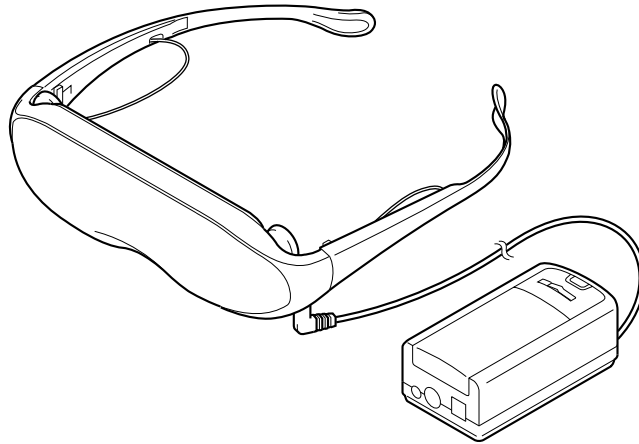


PLM-A35E

SERVICE MANUAL

AEP Model



Personal LCD Monitor
Glasstron™ Lite

SPECIFICATIONS

Power supply

AC power adaptor: AC-PLM2
100-240 V AC, 50/60 Hz, 16 W
Output voltage 9 V, 1.3 A
Battery pack: NP-F550 (not supplied)

Power consumption

1.8 W Approx.

Operating temperature

5°C to 35°C (41°F to 95°F)

Storage temperature

-10°C to 60°C (14°F to 140°F)

Dimensions

Display unit:

Approx. 173 × 53 × 56 mm
(Approx. 6 ⁷/₈ × 2 ¹/₈ × 2 ¹/₄ inches)
(w/h/d, folded up)

Power supply box:

Approx. 53 × 39 × 104 mm
(Approx. 2 ¹/₈ × 1 ⁹/₁₆ × 4 ¹/₈ inches)
(w/h/d)

not including projecting parts and controls

Mass

Display unit: Approx. 100 g (4 oz)
Power supply box: Approx. 90 g (3.2 oz)

Video signal

PAL colour, EIA standards

Audio/video input

Special minijack
1 V_{p-p}, 75 ohms, unbalanced, sync negative

S video input

4-pin mini DIN
Y: 1 V_{p-p}, 75 ohms, unbalanced, sync negative
C: 0.286 V_{p-p}, 75 ohms, unbalanced, sync negative

Supplied accessories

AC power adaptor AC-PLM2 (1)
Mains lead (1)
Audio/video cable (special miniplug ↔ phono plug) (3 m) (1)
Audio/video cable (special miniplug ↔ stereo miniplug) (0.5 m) (1)
Plug adaptors
(phono jack ↔ phono jack) (3)
Nose piece (black) (1)
Side piece pads (2)
Operating instructions manual (1)
Safety Instructions (1)
Warranty (1)

Design and specifications are subject to change without notice.

GLASSTRON

SONY®

TABLE OF CONTENTS

1. GENERAL

| | |
|---|-----|
| Glasstron is a Brand-new Concept in | |
| Visual Display | 1-1 |
| About the Glasstron | 1-1 |
| Locating the Parts and Controls | 1-1 |
| Connecting the Glasstron | 1-1 |
| Wearing the Glasstron | 1-2 |
| Using the Glasstron | 1-3 |
| Setting the User Lock | 1-4 |
| Using an Optional Battery Pack | 1-4 |
| Checking the Supplied Accessories | 1-5 |
| Precautions | 1-5 |

2. DISASSEMBLY 2-1

3. ELECTRICAL ADJUSTMENTS 3-1

4. DIAGRAMS

| | |
|---|------|
| 4-1. Block Diagram – AUDIO/VIDEO Section – | 4-1 |
| 4-2. Block Diagram – LCD Section – | 4-3 |
| 4-3. Block Diagram – KEY CONTROL/POWER SUPPLY Section – | 4-5 |
| 4-4. Note for Printed Wiring Boards and Schematic Diagrams | 4-7 |
| 4-5. Printed Wiring Board – YM-A01 Board – | 4-9 |
| 4-6. Schematic Diagram – YM-A01 Board (1/2) – | 4-11 |
| 4-7. Schematic Diagram – YM-A01 Board (2/2) – | 4-13 |
| 4-8. Schematic Diagram – RG-A01 Board – | 4-16 |
| 4-9. Printed Wiring Board – RG-A01 Board – | 4-19 |
| 4-10. Printed Wiring Board – DL-A01 Board – | 4-21 |
| 4-11. Schematic Diagram – DL-A01 Board – | 4-23 |
| 4-12. Printed Wiring Board – HP-A01 Board – | 4-25 |
| 4-13. Schematic Diagram – HP-A01 Board – | 4-27 |
| 4-14. Printed Wiring Board – DD-A02 Board – | 4-29 |
| 4-15. Schematic Diagram – DD-A02 Board – | 4-31 |
| 4-16. IC Pin Function Description | 4-41 |

5. EXPLODED VIEWS 5-1

6. ELECTRICAL PARTS LIST 6-1

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Glasstron is a brand-new concept in visual display

Congratulations on your purchase of a Sony Glasstron Personal Viewer. The Glasstron, using current technology in small, lightweight visual displays, provides a television viewing experience similar to watching a 52-inch television from a distance of approximately 2 m (6.6 feet). (Viewing experience may differ according to individual perception.)

Note on the LCD (Liquid Crystal Display)

The LCD screen is made with high-precision technology. However, black points or bright points of light (red, blue or green) may appear constantly on the LCD screen. This is not a malfunction. (Effective dots: more than 99.99%)

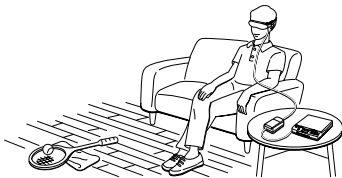
The Glasstron Personal Viewer creates an image through two separate liquid crystal displays, in close proximity to your eyes. To insure your safe use of the Glasstron, please become familiar with its basic operations, including proper fitting instructions, and be aware of any symptoms of eye fatigue or other discomfort you may experience.

WARNING

YOUR FAILURE TO FOLLOW THESE OPERATING INSTRUCTIONS MAY RESULT IN EYE FATIGUE, EYE IMPAIRMENT, OR OTHER EYE INJURY, PROPERTY DAMAGE OR DEATH.

WARNING

THIS PRODUCT SHOULD NOT BE USED BY CHILDREN AGE 15 OR YOUNGER. THE EYES OF CHILDREN ARE STILL DEVELOPING AND MAY BE ADVERSELY AFFECTED FROM USE OF THIS PRODUCT.



GB

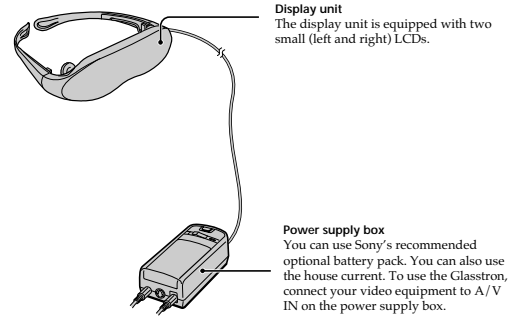
About the Glasstron

Caution: The screen is always right in front of you.

The Glasstron is a face-mounted display. With this type of display, the screen is always in front of you, even if you move your head. Because of this feature, you can concentrate on the screen more easily compared with ordinary TVs, and you have a sense of being in the action.

- It is easy to adjust the Glasstron to your eyes. You can use the display unit even while wearing glasses.
- Every time you use the Glasstron, the adjustment screen appears to help you adjust the display unit properly. You can also check whether the left and right screen positions are properly aligned or not.
- If you keep using the Glasstron continuously for three hours, a warning appears on the screen and the power will turn off automatically.

The Glasstron consists of the following items:



Features

- A powerful, big screen experience comparable to watching a 52-inch screen from approximately 2 m (6.6 feet) away.
- Handy portable folding display.
- The display unit weighs only 100 g (4 oz).
- Approximate continuous use for up to seven hours with Sony's recommended battery pack, NP-F550.

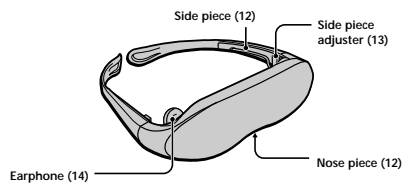
3-GB

5-GB

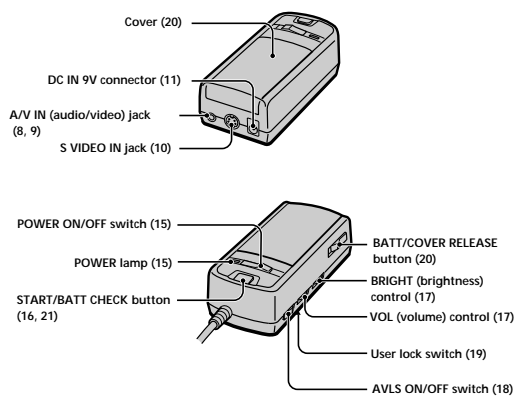
Locating the parts and controls

Refer to the pages indicated in parentheses () for details.

Display unit



Power supply box

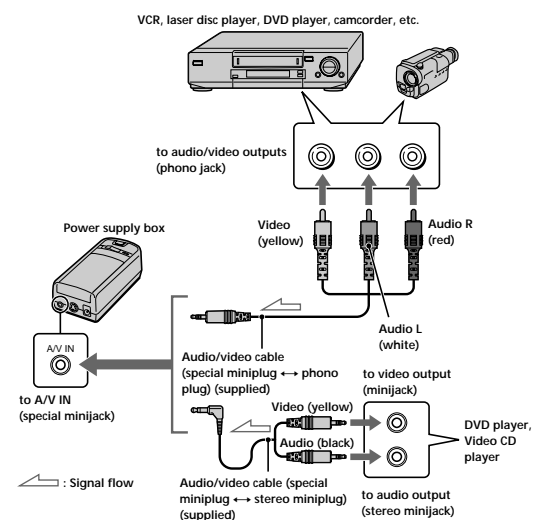


Getting Started

Connecting the Glasstron

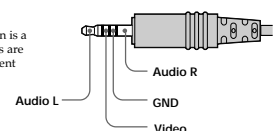
Connecting video equipment

Connect a VCR, laser disc player, DVD player, or camcorder to the power supply box as shown below. Two AV cables are supplied. Select the correct AV cable according to the shape of the connectors on the unit to be connected.



About the audio/video input jack

The audio/video input jack of the Glasstron is a special mini-jack, and the signal connections are aligned as shown on the right. This alignment may differ depending on the equipment.



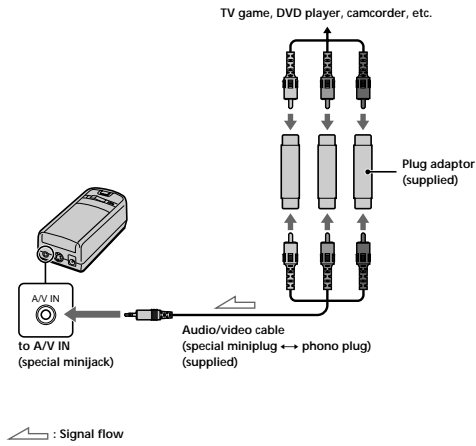
7-GB

8-GB

Confidential

Connecting other equipment

The plug adaptor (phono jack ↔ phono jack) is supplied. Use the plug adaptor according to the equipment you want to connect.



Getting Started

continued

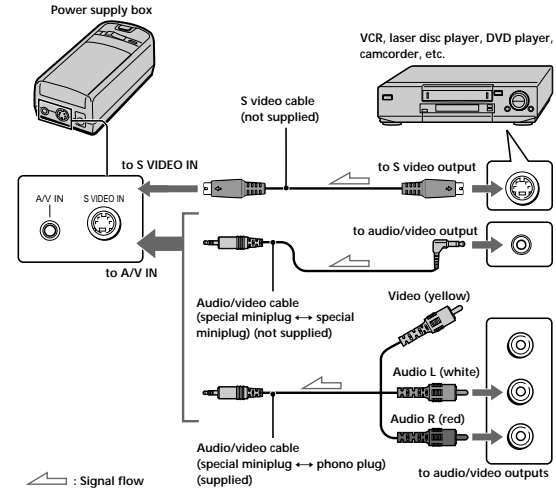
9-GB

10-GB

Connecting the Glasstron (continued)

If your video equipment has an S video jack

We recommend connecting the Glasstron to your video equipment using an S video cable and the audio/video cable to enjoy the highest quality pictures. In this case, you do not need to connect the video (yellow) plug. If you connect both the S video and video plugs, the S video signal is automatically selected.

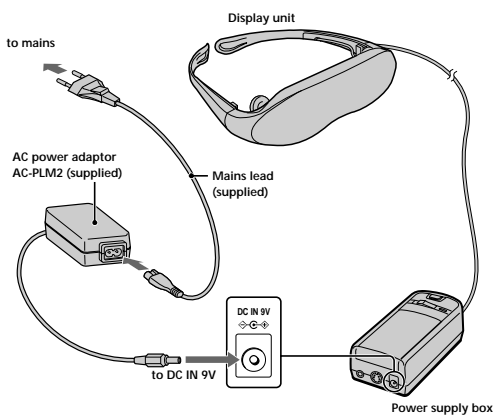


Notes

- Even if you use the supplied audio/video cable, the audio and video signals may not be carried to the Glasstron depending on the video source. In this case, contact your Sony dealer or local authorized Sony service facility.
- When you connect the Glasstron to the audio output jacks (phono jacks) of your video equipment, connect the Glasstron to both the right and left audio output jacks. If you connect the Glasstron to just one audio output jack, you will hear sound from only one of the stereo earphones.

Connecting the power source

Connect the AC power adaptor AC-PLM2 (supplied) to mains. Do not connect the power source until all other connections are complete.



Getting Started

11-GB

12-GB

Wearing the Glasstron

WARNING

- Failure to properly fit the product (see "Proper Fit," page 5 on the Safety Instructions) each time may result in eye fatigue, eye damage, or loss of visual functions and may result in accident or injury.
- This product should not be used by children age 15 or younger. The eyes of children are still developing and may be adversely affected by use of this product, and it may cause eye fatigue, eye damage, or loss of visual functions. In addition, this product may not be adjusted to fit a child's head.

If you normally wear glasses while watching TV, you can use the Glasstron while wearing glasses. When you take the Glasstron off, be careful that your regular glasses do not get caught on the Glasstron.

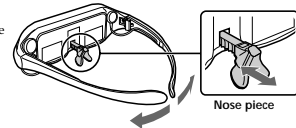
1 Adjust the nose piece and put on the Glasstron.

Pull out the nose piece if you wear glasses.

Open the side pieces by grasping the side piece tips and put on the Glasstron.

Caution:

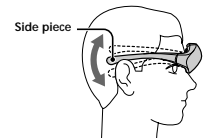
Be careful not to poke your eyes with the side piece tips when putting the Glasstron on or off.



2 Adjust the angle of the display unit.

Adjust the angle of the side pieces by grasping the side piece tips to adjust the display unit to the most suitable viewing position.

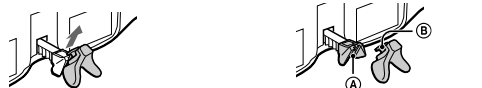
You do not necessarily have to rest the side pieces on your ears.



To use the supplied nose piece

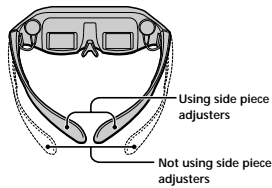
If you are still unable to have a full view of the screen or clear picture colour on the Glasstron after performing step 2 above, replace the nose piece with the supplied nose piece (black).

- 1 Remove the nose piece in an upward direction while grasping the nose piece support.
- 2 Insert (B) of the supplied nose piece (black) into the round notch (A).



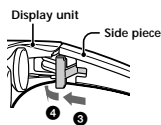
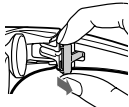
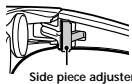
3 Adjust the width of the side pieces.

There are two settings for the side piece width adjustment. If the fit seems loose, insert the side piece adjusters to the hinges of the left and right side pieces.



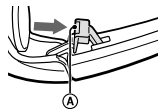
To use the side piece adjusters

- 1 This is the original position. Normally keep adjusters here.
- 2 Turn the side pieces inside slightly then gently squeeze the top and bottom of the side piece adjuster and pull out to release.
- 3 Slide the side piece adjuster toward the display unit.
- 4 Reinsert the side piece adjuster tines into the hinge area between the side piece and display unit. Repeat the procedure for the other side piece.



To reset the side piece adjusters, turn the side pieces inside slightly and reverse the above procedure.

To put the side piece adjuster back, press (A) to the illustrated direction until it "clicks" into place.



Getting Started

continued

13 GB

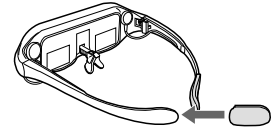
Wearing the Glasstron (continued)

For increased comfort while wearing Glasstron

If the Glasstron fit is loose or uncomfortable, place the supplied side piece pads onto the tip of each side piece.

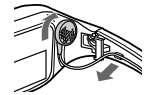
Note

Use the side piece pads pocket-side inward.



4 Wear the stereo earphones.

Detach the stereo earphones from the display unit and put them in your ears.



Notes

- If the stereo earphones are loose, we recommend using the spare ear-pads (not supplied).
- If your head is small, you may not be able to use the Glasstron.
- Depending on your eyesight, you may not be able to focus on the picture properly. In such a case, it is not a malfunction.

14 GB

Using the Glasstron

If you set the user lock, unlock it (page 19).

Before you start...

Be sure to follow the procedures in "Connecting the Glasstron" (pages 8 - 11) and "Wearing the Glasstron" (pages 12 - 14).

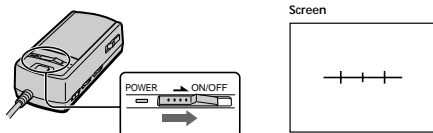
WARNING

Each time you use this product, adjustment screens will appear, requiring the viewer to properly fit the product. To prevent eye damage, do not use this product if the vertical lines do not cross the horizontal line on the next screen.

The Glasstron includes two small (left and right) LCDs. You are watching a combined picture created from these two screens. Although the screen position is properly aligned at the factory, it may become misaligned if the Glasstron is deformed or damaged. Check the screen position alignment every time you turn on the Glasstron. If you cannot have correct screen alignment, stop using the Glasstron immediately.

1 Turn on the Glasstron using the POWER ON/OFF switch.

The POWER lamp lights up.



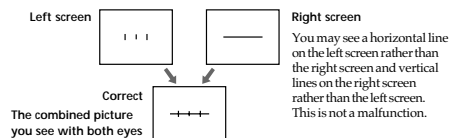
Operations

continued

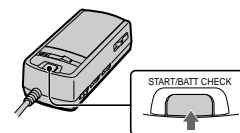
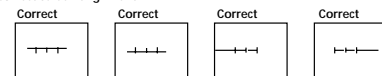
15 GB

Using the Glasstron (continued)

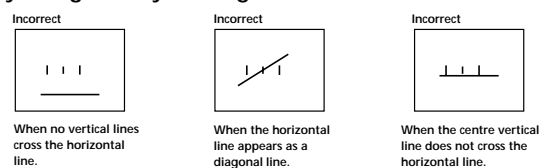
2 If the screens are aligned, press the START/BATT CHECK button.



If the image you see matches one of the pictures below, you have correct screen alignment.



If the image you see matches one of the pictures below, stop using the Glasstron immediately. Use of the Glasstron under such conditions may cause eye fatigue or eye damage.



If you cannot see a proper arrangement of these lines even after resting your eyes for a few hours, the Glasstron may not be operating correctly. Contact your Sony dealer or local authorized Sony service facility.

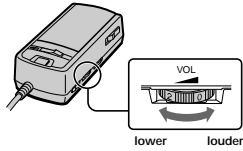
16 GB

Confidential

PLM-A35E (AEP)

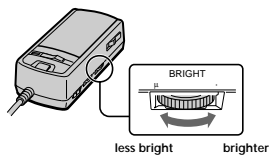
3 Start playback on the video equipment connected to the Glasstron.

4 Adjust the volume by turning the VOL control.
When you set the AVLS ON/OFF switch to ON, you cannot turn up the volume beyond the defined limit (see page 18).



5 Check that the four corners of the screen are clear.
If the four corners of the screen are not clear, do the step 2 (page 16) to check the screen position alignment again.

6 Adjust the brightness by turning the BRIGHT control.



Operations

continued

17^{GB}

Using the Glasstron (continued)

After you finish using the Glasstron

Take off the Glasstron, and turn off the power.

Note on the LCDs

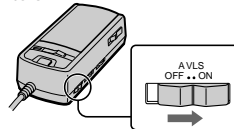
The LCD screen is made with high-precision technology. However, black points or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is not a malfunction. (Effective dots: more than 99.99%)

Preventing sound from escaping through the stereo headphones

— AVLS (Auto Volume Limiter System):

Keeps down the maximum volume to protect your ear. You cannot turn up the volume beyond the defined limit even if you try to turn it up.

Set the AVLS ON/OFF switch to ON.



To turn the AVLS off

Set the AVLS ON/OFF switch to OFF.

Screen warnings against overuse of the Glasstron

To prevent eye fatigue or eye damage, after you use the Glasstron for three hours the following caution appears on the screen and the power turns off automatically.

TIME OUT
ZEIT ZU ENDE
TEMPS DEPASS

Caution: Motion sickness from viewing programmes.

Some viewers may experience motion sickness, headache or nausea from viewing movies or video programmes, especially those with intense action and movement. If you feel any of these symptoms, stop using the product immediately. To avoid personal injury or injury to others, do not drive a car or motorcycle, nor do anything that requires concentration until the symptoms disappear.

Caution: Motion sickness from external motion.

Do not use the product while subject to external motion — for example, as a passenger in a car. Use of this product under these conditions may cause motion sickness.

18^{GB}

Setting the user lock

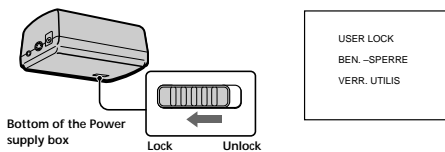
WARNING

This product should not be used by children age 15 or younger. The eyes of children are still developing and may be adversely affected by use of this product. To prevent such use, this product is equipped with the user lock system.

When the user lock is on, audio and video signals are not input and all operations except power on/off are disabled.

To use the Glasstron, unlock the user lock.

Set the user lock switch as shown in the illustration.



To unlock the user lock

Set the user lock switch to the opposite position.

Operations

19^{GB}

Using an optional battery pack

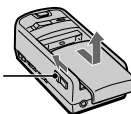
If you use a battery pack such as the NP-F550 / F750 / F950, you can use the Glasstron without connecting to mains.

Charge the battery pack before use by using the optional battery charger, BC-V615. You cannot charge the battery pack while it is on the unit.

1 Slide the BATT/COVER RELEASE button to remove the cover.

When not using the unit, keep the cover on the power supply box.

BATT/COVER RELEASE button



2 Attach the battery pack to the power supply box.

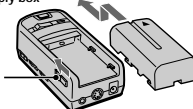
Install the battery pack properly making sure it is not crooked against the power supply box.

To remove the battery pack, slide and hold the BATT/COVER RELEASE button and pull the battery pack off.

Power supply box

Battery pack

BATT/COVER RELEASE button



| Battery pack | Battery life |
|--------------|-----------------|
| NP-F550 | Approx. 7 hours |

Notes

- While using the battery pack, if you connect or disconnect the AC power adaptor, the power turns off. To turn the power on, press the POWER ON/OFF switch again.
- If the POWER lamp flashes while using the battery pack, replace the battery pack with a fresh one.
- Battery life may be shorter in a cold environment. This is a typical battery characteristic.

"InfolITHIUM" is a trademark of Sony Corporation.

- * The above indications are for fully charged batteries.
- * Actual battery life depends on conditions of use.
- * You can also use a battery pack such as the NP-F530 / F730 / F750 / F930 / F950 (not supplied) with the Glasstron.
- * You can use an "InfolITHIUM" battery pack with the Glasstron. When using such a battery pack, the estimated remaining battery life is displayed with the indicator instead of the time counter.

20^{GB}

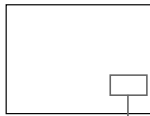
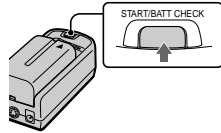
Confidential

PLM-A35E (AEP)

Checking the remaining battery life

When no indication or caution appears on the screen, press the **START/BATT CHECK** button.

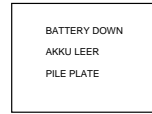
The remaining battery life appears and the picture disappears.



Remaining battery life



When the battery pack is weak, the following message appears on the screen. Replace the battery pack with a charged one.



When using the AC power adaptor, the " " mark appears on the screen.

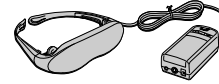
Operations

21^{GB}

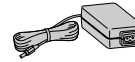
Checking the supplied accessories

Check that the following accessories are supplied with your Glasstron. If any item is not supplied, contact your Sony dealer or local authorized Sony service facility.

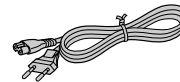
- Display unit/Power supply box (1)



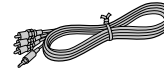
- AC power adaptor AC-PLM2 (1)



- Mains lead (1)



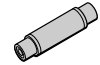
- Audio/video cable (special miniplug ↔ phono plug) (1)



- Audio/video cable (special miniplug ↔ stereo miniplug) (1)



- Plug adaptors (phono jack ↔ phono jack) (3)



- Nose piece (black) (1)



- Side piece pads (2)



- Operating instructions manual (1)

- Safety Instructions (1)

- Warranty (1)

6^{GB}

Precautions

Use

- Operate the product only with the supplied AC power adaptor (AC-PLM2). If you use a different AC power adaptor, it may cause a malfunction.



Unified polarity plug

- Should any liquid or solid object fall into the cabinet, unplug the product and have it checked by qualified personnel before operating it further.
- Always turn the product off when you do not use it. Unplug the product from the mains if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Do not overload mains, extension cords, or convenience receptacles beyond their capacity, since this can result in fire or electric shock.
- Do not use attachments not recommended by the manufacturer, as they may cause hazards.
- Avoid using earphones at high volume. Hearing experts advise against continuous, loud, and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.
- Do not touch the AC power adaptor or power supply box with wet hands. If you fail to observe this, it may cause electric shock.
- Do not drop or give a mechanical shock to the product.

Installation

- To prevent internal heat buildup, do not block the ventilation openings.
- Avoid operating the product at temperatures below 5°C (41°F).
- Do not subject the product to high temperature or direct sunlight. If you do not observe the above instructions, the product may become deformed and the screens may become impossible to align. If you keep watching misaligned screens, you may develop eye fatigue. Follow the instructions in "Using the Glasstron" (pages 15 - 18), to be sure the screens are aligned. If you find the screens misaligned, have the product repaired at your Sony dealer or local authorized Sony service facility.
- Do not place the product in locations where it is wet, humid, dusty, smoky, or steamy. Do not use this product near or around water. It may cause fire or electric shock. Especially, do not use the product in the bathroom.
- If the product is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor colour. This is because moisture has condensed on the lenses inside. If this happens, let the moisture evaporate before using the product.
- Do not place the product on an unstable cart, stand, table, or shelf. The product may fall, causing serious injury to a child or an adult, and serious damage to the product.
- Do not allow anything to rest on or roll over the power cord, and do not place the product where the power cord is subject to wear or abuse.

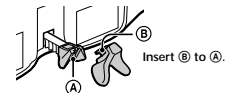
Others

- Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.

- If the product has been exposed to rain or water.
- If the product has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the product does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- When the product exhibits a distinct change in performance — this indicates a need for service.
- Do not disassemble or modify the product. It may cause fire or electric shock. Have the product checked and repaired at your Sony dealer or local authorized Sony service facility.
- Do not attempt to service the product yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to the product, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the product is in safe operating condition, and to so certify.
- Unplug the product from the mains before cleaning. Clean the product gently with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene.

If the nose piece is disconnected

Reinsert the nose piece to its position.



Insert ⑥ to ④.

If the side pieces are disconnected

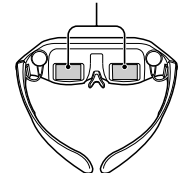
You can reattach the side piece. Insert the side piece to the inner side of the display unit. Gently push until it clicks into position. However, reattaching the side pieces may cause a malfunction. Be careful not to reattach them too often.



Window coating

To avoid reflection, the windows are coated. Do not place the product in locations subject to sudden temperature changes, or where it is excessively hot (above 60°C/96°F). For example, inside a car parked in direct sunlight. The coating may develop cracks.

Windows



Additional Information

22^{GB}

23^{GB}

Confidential

PLM-A35E (AEP)

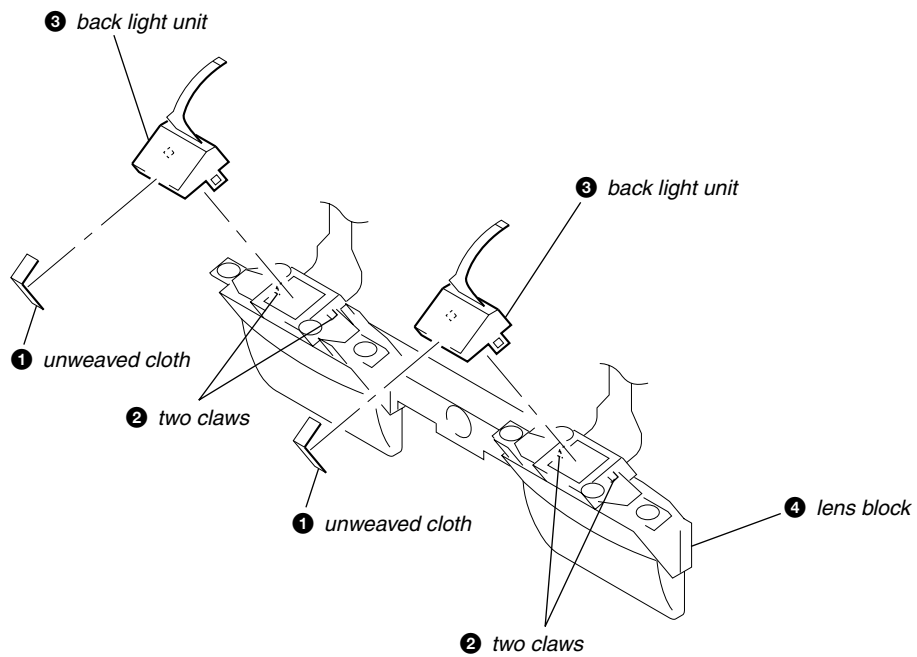
MEMO

Confidential

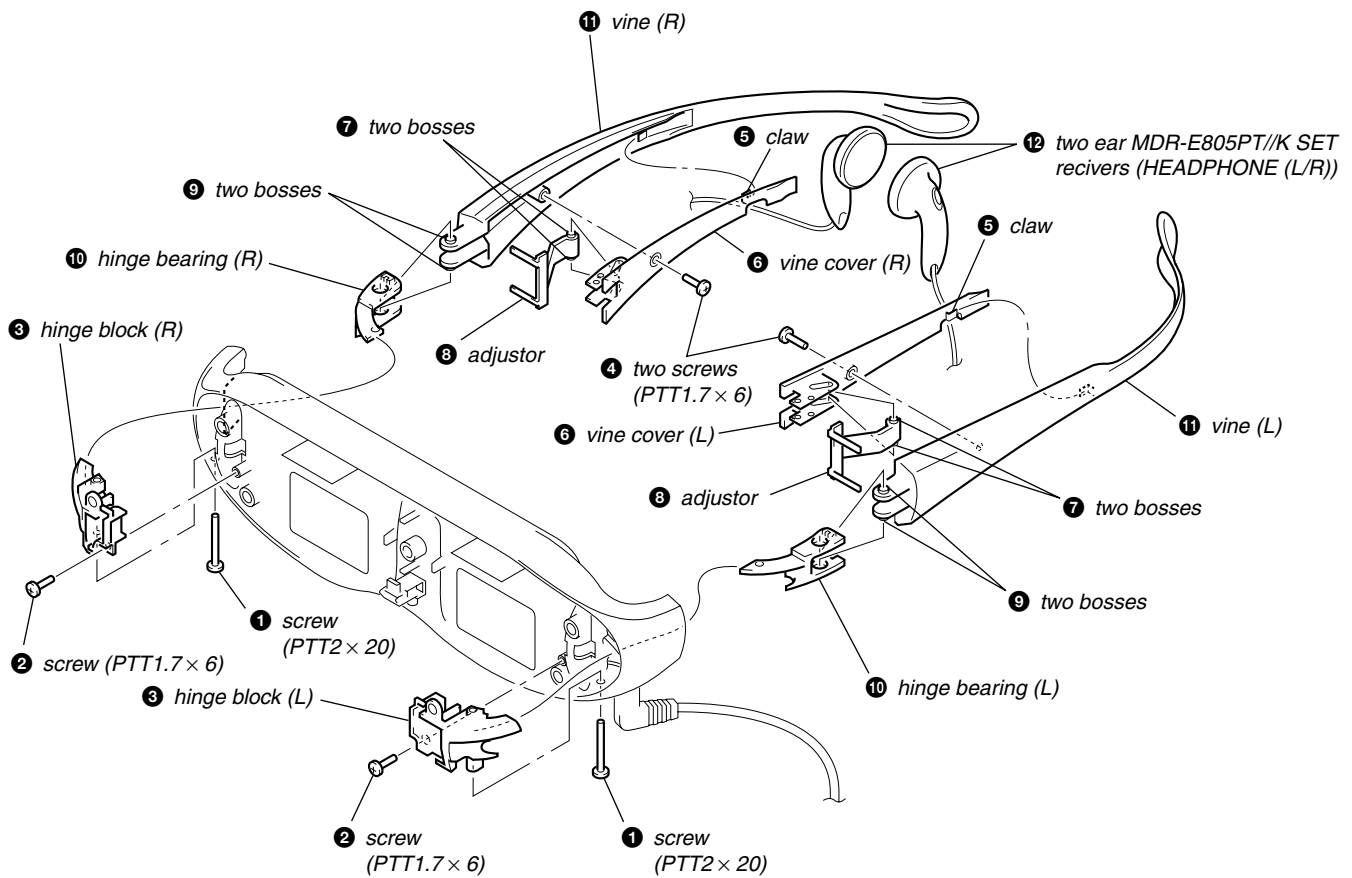
PLM-A35E (AEP)

1-6
(END)

BACK LIGHT UNIT



EAR MDR-E805PT//K SET RECIVER (HP701, 702)



Confidential

PLM-A35E (AEP)

2-2
(END)

SECTION 3 ELECTRICAL ADJUSTMENTS

Precautions on adjustment:

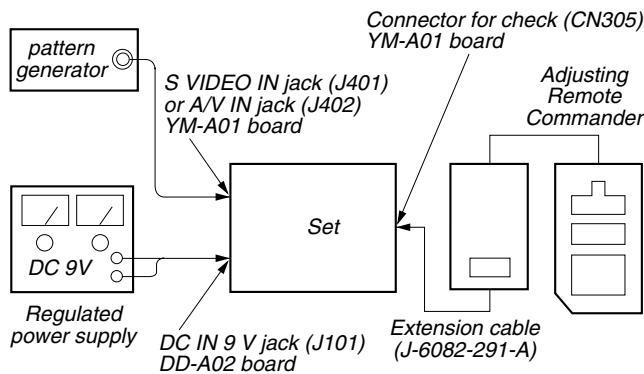
1. Perform the adjustment in the given order.
2. Power supply voltage: DC 9 V
3. Equipment required
Electrical adjustment requires the following measuring equipment.
 - (1) Oscilloscope: 2 phenomena, band 30 MHz or more, with delay mode (use 10 : 1 probe unless otherwise specified)
 - (2) Pattern generator
 - (3) Regulated power supply
 - (4) Digital voltmeter
 - (5) Frequency counter
 - (6) Connector for adjustment
4. Measurement points for adjustment are located at CN803 on the RG-A01 board. The pin No. and signal name of CN803 is listed below.

• RG-A01 Board, CN803

| Pin No. | Signal Name | Pin No. | Signal Name |
|---------|-------------|---------|-------------|
| 1 | GND | 6 | HD |
| 2 | G OUT | 7 | NC |
| 3 | B OUT | 8 | NC |
| 4 | R OUT | 9 | NC |
| 5 | GND | 10 | NC |

Preparation:

Connect electrical blocks as shown below.



Note: In the adjustment where the S VIDEO input is designated, if adjustment was made with the VIDEO input. The specification of this set will not be satisfied. Always follow the designation. If adjustment was made using the VTR with S VIDEO OUT terminal as a signal source, the performance of this set depends on that VTR. Therefore, use the pattern generator with the Y/C separate output terminals, if possible.

5. Setting up Input Signals

(1) S VIDEO Signal

Connect an oscilloscope to the Y signal pin of the S VIDEO IN connector, and check that the sync signal of Y signal is approximately 0.3 V, video amplitude is approximately 0.7 V, and the setup level is 0 V. (If using the VTR with S VIDEO OUT terminal, check further that the chroma signal and burst signal do not remain.)

Also, connect an oscilloscope to the chroma signal pin of the S VIDEO IN connector, and check that the burst signal amplitude of chroma signal is approximately 0.3 V and it is flat, and moreover, the amplitude ratio of burst signal to "red" signal is 0.30 : 0.66.

Setup level: Potential difference between black and pedestal

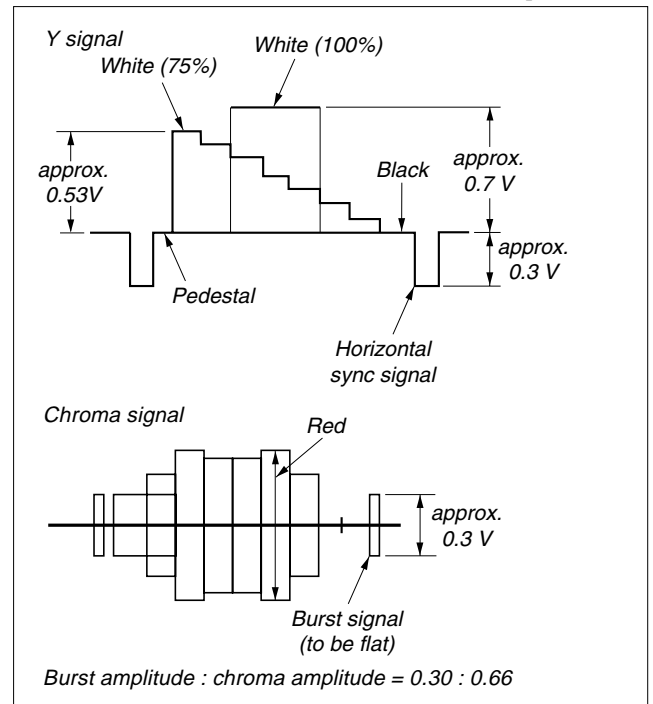


Fig. 3-1. Pattern generator's color bar signals

(2) VIDEO Signal

In adjusting this set, video signals obtained from the pattern generator are used, and therefore these video output signals must satisfy the specification. Connect the oscilloscope to the VIDEO IN terminal, and confirm that the sync signal amplitude of video signals is approximately 0.3 V, the amplitude of video part is approximately 0.7 V, burst signal amplitude is approximately 0.3 V and flat, and the level ratio of burst signal to "red" signal is 0.30 : 0.66.

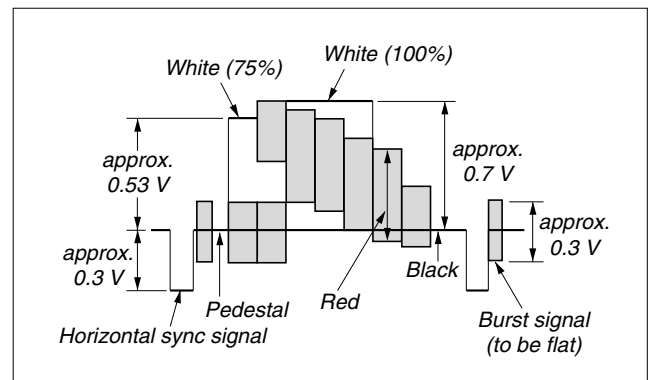


Fig. 3-2. Pattern generator's color bar signals

Confidential

[Preparation for Adjustment]

1. Service Jigs

- (1) Adjusting remote commander (RM-95-modified)

Note: J-6082-053-B

- (2) Extension cable (for remote commander plug converter) J-6082-291-A

Note: The page will not be changed over, unless the microprocessor in the adjusting remote commander is a new one (uPD7503-G-C56-12). In such a case, replace with new microprocessor (8-759-148-35).

2. Adjusting Remote Commander

For the adjustment, the adjustment data saved in the nonvolatile memory (EEPROM) must be rewritten, and for this purpose the adjusting remote commander is used.

The adjusting remote commander makes two-way communication with the set using a remote control signal line (LANC). The adjusting remote commander transmits pages, addresses, and data up/down commands to the set. The set transmits pages, addresses, and data to the adjusting remote commander.

3. How to Use The Adjusting Remote Commander

- (1) Connect the adjusting remote commander to the CN305 on YM-A01 board via extension cable (J-6082-291-A).

(At this time, set the switch of extension cable to OFF)
(OPEN) position

Turn ON the power on the set.

- (2) Set the HOLD switch on the adjusting remote commander to the HOLD (SERVICE) position.

If connection is normal, the LCD display on the adjusting remote commander will be as shown in Fig.3-3.

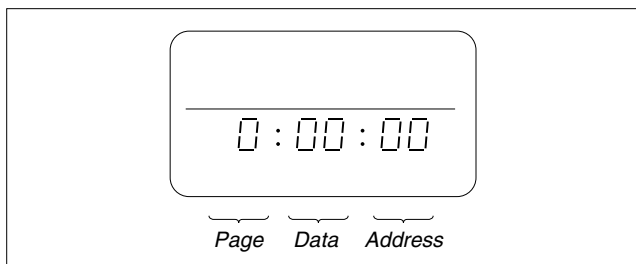


Fig. 3-3

- (3) Operate the adjusting remote commander as follows:

- Page change

Press the EDIT SEARCH + button to increase the page.

Press the EDIT SEARCH - button to decrease the page.

There are 16 pages from 0 to F.

| Hexadecimal numbers | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---------------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| LCD display | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| Decimal conversion | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

- Address change

Press the FF (▶▶) button to increase the address.

Press the REW (◀◀) button to decrease the address.

There are 256 addresses from 00 to FF.

- Data change (data setting)

Press the PLAY (▶) button to increase the data.

Press the STOP (■) button to decrease the data.

There are 256 data from 00 to FF.

- Adjustment data writing

The PAUSE button must be pressed to write adjustment data (D page) to the nonvolatile memory (EEPROM). (Unless the PAUSE is pressed, new data are not saved in the nonvolatile memory.)

- (4) Select page: 1, address: 00, and set 01 data. Thus, the data input to page: D is enabled.

- (5) After the adjustment finished, select page: 1, address: 00, and set 00 data. Thus, the data change on page: D is disabled.

- (6) After all adjustments finished, turn OFF the main power supply (9 V) once.

4. Precaution on Use of The Adjusting Remote Commander

Misoperation of the adjusting remote commander could erase correct data. To prevent this, it is recommended to make a note of data from page: D before adjustment, and also to make a note of new adjustment data each time the adjustment of one item is finished.

Adjusting Remote Commander RM-95 (J-6082-053-B)

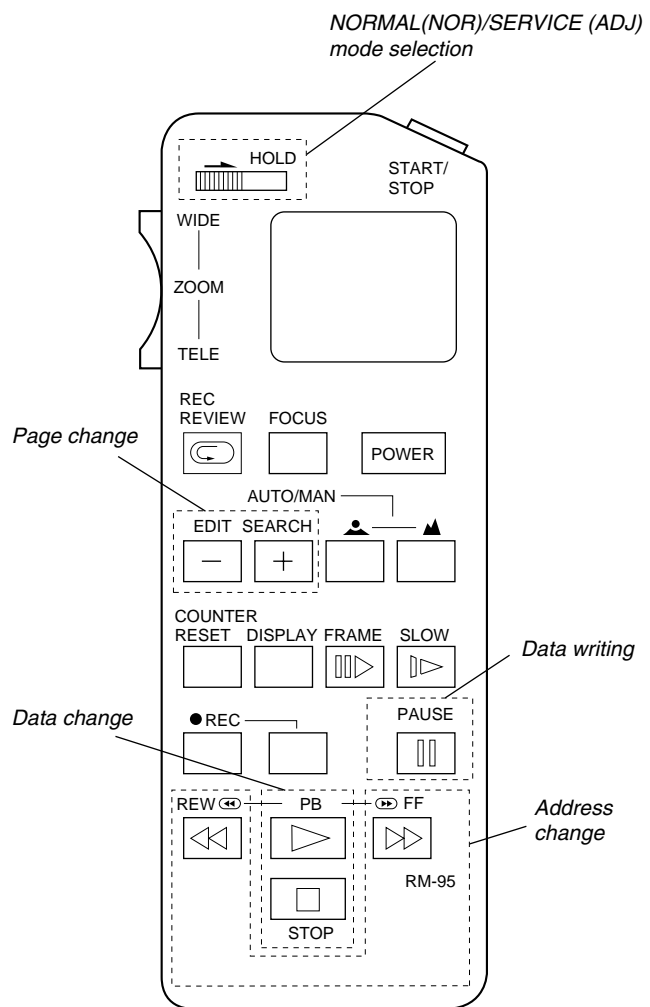


Fig. 3-4

5. Data Processing

Certain adjustment items require the microprocessor data to be read out or the displayed data (hexadecimal numbers) on jigs or adjusting remote commander to be calculated to get adjustment data. In such a case, convert hexadecimal numbers into decimal numbers once, then make calculation, and convert its result into hexadecimal number as adjustment data. Table 3-1 shows hexadecimal – decimal number conversion.

Hexadecimal – Decimal number conversion.

| Higher digit of hex. | Lower digit of hex. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A (A) | B (b) | C (c) | D (d) | E (E) | F (F) |
|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|
| 0 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 2 | | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 3 | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| 4 | | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| 5 | | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
| 6 | | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 |
| 7 | | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 |
| 8 | | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 |
| 9 | | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 |
| A (A) | | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 |
| B (b) | | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 |
| C (c) | | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 |
| D (d) | | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 |
| E (E) | | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 |
| F (F) | | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |

Table 3-1

Note: Data in () are displayed on jig or adjusting remote commander.

Example: If display on jig or adjusting remote commander is BD (bd)

As higher digit of hex. number is B (b) and lower digit is D (d), the intersection “189” of ① and ② in Table 1 is the target decimal number.

6. Power ON Procedure for Adjustment

- (1) Connect an extension cable to the adjusting remote commander.
- (2) After making sure that the HOLD switch on the adjusting remote commander is not turned on (not at left (NOR) position), supply 9 Vdc to the DC IN (J101).
(With the HOLD switch at HOLD position, the initial operation of the set does not finish, disabling the POWER switch function)
- (3) Turn ON the POWER switch on the set. Confirm that a green LED lights up.
- (4) Set the HOLD switch on the adjusting remote commander to the HOLD (right (ADJ)) position.

7. Adjustment Finishing Procedure

| Order | Page | Address | Data | Description | Remarks |
|-------|---|---------|------|---|-----------------------|
| 1. | D | 01 – 31 | | Check if adjusted data are written correctly to the given page and address. | |
| 2. | 2 | 00 | 00 | Set data 00 to given page and address. | Page 2: Reset |
| 3. | 1 | 00 | 00 | | Page D: Write protect |
| 4. | Set HOLD switch on adj. remote commander to NOR position. | | | | |

8. Check screen skip mode setting

| Order | Page | Address | Data | Description | Remarks |
|-------|------|---------|------|--|---------------------------|
| 1. | 2 | 00 | 01 | Set data 01 to given page and address. | Select RAM address page 1 |
| 2. | 2 | 2C | 00 | Set data 00 to given page and address. | No output check screen |

Resetting: Turn the POWER switch off.

9. Picture control standard setting (LCD and OPTICS blocks adjustments)

| Order | Page | Address | Data | Description | Remarks |
|-------|------|---------|------|---|---------------------------|
| 1. | 1 | 00 | 01 | Set data 01 to given page and address. | Page D: Cancel protect |
| 2. | D | 01 | 41 | Set data 41 to given page and address, and press PAUSE. | Ope. – Brightness: Center |

After LCD and OPTICS blocks adjustments

| Order | Page | Address | Data | Description | Remarks |
|-------|------|---------|------|---|---------------------------------|
| 1. | 1 | 00 | 01 | Set data 01 to given page and address. | Page D: Cancel protect |
| 2. | D | 01 | 01 | Set data 01 to given page and address, and press PAUSE. | Ope. – Brightness: Reset center |

[Preset Data Writing]

Connection:

(1) Connect the adjusting remote commander to the CN305 on YM-A01 board.

Data Writing Procedure

(1) Set data: 01 to page: 1, address: 00.

(2) Enter the data given in the table below.

Note: To write the data to the EEPROM, press the PAUSE button on the adjusting remote commander each time the data is set.

(3) After writing all data, set data: 00 to page: 1, address: 00.

D Page Adjustment Address and Initial Value

Data in () in Initial set column are different from the data adjusted at the shipment.

Make setting and adjustment only when IC302 (EEPROM) was replaced.

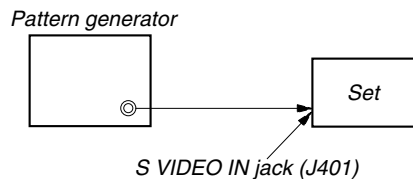
Data in Memo column are fixed value. Always set to this value.

| Address | Data | | Remarks |
|---------|-------------|------|---|
| | Initial set | Memo | |
| 00 | - | - | Not used |
| 01 | 01 | (01) | LCD, OPTICS blocks adj. (Set data: 41 during adj.) |
| 02 | 00 | 00 | Fixed value |
| 03 | 00 | 00 | |
| 04 | (7D) | | Battery down adj. |
| 05 | (78) | | |
| 06 | (75) | | |
| 07 | (67) | | |
| 08 | (60) | | |
| 09 | (08) | | Fixed value |
| 0A | 4A | 4A | |
| 0B | 03 | 03 | |
| 0C | 40 | 40 | |
| 0D | 00 | 00 | |
| 0E | 40 | 40 | |
| 0F | 0B | 0B | |
| 10 | 00 | 00 | Fixed value |
| 11 | 74 | 74 | |
| 12 | (80) | | Color adj. |
| 13 | (A0) | | G brightness adj. |
| 14 | (1A) | | G contrast adj. |
| 15 | (80) | | R brightness, white adj. |
| 16 | (80) | | B brightness, white adj. |
| 17 | A2 | A2 | Fixed value |
| 18 | CE | CE | |
| 19 | 80 | 80 | R contrast adj. |
| 1A | (80) | | |
| 1B | (80) | | B contrast adj. |
| 1C | 6D | 6D | Fixed value |
| 1D | 0A | 0A | |
| 1E | 80 | 80 | |
| 1F | (80) | | TG PLL adj. |
| 20 | 03 | 03 | Fixed value |
| 21 | 00 | 00 | |
| 22 | 00 | 00 | |
| 23 | 00 | 00 | |
| 24 | 00 | 00 | |
| 25 | 00 | 00 | |
| 26 | 0D | 0D | |

| Address | Data | | Remarks |
|---------|-------------|------|-----------------------------|
| | Initial set | Memo | |
| 27 | 0D | 0D | Fixed value |
| 28 | (A0) | | V. COM R adj. |
| 29 | (A0) | | V. COM L adj. |
| 2A | (C0) | | BL balance adj. |
| 2B | (C0) | | |
| 2C | 00 | 00 | Fixed value |
| 2D | 00 | 00 | |
| 2E | 00 | 00 | |
| 2F | 00 | 00 | |
| 30 | (FF) | | Brightness vol. center adj. |
| 31 | 23 | 23 | Fixed value |
| 32-FF | - | - | Not used |

LCD BLOCK

- To adjust the LCD block, connect a pattern generator as shown below. (For details, see page 3-1)



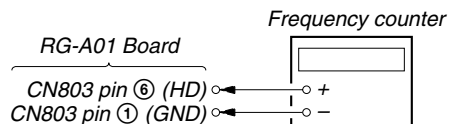
- Set the picture control standard. (See page 3-4)
- Make the following adjustment in the given order.

[TG PLL Adjustment]

Condition:

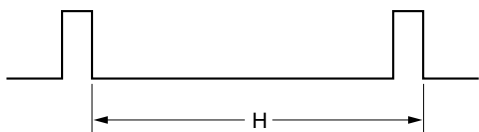
| | |
|---------------------|--------------------------|
| Input signal | No signal |
| Measurement point | RG-A01 board CN803 pin ⑥ |
| Measuring equipment | Frequency Counter |
| Adjustment page | D |
| Adjustment address | 1F |
| Specified value | 15.625 kHz \pm 20 Hz |

Connection:



Adjustment Procedure:

- Connect a frequency counter to the CN803 pin ⑥ (HD) and pin ① (GND) on RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- On page: D, address: 1F, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the frequency counter reading satisfies the specified value.



Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[Brightness Volume Center Adjustment]

Preparation:

BRIGHT control (RV301): Center (click position)

Condition:

| | |
|---------------------|--|
| Input signal | Color bar signal (white 75%) |
| Measurement point | Displayed data on the adjusting remote commander |
| Measuring equipment | |
| Adjustment page | D |
| Adjustment address | 30 |
| Specified value | XXh = 80h \pm 09h |

Adjustment Procedure:

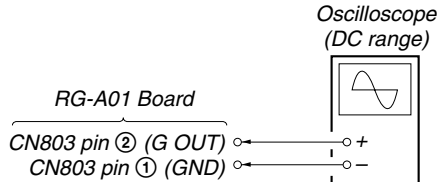
- Set data: 01 to page: 2, address: 00.
- Read data: XXh on page: 2, address: 2A.
- Confirm that the data: XXh satisfies the specified value.
- Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- Enter the data: XXh to page: D, address: 30.
- Press the PAUSE button to write data.

[G Contrast Adjustment]

Condition:

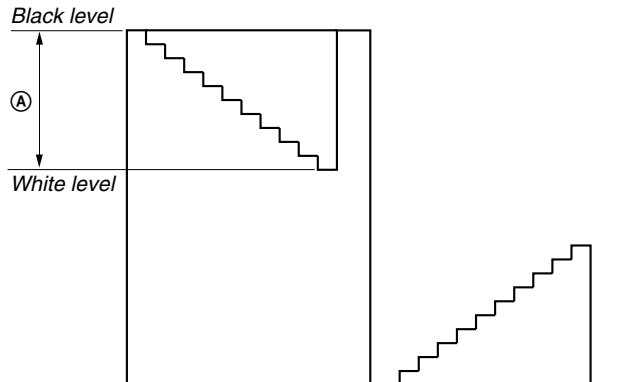
| | |
|---------------------|---|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | RG-A01 board CN803 pin ② |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 14 |
| Specified value | 2.4 ± 0.1 Vp-p |

Connection:



Adjustment Procedure:

- Connect an oscilloscope to the CN803 pin ② (G OUT) and pin ① (GND) on the RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 14, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ① level of waveform on the oscilloscope satisfies the specified value.



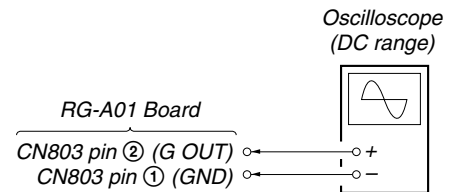
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[G Brightness Adjustment]

Condition:

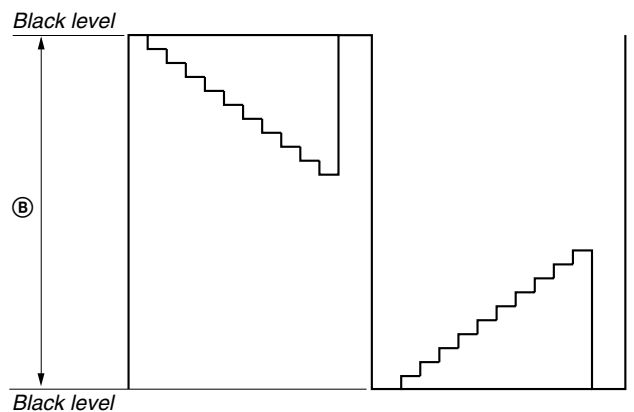
| | |
|---------------------|---|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | RG-A01 board CN803 pin ② |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 13 |
| Specified value | 8.4 ± 0.1 Vp-p |

Connection:



Adjustment Procedure:

- Connect an oscilloscope to the CN803 pin ② (G OUT) and pin ① (GND) on the RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 13, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ② level of waveform on the oscilloscope satisfies the specified value.



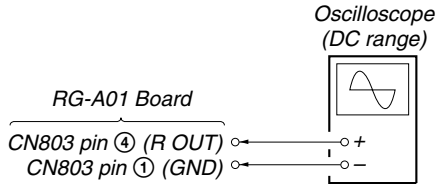
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[R Contrast Adjustment]

Condition:

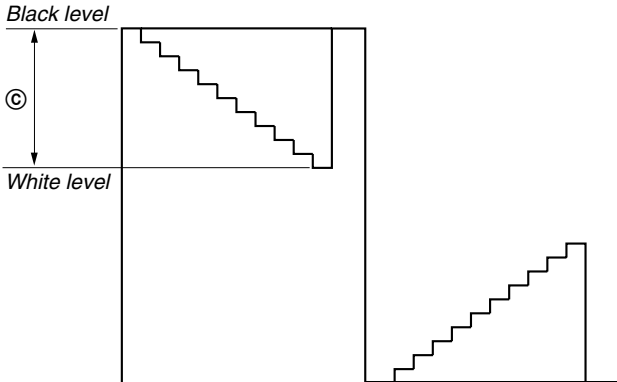
| | |
|---------------------|---|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | RG-A01 board CN803 pin ④ |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 1A |
| Specified value | 2.4 ± 0.1 Vp-p |

Connection:



Adjustment Procedure:

- Connect an oscilloscope to the CN803 pin ④ (R OUT) and pin ① (GND) on the RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 1A, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ㉟ level of waveform on the oscilloscope satisfies the specified value.



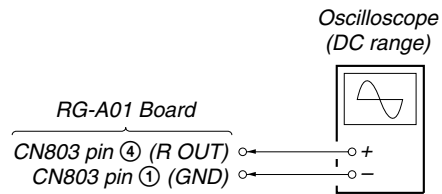
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[R Brightness Adjustment]

Condition:

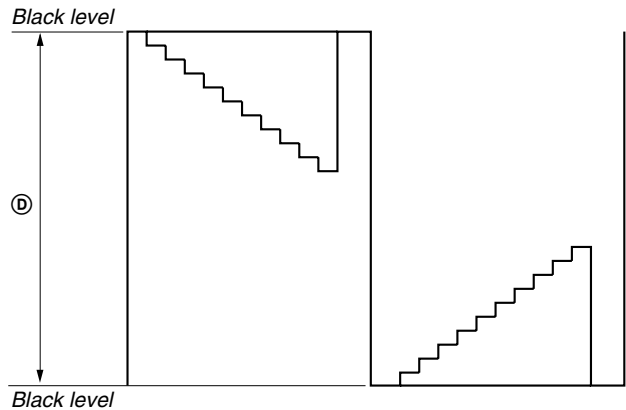
| | |
|---------------------|---|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | RG-A01 board CN803 pin ④ |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 15 |
| Specified value | 8.4 ± 0.1 Vp-p |

Connection:



Adjustment Procedure:

- Connect an oscilloscope to the CN803 pin ④ (R OUT) and pin ① (GND) on the RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 15, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ㊸ level of waveform on the oscilloscope satisfies the specified value.



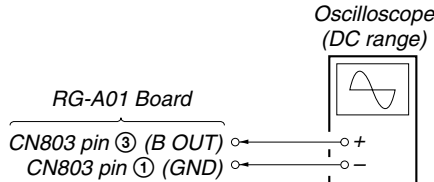
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[B Contrast Adjustment]

Condition:

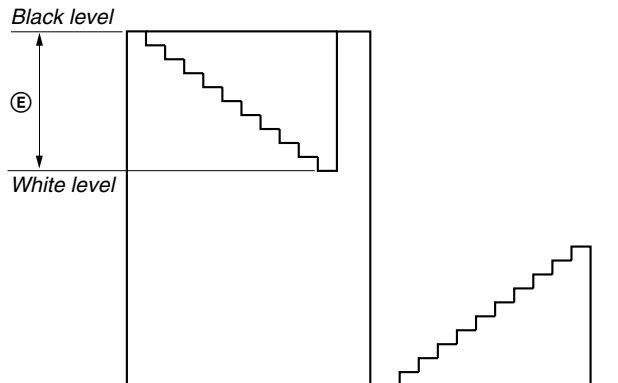
| | |
|---------------------|---|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | RG-A01 board CN803 pin ③ |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 1B |
| Specified value | 2.4 ± 0.1 Vp-p |

Connection:



Adjustment Procedure:

- Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 1B, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ⑤ level of waveform on the oscilloscope satisfies the specified value.



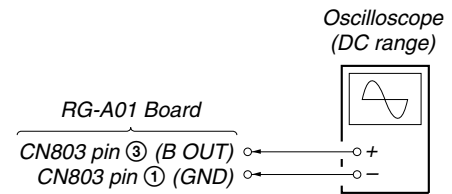
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[B Brightness Adjustment]

Condition:

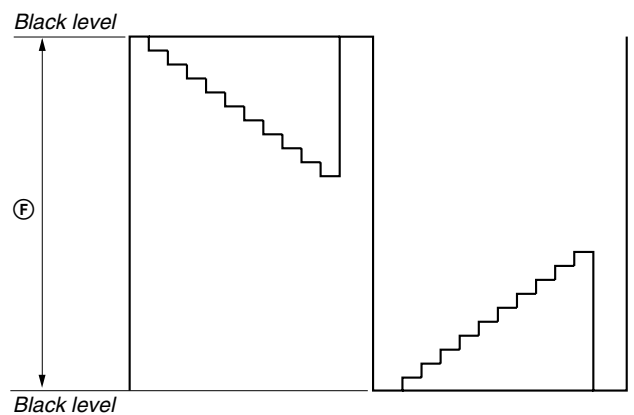
| | |
|---------------------|---|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | RG-A01 board CN803 pin ③ |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 16 |
| Specified value | 8.4 ± 0.1 Vp-p |

Connection:



Adjustment Procedure:

- Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 16, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ⑥ level of waveform on the oscilloscope satisfies the specified value.



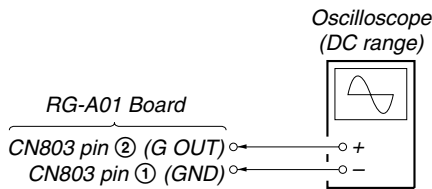
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[Color Adjustment]

Condition:

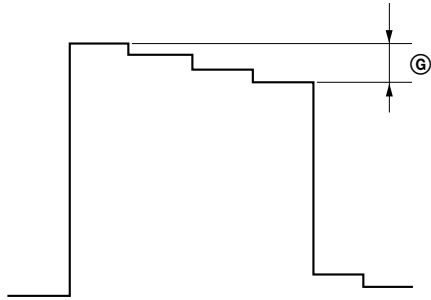
| | |
|---------------------|-------------------------------|
| Input signal | Color bar signal (White: 75%) |
| Measurement point | RG-A01 board CN803 pin ② |
| Measuring equipment | Oscilloscope |
| Adjustment page | D |
| Adjustment address | 12 |
| Specified value | 0 ± 0.05 Vp-p |

Connection:



Adjustment Procedure:

- (1) Connect an oscilloscope to the CN803 pin ② (G OUT) and pin ① (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 12, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ② level of waveform on the oscilloscope satisfies the specified value.



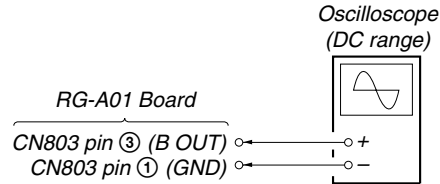
Adjustment and Connection Location: RG-A01 board
(see page 3-14)

[Burst Cleaning Level Adjustment]

Condition:

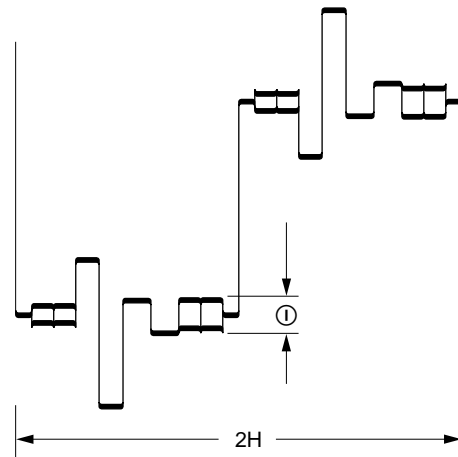
| | |
|---------------------|--|
| Input signal | Anti-pal signal (Anti-pal signal is included in special color-bar signal and so on.) |
| Measurement point | RG-A01 board CN803 pin ③ |
| Measuring equipment | Oscilloscope |
| Adjustment part | RV911 (DL-A01 board) |
| Specified value | Less than 50 mV |

Connection:



Adjustment Procedure:

- (1) Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- (2) Adjust RV911 (DL-A01 board) so that the ① level (B-Y, - (B-Y) part) of waveform on the oscilloscope becomes the minimum and also satisfies the specified value.



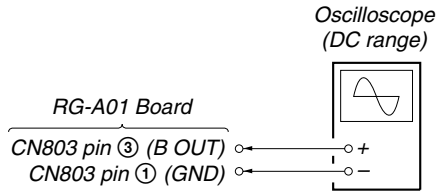
Adjustment and Connection Location: RG-A01 and DL-A01 boards
(see page 3-14)

[Burst Cleaning Phase Adjustment]

Condition:

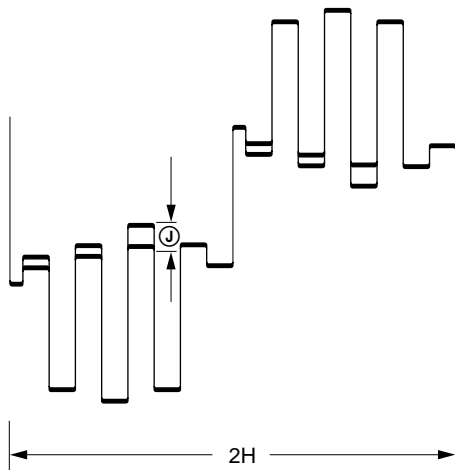
| | |
|---------------------|--------------------------|
| Input signal | Color bar signal |
| Measurement point | RG-A01 board CN803 pin ③ |
| Measuring equipment | Oscilloscope |
| Adjustment part | CT911 (DL-A01 board) |
| Specified value | Less than 50 mV |

Connection:



Adjustment Procedure:

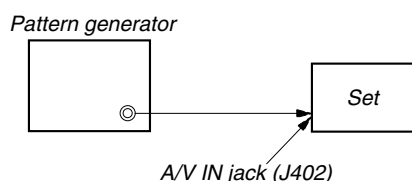
- (1) Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- (2) Adjust CT911 (DL-A01 board) so that the ④ level of waveform on the oscilloscope becomes the minimum and also satisfies the specified value.



Adjustment and Connection Location: RG-A01 and DL-A01 boards (see page 3-14)

OPTICS BLOCK

- To adjust the optics block, connect a pattern generator as shown below. (For details, see page 3-1)



- Set the picture control standard. (See page 3-4)
- Make the following adjustment in the given order.

[V.COM R Adjustment]

- Make this adjustment through a visual check.

Note: Before this adjustment, the Contrast Adjustment must be finished.

Condition:

| | |
|---------------------|------------------|
| Input signal | Monoscope signal |
| Measurement point | Right LCD screen |
| Measuring equipment | Visual check |
| Adjustment page | D |
| Adjustment address | 28 |

Adjustment Procedure:

- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 28, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that horizontal streaks do not wobble on the display when looking into the right finder.

[V.COM L Adjustment]

- Make this adjustment through a visual check.

Note: Before this adjustment, the Contrast Adjustment must be finished.

Condition:

| | |
|---------------------|------------------|
| Input signal | Monoscope signal |
| Measurement point | Left LCD screen |
| Measuring equipment | Visual check |
| Adjustment page | D |
| Adjustment address | 29 |

Adjustment Procedure:

- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- On page: D, address: 29, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that horizontal streaks do not wobble on the display when looking into the left finder.

[LED Back Light Brightness Balance Adjustment]

- Make this adjustment through a visual check.

Condition:

| | |
|---------------------|-------------------------|
| Input signal | White: 100% signal |
| Measurement point | LCD screen |
| Measuring equipment | Visual check |
| Adjustment page | D |
| Adjustment address | 2A (right) or 2B (left) |

Adjustment Procedure:

- Set (or confirm) data: 01 to page: 1, address: 00.
- Page: D, address: 2A (right) or 2B (left)
Change the address data of higher brightness with the PLAY and STOP buttons and press the PAUSE button to write data so that the brightness becomes same as the lower LED back light brightness when looking into the left and right finders.

[White Balance Adjustment]

- Make this adjustment through a visual check.

Condition:

| | |
|---------------------|--------------------------------------|
| Input signal | 10 step signal, 1 Vp-p (White: 100%) |
| Measurement point | LCD screen |
| Measuring equipment | Visual check |
| Adjustment page | D |
| Adjustment address | 15, 16 |

Adjustment Procedure:

- Set (or confirm) data: 01 to page: 1, address: 00.
(Cancel D page protect)
- Page: D, address: 15, 16
Change data at these two addresses with the PLAY and STOP buttons and press the PAUSE button to write data so that the display achromatic gray gradation (not colored in blue or red) when looking into the left and right finders.

POWER SUPPLY BLOCK

[Battery Down Adjustment]

Preparation:

- **VOL** control (RV201) : Maximum
- **AVLS** switch (S201) : OFF
- **BRIGHT** control (RV301): Center (click position)

Condition:

| | |
|---------------------|---|
| Signal | VIDEO IN: Color bar AUDIO IN L: 1 kHz, -20 dBs AUDIO IN R: 1 kHz, -20 dBs |
| Measurement point | Displayed data on adj. remote commander |
| Measuring equipment | |
| Adjustment page | D |
| Adjustment address | 04, 05, 06, 07, 08, 09 |
| Specified value | ZZh = 60h ± 0Ah |

Connection:

Referring to Fig. 3-5, connect the following equipment.

- (1) Connect the regulated power supply and a digital voltmeter to the battery terminal.
- (2) Connect the adjusting remote commander to the CN305 on YM-A01 board.
- (3) Connect a pattern generator to the VIDEO IN terminal.
- (4) Connect an audio SG to the AUDIO IN terminal.

Adjustment Procedure:

- (1) Adjust the output voltage of regulated power supply so that the battery terminal voltage is 6.07 ± 0.02 Vdc.
- (2) Turn ON the POWER switch on the set.
- (3) Set data: 01 to page: 2, address: 00.
- (4) Read data: ZZh on page: 2, address: 2B.
- (5) Confirm that the data: ZZh satisfies the specification value.
- (6) Set data: 01 to page: 1, address: 00.
(Cancel D page protect)
- (7) Using the following formulas (calculation of hexadecimal numbers), calculate the adjustment data and enter them to respective adjustment addresses.

(Refer to 5. Data Processing on page 3-3)

| | |
|-------------|----------------------|
| Address: 08 | $D_{08} = ZZh$ |
| Address: 07 | $D_{07} = ZZh + 07h$ |
| Address: 06 | $D_{06} = ZZh + 15h$ |
| Address: 05 | $D_{05} = ZZh + 18h$ |
| Address: 04 | $D_{04} = ZZh + 1Dh$ |
| Address: 09 | $D_{09} = 08h$ |

Note: After setting each data, be sure to press the PAUSE button on the adjusting remote commander.

- (8) Set data: 00 to page: 2, address: 00.
- (9) Set data: 00 to page: 1, address: 00.
(D page protect)

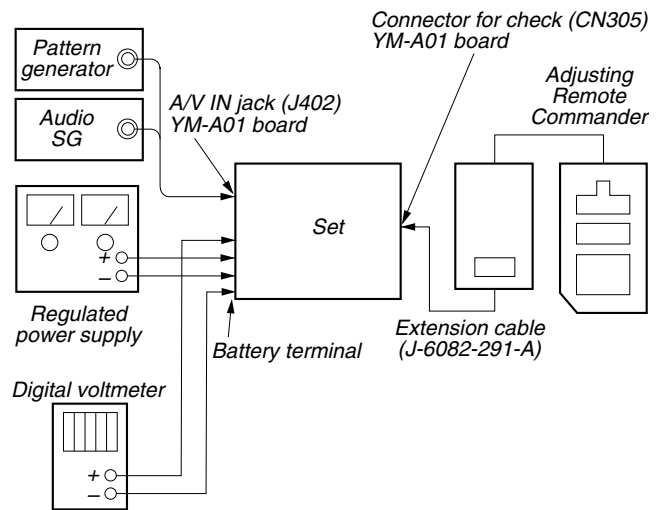
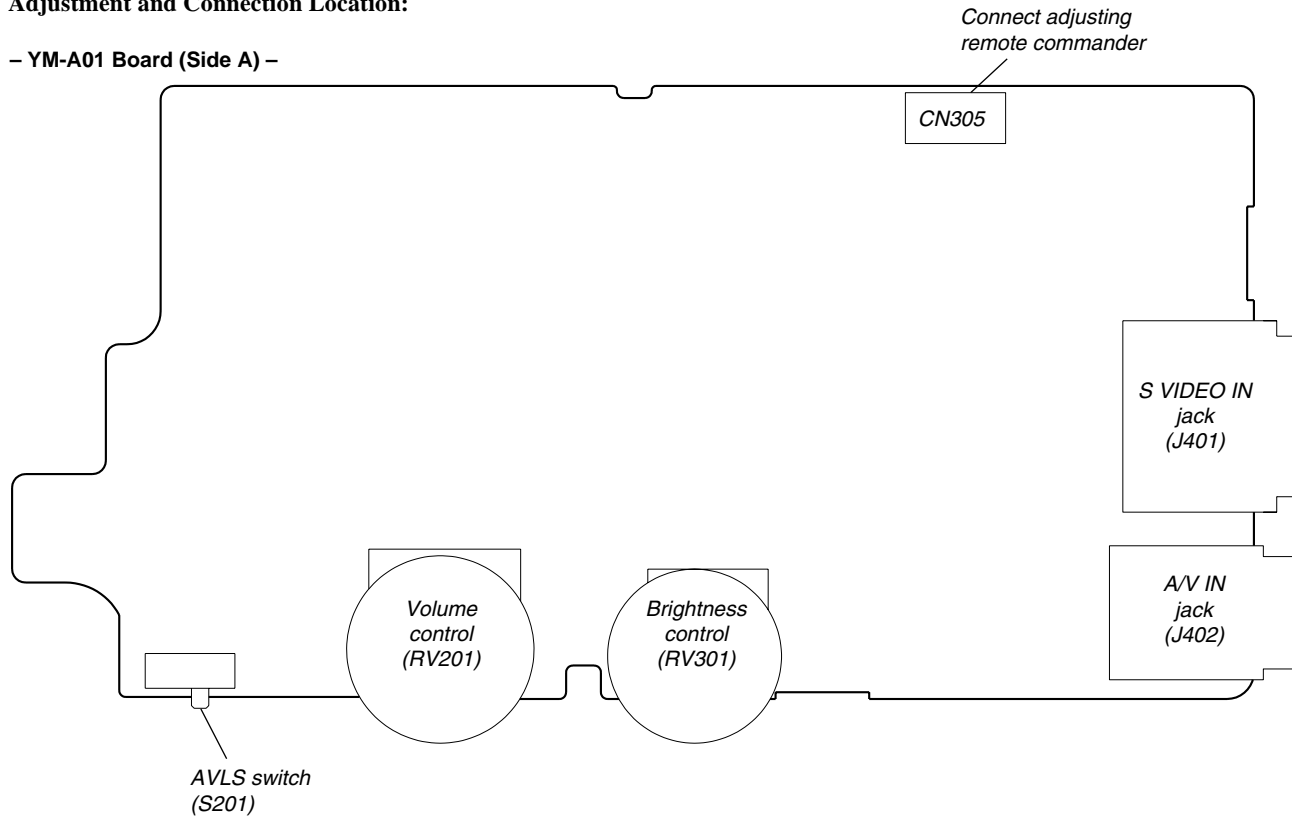


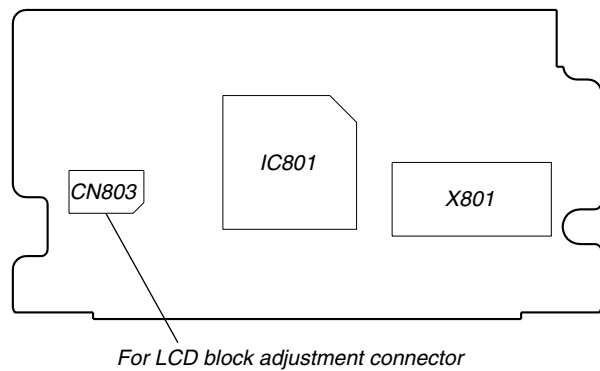
Fig. 3-5

Adjustment and Connection Location:

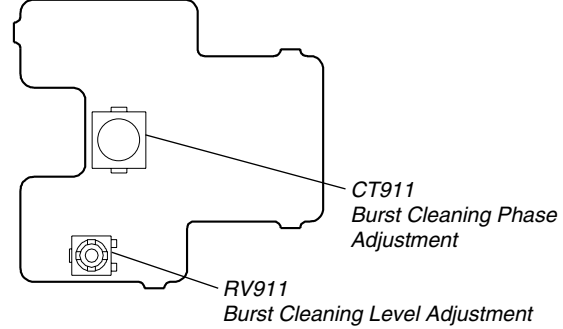
– YM-A01 Board (Side A) –



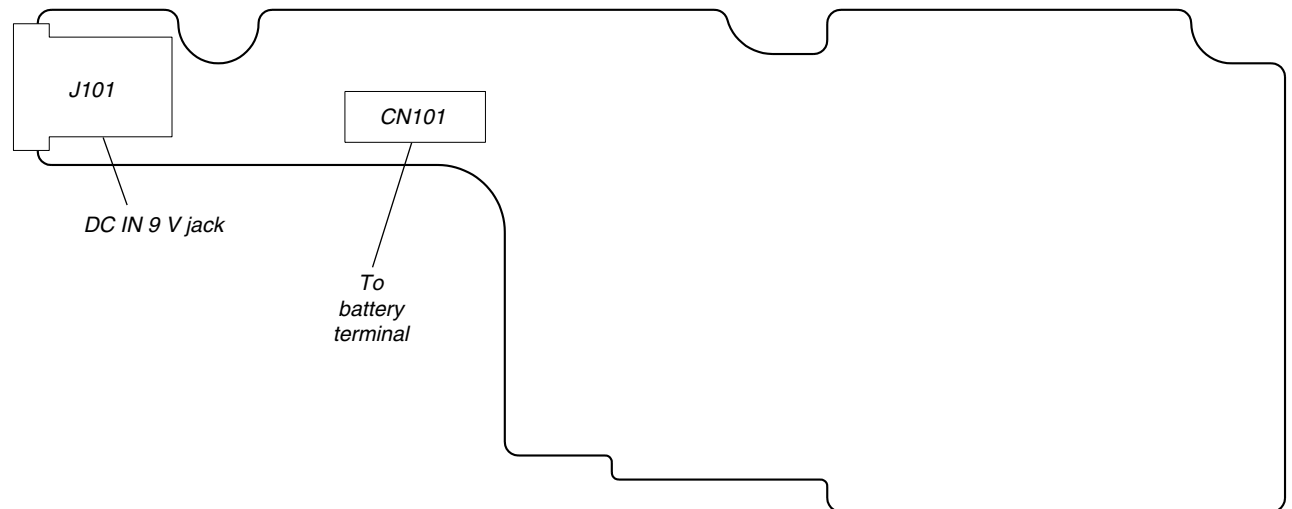
– RG-A01 Board (Side B) –



– DL-A01 Board (Side A) –



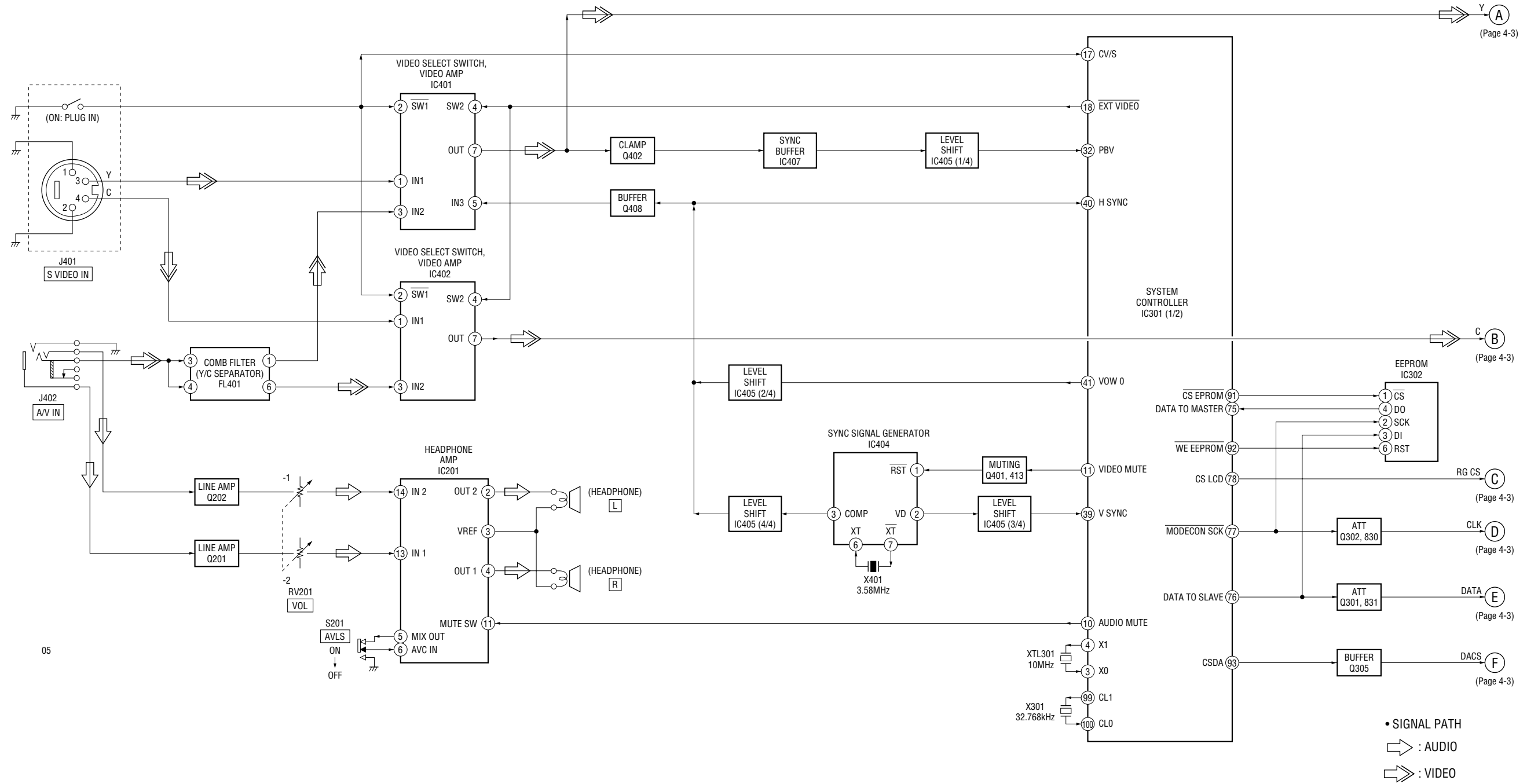
– DD-A02 Board (Side A) –



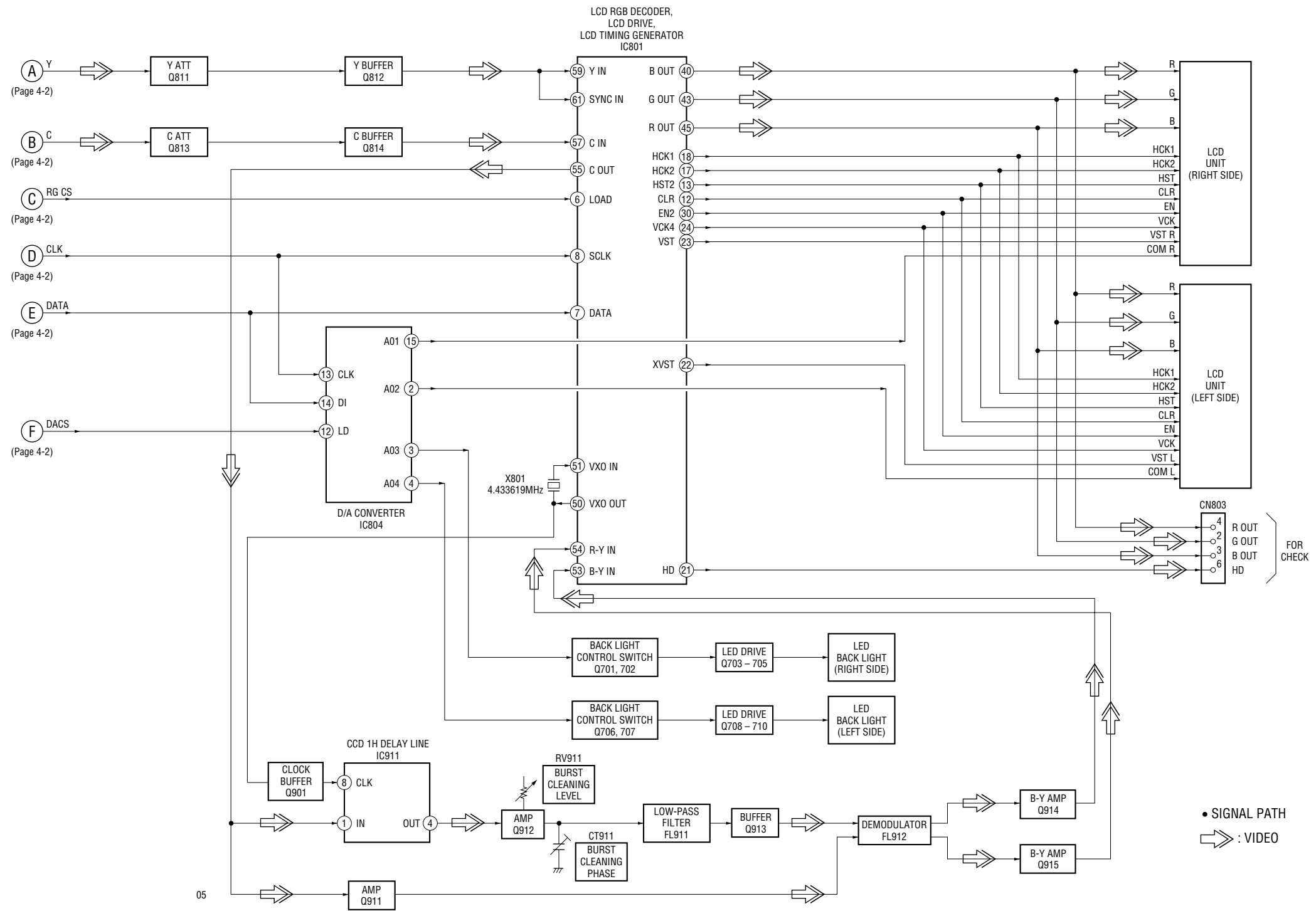
Confidential

SECTION 4 DIAGRAMS

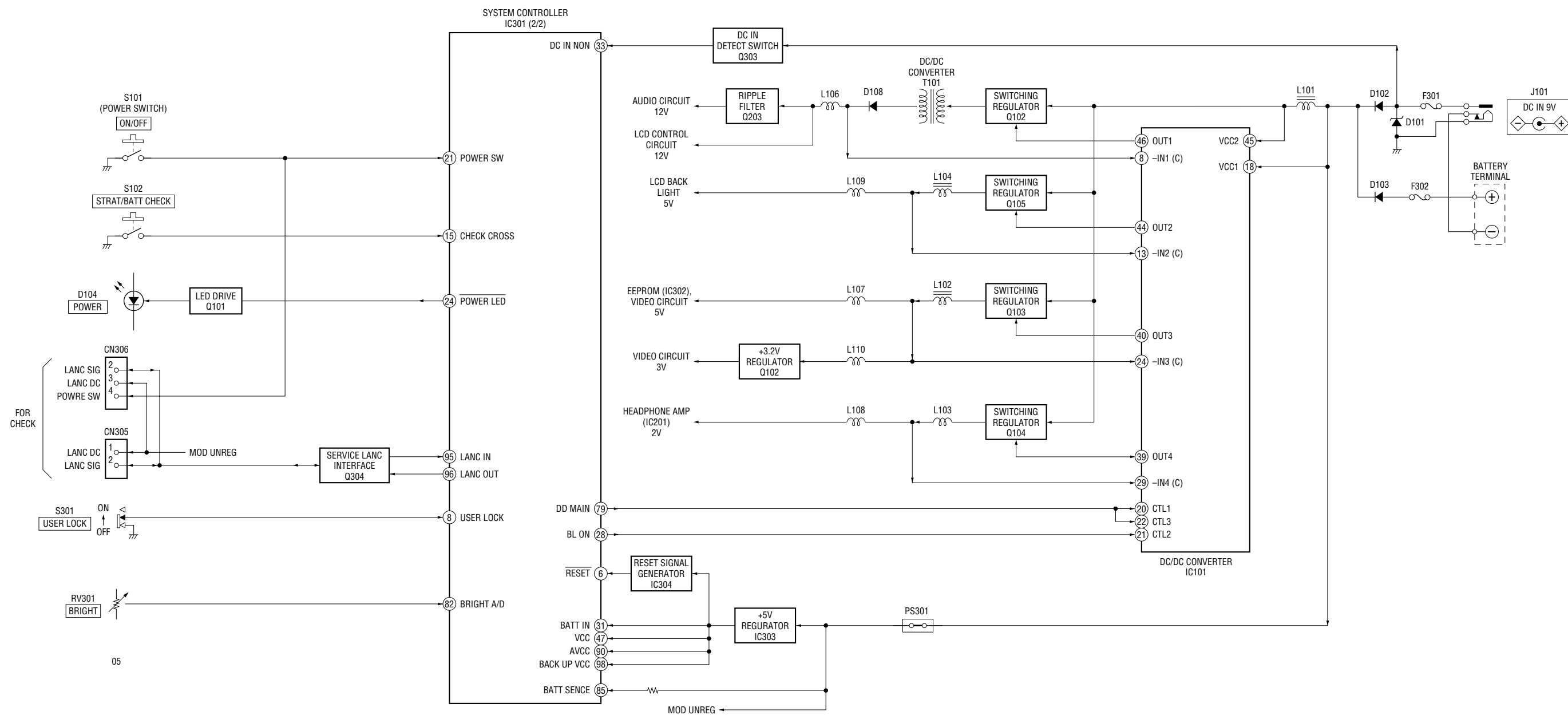
4-1. BLOCK DIAGRAM – AUDIO/VIDEO Section –



4-2. BLOCK DIAGRAM – LCD Section –



4-3. BLOCK DIAGRAM – KEY CONTROL/POWER SUPPLY Section –



05

4-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

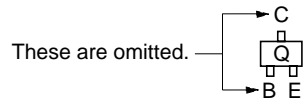
Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
 (Side B)
 Parts face side: Parts on the parts face side seen from the parts face are indicated.
 (Side A)

- YM-A01, RG-A01, DL-A01, HP-A01, and DD-A02 boards are multi-layer printed board. However, the patterns of intermediate-layer have not been included in the diagram.

- Indication of transistor



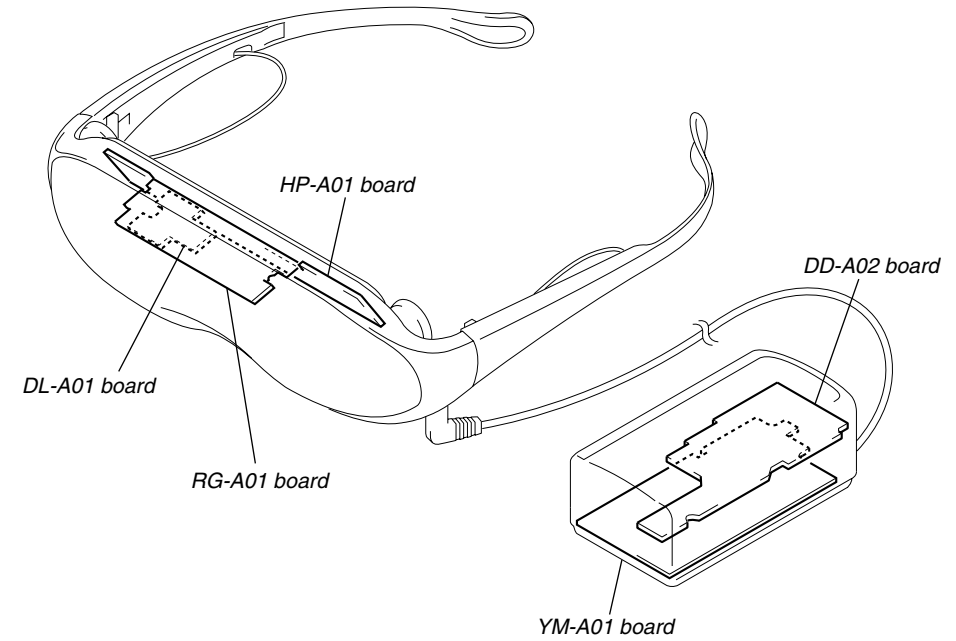
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

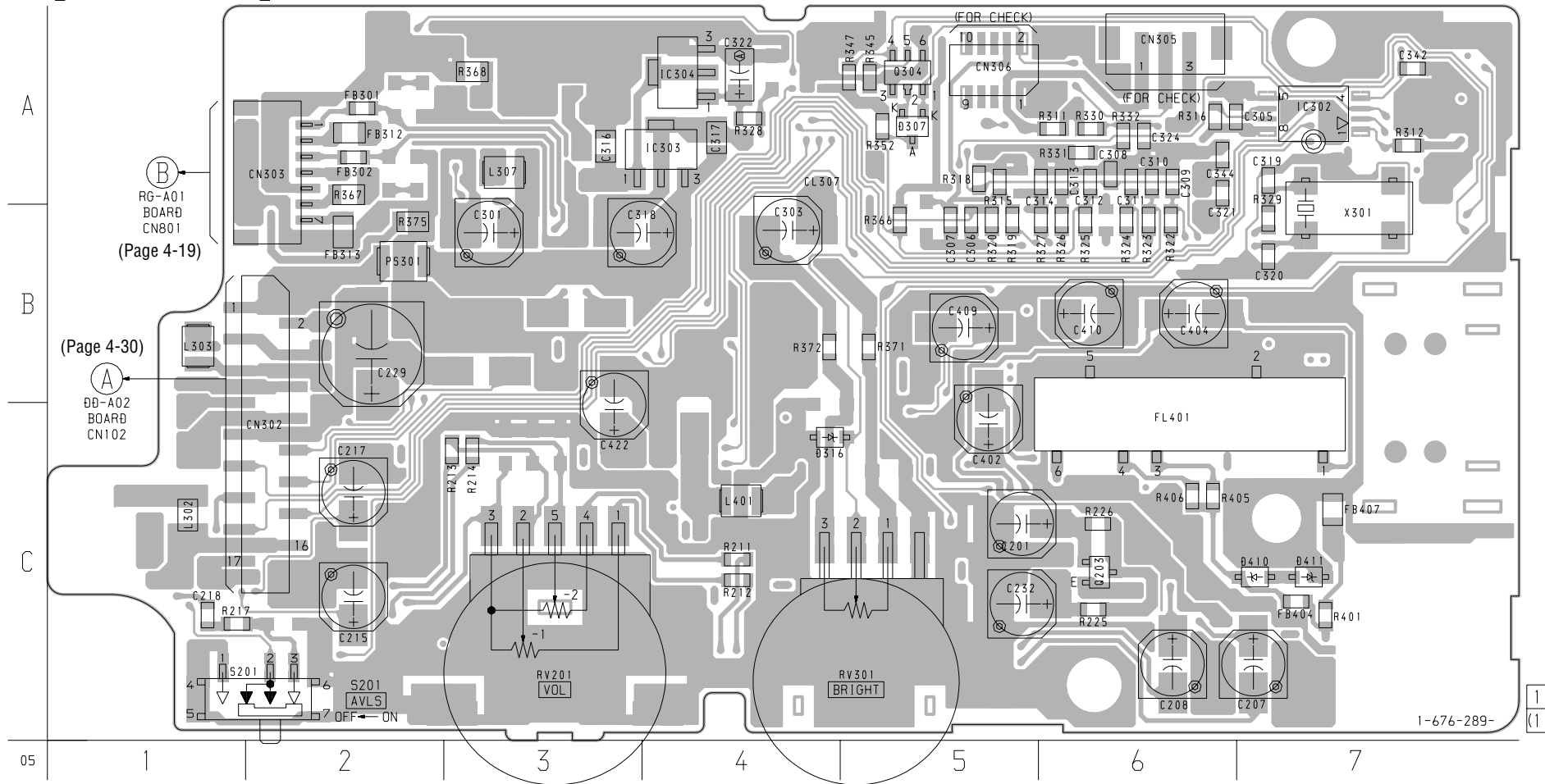
- \square : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground in color-bar signal input.
no mark : VIDEO MODE
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 \Rightarrow : AUDIO
 \Rightarrow : VIDEO

• Circuit Boards Location



4-5. PRINTED WIRING BOARD -YM-A01 Board -

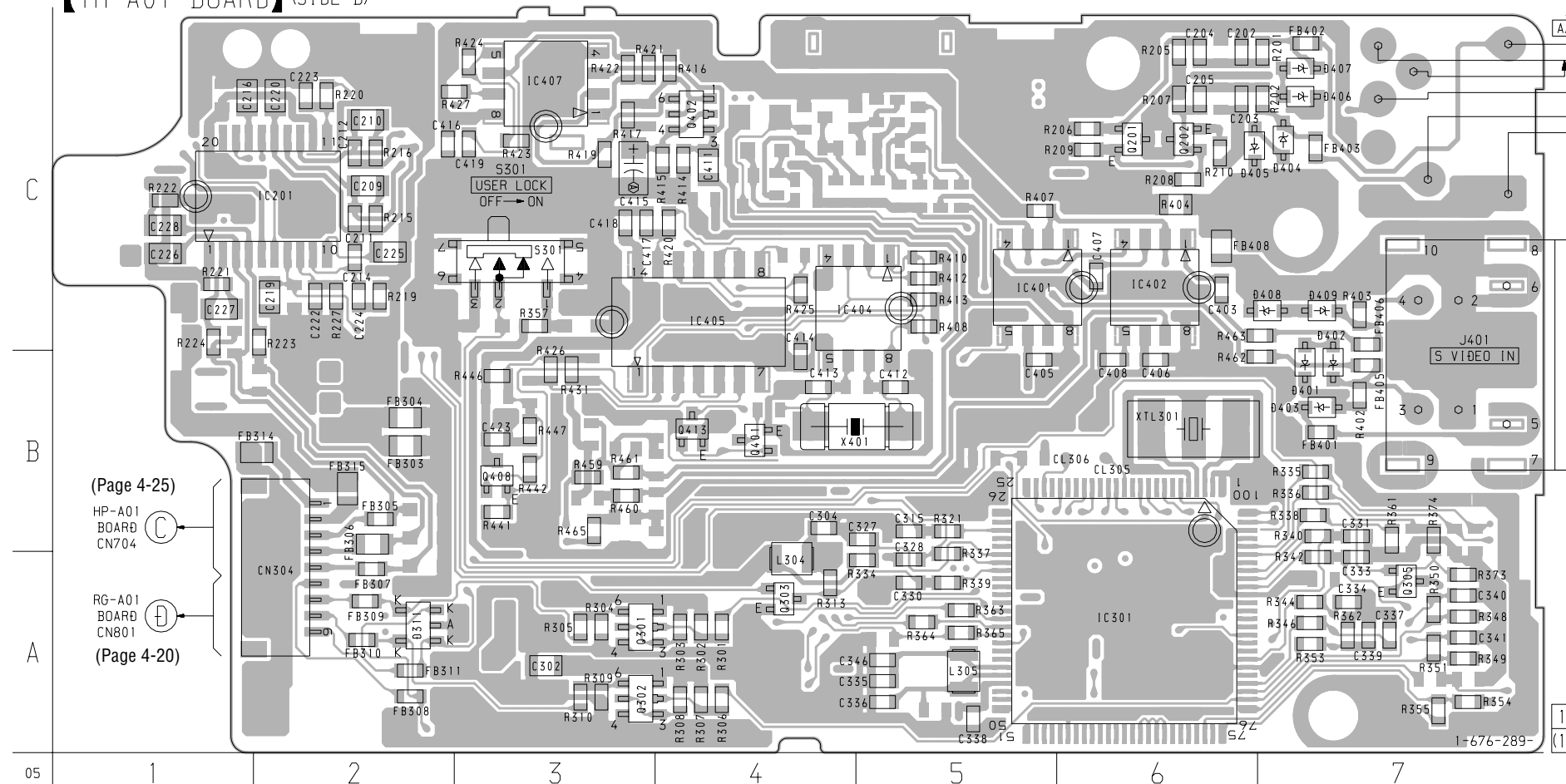
【YM-A01 BOARD】(SIDE A)



• Semiconductor Location (Side A)

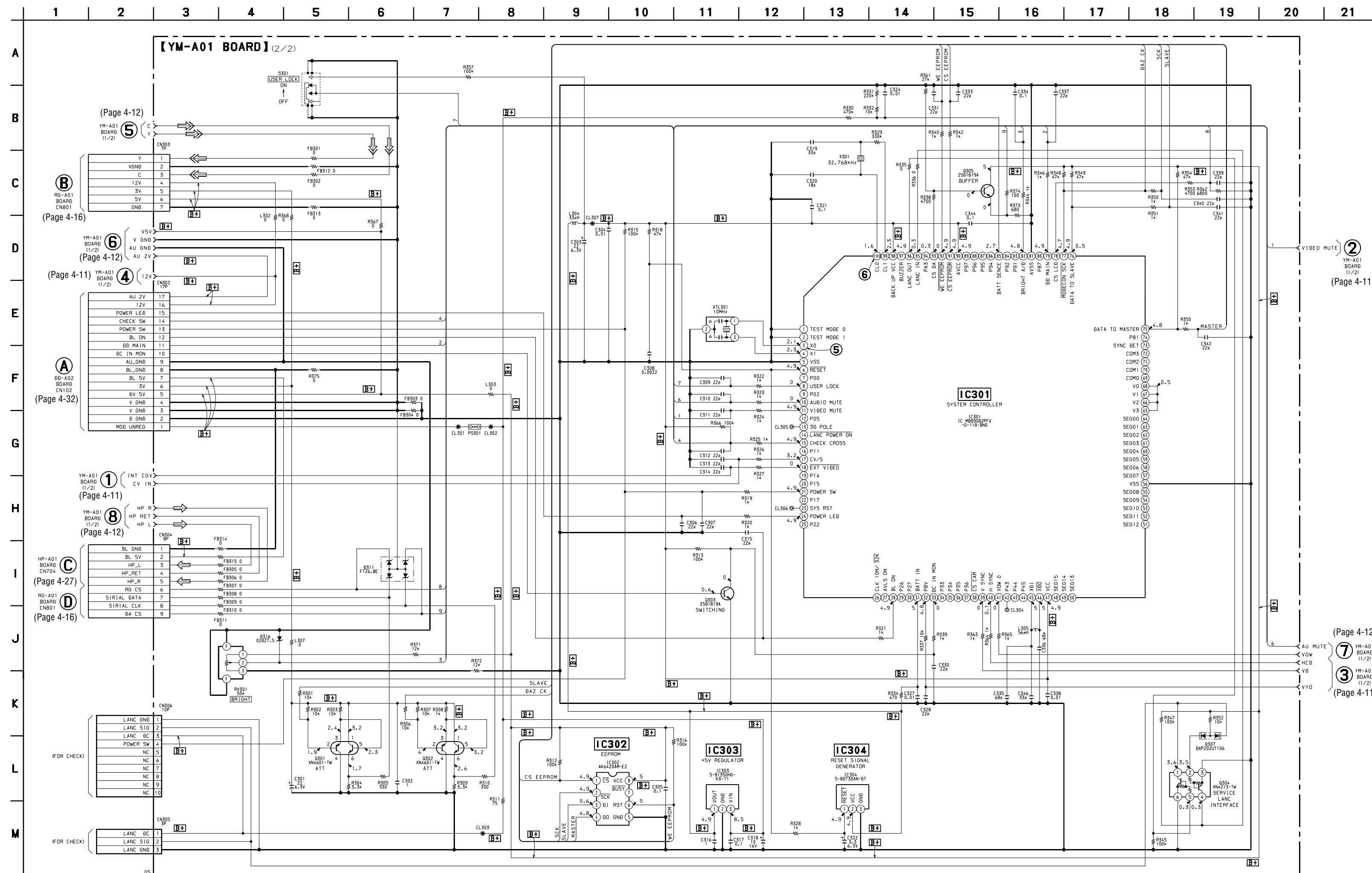
| Ref. No. | Location |
|----------|----------|
| D307 | A-5 |
| D316 | C-4 |
| D410 | C-7 |
| D411 | C-7 |
| IC302 | A-7 |
| IC303 | A-4 |
| IC304 | A-4 |
| Q203 | C-6 |
| Q304 | A-5 |

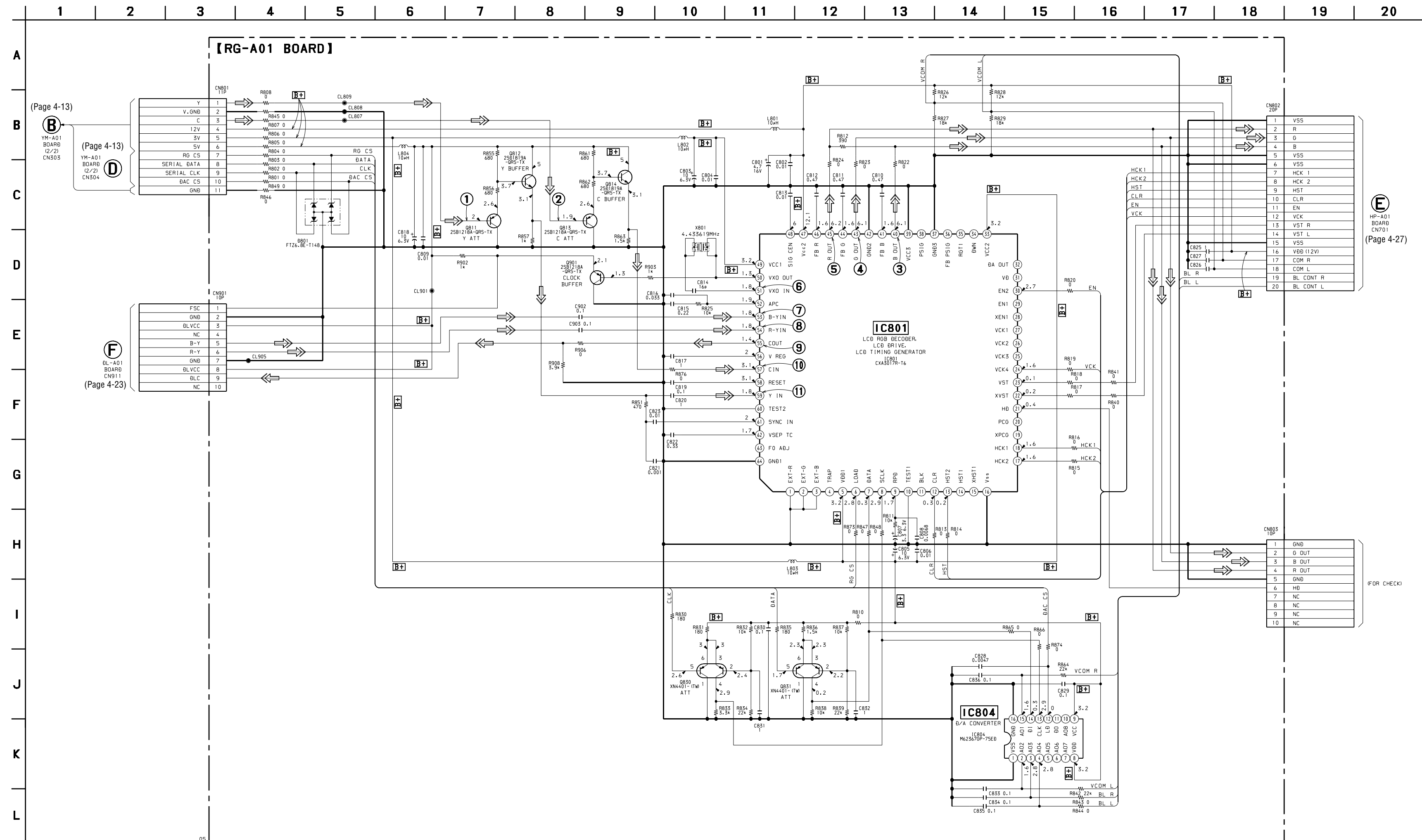
【YM-A01 BOARD】(SIDE B)



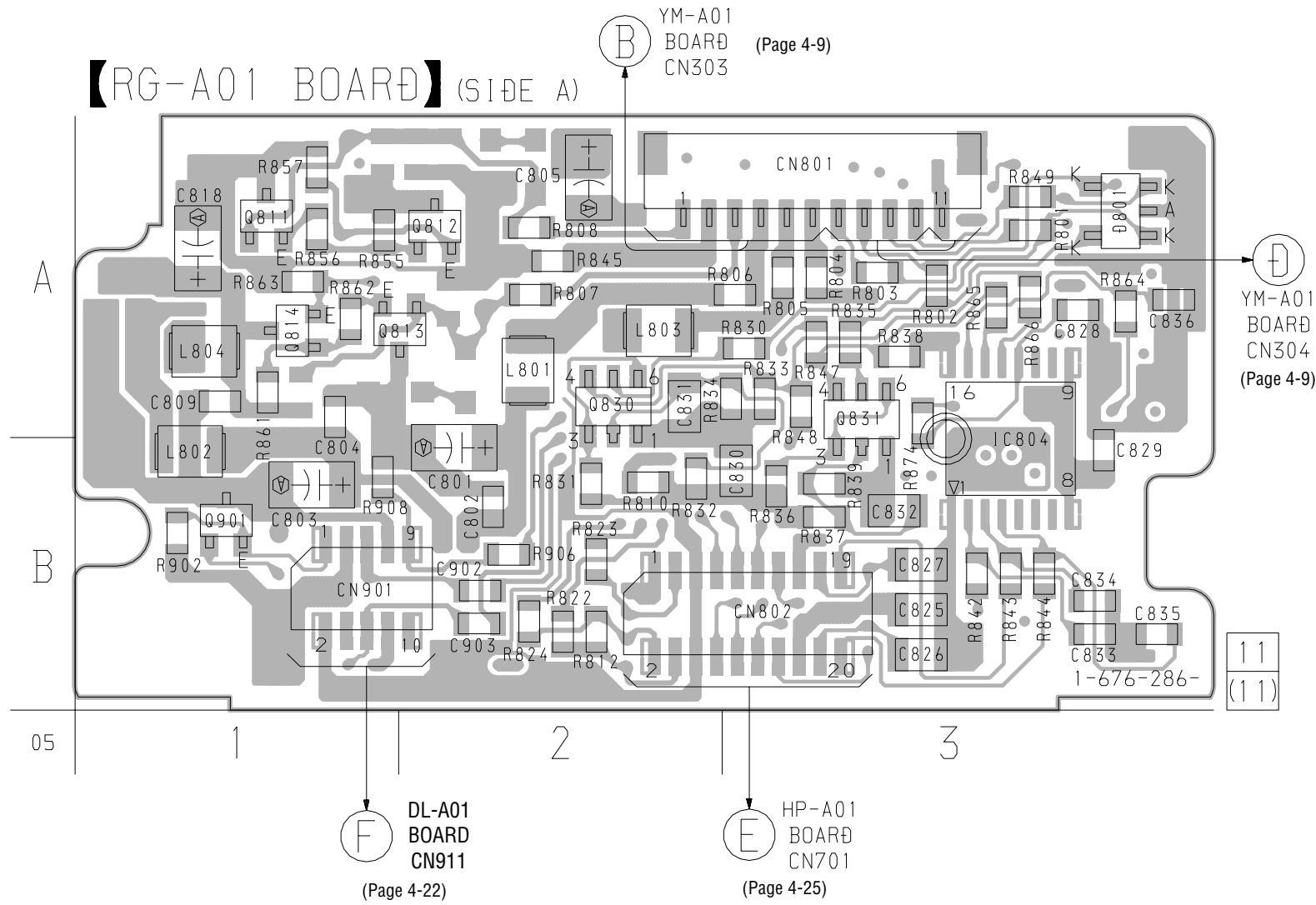
• Semiconductor Location (Side B)

| Ref. No. | Location |
|----------|----------|
| D311 | A-2 |
| D401 | B-7 |
| D402 | C-7 |
| D403 | B-7 |
| D404 | C-7 |
| D405 | C-6 |
| D406 | C-7 |
| D407 | C-7 |
| D408 | C-7 |
| D409 | C-7 |
| IC201 | C-2 |
| IC301 | A-6 |
| IC401 | C-5 |
| IC402 | C-6 |
| IC404 | C-4 |
| IC405 | C-4 |
| IC407 | C-3 |
| Q201 | C-6 |
| Q202 | C-6 |
| Q301 | A-3 |
| Q302 | A-3 |
| Q303 | A-4 |
| Q305 | A-7 |
| Q401 | B-4 |
| Q402 | C-4 |
| Q408 | B-3 |
| Q413 | B-4 |



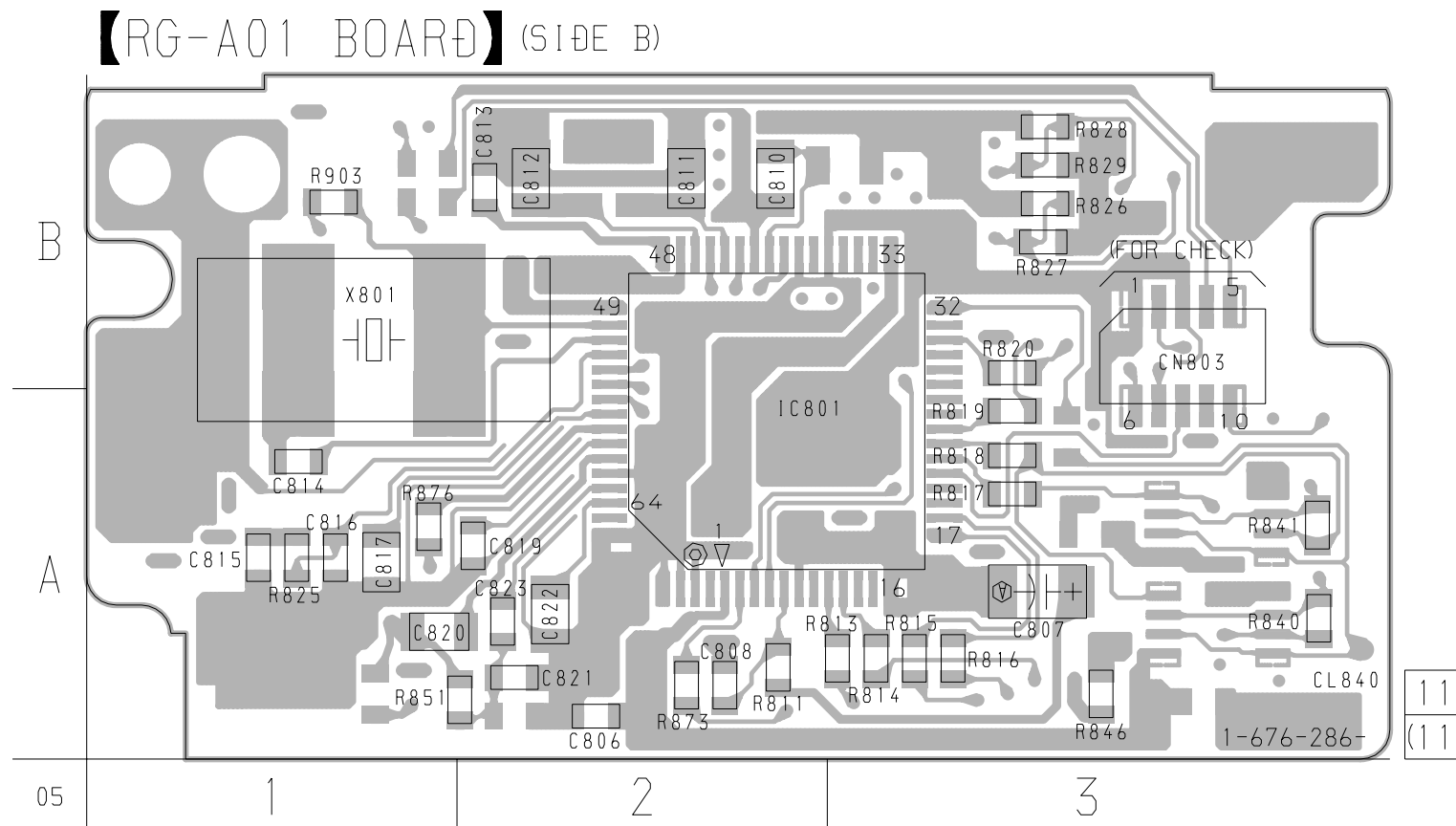


4-9. PRINTED WIRING BOARD – RG-A01 Board – • See page 4-8 for Circuit Boards Location.



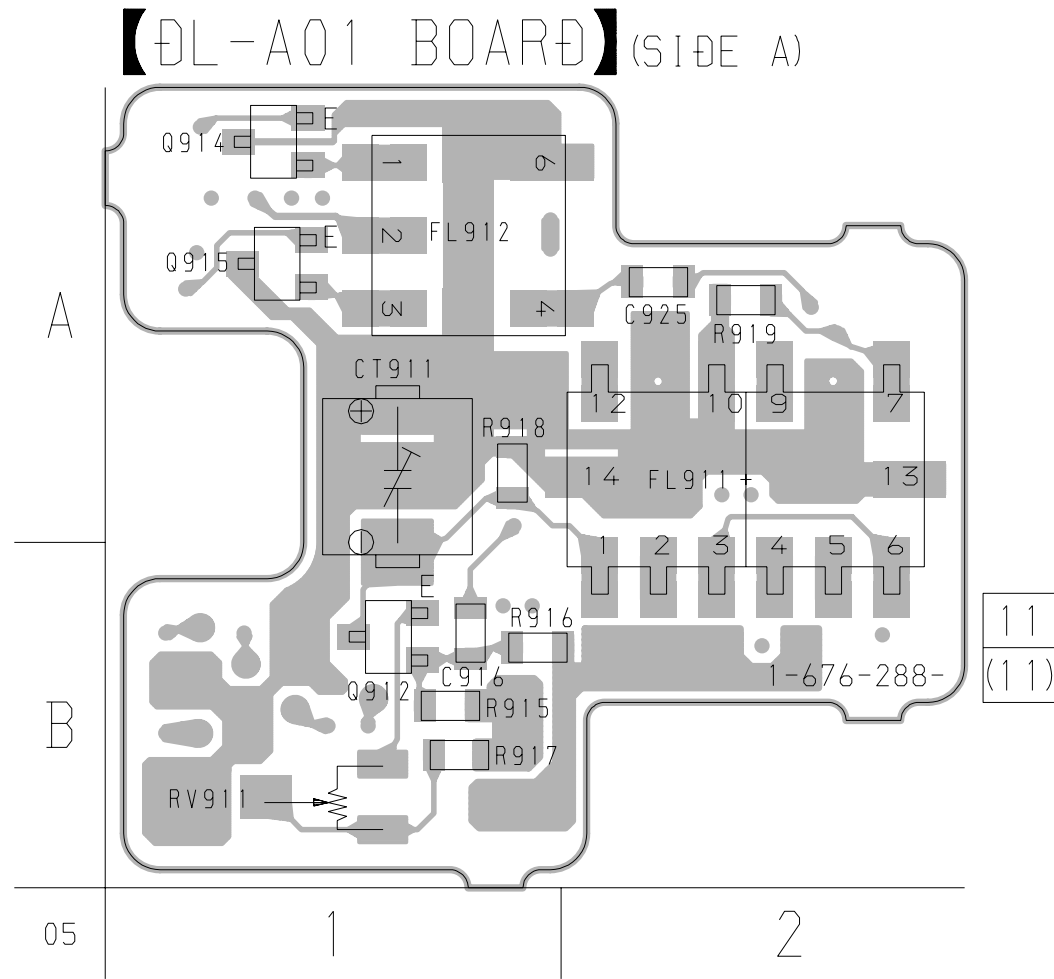
• Semiconductor Location (Side A)

| Ref. No. | Location |
|----------|----------|
| D801 | A-3 |
| IC804 | A-3 |
| Q811 | A-1 |
| Q812 | A-2 |
| Q813 | A-1 |
| Q814 | A-1 |
| Q830 | A-2 |
| Q831 | A-3 |
| Q901 | B-1 |



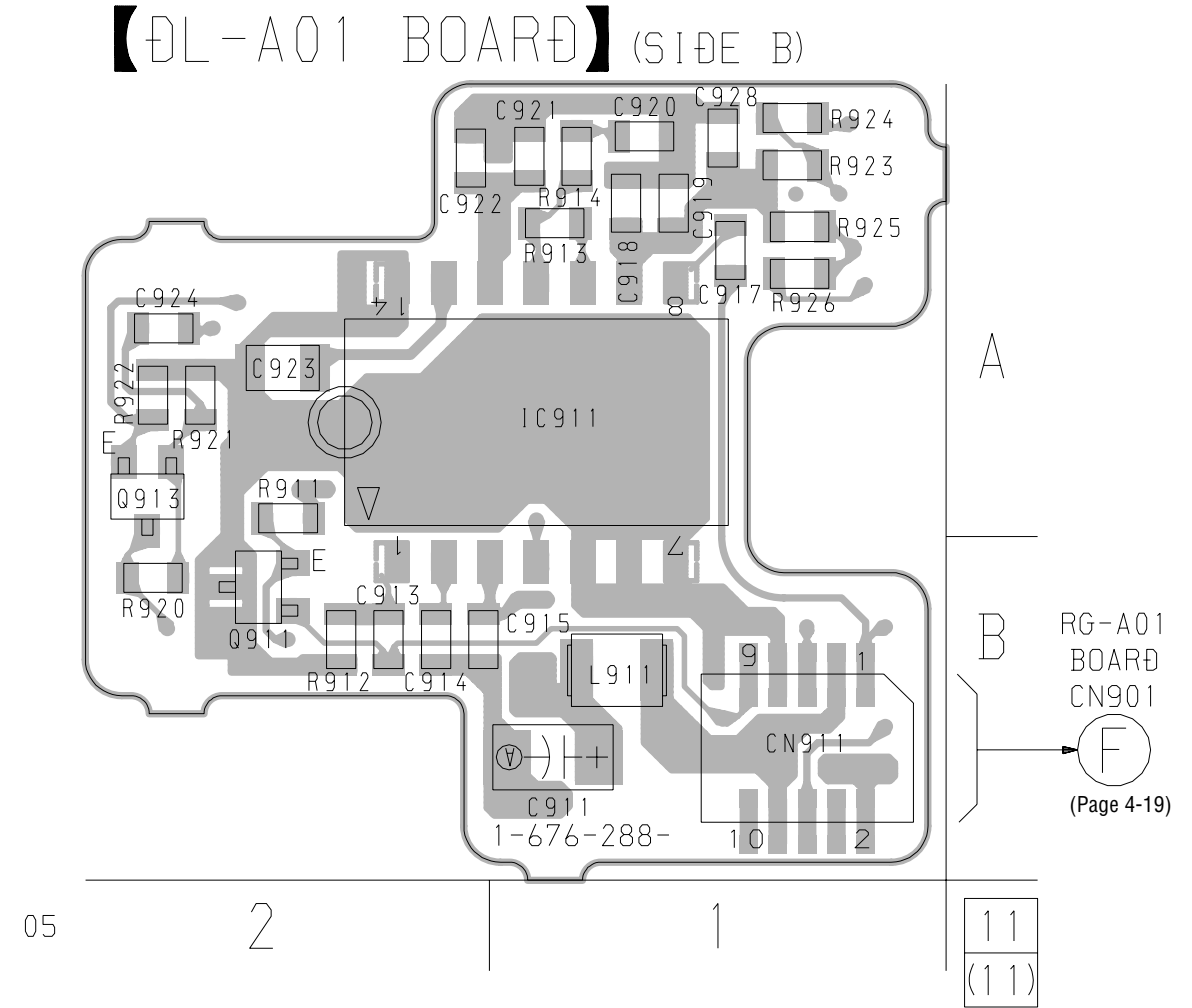
• Semiconductor Location (Side B)

| Ref. No. | Location |
|----------|----------|
| IC801 | A-2 |



• **Semiconductor Location (Side A)**

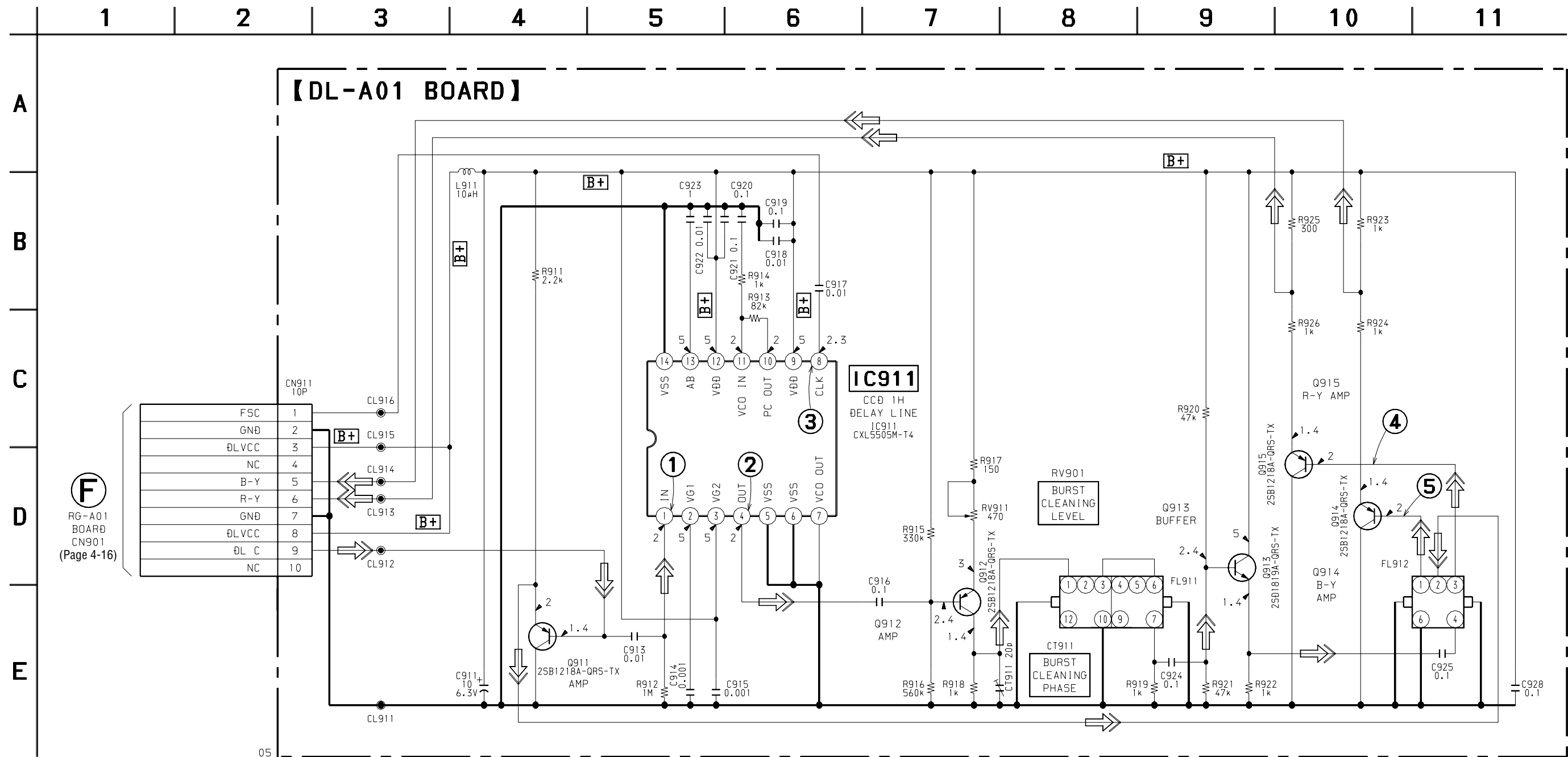
| Ref. No. | Location |
|----------|----------|
| Q912 | B-1 |
| Q914 | A-1 |
| Q915 | A-1 |



• **Semiconductor Location (Side B)**

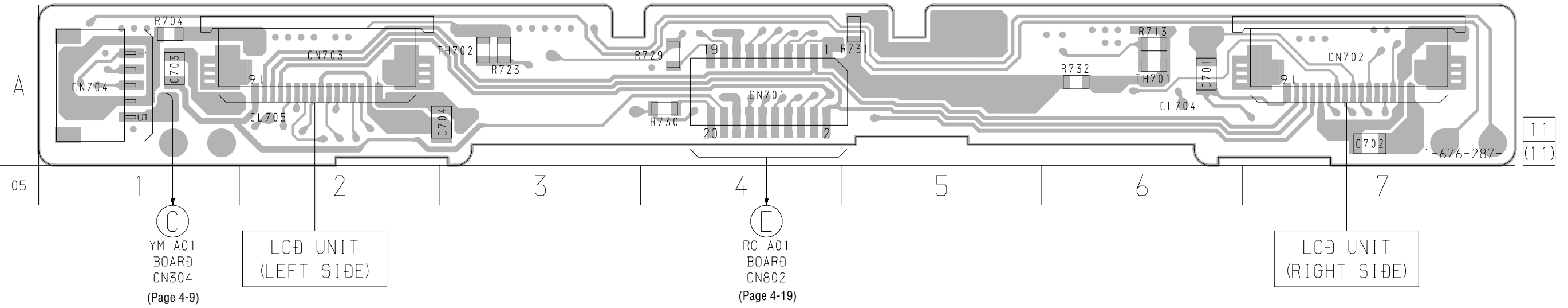
| Ref. No. | Location |
|----------|----------|
| IC911 | A-1 |
| Q911 | B-2 |
| Q913 | A-2 |

4-11. SCHEMATIC DIAGRAM – DL-A01 Board – • See page 4-34 for Waveforms. • See page 4-39 for IC Block Diagram.

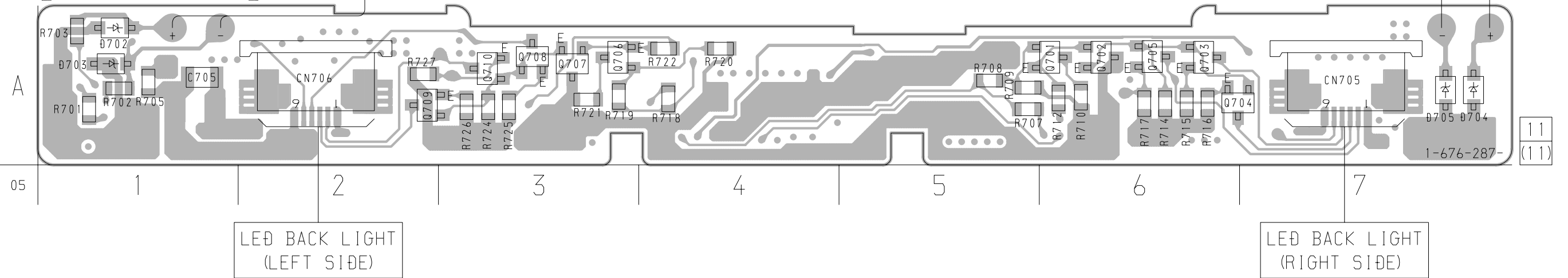


05

【HP-A01 BOARD】 (SIDE A)



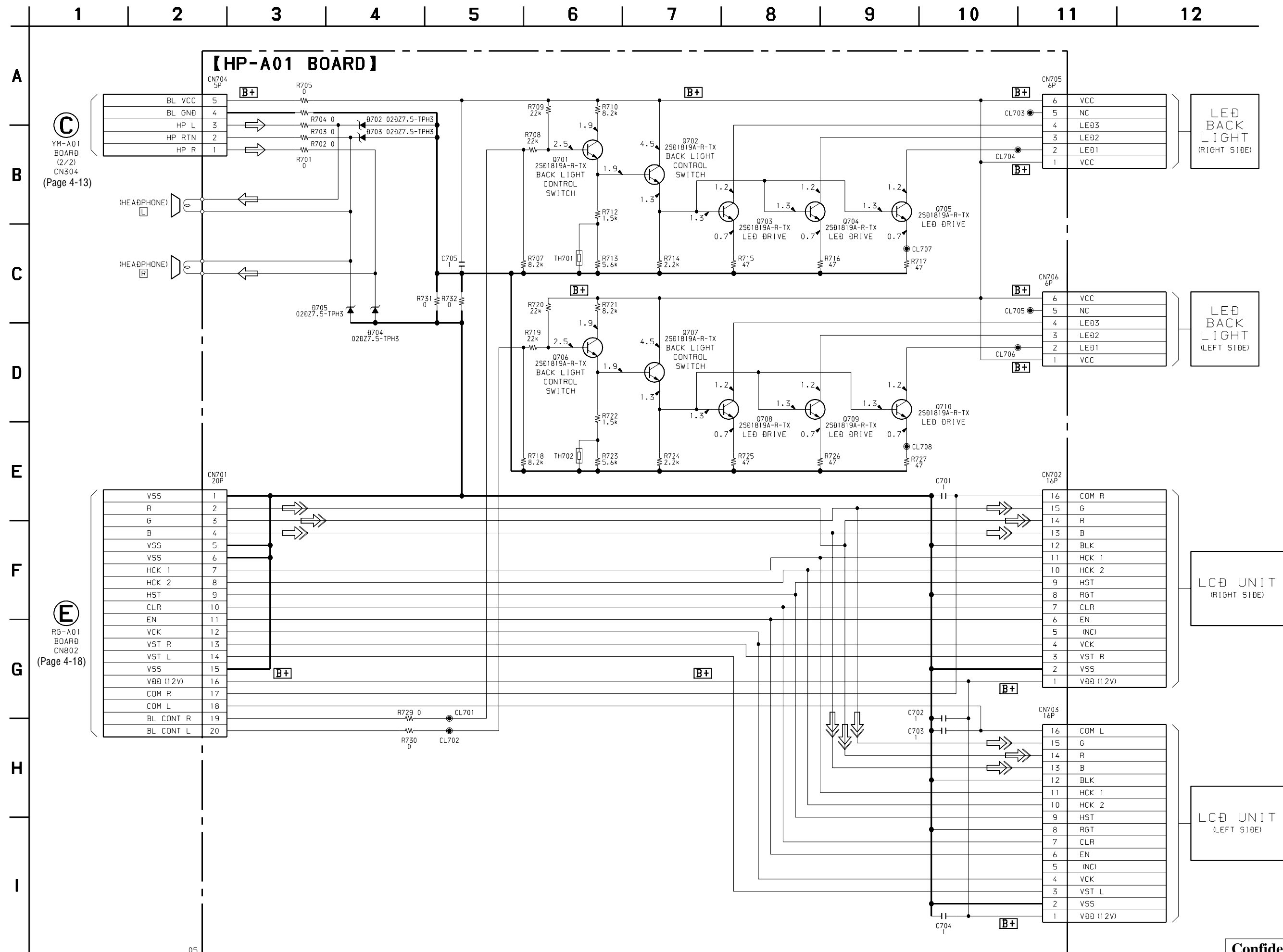
【HP-A01 BOARD】 (SIDE B)



• Semiconductor Location (Side B)

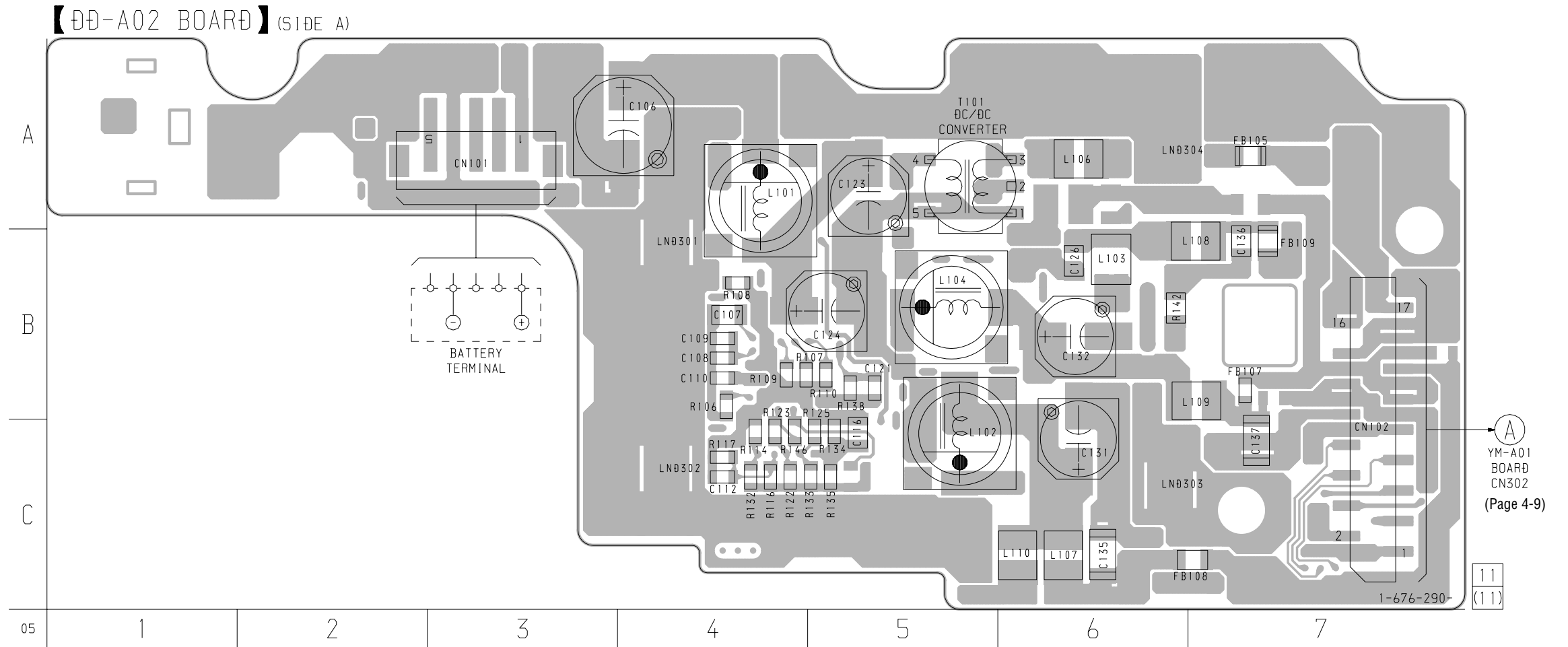
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D702 | A-1 | Q704 | A-6 |
| D703 | A-1 | Q705 | A-6 |
| D704 | A-7 | Q706 | A-3 |
| D705 | A-7 | Q707 | A-3 |
| | | Q708 | A-3 |
| Q701 | A-6 | Q709 | A-2 |
| Q702 | A-6 | Q710 | A-3 |
| Q703 | A-6 | | |

4-13. SCHEMATIC DIAGRAM – HP-A01 Board –



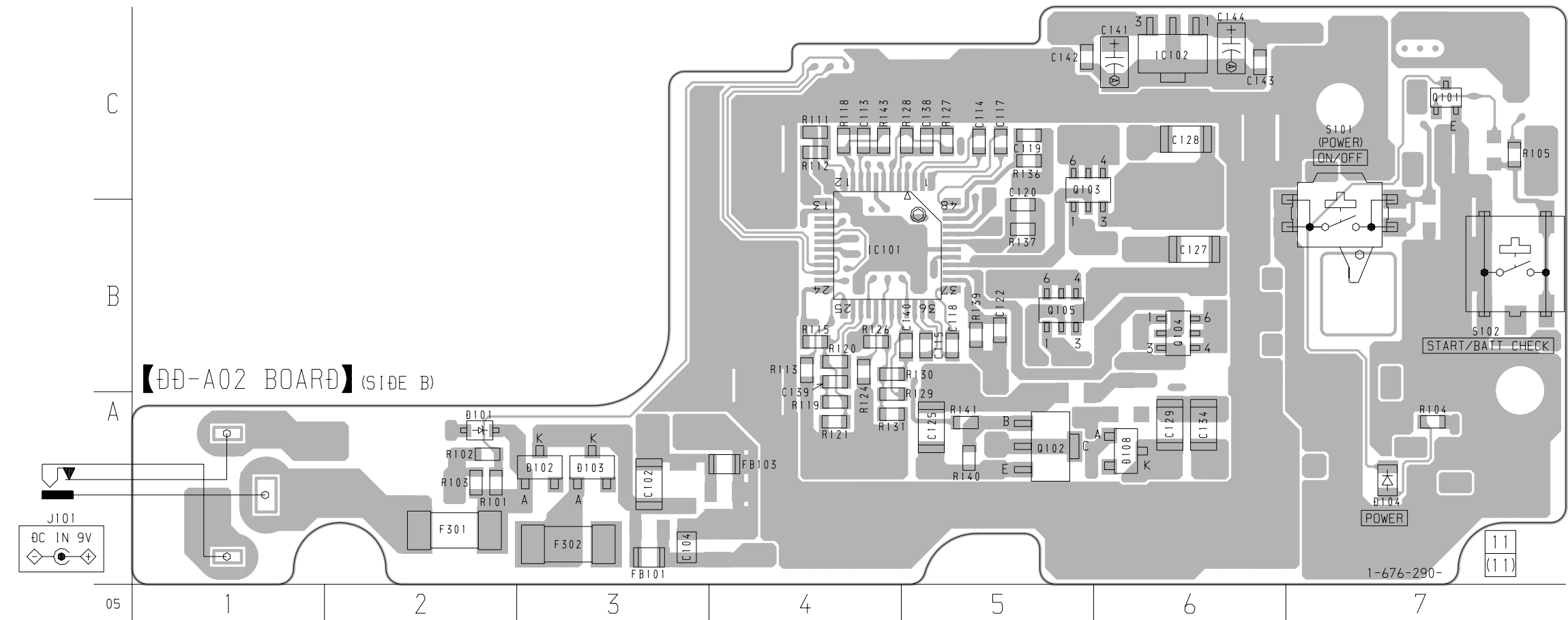
05

4-14. PRINTED WIRING BOARD – DD-A02 Board – • See page 4-8 for Circuit Boards Location.

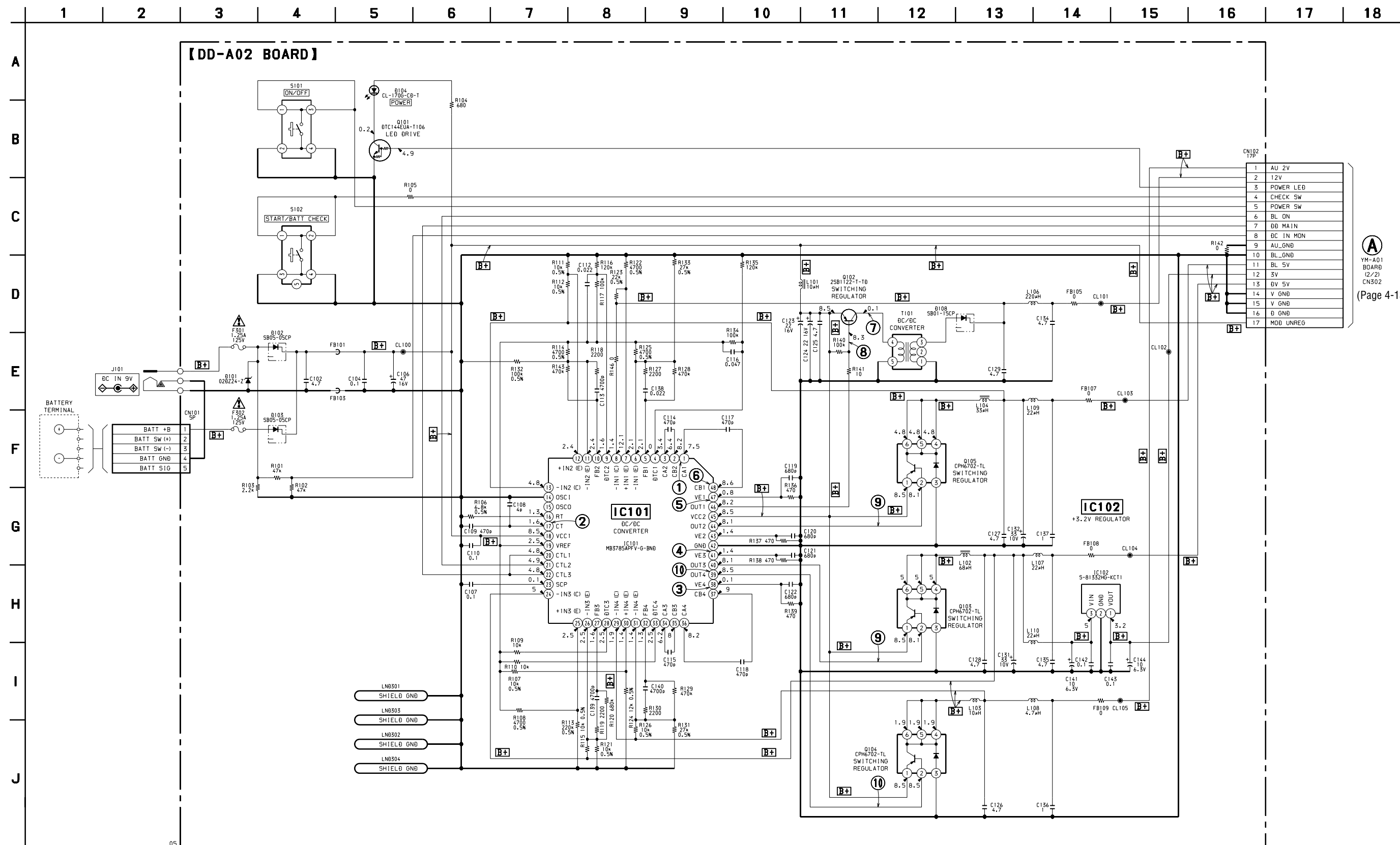


• Semiconductor Location (Side B)

| Ref. No. | Location |
|----------|----------|
| D101 | A-2 |
| D102 | A-3 |
| D103 | A-3 |
| D104 | A-7 |
| D108 | A-6 |
| IC101 | B-4 |
| IC102 | C-6 |
| Q101 | C-7 |
| Q102 | A-5 |
| Q103 | C-5 |
| Q104 | B-6 |
| Q105 | B-5 |



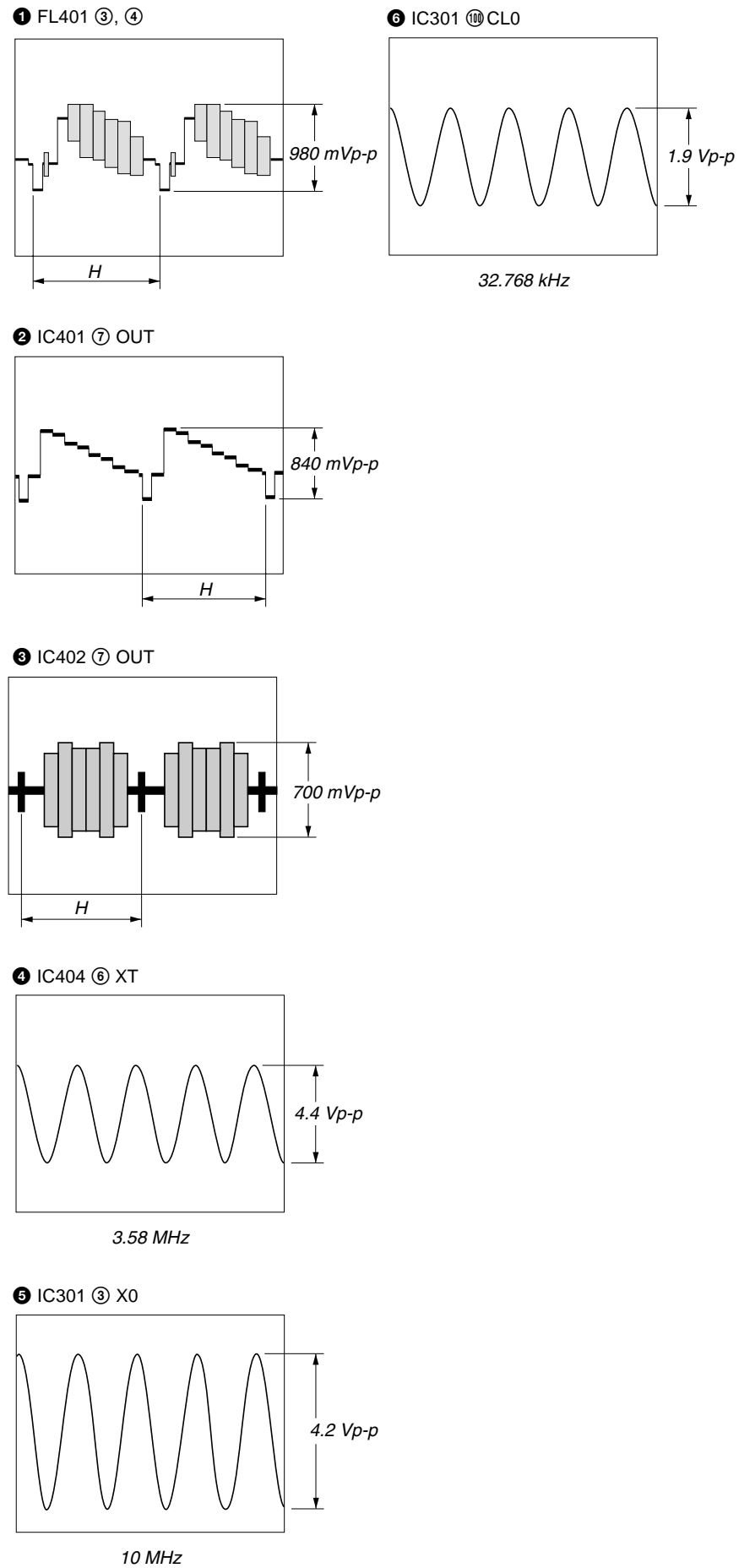
4-15. SCHEMATIC DIAGRAM – DD-A02 Board – • See page 4-35 for Waveforms. • See page 4-40 for IC Block Diagram.



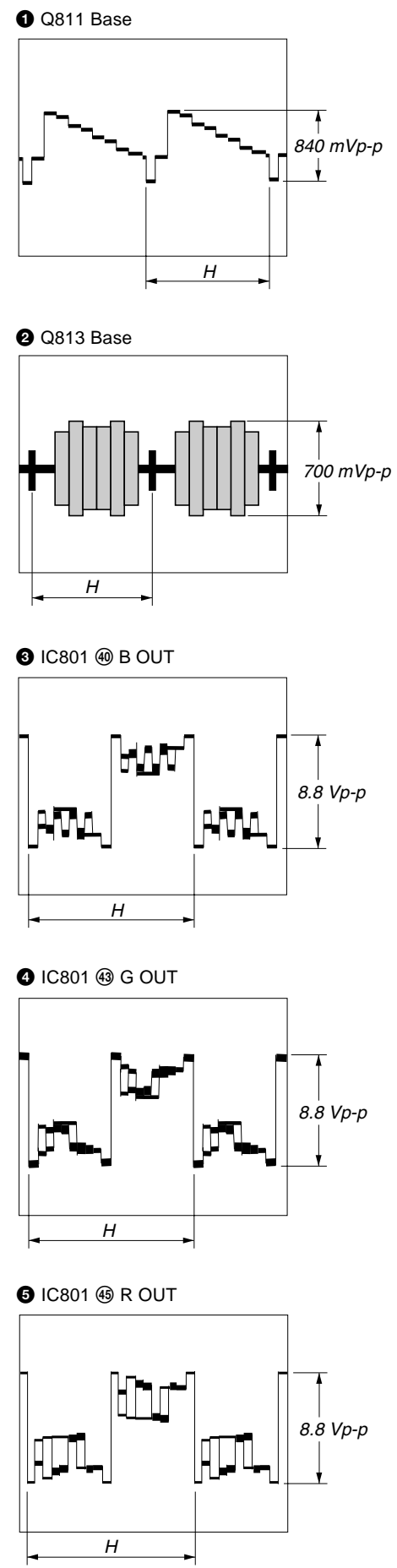
(A)
YM-A01
BOARD
(2/2)
CN502
(Page 4-13)

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

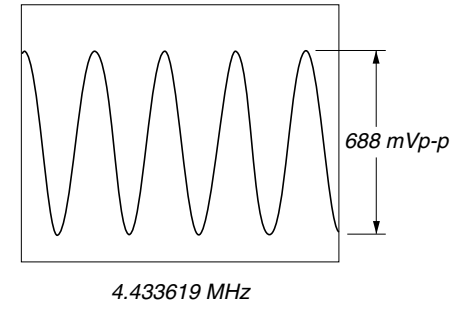
• Waveforms
–YM-A01 Board –



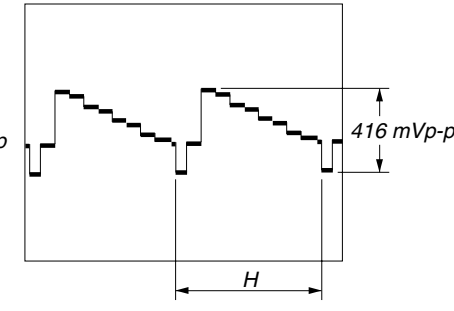
–RG-A01 Board –



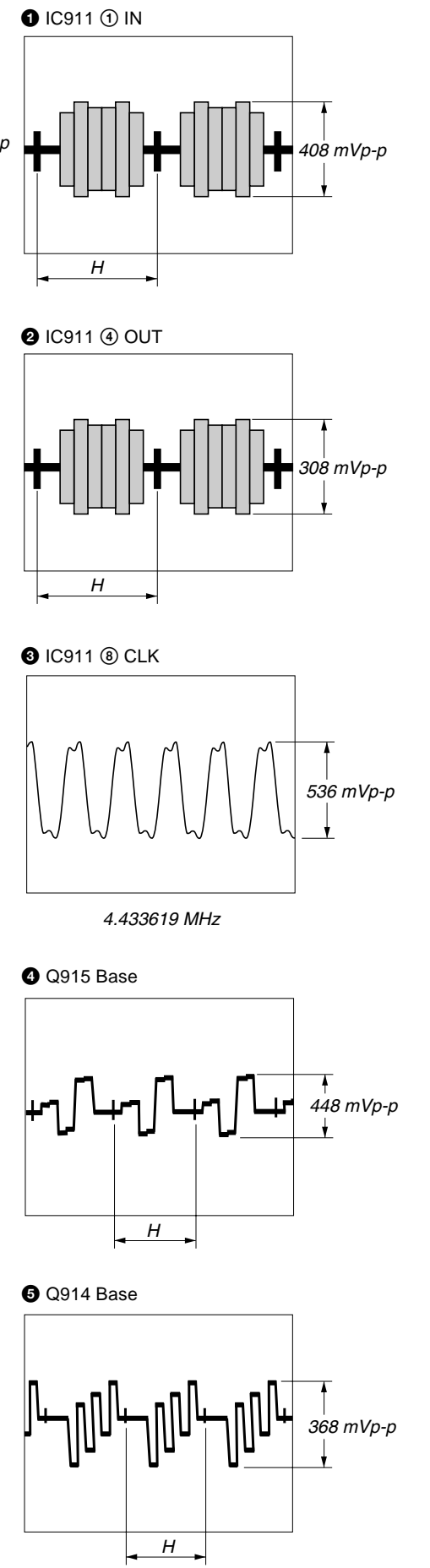
6 IC801 ⑤ VXO IN



11 IC801 ⑤ YIN

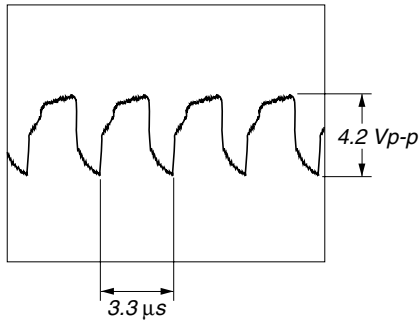


–DL-A01 Board –

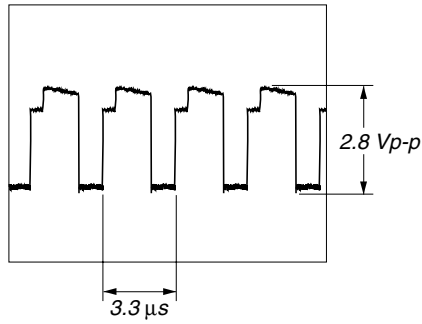


– DD-A02 Board –

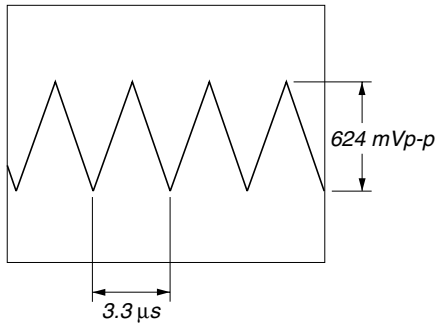
1 IC101 ① CA1



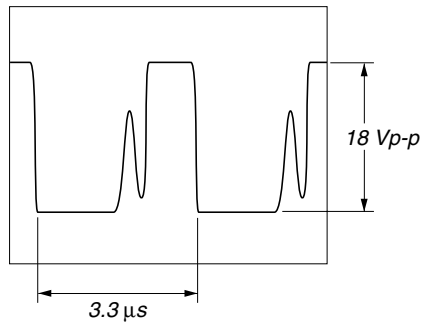
6 IC101 ④ CB1



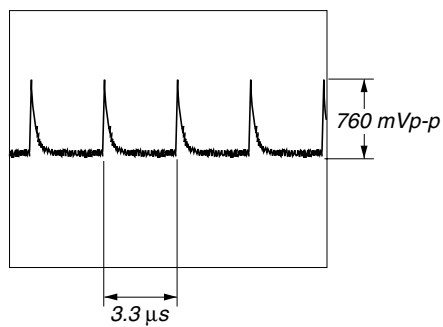
2 IC101 ⑰ CT



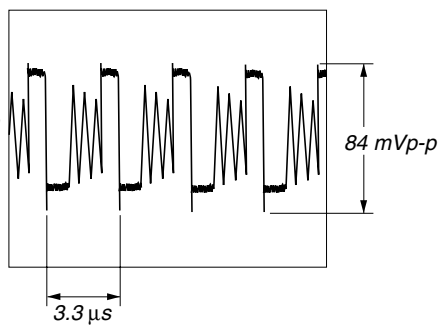
7 Q102 Collector



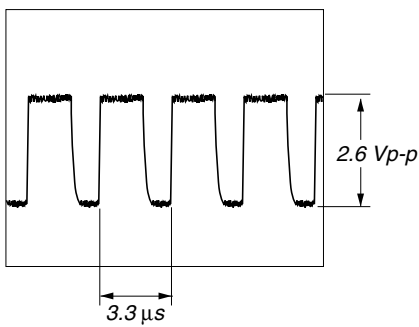
3 IC101 ⑳ VE4



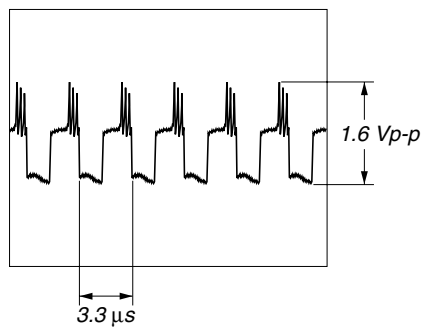
8 Q102 Base



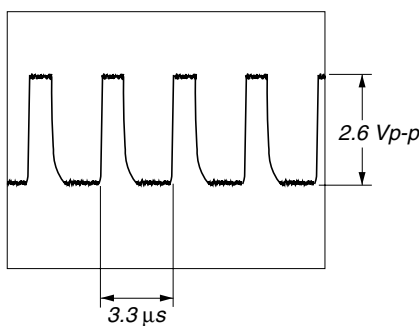
4 IC101 ④ VE3



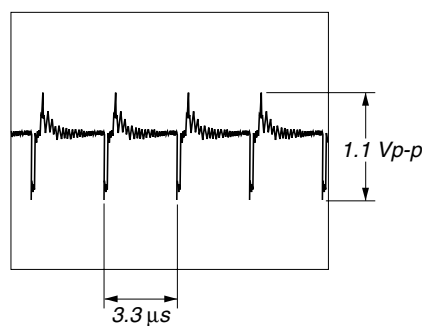
9 Q105 ②, Q103 ②



5 IC101 ④ VE1

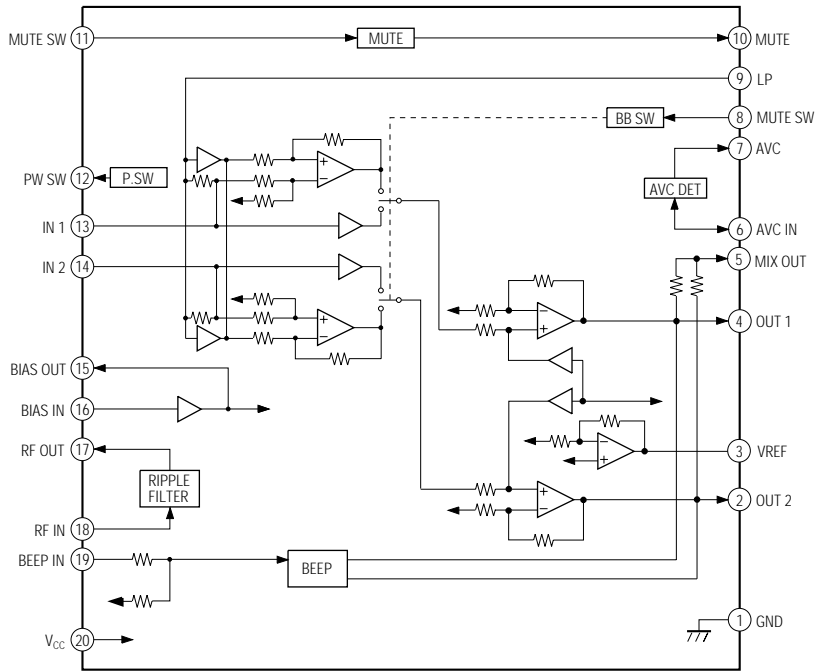


10 Q104 ②

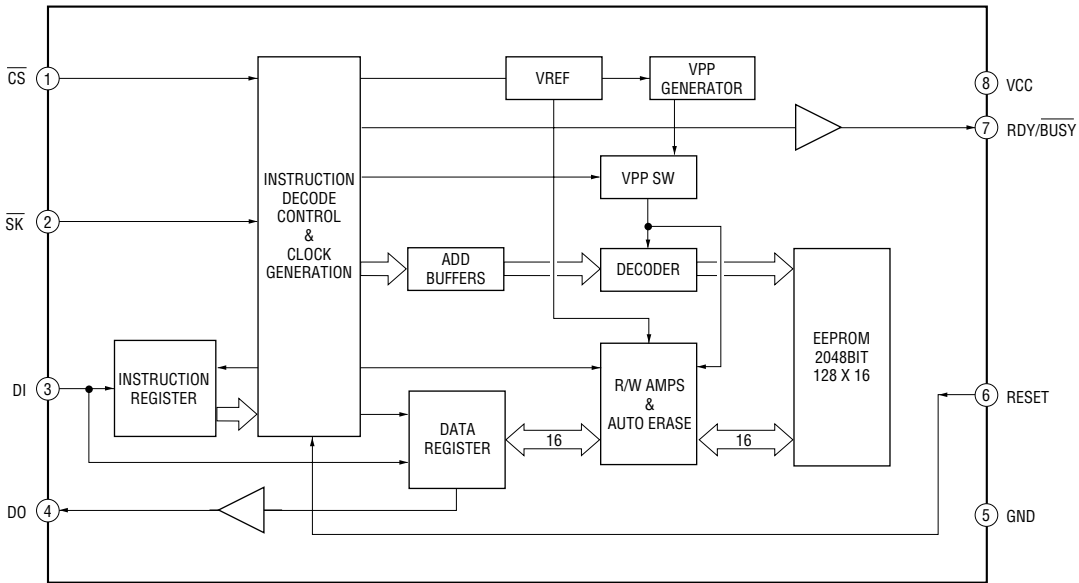


• IC Block Diagrams
 –YM-A01 Board –

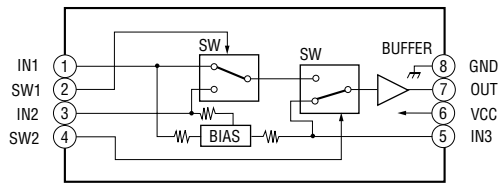
IC201 BA3574BFS-E2



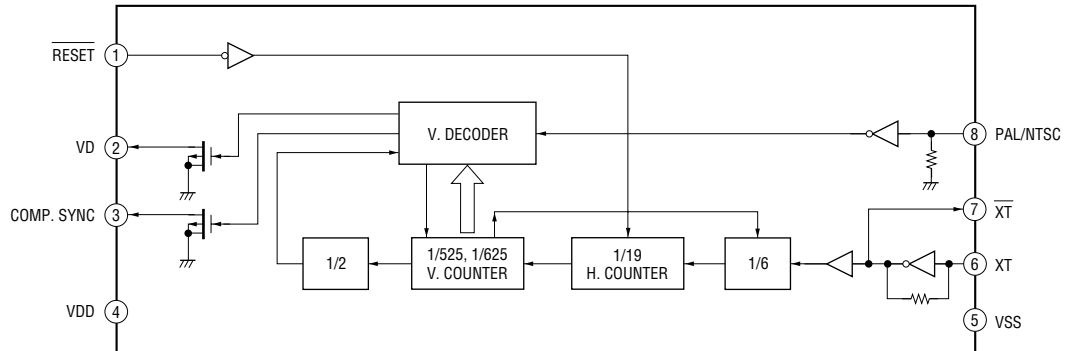
IC302 AK6420AM-E2



IC401, 402 MM1113XFBE

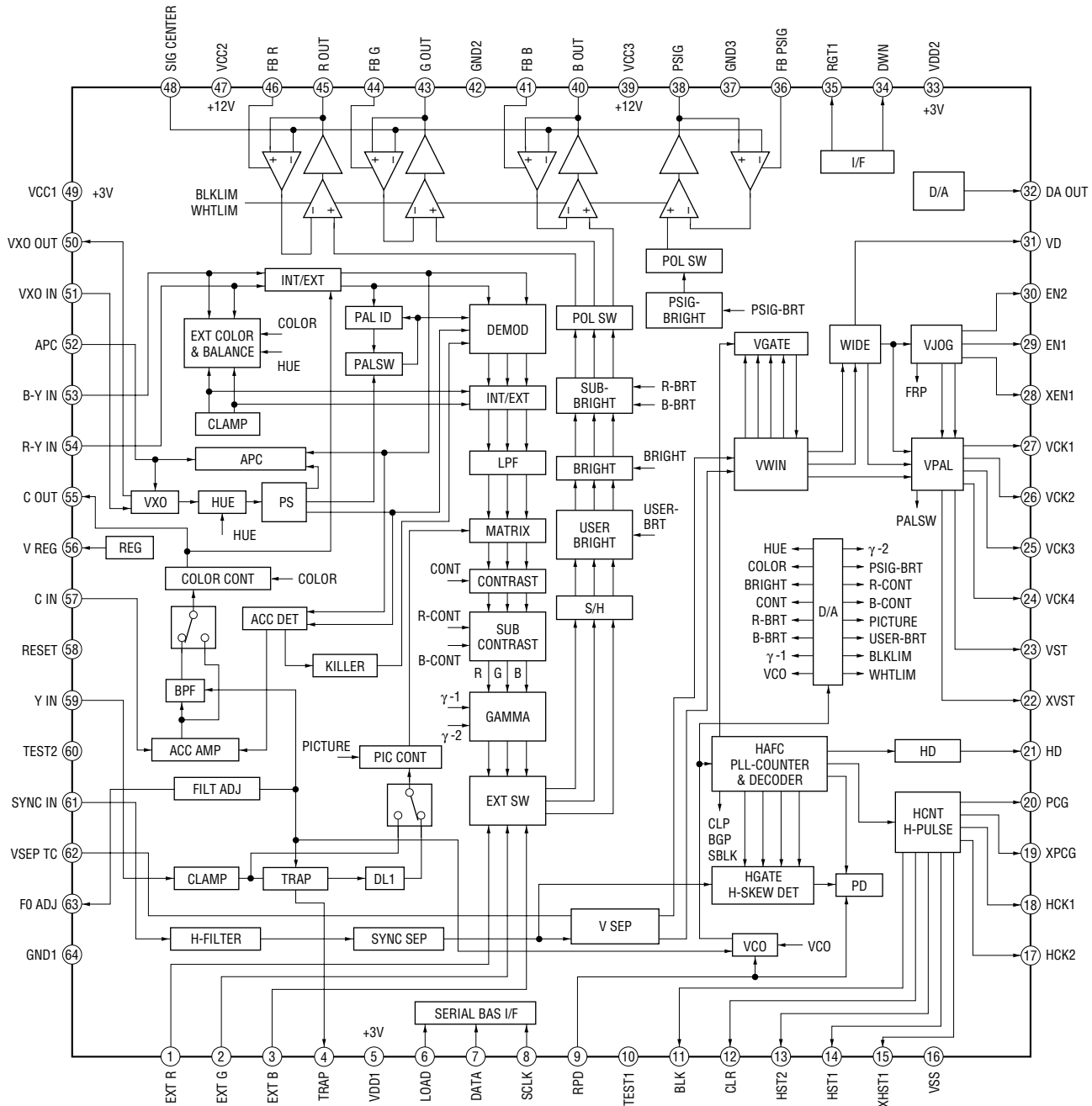


IC404 MSM5258MS-KR1

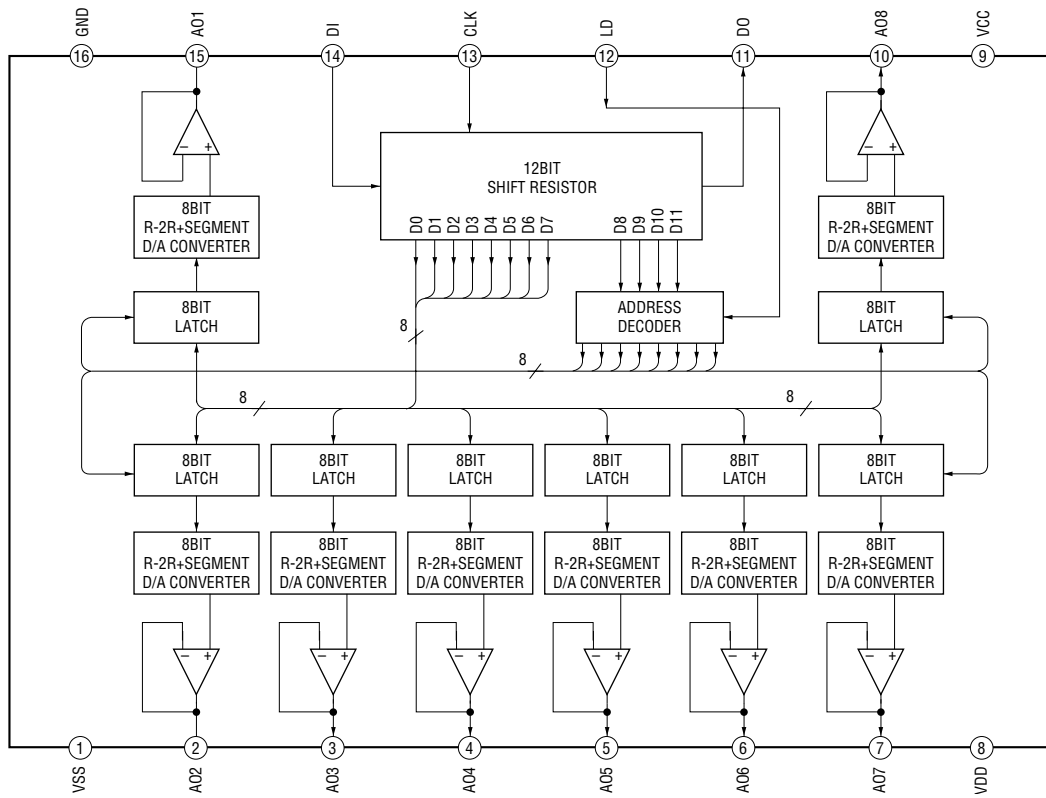


- RG-A01 Board -

IC801 CXA3017R-T6

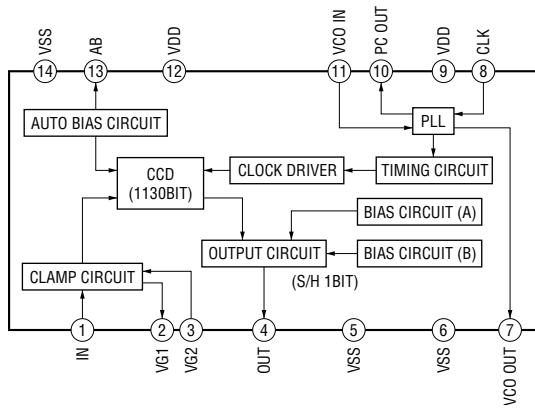


IC804 M62367GP-75ED



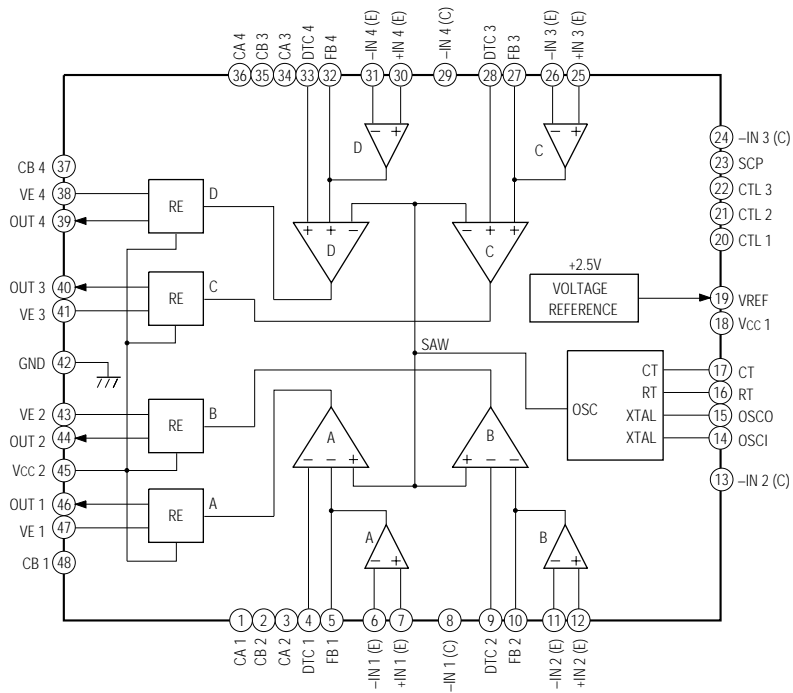
- DL-A01 Board -

IC911 CXL5505M-T4



– DD-A02 Board –

IC101 MB3785APFV-G-BND-ER



4-16. IC PIN FUNCTION DESCRIPTION

• YM-A01 BOARD IC301 MB89082PFV-G-118-BND (SYSTEM CONTROLLER)

| Pin No. | Pin Name | I/O | Description |
|----------|-----------------------------------|-----|--|
| 1 | TEST MODE 0 | I | Setting terminal for the test mode (Normally: fixed at "L") |
| 2 | TEST MODE 1 | I | Setting terminal for the test mode (Normally: fixed at "L") |
| 3 | X0 | I | Main system clock input terminal (10MHz) |
| 4 | X1 | O | Main system clock output terminal (10MHz) |
| 5 | VSS | — | Ground terminal |
| 6 | $\overline{\text{RESET}}$ | I | System reset signal input from the reset signal generator (IC304) "L" reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 7 | P00 | — | Not used (open) |
| 8 | USER LOCK | I | USER LOCK switch (S301) input terminal "H": user lock on |
| 9 | P02 | — | Not used (open) |
| 10 | AUDIO MUTE | O | Audio line muting control signal output terminal "H": muting on |
| 11 | VIDEO MUTE | O | Video muting control signal output terminal "H": muting on |
| 12 | P05 | — | Not used (open) |
| 13 | 3D MODE | O | 3D mode selection signal output terminal "L": 3D mode "H": normal mode Not used (open) |
| 14 | $\overline{\text{LANC POWER ON}}$ | I | Power supply control input of the LANC "L": power on Not used (open) |
| 15 | CHECK CROSS | I | START/BATT CHECK switch (S102) input terminal |
| 16 | P11 | — | Not used (open) |
| 17 | $\overline{\text{CV/S}}$ | I | Connection detect signal input of the S video in jack (J401) "L": connection |
| 18 | $\overline{\text{EXT VIDEO}}$ | O | External video signal output to the video select switch (IC401, 402) |
| 19, 20 | P14, P15 | — | Not used (open) |
| 21 | POWER SW | I | ON/OFF (power) switch (S101) input terminal (toggle input) "L" is input when power is turned on/off |
| 22 | P17 | — | Not used (open) |
| 23 | $\overline{\text{SYS RST}}$ | O | Reset signal output terminal "L": reset Not used (open) |
| 24 | $\overline{\text{POWER LED}}$ | O | LED drive signal output of the POWER indicator (D104) "H": LED on |
| 25 | P22 | — | Not used (open) |
| 26 | CLK 10M/32K | I | Selection input of the clock frequency "L": 32 kHz, "H": 10 MHz Not used (open) |
| 27 | AVLS ON | O | AVLS (Automatic Volume Limiter System) control signal output terminal "H": AVLS on Not used (open) |
| 28 | BL ON | O | Back light unit on/off control signal output to the DC/DC converter (IC101) "H": back light on |
| 29, 30 | P26, P27 | — | Not used (open) |
| 31 | BATT IN | I | Power failure detection input terminal |
| 32 | PBV | I | Vertical sync reference signal input terminal |
| 33 | DC IN MON | I | DC IN detection input terminal "L": DC present |
| 34 to 37 | P33 to P36 | — | Not used (open) |
| 38 | $\overline{\text{CS CAM}}$ | O | Chip select signal output terminal Not used (open) |
| 39 | V SYNC | I | Verticalsync signal input terminal |
| 40 | H SYNC | I | Horizontal sync signal input terminal |
| 41 | VOW 0 | O | VOW signal output terminal |
| 42 to 44 | P43 to P45 | — | Not used (open) |
| 45 | $\overline{\text{XDI}}$ | I | Clock signal input terminal |
| 46 | $\overline{\text{XDO}}$ | O | Clock signal output terminal |
| 47 | VCC | — | Power supply terminal (+5V) |
| 48 to 55 | SEG15 to SEG08 | O | LCD segment drive signal output terminal Not used (open) |

| Pin No. | Pin Name | I/O | Description |
|----------|---------------------------------|-----|---|
| 56 | VSS | — | Ground terminal |
| 57 to 64 | SEG07 to SEG00 | O | LCD segment drive signal output terminal Not used (open) |
| 65 to 68 | V3 to V0 | I | Bias voltage input for the LCD drive Not used |
| 69 to 72 | COM0 to COM3 | O | LCD common drive signal output terminal Not used (open) |
| 73 | SYNC DET | I | Input terminal of check signal whether sync signal is present or not Not used (open) |
| 74 | P81 | — | Not used (open) |
| 75 | DATA TO MASTER | I | Serial data input from the EEPROM (IC302) |
| 76 | DATA TO SLAVE | O | Serial data output to the EEPROM (IC302), LCD timing generator (IC801), and D/A converter (IC804) |
| 77 | $\overline{\text{MODECON SCK}}$ | O | Serial data transfer clock signal output to the EEPROM (IC302), LCD timing generator (IC801), and D/A converter (IC804) |
| 78 | CS LCD | O | Chip select signal output to the LCD timing generator (IC801) |
| 79 | DD MAIN | O | Main power supply control signal output to the DC/DC converter (IC101) |
| 80 | P87 | — | Not used (open) |
| 81 | AVSS | — | Ground terminal (for A/D input) |
| 82 | BRIGHT A/D | I | Brightness control (RV301) input terminal |
| 83, 84 | P91, P92 | — | Not used (open) |
| 85 | BATT SENCE | I | Input of battery capacity detection when rechargeable battery is used (A/D input) |
| 86 to 89 | P94 to P97 | — | Not used (open) |
| 90 | AVCC | — | Power supply terminal (+5V) (for A/D input) |
| 91 | $\overline{\text{CS EEPROM}}$ | O | Chip select signal output to the EEPROM (IC302) |
| 92 | $\overline{\text{WE EEPROM}}$ | O | Data write enable signal output to the EEPROM (IC302) |
| 93 | CS DA | O | Chip select signal output to the D/A converter (IC804) |
| 94 | PA3 | — | Not used (open) |
| 95 | LANC IN | I | LANC serial data input terminal (for check) |
| 96 | LANC OUT | O | LANC serial data output terminal (for check) |
| 97 | BUZZER | O | Buzzer sound output terminal Not used (open) |
| 98 | BACK UP VCC | — | Power supply terminal (+5V) |
| 99 | CL1 | O | Sub system clock output terminal (32.768 kHz) |
| 100 | CL0 | I | Sub system clock input terminal (32.768 kHz) |

• **RG-A01 BOARD IC801 CXA3017R-T6 (LCD RGB DECODER, LCD DRIVE, LCD TIMING GENERATOR)**

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 1 | EXT R | I | External digital R signal input terminal Not used (fixed at “L”) |
| 2 | EXT G | I | External digital G signal input terminal Not used (fixed at “L”) |
| 3 | EXT B | I | External digital B signal input terminal Not used (fixed at “L”) |
| 4 | TRAP | O | External trap connection terminal Not used (open) |
| 5 | VDD1 | — | Power supply terminal (+3V) (digital system) |
| 6 | LOAD | I | Chip select signal input from the system controller (IC301) |
| 7 | DATA | I | Serial data input from the system controller (IC301) |
| 8 | SCLK | I | Serial data transfer clock signal input from the system controller (IC301) |
| 9 | RPD | O | Phase comparator output terminal |
| 10 | TEST1 | I | Input terminal for the test Not used (fixed at “L”) |
| 11 | BLK | O | Blanking pulse signal output terminal Not used (open) |
| 12 | CLR | O | Clear pulse signal output to the left and right LCD units |
| 13 | HST2 | O | Horizontal start pulse 2 signal output to the left and right LCD units |
| 14 | HST1 | O | Horizontal start pulse 1 signal output terminal Not used (open) |
| 15 | XHST1 | O | Horizontal start pulse 1 signal output terminal (reverse polarity of the HST1 ⑭ pin) Not used (open) |
| 16 | VSS | — | Ground terminal (digital system) |
| 17 | HCK2 | O | Horizontal clock pulse 2 signal output to the left and right LCD units |
| 18 | HCK1 | O | Horizontal clock pulse 1 signal output to the left and right LCD units |
| 19 | XPCG | O | Pre charge pulse signal output terminal (reverse polarity of the PCG ⑳ pin) Not used (open) |
| 20 | PCG | O | Pre charge pulse signal output terminal Not used (open) |
| 21 | HD | O | Horizontal drive pulse signal output terminal |
| 22 | XVST | O | Vertical start pulse signal output to the left LCD unit (reverse polarity of the VST ㉓ pin) |
| 23 | VST | O | Vertical start pulse signal output to the right LCD unit |
| 24 | VCK4 | O | Vertical clock pulse 4 signal output to the left and right LCD units |
| 25 | VCK3 | O | Vertical clock pulse 3 signal output terminal Not used (open) |
| 26 | VCK2 | O | Vertical clock pulse 2 signal output terminal Not used (open) |
| 27 | VCK1 | O | Vertical clock pulse 1 signal output terminal Not used (open) |
| 28 | XEN1 | O | Enable pulse 1 signal output terminal (reverse polarity of the EN1 ㉙ pin) Not used (open) |
| 29 | EN1 | O | Enable pulse 1 signal output terminal Not used (open) |
| 30 | EN2 | O | Enable pulse 2 signal output to the left and right LCD units |
| 31 | VD | O | Vertical drive pulse signal output terminal Not used (open) |
| 32 | DA OUT | O | DAC signal output terminal Not used (open) |
| 33 | VDD2 | — | Power supply terminal (+3V) (digital system) |
| 34 | DWN | O | Up/down scan inversion switching signal output terminal (open collector output) Not used (open) |
| 35 | RGT1 | O | Left/right scan inversion switching signal output terminal (open collector output) Not used (open) |
| 36 | FB PSIG | I | Capacitor connection terminal for DC voltage feedback circuit of PSIG signal (pin ㉞) Not used (open) |
| 37 | GND3 | — | Ground terminal (analog system) for PSIG |
| 38 | PSIG | O | PSIG signal output terminal Not used (open) |
| 39 | VCC3 | — | Power supply terminal (+12V) (analog system) for PSIG Not used |
| 40 | B OUT | O | B signal (primary color signal) output to the left and right LCD units |
| 41 | FB B | I | Capacitor connection terminal for DC voltage feedback circuit of B signal (pin ㉟) |
| 42 | GND2 | — | Ground terminal (analog system) |

| Pin No. | Pin Name | I/O | Description |
|---------|-------------|-----|--|
| 43 | G OUT | O | G signal (primary color signal) output to the left and right LCD units |
| 44 | FB G | I | Capacitor connection terminal for DC voltage feedback circuit of G signal (pin ④) |
| 45 | R OUT | O | R signal (primary color signal) output to the left and right LCD units |
| 46 | FB R | I | Capacitor connection terminal for DC voltage feedback circuit of R signal (pin ⑤) |
| 47 | VCC2 | — | Power supply terminal (+12V) (analog system) |
| 48 | SIG. SENTER | I | DC voltage adjustment terminal for R, G, B, and PSIG signals output |
| 49 | VCC1 | — | Power supply terminal (+3V) (analog system) |
| 50 | VXO OUT | O | System clock output terminal (4.433619MHz) |
| 51 | VXO IN | I | System clock input terminal (4.433619MHz) |
| 52 | APC | O | Connection terminal of APC detection filter |
| 53 | B-Y IN | I | B-Y color difference-signal input from the demodulating circuit |
| 54 | R-Y IN | I | R-Y color difference-signal input from the demodulating circuit |
| 55 | C OUT | O | Video signal (chroma signal) output to the CCD 1H delay line (IC911) |
| 56 | V REG | O | Ground for a smoothing capacitor in internal constant-voltage power supply circuit |
| 57 | C IN | I | Video signal (chroma signal) input terminal |
| 58 | RESET | I | System reset terminal |
| 59 | Y IN | I | Video signal (brightness signal) input terminal |
| 60 | TEST2 | I | Input terminal for the test Not used (fixed at “L”) |
| 61 | SYNC IN | I | Video signal (brightness signal) input to the sync separation circuit |
| 62 | VSEP TC | — | Capacitor connection terminal for vertical sync separation |
| 63 | F0 ADJ | O | Resistor connection terminal for internal filter adjustment Not used (open) |
| 64 | GND1 | — | Ground terminal (analog system) |

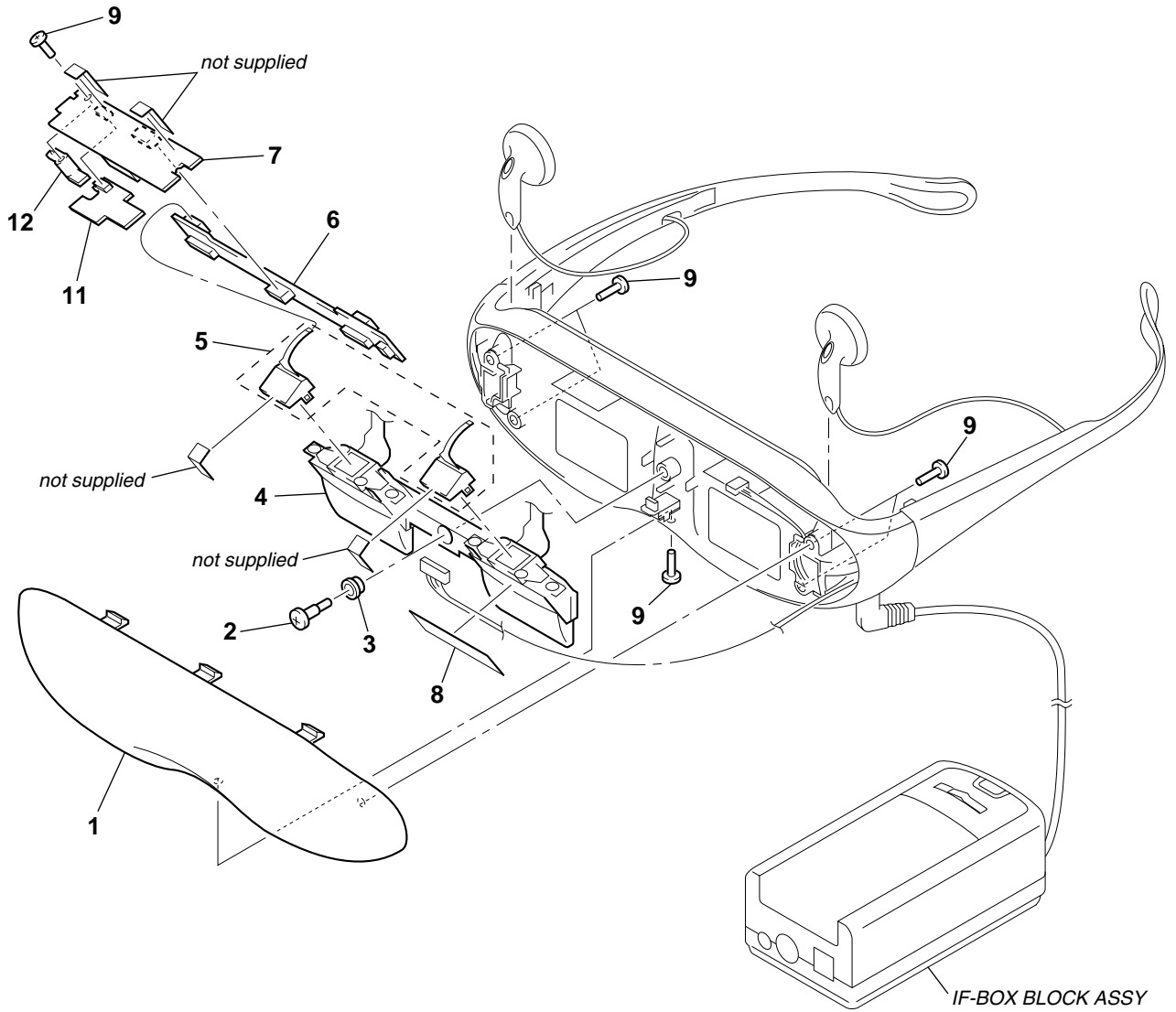
SECTION 5 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
 Parts Color Cabinet's Color

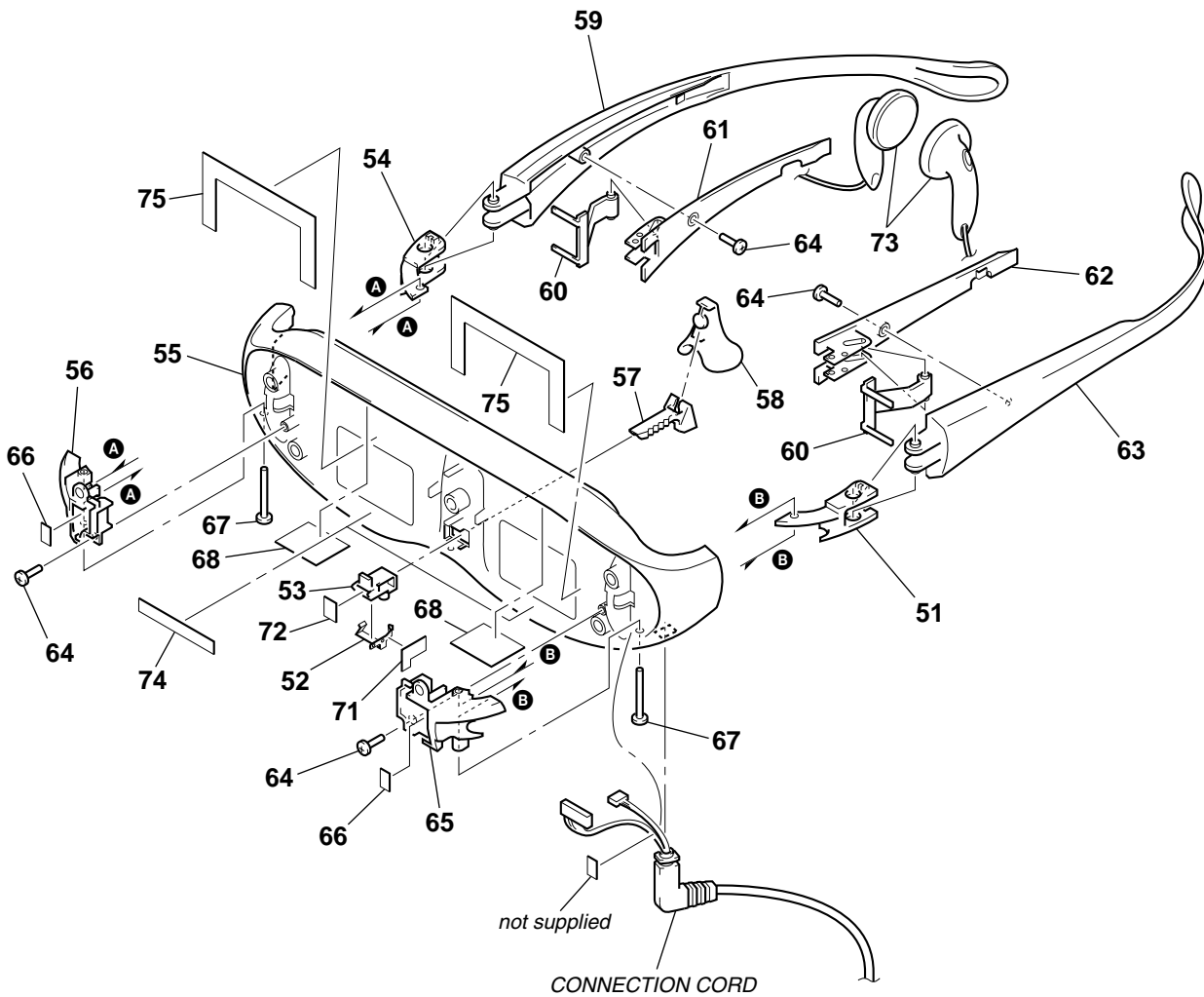
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

(1) CABINET SECTION-1



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|----------|--------------|-------------------------|--------|
| 1 | 4-644-700-05 | CABINET (FRONT) | | 7 | A-8056-676-A | RG-A01 (C) COMPLETE PWB | |
| 2 | 4-644-716-01 | SCREW, STEP | | 8 | 4-645-476-01 | SHEET, CORD CLAMP | |
| 3 | 4-644-703-01 | INSULATOR | | 9 | 3-929-548-11 | SCREW (1.7X6), +PTT | |
| 4 | 1-418-753-11 | LENS BLOCK | | 11 | A-8056-669-A | DL-A01 COMPLETE PWB | |
| 5 | 1-418-752-21 | LIGHT UNIT, BACK (S) | | 12 | 4-647-055-01 | HOLDER, PC BOARD | |
| 6 | A-8056-675-A | HP-A01 (C) MOUNTED PWB | | | | | |

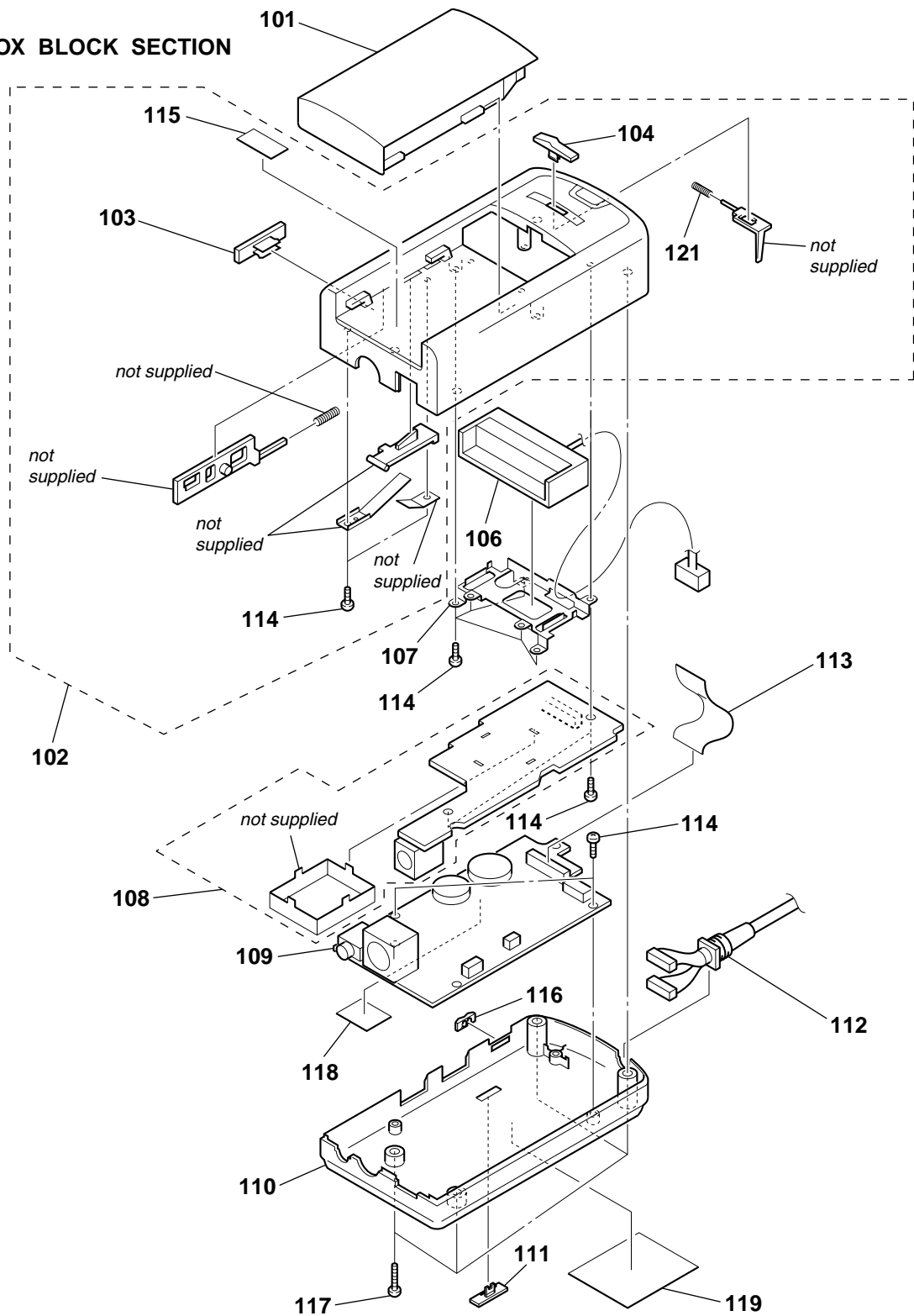
(2) CABINET SECTION-2



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------|--------|----------|--------------|---------------------------------|--------|
| 51 | 4-644-739-01 | BEARING (L), HINGE | | 63 | 4-644-735-02 | VINE (L) | |
| 52 | 4-644-704-02 | SPRING, NOSE | | 64 | 3-929-548-11 | SCREW (1.7X6), +PTT | |
| 53 | 4-644-705-01 | BLOCK, NOSE | | 65 | 4-644-737-02 | BLOCK (L), HINGE | |
| 54 | 4-644-738-01 | BEARING (R), HINGE | | 66 | 4-645-477-01 | SHEET, HINGE BLIND | |
| 55 | X-4622-756-1 | CABINET (REAR) ASSY | | 67 | 4-645-431-01 | SCREW (2X20), +PTT | |
| 56 | 4-644-736-02 | BLOCK (R), HINGE | | 68 | 4-645-478-01 | SHEET, FLEXIBLE ELECTROSTATIC | |
| 57 | 4-644-702-01 | SHAFT, NOSE | | 71 | 4-645-974-01 | SHEET (HORIZONTAL), NOSE BLOCK | |
| 58 | 4-644-701-12 | PAD, NOSE | | 72 | 4-645-973-01 | SHEET (REAR), NOSE BLOCK | |
| 59 | 4-644-734-02 | VINE (R) | | 73 | 8-953-771-90 | RECEIVER, EAR MDR-E805PT//K SET | |
| 60 | 4-644-742-02 | ADJUSTOR | | 74 | 4-646-546-01 | SHEET (LOWER), DUST PROTECTION | |
| 61 | 4-644-740-01 | COVER (R), VINE | | 75 | 4-646-547-01 | SHEET (UPPER), DUST PROTECTION | |
| 62 | 4-644-741-01 | COVER (L), VINE | | | | | |

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(3) IF-BOX BLOCK SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------|--------|----------|--------------|------------------------------|--------|
| 101 | 4-644-715-01 | COVER, BATTERY | | 112 | 1-791-933-11 | CORD, CONNECTION (MR) | |
| 102 | X-4622-740-1 | CABINET (IF) ASSY, UPPER | | 113 | 1-791-934-11 | CABLE, FLAT (FFC) 17P | |
| 103 | 3-988-786-11 | BUTTON, BATTERY RELEASE | | 114 | 3-948-339-61 | TAPPING | |
| 104 | 3-050-073-11 | KNOB, POWER | | 115 | 4-645-565-01 | LABEL, CHARGE CAUTION | |
| 106 | 1-694-076-21 | TERMINAL BOARD, BATTERY | | 116 | 3-050-081-11 | KNOB, SCREEN | |
| 107 | 4-644-747-02 | PLATE, TERMINAL RETAINER | | 117 | 3-936-997-01 | SCREW (DIA. 2X20), PRECISION | |
| 108 | A-8056-673-A | DD-A02 (C) COMPLETE PWB | | 118 | 4-645-961-01 | INSULATING SHEET | |
| 109 | A-8056-671-A | YM-A01 (C) COMPLETE PWB | | 119 | 4-645-724-01 | LABEL, CAUTION | |
| 110 | 4-644-721-01 | CABINET (IF), LOWER | | 121 | 3-355-445-01 | SPRING, COMPRESSION | |
| 111 | 4-644-722-01 | KNOB, USER LOCK | | | | | |

Confidential

MEMO

Confidential

PLM-A35E (AEP)

5-4
(END)

SECTION 6 ELECTRICAL PARTS LIST

DD-A02

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|------------|---------------|--------------|----------------------------------|------------|
| | A-8056-673-A | DD-A02 (C) COMPLETE PWB ***** | | D101 | 8-719-065-58 | DIODE 02DZ24-Z (TPH3) | |
| C102 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | D102 | 8-719-938-75 | DIODE SB05-05CP-TB | |
| C104 | 1-163-038-91 | CERAMIC CHIP 0.1uF | 25V | D103 | 8-719-938-75 | DIODE SB05-05CP-TB | |
| C106 | 1-126-204-11 | ELECT CHIP 47uF | 20% 16V | D104 | 8-719-991-27 | LED CL-170G-CD-T (POWER) | |
| C107 | 1-107-725-11 | CERAMIC CHIP 0.1uF | 10% 16V | D108 | 8-719-987-19 | DIODE SB01-15CP-TB | |
| C108 | 1-162-909-11 | CERAMIC CHIP 4PF | 0.25PF 50V | Δ F301 | 1-533-626-21 | FUSE (SMD) 1.25A | 125V |
| | | | | Δ F302 | 1-533-626-21 | FUSE (SMD) 1.25A | 125V |
| C109 | 1-164-814-91 | CERAMIC CHIP 470PF | 2% 50V | FB101 | 1-543-962-22 | FERRITE | |
| C110 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | FB103 | 1-543-962-22 | FERRITE | |
| C112 | 1-107-727-91 | CERAMIC CHIP 0.022uF | 10% 16V | FB105 | 1-216-295-91 | SHORT | 0 |
| C113 | 1-162-968-11 | CERAMIC CHIP 0.0047uF | 10% 50V | FB107 | 1-216-864-11 | SHORT | 0 |
| C114 | 1-162-962-11 | CERAMIC CHIP 470PF | 10% 50V | FB108 | 1-216-295-91 | SHORT | 0 |
| C115 | 1-162-962-11 | CERAMIC CHIP 470PF | 10% 50V | FB109 | 1-216-295-91 | SHORT | 0 |
| C116 | 1-163-809-11 | CERAMIC CHIP 0.047uF | 10% 25V | IC101 | 8-759-060-93 | IC MB3785APFV-G-BND-ER | |
| C117 | 1-162-962-11 | CERAMIC CHIP 470PF | 10% 50V | IC102 | 8-759-085-76 | IC S-81332HG-KC-T1 | |
| C118 | 1-162-962-11 | CERAMIC CHIP 470PF | 10% 50V | J101 | 1-695-565-11 | JACK, DC (POLARITY UNIFIED TYPE) | (DC IN 9V) |
| C119 | 1-162-963-11 | CERAMIC CHIP 680PF | 10% 50V | | | | |
| C120 | 1-162-963-11 | CERAMIC CHIP 680PF | 10% 50V | L101 | 1-424-653-11 | INDUCTOR 10uH | |
| C121 | 1-162-963-11 | CERAMIC CHIP 680PF | 10% 50V | L102 | 1-402-831-21 | INDUCTOR 68uH | |
| C122 | 1-162-963-11 | CERAMIC CHIP 680PF | 10% 50V | L103 | 1-414-398-11 | INDUCTOR 10uH | |
| C123 | 1-126-395-11 | ELECT CHIP 22uF | 20% 16V | L104 | 1-424-675-11 | INDUCTOR 33uH | |
| C124 | 1-126-395-11 | ELECT CHIP 22uF | 20% 16V | L106 | 1-412-033-11 | INDUCTOR CHIP 220uH | |
| C125 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | L107 | 1-412-030-11 | INDUCTOR CHIP 22uH | |
| C126 | 1-117-720-11 | CERAMIC CHIP 4.7uF | 10V | L108 | 1-412-028-11 | INDUCTOR CHIP 4.7uH | |
| C127 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | L109 | 1-412-030-11 | INDUCTOR CHIP 22uH | |
| C128 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | L110 | 1-412-030-11 | INDUCTOR CHIP 22uH | |
| C129 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | Q101 | 8-729-029-14 | TRANSISTOR DTC144EUA-T106 | |
| C131 | 1-126-393-11 | ELECT CHIP 33uF | 20% 10V | Q102 | 8-729-804-52 | TRANSISTOR 2SB1122-T-TD | |
| C132 | 1-126-393-11 | ELECT CHIP 33uF | 20% 10V | Q103 | 8-729-046-98 | TRANSISTOR CPH6702-TL | |
| C133 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | Q104 | 8-729-046-98 | TRANSISTOR CPH6702-TL | |
| C134 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | Q105 | 8-729-046-98 | TRANSISTOR CPH6702-TL | |
| C135 | 1-164-506-11 | CERAMIC CHIP 4.7uF | 16V | R101 | 1-216-841-11 | RES-CHIP 47K 5% 1/16W | |
| C136 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V | R102 | 1-216-841-11 | RES-CHIP 47K 5% 1/16W | |
| C137 | 1-162-638-11 | CERAMIC CHIP 1uF | 16V | R103 | 1-216-825-11 | RES-CHIP 2.2K 5% 1/16W | |
| C138 | 1-107-727-91 | CERAMIC CHIP 0.022uF | 10% 16V | R104 | 1-216-819-11 | RES-CHIP 680 5% 1/16W | |
| C139 | 1-162-968-11 | CERAMIC CHIP 0.0047uF | 10% 50V | R105 | 1-216-864-11 | SHORT 0 | |
| C140 | 1-162-968-11 | CERAMIC CHIP 0.0047uF | 10% 50V | R106 | 1-218-867-11 | METAL CHIP 6.8K 0.5% 1/16W | |
| C141 | 1-135-259-11 | TANTALUM CHIP 10uF | 20% 6.3V | R107 | 1-218-871-11 | METAL CHIP 10K 0.5% 1/16W | |
| C142 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | R108 | 1-218-863-11 | METAL CHIP 4.7K 0.5% 1/16W | |
| C143 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | R109 | 1-216-833-91 | RES-CHIP 10K 5% 1/16W | |
| C144 | 1-135-259-11 | TANTALUM CHIP 10uF | 20% 6.3V | R110 | 1-216-833-91 | RES-CHIP 10K 5% 1/16W | |
| * CN101 | 1-573-768-21 | PIN, CONNECTOR (1.5MM) (SMD) 5P | | | | | |
| CN102 | 1-774-768-11 | CONNECTOR, FFC/FPC 17P | | | | | |

Confidential

DD-A02

DL-A01

HP-A01

| Ref. No. | Part No. | Description | Remark |
|----------------------------------|--------------|---------------------------------------|------------|
| R111 | 1-218-871-11 | METAL CHIP 10K | 0.5% 1/16W |
| R112 | 1-218-871-11 | METAL CHIP 10K | 0.5% 1/16W |
| R113 | 1-218-903-11 | METAL CHIP 220K | 0.5% 1/16W |
| R114 | 1-218-863-11 | METAL CHIP 4.7K | 0.5% 1/16W |
| R115 | 1-218-871-11 | METAL CHIP 10K | 0.5% 1/16W |
| R116 | 1-216-846-11 | RES-CHIP 120K | 5% 1/16W |
| R117 | 1-216-845-11 | RES-CHIP 100K | 5% 1/16W |
| R118 | 1-216-825-11 | RES-CHIP 2.2K | 5% 1/16W |
| R119 | 1-216-825-11 | RES-CHIP 2.2K | 5% 1/16W |
| R120 | 1-216-855-11 | RES-CHIP 680K | 5% 1/16W |
| R121 | 1-218-871-11 | METAL CHIP 10K | 0.5% 1/16W |
| R122 | 1-218-863-11 | METAL CHIP 4.7K | 0.5% 1/16W |
| R123 | 1-218-879-11 | METAL CHIP 22K | 0.5% 1/16W |
| R124 | 1-218-873-11 | METAL CHIP 12K | 0.5% 1/16W |
| R125 | 1-218-863-11 | METAL CHIP 4.7K | 0.5% 1/16W |
| R126 | 1-218-871-11 | METAL CHIP 10K | 0.5% 1/16W |
| R127 | 1-216-825-11 | RES-CHIP 2.2K | 5% 1/16W |
| R128 | 1-216-853-11 | RES-CHIP 470K | 5% 1/16W |
| R129 | 1-216-853-11 | RES-CHIP 470K | 5% 1/16W |
| R130 | 1-216-825-11 | RES-CHIP 2.2K | 5% 1/16W |
| R131 | 1-218-881-11 | METAL CHIP 27K | 0.5% 1/16W |
| R132 | 1-218-895-11 | METAL CHIP 100K | 0.5% 1/16W |
| R133 | 1-218-881-11 | METAL CHIP 27K | 0.5% 1/16W |
| R134 | 1-216-845-11 | RES-CHIP 100K | 5% 1/16W |
| R135 | 1-216-846-11 | RES-CHIP 120K | 5% 1/16W |
| R136 | 1-216-817-11 | RES-CHIP 470 | 5% 1/16W |
| R137 | 1-216-817-11 | RES-CHIP 470 | 5% 1/16W |
| R138 | 1-216-817-11 | RES-CHIP 470 | 5% 1/16W |
| R139 | 1-216-817-11 | RES-CHIP 470 | 5% 1/16W |
| R140 | 1-216-845-11 | RES-CHIP 100K | 5% 1/16W |
| R141 | 1-216-797-11 | RES-CHIP 10 | 5% 1/16W |
| R142 | 1-216-295-91 | SHORT 0 | |
| R143 | 1-216-853-11 | RES-CHIP 470K | 5% 1/16W |
| R146 | 1-216-864-11 | SHORT 0 | |
| S101 | 1-771-331-21 | SWITCH, PUSH (1 KEY) (ON/OFF (POWER)) | |
| S102 | 1-571-787-31 | SWITCH, TACTILE (START/BATT CHECK) | |
| T101 | 1-429-719-21 | TRANSFORMER, DC-DC CONVERTER | |
| ***** | | | |
| A-8056-669-A DL-A01 COMPLETE PWB | | | |
| ***** | | | |
| C911 | 1-135-259-11 | TANTALUM CHIP 10uF | 20% 6.3V |
| C913 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C914 | 1-162-964-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C915 | 1-162-964-11 | CERAMIC CHIP 0.001uF | 10% 50V |
| C916 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C917 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C918 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| C919 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C920 | 1-107-826-91 | CERAMIC CHIP 0.1uF | 10% 16V |
| C921 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| C922 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| C923 | 1-109-982-11 | CERAMIC CHIP 1uF | 10% 10V |
| C924 | 1-107-826-91 | CERAMIC CHIP 0.1uF | 10% 16V |
| C925 | 1-107-826-91 | CERAMIC CHIP 0.1uF | 10% 16V |
| C928 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| * CN911 | 1-691-921-11 | CONNECTOR, BOARD TO BOARD 10P | |

| Ref. No. | Part No. | Description | Remark |
|-------------------------------------|--------------|-------------------------------|----------|
| CT911 | 1-141-367-51 | CAP, CHIP TRIMMER 20PF | |
| FL911 | 1-233-455-21 | FILTER, BAND PASS | |
| FL912 | 1-459-949-11 | COIL | |
| IC911 | 8-752-353-94 | IC CXL5505M-T4 | |
| L911 | 1-414-754-11 | INDUCTOR 10uH | |
| Q911 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| Q912 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| Q913 | 8-729-420-29 | TRANSISTOR 2SD1819A-QRS-TX | |
| Q914 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| Q915 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| R911 | 1-216-825-11 | RES-CHIP 2.2K | 5% 1/16W |
| R912 | 1-216-857-11 | RES-CHIP 1M | 5% 1/16W |
| R913 | 1-216-844-11 | RES-CHIP 82K | 5% 1/16W |
| R914 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| R915 | 1-216-851-11 | RES-CHIP 330K | 5% 1/16W |
| R916 | 1-216-854-11 | RES-CHIP 560K | 5% 1/16W |
| R917 | 1-216-811-11 | RES-CHIP 150 | 5% 1/16W |
| R918 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| R919 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| R920 | 1-216-841-11 | RES-CHIP 47K | 5% 1/16W |
| R921 | 1-216-841-11 | RES-CHIP 47K | 5% 1/16W |
| R922 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| R923 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| R924 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| R925 | 1-218-288-11 | RES-CHIP 300 | 5% 1/16W |
| R926 | 1-216-821-11 | RES-CHIP 1K | 5% 1/16W |
| RV911 | 1-223-272-11 | RES, ADJ, CERMET 470 | |
| ***** | | | |
| A-8056-675-A HP-A01 (C) MOUNTED PWB | | | |
| ***** | | | |
| C701 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V |
| C702 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V |
| C703 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V |
| C704 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V |
| C705 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V |
| CN701 | 1-691-534-11 | CONNECTOR, BOARD TO BOARD 20P | |
| CN702 | 1-573-356-21 | CONNECTOR, FFC/FPC 16P | |
| CN703 | 1-573-356-21 | CONNECTOR, FFC/FPC 16P | |
| CN704 | 1-770-622-21 | PIN, CONNECTOR 5P | |
| CN705 | 1-573-915-11 | CONNECTOR, FFC/FPC (ZIF) 6P | |
| CN706 | 1-573-915-11 | CONNECTOR, FFC/FPC (ZIF) 6P | |
| D702 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | |
| D703 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | |
| D704 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | |
| D705 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | |
| Q701 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |
| Q702 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |
| Q703 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |
| Q704 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |
| Q705 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |
| Q706 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |
| Q707 | 8-729-402-38 | TRANSISTOR 2SD1819A-R-TX | |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|--------------------------------------|--------------|------------------------|------------------|----------|--------------|-------------------------------|--------|
| Q708 | 8-729-402-38 | TRANSISTOR | 2SD1819A-R-TX | | | | |
| Q709 | 8-729-402-38 | TRANSISTOR | 2SD1819A-R-TX | C821 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | |
| Q710 | 8-729-402-38 | TRANSISTOR | 2SD1819A-R-TX | C822 | 1-110-501-11 | CERAMIC CHIP 0.33uF 10% 16V | |
| R701 | 1-216-864-11 | SHORT | 0 | C823 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | |
| R702 | 1-216-864-11 | SHORT | 0 | C825 | 1-164-346-11 | CERAMIC CHIP 1uF 16V | |
| R703 | 1-216-864-11 | SHORT | 0 | C826 | 1-164-346-11 | CERAMIC CHIP 1uF 16V | |
| R704 | 1-216-864-11 | SHORT | 0 | C827 | 1-164-346-11 | CERAMIC CHIP 1uF 16V | |
| R705 | 1-216-864-11 | SHORT | 0 | C828 | 1-162-968-11 | CERAMIC CHIP 0.0047uF 10% 50V | |
| R707 | 1-216-832-11 | RES-CHIP | 8.2K 5% 1/16W | C829 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V | |
| R708 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W | C830 | 1-165-319-11 | CERAMIC CHIP 0.1uF 50V | |
| R709 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W | C831 | 1-164-346-11 | CERAMIC CHIP 1uF 16V | |
| R710 | 1-216-832-11 | RES-CHIP | 8.2K 5% 1/16W | C832 | 1-164-346-11 | CERAMIC CHIP 1uF 16V | |
| R712 | 1-216-823-11 | RES-CHIP | 1.5K 5% 1/16W | C833 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V | |
| R713 | 1-216-830-11 | RES-CHIP | 5.6K 5% 1/16W | C834 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V | |
| R714 | 1-216-825-11 | RES-CHIP | 2.2K 5% 1/16W | C835 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V | |
| R715 | 1-216-805-11 | RES-CHIP | 47 5% 1/16W | C836 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V | |
| R716 | 1-216-805-11 | RES-CHIP | 47 5% 1/16W | C902 | 1-107-826-91 | CERAMIC CHIP 0.1uF 10% 16V | |
| R717 | 1-216-805-11 | RES-CHIP | 47 5% 1/16W | C903 | 1-107-826-91 | CERAMIC CHIP 0.1uF 10% 16V | |
| R718 | 1-216-832-11 | RES-CHIP | 8.2K 5% 1/16W | * CN801 | 1-793-152-21 | CONNECTOR 11P | |
| R719 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W | * CN802 | 1-691-514-11 | CONNECTOR, BOARD TO BOARD 20P | |
| R720 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W | * CN803 | 1-573-984-11 | CONNECTOR, BOARD TO BOARD 10P | |
| R721 | 1-216-832-11 | RES-CHIP | 8.2K 5% 1/16W | * CN901 | 1-573-984-11 | CONNECTOR, BOARD TO BOARD 10P | |
| R722 | 1-216-823-11 | RES-CHIP | 1.5K 5% 1/16W | D801 | 8-719-066-17 | DIODE FTZ6.8E-T148 | |
| R723 | 1-216-830-11 | RES-CHIP | 5.6K 5% 1/16W | IC801 | 8-752-086-00 | IC CXA3017R-T6 | |
| R724 | 1-216-825-11 | RES-CHIP | 2.2K 5% 1/16W | IC804 | 8-759-430-57 | IC M62367GP-75ED | |
| R725 | 1-216-805-11 | RES-CHIP | 47 5% 1/16W | L801 | 1-414-754-11 | INDUCTOR 10uH | |
| R726 | 1-216-805-11 | RES-CHIP | 47 5% 1/16W | L802 | 1-414-754-11 | INDUCTOR 10uH | |
| R727 | 1-216-805-11 | RES-CHIP | 47 5% 1/16W | L803 | 1-414-754-11 | INDUCTOR 10uH | |
| R729 | 1-216-864-11 | SHORT | 0 | L804 | 1-414-754-11 | INDUCTOR 10uH | |
| R730 | 1-216-864-11 | SHORT | 0 | Q811 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| R731 | 1-216-864-11 | SHORT | 0 | Q812 | 8-729-420-29 | TRANSISTOR 2SD1819A-QRS-TX | |
| R732 | 1-216-864-11 | SHORT | 0 | Q813 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| TH701 | 1-810-812-21 | THERMISTOR, NTC (1608) | | Q814 | 8-729-420-29 | TRANSISTOR 2SD1819A-QRS-TX | |
| TH702 | 1-810-812-21 | THERMISTOR, NTC (1608) | | Q830 | 8-729-403-27 | TRANSISTOR XN4401-(TW) | |
| ***** | | | | Q831 | 8-729-403-27 | TRANSISTOR XN4401-(TW) | |
| A-8056-676-A RG-A01 (C) COMPLETE PWB | | | | Q901 | 8-729-420-24 | TRANSISTOR 2SB1218A-QRS-TX | |
| ***** | | | | R801 | 1-216-864-11 | SHORT 0 | |
| C801 | 1-107-686-11 | TANTALUM CHIP | 4.7uF 20% 16V | R802 | 1-216-864-11 | SHORT 0 | |
| C802 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V | R803 | 1-216-864-11 | SHORT 0 | |
| C803 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | R804 | 1-216-864-11 | SHORT 0 | |
| C804 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V | R805 | 1-216-864-11 | SHORT 0 | |
| C805 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | R806 | 1-216-864-11 | SHORT 0 | |
| C806 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V | R807 | 1-216-864-11 | SHORT 0 | |
| C807 | 1-135-150-91 | TANTALUM CHIP | 3.3uF 20% 6.3V | R808 | 1-216-864-11 | SHORT 0 | |
| C808 | 1-162-969-11 | CERAMIC CHIP | 0.0068uF 10% 25V | R810 | 1-216-864-11 | SHORT 0 | |
| C809 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V | R811 | 1-216-833-91 | RES-CHIP 10K 5% 1/16W | |
| C810 | 1-107-823-11 | CERAMIC CHIP | 0.47uF 10% 16V | R812 | 1-216-816-11 | RES-CHIP 390 5% 1/16W | |
| C811 | 1-107-823-11 | CERAMIC CHIP | 0.47uF 10% 16V | R813 | 1-216-864-11 | SHORT 0 | |
| C812 | 1-107-823-11 | CERAMIC CHIP | 0.47uF 10% 16V | R814 | 1-216-864-11 | SHORT 0 | |
| C813 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V | R815 | 1-216-864-11 | SHORT 0 | |
| C814 | 1-164-237-11 | CERAMIC CHIP | 16PF 5% 50V | R816 | 1-216-864-11 | SHORT 0 | |
| C815 | 1-115-467-11 | CERAMIC CHIP | 0.22uF 10% 10V | R817 | 1-216-864-11 | SHORT 0 | |
| C816 | 1-164-677-11 | CERAMIC CHIP | 0.033uF 10% 16V | R818 | 1-216-864-11 | SHORT 0 | |
| C817 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V | R819 | 1-216-864-11 | SHORT 0 | |
| C818 | 1-135-259-11 | TANTALUM CHIP | 10uF 20% 6.3V | R820 | 1-216-864-11 | SHORT 0 | |
| C819 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | R822 | 1-216-864-11 | SHORT 0 | |
| C820 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V | | | | |

| Ref. No. | Part No. | Description | Remark |
|--------------------------------------|--------------|-----------------------------------|----------------|
| R823 | 1-216-864-11 | SHORT | 0 |
| R824 | 1-216-864-11 | SHORT | 0 |
| R825 | 1-216-833-91 | RES-CHIP | 10K 5% 1/16W |
| R826 | 1-216-834-11 | RES-CHIP | 12K 5% 1/16W |
| R827 | 1-216-836-11 | RES-CHIP | 18K 5% 1/16W |
| R828 | 1-216-834-11 | RES-CHIP | 12K 5% 1/16W |
| R829 | 1-216-836-11 | RES-CHIP | 18K 5% 1/16W |
| R830 | 1-216-812-11 | RES-CHIP | 180 5% 1/16W |
| R831 | 1-216-812-11 | RES-CHIP | 180 5% 1/16W |
| R832 | 1-216-833-91 | RES-CHIP | 10K 5% 1/16W |
| R833 | 1-216-827-11 | RES-CHIP | 3.3K 5% 1/16W |
| R834 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W |
| R835 | 1-216-812-11 | RES-CHIP | 180 5% 1/16W |
| R836 | 1-216-823-11 | RES-CHIP | 1.5K 5% 1/16W |
| R837 | 1-216-833-91 | RES-CHIP | 10K 5% 1/16W |
| R838 | 1-216-833-91 | RES-CHIP | 10K 5% 1/16W |
| R839 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W |
| R840 | 1-216-864-11 | SHORT | 0 |
| R841 | 1-216-864-11 | SHORT | 0 |
| R842 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W |
| R843 | 1-216-864-11 | SHORT | 0 |
| R844 | 1-216-864-11 | SHORT | 0 |
| R845 | 1-216-864-11 | SHORT | 0 |
| R846 | 1-216-864-11 | SHORT | 0 |
| R847 | 1-216-864-11 | SHORT | 0 |
| R848 | 1-216-864-11 | SHORT | 0 |
| R849 | 1-216-864-11 | SHORT | 0 |
| R851 | 1-216-817-11 | RES-CHIP | 470 5% 1/16W |
| R855 | 1-216-819-11 | RES-CHIP | 680 5% 1/16W |
| R856 | 1-216-819-11 | RES-CHIP | 680 5% 1/16W |
| R857 | 1-216-821-11 | RES-CHIP | 1K 5% 1/16W |
| R861 | 1-216-819-11 | RES-CHIP | 680 5% 1/16W |
| R862 | 1-216-819-11 | RES-CHIP | 680 5% 1/16W |
| R863 | 1-216-823-11 | RES-CHIP | 1.5K 5% 1/16W |
| R864 | 1-216-837-11 | RES-CHIP | 22K 5% 1/16W |
| R865 | 1-216-864-11 | SHORT | 0 |
| R866 | 1-216-864-11 | SHORT | 0 |
| R873 | 1-216-864-11 | SHORT | 0 |
| R874 | 1-216-864-11 | SHORT | 0 |
| R876 | 1-216-864-11 | SHORT | 0 |
| R902 | 1-216-821-11 | RES-CHIP | 1K 5% 1/16W |
| R903 | 1-216-864-11 | SHORT | 0 |
| R906 | 1-216-864-11 | SHORT | 0 |
| R908 | 1-216-828-11 | RES-CHIP | 3.9K 5% 1/16W |
| X801 | 1-579-661-21 | OSCILLATOR, CRYSTAL (4.433619MHz) | |
| ***** | | | |
| A-8056-671-A YM-A01 (C) COMPLETE PWB | | | |
| ***** | | | |
| C201 | 1-124-779-21 | ELECT CHIP | 10uF 20% 16V |
| C202 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V |
| C203 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V |
| C204 | 1-115-156-11 | CERAMIC CHIP | 1uF 10V |
| C205 | 1-115-156-11 | CERAMIC CHIP | 1uF 10V |
| C207 | 1-126-198-21 | ELECT CHIP | 4.7uF 20% 35V |
| C208 | 1-126-198-21 | ELECT CHIP | 4.7uF 20% 35V |
| C209 | 1-164-489-11 | CERAMIC CHIP | 0.22uF 10% 16V |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------|------------------|
| C210 | 1-164-489-11 | CERAMIC CHIP | 0.22uF 10% 16V |
| C211 | 1-164-390-91 | CERAMIC CHIP | 330PF 5% 50V |
| C212 | 1-164-390-91 | CERAMIC CHIP | 330PF 5% 50V |
| C214 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C215 | 1-124-778-21 | ELECT CHIP | 22uF 20% 6.3V |
| C216 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C217 | 1-124-779-21 | ELECT CHIP | 10uF 20% 16V |
| C218 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C219 | 1-109-982-11 | CERAMIC CHIP | 1uF 10% 10V |
| C220 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C222 | 1-115-156-11 | CERAMIC CHIP | 1uF 10V |
| C223 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| C224 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C225 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C226 | 1-164-505-11 | CERAMIC CHIP | 2.2uF 16V |
| C227 | 1-164-222-11 | CERAMIC CHIP | 0.22uF 25V |
| C228 | 1-164-222-11 | CERAMIC CHIP | 0.22uF 25V |
| C229 | 1-126-210-21 | ELECT CHIP | 220uF 20% 4V |
| C232 | 1-124-779-21 | ELECT CHIP | 10uF 20% 16V |
| C301 | 1-124-778-21 | ELECT CHIP | 22uF 20% 6.3V |
| C302 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C303 | 1-124-778-21 | ELECT CHIP | 22uF 20% 6.3V |
| C304 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C305 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C306 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C307 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C308 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF 10% 50V |
| C309 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C310 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C311 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C312 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C313 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C314 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C315 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C316 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C317 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| C318 | 1-124-779-21 | ELECT CHIP | 10uF 20% 16V |
| C319 | 1-162-921-11 | CERAMIC CHIP | 33PF 5% 50V |
| C320 | 1-162-918-11 | CERAMIC CHIP | 18PF 5% 50V |
| C321 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C322 | 1-135-150-91 | TANTALUM CHIP | 3.3uF 20% 6.3V |
| C324 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C327 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C328 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C330 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C331 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C333 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C334 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C335 | 1-109-864-91 | CERAMIC CHIP | 68PF 2% 50V |
| C336 | 1-109-864-91 | CERAMIC CHIP | 68PF 2% 50V |
| C337 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C338 | 1-162-974-11 | CERAMIC CHIP | 0.01uF 50V |
| C339 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C340 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C341 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C342 | 1-162-919-11 | CERAMIC CHIP | 22PF 5% 50V |
| C344 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------|----------|----------|--------------|--|-----------------|
| C346 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V | FB403 | 1-216-864-11 | SHORT | 0 |
| C402 | 1-124-778-21 | ELECT CHIP 22uF | 20% 6.3V | FB404 | 1-216-864-11 | SHORT | 0 |
| C403 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | FB405 | 1-216-864-11 | SHORT | 0 |
| C404 | 1-124-778-21 | ELECT CHIP 22uF | 20% 6.3V | FB406 | 1-216-864-11 | SHORT | 0 |
| C405 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | FB407 | 1-216-295-91 | SHORT | 0 |
| C406 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | FB408 | 1-216-295-91 | SHORT | 0 |
| C407 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | FL401 | 1-234-185-21 | FILTER, ENCAPSULATED | |
| C408 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | IC201 | 8-759-482-30 | IC BA3574BFS-E2 | |
| C409 | 1-124-778-21 | ELECT CHIP 22uF | 20% 6.3V | IC301 | 8-759-653-13 | IC MB89082PFV-G-118-BND | |
| C410 | 1-124-778-21 | ELECT CHIP 22uF | 20% 6.3V | IC302 | 8-759-468-72 | IC AK6420AM-E2 | |
| C411 | 1-109-982-11 | CERAMIC CHIP 1uF | 10% 10V | IC303 | 8-759-512-70 | IC S-81350HG-KD-T1 | |
| C412 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V | IC304 | 8-759-519-46 | IC S-80730AN-DT-T1 | |
| C413 | 1-162-921-11 | CERAMIC CHIP 33PF | 5% 50V | IC401 | 8-759-446-66 | IC MM1113XFBE | |
| C414 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | IC402 | 8-759-446-66 | IC MM1113XFBE | |
| C415 | 1-135-259-11 | TANTALUM CHIP 10uF | 20% 6.3V | IC404 | 8-759-653-14 | IC MSM5258MS-KR1 | |
| C416 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | IC405 | 8-759-081-44 | IC TC74VHC04F (EL) | |
| C417 | 1-162-923-11 | CERAMIC CHIP 47PF | 5% 50V | IC407 | 8-759-256-43 | IC NJM2903M-TE2 | |
| C418 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | J401 | 1-779-870-11 | CONNECTOR (ROUND TYPE) 4P (S VIDEO IN) | |
| C419 | 1-162-967-11 | CERAMIC CHIP 0.0033uF | 10% 50V | J402 | 1-778-040-11 | JACK, SMALL TYPE (A/V IN) | |
| C422 | 1-124-778-21 | ELECT CHIP 22uF | 20% 6.3V | L302 | 1-216-295-91 | SHORT | 0 |
| C423 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V | L303 | 1-216-295-91 | SHORT | 0 |
| CN302 | 1-774-768-11 | CONNECTOR, FFC/FPC 17P | | L304 | 1-414-081-11 | INDUCTOR | 33uH |
| CN303 | 1-770-624-21 | PIN, CONNECTOR 7P | | L305 | 1-412-960-71 | INDUCTOR | 56uH |
| CN304 | 1-770-626-21 | PIN, CONNECTOR 9P | | L307 | 1-216-295-91 | SHORT | 0 |
| CN305 | 1-691-550-11 | PIN, CONNECTOR (1.5MM) (SMD) 3P | | L401 | 1-216-295-91 | SHORT | 0 |
| * CN306 | 1-573-984-11 | CONNECTOR, BOARD TO BOARD 10P | | PS301 | 1-576-123-21 | LINK, IC | |
| D307 | 8-719-941-09 | DIODE DAP202UT106 | | Q201 | 8-729-420-29 | TRANSISTOR | 2SD1819A-QRS-TX |
| D311 | 8-719-066-17 | DIODE FTZ6.8E-T148 | | Q202 | 8-729-420-29 | TRANSISTOR | 2SD1819A-QRS-TX |
| D316 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q203 | 8-729-420-29 | TRANSISTOR | 2SD1819A-QRS-TX |
| D401 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q301 | 8-729-402-84 | TRANSISTOR | XN4601-TW |
| D402 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q302 | 8-729-402-84 | TRANSISTOR | XN4601-TW |
| D403 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q303 | 8-729-420-29 | TRANSISTOR | 2SD1819A-QRS-TX |
| D404 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q304 | 8-729-420-12 | TRANSISTOR | XN4213-TW |
| D405 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q305 | 8-729-420-29 | TRANSISTOR | 2SD1819A-QRS-TX |
| D406 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q401 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 |
| D407 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q402 | 8-729-402-81 | TRANSISTOR | XN4501-TW |
| D408 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q408 | 8-729-420-29 | TRANSISTOR | 2SD1819A-QRS-TX |
| D409 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | Q413 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 |
| D410 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | R201 | 1-216-821-11 | RES-CHIP | 1K 5% 1/16W |
| D411 | 8-719-017-13 | DIODE 02DZ7.5-TPH3 | | R202 | 1-216-821-11 | RES-CHIP | 1K 5% 1/16W |
| FB301 | 1-216-864-11 | SHORT | 0 | R205 | 1-216-845-11 | RES-CHIP | 100K 5% 1/16W |
| FB302 | 1-216-864-11 | SHORT | 0 | R206 | 1-216-853-11 | RES-CHIP | 470K 5% 1/16W |
| FB303 | 1-216-295-91 | SHORT | 0 | R207 | 1-216-845-11 | RES-CHIP | 100K 5% 1/16W |
| FB304 | 1-216-295-91 | SHORT | 0 | R208 | 1-216-853-11 | RES-CHIP | 470K 5% 1/16W |
| FB305 | 1-216-864-11 | SHORT | 0 | R209 | 1-216-829-11 | RES-CHIP | 4.7K 5% 1/16W |
| FB306 | 1-216-295-91 | SHORT | 0 | R210 | 1-216-829-11 | RES-CHIP | 4.7K 5% 1/16W |
| FB307 | 1-216-864-11 | SHORT | 0 | R211 | 1-216-823-11 | RES-CHIP | 1.5K 5% 1/16W |
| FB308 | 1-216-864-11 | SHORT | 0 | R212 | 1-216-823-11 | RES-CHIP | 1.5K 5% 1/16W |
| FB309 | 1-216-864-11 | SHORT | 0 | R213 | 1-216-827-11 | RES-CHIP | 3.3K 5% 1/16W |
| FB310 | 1-216-864-11 | SHORT | 0 | R214 | 1-216-827-11 | RES-CHIP | 3.3K 5% 1/16W |
| FB311 | 1-216-864-11 | SHORT | 0 | R215 | 1-216-824-11 | RES-CHIP | 1.8K 5% 1/16W |
| FB312 | 1-216-295-91 | SHORT | 0 | R216 | 1-216-824-11 | RES-CHIP | 1.8K 5% 1/16W |
| FB313 | 1-216-295-91 | SHORT | 0 | R217 | 1-216-821-11 | RES-CHIP | 1K 5% 1/16W |
| FB314 | 1-216-295-91 | SHORT | 0 | R219 | 1-216-857-11 | RES-CHIP | 1M 5% 1/16W |
| FB315 | 1-216-295-91 | SHORT | 0 | | | | |
| FB401 | 1-216-864-11 | SHORT | 0 | | | | |
| FB402 | 1-216-864-11 | SHORT | 0 | | | | |

YM-A01

| Ref. No. | Part No. | Description | Quantity | Unit | Remark | Ref. No. | Part No. | Description | Quantity | Unit | Remark |
|----------|--------------|-------------|----------|------|--------|----------|--------------|--------------------------------|----------|------|--------|
| R220 | 1-216-864-11 | SHORT | 0 | | | R357 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W |
| R221 | 1-216-789-11 | RES-CHIP | 2.2 | 5% | 1/16W | R361 | 1-216-838-11 | RES-CHIP | 27K | 5% | 1/16W |
| R222 | 1-216-789-11 | RES-CHIP | 2.2 | 5% | 1/16W | R362 | 1-216-831-11 | RES-CHIP | 6.8K | 5% | 1/16W |
| R223 | 1-216-864-11 | SHORT | 0 | | | R363 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R224 | 1-216-864-11 | SHORT | 0 | | | R364 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R225 | 1-216-805-11 | RES-CHIP | 47 | 5% | 1/16W | R365 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R226 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R366 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W |
| R227 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | R367 | 1-216-295-91 | SHORT | 0 | | |
| R301 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R368 | 1-216-295-91 | SHORT | 0 | | |
| R302 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R371 | 1-216-834-11 | RES-CHIP | 12K | 5% | 1/16W |
| R303 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R372 | 1-216-834-11 | RES-CHIP | 12K | 5% | 1/16W |
| R304 | 1-216-827-11 | RES-CHIP | 3.3K | 5% | 1/16W | R373 | 1-216-819-11 | RES-CHIP | 680 | 5% | 1/16W |
| R305 | 1-216-815-11 | RES-CHIP | 330 | 5% | 1/16W | R374 | 1-216-809-11 | RES-CHIP | 100 | 5% | 1/16W |
| R306 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R375 | 1-216-295-91 | SHORT | 0 | | |
| R307 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R401 | 1-218-285-11 | RES-CHIP | 75 | 5% | 1/16W |
| R308 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R402 | 1-218-285-11 | RES-CHIP | 75 | 5% | 1/16W |
| R309 | 1-216-827-11 | RES-CHIP | 3.3K | 5% | 1/16W | R403 | 1-218-285-11 | RES-CHIP | 75 | 5% | 1/16W |
| R310 | 1-216-815-11 | RES-CHIP | 330 | 5% | 1/16W | R404 | 1-216-295-91 | SHORT | 0 | | |
| R311 | 1-218-285-11 | RES-CHIP | 75 | 5% | 1/16W | R405 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R312 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | R406 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R313 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | R407 | 1-216-829-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R315 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | R408 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R316 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | R410 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R318 | 1-216-841-11 | RES-CHIP | 47K | 5% | 1/16W | R412 | 1-216-829-11 | RES-CHIP | 4.7K | 5% | 1/16W |
| R319 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R413 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R320 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R414 | 1-216-857-11 | RES-CHIP | 1M | 5% | 1/16W |
| R321 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R415 | 1-216-827-11 | RES-CHIP | 3.3K | 5% | 1/16W |
| R322 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R416 | 1-216-827-11 | RES-CHIP | 3.3K | 5% | 1/16W |
| R323 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R417 | 1-216-809-11 | RES-CHIP | 100 | 5% | 1/16W |
| R324 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R419 | 1-216-857-11 | RES-CHIP | 1M | 5% | 1/16W |
| R325 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R420 | 1-216-841-11 | RES-CHIP | 47K | 5% | 1/16W |
| R326 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R421 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R327 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R422 | 1-216-839-11 | RES-CHIP | 33K | 5% | 1/16W |
| R328 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R423 | 1-216-839-11 | RES-CHIP | 33K | 5% | 1/16W |
| R329 | 1-216-851-11 | RES-CHIP | 330K | 5% | 1/16W | R424 | 1-216-836-11 | RES-CHIP | 18K | 5% | 1/16W |
| R330 | 1-216-853-11 | RES-CHIP | 470K | 5% | 1/16W | R425 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R331 | 1-216-849-11 | RES-CHIP | 220K | 5% | 1/16W | R426 | 1-216-837-11 | RES-CHIP | 22K | 5% | 1/16W |
| R332 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R427 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R334 | 1-216-817-11 | RES-CHIP | 470 | 5% | 1/16W | R431 | 1-216-843-11 | RES-CHIP | 68K | 5% | 1/16W |
| R335 | 1-216-864-11 | SHORT | 0 | | | R441 | 1-216-825-11 | RES-CHIP | 2.2K | 5% | 1/16W |
| R336 | 1-216-864-11 | SHORT | 0 | | | R442 | 1-216-864-11 | SHORT | 0 | | |
| R337 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | R446 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R338 | 1-216-829-11 | RES-CHIP | 4.7K | 5% | 1/16W | R447 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W |
| R339 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R459 | 1-216-864-11 | SHORT | 0 | | |
| R340 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R460 | 1-216-864-11 | SHORT | 0 | | |
| R342 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R461 | 1-216-864-11 | SHORT | 0 | | |
| R344 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R462 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R345 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | R463 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W |
| R346 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | R465 | 1-216-864-11 | SHORT | 0 | | |
| R347 | 1-216-845-11 | RES-CHIP | 100K | 5% | 1/16W | RV201 | 1-241-748-11 | RES, VAR, CARBON 10K/10K (VOL) | | | |
| R348 | 1-216-841-11 | RES-CHIP | 47K | 5% | 1/16W | RV301 | 1-227-156-11 | RES, VAR, CARBON 50K (BRIGHT) | | | |
| R349 | 1-216-841-11 | RES-CHIP | 47K | 5% | 1/16W | S201 | 1-572-922-11 | SWITCH, SLIDE (AVLS) | | | |
| R350 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | S301 | 1-572-922-11 | SWITCH, SLIDE (USER LOCK) | | | |
| R351 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | X301 | 1-767-300-21 | VIBRATOR, CRYSTAL (32.768kHz) | | | |
| R352 | 1-216-833-91 | RES-CHIP | 10K | 5% | 1/16W | X401 | 1-577-247-11 | VIBRATOR, CERAMIC (3.58MHz) | | | |
| R353 | 1-216-829-11 | RES-CHIP | 4.7K | 5% | 1/16W | | | | | | |
| R354 | 1-216-841-11 | RES-CHIP | 47K | 5% | 1/16W | | | | | | |
| R355 | 1-216-821-11 | RES-CHIP | 1K | 5% | 1/16W | | | | | | |

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| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Remark</u> |
|-----------------|-----------------|--------------------|---------------|
| XTL301 | 1-579-369-21 | VIBRATOR (10MHz) | |

ACCESSORIES & PACKING MATERIALS

| | | | |
|----|--------------|--|--|
| △ | 1-475-456-24 | ADAPTOR, AC (AC-PLM2) | |
| △* | 1-575-131-31 | CORD, POWER | |
| | 1-777-690-11 | CORD, CONNECTION | |
| | 1-782-711-11 | CABLE, AV MONITOR | |
| | 3-868-186-31 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN) | |
| | 3-868-186-41 | MANUAL, INSTRUCTION (DUTCH, SPANISH, ITALIAN) | |
| | 4-644-701-32 | PAD, NOSE | |
| | 4-646-244-01 | PAD | |

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

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