4694-01-4101 K-HOSIDEN H=6.	
		JK803	6612R-L005A	O	O	JACK,FIBER OPTIC	GP1FH500RZ SHARP .	
			COIL,FILTER					
		BC901	636-004C	O	O	COIL	BEAD CORE BFS3550R2FD8,R T/P	
		L101	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L102	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L103	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L301	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L302	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L401	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L402	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L403	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L463	6140H-A001A	O	O	FILTER(CIRC),EMI	BEAD C,HH-1H4532-121JT.CERATEH	
		L464	6140H-A001A	O	O	FILTER(CIRC),EMI	BEAD C,HH-1H4532-121JT.CERATEH	
		L501	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L502	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L503	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L504	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L505	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L506	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L507	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L508	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L509	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L510	6140H-A001A	O	O	FILTER(CIRC),EMI	BEAD C,HH-1H4532-121JT.CERATEH	
		L511	6140H-A001A	O	O	FILTER(CIRC),EMI	BEAD C,HH-1H4532-121JT.CERATEH	
		L701	6200S-JC01A	O	O	FILTER(CIRC),EMI	HB-1M2012-121JT CERATECH SMD T	
		L702	6200S-JC01A	O	O	FILTER(CIRC),EMI	HB-1M2012-121JT CERATECH SMD T	
		L901	616-145M	O	O	FILTER(CIRC)	V-04350 LS FUTAI BULK =616-145	
		L903	633-088D	O	O	COIL,CHOKE	CHOCK ,20UH,LEAD CUT	
		L904	633-088D	O	O	COIL,CHOKE	CHOCK ,20UH,LEAD CUT	
		L905	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) TP 5MM	
		L908	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) TP 5MM	
		L909	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) TP 5MM	
		L910	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) TP 5MM	
		T701	6140R-C001C	O	O	COIL,CHOKE	75D-413 KWANGSUNG 100UH BULK	
		T702	6140R-C001C	O	O	COIL,CHOKE	75D-413 KWANGSUNG 100UH BULK	
			LED					
		LD802	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD803	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD804	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD805	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD806	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD807	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD808	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD809	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD810	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD811	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD812	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD813	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD814	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD815	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD816	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD817	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD818	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD819	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD820	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LED801	0DL325319AA	O	O	LED	SPR325MVWT31 TP ROHM GREEN/RED	
		LED802	0DL325319AA	O	O	LED	SPR325MVWT31 TP ROHM GREEN/RED	
			RELAY					
		LY701	6920R-B202A	O	O	RELAY	HRS2H-S-DC5V NINGBO HUIGANG EL	
			TRANSISTOR					
		Q101	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q102	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q103	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q104	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		Q105	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q501	0TR103709BB	O	O	TRANSISTOR	2SA1037K-Q CHIP ROHM-J	
		Q502	0TR130409BA	O	O	TRANSISTOR	KTD1304S TP KEC SOT-23 MUTING	
		Q503	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q505	0TR130409BA	O	O	TRANSISTOR	KTD1304S TP KEC SOT-23 MUTING	
		Q506	0TR130409BA	O	O	TRANSISTOR	KTD1304S TP KEC SOT-23 MUTING	
		Q730	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q731	0TR103009AF	O	O	TRANSISTOR	KRA103M-TP (KRA2203) KEC	
		Q750	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q751	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q752	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q753	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q754	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q755	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q756	0TR103009AF	O	O	TRANSISTOR	KRA103M-TP (KRA2203) KEC	
		Q760	0TR103009AF	O	O	TRANSISTOR	KRA103M-TP (KRA2203) KEC	
		Q770	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q901	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q902	0TR115100AA	O	O	TRANSISTOR	KSB1151-Y BK SAMSUNG TO-126	
		Q904	0TR102009AE	O	O	TRANSISTOR	KRA102M (KRA2202) TP KEC TO	
		Q907	0TR115100AA	O	O	TRANSISTOR	KSB1151-Y BK SAMSUNG TO-126	
		Q908	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q910	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q911	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
			TRANSISTOR					
		R102	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R104	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R105	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R106	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R107	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R108	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R109	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R110	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R111	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R112	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R113	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R114	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R115	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R116	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R117	0RH1801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R118	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R119	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R120	0RH1801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R121	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R122	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R123	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R124	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R126	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R127	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R128	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R129	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R130	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R131	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R132	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R133	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R134	0RH1501C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
		R135	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R136	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R137	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R138	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R139	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R140	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R141	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R142	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R143	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R144	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R145	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R146	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R147	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R148	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R149	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R150	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R151	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R152	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R153	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R154	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R155	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R156	0RH3303C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
		R157	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R158	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R159	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R160	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R161	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R162	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R163	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R164	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R165	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R166	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R167	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R168	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R169	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R171	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R172	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R173	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R174	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R181	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R202	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R203	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R204	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R205	0RH3902C622	O	O	RESISTOR,METAL GLAZED(CHIP)	39K OHM 1 / 16 W 1608 5.00% D	
		R206	0RH3303C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
		R207	0RH3902C622	O	O	RESISTOR,METAL GLAZED(CHIP)	39K OHM 1 / 16 W 1608 5.00% D	
		R208	0RH4703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R209	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R210	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R211	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R212	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R216	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R217	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R218	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R219	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R220	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R221	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R226	0RH0181D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.8 OHM 1 / 10 W 2012 5.00% D	
		R227	0RH0181D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.8 OHM 1 / 10 W 2012 5.00% D	
		R229	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R230	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R231	0RH2703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	270K OHM 1 / 16 W 1608 5.00% D	
		R232	0RH1803C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180K OHM 1 / 16 W 1608 5.00% D	
		R233	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R234	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R236	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R237	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R238	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R239	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R240	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R241	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R242	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R244	0RH4703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R245	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R246	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R247	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R248	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R249	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R250	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R251	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R252	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R255	0RH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R256	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R260	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R261	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R262	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R263	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R280	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R281	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R282	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R283	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R284	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R285	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R286	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R287	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R296	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R297	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R299	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R302	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R303	0RH5604C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6M OHM 1 / 16 W 1608 5.00% D	
		R304	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R305	0RH1800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180 OHM 1 / 16 W 1608 5.00% D	
		R306	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R307	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R308	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R309	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R310	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R311	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R312	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R313	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R314	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R315	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R316	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R318	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R320	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R330	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R331	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R332	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R333	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R334	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R335	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R336	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R337	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R338	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R339	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R340	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R341	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R342	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R343	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R345	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R346	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R349	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R350	0RH4703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R351	0RH1500C622	O	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R352	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R353	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R354	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R355	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R356	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R357	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R358	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R359	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R360	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R361	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R362	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R363	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R364	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R365	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R366	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R367	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R368	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R376	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R377	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R378	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R379	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R380	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R381	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R382	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R383	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R384	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R385	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R387	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R388	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R389	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R392	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R393	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R394	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R401	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R402	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R403	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R405	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R406	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R407	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R408	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R409	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R414	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R433	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R434	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R435	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R436	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R437	0RH1800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180 OHM 1 / 16 W 1608 5.00% D	
		R438	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R439	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R440	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R441	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R442	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R443	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R444	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R445	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R446	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R447	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R448	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R449	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R450	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R451	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R452	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R453	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R454	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R455	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R456	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R457	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R458	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R459	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R460	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R461	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R462	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R463	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R464	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R465	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R466	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R467	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R468	0RH4703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R469	0RH4703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R470	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R471	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R472	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R473	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R474	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R475	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R476	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R477	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R478	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R479	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R480	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R481	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R482	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R483	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R484	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R485	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R486	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R487	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R488	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R489	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R490	0RH5101C422	O	O	RESISTOR,METAL GLAZED(CHIP)	5.1K OHM 1 / 16 W 1608 1.00% D	
		R493	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R494	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R495	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R496	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R497	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R498	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R499	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R501	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R501	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R502	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R502	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R503	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R504	0RH1202C422	O	O	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 1.00% D	
		R505	0RH1202C422	O	O	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 1.00% D	
		R506	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R507	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R508	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R510	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R511	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R512	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R513	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R514	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R515	0RH1803C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180K OHM 1 / 16 W 1608 5.00% D	
		R516	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R517	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R518	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R519	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R522	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R523	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R524	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R525	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R526	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R527	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R528	0RH3303C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
		R529	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R530	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R531	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R532	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R534	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R535	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R536	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R537	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R538	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R539	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R540	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R541	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R542	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R543	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R544	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R546	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R547	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R548	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R549	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R550	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R551	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R552	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R553	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R554	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R555	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R556	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R557	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R558	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R559	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R560	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R561	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R562	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R563	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R564	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R565	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R566	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R567	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R568	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R569	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R570	0RH4703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R571	0RH1500C622	O	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R572	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R573	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R574	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R575	0RH8201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R576	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R577	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R578	0RH8201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R579	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R580	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R581	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R582	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R583	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R584	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R585	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R586	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R587	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R588	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R589	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R590	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R591	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R592	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R593	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R594	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R595	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R596	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R597	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R598	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R599	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R5A1	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R5A2	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R5A3	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R5A5	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5A6	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5A7	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R600	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R601	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R602	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R603	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R604	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R605	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R606	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R607	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R608	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R609	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R610	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R611	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R612	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R613	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R614	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R615	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R616	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R618	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R622	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R623	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R624	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R625	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R626	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R627	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R628	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R629	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R630	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R631	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R632	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R633	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R634	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R635	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R636	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R637	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R638	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R639	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R648	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R649	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R650	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R651	0RH1800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180 OHM 1 / 16 W 1608 5.00% D	
		R652	0RH0822C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82 OHM 1 / 16 W 1608 5.00% D	
		R653	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R654	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R655	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R656	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R657	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R659	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R660	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R661	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R662	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R663	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R664	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R665	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R666	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R667	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R668	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R669	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R670	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R671	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R672	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R681	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R691	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R692	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R693	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R694	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R695	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R696	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R697	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R700	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R701	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R702	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R703	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R704	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R705	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R706	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R707	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R708	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R709	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R710	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R711	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R712	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R713	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R714	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R715	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R716	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R717	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R718	0RH2701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R719	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R720	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R721	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R722	0RH2701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R723	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R724	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R725	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R726	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R727	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R728	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R729	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R730	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R731	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R732	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R733	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R734	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R735	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R736	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R737	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R738	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R739	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R740	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R741	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R742	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R743	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R744	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R745	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R746	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R747	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R748	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R749	0RH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R750	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R751	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R752	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R753	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R754	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R755	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R756	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R757	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R758	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R759	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R760	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R761	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R762	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R763	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R764	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R765	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R766	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R767	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R768	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R769	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R770	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R7701	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R7702	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R7704	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R7705	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R7706	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R7707	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R7708	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R7709	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R771	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R7710	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7711	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7712	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R7713	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7714	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7715	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7716	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R7718	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R7719	0RH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R772	0RH7501C622	O	O	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R7720	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R7721	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R7722	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7723	0RH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R7724	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R7725	0RH2701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R7726	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R7727	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R7728	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R7729	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R773	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R7730	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R7731	0RH7501C622	O	O	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R7732	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7733	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7734	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7735	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7736	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7737	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R7738	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R774	0RH5600C622	O	O	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R775	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R776	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R778	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R779	0RH5600C622	O	O	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R780	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R781	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R782	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R783	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R784	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R785	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R786	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R787	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R788	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R789	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R790	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R791	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R792	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R793	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R794	0RH1500C622	O	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R795	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R796	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	

A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R797	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R799	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R801	0RD1801F608	O	O	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	
		R802	0RD2701F608	O	O	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	
		R803	0RD3301F608	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	
		R804	0RD3901F608	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	
		R805	0RD5601F608	O	O	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	
		R806	0RD8201F608	O	O	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA26	
		R807	0RD1502F608	O	O	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA26	
		R808	0RD1801F608	O	O	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	
		R809	0RD2701F608	O	O	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	
		R810	0RD3301F608	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	
		R811	0RD3901F608	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	
		R812	0RD5601F608	O	O	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	
		R813	0RD1801F608	O	O	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	
		R814	0RD2701F608	O	O	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	
		R815	0RD3301F608	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	
		R816	0RD3901F608	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	
		R817	0RD5601F608	O	O	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	
		R818	0RD8201F608	O	O	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA26	
		R819	0RD1502F608	O	O	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA26	
		R820	0RD1802F608	O	O	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26	
		R821	0RD1802F608	O	O	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26	
		R822	0RD1802F608	O	O	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26	
		R823	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R824	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R825	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R826	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R827	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R828	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R829	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R830	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R831	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R832	0RD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R833	0RD1000F608	O	O	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	
		R834	0RD3301F608	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	
		R835	0RD2702F608	O	O	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26	
		R836	0RD8201F608	O	O	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA26	
		R837	0RD1502F608	O	O	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA26	
		R838	0RD2702F608	O	O	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26	
		R839	0RD8202F608	O	O	RESISTOR,FIXED CARBON FILM	82K OHM 1/6 W 5.00% TA26	
		R840	0RD2702F608	O	O	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26	
		R841	0RD4701F608	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	
		R842	0RD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	
		R843	0RD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	
		R844	0RD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	
		R845	0RD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	
		R846	0RD1003F608	O	O	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26	
		R847	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R848	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R849	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R850	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R851	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R864	0RD1000F608	O	O	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	
		R900	0RD1504H632	O		RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R901	614-007A	O	O	RESISTOR	2.7/2W CEMENT SMPS V	
		R902	0RS1003K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	100K OHM 2 W 5.00% TR	
		R904	0RS5602K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R905	0RD8202F608	O	O	RESISTOR,FIXED CARBON FILM	82K OHM 1/6 W 5.00% TA26	
		R911	0RS0350K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	
		R912	0RD0391F608	O	O	RESISTOR,FIXED CARBON FILM	3.9 OHM 1/6 W 5.00% TA26	
		R919	0RD4701F608	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	
		R920	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R921	0RD1201F608	O	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26	
		R922	0RS1200J619	O	O	RESISTOR,FIXED METAL OXIDE FIL	120 OHM 1 W 5.00% TR	
		R923	0RD4701F608	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	
		R924	0RD3300F608	O	O	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	
		R925	0RD2201F608	O	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	
		R926	0RD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	
		R927	0RN3601E408	O	O	RESISTOR,FIXED METAL FILM	3.6K OHM 1/8 W 1.00% TA26	
		R928	0RN3301F408	O	O	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1.00% TA26	
		R929	0RD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	
		R930	0RD4701F608	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	
		R931	0RS1200J619	O	O	RESISTOR,FIXED METAL OXIDE FIL	120 OHM 1 W 5.00% TR	
		R933	0RD1201F608	O	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26	

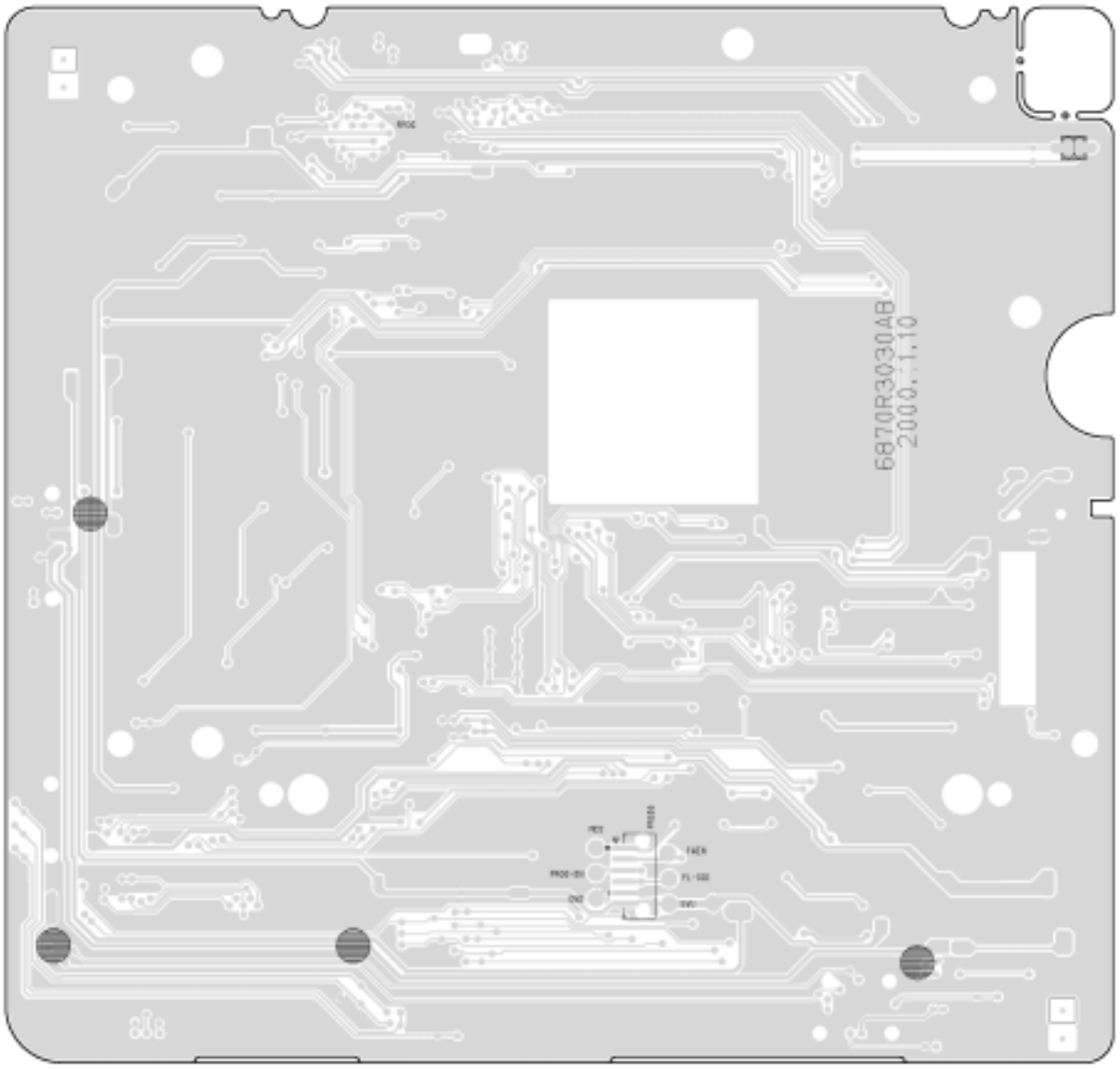
A : CDR 30(UL) , B : CDR 30(EUROPE) **RUN : 2001.02.12**

NSP : Not Service Parts

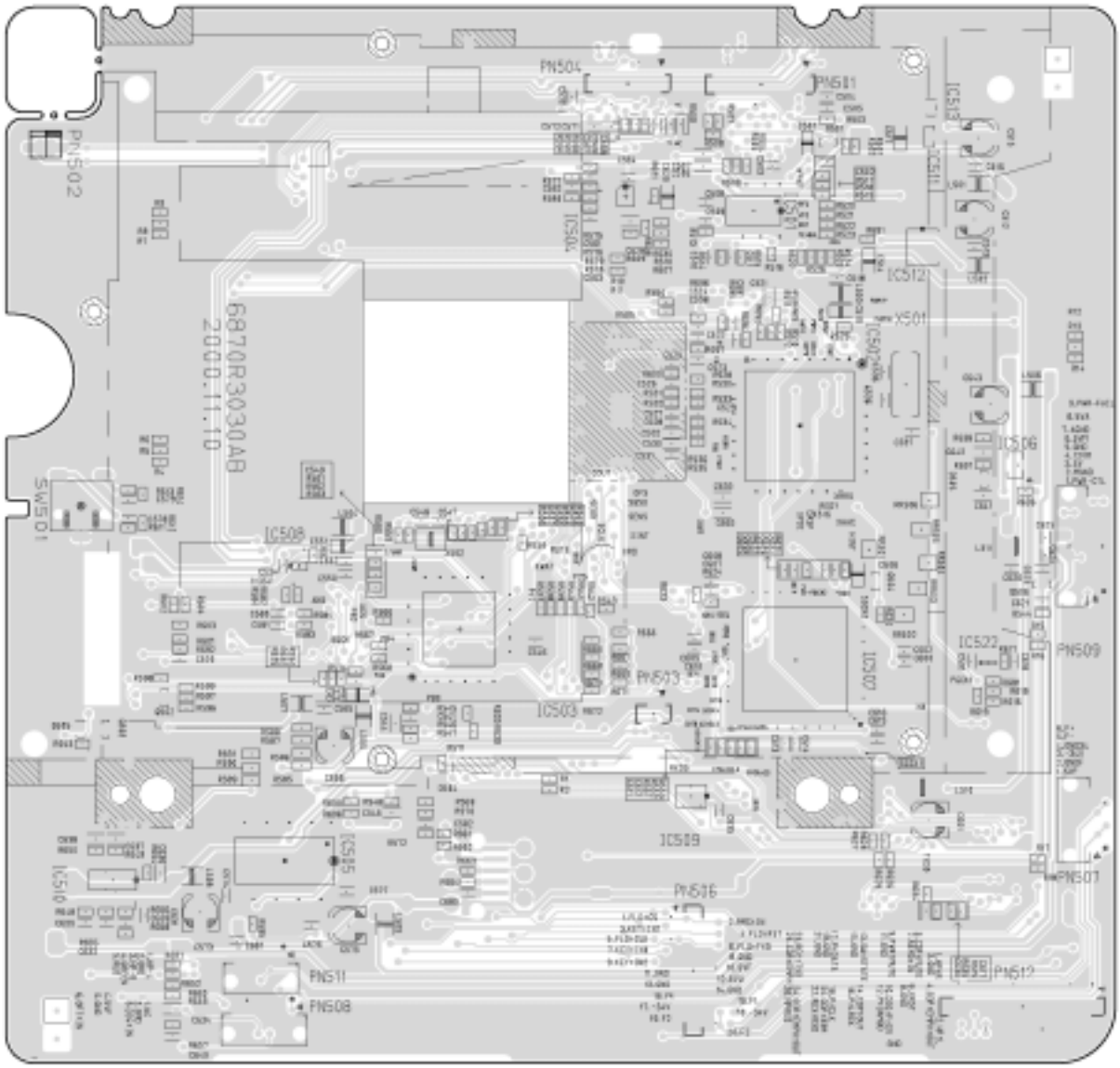
S	AL	LOCA. NO.	PART NO.(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R941	0RD1002F608	O	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	
		R942	0RD1002F608	O	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	
		R943	0RD2201F608	O	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	
		RMC801	0IRH693840A	O	O	IC,ROHM	RPM6938-V4 3P BK REMOCON MODUL	
		RR301	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR302	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR303	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR304	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR305	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR306	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR401	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR402	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR403	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR404	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR405	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR406	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR501	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR502	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR503	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR504	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR505	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR506	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
			SWITCH					
		SW101	6600HXF102A	O	O	SWITCH,DETECTOR	MPU20160MLB0 MIC NON DC5V 0.7M	
		SW501	6600HXF102A	O	O	SWITCH,DETECTOR	MPU20160MLB0 MIC NON DC5V 0.7M	
		SW801	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW802	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW803	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW804	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW805	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW806	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW807	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW808	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW809	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW810	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW811	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW812	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW813	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW814	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW815	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW816	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW817	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW818	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW819	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW820	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW821	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW822	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW823	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW824	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW825	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW826	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW827	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW828	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A	
		SW8901	6600R-PH01A	O	O	SWITCH,TACT	SDKLA10200 JAPAN ALPS UL/CSA 2	
			TRANSFORMER,RESONATOR,CRYSTAL.ZENER DIODE					
		T901	642-023Z	O	O	TRANSFORMER,SMPS	CSE-023Z SUJEONG WIDE EER-2828	
		VR801	6110R-RK01A	O	O	VOLUME,ROTARY	RK09L12B0-500BX2 J-ALPS D=9 H	
		VR802	6110R-RK01B	O	O	VOLUME,ROTARY	RK09L12B0-20KBX2 J-ALPS D=9 H	
		W917	0LR0102K035	O	O	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		X302	6212HA0202A	O	O	RESONATOR	CSACV20.00MXJ040-TC20 MURATA 2	
		X501	6202R-BM01A	O	O	CRYSTAL,SMD	HC-49/SM5H KONY CHIP 33.8688MH	
		X502	6212HA0202A	O	O	RESONATOR	CSACV20.00MXJ040-TC20 MURATA 2	
		X801	6202R-BJ01A	O	O	CRYSTAL,STANDARD	HC-49/S SUNNY RADIAL 5.0000MHZ	
		ZD901	0DZ510009EC	O	O	DIODE,ZENER	MTZJ5.1B,0.5W,TP TP ROHM	

PRINTED CIRCUIT BOARD DIAGRAMS

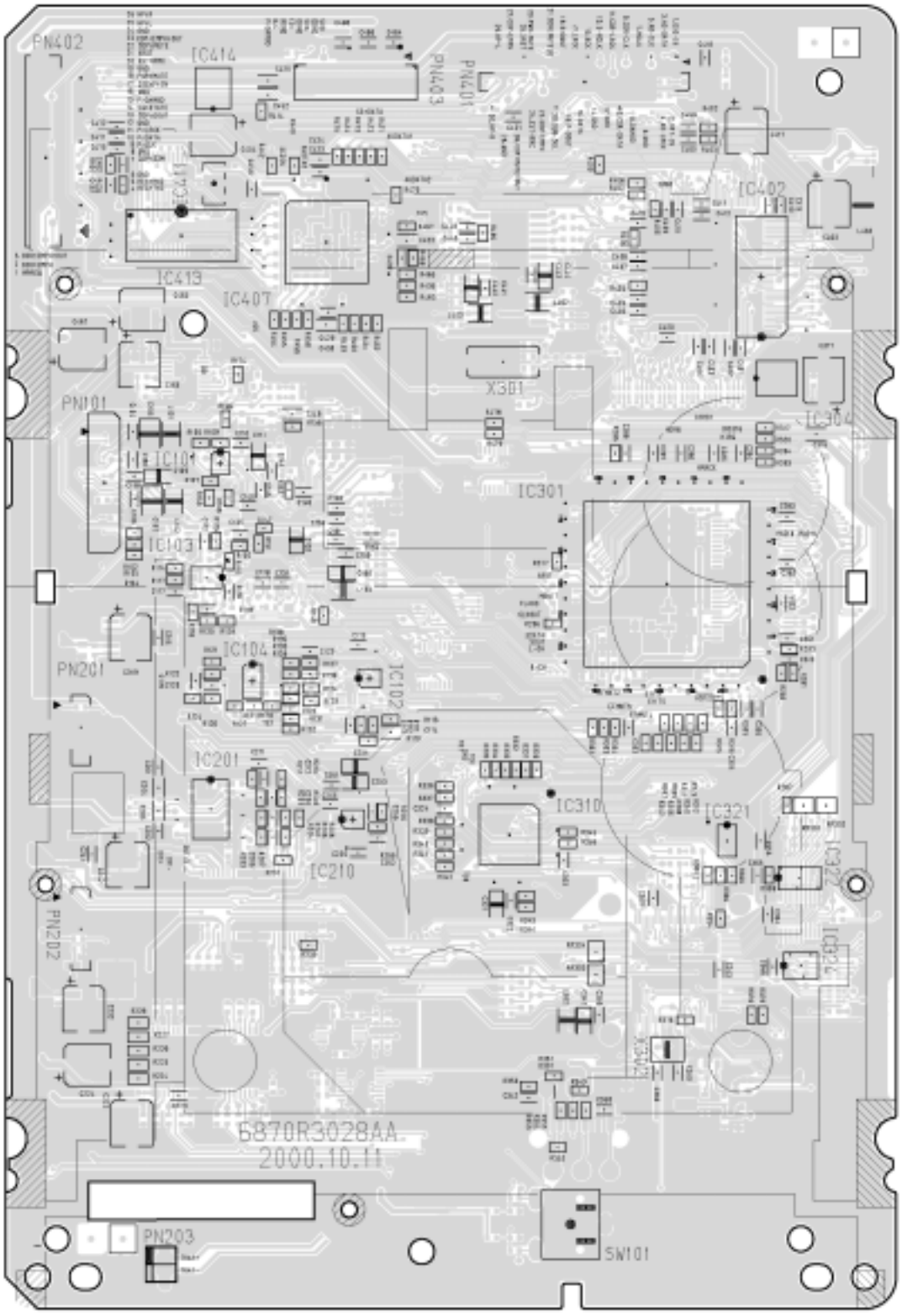
1. CD-PLAY TOP P.C.BOARD



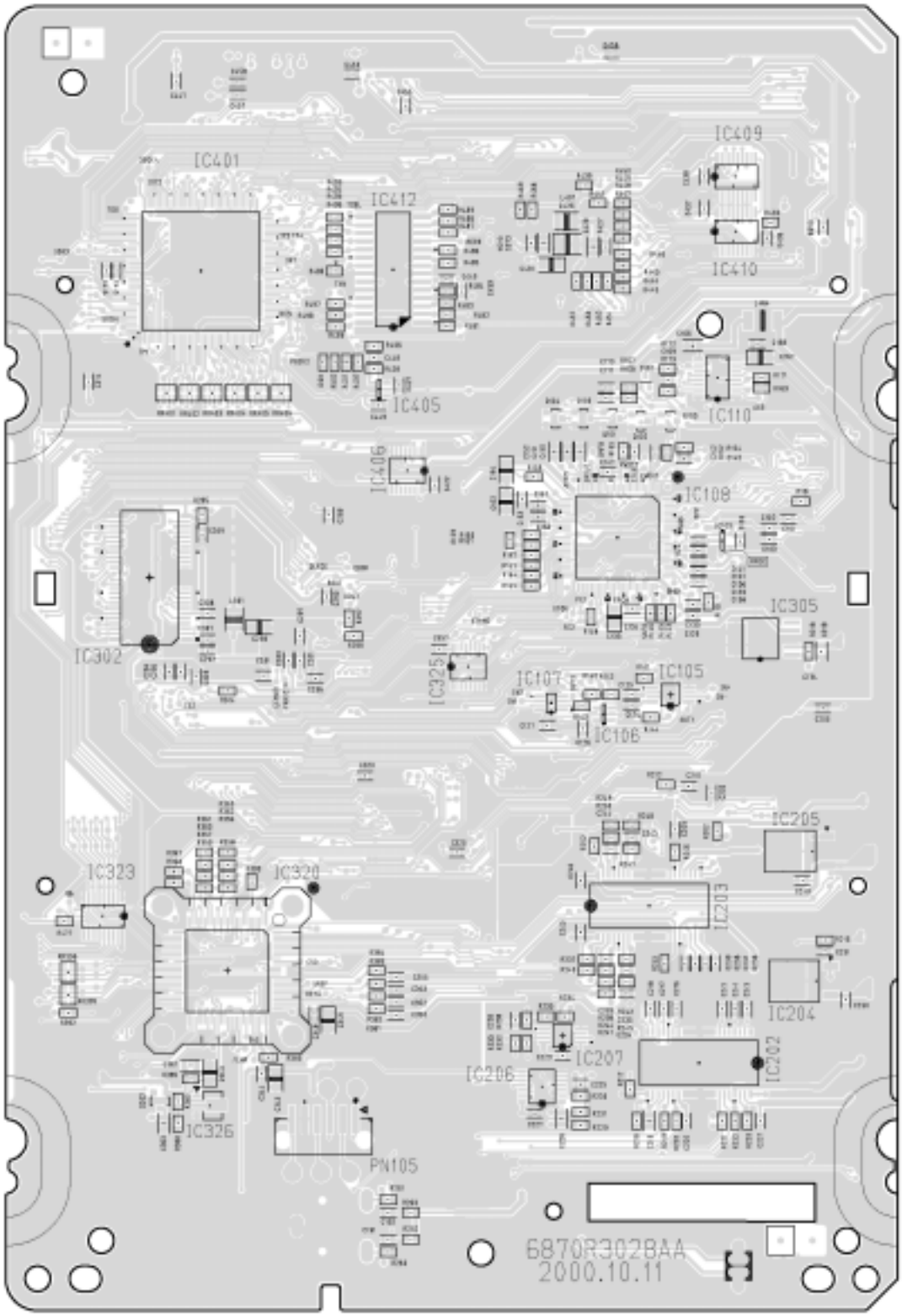
2. CD-PLAY BOTTOM P.C.BOARD



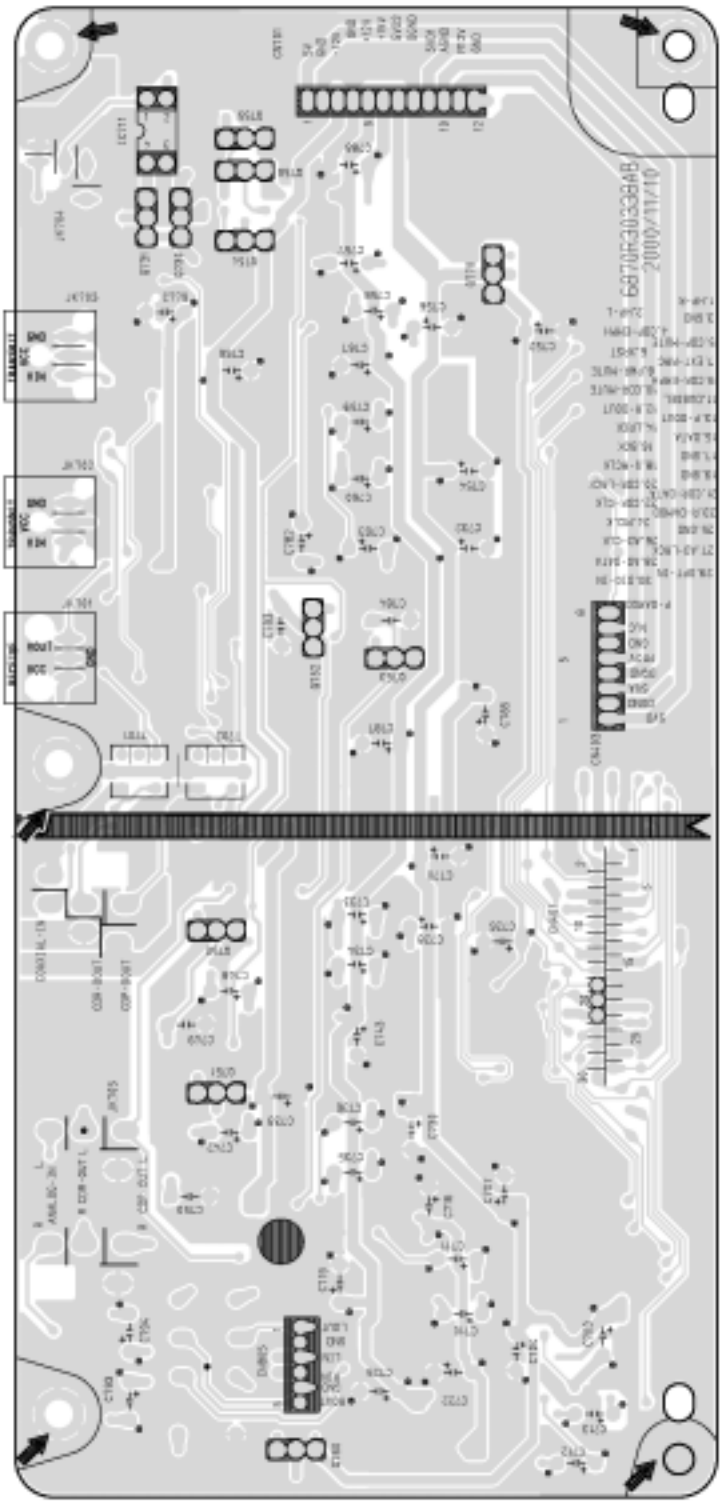
3. CD-RECORD TOP P.C.BOARD



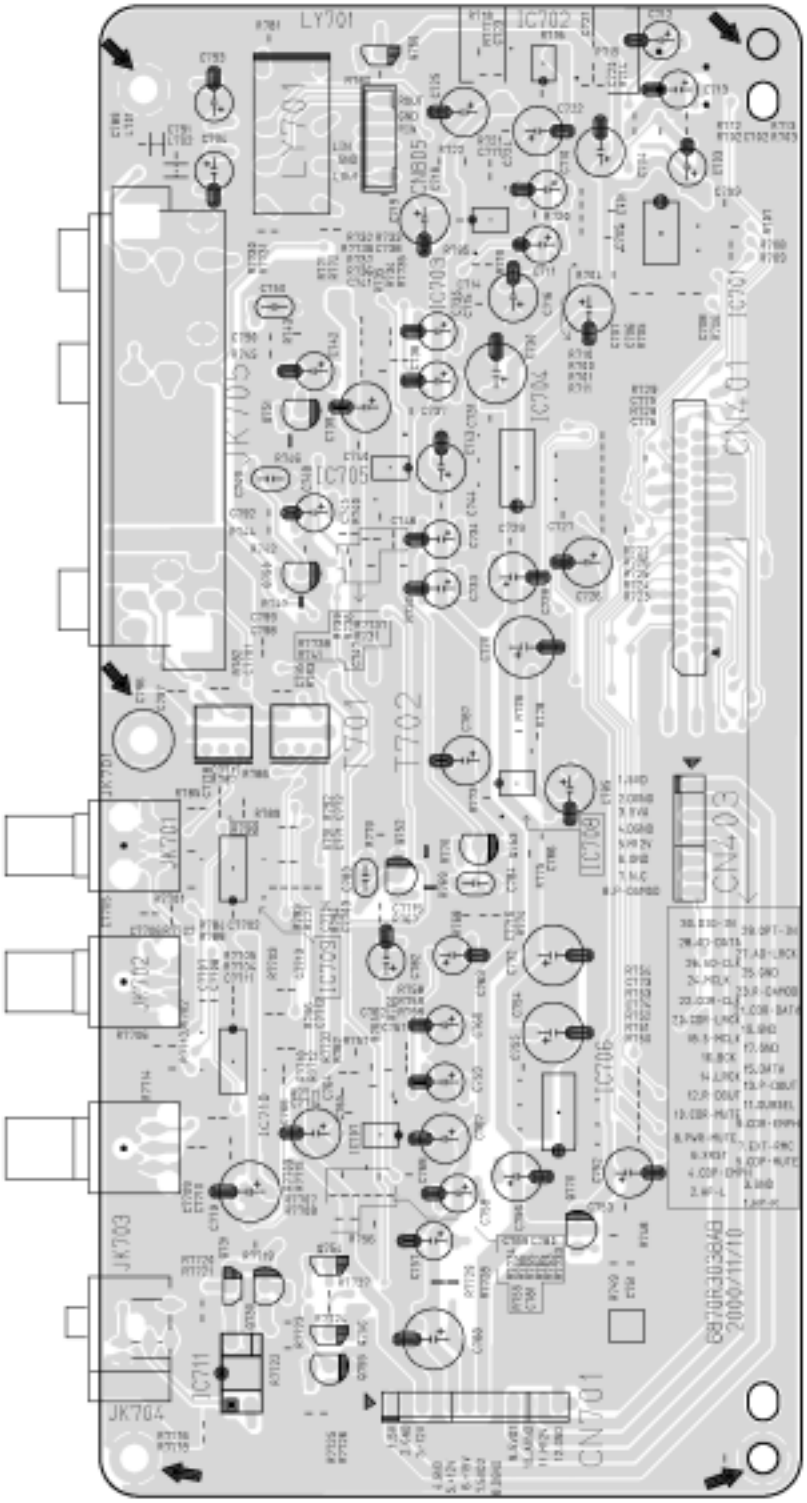
4. CD-RECORD BOTTOM P.C.BOARD

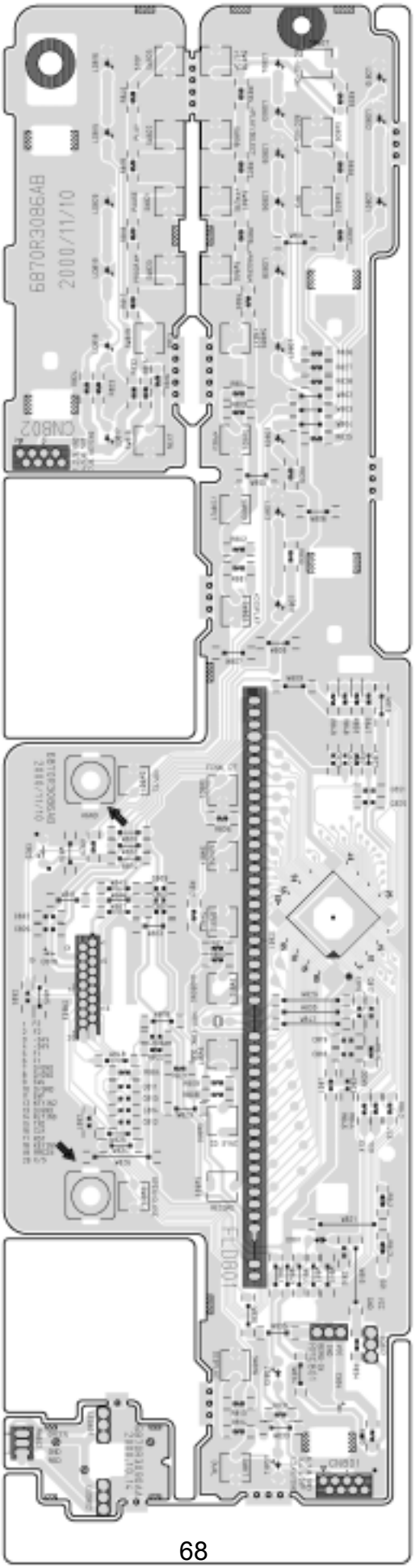


5. I/O TOP P.C.BOARD

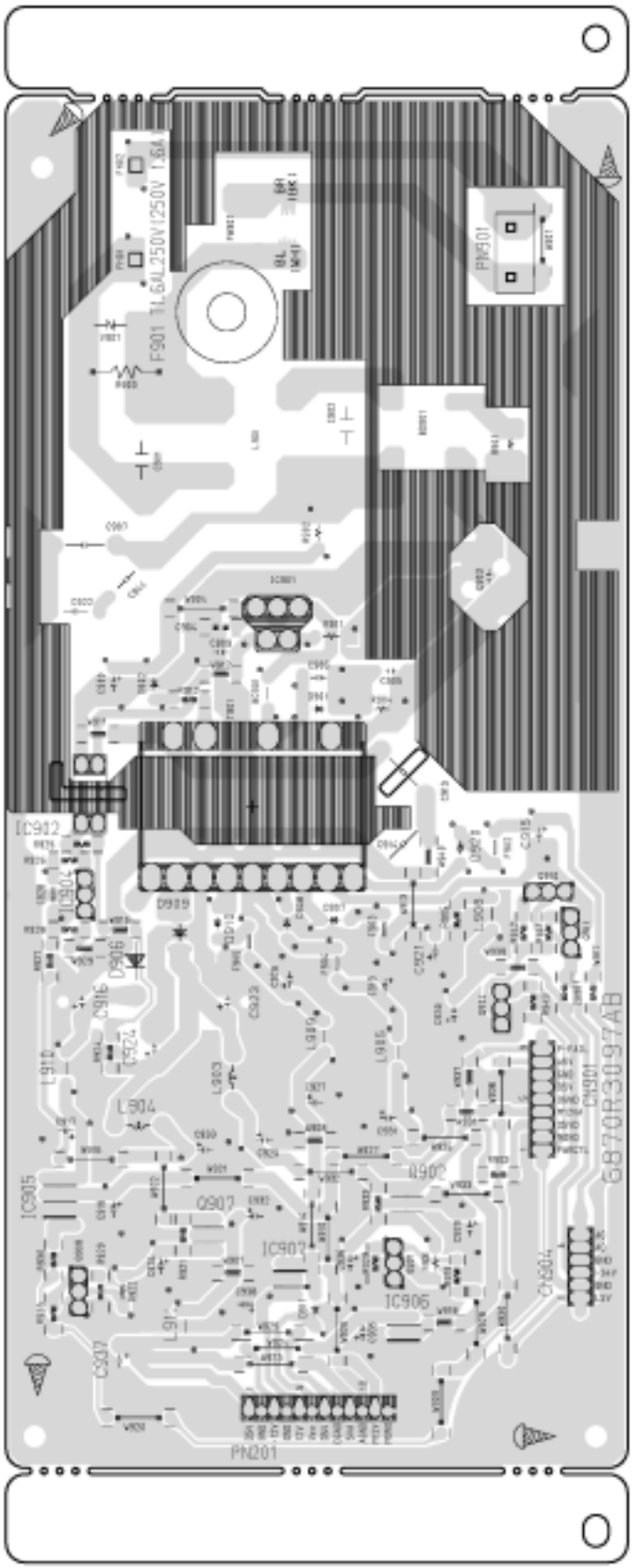


6 I/O BOTTOM P.C.BOARD

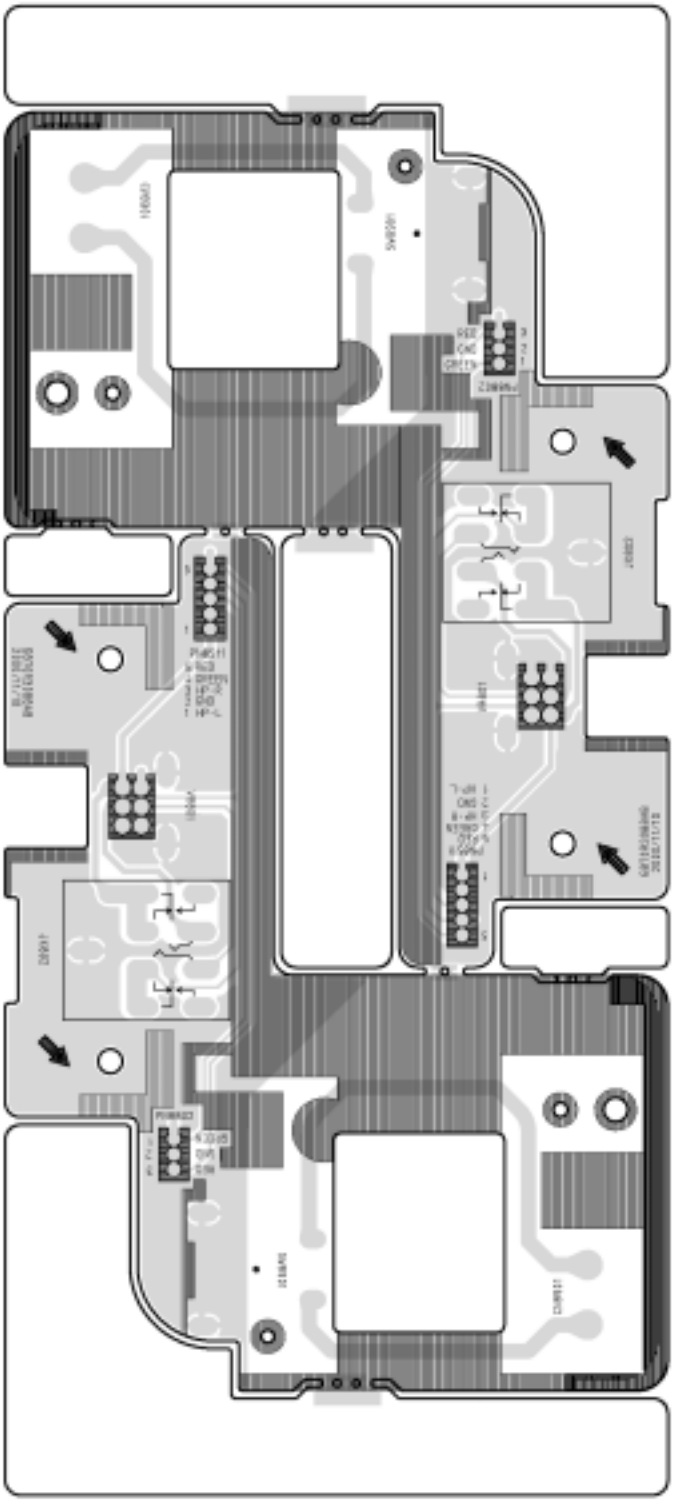



6870R3086AB
2000/11/10
CN802

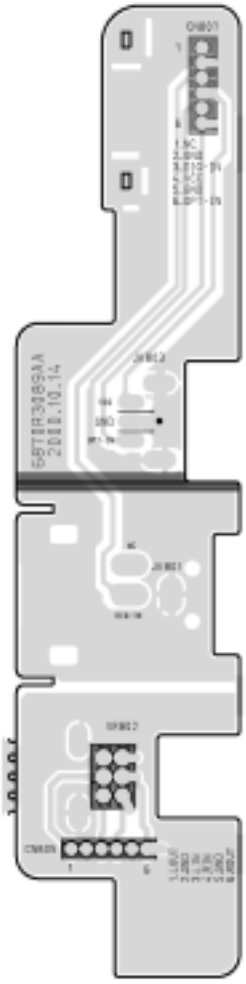
8. POWER P.C.BOARD



9. H/P P.C.BOARD

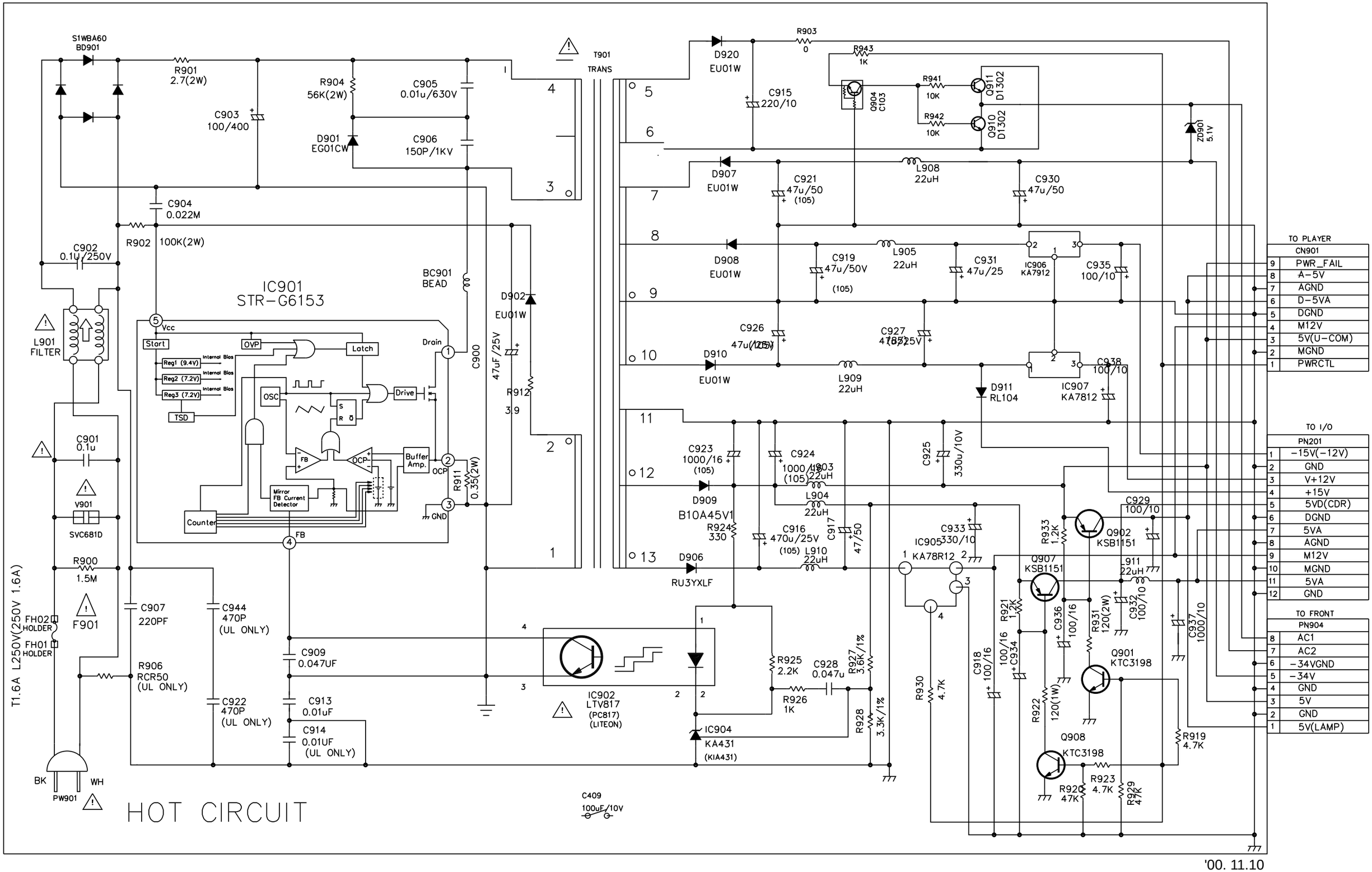


10. COAXIAL P.C.BOARD



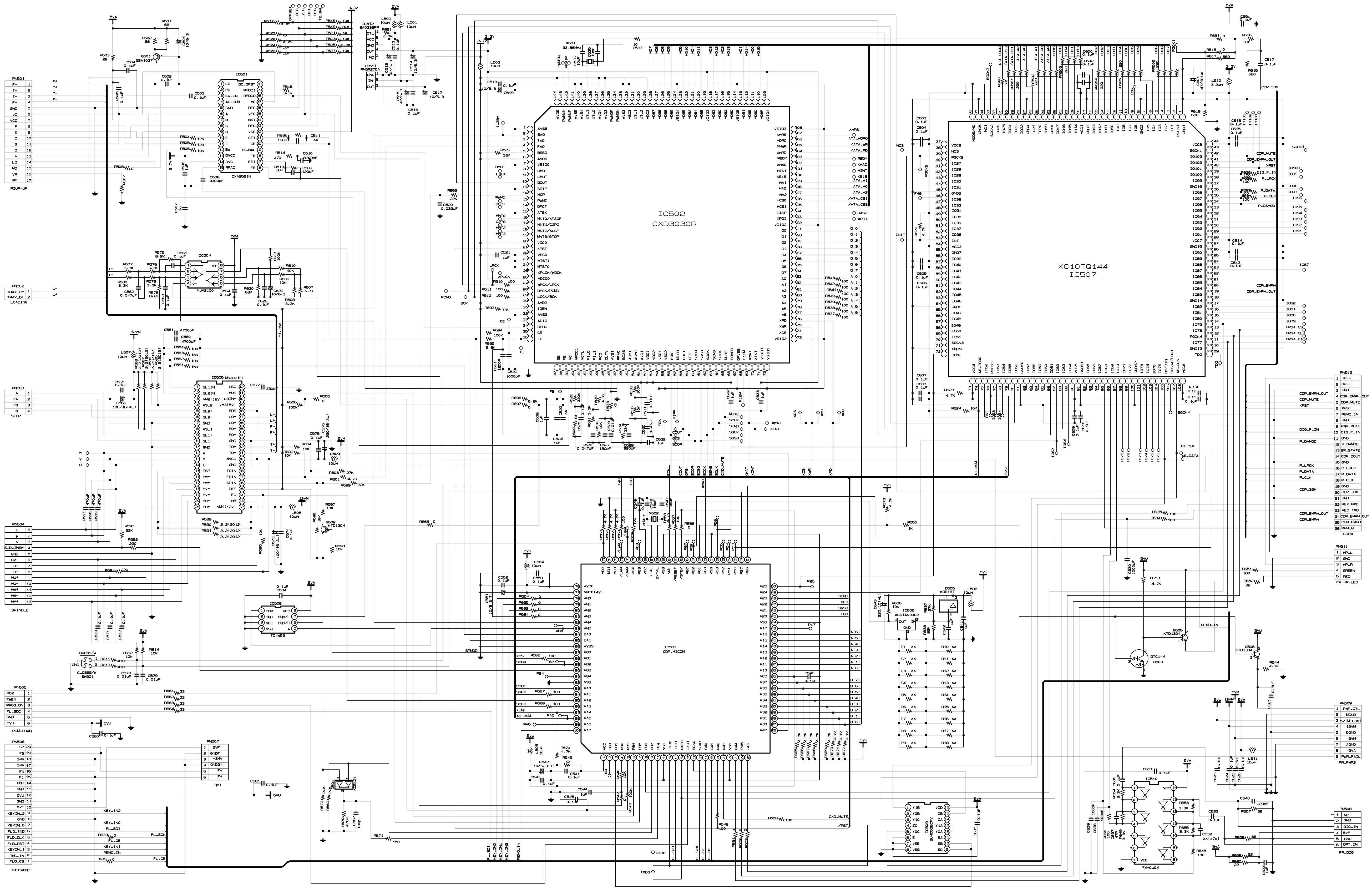
CIRCUIT DIAGRAMS

1. POWER(SMPS) CIRCUIT DIAGRAM



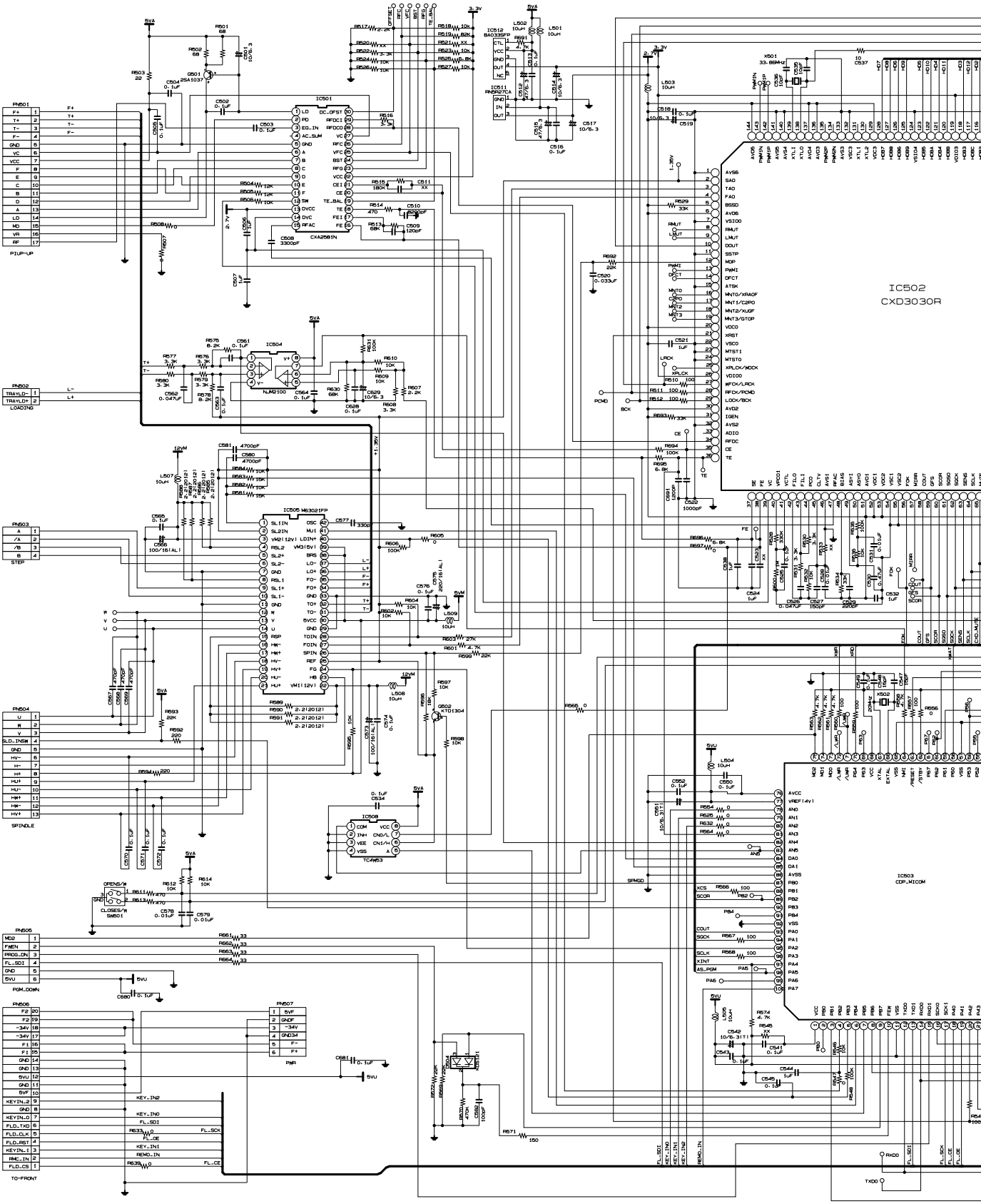
'00. 11.10
SI2448(UL)

2. CD-PLAY CIRCUIT DIAGRAM

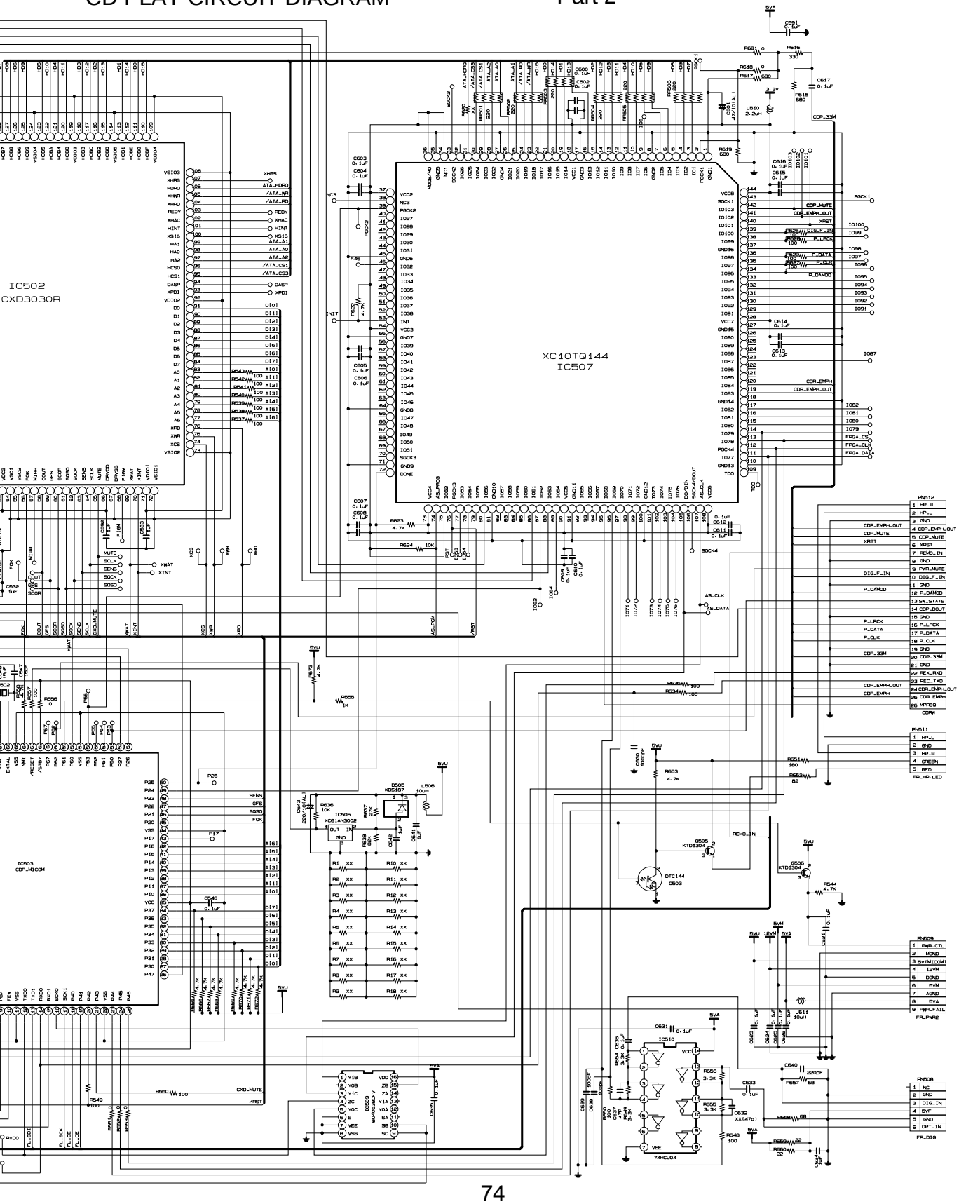


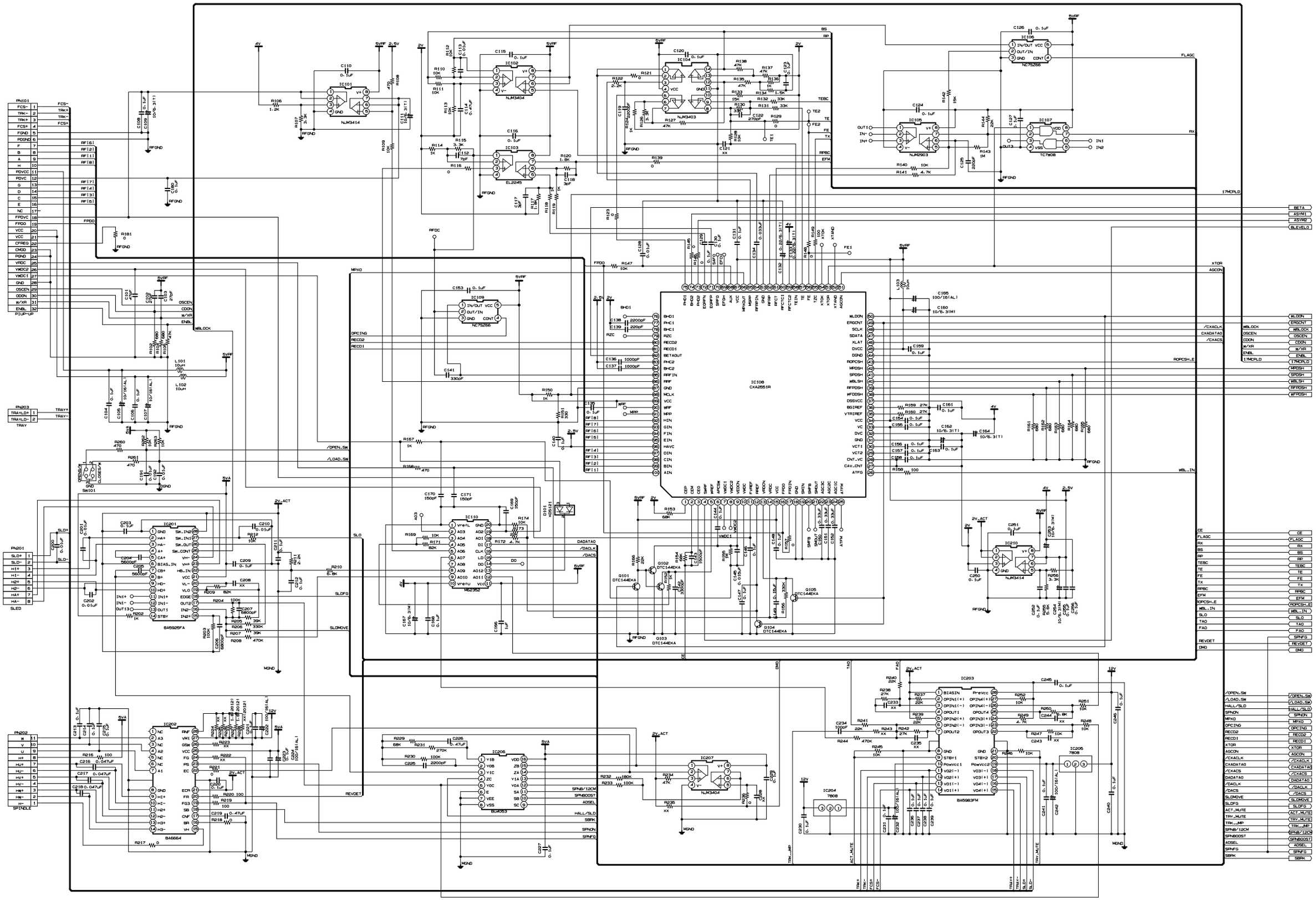
2. CD-PLAY CIRCUIT DIAGRAM

Part 1



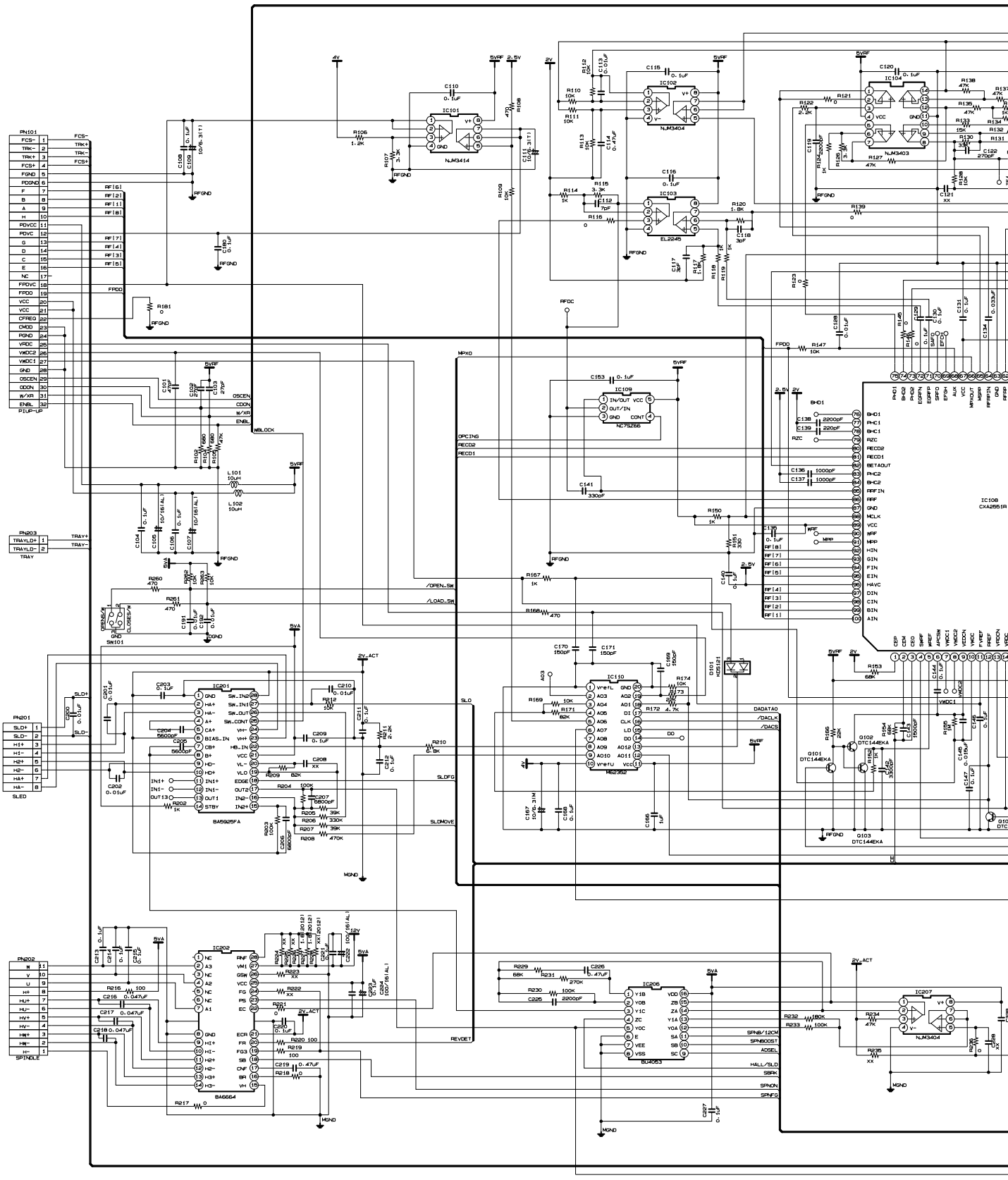
CD PLAY CIRCUIT DIAGRAM Part 2

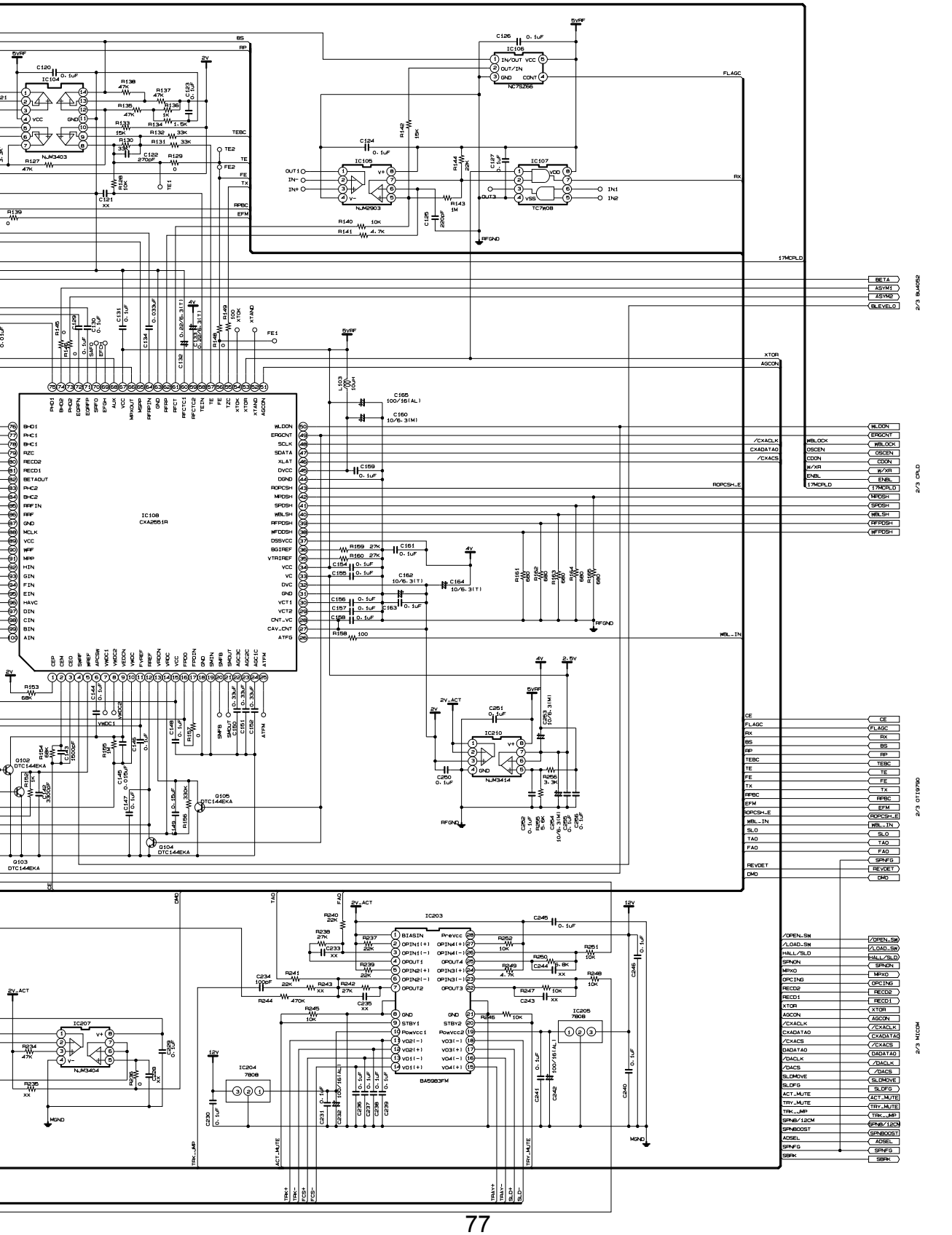


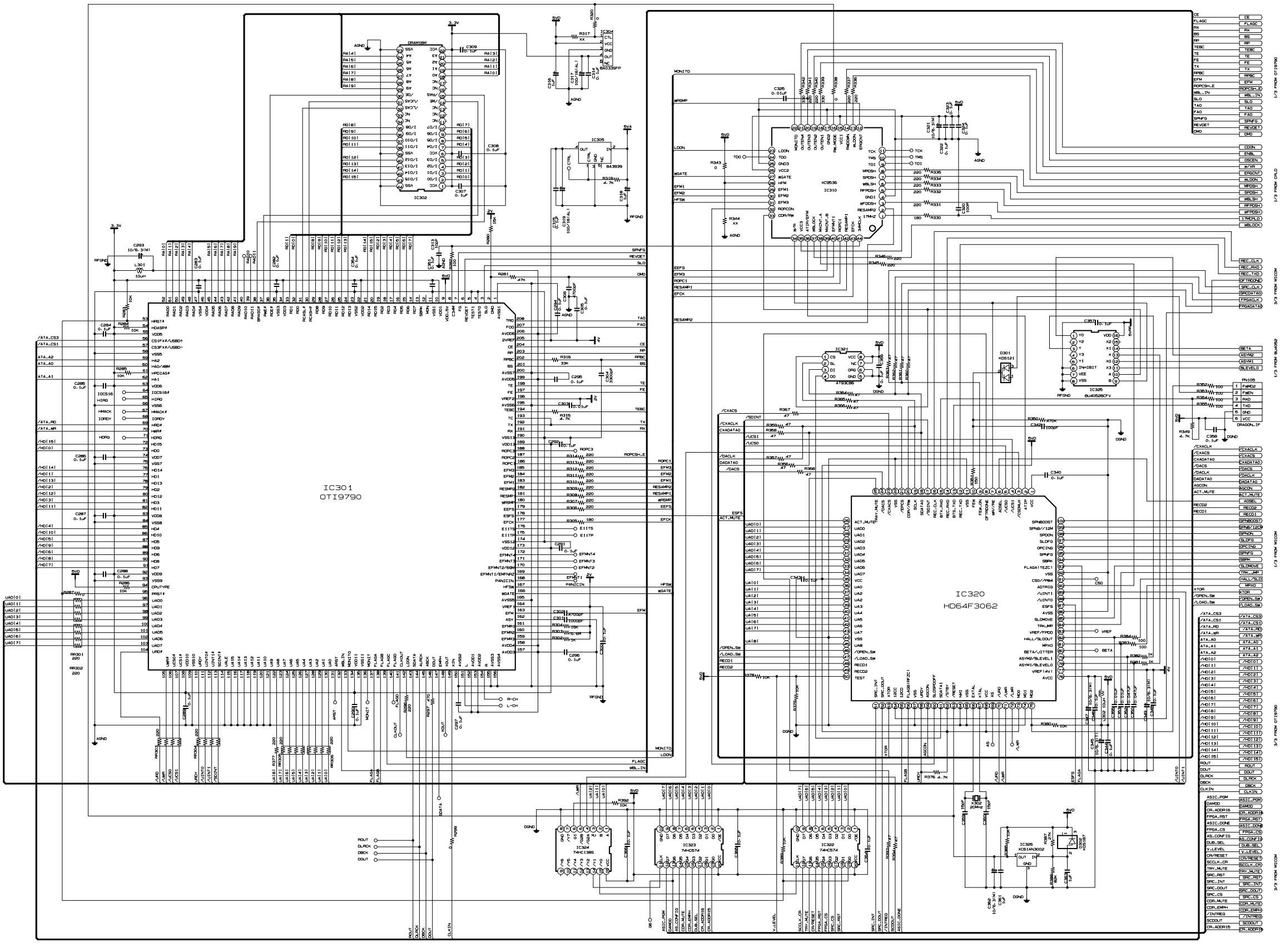


3. CD-RECORD 1 CIRCUIT DIAGRAM

Part 1

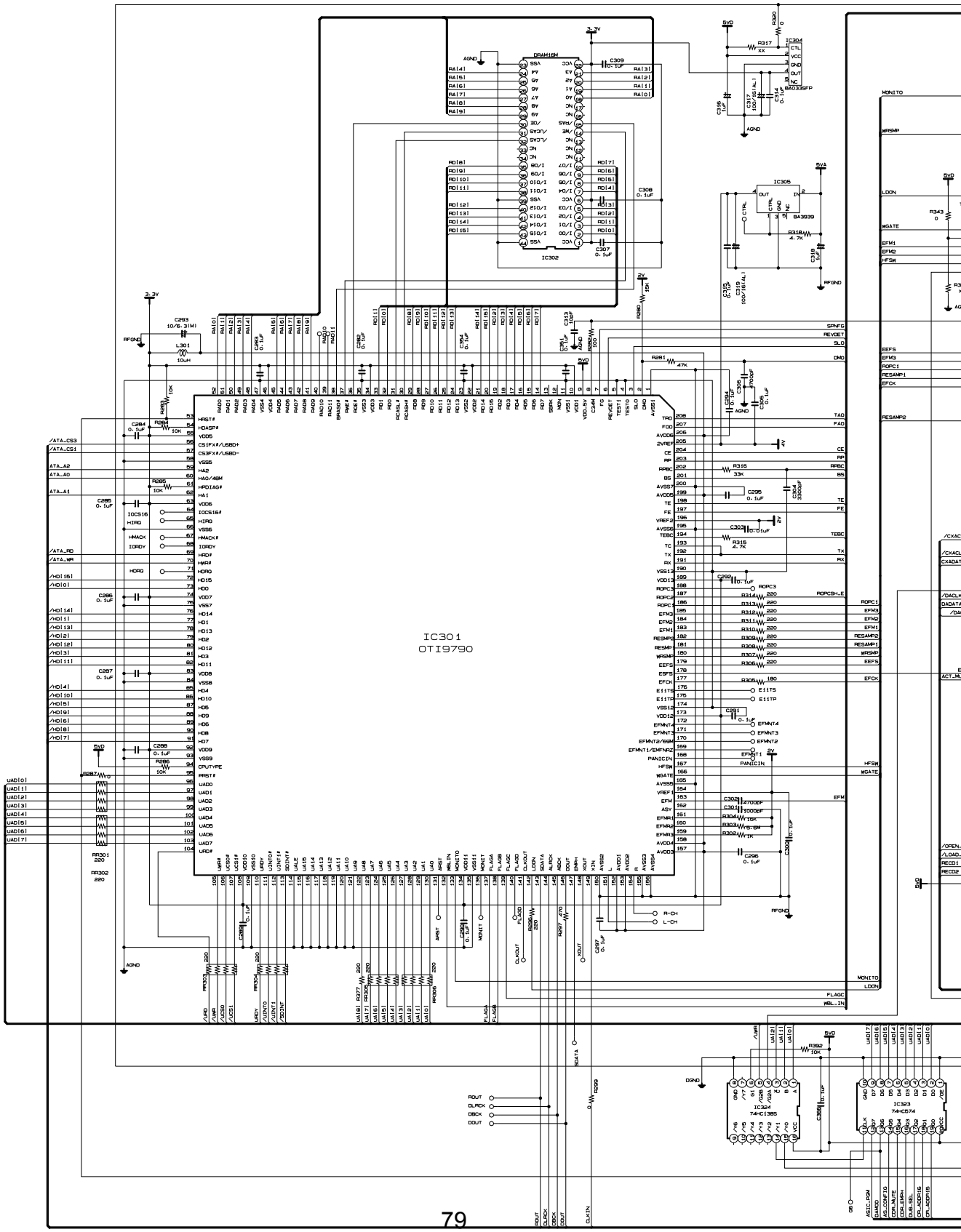


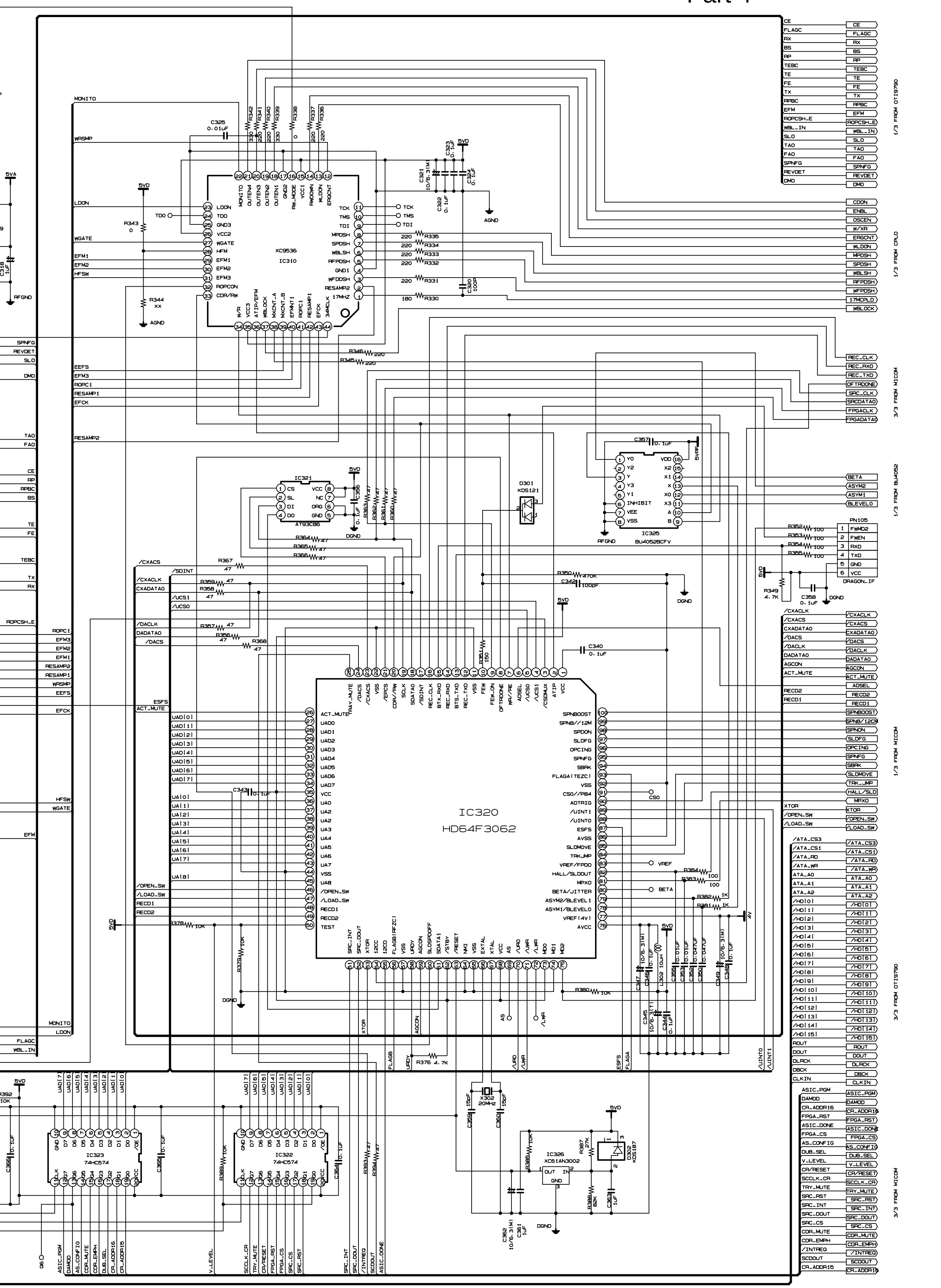

IC108
CXA2581R
IC104
NJM3403
IC105
NJM2903
IC106
NJM2766
IC107
TC7W08
IC203
BA5983FM
IC204
7808
IC205
7808
IC207
NJM3404
IC210
NJM3414
Q102 DTC144EKA
Q103 DTC144EKA
Q104 DTC144EKA
Q105 DTC144EKA
5VREF
2V
4V
2.5V
12V
2V_ACT
MGND
RFGND
17MCPLD
FLAGC
RX
TEBC
TE2
TE
FE2
FE
TX
RPBC
EFM
XTOR
AGCON
WBL_IN
ROPCSH_E
RETA
ASYM1
ASYM2
BLEVEL0
2/3 BA4052
WLDON
ERGCNT
/CXACLK
CXADATA0
/CXACS
WBLOCK
OSCEN
CDON
W/XR
ENBL
2/3 CXLD
MPDSH
SPDSH
WBLSH
RFPDSH
WFPDSH
CE
FLAGC
RX
BS
RP
TEBC
TE
FE
TX
RPBC
EFM
ROPCSH_E
WBL_IN
SLO
TAO
FAO
SPNFG
REVDET
DMO
2/3 0119790
/OPEN_SW
/LOAD_SW
HALL/SLD
SPNON
MPXO
OPCING
RECD2
RECD1
XTOR
AGCON
/CXACLK
CXADATA0
/CXACS
DADATA0
/DACLK
/DACS
SLDMOVE
SLDFG
ACT_MUTE
TRV_MUTE
TRK_JMP
SPNB/12CM
SPNBOOST
ADSEL
SPNFG
SBRK
2/3 MICOM

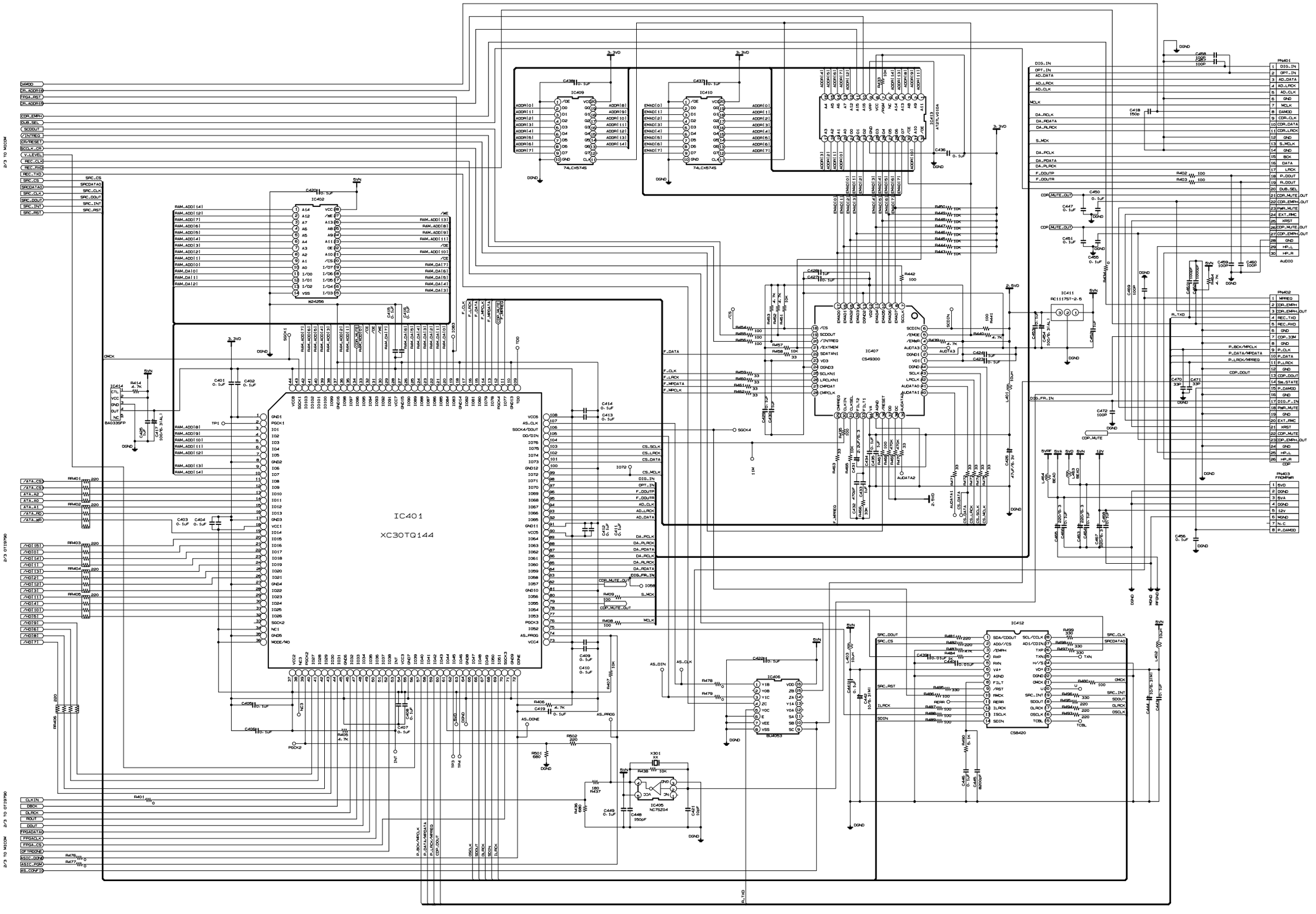

IC301
OTI9790
IC320
HD64F3062
IC310
XC9536
IC302
DRAM16M
IC304
BA033SFP
IC305
BA3939
IC321
AT93C86
IC324
74HC138S
IC323
74HC574
IC322
74HC574
IC325
BU4052BCFV
IC326
XC61AN3002
D301
KDS121
D302
KDS187
X302
20M-U
1/3 FROM DTI9790
1/3 FROM CPLD
2/3 FROM MICOM
3/3 FROM BU4052
3/3 FROM DTI9790
3/3 FROM MICOM

4. CD-RECORD 2 CIRCUIT DIAGRAM

Part 3

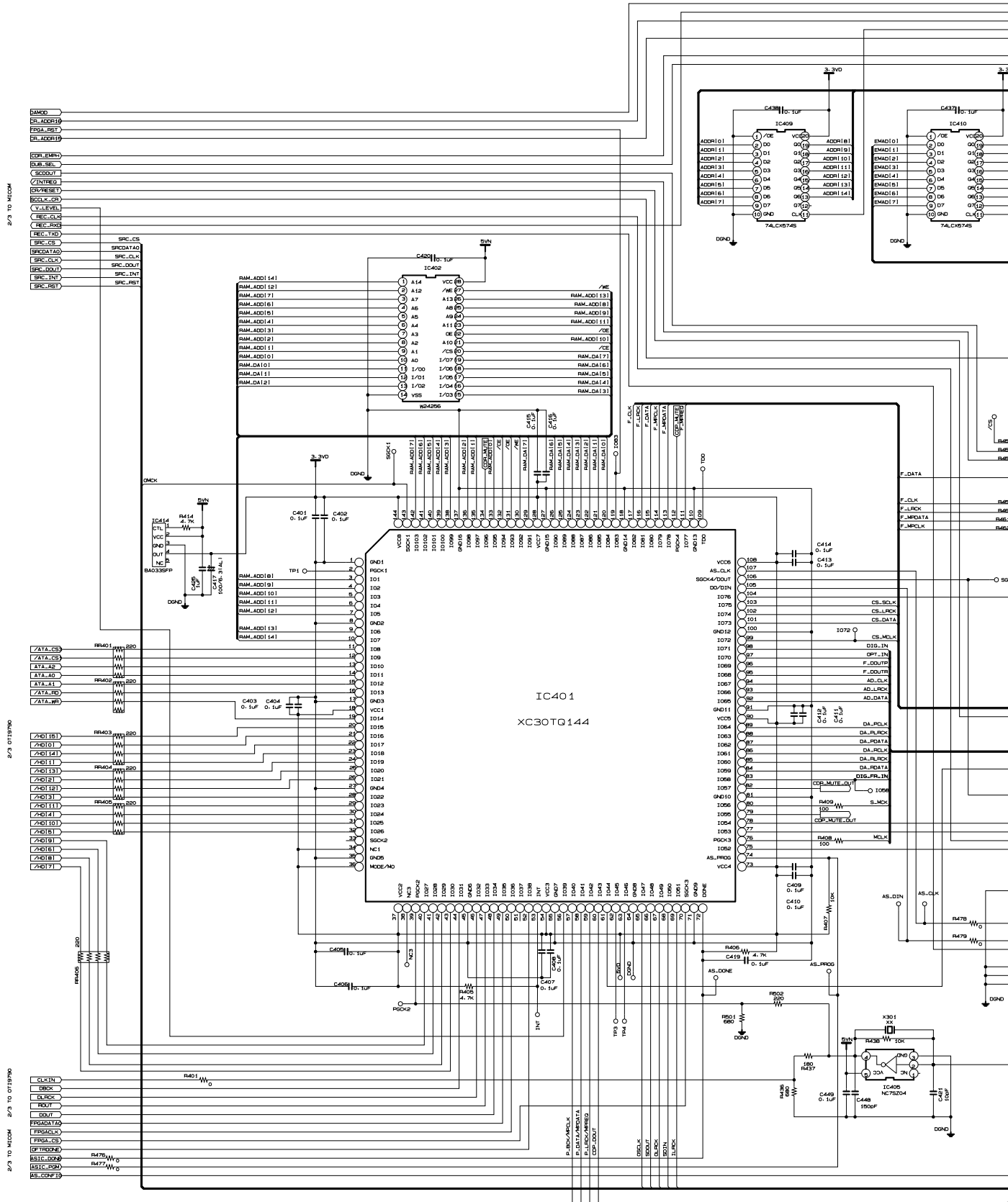


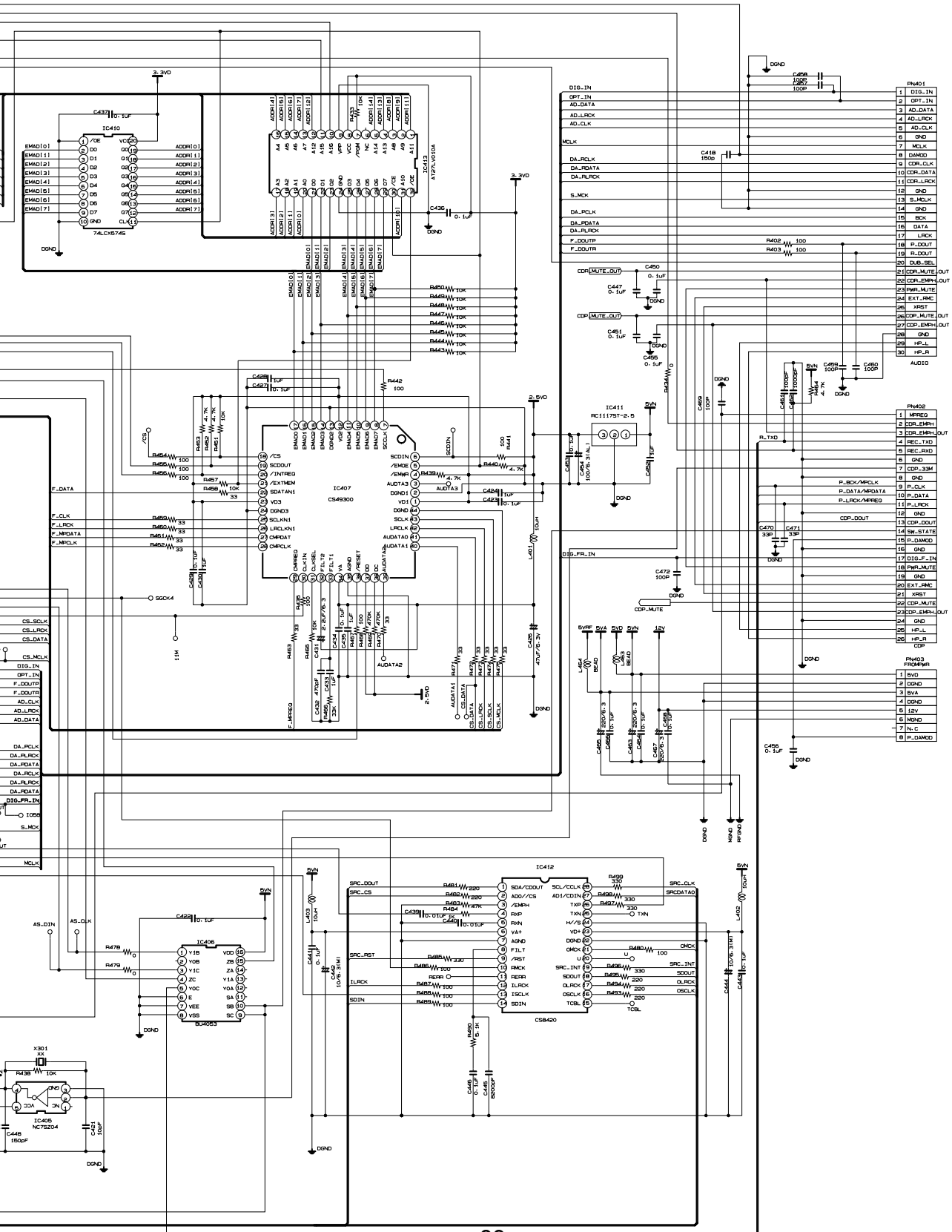

IC320
HD64F3062
XC9536
IC310
IC321
AT93C86
IC325
BU4052BCFV
IC323
74HC574
IC322
74HC574
IC326
XC61AN3002
1/3 FROM OTI9790
1/3 FROM CPLD
3/3 FROM MICOM
1/3 FROM BU4052
1/3 FROM MICOM
3/3 FROM OTI9790
3/3 FROM MICOM

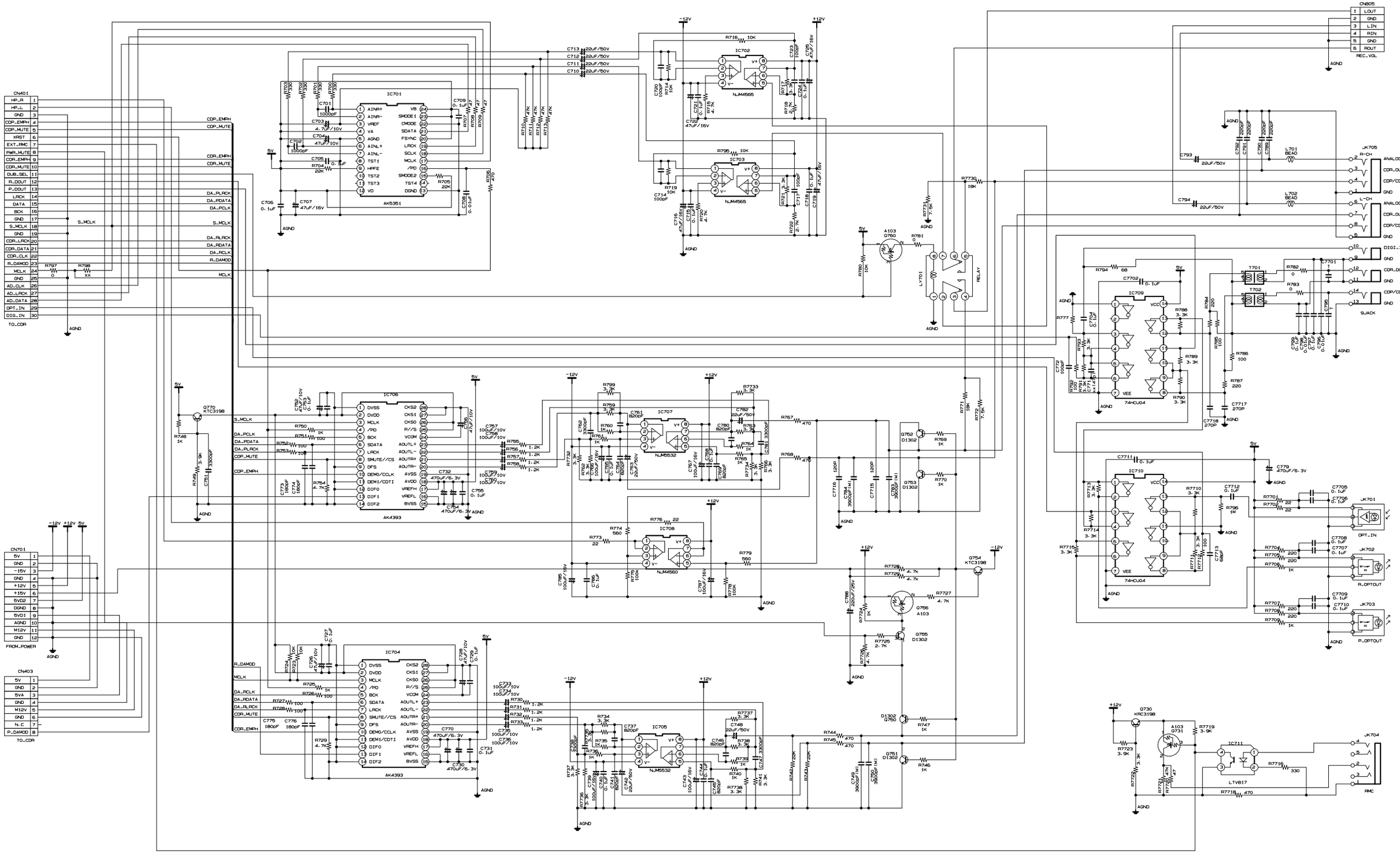

IC401
XC30TQ144
IC402
IC407
CS49300
IC409
IC410
74LCX574S
IC411
RC1117ST-2.5
IC412
CS8420
IC405
NC7SZ04
IC406
BU4053
IC414
BA033SFP
DAMOD
FPGA_RST
CDR_EMPH
DUB_SEL
SCDOUT
/INTREQ
CD/RESET
SCLK_CD
V_LEVEL
REC_CLK
REC_RXD
REC_TXD
SRC_CS
SRCDATA0
SRC_CLK
SRC_DOUT
SRC_INT
SRC_RST
CMCK
DIG_IN
OPT_IN
AD_DATA
AD_LRCK
AD_CLK
MCLK
DA_PCLK
DA_PDATA
DA_PLRCK
S_MCK
F_DOUTP
F_DOUTR
CDR_MUTE_OUT
CDP_MUTE_OUT
CDP_EMPH_OUT
PWR_MUTE
EXT_RMC
XRST
HP_L
HP_R
DIG_FR_IN
P_BCK/MPCLK
P_DATA/MPDATA
P_LRCK/MPREQ
CDP_DOUT
SH_STATE
P_DAMOD
DIG_F_IN
/ATA_CS
/ATA_A2
/ATA_A0
/ATA_A1
/ATA_RD
/ATA_WR
/HD15
/HD00
/HD14
/HD01
/HD13
/HD02
/HD12
/HD03
/HD11
/HD04
/HD10
/HD05
/HD09
/HD06
/HD08
/HD07
CLKIN
DBCK
DLRCK
RDOUT
DOUT
FPGADATA0
FPGACLK
FPGA_CS
CFTRDONE
ASIC_DONE
ASIC_PGM
AS_CONFIG
2/3 TO MICOM
2/3 TO 0119790
2/3 TO 0119790
2/3 TO MICOM

5. CD-RECORD 3 CIRCUIT DIAGRAM

Part 5

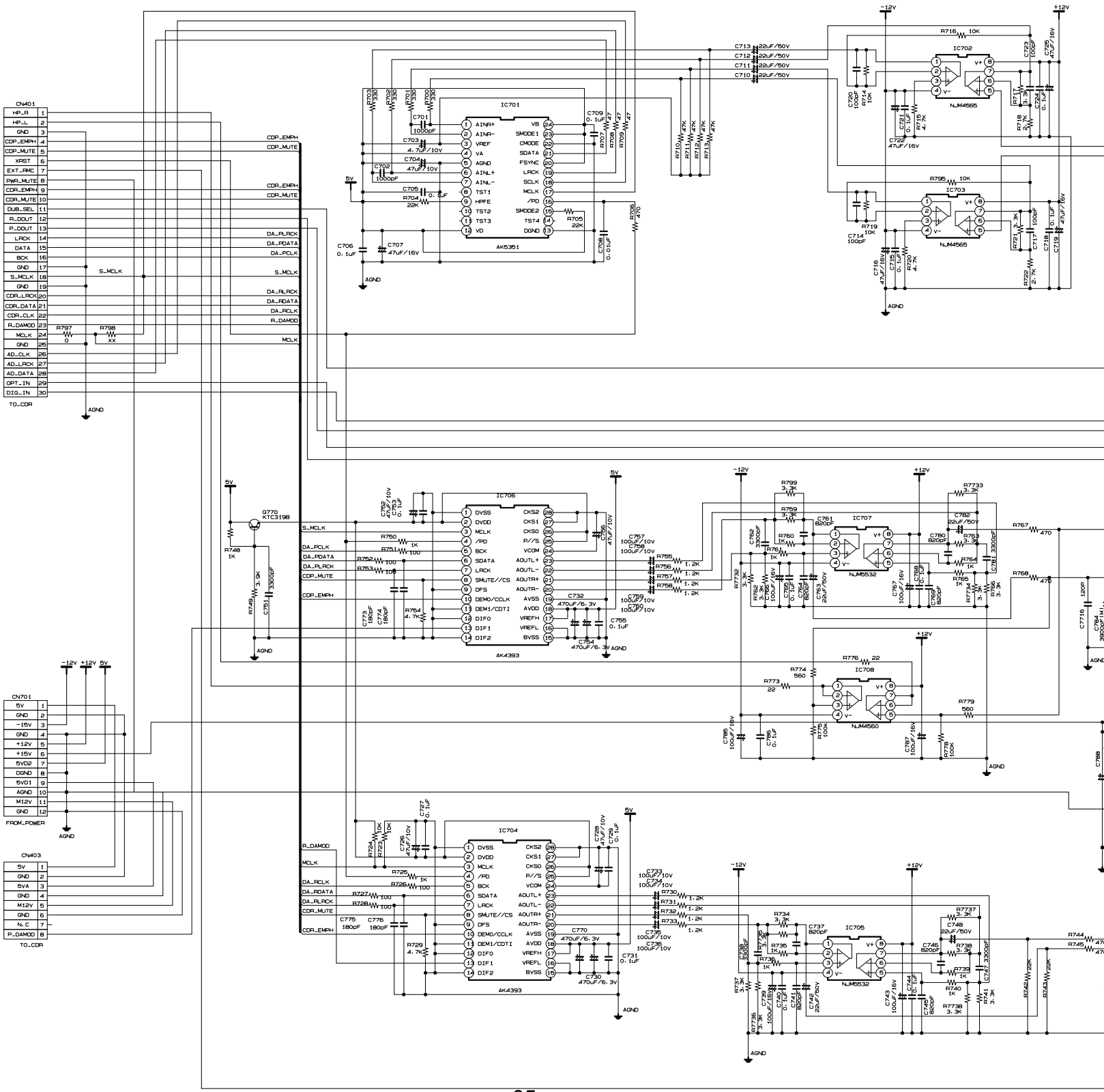





CN401
TO_CDR
IC701
AK5351
IC702
IC703
NJM4565
IC704
IC705
IC706
AK4393
IC707
IC708
NJM4560
IC709
74HCU04
IC710
IC711
NJM5532
CN805
REC_VOL
JK705
JK701
JK702
JK703
9JACK
OPT_IN
R_OPTOUT
P_OPTOUT
RMC
LTV817
RELAY
LY701
T701
T702
CN701
FROM_POWER
CN403
TO_CDR
AGND
5V
-12V
+12V

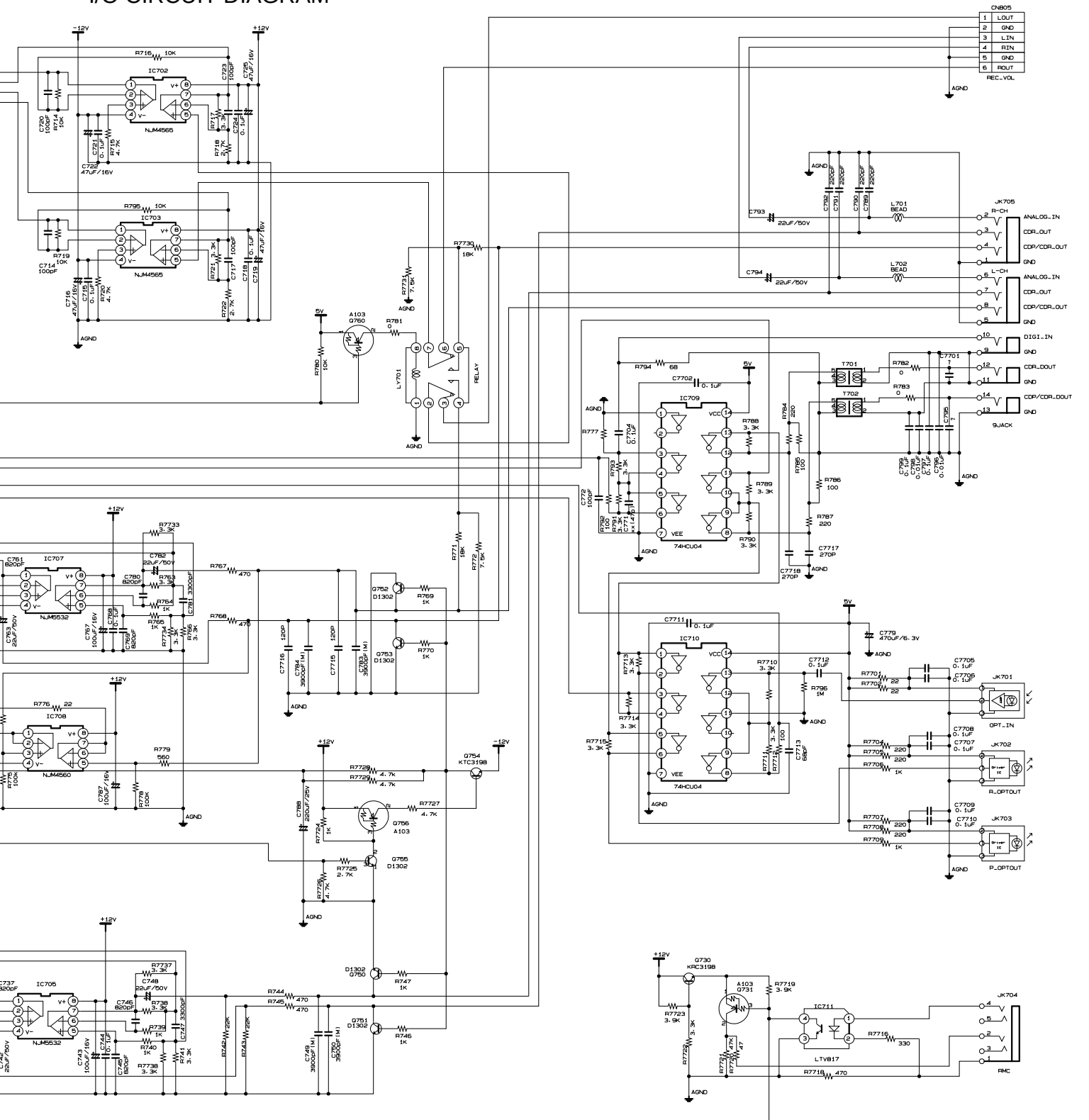
6. I/O CIRCUIT DIAGRAM

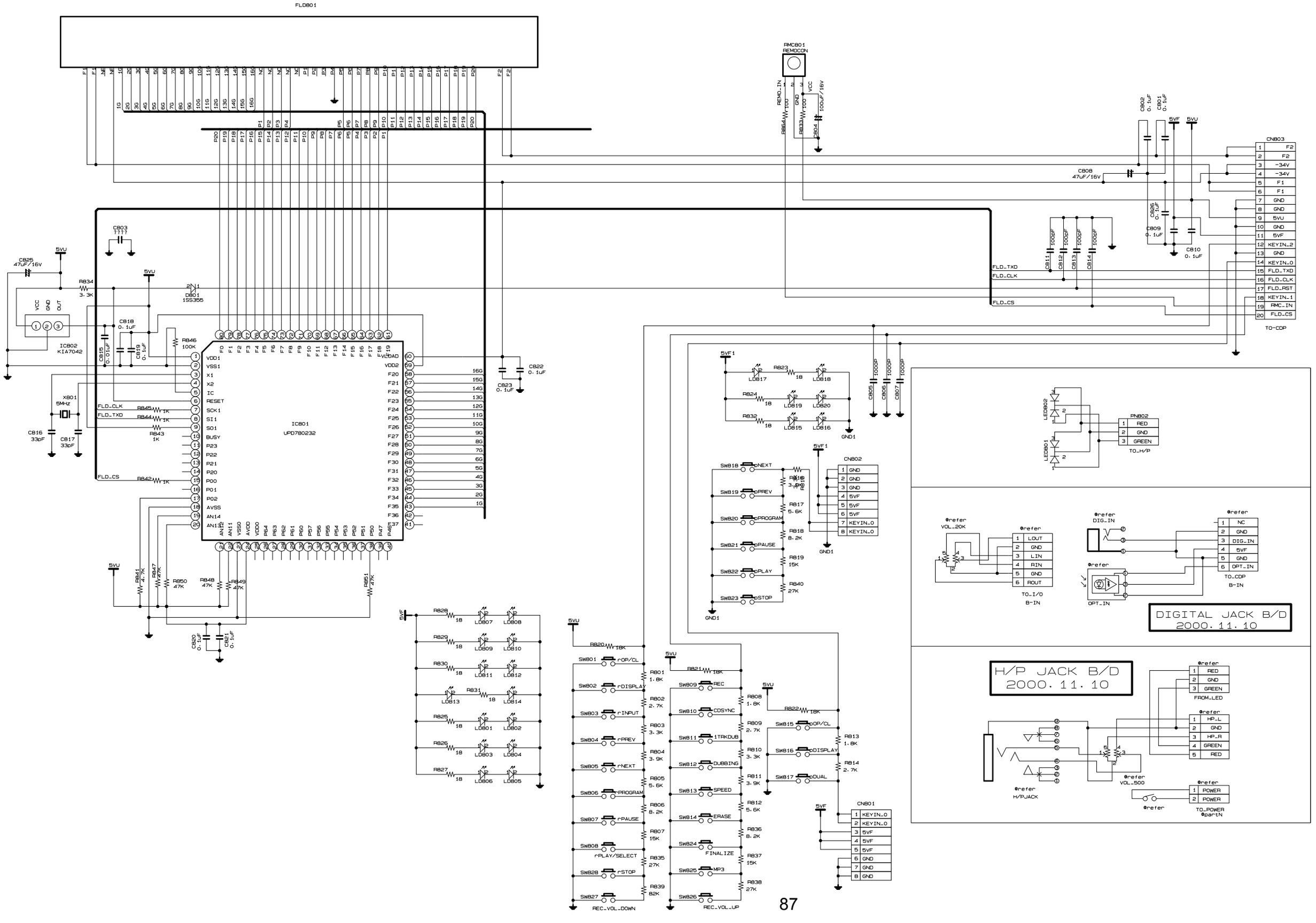
Part 1



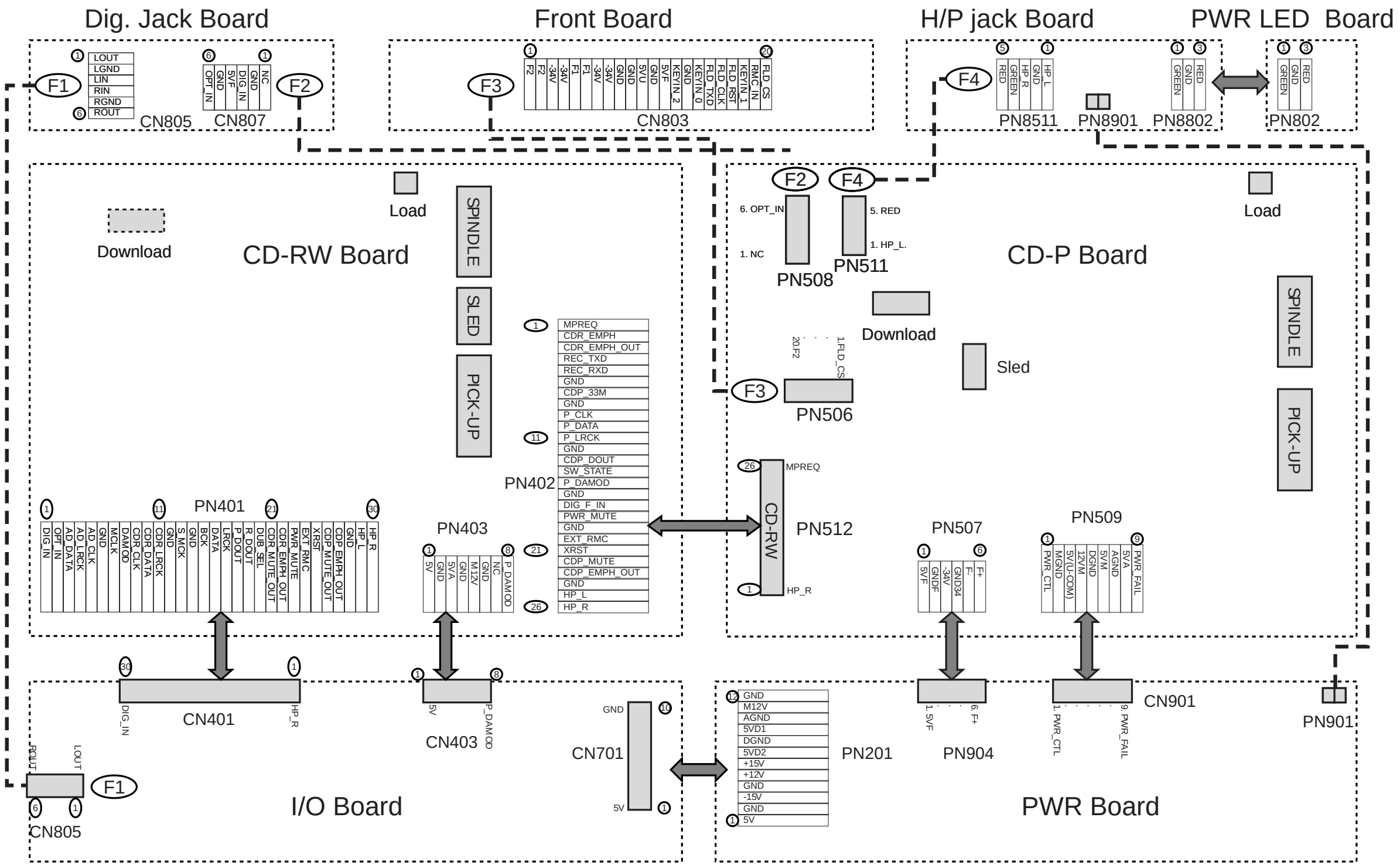
I/O CIRCUIT DIAGRAM

Part 2

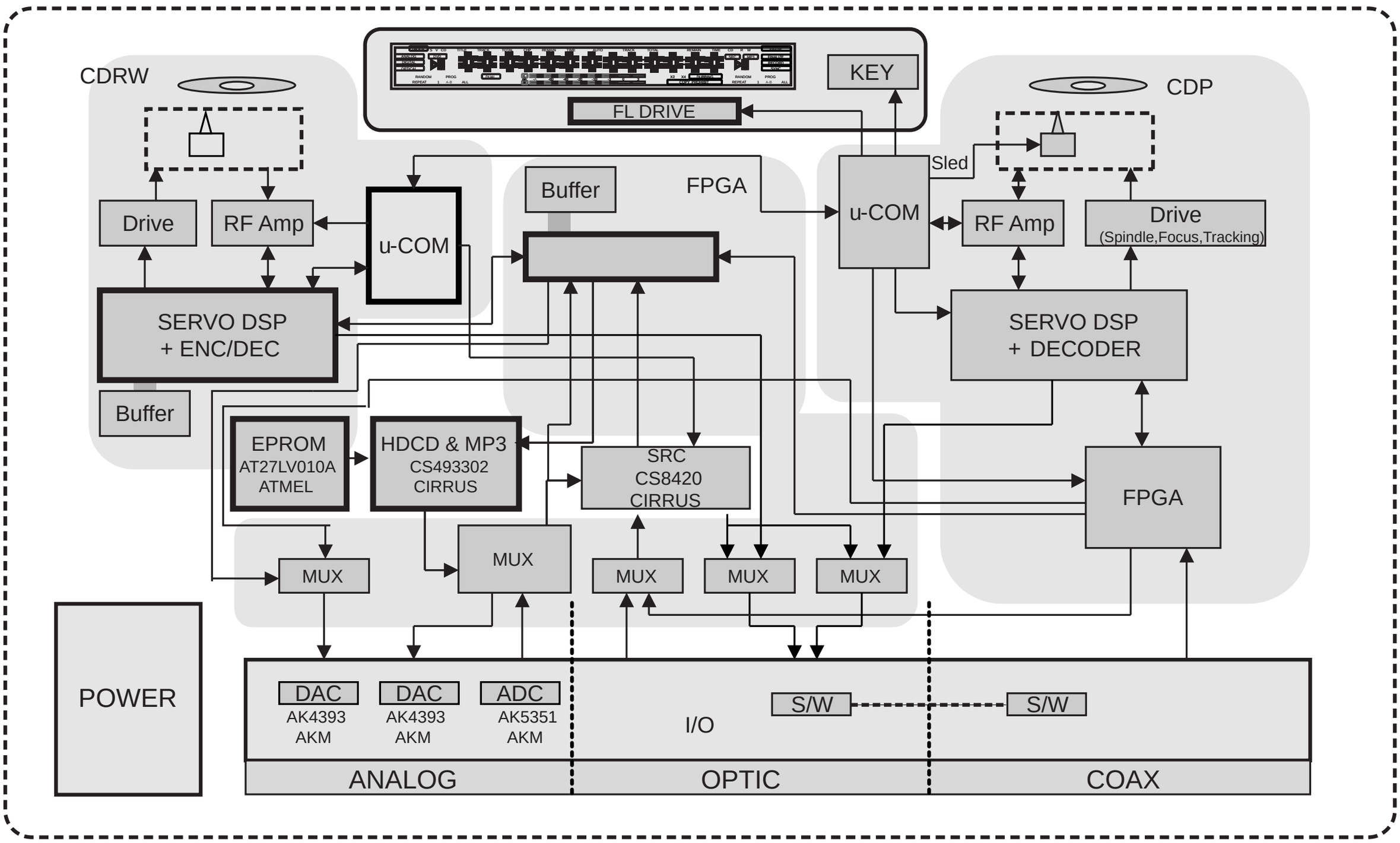



FLD801
RMC801
REMOCON
REMO_IN
GND
VCC
RB834
RB833
RB804
100uF/16V
CB02
0.1uF
CB01
0.1uF
5VF
5VU
CB08
47uF/16V
CB05
0.1uF
CB09
0.1uF
CB10
0.1uF
CN803
F2
F2
-34V
-34V
F1
F1
GND
GND
5VU
GND
5VF
KEYIN_2
GND
KEYIN_0
FLD_TXD
FLD_CLK
FLD_RST
KEYIN_1
RMC_IN
FLD_CS
TO-CDP
CB11
100PF
CB12
100PF
CB13
100PF
CB14
100PF
FLD_TXD
FLD_CLK
FLD_CS
CB25
47uF/16V
R834
3.3K
D801
1SS355
VCC
GND
OUT
IC802
KIA7042
CB18
0.1uF
CB15
0.01uF
CB19
0.1uF
R846
100K
CB03
????
5VU
XB01
5MHz
CB16
33pF
CB17
33pF
FLD_CLK
FLD_TXD
FLD_CS
R845
1K
R844
1K
R843
1K
R842
1K
IC801
UPD780232
VDD1
VSS1
X1
X2
IC
RESET
SCK1
SI1
SO1
BUSY
P23
P22
P21
P20
P00
P01
P02
AVSS
AN14
AN13
AN12
AN11
VSS0
AVDD
VDD0
VLOAD
VDD2
CB22
0.1uF
CB23
0.1uF
R841
4.7K
R847
47K
R850
47K
R848
47K
R849
47K
R851
47K
CB20
0.1uF
CB21
0.1uF
5VF1
LDB17
LDB18
LDB19
LDB20
LDB15
LDB16
R823
R824
R832
18
GND1
CB05
1000P
CB06
1000P
CB07
1000P
LED802
LED801
PNB02
RED
GND
GREEN
TO_H/P
SW818
pNEXT
SW819
pPREV
SW820
pPROGRAM
SW821
pPAUSE
SW822
pPLAY
SW823
pSTOP
RB816
3.9K
RB817
5.6K
RB818
8.2K
RB819
15K
RB840
27K
CN802
GND
GND
GND
5VF
5VF
5VF
KEYIN_0
KEYIN_0
LDB07
LDB08
LDB09
LDB10
LDB11
LDB12
LDB13
LDB14
LDB01
LDB02
LDB03
LDB04
LDB06
LDB05
R828
R829
R830
R831
R825
R826
R827
18
SW801
pOP/CL
SW802
pDISPLAY
SW803
pINPUT
SW804
pPREV
SW805
pNEXT
SW806
pPROGRAM
SW807
pPAUSE
SW808
pPLAY/SELECT
SW828
pSTOP
SW827
REC_VOL_DOWN
R801
1.8K
R802
2.7K
R803
3.3K
R804
3.9K
R805
5.6K
R806
8.2K
R807
15K
R835
27K
R839
82K
RB20
18K
RB21
18K
SW809
REC
SW810
CDSYNC
SW811
iTRKDUB
SW812
DUBBING
SW813
SPEED
SW814
ERASE
SW824
FINALIZE
SW825
MP3
SW826
REC_VOL_UP
R808
1.8K
R809
2.7K
R810
3.3K
R811
3.9K
R812
5.6K
R836
8.2K
R837
15K
R838
27K
RB22
18K
SW815
pOP/CL
SW816
pDISPLAY
SW817
pDUAL
R813
1.8K
R814
2.7K
CN801
KEYIN_0
KEYIN_0
5VF
5VF
5VF
GND
GND
GND
VOL_20K
LOUT
GND
LIN
RIN
GND
ROUT
TO_I/O
B-IN
DIG_IN
NC
GND
DIG_IN
5VF
GND
OPT_IN
TO_CDP
B-IN
OPT_IN
DIGITAL JACK B/D
2000.11.10
H/P JACK B/D
2000.11.10
RED
GND
GREEN
FROM_LED
HP_L
GND
HP_R
GREEN
RED
H/PJACK
VOL_500
POWER
POWER
TO_POWER
@partN

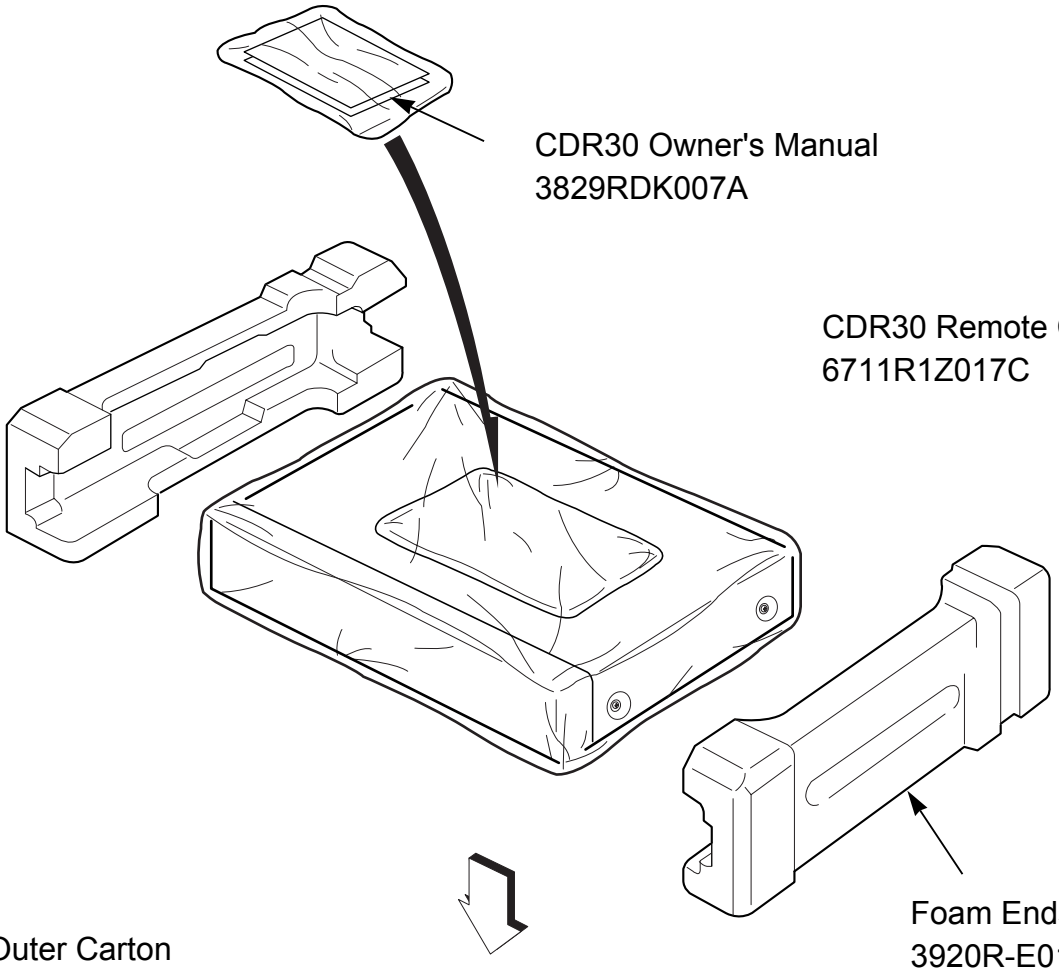
OVERALL WIRING DIAGRAM 1



OVERALL WIRING DIAGRAM 2



PACKAGE



CDR30 Outer Carton
3890R-C024A