

SONY®

HD COLOR VIDEO CAMERA

BRC-H900

SERVICE MANUAL

1st Edition (Revised 1)

警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

警告

万一、異常が起きた際に、お客様が電源を切ることができるように、設置の際には、機器近くの固定配線内に専用遮断装置を設けるか、機器使用中に、容易に抜き差しできるコンセントに電源プラグを接続してください。

WARNING

When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power cord to a socket-outlet which must be provided near the unit and easily accessible, so that the user can turn off the power in case a fault should occur.

WARNUNG

Beim Einbau des Geräts ist daher im Festkabel ein leicht zugänglicher Unterbrecher einzufügen, oder das Netzkabel muß mit einer in der Nähe des Geräts befindlichen, leicht zugänglichen Wandsteckdose verbunden werden, damit sich bei einer Funktionsstörung die Stromversorgung zum Gerät jederzeit unterbrechen läßt.

注意

指定以外の電池に交換すると、破裂する危険があります。
必ず指定の電池に交換してください。
使用済みの電池は、国または地域の法令に従って
処理してください。

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
When you dispose of the battery, you must obey the law in the relative area or country.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Lorsque vous mettez la batterie au rebut, vous devez respecter la législation en vigueur dans le pays ou la région où vous vous trouvez.

VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien. Batterien nur durch den vom Hersteller empfohlenen oder einen gleichwertigen Typ ersetzen.
Wenn Sie die Batterie entsorgen, müssen Sie die Gesetze der jeweiligen Region und des jeweiligen Landes befolgen.

FÖRSIKTIGHET!

Fara för explosion vid felaktigt placerat batteri.
Byt endast mot samma eller likvärdig typ av batteri, enligt tillverkarens rekommendationer.
När du kasserar batteriet ska du följa rådande lagar för regionen eller landet.

PAS PÅ

Fare for eksplosion, hvis batteriet ikke udskiftes korrekt.
Udskift kun med et batteri af samme eller tilsvarende type, som er anbefalet af fabrikanten.
Når du bortskaffer batteriet, skal du følge lovgivningen i det pågældende område eller land.

HUOMIO

Räjähdysvaara, jos akku vaihdetaan virheellisesti. Vaihda vain samanlaiseen tai vastaavantyyppiseen, valmistajan suosittelemaan akkuun.
Noudata akun hävittämisesä oman maasi tai alueesi lakeja.

FORSIKTIG

Ekspløsjonsfare hvis feil type batteri settes i.
Bytt ut kun med samme type eller tilsvarende anbefalt av produsenten.
Kasser batteriet i henhold til gjeldende avfallsregler.

注意

如果更换的电池不正确，就会有爆炸的危险。
只更换同一类型或制造商推荐的电池型号。
处理电池时，必须遵守相关地区或国家的法律。

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Manual Structure

Purpose of this manual

This manual is the Service Manual of the HD Color Video Camera BRC-H900. This manual contains the service overview, replacement of main parts, adjustment, troubleshooting, circuit description, spare parts, block diagrams, schematic diagrams, and board layouts.

The servicing of camera block assembly is basically performed by the replacement of camera block assembly.

Therefore, the schematic diagram, board layout and electrical parts list of BI-202, BI-203, and BI-204 boards are not contained.

The electrical parts list of VC-16 board appears only for connectors and fuses.

Related manuals

In addition to this Service Manual the following manuals are provided.

- **Operating Instructions (Supplied with this unit)**

This manual describes the basic functions and use of this unit.

- **BRU-SF10 Service Manual (Available on Request)**

This manual describes the information of servicing BRU-SF10, BRBK-HSD2, BRBK-SA1, and BRBK-SF1.

- **BRC-300 Service Manual (Available on Request)**

This manual describes the information of servicing RM-BR300 used to this unit.

Trademarks

Trademarks and registered trademarks used in this manual are as follows.

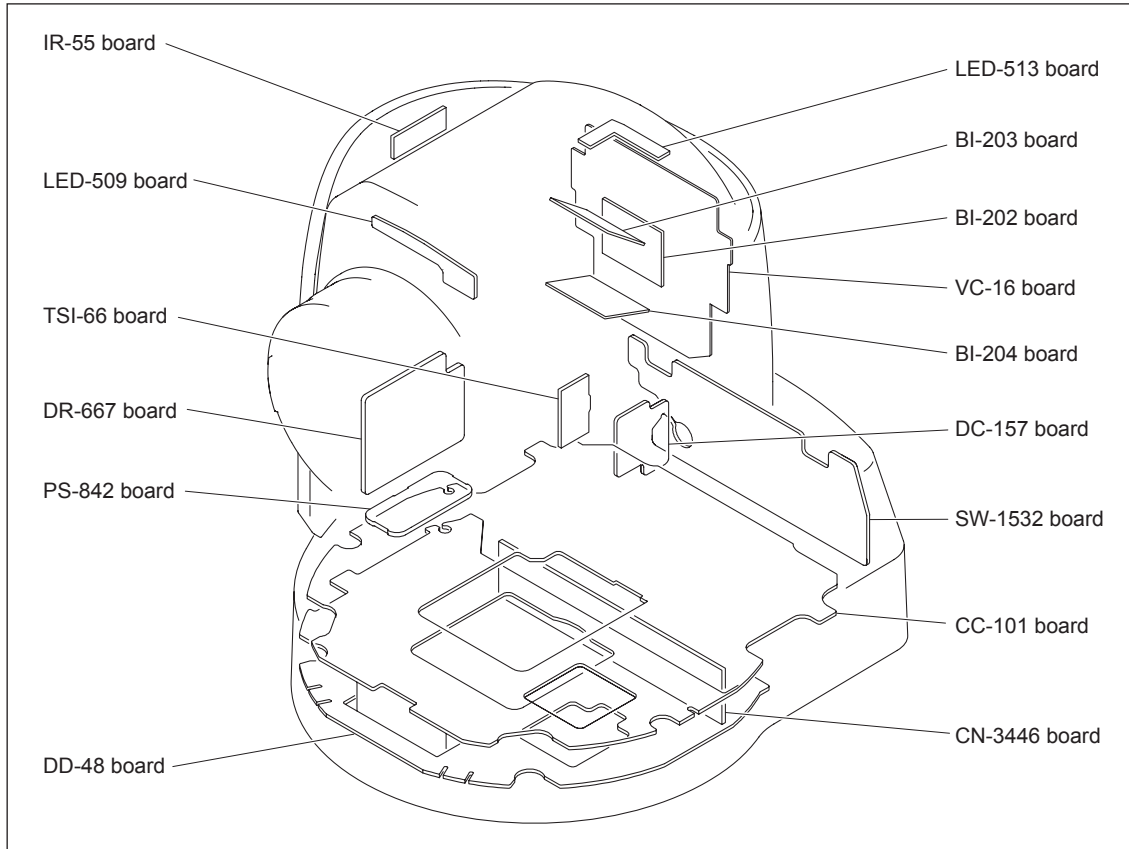
- Windows and Windows Vista are the registered trademarks of Microsoft Corporation in the United States and Other countries.
- HyperTerminal is a registered trademark of Microsoft Corporation and Hilgraeve Inc.
- VISCA is a trademark of Sony Corporation.
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Section 1

Service Overview

1-1. Board Location



1-2. Removing/Installing the Cabinet

Parts information

Two types of screw (PSW2.6 × 6) are used in this unit.

- Part number: 3-986-877-01
Part name: PSW2.6 × 6

- Part number: 7-621-759-40
Part name: PSW2.6 × 6

Note

In the illustration of this section, this screw is described as PSW2.6 × 6 (large).

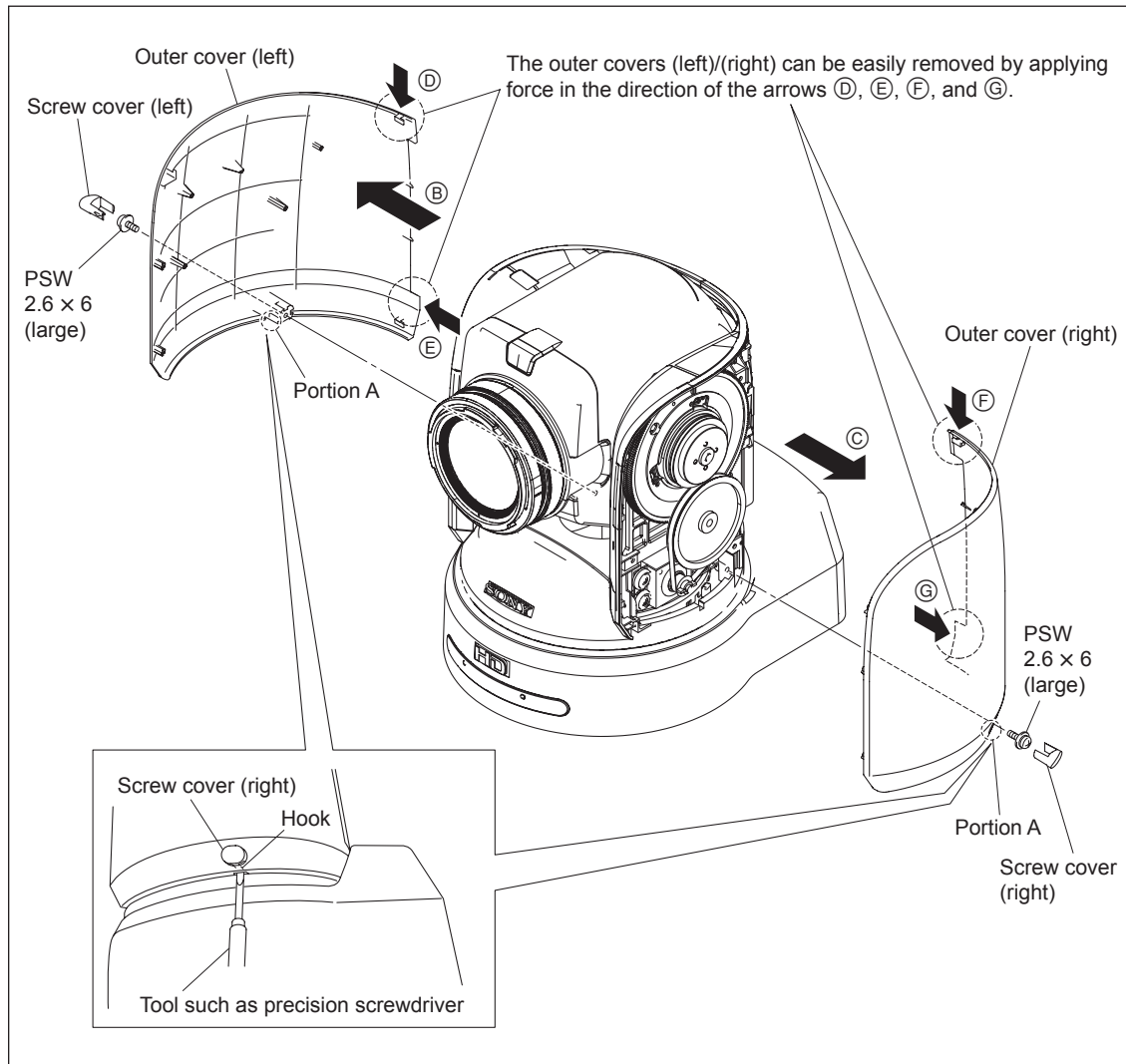
Tighten torque

Tighten the each screw with the torque below.

- BTP2.6 × 8: 0.4 N•m (4.1 kgf•cm)
- PSW2.6 × 6: 0.4 N•m (4.1 kgf•cm)
- PSW3 × 8: 0.6 N•m (6.1 kgf•cm)

1-2-1. Outer Cover (Right)/(Left)

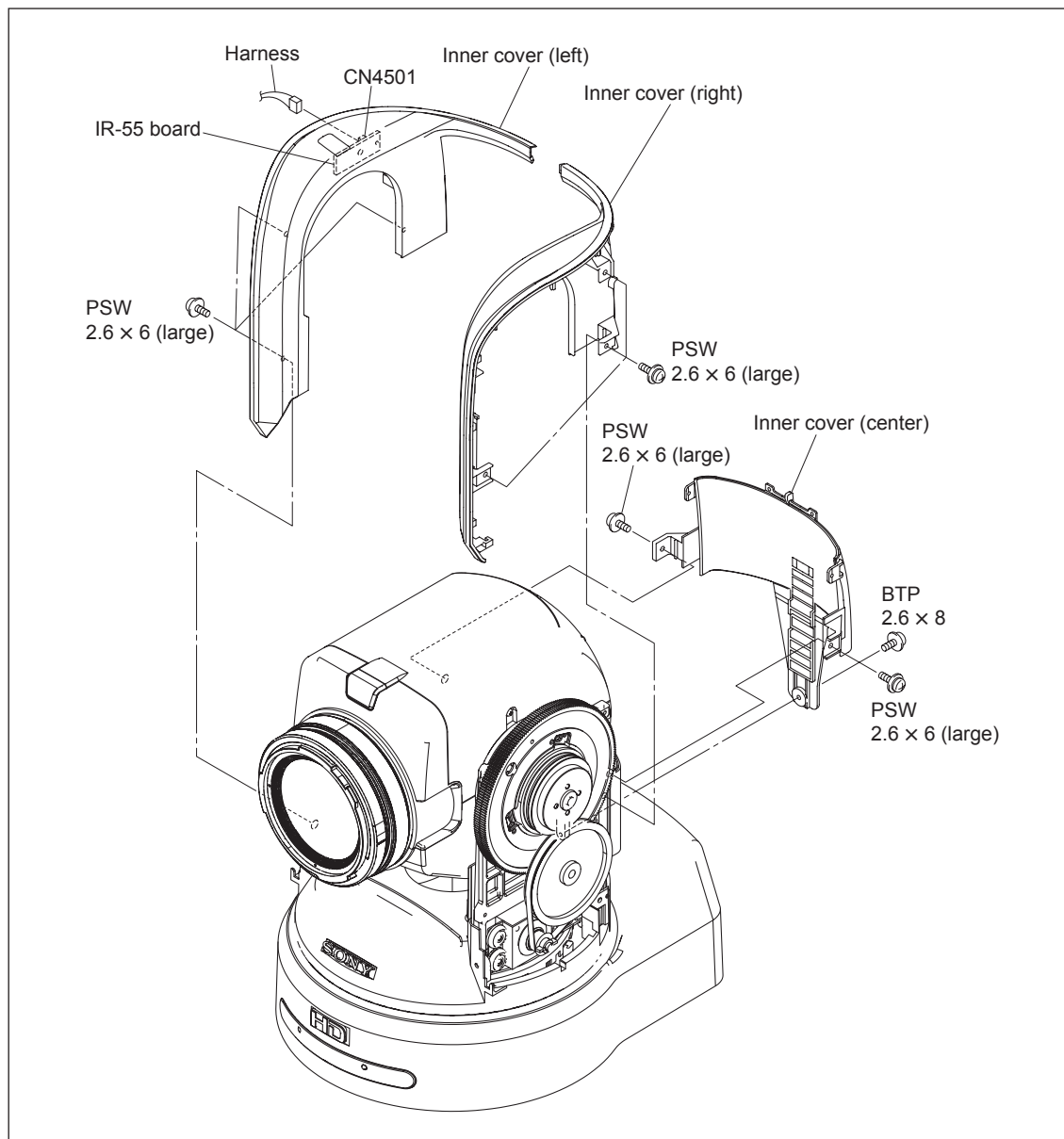
1. Push the hook by inserting a tool such as precision screwdriver into the portions A to remove the screw cover (right) and screw cover (left).
2. Remove the two screws.
3. Remove the outer cover (left) in the direction of the arrow ②.
4. Remove the outer cover (right) in the direction of the arrow ③.



5. To install, reverse the removal procedure.

1-2-2. Inner Cover (Center)/(Right)/(Left)

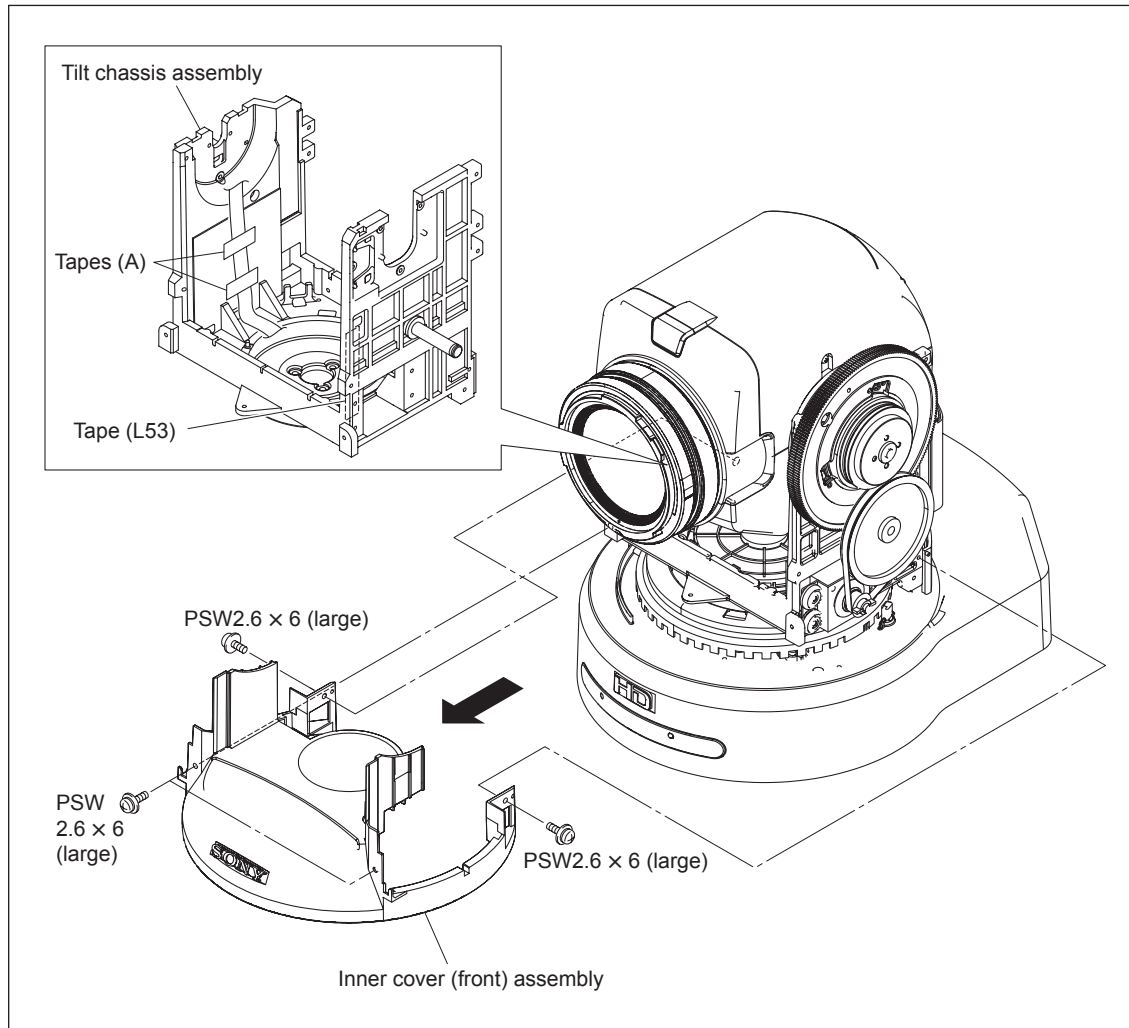
1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the two screws (PSW2.6 × 6) and the screw (BTP2.6 × 8), then remove the inner cover (center).
3. Remove the three screws, then remove the inner cover (right).
4. Disconnect the harness from the connector (CN4501) on the IR-55 board.
5. Remove the three screws, then remove the inner cover (left).



6. To install, reverse the removal procedure.

1-2-3. Inner Cover (Front) Assembly

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the four screws, then remove the inner cover (front) assembly in the direction of the arrow.



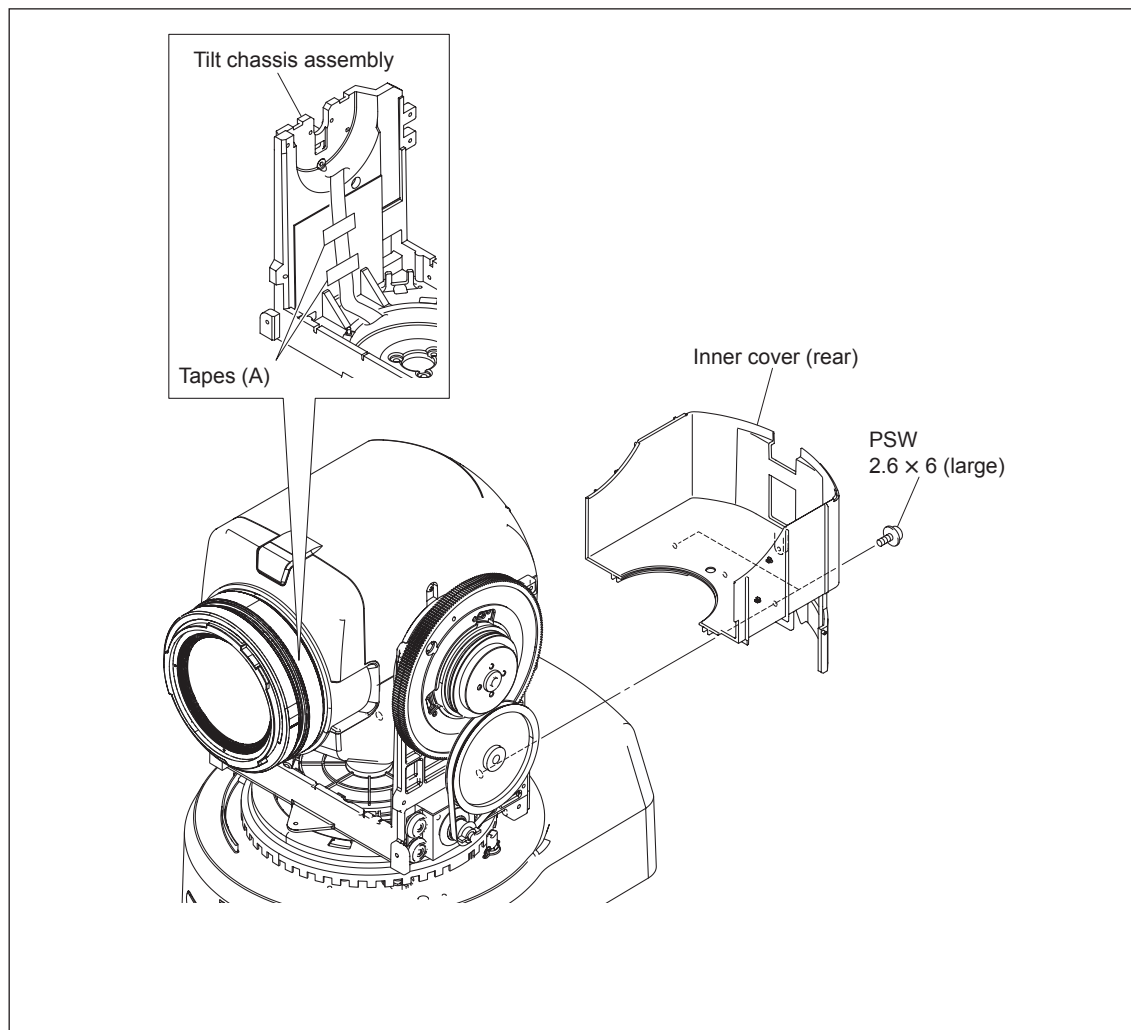
4. To install, reverse the removal procedure.

Note

When attaching the inner cover (front) assembly, be careful not to catch the two tapes (A) and tape (L53) inside the tilt chassis assembly.

1-2-4. Inner Cover (Rear)

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the two screws, then remove the inner cover (rear).



5. To install, reverse the removal procedure.

Note

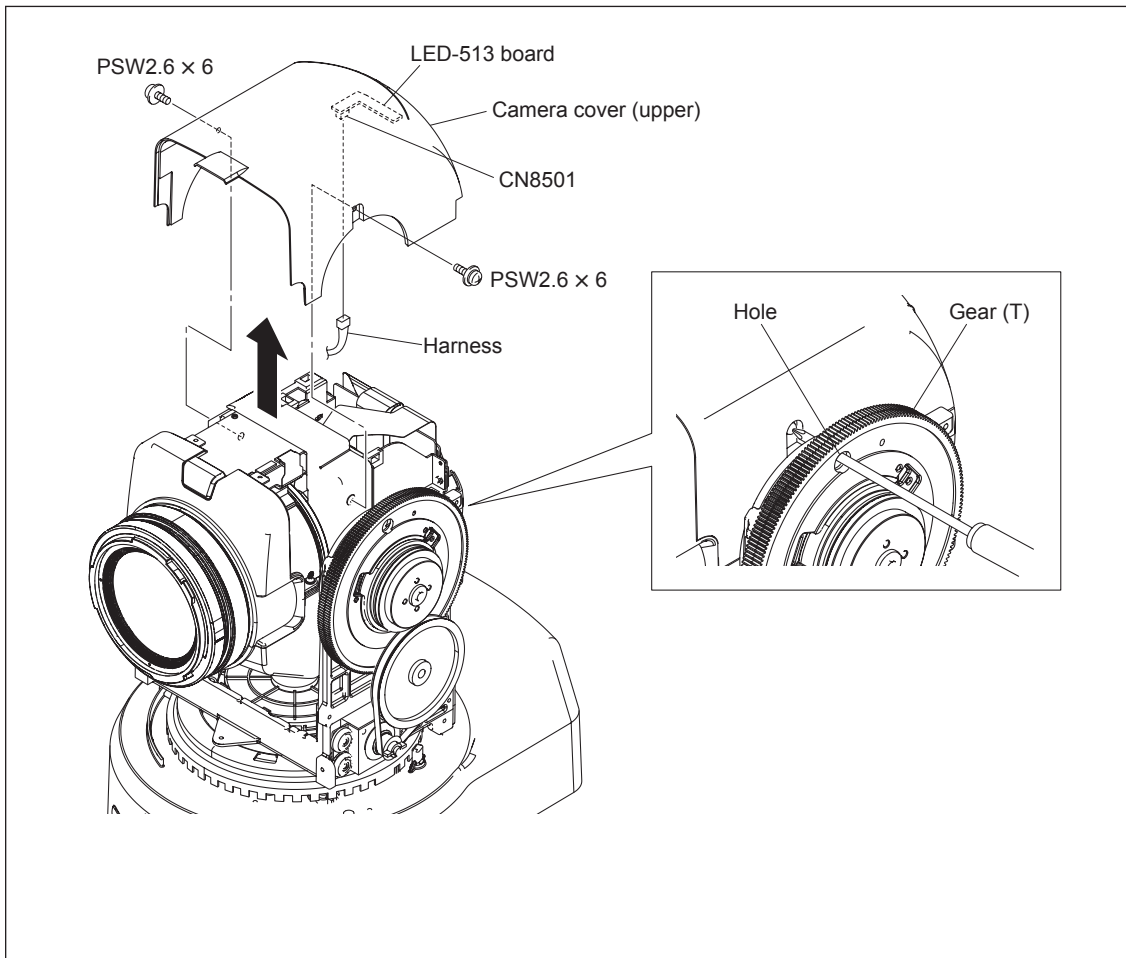
When attaching the inner cover (rear), be careful not to catch the two tapes (A) inside the tilt chassis assembly.

1-2-5. Camera Cover (Upper)

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the two screws, then lift the camera cover (upper) in the direction of the arrow.

Notes

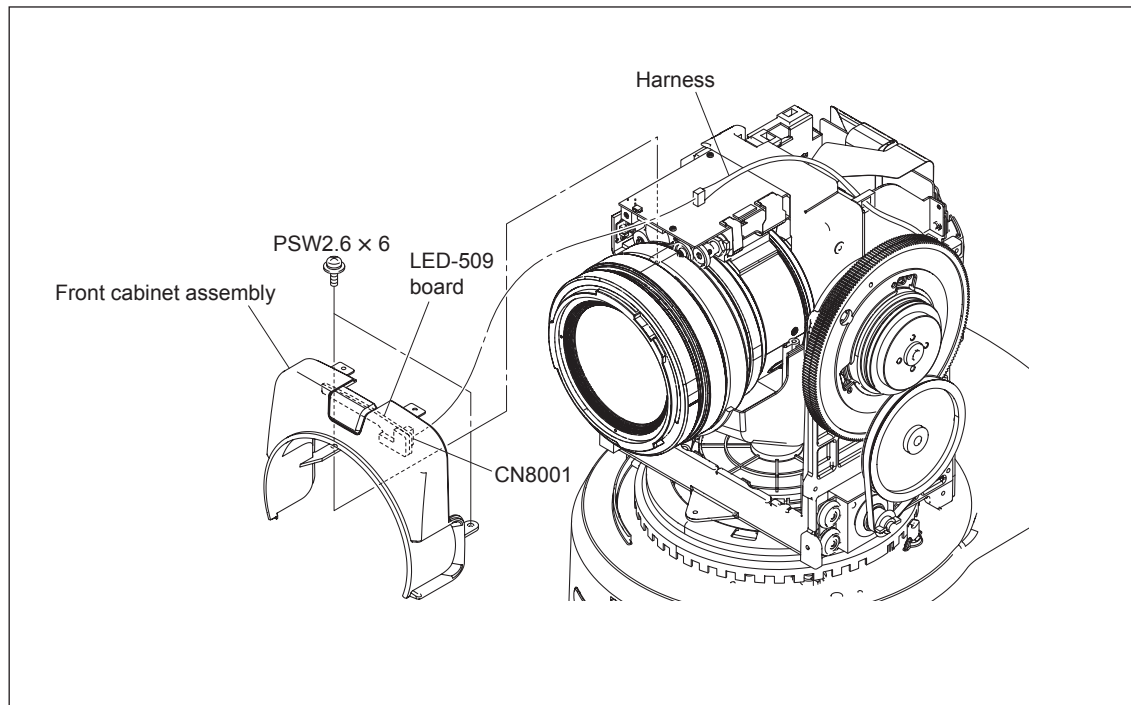
- When lifting up the camera cover (upper), be careful not to pull the harness connected to the LED-513 board.
 - Align the hole of the gear (T) with the screw position, then insert the screwdriver into the hole and remove the screw.
6. Disconnect the harness from the connector (CN8501) on the LED-513 board, then remove the camera cover (upper).



7. To install, reverse the removal procedure.

1-2-6. Front Cabinet Assembly

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Disconnect the harness from the connector (CN8001) on the LED-509 board.
7. Remove the two screws, then remove the front cabinet assembly.



8. To install, reverse the removal procedure.

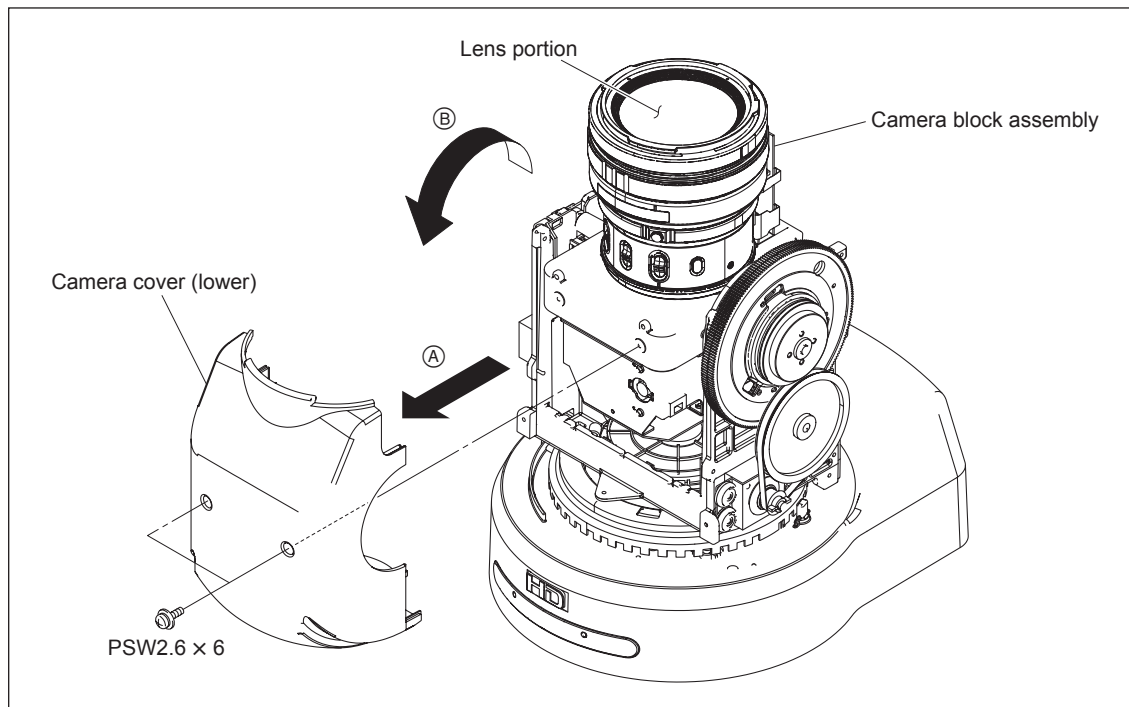
1-2-7. Camera Cover (Lower)

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the front cabinet assembly. (Refer to Section 1-2-6.)
7. Remove the two screws with the camera block assembly placed upward, then remove the camera cover (lower) in the direction of the arrow (A).

Note

When the camera cover (lower) is removed, camera block assembly may fall in the direction of the arrow (B).

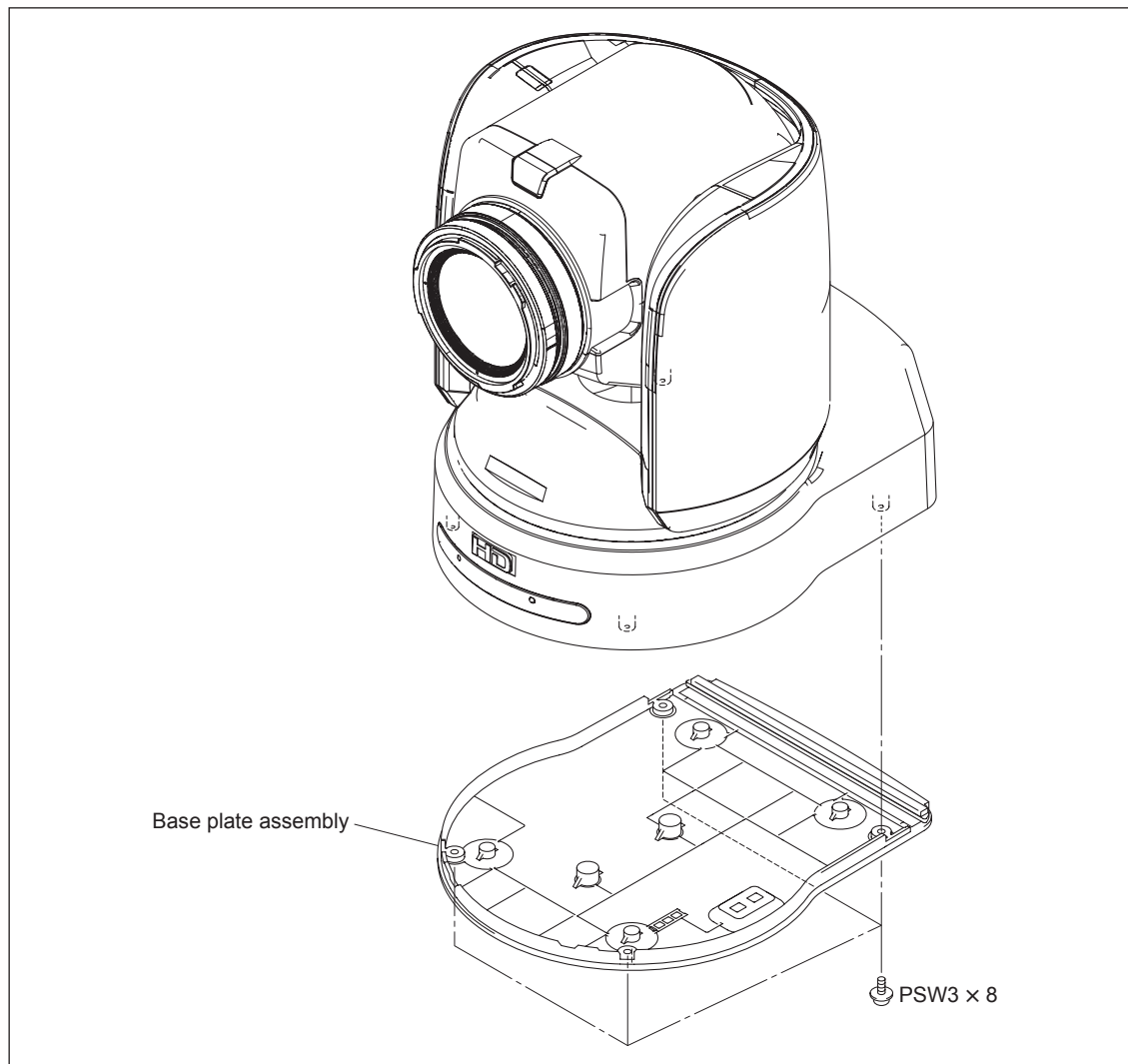
8. Tilt the camera block assembly slowly in the direction of the arrow (B).



9. To install, reverse the removal procedure.

1-2-8. Base Plate Assembly

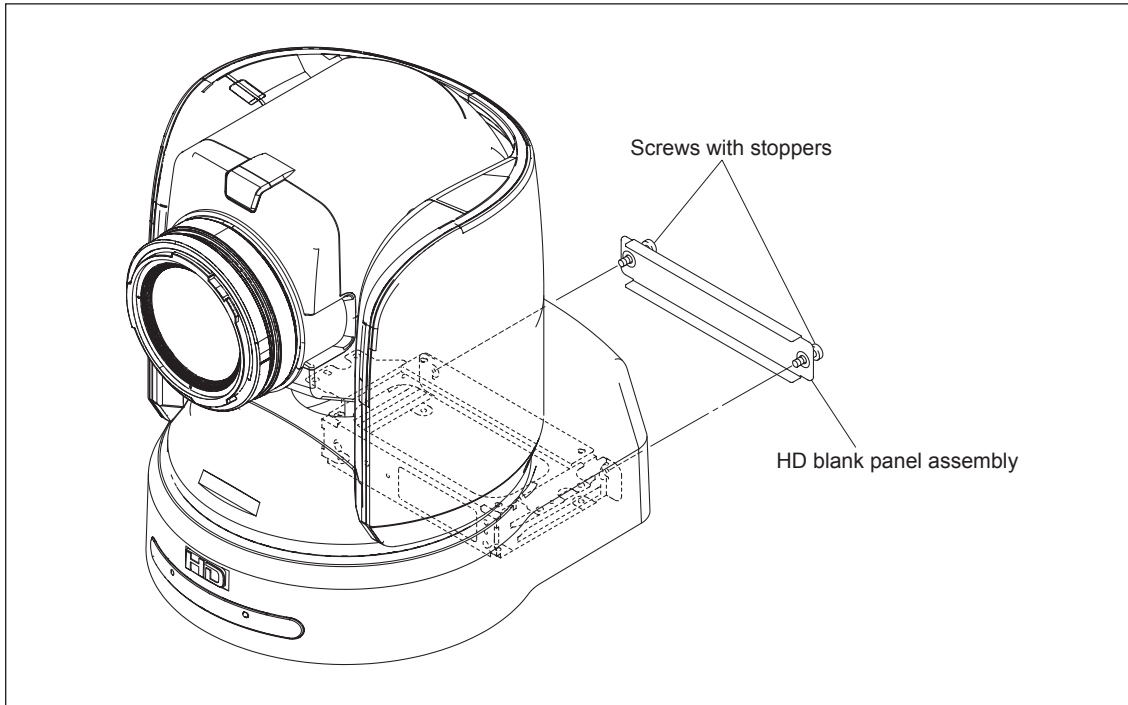
1. Remove the four screws, then remove the base plate assembly.



2. To install, reverse the removal procedure.

1-2-9. HD Blank Panel Assembly

1. Remove the two screws with stoppers, then remove the HD blank panel assembly.



2. To install, reverse the removal procedure.

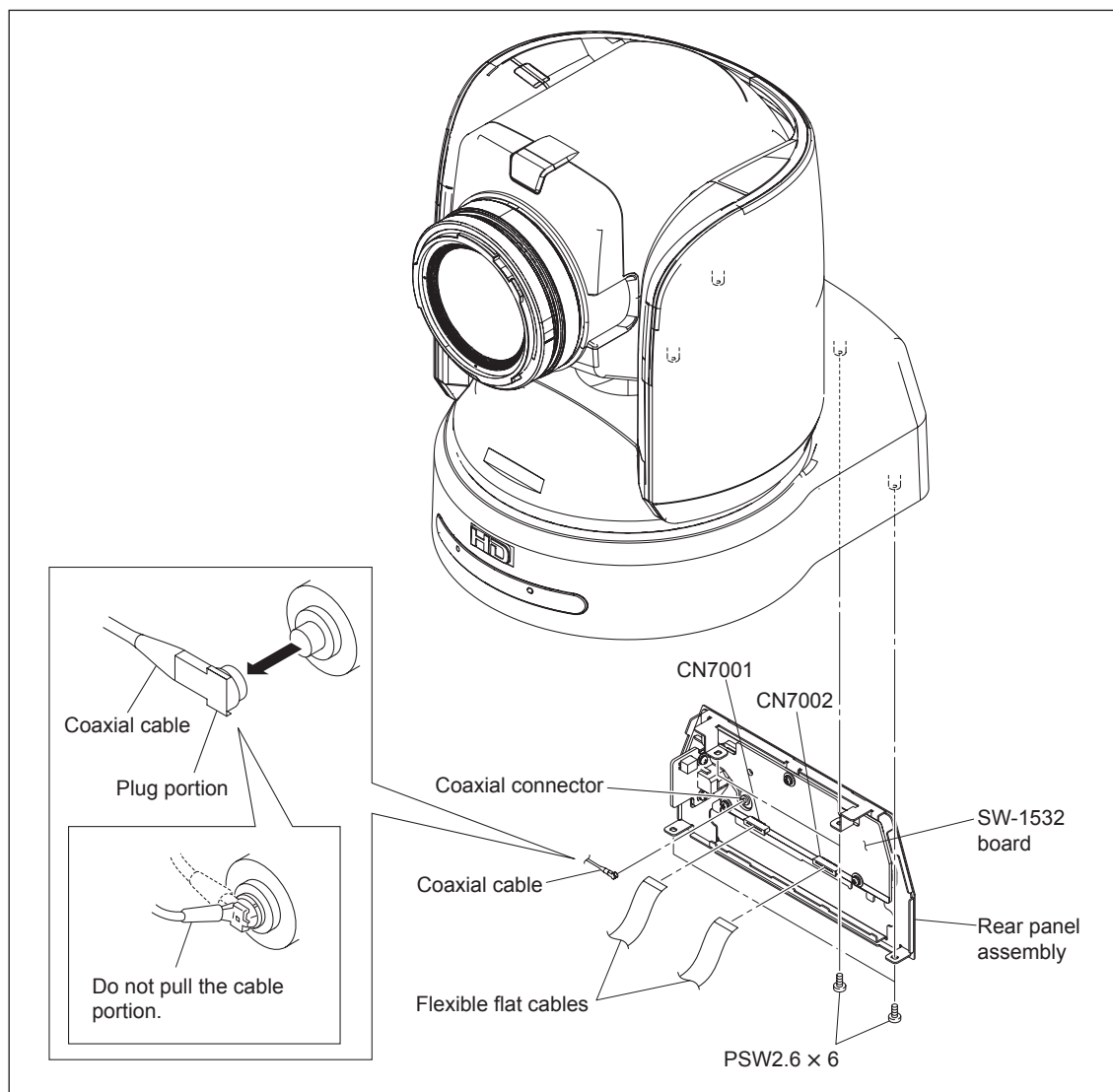
1-2-10. Rear Panel Assembly

1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the HD blank panel assembly. (Refer to Section 1-2-9.)
3. Remove the DD-48 board. (Refer to Section 2-2-1.)
4. Remove the EXP chassis assembly. (Refer to steps 4 and 5 in Section 2-2-2.)
5. Remove the CC-101 board. (Refer to Section 2-2-3.)
6. Disconnect the two flexible flat cables from the connectors (CN7001 and CN7002) on the SW-1532 board.
7. Disconnect the coaxial cable from the coaxial connector on the rear panel assembly in the direction of the arrow.

Note

When disconnecting the coaxial cable, handle the plug portion.

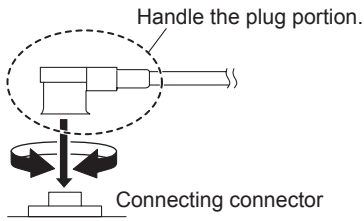
8. Remove the four screws, then remove the rear panel assembly.



9. To install, reverse the removal procedure.

Note

When connecting the coaxial cable, connect it straight to the connector by handling the plug portion, and push it into the connector by turning it clockwise and counterclockwise several times.



1-3. Lead-free Solder

Boards requiring use of lead-free solder are printed with a lead free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Notes

- Be sure to use the lead-free solder for the printed circuit board printed with the lead free mark.
- The lead-free solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering iron can be used but the iron tip has to be applied to the solder joint for a slightly longer time. The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful.

Section 2

Replacement of Main Parts

2-1. Replacing the Main Parts

Note

When this unit is turned upside down to removing/installing the parts in the cabinet base assembly, place this unit with holding the cabinet base assembly.

Do not place this unit with causing stress to the camera block assembly.

Tool/parts information

Tool

- Part name: Tool, KANIME (tilt)
Part number: J-6433-530-A

Parts information

Two types of screw (PSW2.6 × 6) are used in this unit.

- Part number: 3-986-877-01
Part name: PSW2.6 × 6

- Part number: 7-621-759-40
Part name: PSW2.6 × 6

Note

In the illustration of this section, this screw is described as PSW2.6 × 6 (large).

- Part name: Tape (A)
Part number: 3-080-272-01

Note

Replace the removed tape (A) with the new one.

- Part name: Tape (L40)
Part number: 3-290-546-01

Note

Replace the removed tape (L40) with the new one.

- Part name: Tape (L53)
Part number: 3-287-505-01

Note

Replace the removed tape (L53) with the new one.

Tighten torque

Tighten the each screw with the torque below.

- B2.6 × 14: 0.4 N•m (4.1 kgf•cm)
- BTP2 × 6: 0.18 N•m (1.84 kgf•cm)
- BTP2.6 × 8: 0.4 N•m (4.1 kgf•cm)
- PSW2.5 × 5: 0.4 N•m (4.1 kgf•cm)
- PSW2.6 × 6: 0.4 N•m (4.1 kgf•cm)
- PSW2.6 × 8: 0.4 N•m (4.1 kgf•cm)

2-1-1. Camera Block Assembly

Precaution for replacement

After replacing the camera block assembly, do not turn on the power before attaching the cover of the camera block assembly. The light shielding processing is not enough for the prism block of the camera block assembly. Because of this, if you turn on the power without attaching the cover of the camera block assembly after it is replaced, the light enters the prism portion. When the power is turned on, the subsequent defect of the imager is checked. If the power is turned on in the above state (light entering the prism without cover), it may cause an erroneous judgment. If it is required to turn on the power for checking the assembly (wiring) and so on after replacing the camera block assembly, perform the following before turning on the power.

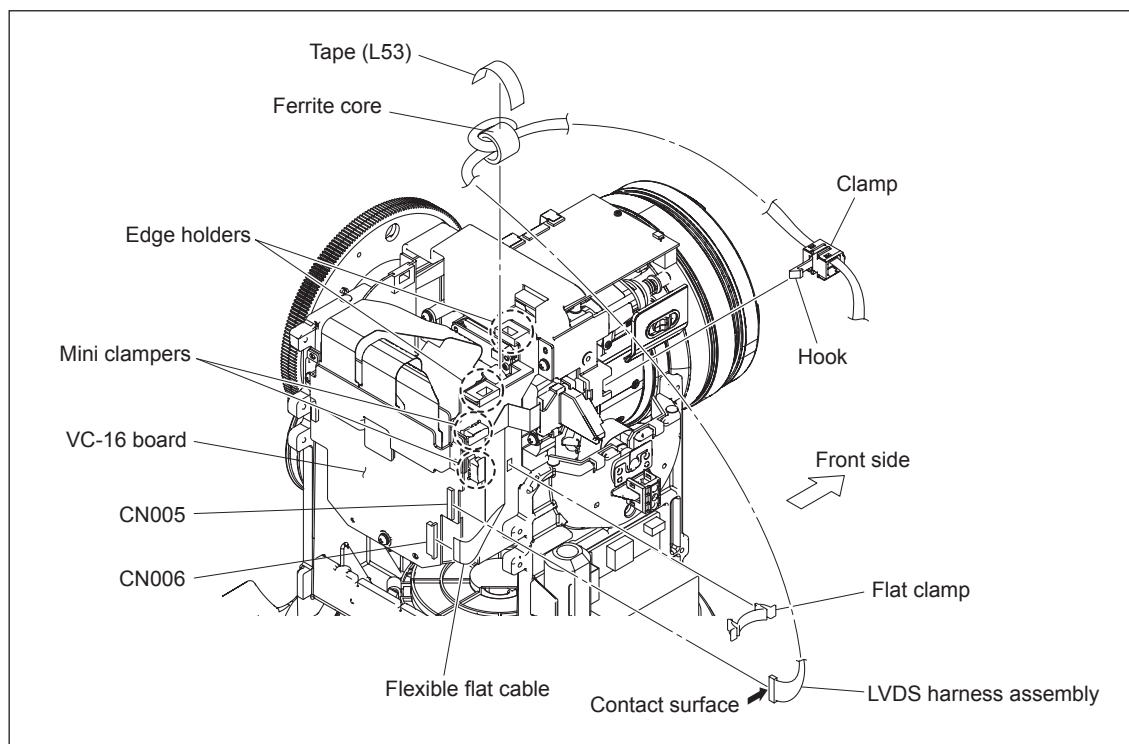
- Attach the cover to the camera block.
- Cover with the light shield without applying force on the fixing portion of the imager.

Note

When the camera block assembly is replaced, perform the adjustment. (Refer to Section 3-2.)

Removal

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the front cabinet assembly. (Refer to Section 1-2-6.)
7. Remove the camera cover (lower). (Refer to Section 1-2-7.)
8. Remove the LVDS harness assembly from two mini clampers.
9. Disconnect the LVDS harness assembly from the connector (CN005) on the VC-16 board.
10. Remove the flat clamp, then disconnect the flexible flat cable from the connector (CN006) on the VC-16 board.
11. Remove the tape (L53), then remove the ferrite core.
12. Remove the LVDS harness assembly from two edge holders.
13. Remove the hook while pushing the clamp in the inserting direction, then remove the clamp.



14. Loosen the three screws, then remove the timing belt.

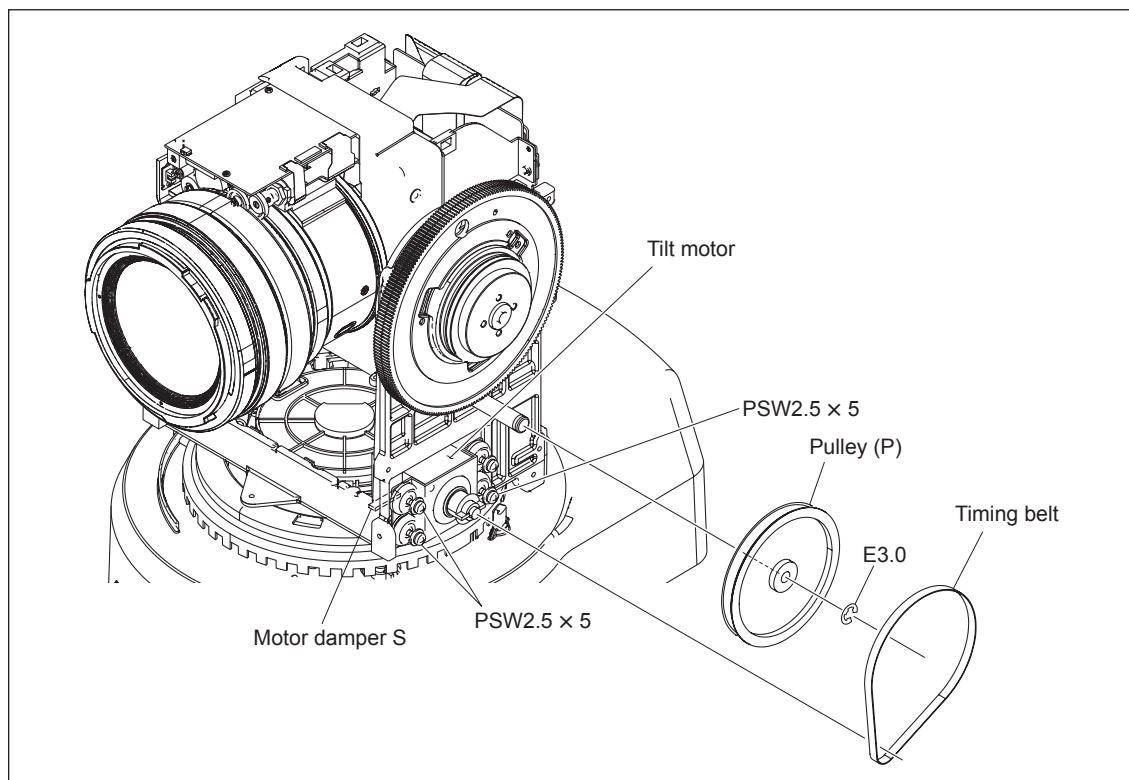
Note

When removing the timing belt, do not push up the tilt motor to avoid distortion of the motor damper S.
In case that the motor damper S is distorted, replace it with the new one.

- Part number: 3-287-574-01

- Part name: Motor damper S

15. Remove the E ring, then remove the pulley (P).



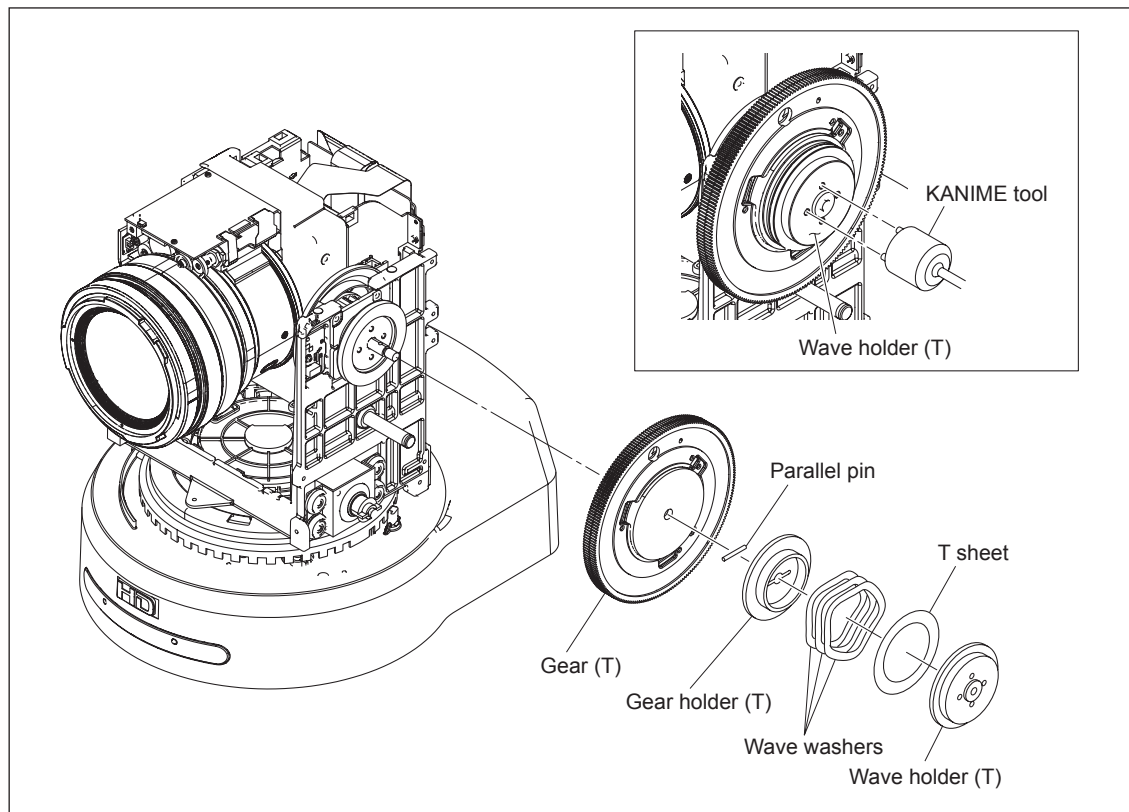
16. Remove the wave holder (T) using the KANIME tool.

Note

When attaching the wave holder (T), tighten the screw to the tightening torque as shown below.

Tightening torque: 2.5 N•m (25.5 kgf•cm)

17. Remove the T sheet, three wave washers, gear holder (T), parallel pin and gear (T).



18. Remove the holder screw (T) using the KANIME tool.

Note

When attaching the holder screw (T), tighten the screw to the tightening torque as shown below.

Tightening torque: 2.5 N•m (25.5 kgf•cm)

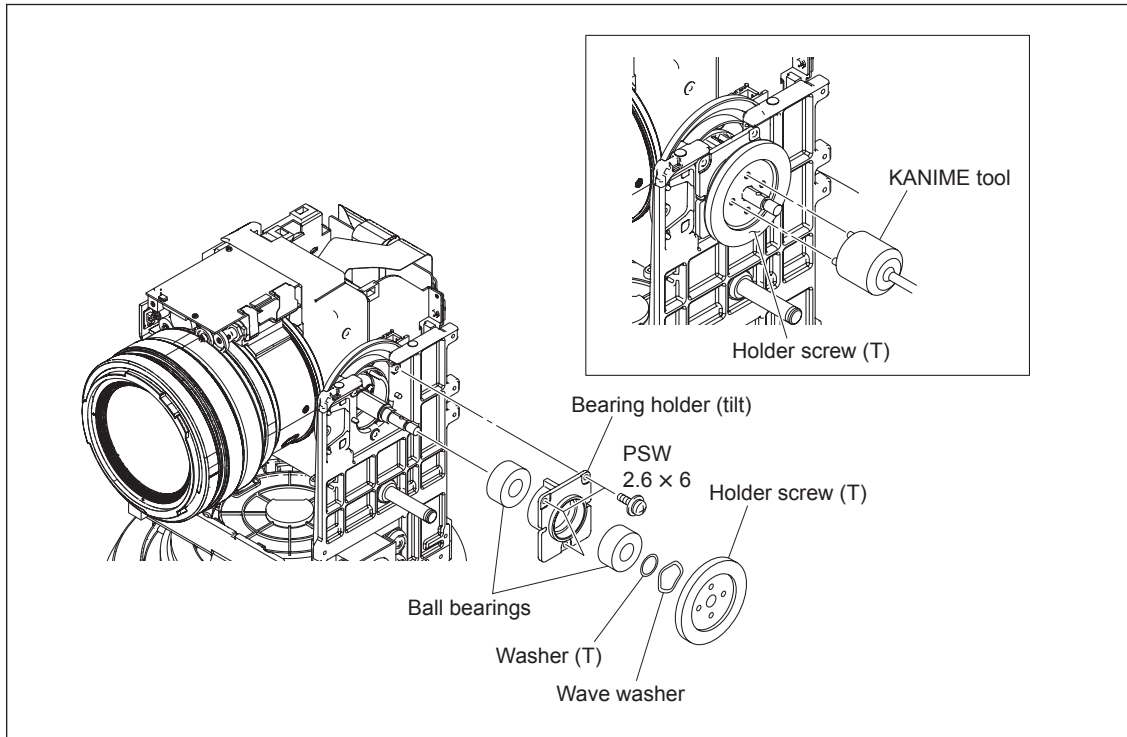
19. Remove the wave washer and washer (T).

Note

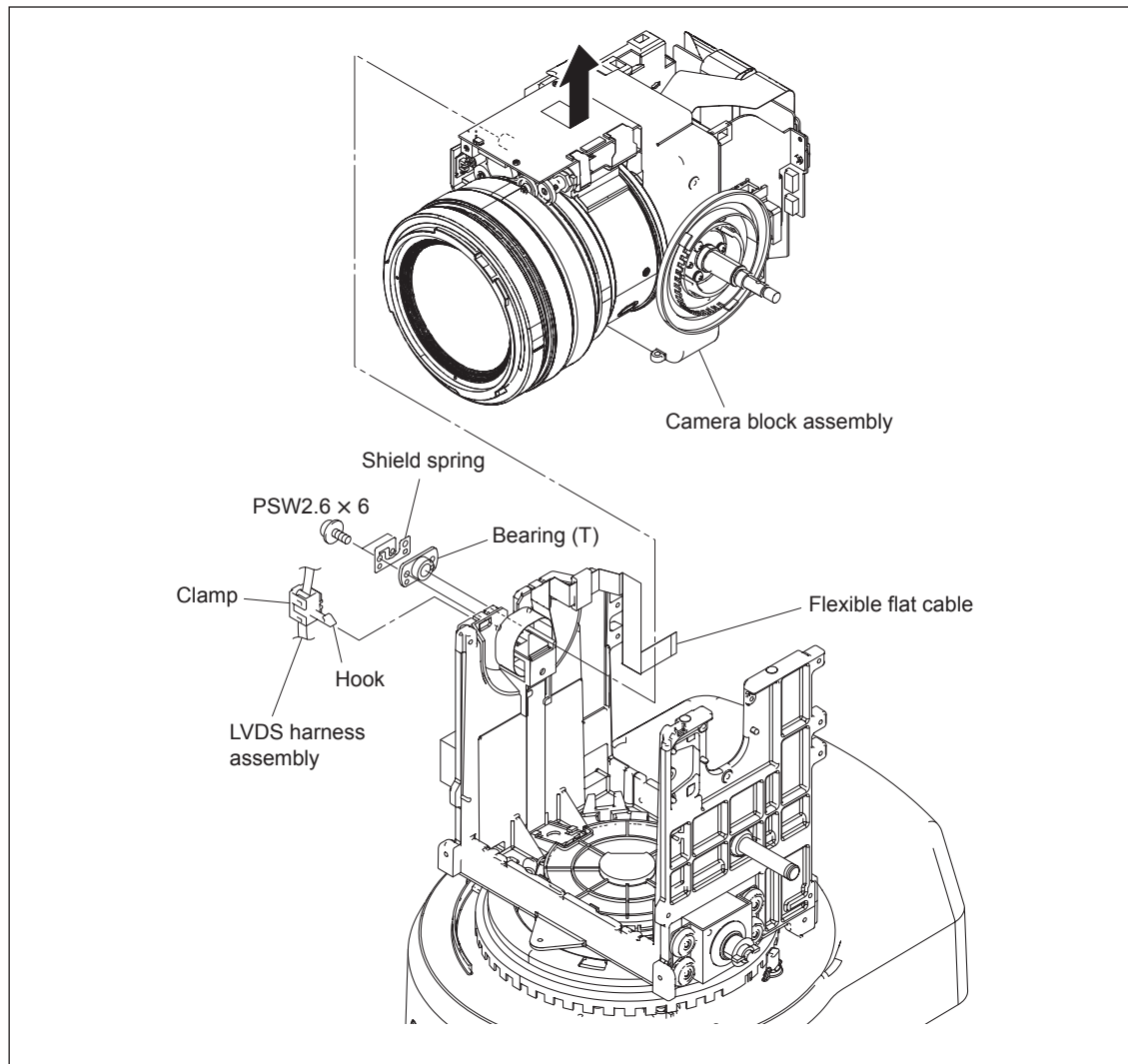
When attaching the washer (T) and wave washer, securely attach them between the ball bearing and the screw holder (T).

20. Remove the TSI-66 board. (Refer to steps 5 and 6 in Section 2-2-6.)

21. Remove the three screws, bearing holder (tilt) and two ball bearings.



22. Remove the hook while pushing the clamp in the inserting direction, then remove the clamp.
23. Remove the two screws, then remove the shield spring and bearing (T).
24. Remove the camera block assembly in the direction of the arrow while being careful of the flexible flat cable.

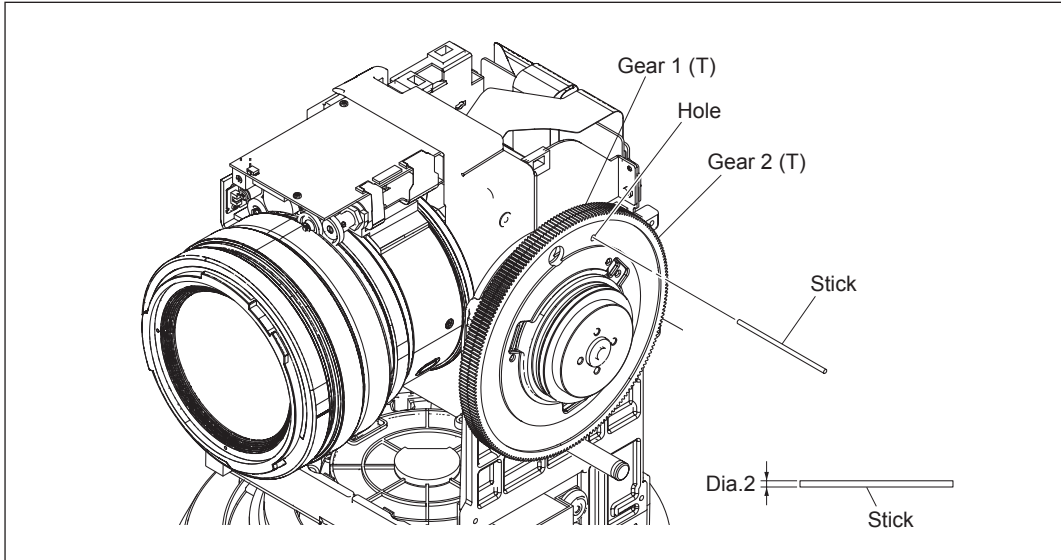


Installation

1. Perform the installation procedure in the reverse order of steps 18 to 24.
2. Install the gear (T), parallel pin, gear holder (T), three wave washers and T sheet.

Note

When attaching the pulley (P), insert the stick into the hole of the gear 1 (T) and gear 2 (T) and adjust the phase.

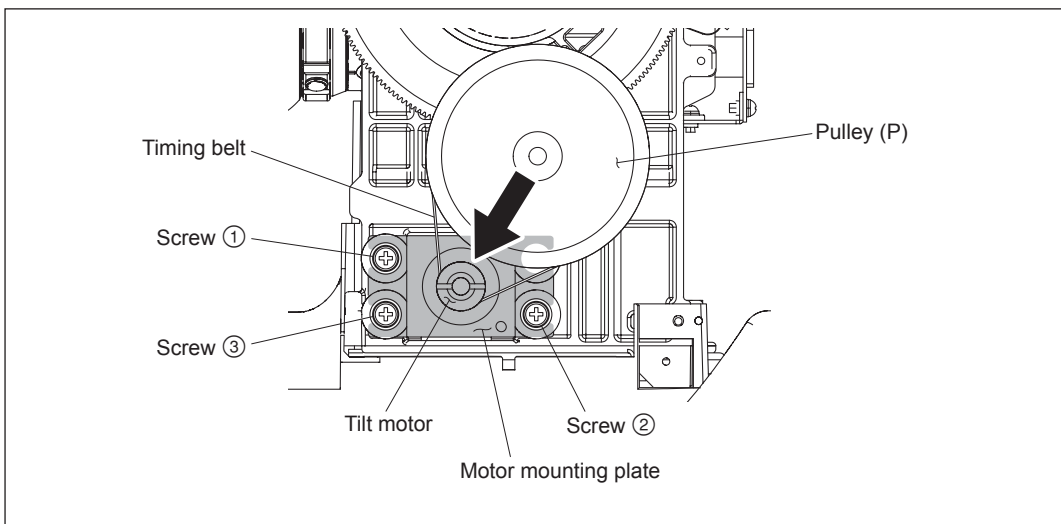


3. Perform the installation procedure in the reverse order of steps 15 and 16.
4. Loosen the three screws fixing the motor mounting plate.
5. Hook the timing belt on the pulley (P) and tilt motor.

Note

When attaching the timing belt, do not push up the tilt motor to avoid distortion of the motor damper S. In case that the motor damper S is distorted, replace it with the new one.

- Part number: 3-287-574-01
 - Part name: Motor damper S
6. Push the tilt motor in the direction of the arrow for removing the slack of the timing belt, then tighten the three screws in the order from ① to ③.



7. Perform the installation procedure in the reverse order of steps 12 and 13.
8. Attach the tape (L53) to the ferrite core referring to step 11 of the installation procedure.

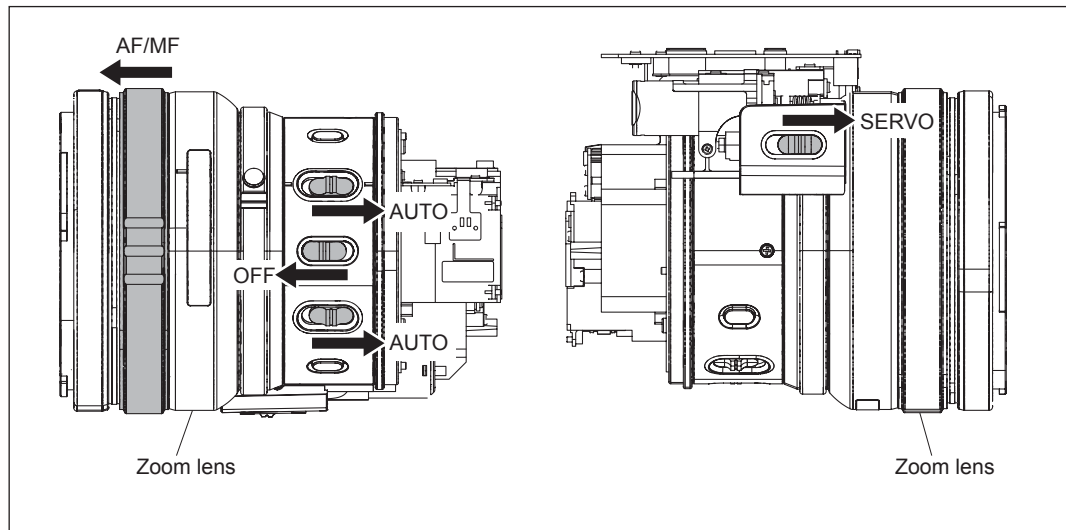
Note

Replace the removed tape (L53) with the new one.

9. Perform the installation procedure in the reverse order of steps 8 to 10.

Notes

- When connecting the LVDS harness assembly, be careful for the direction of the connector.
- Check that the switches of the zoom lens are set as shown in the illustration. If the setting is not correct, this unit does not normally operate.



10. Assemble this unit in the reverse order of steps 1 to 7.

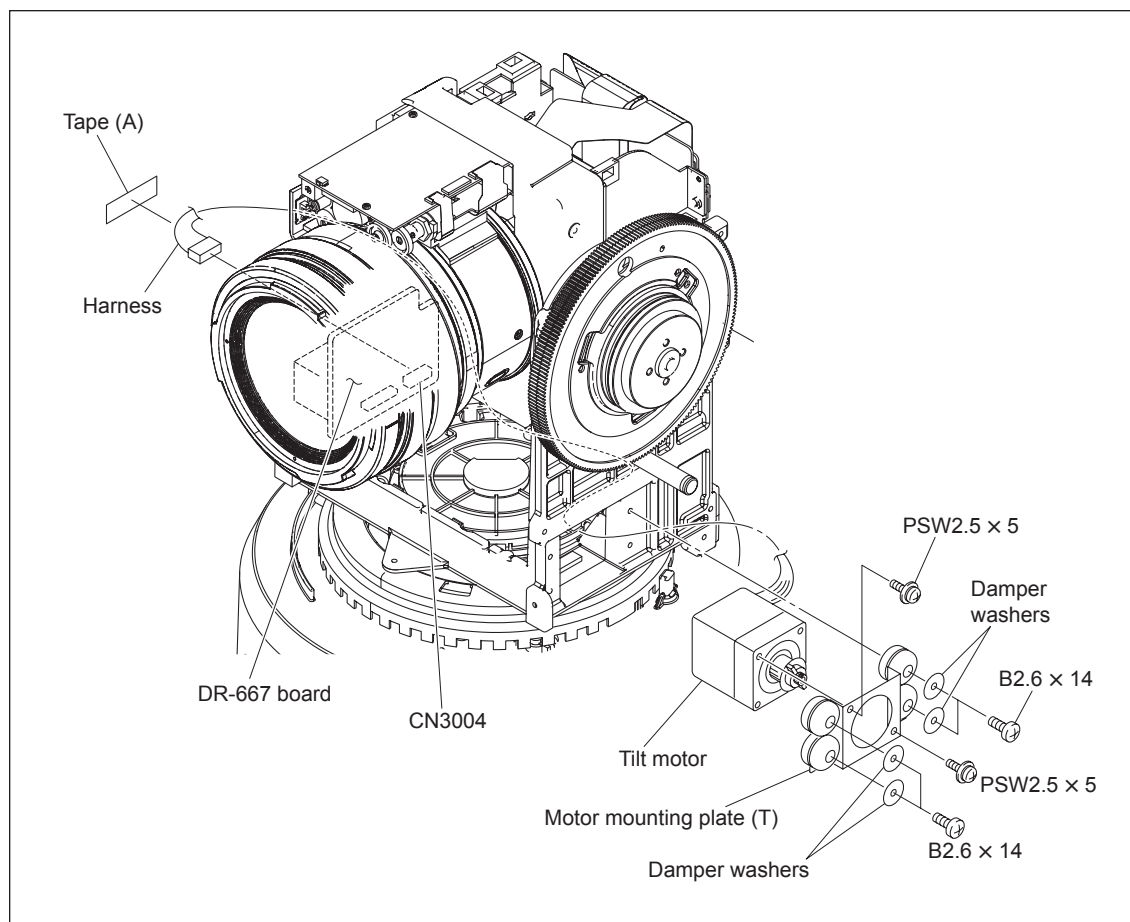
2-1-2. Tilt Motor

Removal

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the timing belt. (Refer to step 14 in Section 2-1-1.)
6. Remove the pulley (P). (Refer to step 15 in Section 2-1-1.)
7. Remove the tape (A) and disconnect the harness from the connector (CN3004) on the DR-667 board.
8. Remove the four screws (B2.6 × 14), then remove the four damper washers and motor mounting plate (T).
9. Remove the two screws (PSW2.5 × 5), then remove the tilt motor.

Note

When removing the tilt motor, the motor damper S may be displaced.

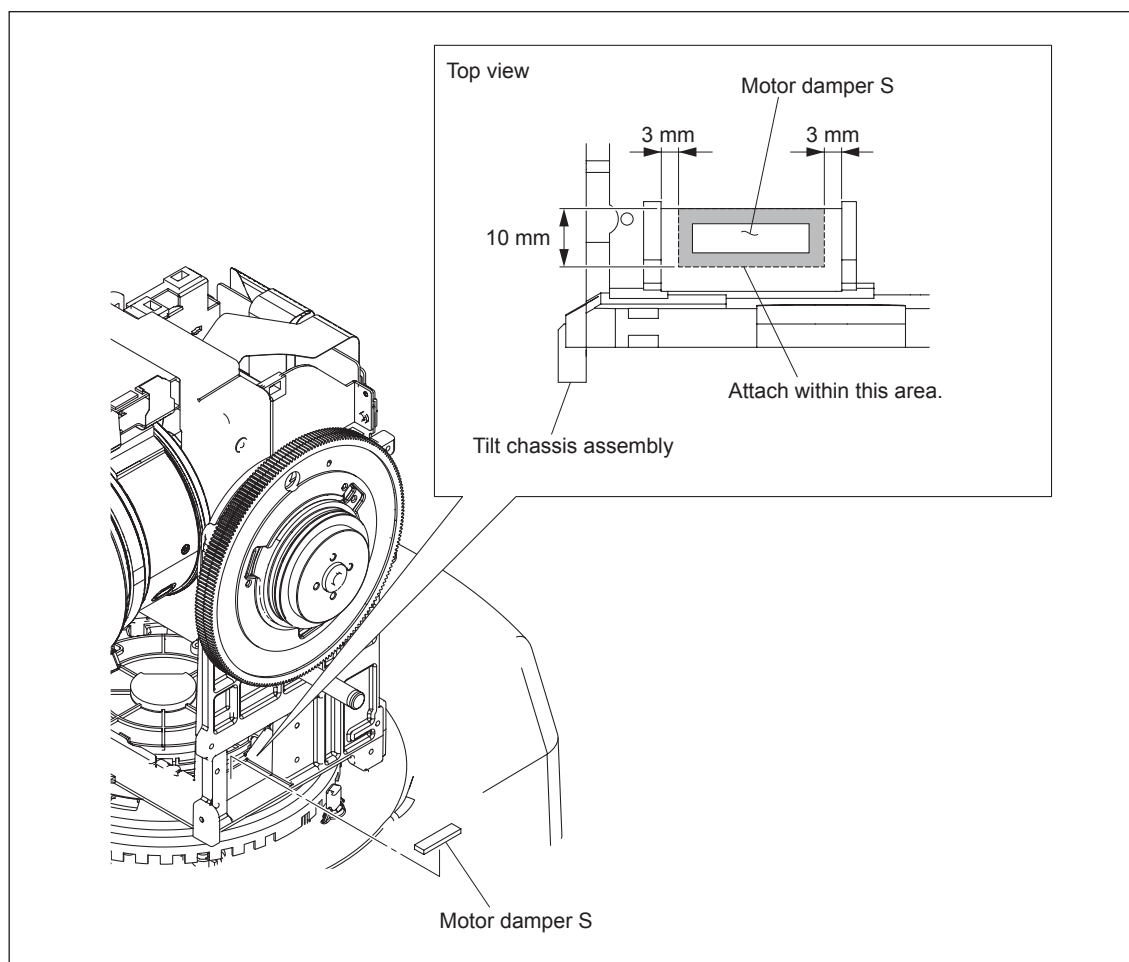


Installation

1. Perform the installation procedure in the reverse order of steps 7 to 9.

Notes

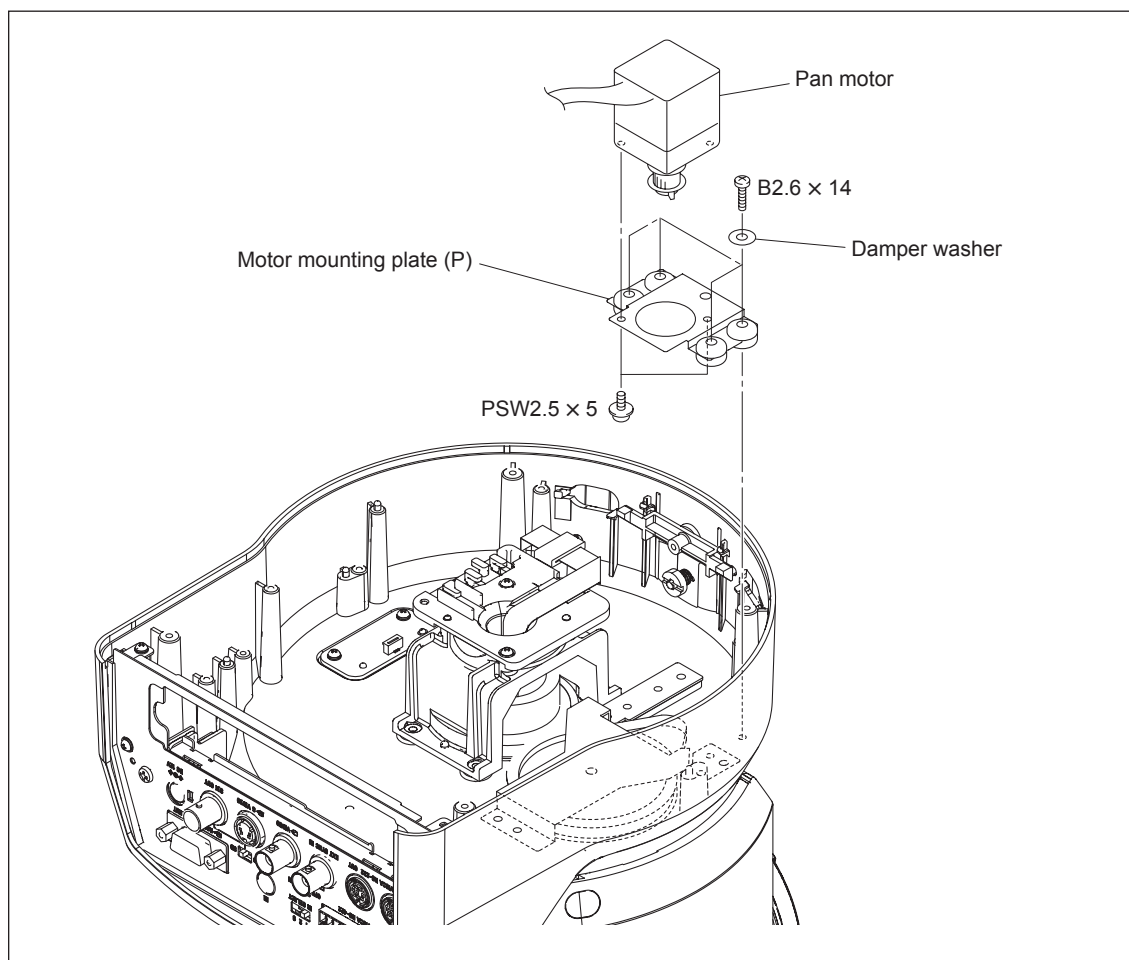
- When attaching the damper washers, securely attach it so that it does not move on the motor mounting plate (T).
- If the motor damper S is displaced when the tilt motor is removed, attach it according to the illustration below.



2. Attach the pulley (P). (Refer to step 6 of the installation procedure.)
3. Attach the timing belt. (Refer to steps 4 to 6 of “Installation” in Section 2-1-1.)
4. Assemble this unit in the reverse order of steps 1 to 4.

2-1-3. Pan Motor

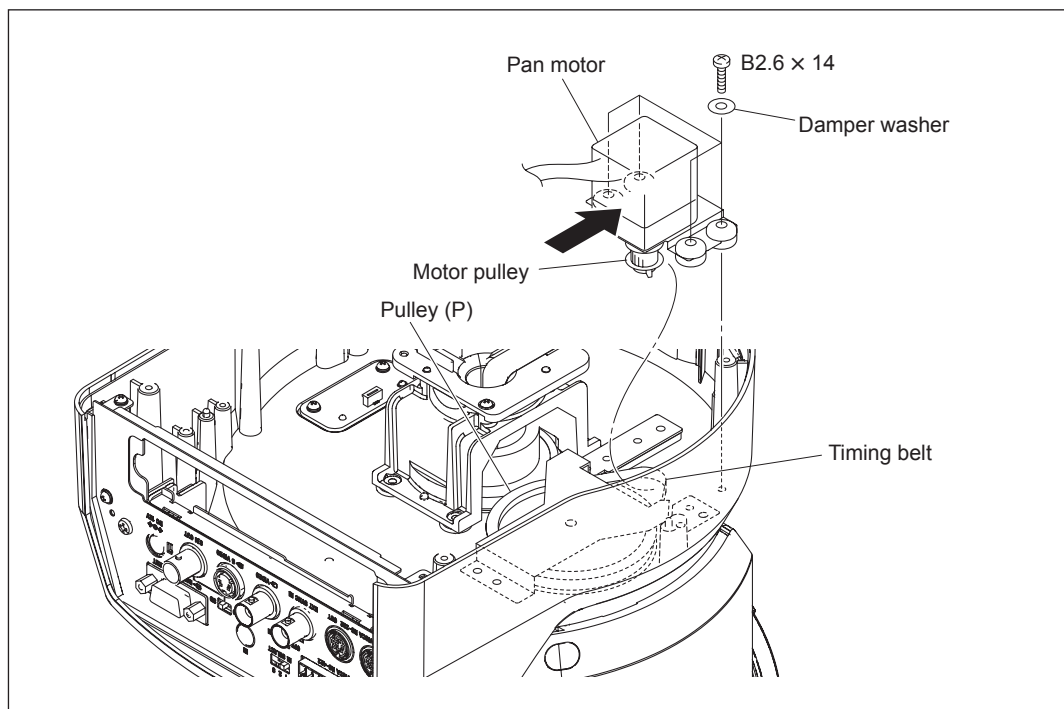
1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the HD blank panel assembly. (Refer to Section 1-2-9.)
3. Remove the DD-48 board. (Refer to Section 2-2-1.)
4. Remove the EXP chassis assembly. (Refer to steps 4 and 5 in Section 2-2-2.)
5. Remove the CC-101 board. (Refer to Section 2-2-3.)
6. Remove the four screws (B2.6 × 14), then remove the four damper washers and motor mounting plate (P).
7. Remove the two screws (PSW2.5 × 5), then remove the pan motor.



8. To install, reverse the removal procedure.

Notes

- When attaching the pan motor, hook the motor pulley on the timing belt, then tighten the four screws while pushing the pan motor in the direction of the arrow.
- After attaching the pan motor, rotate the pulley (P) to check if the timing belt is correctly hooked on the motor pulley and the pulley (P).



2-1-4. DC Fan

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the front cabinet assembly. (Refer to Section 1-2-6.)
7. Remove the camera cover (lower). (Refer to Section 1-2-7.)
8. Remove the camera block assembly. (Refer to Section 2-1-1.)
9. Remove the harness from the two clampers and the two edge holders on the camera board chassis.
10. Disconnect the harness from the connector (CN004) on the VC-16 board.
11. Remove the two screws, then remove the connector holder and radiation rubber.
12. Disconnect the BI-202 board, BI-203 board, and BI-204 board from the connectors (CN001 to CN003) on the VC-16 board.

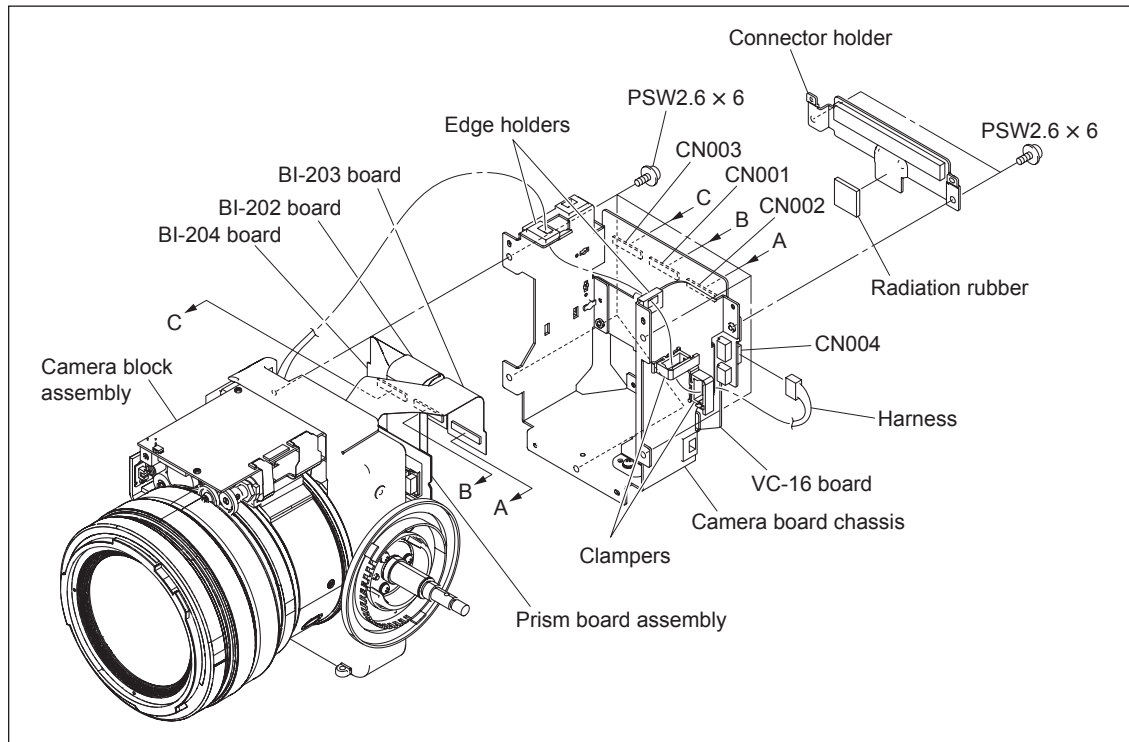
Note

The BI-202 board, BI-203 board, and BI-204 board are the flexible wiring boards. They would be easily damaged, be sure to treat with fully caution.

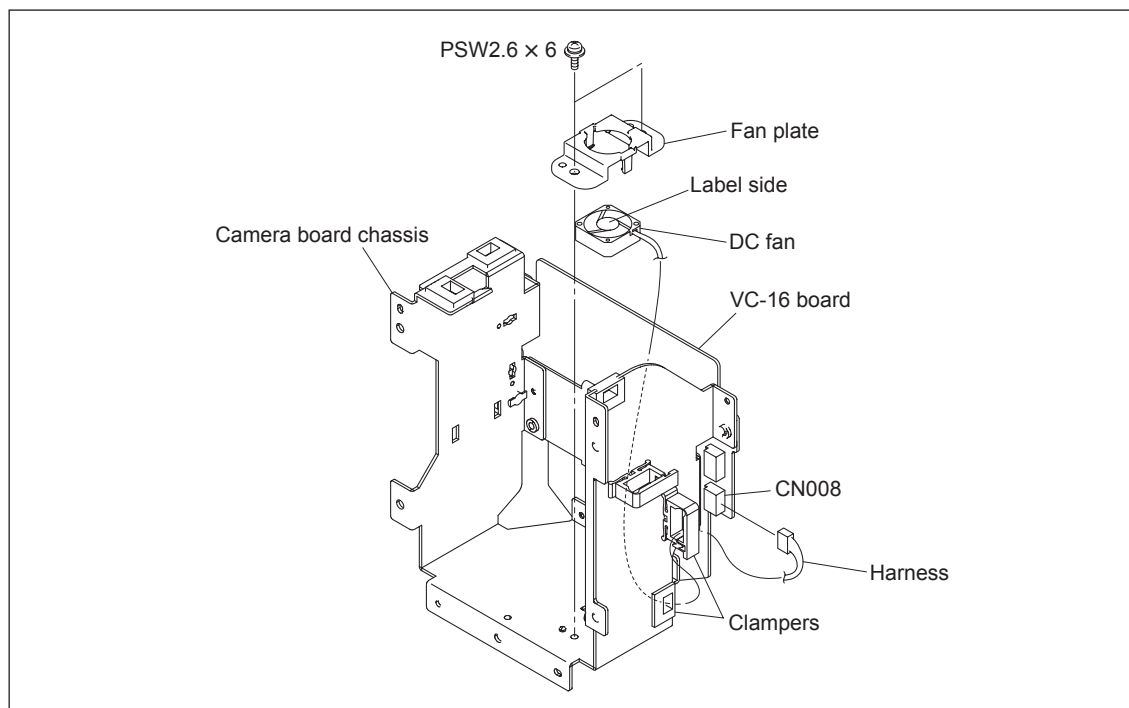
13. Remove the five screws, then remove the camera board chassis.

Note

When the camera board chassis is removed, take care not to touch to the prism board assembly in the camera block assembly.



14. Disconnect the harness from the connector (CN008) on the VC-16 board, then remove the harness from the two clampers.
15. Remove the two screws, then remove the fan plate and DC fan.



16. To install, reverse the removal procedure.

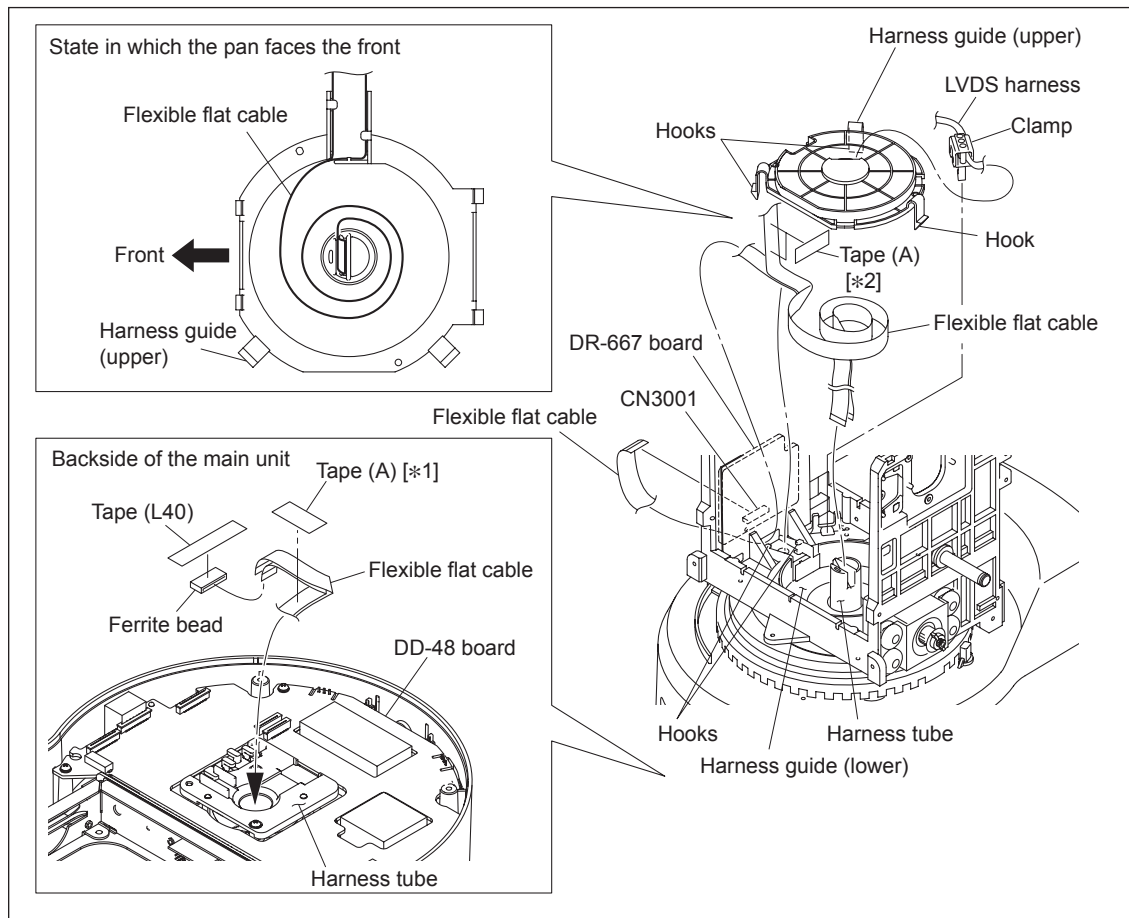
Note

When attaching the DC fan, orient the label side as shown in the figure.

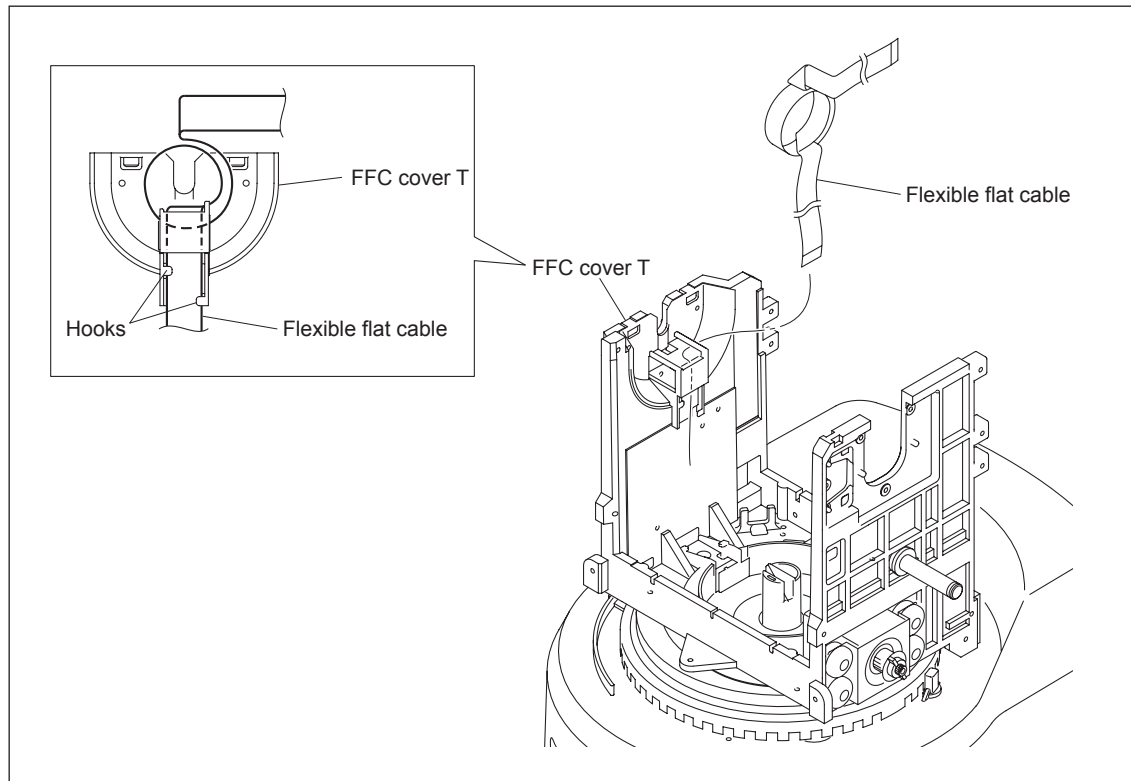
2-1-5. Flexible Flat Cable

Removal

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the front cabinet assembly. (Refer to Section 1-2-6.)
7. Remove the camera cover (lower). (Refer to Section 1-2-7.)
8. Remove the camera block assembly. (Refer to Section 2-1-1.)
9. Remove the base plate assembly. (Refer to Section 1-2-8.)
10. Disconnect the flexible flat cables from the connectors (CN6001 and CN6002) on the DD-48 board. (Refer to step 3 in Section 2-2-1.)
11. Remove the clamp from the LVDS harness assembly. (Refer to step 12 in Section 2-1-6.)
12. Remove the three hooks, then remove the harness guide (upper).
13. Disconnect the flexible flat cable from the connector (CN3001) on the DR-667 board.
14. Remove the tape (L40), then remove the ferrite bead.
15. Remove the tape (A) [*1], then pull out the flexible flat cable from the harness tube in the direction of the arrow.
16. Remove the two tapes (A) [*2], then remove the flexible flat cable from the two hooks of the harness guide (lower).



17. Remove the flexible flat cable from the two hooks of the FFC cover T.
18. Pull out the flexible flat cable from the FFC cover T.



Installation

1. Perform the installation procedure in the reverse order of step 15.

Note

Replace the removed tape (A) with the new one.

2. Perform the installation procedure in the reverse order of step 16.

Note

Replace the removed tape (A) with the new one.

3. Perform the installation procedure in the reverse order of steps 17 and 18.

4. Perform the installation procedure in the reverse order of steps 12 to 14.

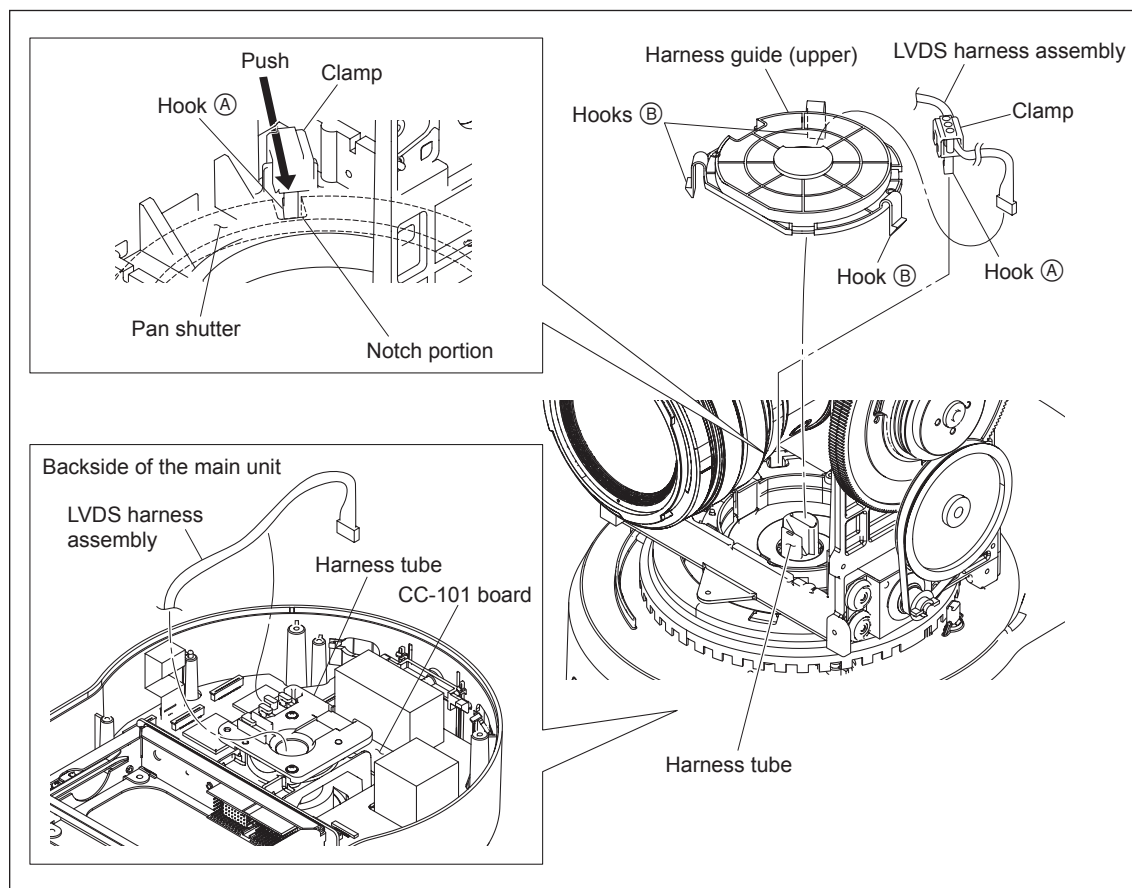
Note

Replace the removed tape (L40) with the new one.

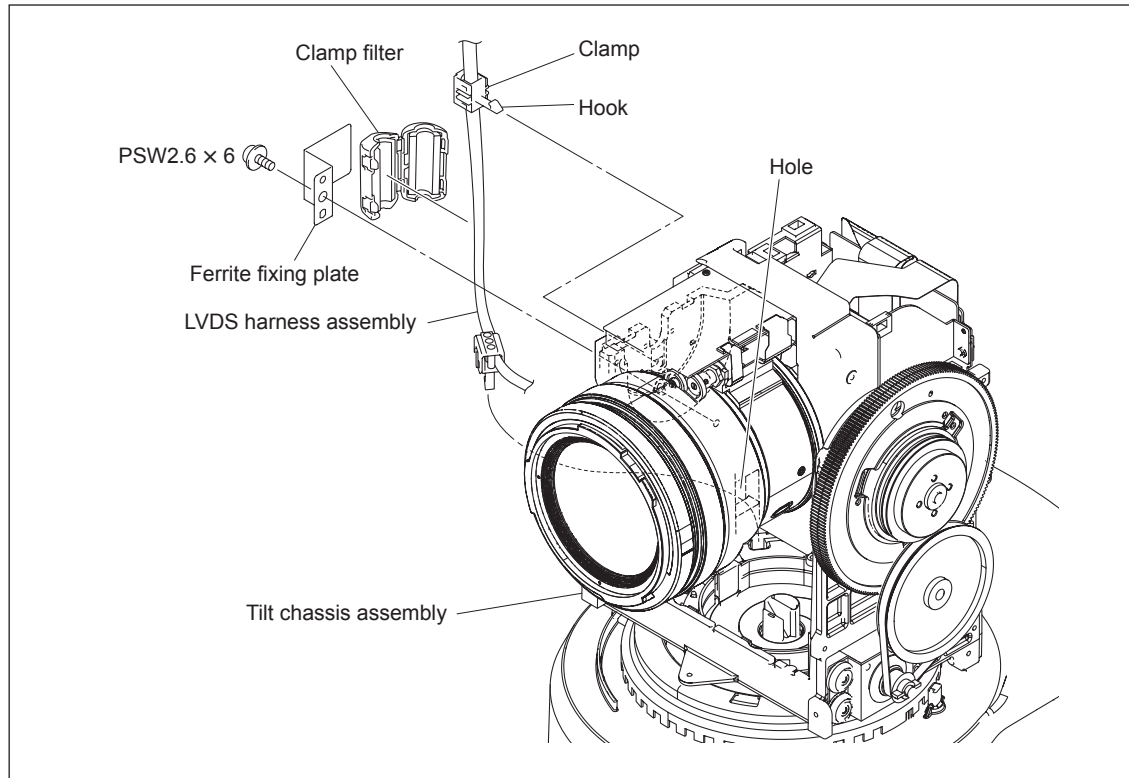
5. Assemble this unit in the reverse order of steps 1 to 11.

2-1-6. LVDS Harness Assembly

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the front cabinet assembly. (Refer to Section 1-2-6.)
7. Remove the camera cover (lower). (Refer to Section 1-2-7.)
8. Remove the base plate assembly. (Refer to Section 1-2-8.)
9. Remove the DD-48 board. (Refer to Section 2-2-1.)
10. Disconnect the LVDS harness assembly from the connector (CN701) on the CC-161 board.
(Refer to step 5 in Section 2-2-3.)
11. Remove the LVDS harness assembly from the harness tube.
12. Remove the clamp of the LVDS harness assembly by pushing the hook (A) with a tool such as precision screwdriver through the notch portion of the pan shutter.
13. Remove the three hooks (B), then remove the harness guide (upper).
14. Pull out the LVDS harness assembly from the harness tube and harness guide (upper).



15. Remove the screw, then remove the ferrite fixing plate.
16. Remove the hook while pushing the clamp in the inserting direction, then remove the clamp.
17. Pull out the LVDS harness assembly through the hole of the tilt chassis.
18. Remove the clamp filter from the LVDS harness assembly.



19. Remove the LVDS harness from the two edge holders and two clmpers.
20. Remove the LVDS harness assembly from the connector (CN005) on the VC-16 board.

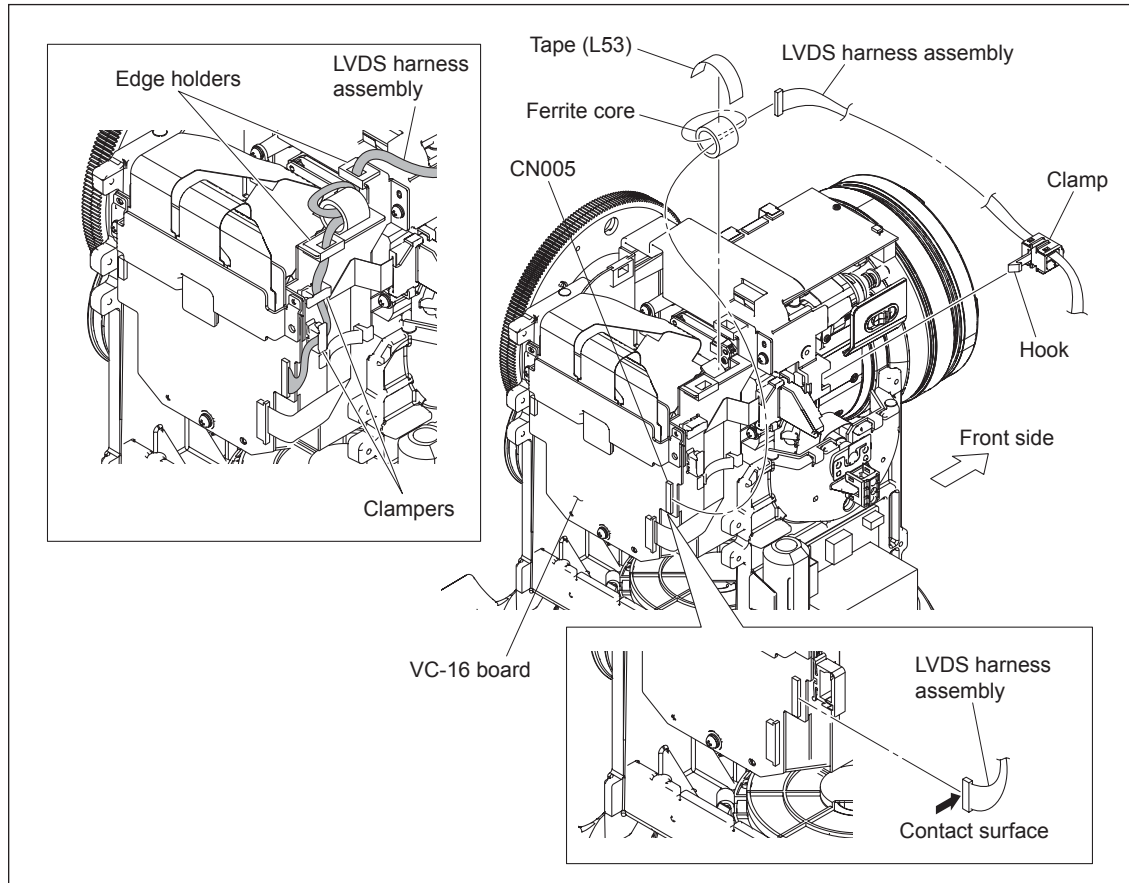
Note

When connecting the LVDS harness assembly, be careful for the direction of the connector.

21. Remove the tape (L53), then remove the ferrite core.
22. Remove the hook while pushing the clamp in the inserting direction, then remove the clamp.
23. Remove the ferrite core from the LVDS harness assembly.

Note

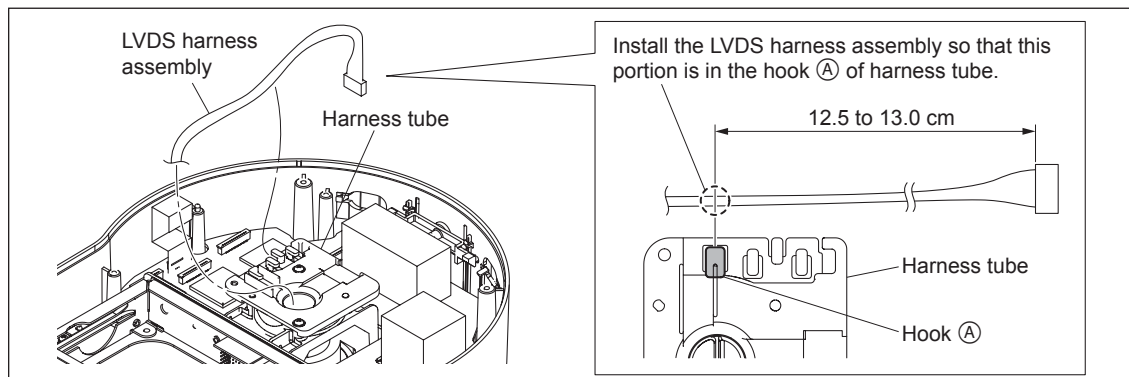
When installing the ferrite core, twist the LVDS harness assembly around ferrite core.



24. To install, reverse the removal procedure.

Notes

- Replace the removed tape (L53) with the new one.
- When installing the LVDS harness assembly to the harness tube, install as shown in the figure.



2-2. Replacing the Board

Note

When this unit is turned upside down to removing/installing the boards in the cabinet base assembly, place this unit with holding the cabinet base assembly.

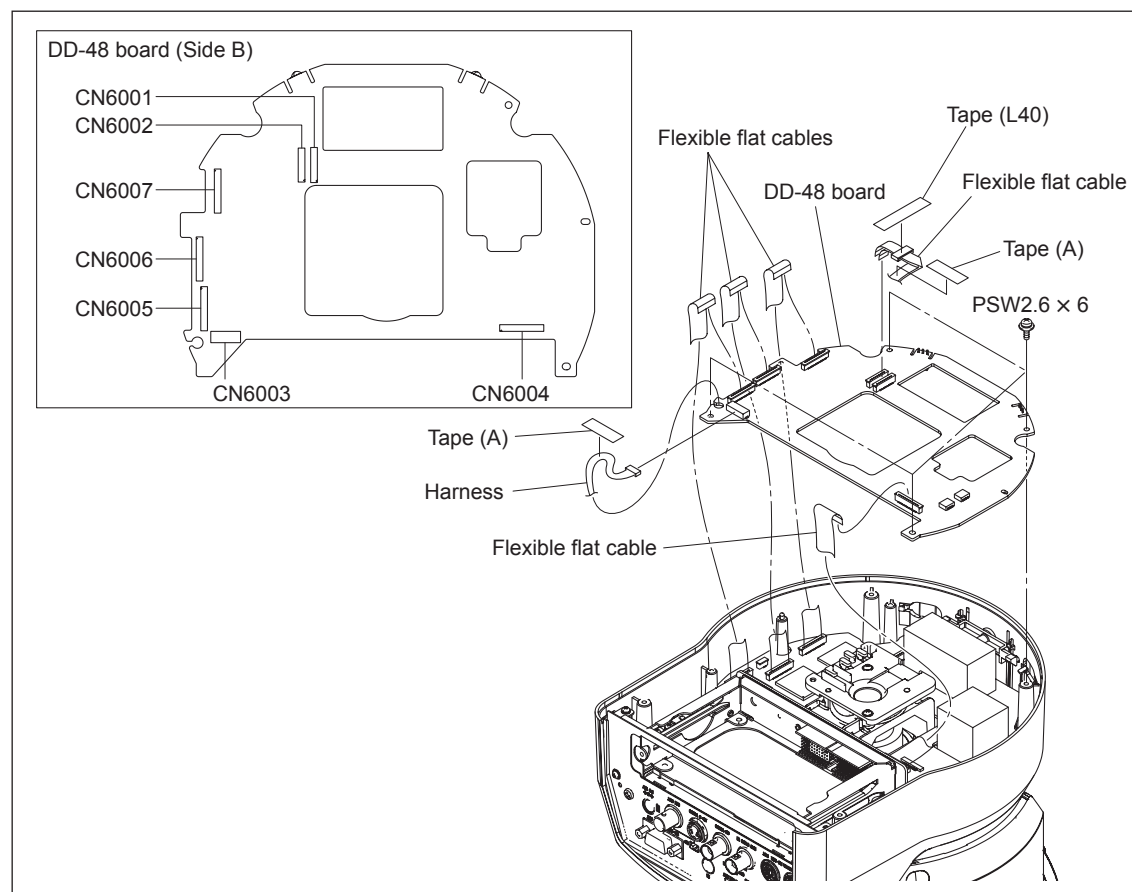
Do not place this unit with causing stress to the camera block assembly.

The following boards are out of servicing. When replacing, replace with the assembly including the board.

- VC-16 board, BI-202 board, BI-203 board, and BI-204 board: 2-1-1. Camera Block Assembly
- SW-1532 board: 2-2-5. DC-157 Board and CN Chassis Assembly

2-2-1. DD-48 Board

1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the two tapes (A) and tape (L40).
3. Disconnect the six flexible flat cables from the connectors (CN6001, CN6002, CN6004 to CN6007) and disconnect the harness from the connector (CN6003) on the DD-48 board.
4. Remove the four screws, then remove the DD-48 board



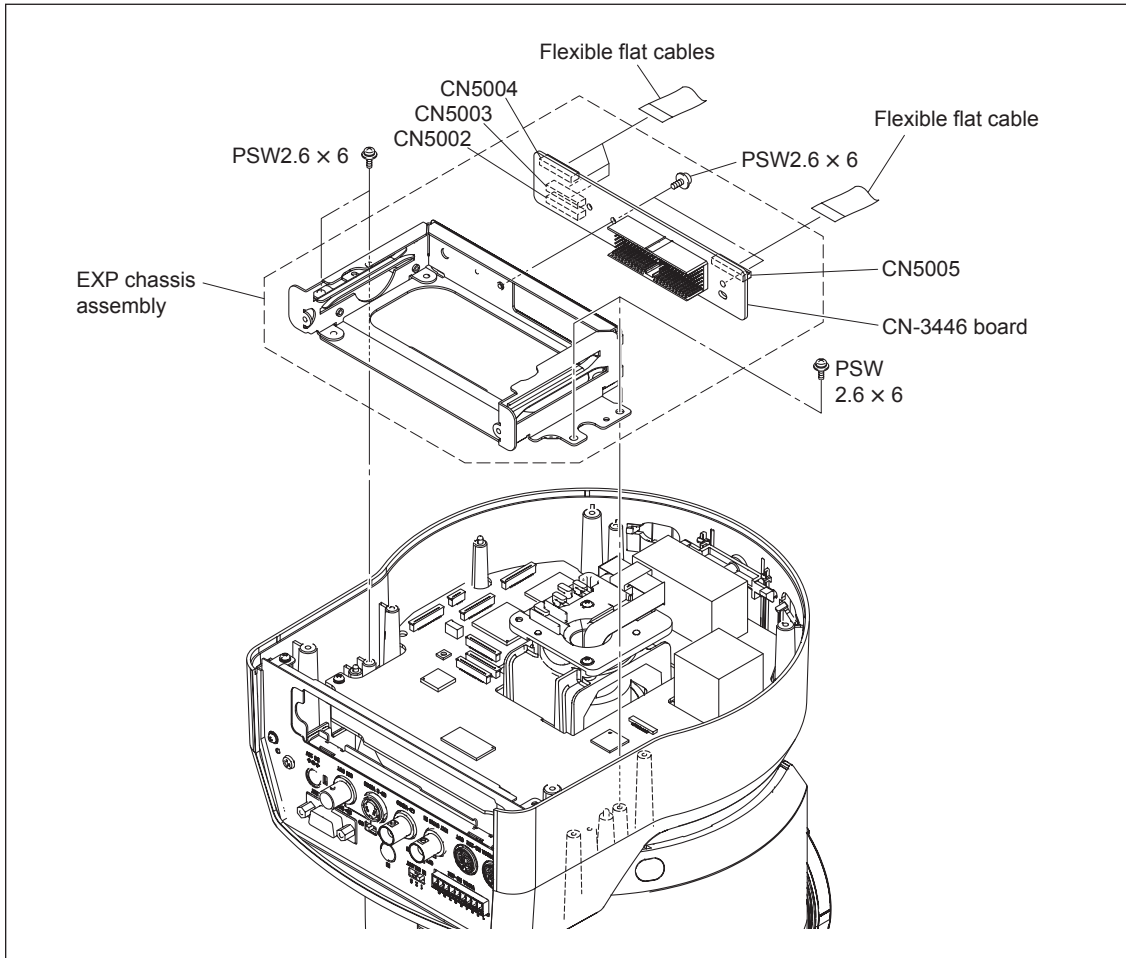
5. To install, reverse the removal procedure.

Note

Replace the removed two tapes (A) and tape (L40) with the new one.

2-2-2. CN-3446 Board

1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the HD blank panel assembly. (Refer to Section 1-2-9.)
3. Remove the DD-48 board. (Refer to Section 2-2-1.)
4. Disconnect the four flexible flat cables from the connectors (CN5002 to CN5005) on the CN-3446 board.
5. Remove the four screws, then remove the EXP chassis assembly.
6. Remove the two screws, then remove the CN-3446 board.



7. To install, reverse the removal procedure.

2-2-3. CC-101 Board

Note

When the CC-101 board is replaced, perform the adjustment. (Refer to Section 3-2.)

1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the HD blank panel assembly. (Refer to Section 1-2-9.)
3. Remove the DD-48 board. (Refer to Section 2-2-1.)
4. Remove the EXP chassis assembly. (Refer to steps 4 and 5 in Section 2-2-2.)

5. Disconnect the LVDS harness assembly from the connector (CN1001) on the CC-101 board.

Note

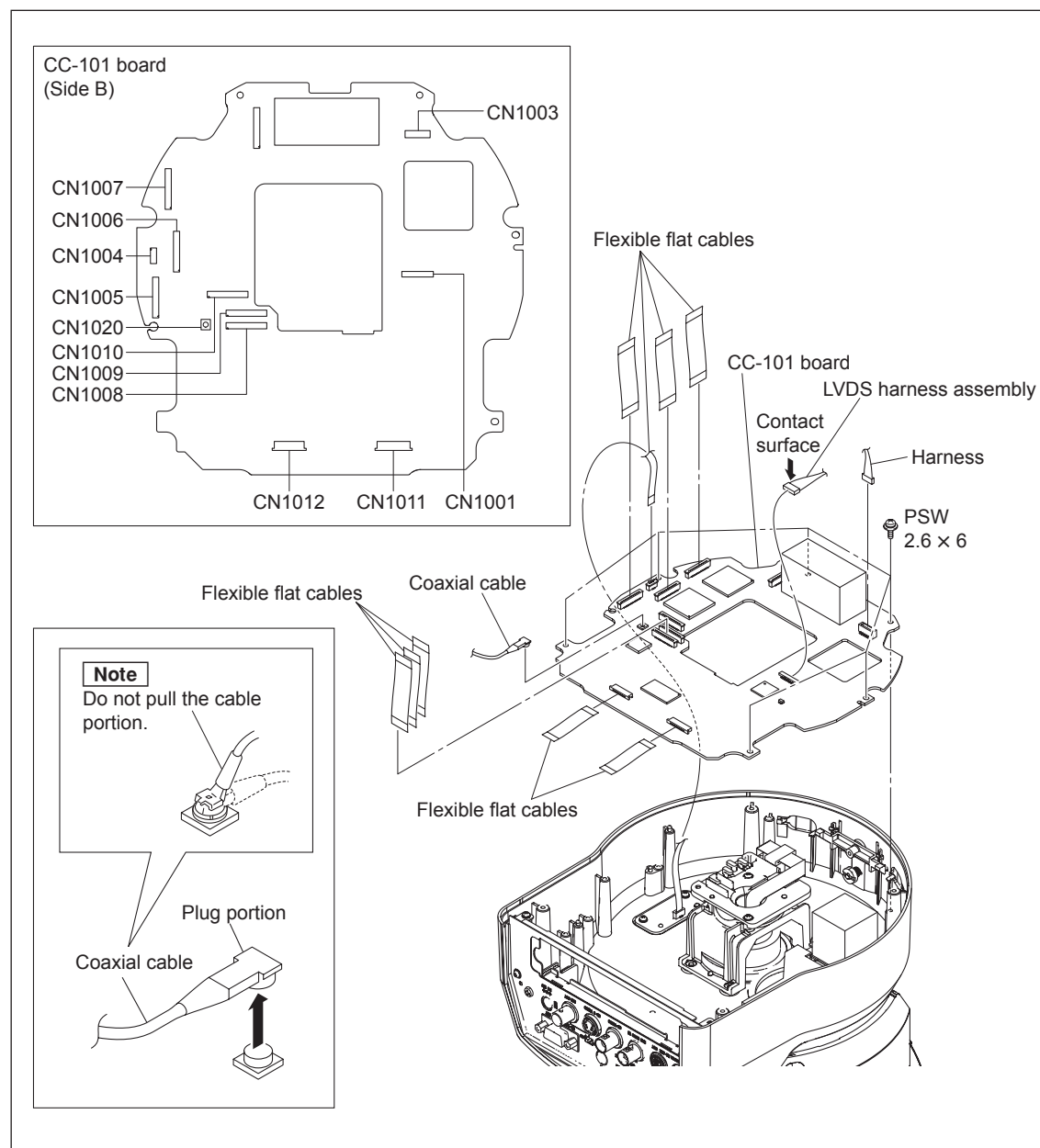
When connecting the LVDS harness assembly, take care of the direction of the connector.

6. Disconnect the coaxial cable from the connector (CN1020) on the CC-101 board.

Note

When disconnecting the coaxial cable, handle the plug portion.

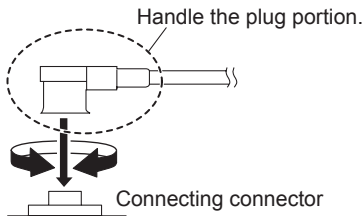
7. Disconnect the harness from the connector (CN1003) on the CC-101 board.
8. Disconnect the three flexible flat cables from the connectors (CN1004, CN1011, CN1012) on the CC-101 board.
9. Remove the six screws and disconnect the six flexible flat cables from the connectors (CN1005, CN1006, CN1007, CN1008, CN1009 and CN1010) on the CC-101 board, then remove the CC-101 board.



10. To install, reverse the removal procedure.

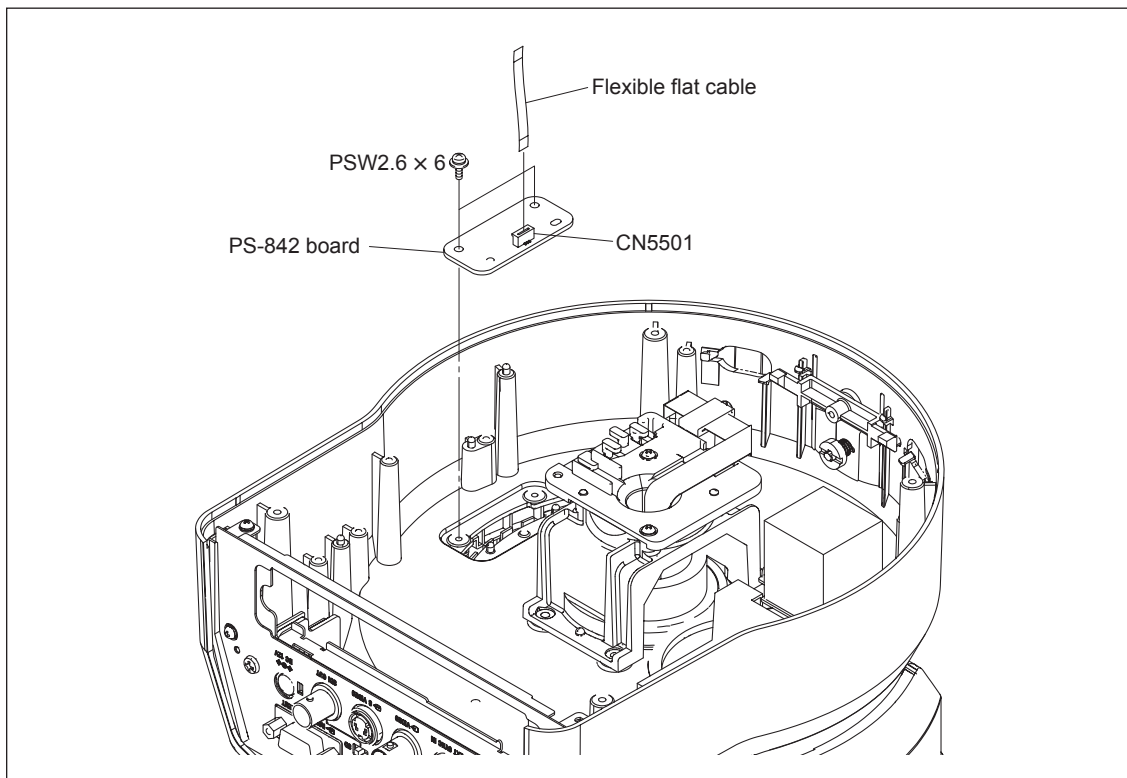
Note

When connecting the coaxial cable, connect it straight to the connector by handling the plug portion, and push it into the connector by turning it clockwise and counterclockwise several times.



2-2-4. PS-842 Board

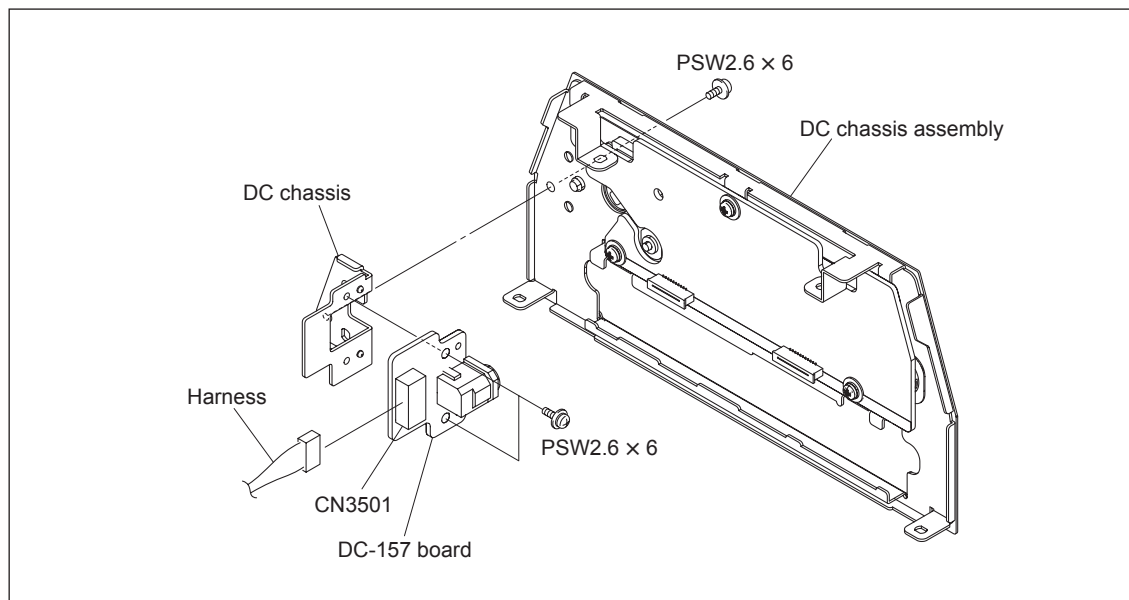
1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the HD blank panel assembly. (Refer to Section 1-2-9.)
3. Remove the DD-48 board. (Refer to Section 2-2-1.)
4. Remove the EXP chassis assembly. (Refer to steps 4 and 5 in Section 2-2-2.)
5. Remove the CC-101 board. (Refer to Section 2-2-3.)
6. Remove the two screws and disconnect the flexible flat cable from the connector (CN5501) on the PS-842 board, then remove the PS-842 board.



7. To install, reverse the removal procedure.

2-2-5. DC-157 Board and CN Chassis Assembly

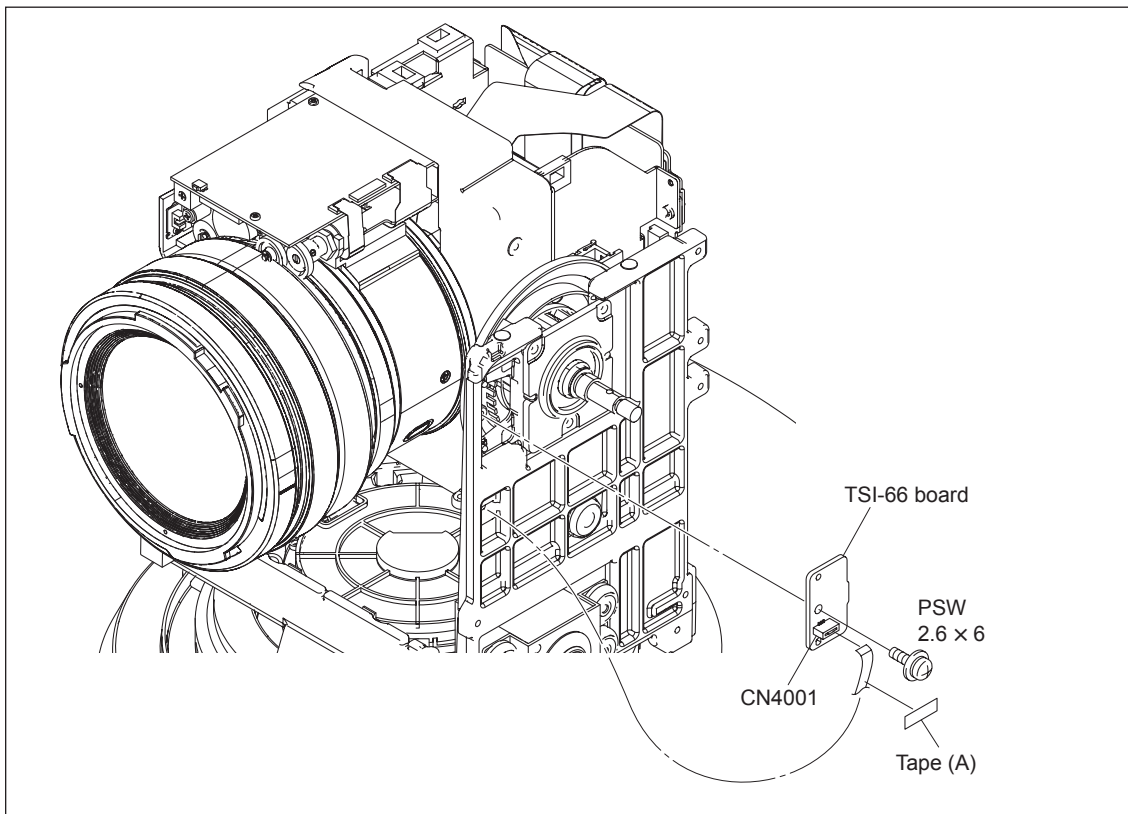
1. Remove the base plate assembly. (Refer to Section 1-2-8.)
2. Remove the HD blank panel assembly. (Refer to Section 1-2-9.)
3. Remove the DD-48 board. (Refer to Section 2-2-1.)
4. Remove the EXP chassis assembly. (Refer to steps 4 and 5 in Section 2-2-2.)
5. Remove the CC-101 board. (Refer to Section 2-2-3.)
6. Remove the rear panel assembly. (Refer to Section 1-2-10.)
7. Remove the screw, then remove the DC chassis.
8. Remove the two screws, then remove the DC-157 board from the DC chassis.
9. Disconnect the harness from the connector (CN3501) on the DC-157 board.



10. To install, reverse the removal procedure.

2-2-6. TSI-66 Board

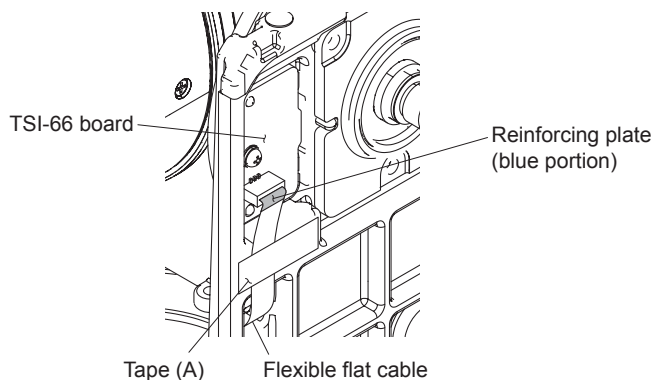
1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the pulley (P). (Refer to steps 14 and 15 in Section 2-1-1.)
4. Remove the wave holder (T), T sheet, two wave washers, gear holder (T), parallel pin, gear (T), holder screw (T), wave washer and washer (T). (Refer to steps 16 to 19 of “Removal” in Section 2-1-1.)
5. Remove the tape (A), then disconnect the flexible flat cable from the connector (CN4001) on the TSI-66 board.
6. Remove the screw, then remove the TSI-66 board.



7. To install, reverse the removal procedure.

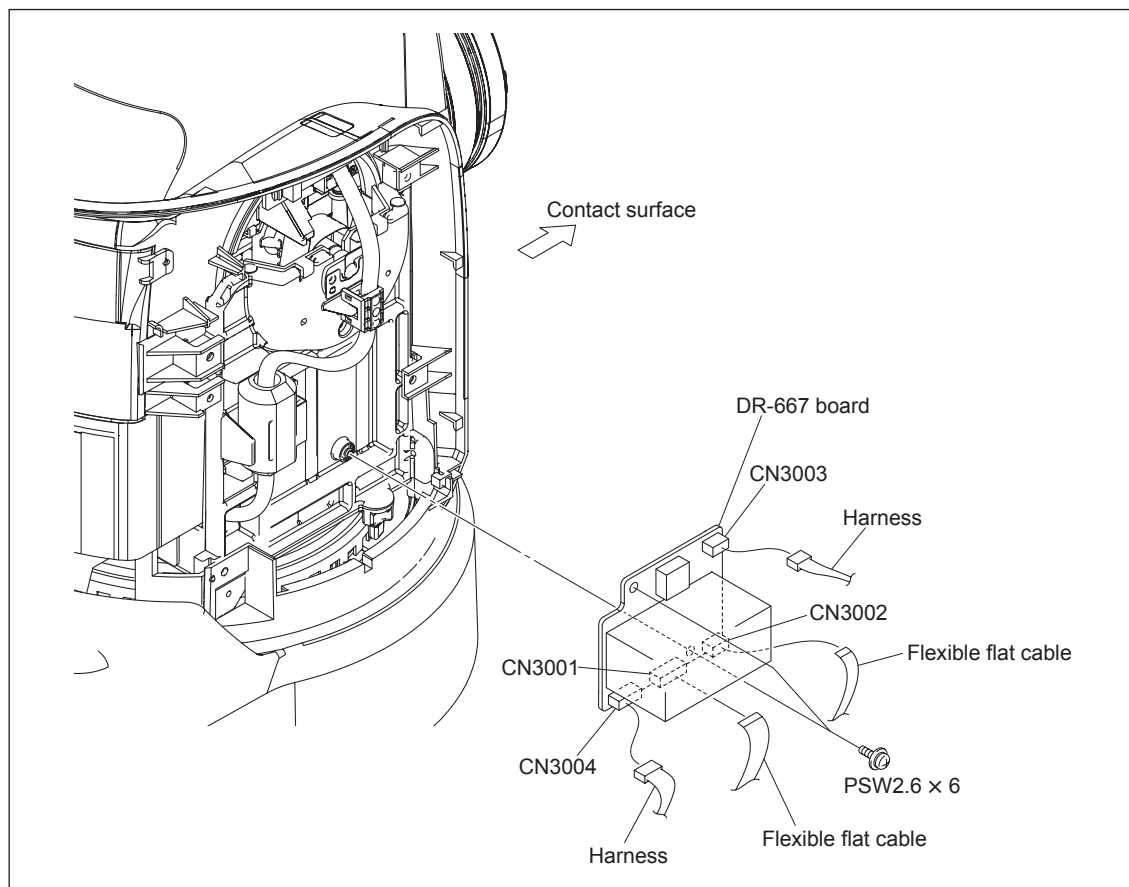
Notes

- Replace the removed tape (A) with the new one.
- When attaching the flexible flat cable, bend the reinforcing plate (blue portion) of the flexible flat cable and affix the tape (A) so that there is no slack in the cable.



2-2-7. DR-667 Board

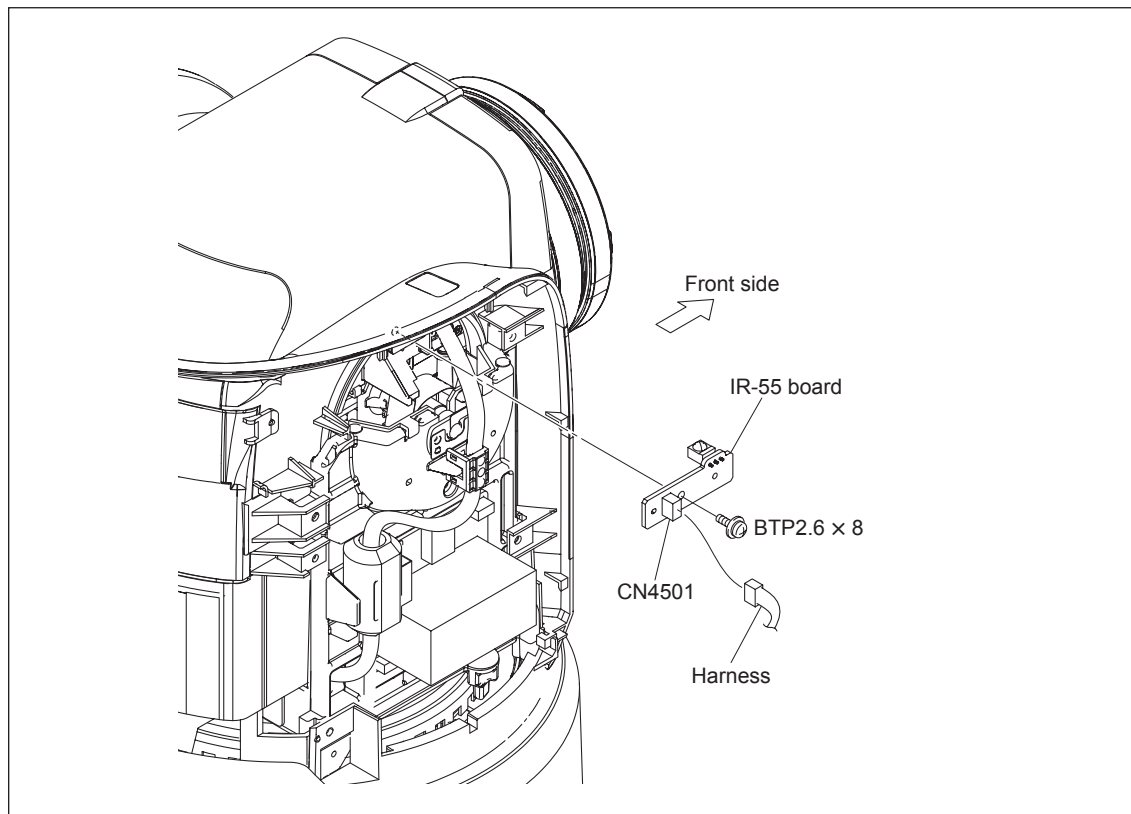
1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Disconnect the two flexible flat cables from the connectors (CN3001 and CN3002) and disconnect the two harnesses from the connectors (CN3003 and CN3004) on the DR-667 board.
3. Remove the two screws, then remove the DR-667 board.



4. To install, reverse the removal procedure.

2-2-8. IR-55 Board

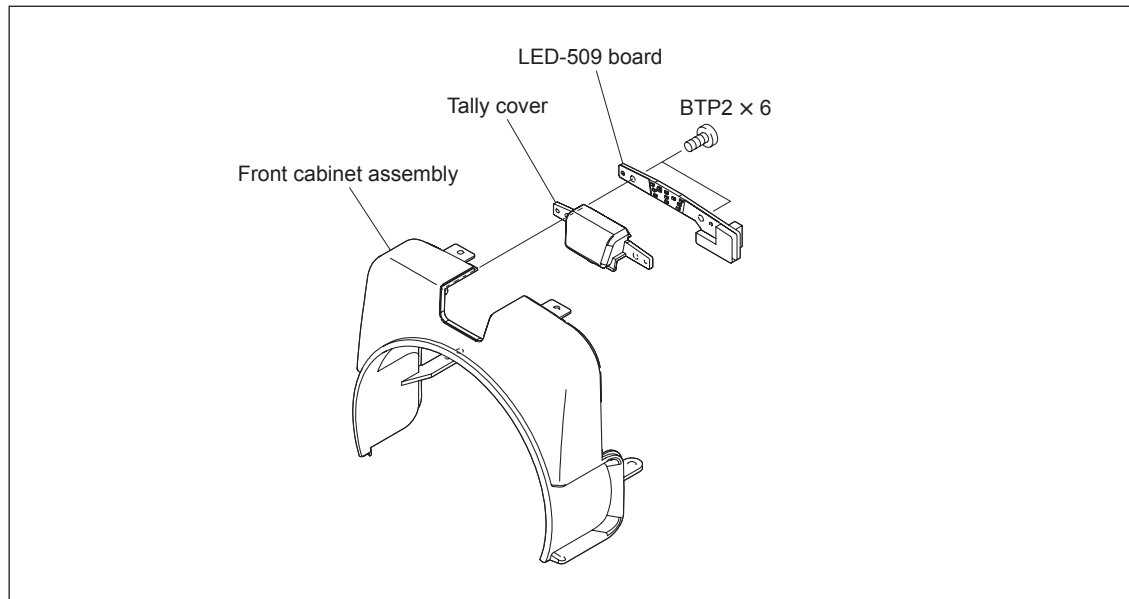
1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Disconnect the harness from the connector (CN4501) on the IR-55 board.
3. Remove the screw, then remove the IR-55 board.



4. To install, reverse the removal procedure.

2-2-9. LED-509 Board

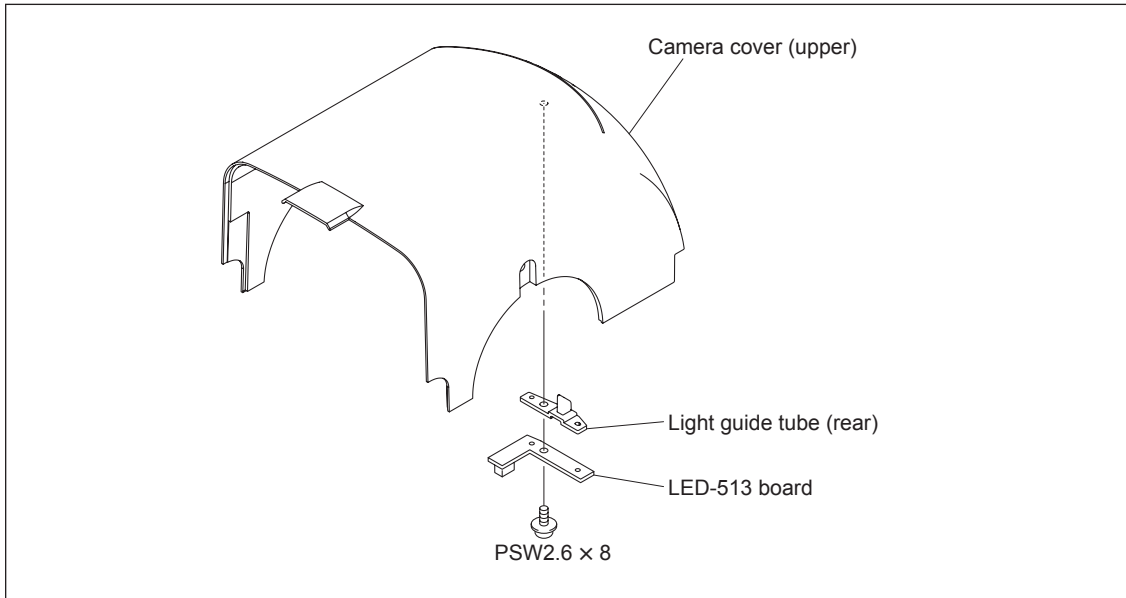
1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the front cabinet assembly. (Refer to Section 1-2-6.)
7. Remove the two screws, then remove the LED-509 board and tally cover.



8. To install, reverse the removal procedure.

2-2-10. LED-513 Board

1. Remove the outer covers (right) and (left). (Refer to Section 1-2-1.)
2. Remove the inner covers (center), (right), and (left). (Refer to Section 1-2-2.)
3. Remove the inner cover (front) assembly. (Refer to Section 1-2-3.)
4. Remove the inner cover (rear). (Refer to Section 1-2-4.)
5. Remove the camera cover (upper). (Refer to Section 1-2-5.)
6. Remove the screw, then remove the LED-513 board and light guide tube (rear).



7. To install, reverse the removal procedure.

2-2-11. VC-16 Board

VC-16 board is out of servicing. When the VC-16 board replacement is required, replace the camera block assembly. (Refer to Section 2-1-1.)

The fuse and connector on the VC-16 board is able to replace. For details, refer to Section 6-3.

2-2-12. SW-1532 Board

SW-1532 board is out of servicing. When the SW-1532 board replacement is required, replace the CN chassis assembly. (Refer to Section 2-2-5.)

For the replacing parts on the SW-1532 board, refer to Section 6-3.

Section 3 Adjustment

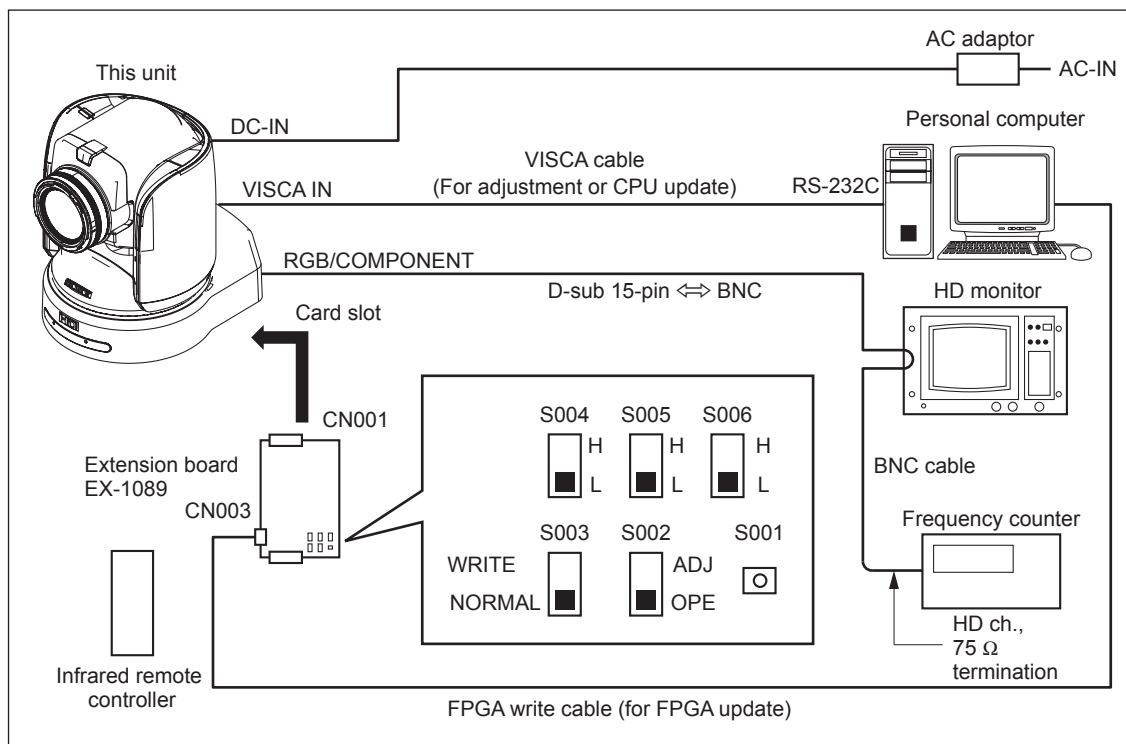
3-1. List of Required Equipment and Tools

3-1-1. List of Required Equipment and Tools

Required equipment	
HD monitor	
Frequency counter	
VISCA cable	
BNC cable	
RGB/ component cable: D-sub (15-pin) ⇔ BNC	
FPGA write cable*: USB BLASTER REV C (USB connection) or BYTE BLASTER II (parallel connection) made by Altera	
Infrared remote controller (Supplied for this unit)	
AC adaptor (Supplied for this unit)	
75 Ω terminator	
Personal computer: OS: Windows XP/Vista, RS-232C interface	
Tools	
Extension board EX-1089	J-6700-580-A
FCB control software	J-6432-770-B
Terminal software:	Tera Term/HyperTerminal, etc.
FPGA write software*	Quartus II PROGRAMMER 10.1 SP1 or higher made by Altera
System CPU/motor CPU write software*	Flash Development Toolkit V4.07 or later made by Renesas Electronics

* Used for version upgrade

3-1-2. Connection



3-1-3. Preparation

1. Install the terminal software (Tera Term, Hyper Terminal, etc.) on the PC.
2. Connect each device. (Refer to Section 3-1-2.)
3. Turn on the power of each device except this unit.

Note

When using the USB BLASTER REV C as a FPGA writing cable, be sure to turn on the power of this unit after turning on the power of the PC, and turn off the power of the PC after turning off the power of this unit.

3-2. Overall Adjustment

When replacing the CC-101 board, perform the adjustment in Sections 3-2-1 to 3-2-6 in the order as described.

When replacing the camera block assembly, perform the adjustment in Sections 3-2-2, 3-2-3 and 3-2-7.

3-2-1. FACTORY RESET

1. Turn on the power of this unit while pressing the SUPER RESET switch (S001) of the extension board EX-1089.
2. Release the switch (S001) when “Doing Super Reset” is displayed on the monitor screen.
3. When the display on the monitor screen is changed, turn off the power of this unit.

3-2-2. Debug Mode Setting

1. Set the switch of the extension board EX-1089 as follows.

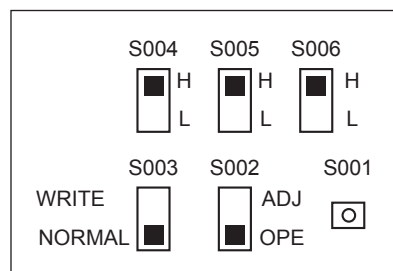
S002: OPE

S003: NORMAL

S004: H

S005: H

S006: H



2. Set all DIP switches (S6001 and S6002/DD-48 board) on the bottom of this unit to OFF.

3-2-3. Initialization of Zoom/Focus

Note

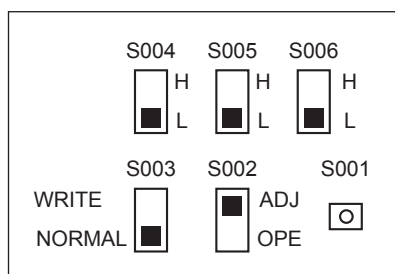
The following is the procedure in the case of using HyperTerminal as the terminal software.

1. Turn on the power of this unit.
2. Start HyperTerminal on the PC.
3. Type any name for the new connection.
4. Select the COM port of the PC.
5. Set the port as follows and connect to this unit.
 - Bit/second: 115200
 - Data bit: 8
 - Parity: None
 - Stop bit: 1
 - Flow control: None
6. Type the command "zoom_init".
The initialization of zoom is started. After the initialization is completed, "complete" is displayed.
7. If "complete" is not displayed, check the connection between the PC and this unit, and start over from step 1.
8. Type the command "focus_init".
The initialization of focus is started. After the initialization is completed, "complete" is displayed.
9. Turn off the power of this unit.

3-2-4. Test Mode Setting

1. Set the switch of the extension board EX-1089 as follows.

S002: ADJ
S003: NORMAL
S004: L
S005: L
S006: L



2. Set the 75 Ω switch on the rear panel of this unit to ON.

3-2-5. VCO Frequency Adjustment 1

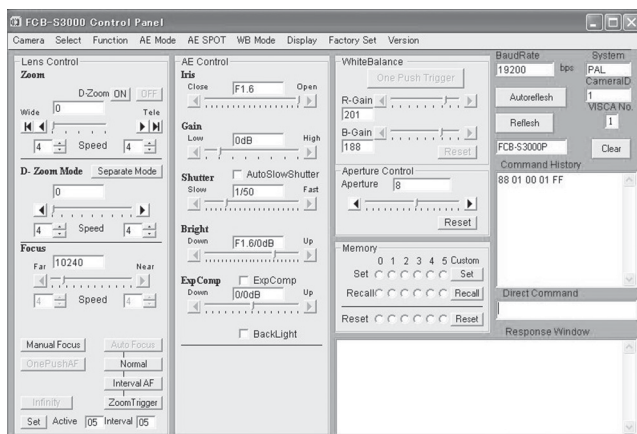
1. Set No. 1 (59.94 $\Leftrightarrow$ 50) of the DIP switch (S6001/DD-48 board) on the bottom of this unit to “50”.
2. Turn on the power of this unit.
3. Press the **DATA SCREEN** button of the infrared remote control four times.
“EVR_CAM no:001 data:xxx” is displayed.
4. Adjust the frequency counter value so that it meets the following specification A using the $\uparrow/\downarrow$ button of the infrared remote control.
Specification A: 28125.0 $\pm$ 0.1 Hz
Notes
 - The value is increased by pressing the $\uparrow$ button.
 - The value is decreased by pressing the $\downarrow$ button.
5. Turn off the power of this unit.

3-2-6. VCO Frequency Adjustment 2

1. Set No. 1 (59.94 $\Leftrightarrow$ 50) of the DIP switch (S6001/DD-48 board) on the bottom of this unit to “59.94”.
2. Turn on the power of this unit.
3. Press the **DATA SCREEN** button of the infrared remote control four times.
“EVR_CAM no:001 data:xxx” is displayed.
4. Adjust the frequency counter value so that it meets the following specification B using the $\uparrow/\downarrow$ button of the infrared remote control.
Specification B: 33716.284 $\pm$ 0.100 Hz
Notes
 - The value is increased by pressing the $\uparrow$ button.
 - The value is decreased by pressing the $\downarrow$ button.
5. Turn off the power of this unit.

3-2-7. Lens Setting Check

1. Turn on the power of this unit.
2. Start FCB Control Soft on the PC.



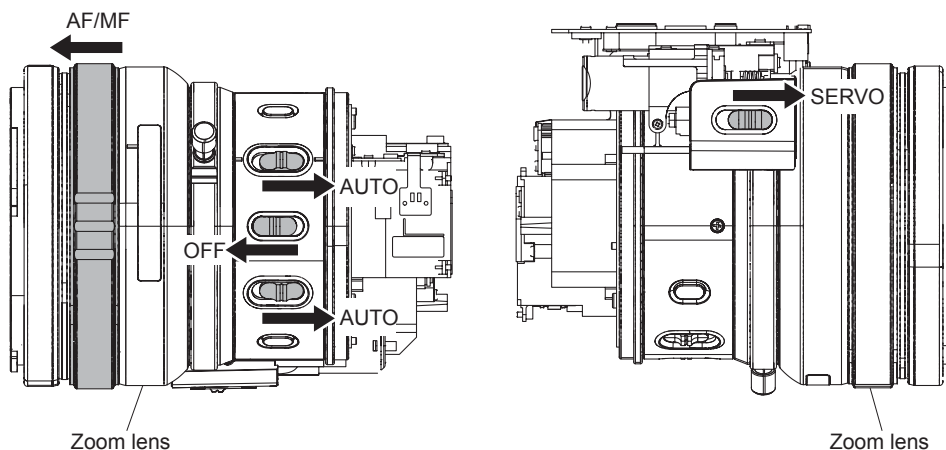
Note

Although this software is for FCB-S3000/S3000P, it can also be used for this unit.
The menus other than Direct command are not used.

3. Type the command “81 01 7E 01 4E 01 FF” in the “Direct command” box in the lower right area of screen.
Ack (90 41 FF) and Completion (90 51 FF) commands are returned.
4. Type the command “81 01 7E 01 5D 00 FF”.
Ack (90 41 FF) and Completion (90 51 FF) commands are returned.
5. Type the command “81 01 7E 01 5D 01 FF”.
Ack (90 41 FF) and Completion (90 51 FF) commands are returned.
6. Type the command “81 09 7E 01 5D FF”.
7. Check that the command “90 50 01 0F 0E 0B FF” is returned.

Note

If the command other than “90 50 01 0F 0E 0B FF” is returned, the lens switch setting is different from that of the shipment mode. Check if the lens switch setting is as follows.



8. Turn off the power of this unit.

3-3. Version Upgrade

The CC-101 board has CPU and FPGA. Perform the version upgrade as required.

3-3-1. Preparation for CPU Writing

Write the firmware of CPU (IC1009 and IC1010) mounted on the CC-101 board.

Tools

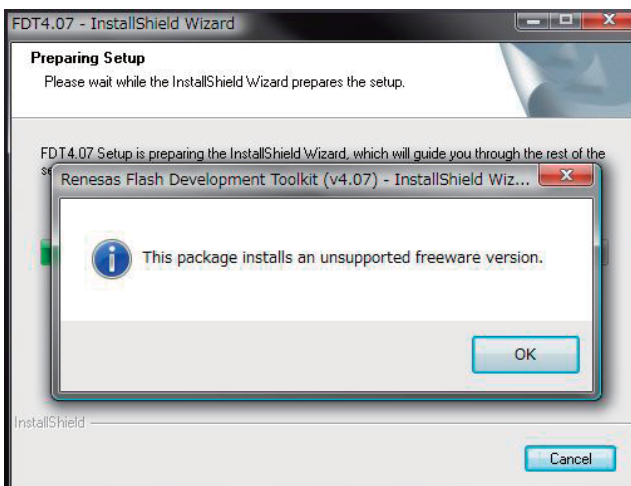
- PC: Equipped with RS-232C port
OS: Windows XP/Vista
- Writing tool: FLASH development Toolkit V4.07 or later (manufactured by Renesas Electronics)
- Writing file (mot)

Notes

- When using USB $\leftrightarrow$ RS-232C converter, the writing speed may be extremely slowed down, or the device recognition may fail. If the writing is not successful after the reconnection, perform the writing using the PC having the RS-232C port.
- The writing tool downloaded from the Web site of Renesas Electronics is a free software that is not supported by the maker. Do not contact the maker. This software cannot be used for commercial purposes. Use it only for supporting this unit.
- For obtaining the writing file, contact your local Sony Sales Office/Service Center.

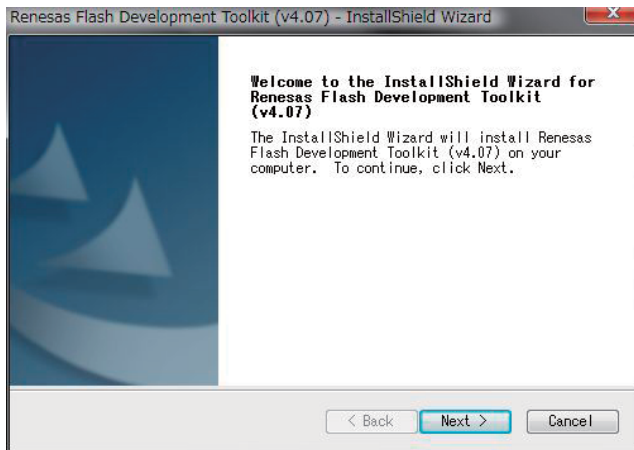
3-3-2. Installation of Writing Tool

1. Double-click the installer “fdtv407r00.exe”.
“This package installs an unsupported freeware version.” message is displayed.

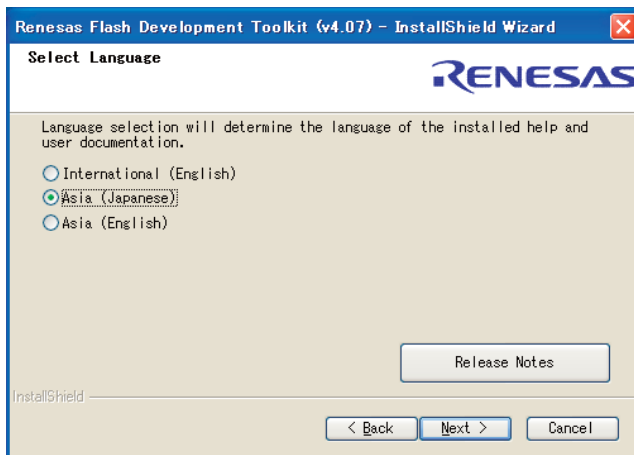


- Click the **OK** button.

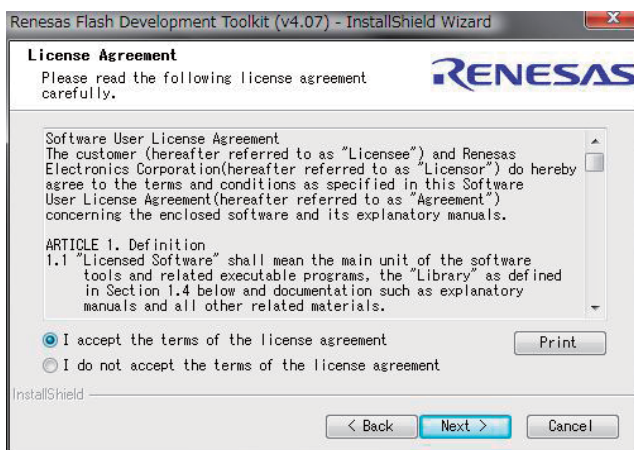
The message “Welcome to the InstallShield Wizard for Renesas Flash Development Toolkit (v4.07)” is displayed.



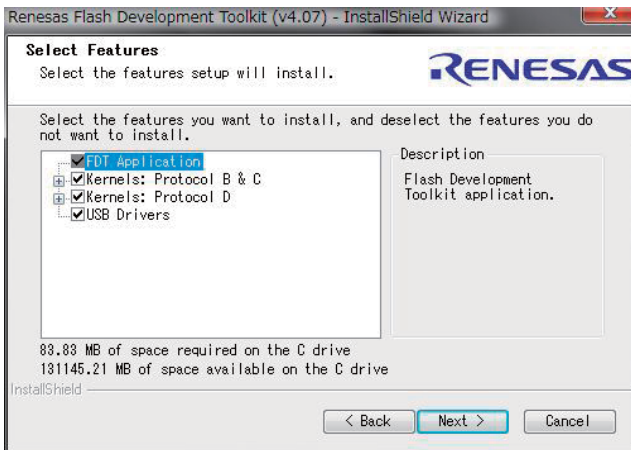
- Click the **Next** button.
- Select the language to be used in the Select Language screen, and then click the **Next** button.



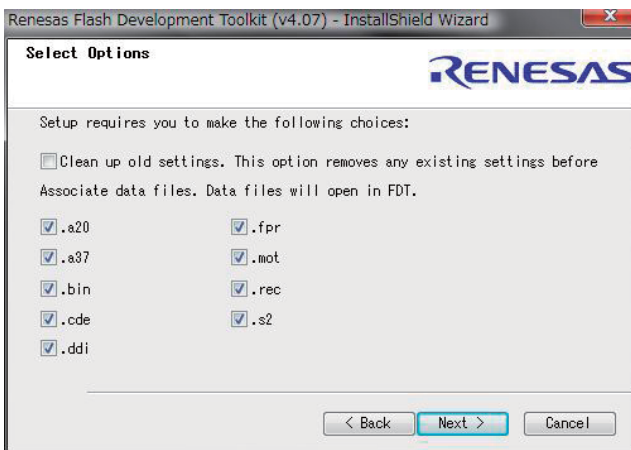
- Select “I accept the terms of the license agreement” in the License Agreement screen, and then click the **Next** button.



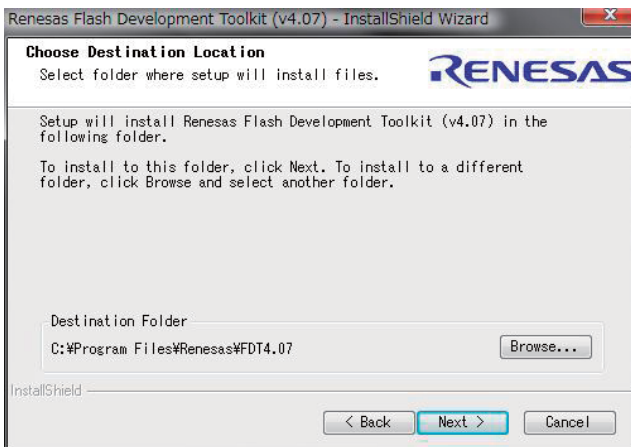
6. Click the **Next** button in the Select Features screen.



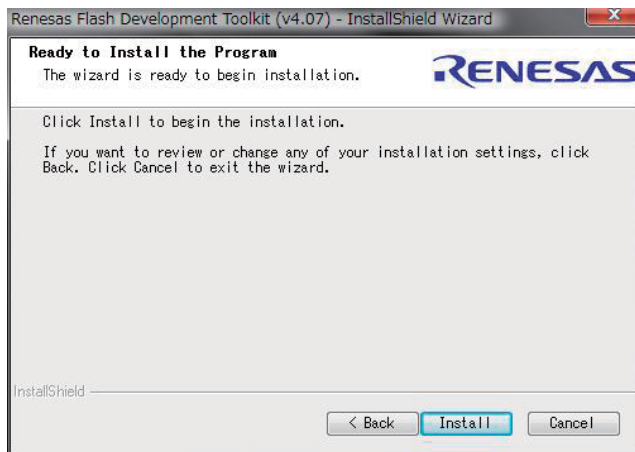
7. Check that “.mot” is selected in the Select Options screen, and then click the **Next** button.



8. Click the **Next** button in the Choose Destination Location screen.



- Click the **Install** button in the Ready to Install the Program screen.
The installation is performed.

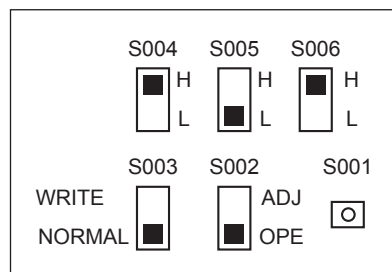


3-3-3. Writing of Firmware

- Set the switch on the EX-1089 board as follows depending on the CPU to be written.

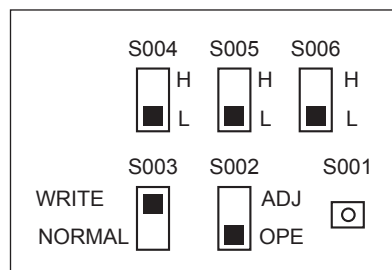
Motor CPU (IC1010/CC-101 board)

S002: OPE
S003: NORMAL
S004: H
S005: L
S006: H



System CPU (IC1009/CC-101 board)

S002: OPE
S003: WRITE
S004: L
S005: L
S006: L



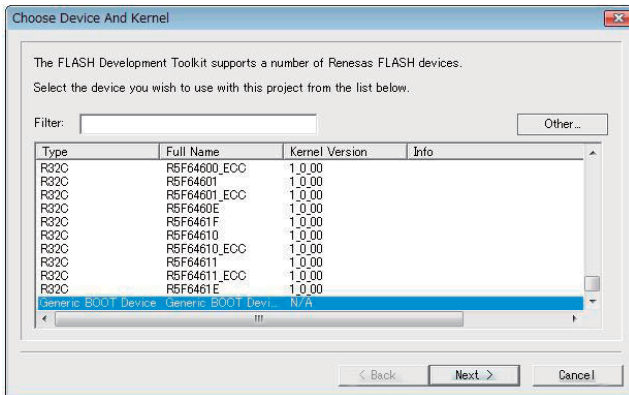
- Start the writing tool on the PC by selecting Start menu → “Renesas” → “Flash Development Toolkit 4.07” → “Flash Development Toolkit 4.07 Basic”.

Note

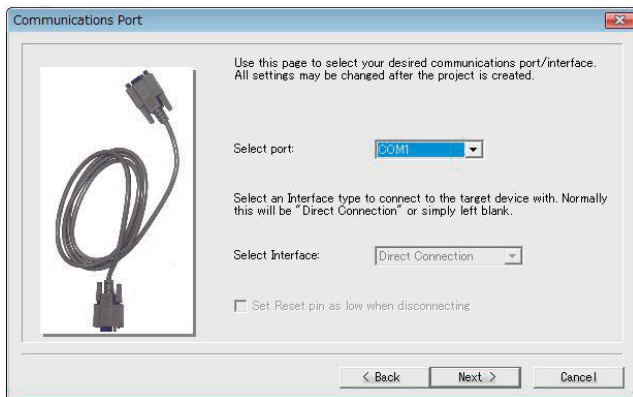
Do not select Flash Development Toolkit 4.07.

- Check that the connection between this unit and the equipment is correct, the power of this unit is turned on and the switch setting is correct.

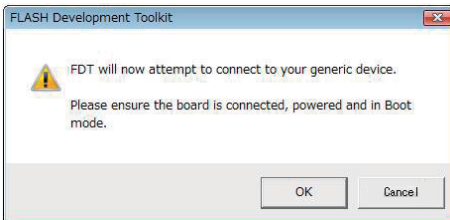
4. Select “Generic BOOT Device” in the device and kernel selection screen, and then click the **Next** button.



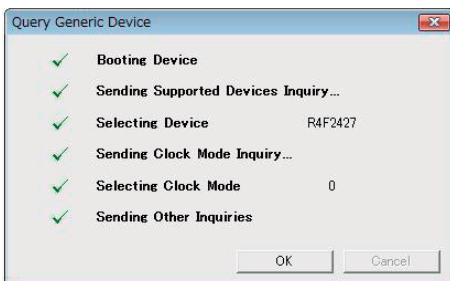
5. Select the COM port to which the VISCA cable is connected in the communication port screen, and then click the **Next** button.



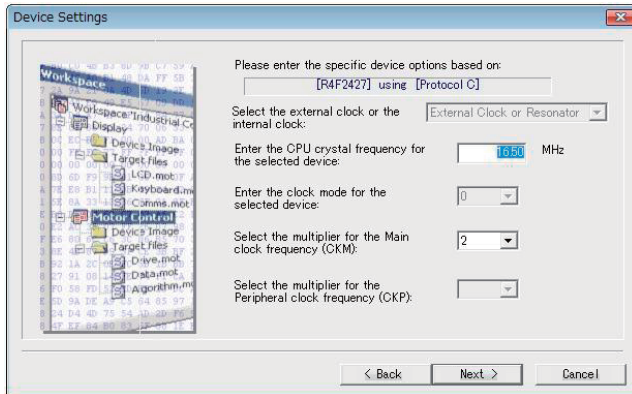
6. The caution screen as illustrated below is displayed, and then click the **OK** button.



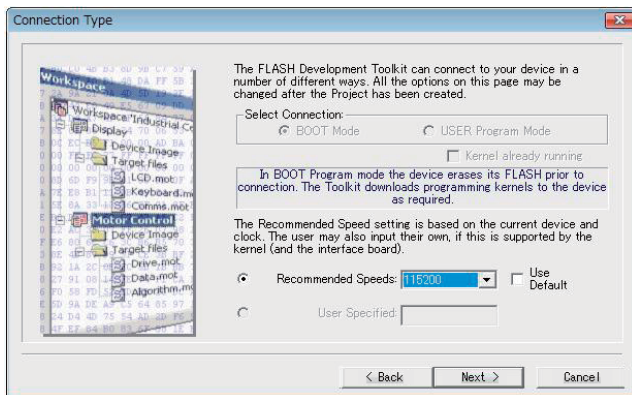
The query generic device screen is displayed.



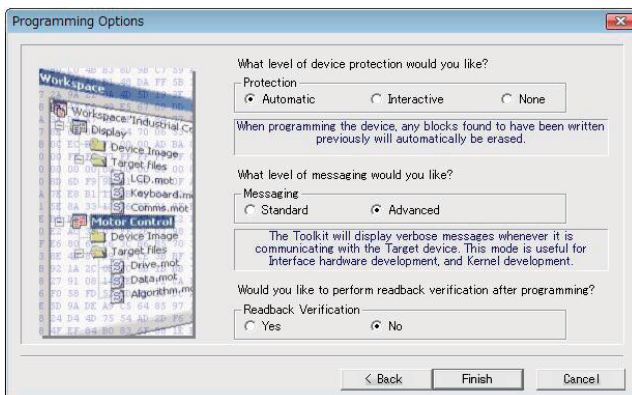
7. Check that the check mark is placed in all items, and then click the **OK** button.
The device settings screen is displayed.



8. Set the device setting screen as follows, and then click the **Next** button.
 - Enter the CPU crystal frequency for the selected device: 16.50
 - Select the multiplier for Main clock frequency (CKM): 2
 The connection type screen is displayed.



9. Set the connection type screen as follows, and then click the **Next** button.
 - Recommended speed: 115200
 - Uncheck the check box of “Use Default”.
 The writing option screen is displayed.

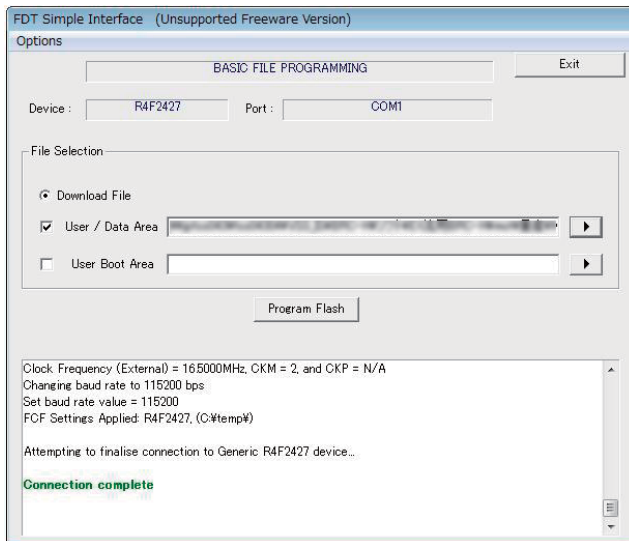


10. Set the writing option screen as follows, and then click the **Finish** button.

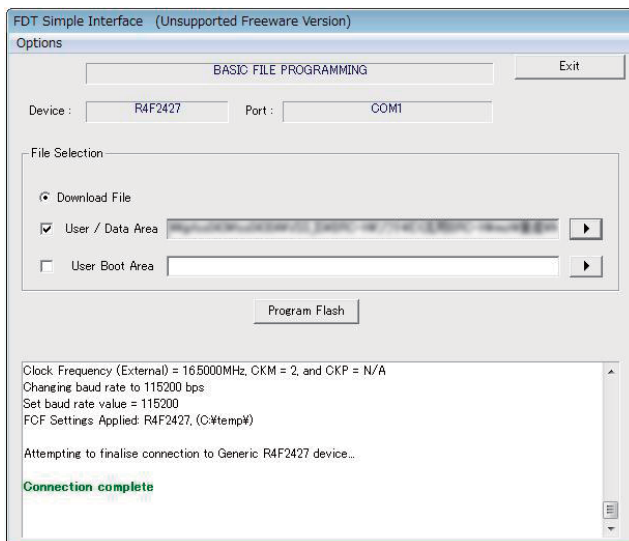
- Protection: Automatic
- Messaging: Advanced
- Readback Verification: No

The FDT Simple Interface screen is displayed.

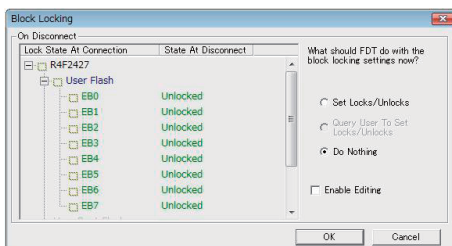
11. Select “Option” from the menu bar, and place the check mark next to “Automatic disconnection” and “All delete + download”.



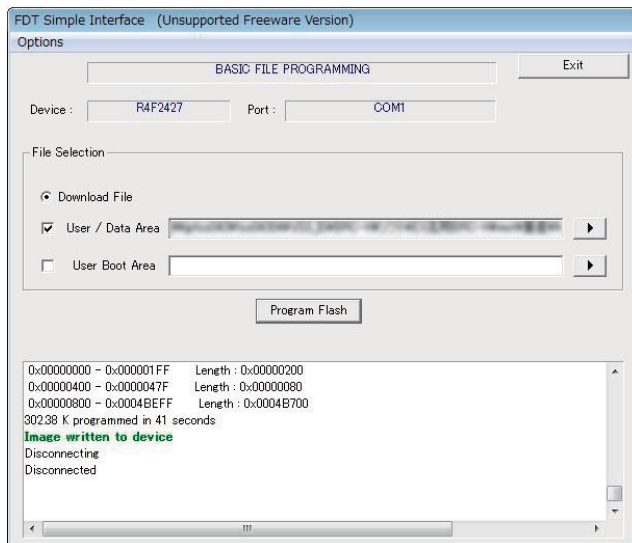
12. Place a check mark in the “User/Data Area” check box in the FDT Simple Interface screen, and then select the file (mot) to be written.



13. Click the **Program Flash** button. The writing is started and “Block locking” screen is displayed.



14. Check that “Do Nothing” is selected, and then click the **OK** button.
After the completion, the “Image written to device” message is displayed in the text box in the lower area of screen.



15. Click the **Exit** button in the upper right area of screen.
The writing tool is completed.

3-3-4. Preparation for Writing FPGA

Write the firmware of FPGA (IC1002) mounted on the CC-101 board.

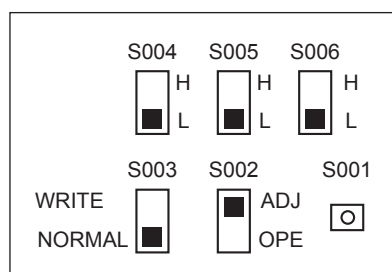
Tools

- PC: OS: Windows XP/Vista
(In the case of using BYTE BLASTERII, parallel interface equipped (built-in in PC only))
- FPGA writing cable: USB BLASTER REV C or BYTE BLASTER II manufactured by ALTERA
- FPGA writing software: Quartus II PROGRAMMER 10.1 SP 1 or later
(Download from the ALTERA's HP.)
- Writing file (rocky3_vxxxx_MP_*****.jic)
Note For obtaining the writing file, contact your local Sony Sales Office/Service Center.

3-3-5. Writing of FPGA

1. Set the slot of the EX-1089 board as follows.

S002: ADJ
S003: NORMAL
S004: L
S005: L
S006: L

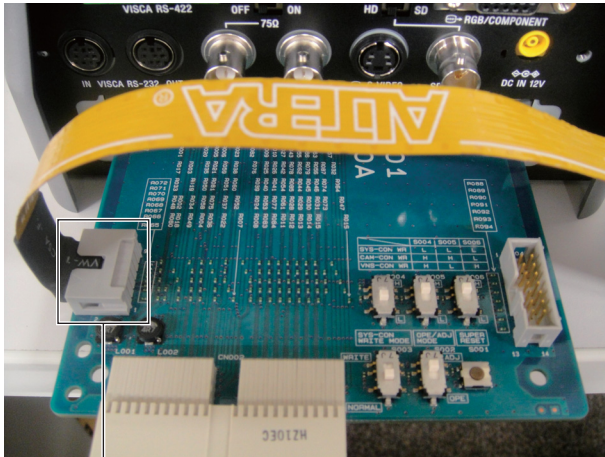


2. Check that the direction of the FPGA writing cable connected to the connector (CN003) on the EX-1089 board is correct.

Note

The following figure shows the USB BLASTER.

Insert it so that the cable faces upward.

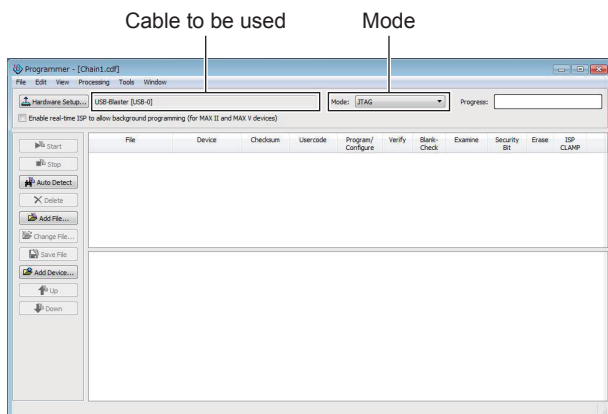


CN003

3. Turn on the power of this unit.

Notes

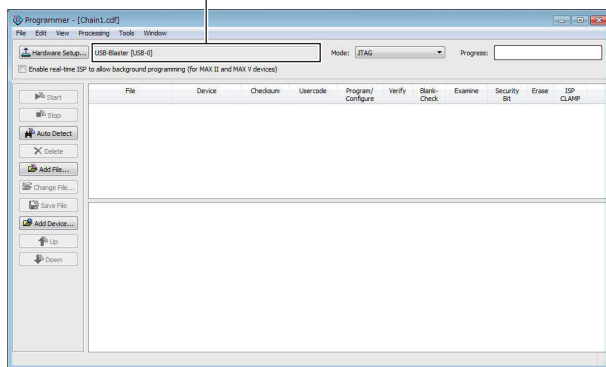
- When using the USB BLASTER REV C as a FPGA writing cable, be sure to turn on the power of this unit after turning on the power of the PC, and turn off the power of the PC after turning off the power of this unit. Otherwise, the USB BLASTER REV C may be broken.
 - Use REV C for USB BLASTER.
4. Start Quartus II PROGRAMMER on the PC.



5. Select “JTAG” in the Mode box.

6. Check that the cable to be used is displayed on the right side of Hardware Setup.

Cable to be used



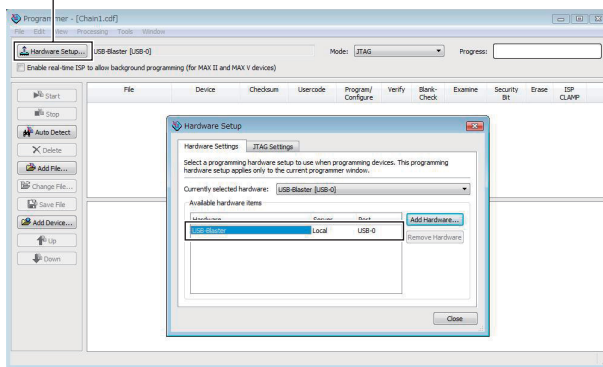
7. If the cable display is different, perform the setting in the following procedure.
Setting example in the case of using the USB BLASTER

- (1) Connect the USB BLASTER to the USB connector on the PC.

- (2) Click the **Hardware Setup...** button.

The Hardware Setup screen is displayed.

Hardware Setup... button



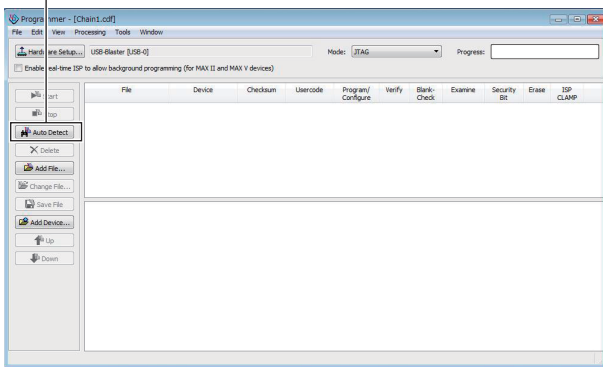
- (3) Check that “USB-Blaster” is displayed in the Available hardware items box, and then double-click “USB-Blaster”.

“USB-Blaster” is displayed in the Currently selected hardware box.

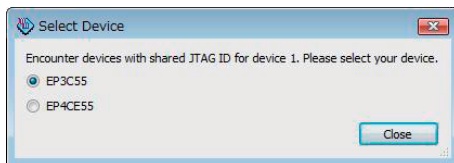
- (4) Click the **Close** button.

8. Click the **Auto Detect** button in the side menu.

Auto Detect button



The Select Device screen is displayed.

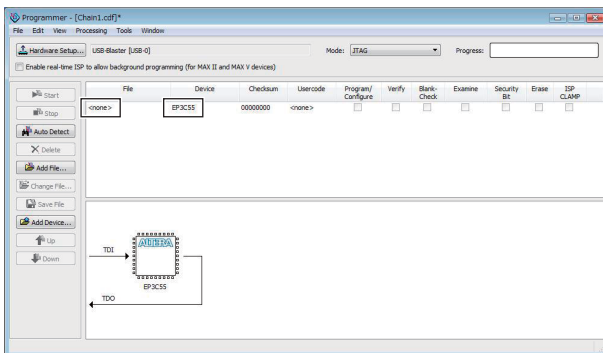


9. Check that EP3C55 is recognized as Device 1, and then click the **Close** button.

Note

If it is not recognized, turn off the power of this unit. After checking that the connection is correct, start over from step 3.

10. Check that EP3C55 is displayed in the first row of the Device column.



11. Double-click <none> displayed in the first row of the File column.

The File selection screen is displayed.

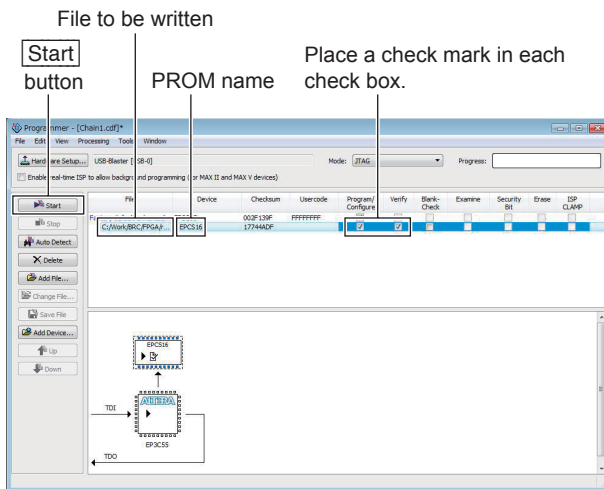
12. Select the FPGA file to be written.

File name: rocky3_vxxxx_MP_*****.jic

Note

“vxxxx” represents the version information and “*****” represents the date (yyymmdd).

13. Check that the selected file and PROM (EPCS16) names are displayed in the second row.



14. Place a check mark in the Program/Configure check box in the second row.

Note

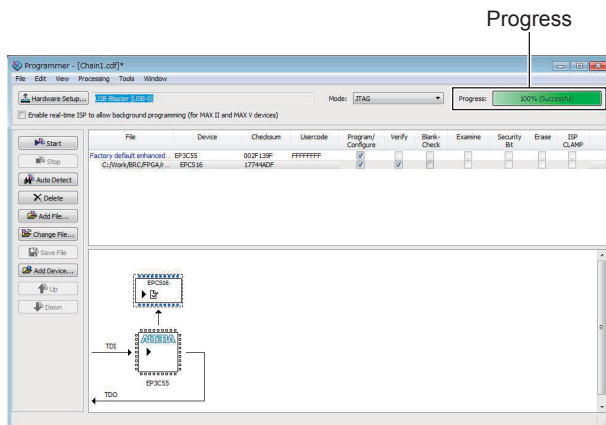
The check box in the first row is also checked at the same time.

15. Place a check mark in the Verify check box in the second row.

16. Click the **Start** button in the side menu.

The writing is started.

After the writing is completed, "100% (Successful)" is displayed in "Progress".



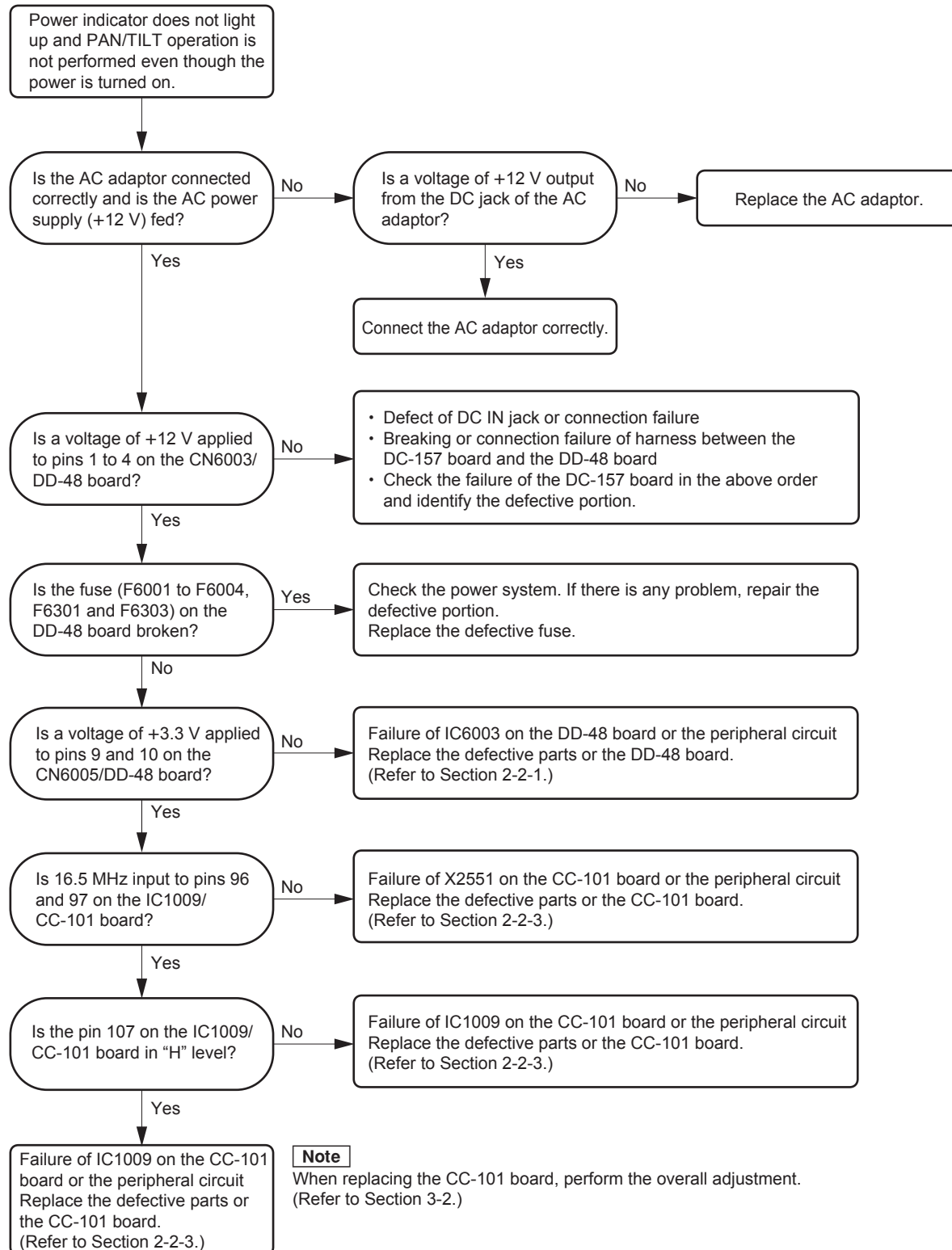
17. Turn off the power of this unit.

Section 4

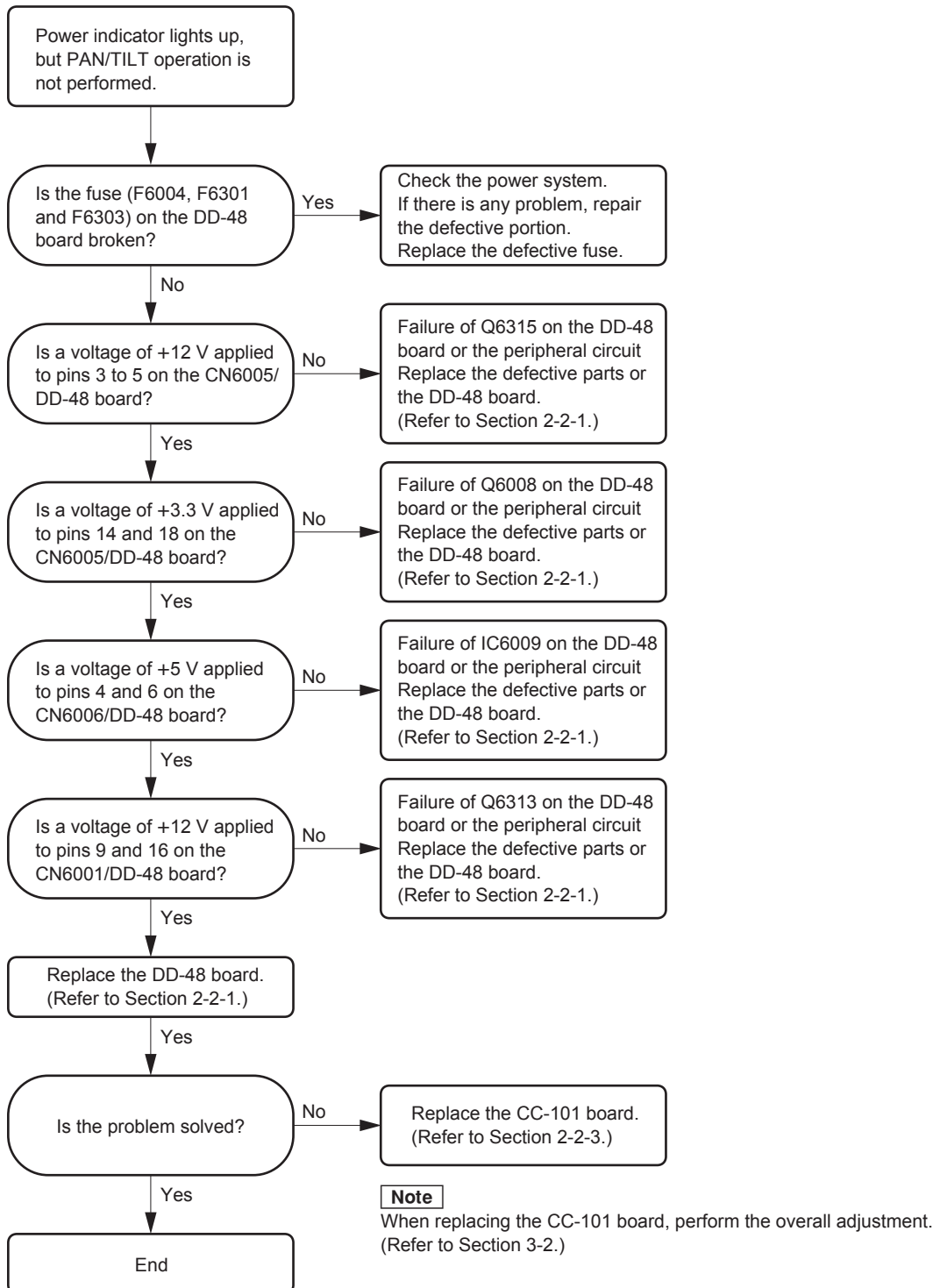
Troubleshooting

4-1. Power Trouble

4-1-1. Power Indicator does not Light Up and PAN/TILT Operation Is not Performed even though the Power Is Turned On

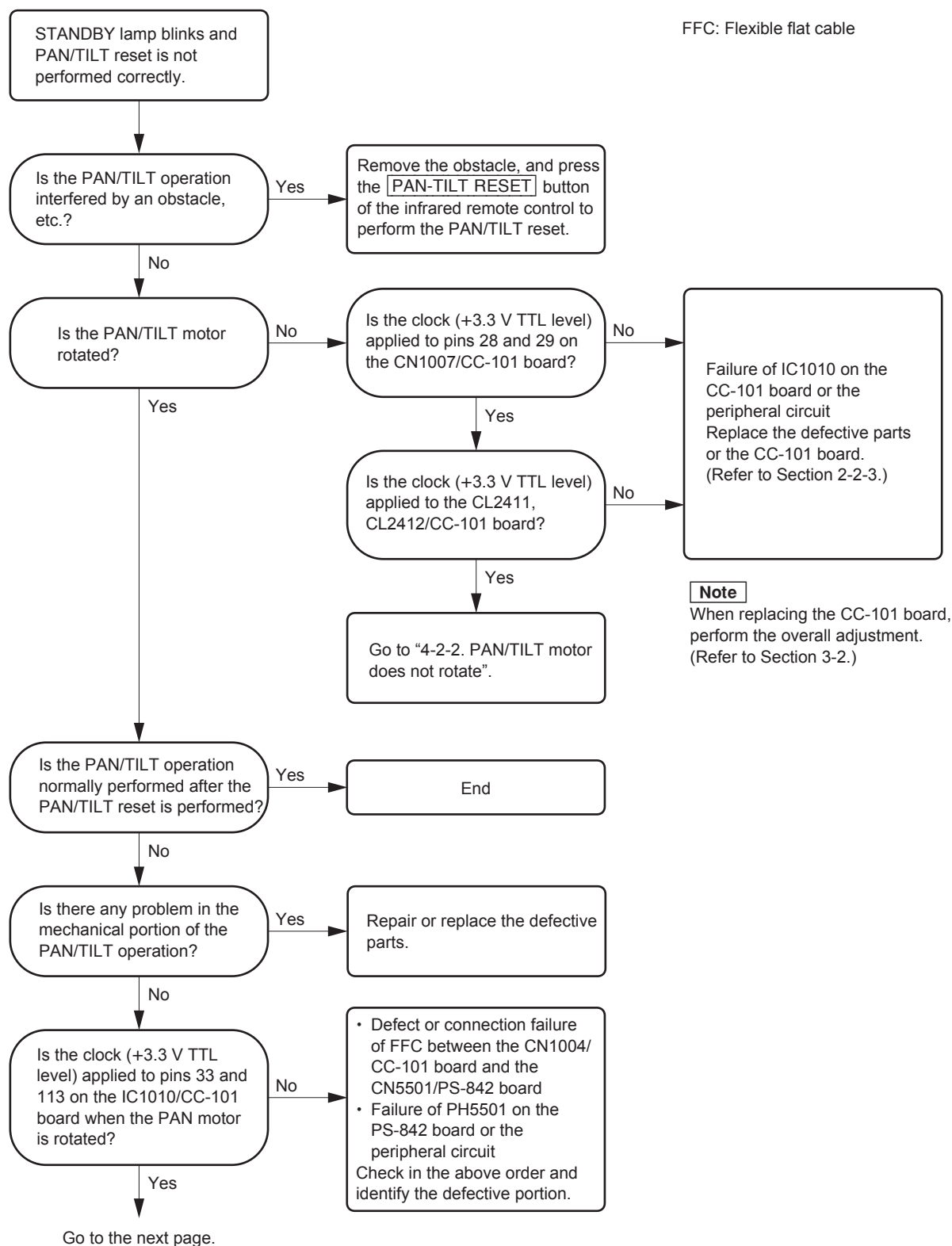


4-1-2. Power Indicator Lights Up, but PAN/TILT Operation Is not Performed

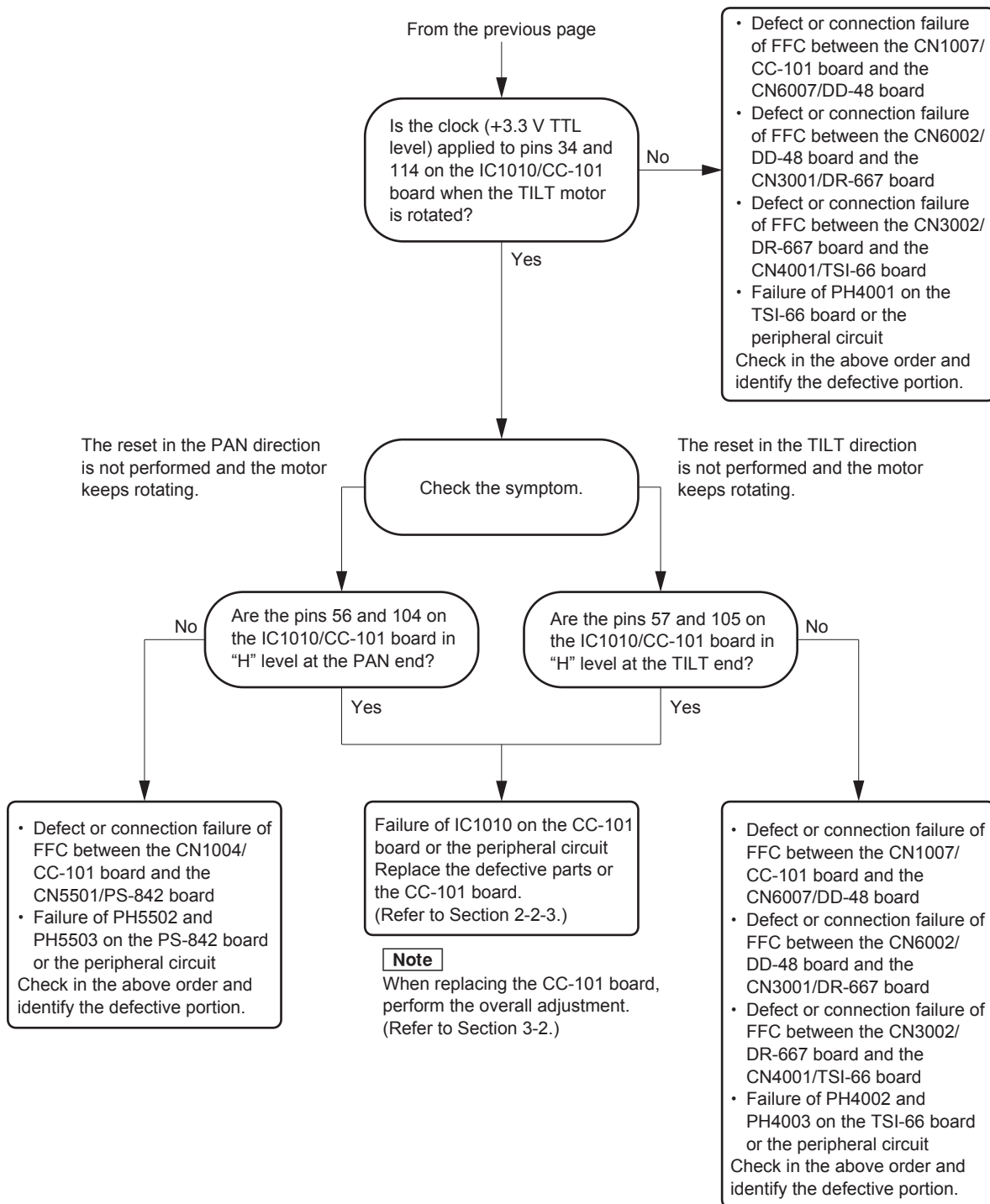


4-2. PAN/TILT - Related Trouble

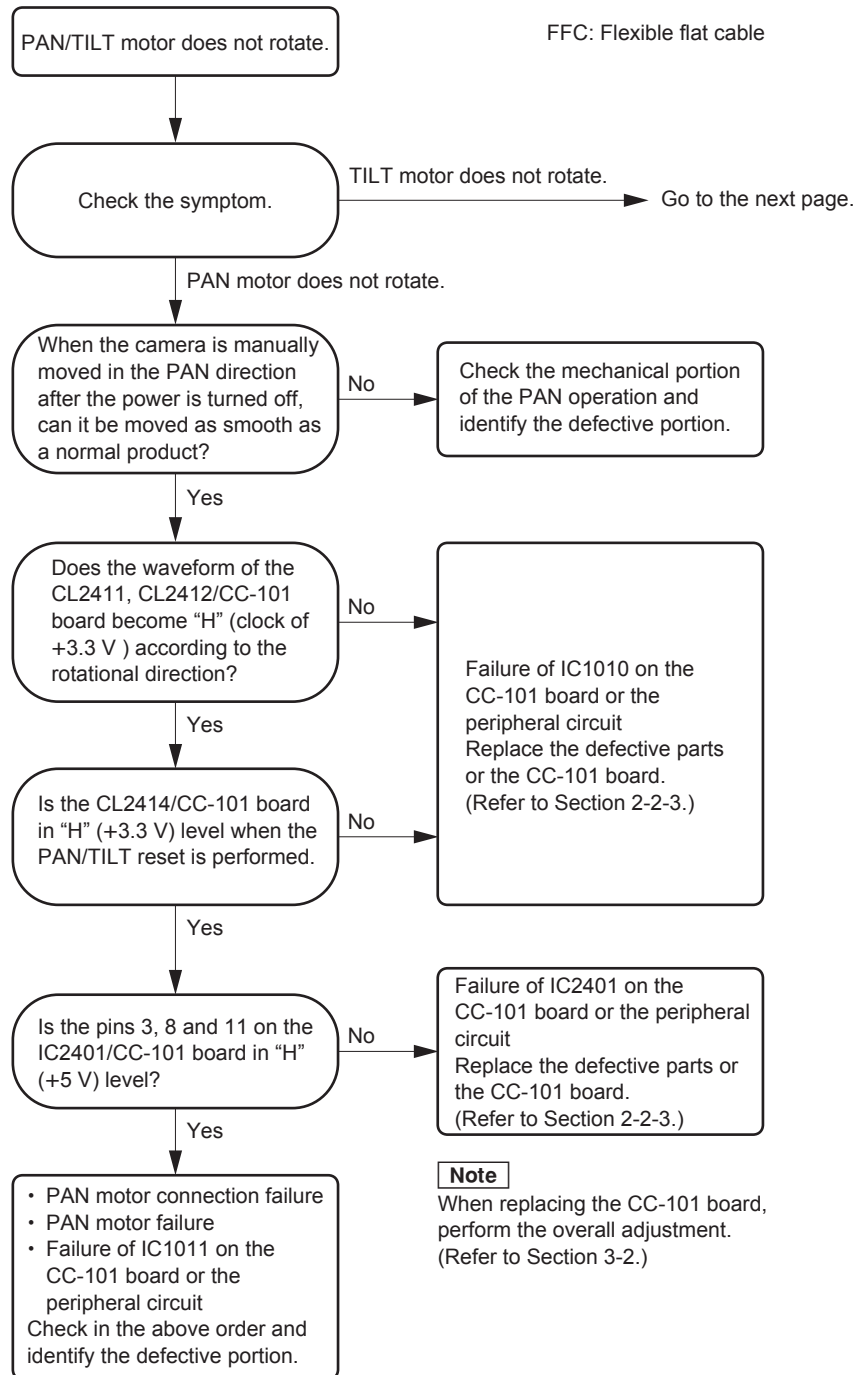
4-2-1. STANDBY Lamp Blinks and PAN/TILT Reset Is not Performed Correctly



FFC: Flexible flat cable

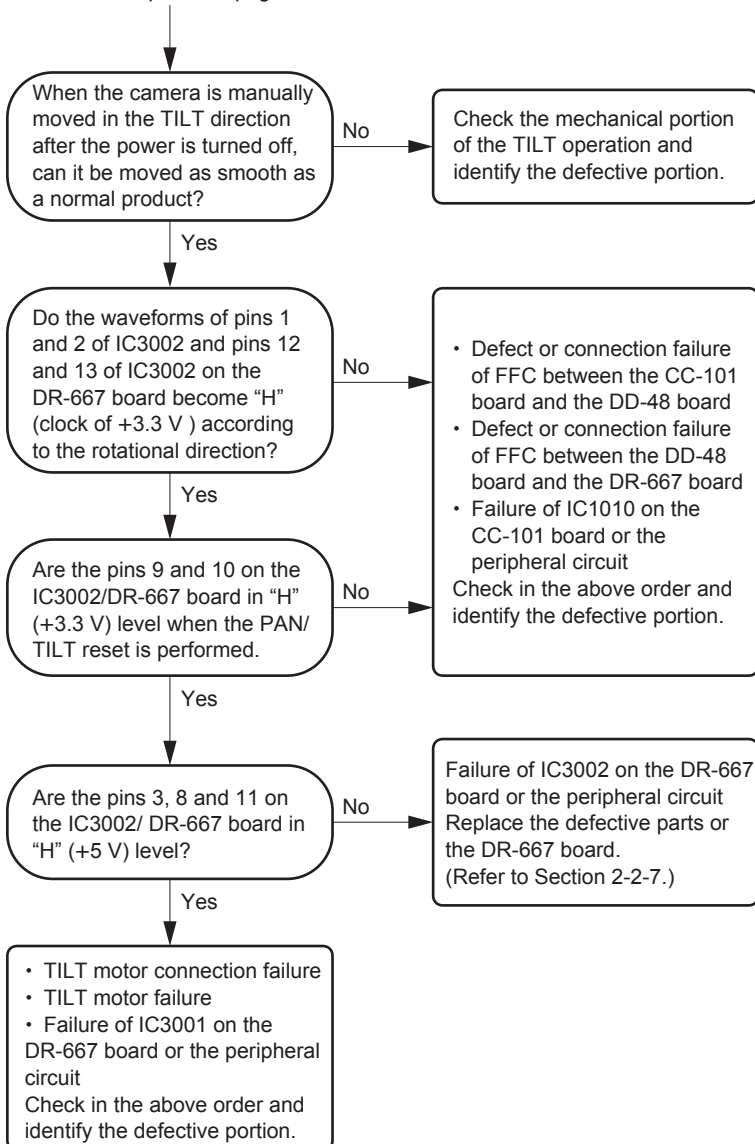


4-2-2. PAN/TILT Motor does not Rotate



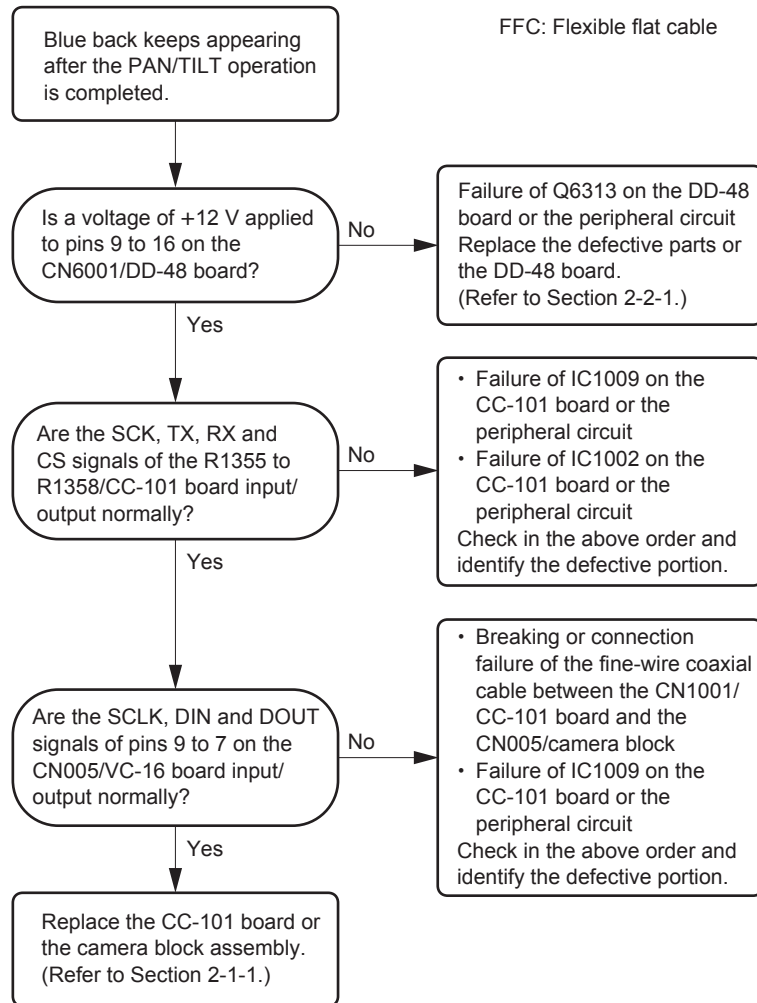
From the previous page

FFC: Flexible flat cable



4-3. Image-Related Trouble

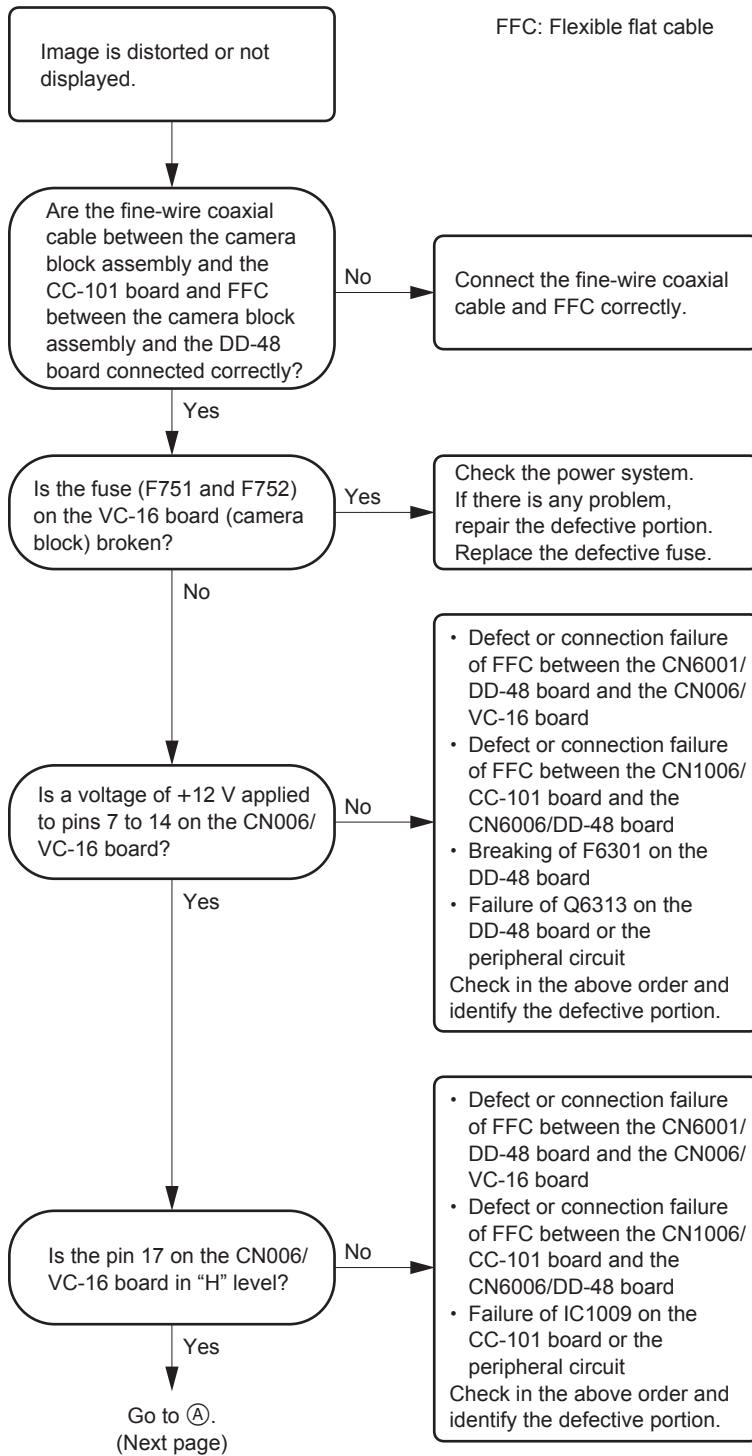
4-3-1. Blue Back Keeps Appearing after the PAN/TILT Operation Is Completed

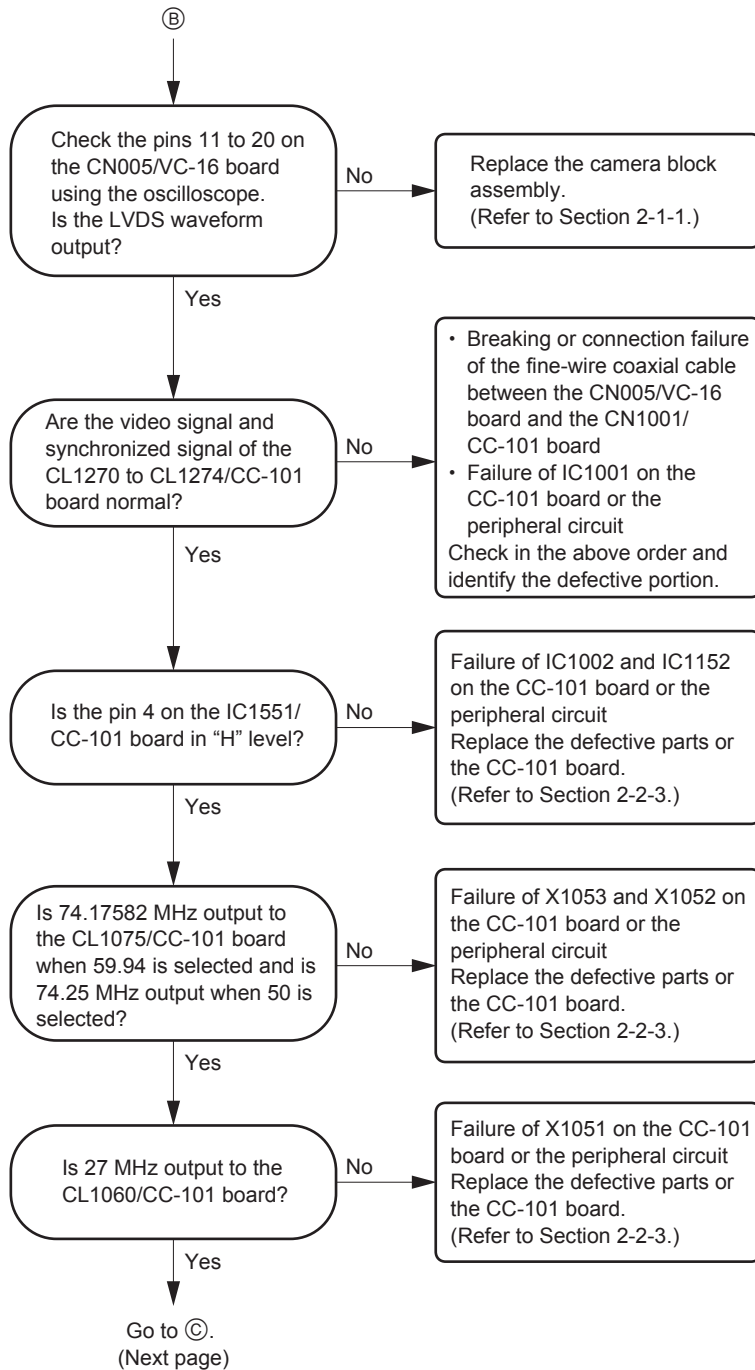


Note

When replacing the CC-101 board or the camera block assembly, perform the overall adjustment. (Refer to Section 3-2.)

4-3-2. Image Is Distorted or not Displayed





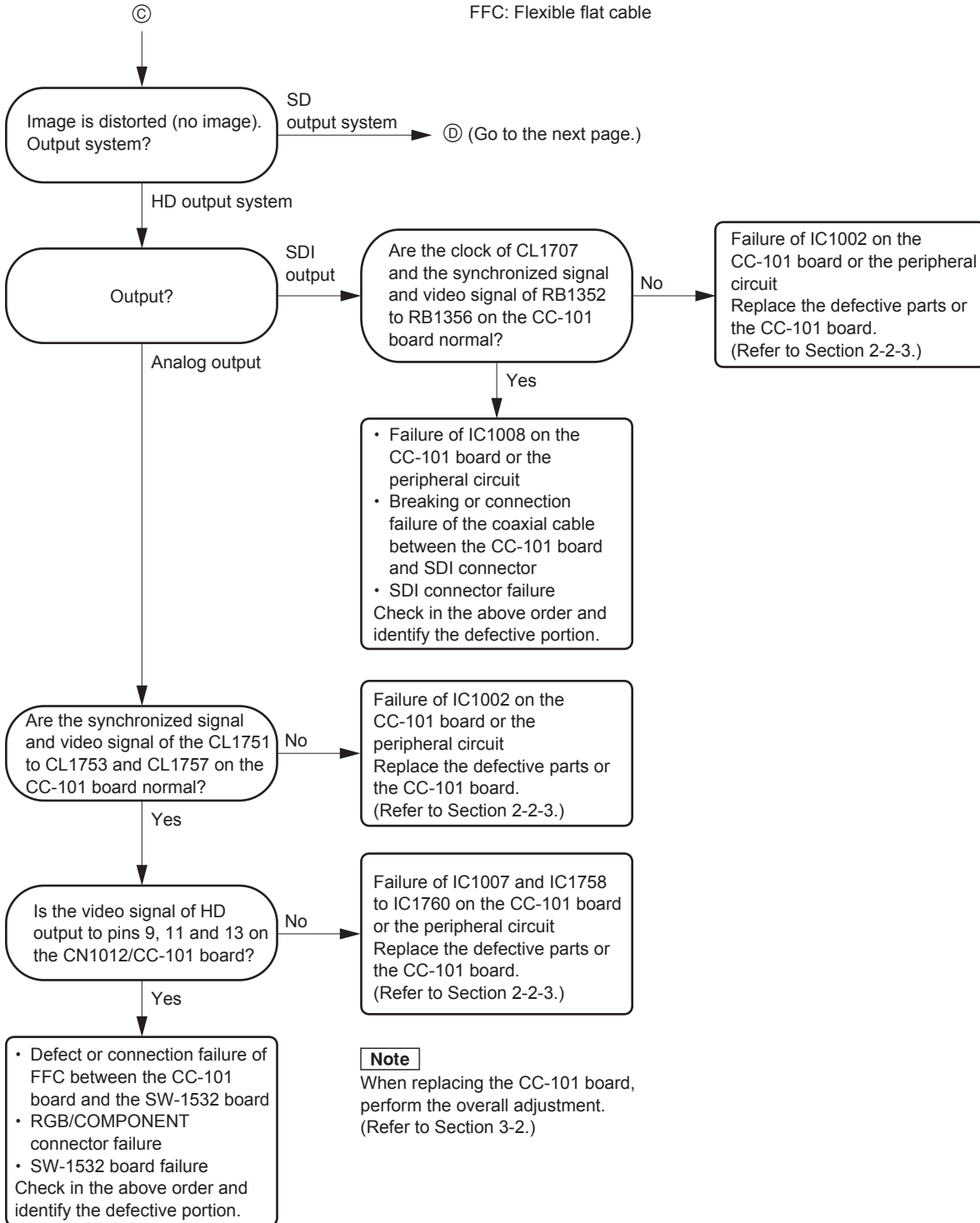
Note

When replacing the camera block assembly, perform the overall adjustment.
(Refer to Section 3-2.)

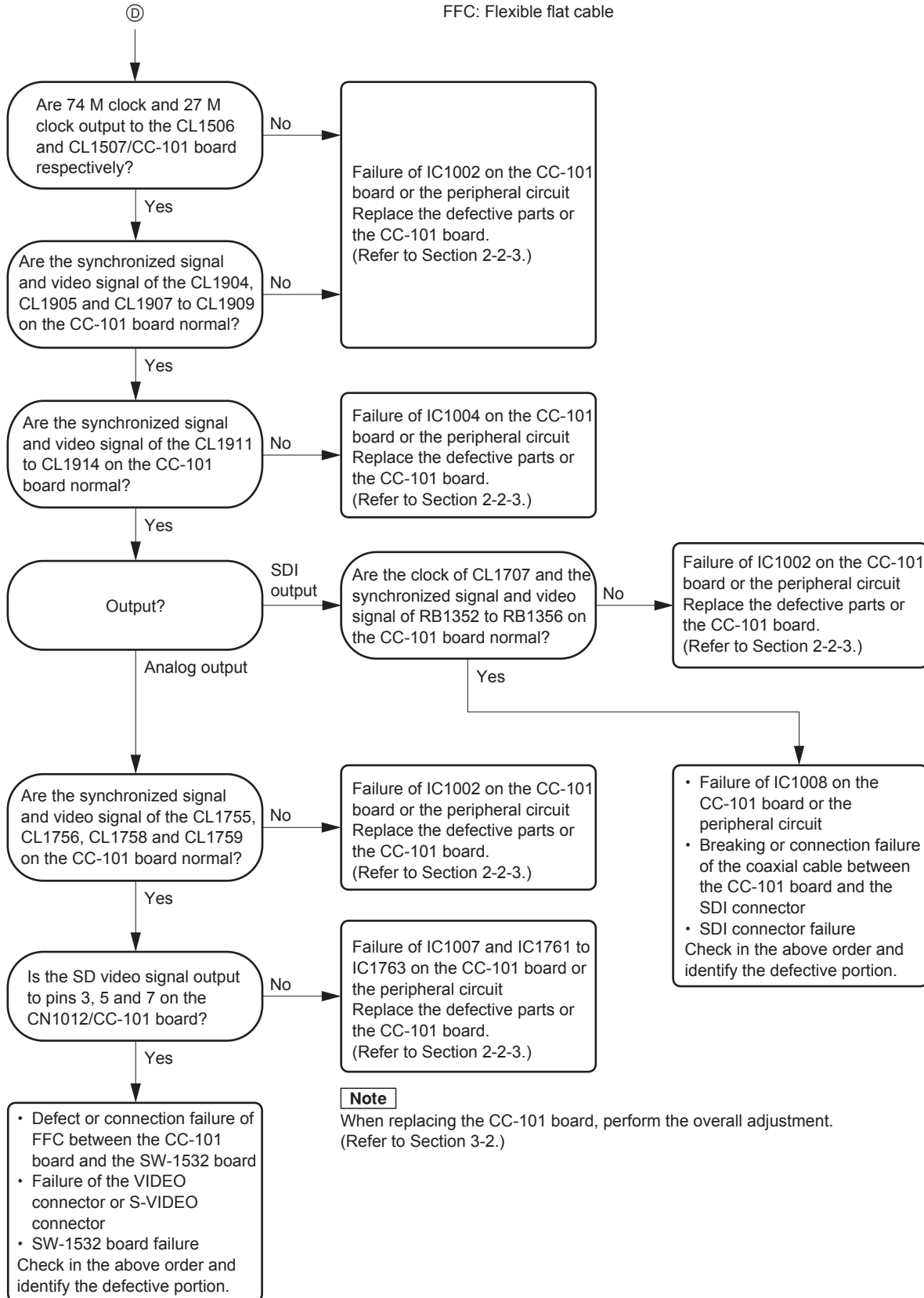
Note

When replacing the CC-101 board, perform the overall adjustment.
(Refer to Section 3-2.)

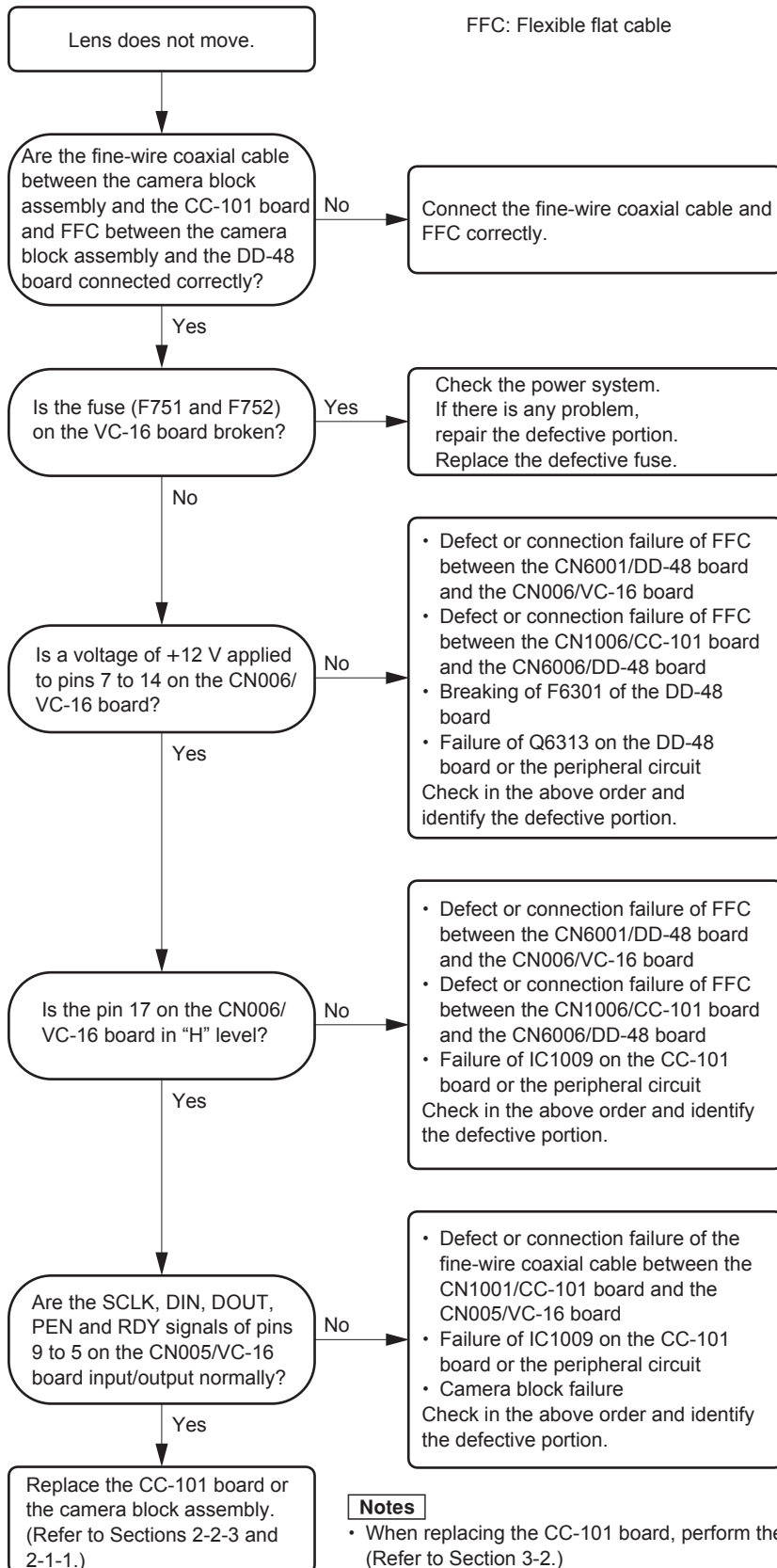
FFC: Flexible flat cable



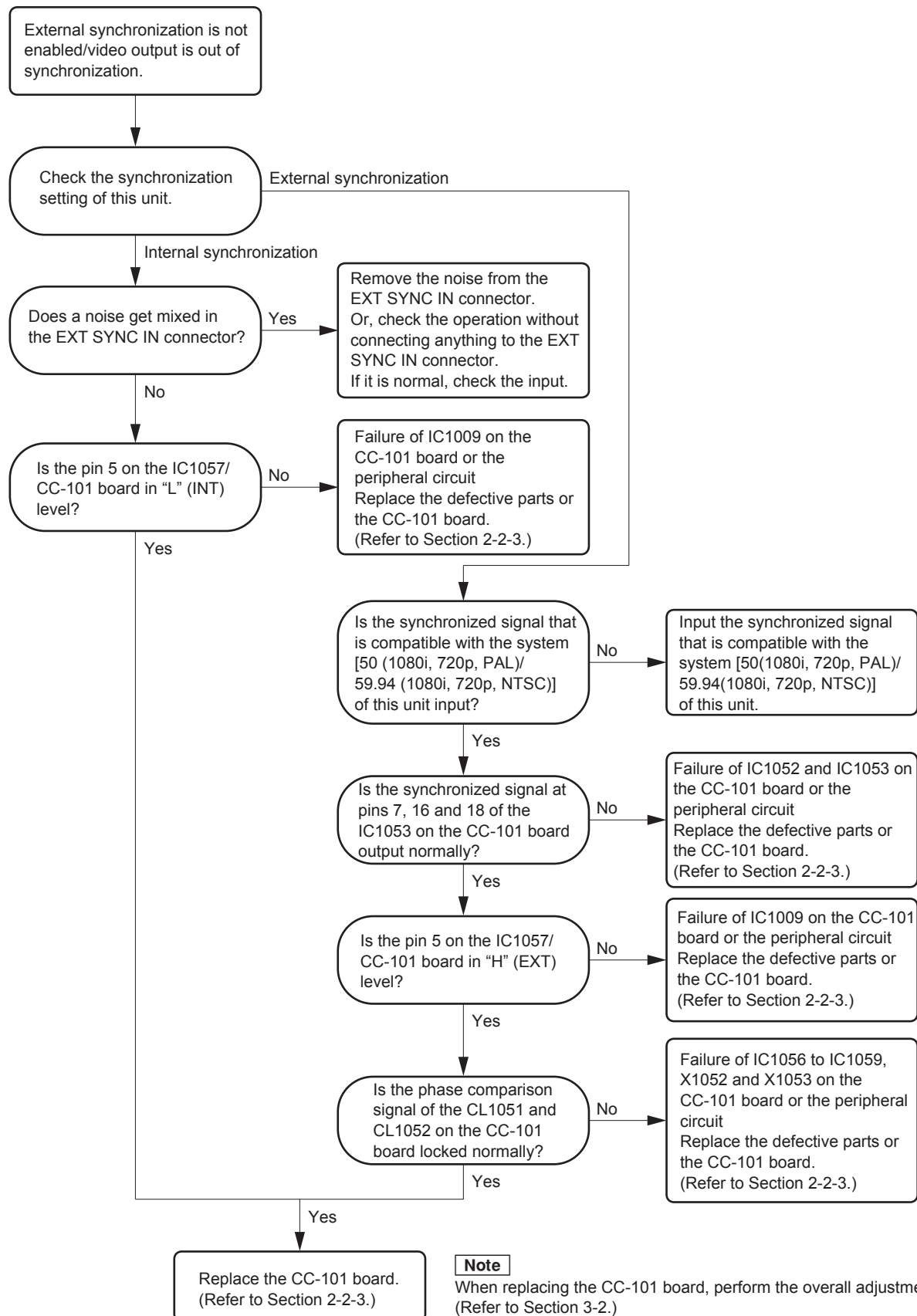
FFC: Flexible flat cable



4-3-3. Lens does not Move

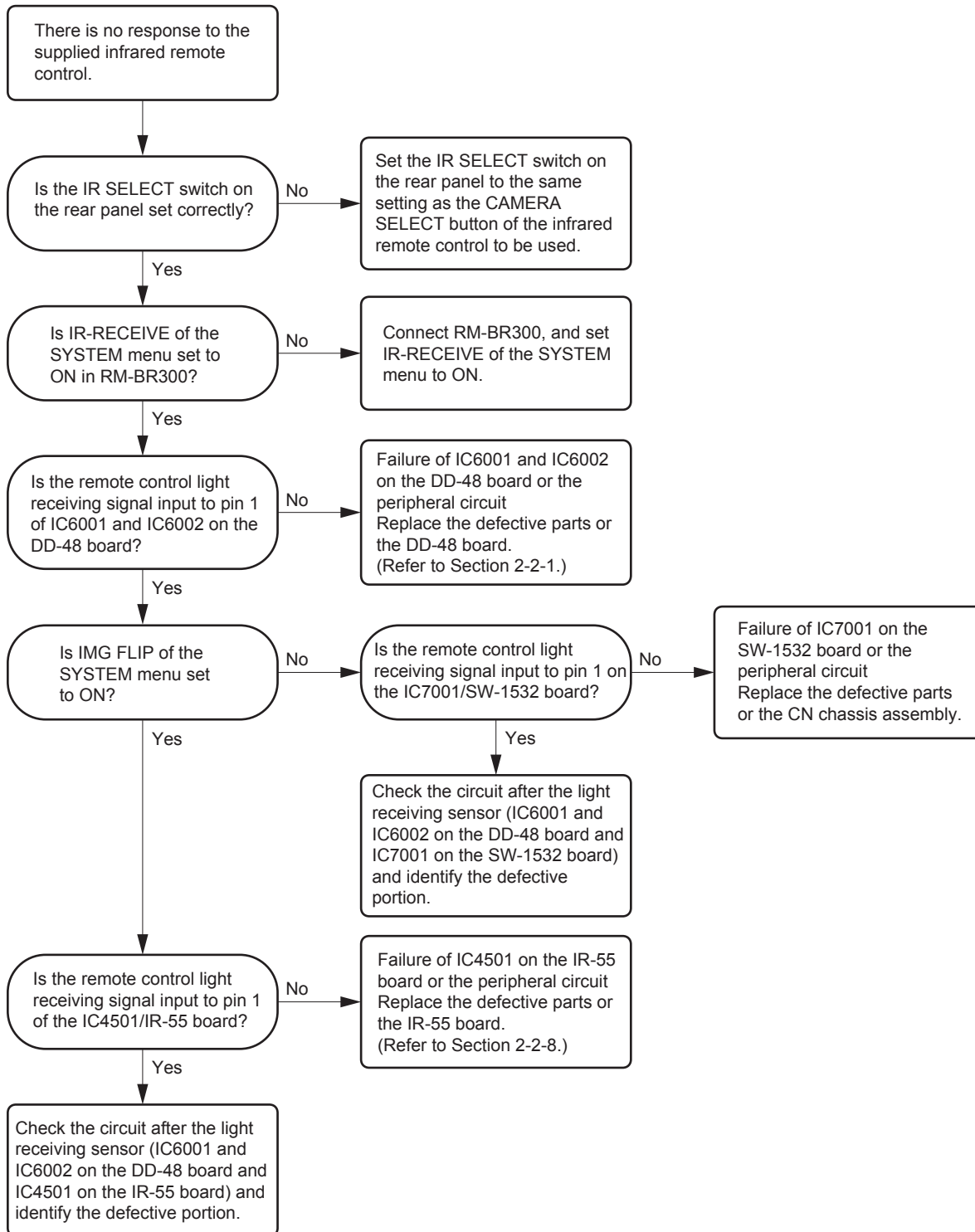


4-3-4. External Synchronization Is not Enabled/Video Output Is Out of Synchronization

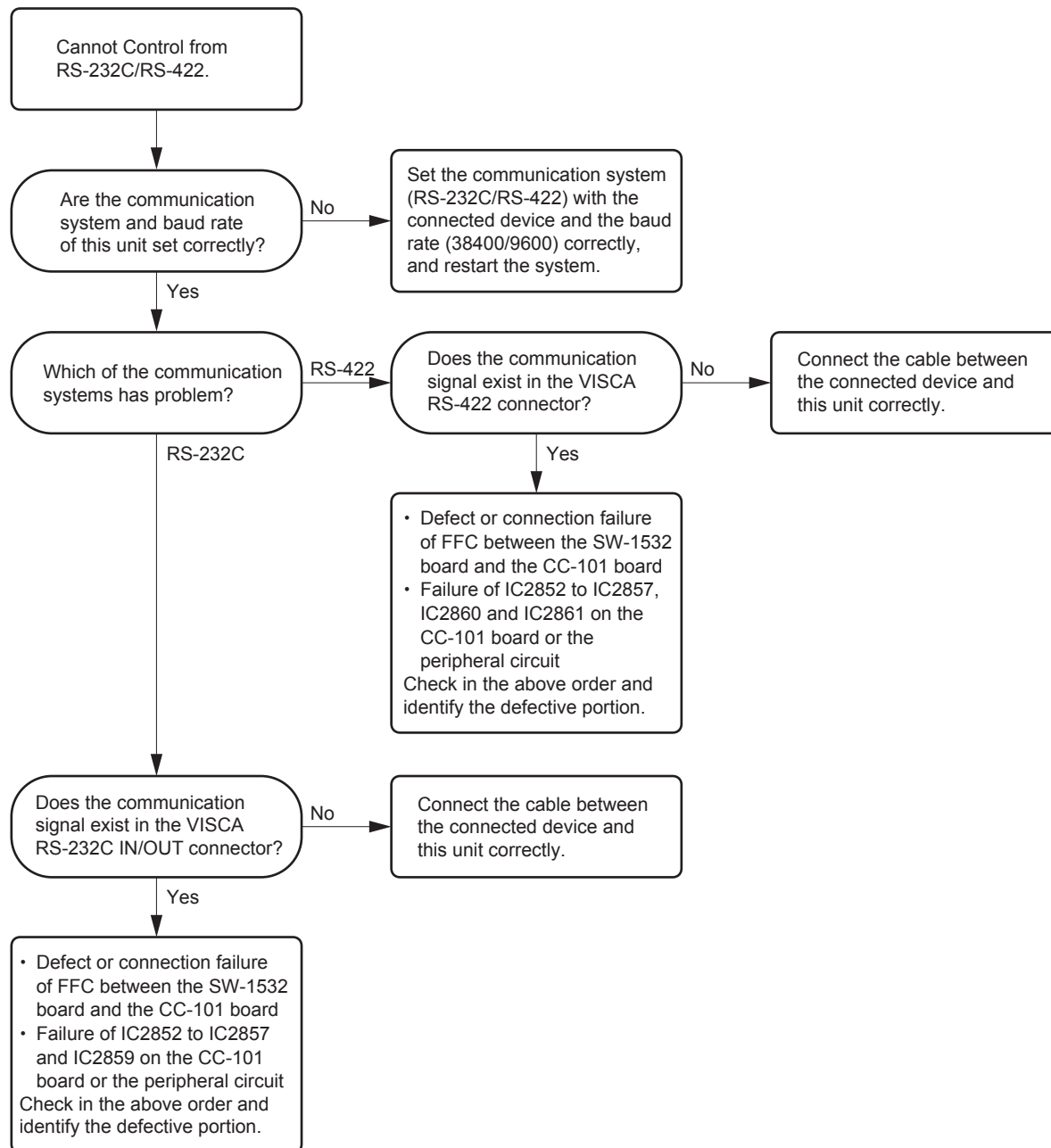


4-4. Communication-Related Trouble

4-4-1. There Is No Response to the Supplied Infrared Remote Control

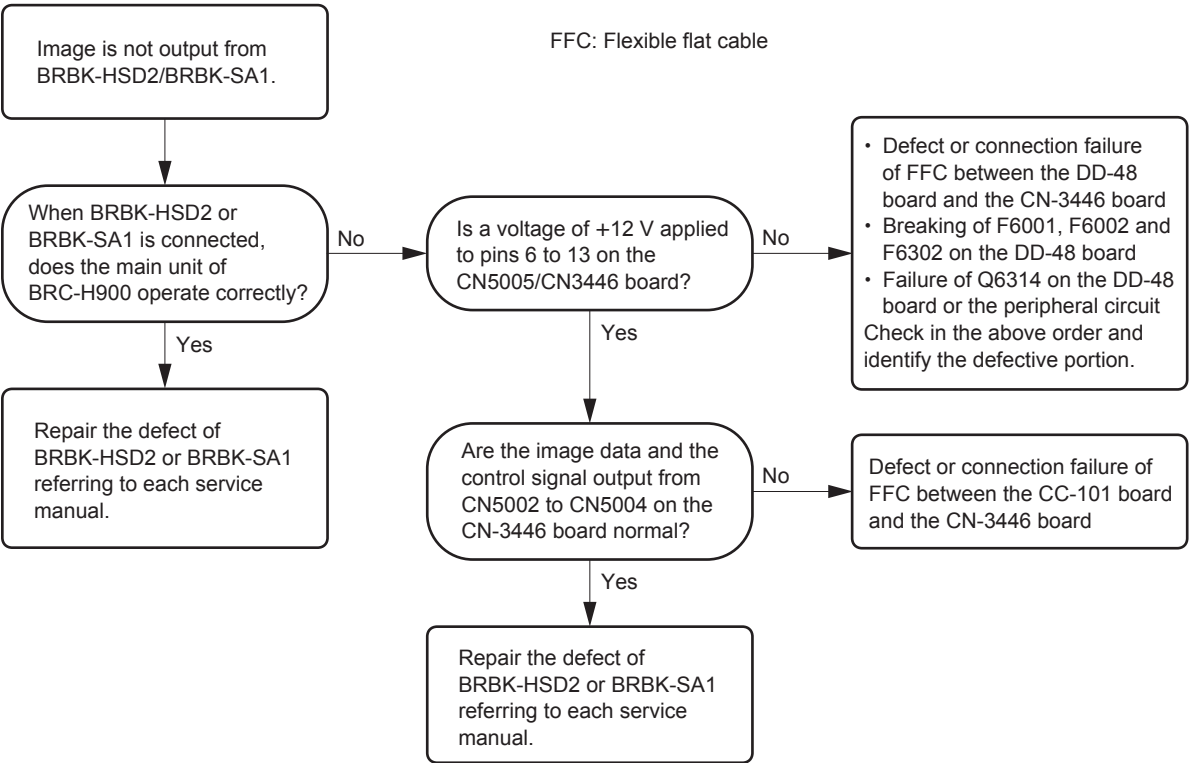


4-4-2. Cannot Control from RS-232C/RS-422

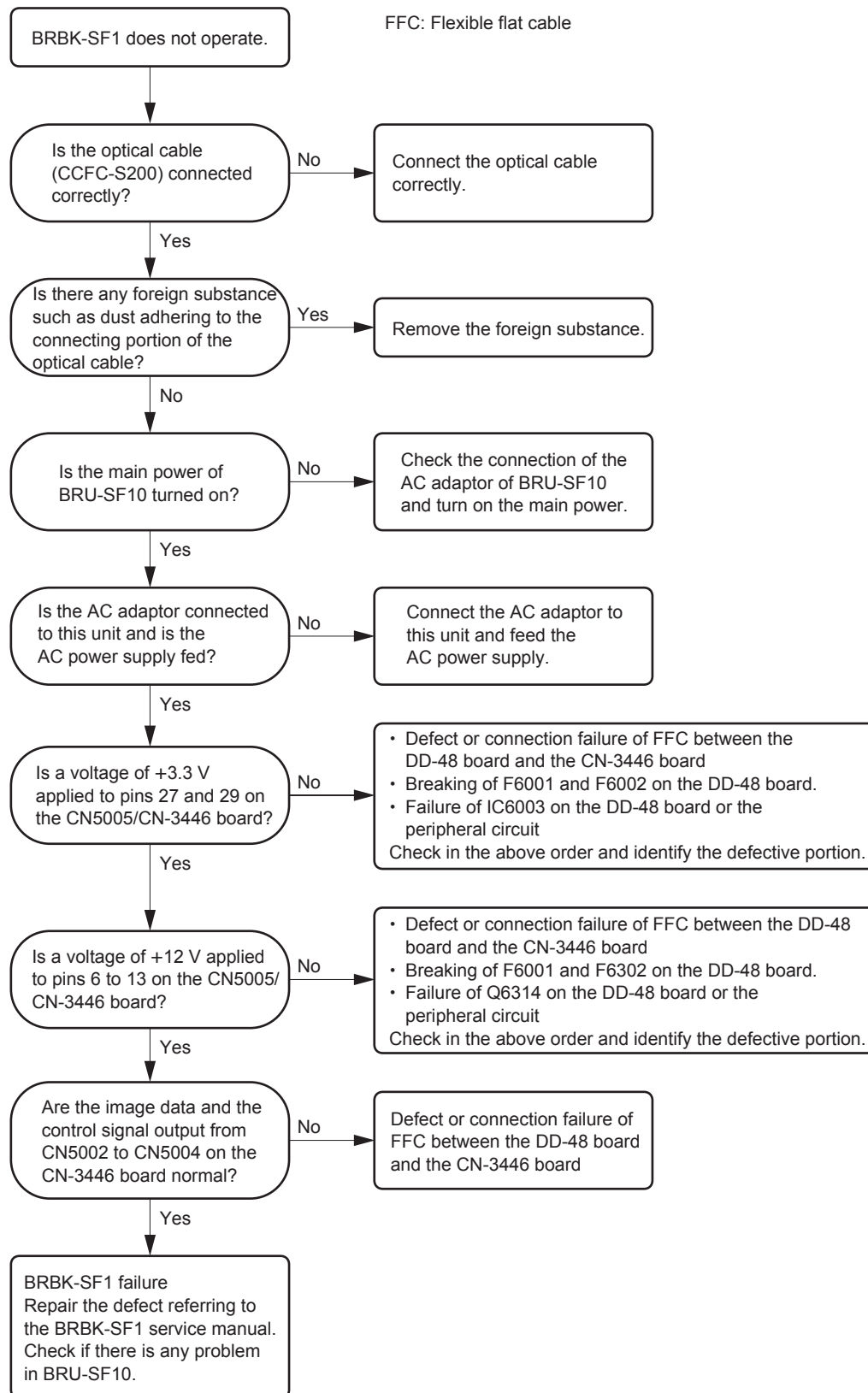


4-5. Trouble in Connecting the Option

4-5-1. Image Is not Output from BRBK-HSD2/BRBK-SA1



4-5-2. BRBK-SF1 does not Operate



Section 5

Circuit Description

5-1. Camera Block Assembly

The camera block assembly performs the zoom lens control and the camera video signal processing.

5-2. CC-101 Board

- The CC-101 board receives the video signal sent from a camera block assembly, processes it, and outputs an HD component/RGB signal, HD/SD-SDI signal, composite video signal, Y/C video signal, and card slot video signal.
- The CC-101 board makes a video output synchronize with an external video signal input.
- The CC-101 board mounts an oscillator that outputs the reference clock of the whole camera and supplies a reference clock to each block.
- The CC-101 board mounts system CPU that controls the whole camera. It also controls each block.
- The CC-101 board mounts motor CPU that controls a motor and down-converter.

5-2-1. Video Signal Processing Block (FPGA)

The video signal processing block receives a video signal from a camera block assembly, produces various sync signals, and mixes menu display characters. After that, it outputs video signals to an HD signal output block, SD signal output block, and option card block. A signal is supplied to the option card via a CN-3446 board. A color-bar signal is also generated in this block. Each mode is switched using system CPU.

5-2-2. HD Component/RGB Signal Output Block

The HD signal distributed in a video signal processing block produces an HD analog component/RGB signal using a video DA converter and outputs it through a low-pass filter and 75 Ω driver. The output signal is connected to the output connector on the SW-1532 board. The setting of this block is controlled by motor CPU.

5-2-3. SD Signal Output Block

The HD signal distributed in a video signal processing block is converted from the HD standard to the SD standard using a down-converter IC. After the converted signal passes through the video processing block again, it produces SD and Y/C signals using a video DA converter and outputs them through a low-pass filter and 75 Ω driver. The output signal is connected to the output connector on the SW-1532 board. The setting of this block is controlled by motor CPU.

5-2-4. HD/SD-SDI Signal Output Block

The HD/SD-SDI signal output block encodes the signal, distributed in a video signal processing block, to an SDI signal using an SDI serializer and outputs it. It outputs an HD-SDI or SD-SDI signal using an HD/SD selector switch on the SW-1532 board.

5-2-5. External Sync Processing Block

The external sync processing block extracts only a sync signal from the external video signal that is input from EXT SYNC IN (CN7007) on the SW-1532 board to the CC-101 board, inputs it to FPGA of a video signal processing block, and makes the input signal synchronize with the camera video signal of various signals.

5-2-6. Oscillator Block

The oscillator block outputs the reference clock of the whole camera. The output signal of this oscillator is adjusted using EVR so that it conforms to the standard of an output signal during factory setting. The adjusted value is stored in the memory of system CPU. The clock signal based on the output signal of this oscillator is supplied to the blocks and option card block on the CC-101 board. The oscillator block also produces a clock signal, with this clock signal as reference, using FPGA of a video signal processing block and supplies it to a camera block assembly.

5-2-7. Control CPU Block (System CPU)

The control CPU block performs the control of the whole camera such as interfacing with the outside, processing during start, or transmission of control signals to each block. The external control signal input from VISCA IN (CN7009) or VISCA RS-422 (CN7004) on the SW-1532 board is input via an RS-232C/RS-422 communication transmitting/receiving circuit. The signals from front, rear, and upper IR photo-sensors are also input to this block. On the basis of these signals, control signals are output to a camera block assembly, CC-101 board, a motor drive control CPU block, and option card to control the whole block. The switching of each mode is controlled based on the signals from the mode selector switch on the DD-48 board and various selector switches on the SW-1532 board. The control CPU block also controls the lighting of the POWER and STANDBY indicators on the front panel of this unit and the power supply. Only the power of this block is started when a camera is in the standby state. When a POWER ON command is input from the outside, a power start control signal is output to a DC-DC converter block to start the power of each block. Moreover, the control CPU block mounts memory that saves an adjusted value or preset data.

5-2-8. Motor Drive Control CPU Block (Motor CPU)

The motor drive control CPU block mainly controls pan and tilt motors. It also controls HD component/RGB signal output and SD signal output DA converter blocks and a down-converter circuit. The driving of pan and tilt motors is controlled by the signal sent from a control CPU block. Driving in the pan direction is performed by outputting a control signal to a pan motor driver block according to the signal from a pan-direction drive motor and the endpoint signal output from the PS-842 board. Driving in the tilt direction is performed by outputting a control signal to a tilt motor driver block according to the signal sent from the tilt-direction drive motor, mounted on the DR-667 board, via a DD-48 board and the endpoint signal sent from the TSI-66 board.

5-2-9. Pan Motor Driver Block

The pan motor drive block converts the pan-direction motor control signal, output from a motor drive control CPU block, into a signal that drives a pan motor and then drives a motor.

5-3. DD-48 Board

The DC power input from an AC adaptor through the DC-157 board is converted into various voltages using a switching regulator. For camera block assembly power, option card slot power (partial), and motor drive power (partial), the power from an AC adaptor is turned on and off using a switch by control CPU. For power supplies other than described above, the DC power from an AC adaptor is converted into various voltages using a switching regulator and supplied to each board (CC-101, CN-3446, and DR-667 boards.) In the standby state, by the power control signal from the control CPU on the CC-101 board, the DD-48 board controls so that only the power and external communication power which control CPU uses are supplied. It mounts a switch, for switching each mode, which can be switched from the bottom. The switch signal is input to the control CPU on the CC-101 board. The DD-48 board also mounts POWER and STANDBY indicators, which are controlled in lighting from the control CPU on the CC-101 board. It mounts an IR photosensor in the front. The IR photosensor signal is input to the control CPU on the CC-101 board.

5-4. DR-667 Board

The DR-667 board mounts a tilt-direction control signal circuit and tilt motor driver. The control signal is input to the motor drive control CPU on the CC-101 board through the DD-48 board so as to drive and control a tilt motor. The tilt-direction endpoint detection signal output from the TSI-66 board and the IR photosensor signal output from the IR-55 board are input to the CC-101 board through the DR-667 and DD-48 boards.

5-5. TSI-66 Board

The TSI-66 board mounts a tilt-direction endpoint detection circuit. An upper/lower endpoint detection signal is output to the motor drive control CPU on the CC-101 board through the DR-667 and DD-48 boards to process tilt operation.

5-6. IR-55 Board

The IR-55 board mounts an upper IR photosensor. The IR photosensor signal is input to the control CPU on the CC-101 board through the DR-667 and DD-48 boards. The upper IR photosensing block is validated when IMG-FLIP is ON.

5-7. SW-1532 Board

The SW-1532 board mounts rear connectors for input/output signals, selector switches, and an IR photosensor. An input/output video signal is connected to the CC-101 board. Selector switch signals, and signals from VISCA IN (RS-232C), VISCA OUT (RS-232C), RS-422, and a rear IR photosensor are connected to the control CPU on the CC-101 board. The rear IR photosensor is invalidated when IMG-FLIP is ON.

5-8. CN-3446 Board

The CN-3446 board mediates video signals, sync signals, and power signals that are input and output between CC-101 and DD-48 boards and an option card. It mounts a connector for option card connection.

5-9. PS-842 Board

The PS-842 board mounts a pan-direction endpoint detection circuit. A right/left endpoint detection signal is output to the motor drive control CPU on the CC-101 board to process pan operation.

5-10. LED-509 Board

The LED-509 board mounts a tally lamp indicator. It controls lighting from control CPU through a camera block assembly.

5-11. LED-513 Board

The LED-513 board mounts a back tally lamp indicator. It controls lighting from control CPU through a camera block assembly.

5-12. DC-157 Board

The DC-157 board is connected to an AC power adaptor to input DC IN 12 V power. The input power is supplied to the DC-DC converter on the DD-48 board.

Section 6

Spare Parts

6-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

Harnesses with no part number are not registered as spare parts.

6-1. 補修部品注意事項

1. 安全重要部品

△警告

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。これは部品の共通化、改良等によるものです。

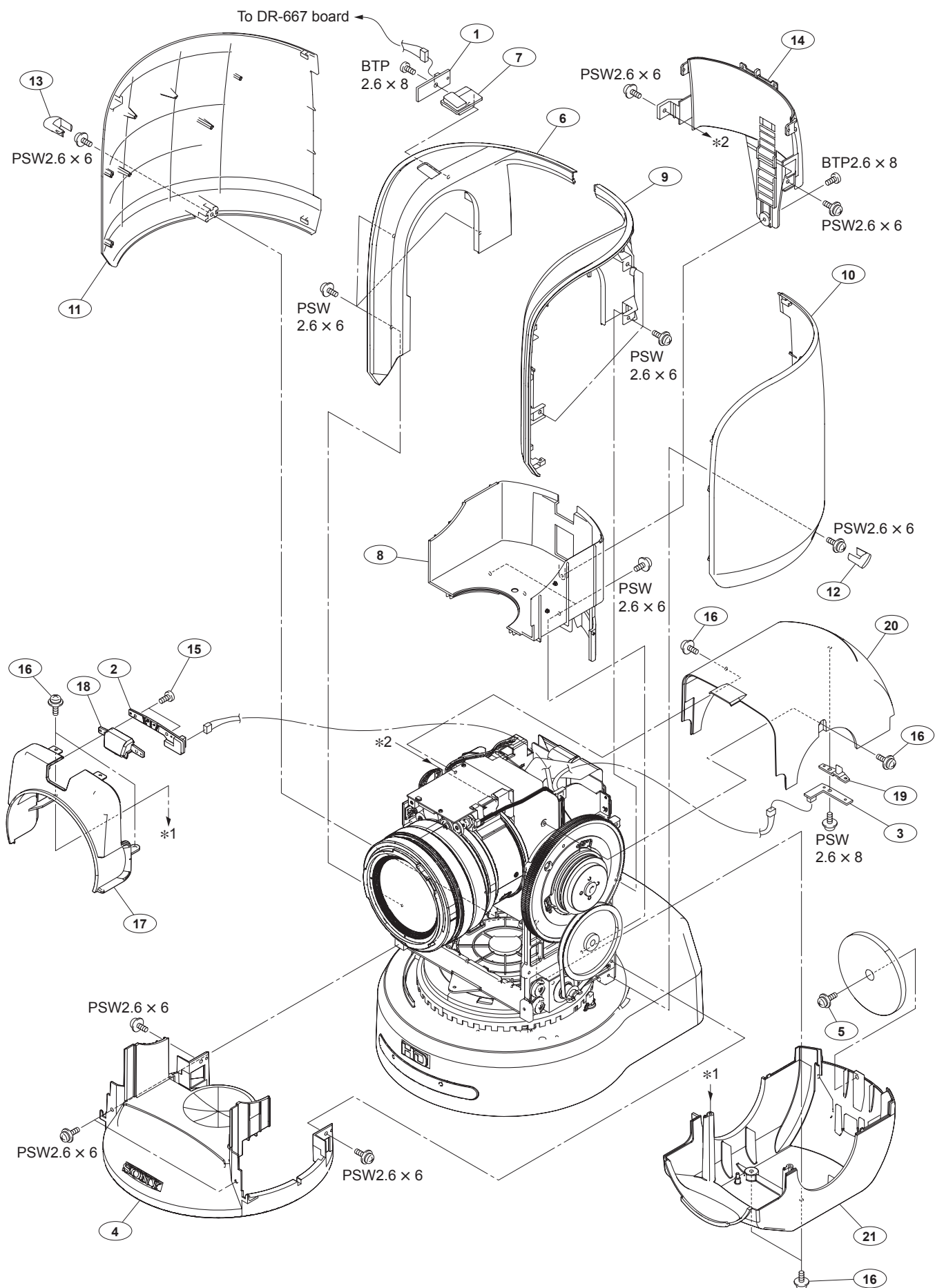
3. 部品の在庫

部品表の SP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなることがあります。

4. ハーネス

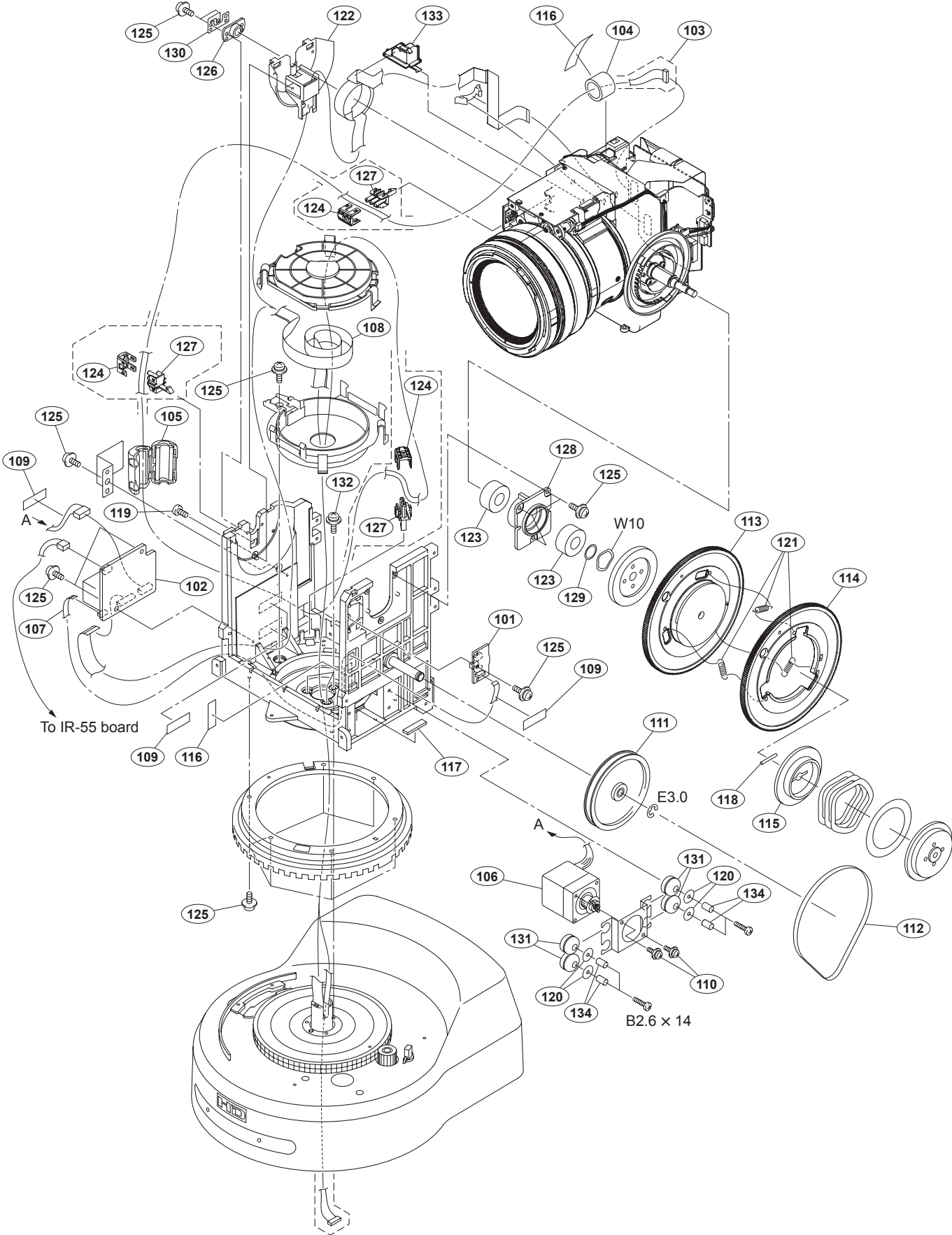
部品番号の記載されていないハーネスは、サービス部品として登録されていません。

6-2. Exploded Views

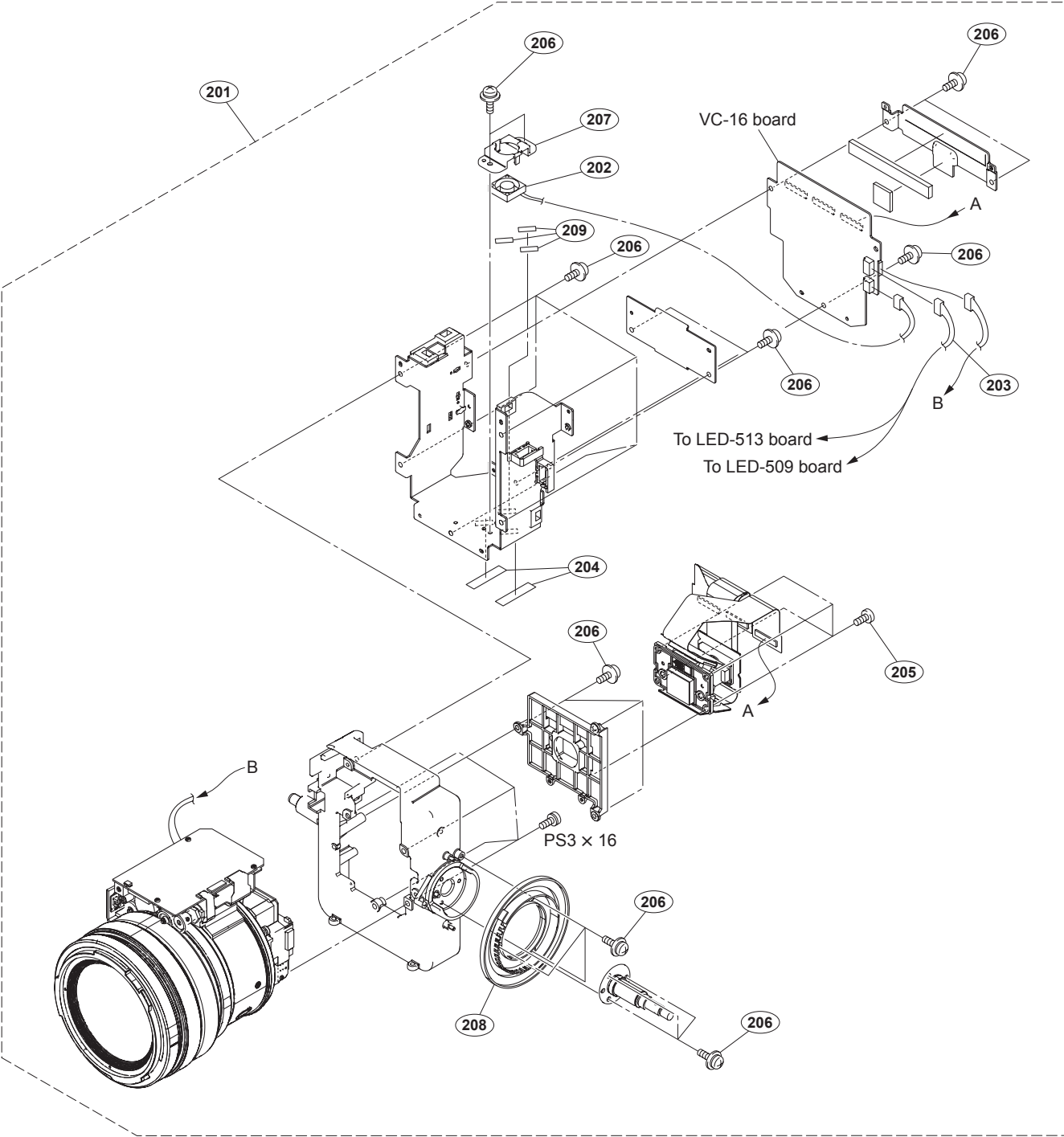


No.	Part No.	SP Description
1	A-1859-355-A	s MOUNTED CIRCUIT BOARD, IR-55
2	A-1859-358-A	s MOUNTED CIRCUIT BOARD, LED-509
3	A-1859-360-A	s MOUNTED CIRCUIT BOARD, LED-513
4	A-1874-542-A	s COVER (FRONT) ASSY, INNER
5	2-580-593-01	s SCREW, +PSW M3X8
6	3-287-207-11	s COVER (LEFT), INNER
7	3-287-208-01	s WINDOW, IR FRONT
8	3-287-210-11	s COVER (REAR), INNER
9	3-287-211-11	s COVER (RIGHT), INNER
10	3-287-212-11	s COVER (RIGHT), OUTER
11	3-287-213-11	s COVER (LEFT), OUTER
12	3-287-214-11	s COVER (RIGHT), SCREW
13	3-287-215-11	s COVER (LEFT), SCREW
14	3-287-216-11	s COVER (CENTER), INNER
15	3-746-217-02	s SCREW, TAPPING(B),SPECIAL HEAD
16	3-986-877-01	s +PSW2.6X6
17	4-424-156-01	s COVER (FRONT), CAMERA
18	4-424-157-01	s COVER, TALLY
19	4-424-166-01	s LIGHT (REAR), GUIDE
20	4-424-169-01	s COVER (UPPER), CAMERA
21	4-424-170-01	s COVER (LOWER), CAMERA
	7-621-759-40	s +PSW, 2.6X6
	7-621-759-65	s +PSW, 2.6X8
	7-685-534-19	s SCREW +BTP 2.6X8 TYPE2 N-S

Tilt Chassis Block

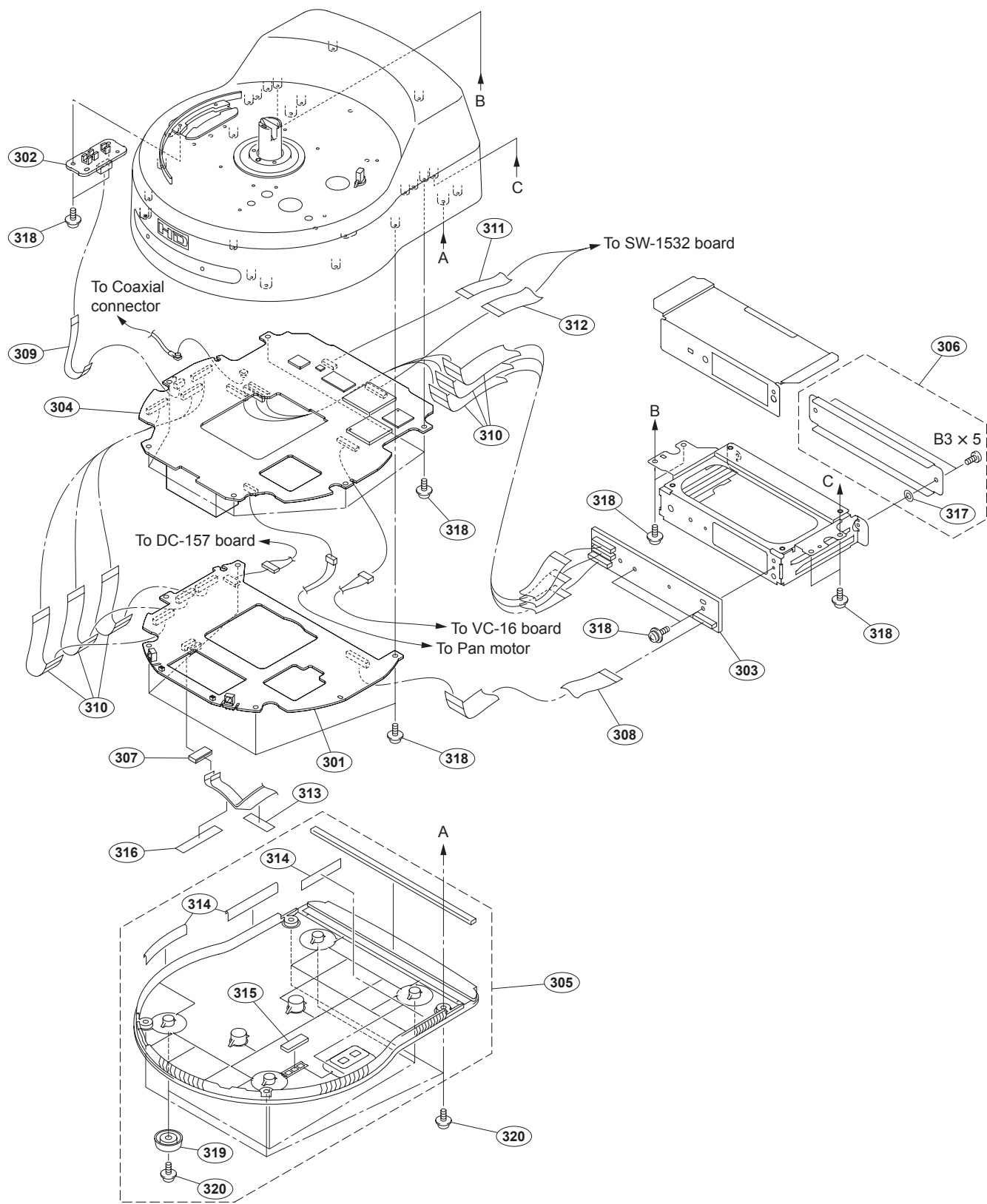


No.	Part No.	SP Description
101	A-1859-352-A	s MOUNTED CIRCUIT BOARD, TSI-66
102	A-1859-354-A	s MOUNTED CIRCUIT BOARD, DR-667
103	A-1874-541-A	s HARNESS ASSY, LVDS
104	1-400-795-11	s CORE, FERRITE
105	1-543-798-21	s FILTER, CLAMP (FERRITE CORE)
106	△ 1-787-729-23	s MOTOR, STEPPING (TILT)
107	1-834-903-11	s CABLE, FLEXIBLE FLAT (6 CORE)
108	1-968-282-11	s FLEXIBLE FLAT CABLE (22, 21P)
109	3-080-272-01	s TAPE (A)
110	3-277-886-01	s SW +P SCREW M2.5X5
111	3-287-112-02	s PULLEY (P)
112	3-287-121-02	s BELT, TIMING
113	3-287-123-01	s GEAR 1, (T)
114	3-287-124-01	s GEAR 2, (T)
115	3-287-150-01	s HOLDER (T), GEAR
116	3-287-505-01	s TAPE (L53)
117	3-287-574-01	s DAMPER (S), MOTOR
118	3-703-358-05	s PIN, PARALLEL (DIA. 2X16)
119	3-746-217-02	s SCREW, TAPPING (B), SPECIAL HEAD
120	3-874-446-01	s WASHER, DAMPER
121	3-986-802-01	s SPRING, PRESS, GEAR
122	3-986-826-01	s COVER (T), FFC
123	3-986-849-01	s FLANGELESS BALL BEARING
124	3-986-864-01	s CAP, CLAMP
125	3-986-877-01	s +PSW2.6X6
126	3-986-892-01	s BEARING T
127	3-986-894-01	s CLAMP, HARNESS
128	3-986-896-01	s HOLDER (TILT), BEARING
129	3-986-898-01	s WASHER (T)
130	3-990-384-01	s SPRING, SHIELD
131	4-273-030-01	s DAMPER, MOTOR
132	4-382-854-01	s SCREW (M3X8), P, SW (+)
133	4-424-168-01	s CAP, HARNESS
134	4-887-565-01	o SPACER (2.65X9)
	7-621-775-70	s SCREW +B 2.6X14
	7-623-710-57	s WASHER 10, WAVE TYPE
	7-624-106-04	s STOP RING 3.0, TYPE -E



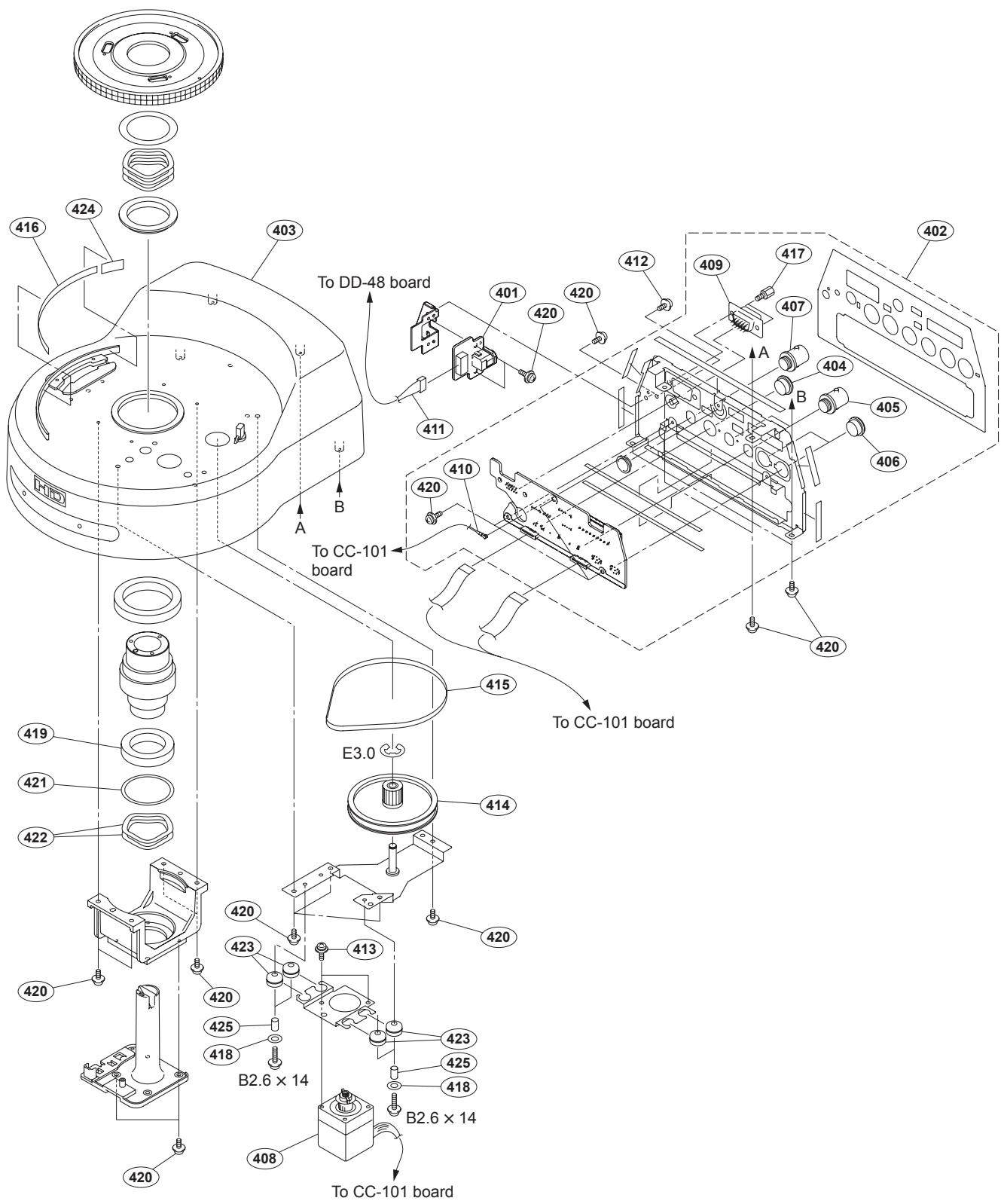
No.	Part No.	SP Description
201	A-1885-202-A	s CAMERA BLOCK ASSY (RP)
202	△ 1-855-188-11	s FAN, DC (15 SQUARE)
203	1-968-281-11	s SUB HARNESS (HARNESS, TALLY)
204	3-080-272-01	s TAPE (A)
205	3-746-217-02	s SCREW, TAPPING(B),SPECIAL HEAD
206	3-986-877-01	s +PSW2.6X6
207	4-424-163-01	s PLATE, FAN
208	4-424-167-01	s SHUTTER (T), SENSOR
209	4-672-493-01	s COVER (SC)
	7-682-652-01	s SCREW +PS 3X16

Cabinet Block 1



No.	Part No.	SP Description
301	A-1859-349-A	s MOUNTED CIRCUIT BOARD, DD-48
302	A-1859-353-A	s MOUNTED CIRCUIT BOARD, PS-842
303	A-1859-359-A	s MOUNTED CIRCUIT BOARD, CN-3446
304	A-1874-474-A	s MOUNTED CIRCUIT BOARD, CC-101
305	A-1874-539-A	s PLATE ASSY, BASE
306	A-8286-211-B	s ASSY, PANEL BLANK, HD
307	1-400-260-11	s BEAD, FERRITE
308	1-831-327-11	s CABLE, FLEXIBLE FLAT (30 CORE)
309	1-834-900-11	s CABLE, FLEXIBLE FLAT (6 CORE)
310	1-834-901-11	s CABLE, FLEXIBLE FLAT (30 CORE)
311	1-838-061-12	s CABLE, FLEXIBLE FLAT (20 CORE)
312	1-838-066-12	s CABLE, FLEXIBLE FLAT (23 CORE)
313	3-080-272-01	s TAPE (A)
314	3-287-505-01	s TAPE (L53)
315	3-287-574-01	s DAMPER (S), MOTOR
316	3-290-546-01	s TAPE (L40)
317	3-715-526-01	o WASHER (M3)
318	3-986-877-01	s +PSW2.6X6
319	4-043-045-01	s FOOT
320	4-382-854-01	s SCREW (M3X8), P, SW (+)
	7-682-546-09	s SCREW +B 3X5

Cabinet Block 2



No.	Part No.	SP	Description
401	A-1859-356-A	s	MOUNTED CIRCUIT BOARD, DC-157
402	A-1874-536-A	s	CHASSIS ASSY, CN
403	A-1874-540-B	s	CABINET ASSY, BASE
404	1-566-850-31	s	CONNECTOR, (S) TERMINAL 4P
405	1-580-724-22	s	CONNECTOR, BNC
406	1-774-806-11	s	CONNECTOR, ROUND TYPE (8PIN)
407	1-784-240-11	s	CONVERTER, COAXIAL CONNECTOR
408	Δ 1-787-729-13	s	MOTOR, STEPPING (PAN)
409	1-819-069-11	s	D SUB CONNECTOR (RECEPTACLE)
410	1-830-737-11	s	CABLE ASSEMBLY, COAXIAL
411	1-965-820-11	s	HARNESS, SUB (SY-DC)
412	2-580-593-01	s	SCREW, +PSW M3X8
413	3-277-886-01	s	SW +P SCREW M2.5X5
414	3-287-112-02	s	PULLEY (P)
415	3-287-121-02	s	BELT, TIMING
416	3-287-505-01	s	TAPE (L53)
417	3-608-891-01	o	POST, HEXAGON
418	3-874-446-01	s	WASHER, DAMPER
419	3-986-847-01	s	FLANGELESS BALL BEARING
420	3-986-877-01	s	+PSW2.6X6
421	3-986-900-01	s	WASHER, P
422	3-990-382-01	s	WASHER, WAVE
423	4-273-030-01	s	DAMPER, MOTOR
424	4-672-493-01	s	COVER (SC)
425	4-887-565-01	o	SPACER (2.65X9)
	7-621-775-70	s	SCREW +B 2.6X14
	7-624-106-04	s	STOP RING 3.0, TYPE -E

6-3. Electrical Parts List

CC-101 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1874-474-A	s MOUNTED CIRCUIT BOARD, CC-101
C1051	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1053	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1054	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1055	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1056	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1057	1-100-415-91	s CAP, CHIP CERAMIC 0.47MF(1005)
C1058	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1059	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1060	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1061	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1062	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C1063	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1064	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1065	1-114-728-91	o CAP, CERAMIC 22MF B 3216
C1066	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
C1067	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1068	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C1069	1-165-884-91	s CAP, CERAMIC 2.2MF (1608)
C1070	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1071	1-165-884-91	s CAP, CERAMIC 2.2MF (1608)
C1073	1-100-881-91	s CAP, CERAMIC 47MF C (3216)
C1075	1-100-881-91	s CAP, CERAMIC 47MF C (3216)
C1078	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1079	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1080	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1081	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1082	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1084	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1085	1-100-881-91	s CAP, CERAMIC 47MF C (3216)
C1086	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1087	1-100-881-91	s CAP, CERAMIC 47MF C (3216)
C1090	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1091	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1092	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1093	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1094	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1095	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1096	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1097	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1098	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1099	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1100	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C1101	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1102	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1103	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1104	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C1105	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1106	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1251	1-164-842-81	s CAP,CHIP CERAMIC 2.0PF CK 1005
C1252	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C1253	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1254	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1255	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1256	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1257	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1258	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1259	1-112-815-91	s CAP, CERAMIC 10MF C (1608)

(CC-101 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C1260	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1261	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1262	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C1263	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1264	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1265	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1266	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1267	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1268	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1269	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1270	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1271	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1272	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1273	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1274	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1275	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1276	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1277	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1351	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1352	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1353	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1354	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1451	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1452	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1453	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1454	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1551	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C1552	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C1553	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C1554	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C1555	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1556	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C1557	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1601	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1602	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1603	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1604	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1605	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1606	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1607	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1608	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1609	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1610	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1611	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1612	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1613	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1614	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1615	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1616	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1617	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1618	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1619	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1620	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1621	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1622	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1623	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1624	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C1625	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C1626	1-165-989-91	s CAP, CERAMIC 10MF (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
C1686	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C1701	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1702	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1703	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C1704	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1705	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C1706	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1707	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1708	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1709	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1710	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C1711	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1712	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1713	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1714	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1715	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1716	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1717	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1718	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1719	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1720	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1721	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1722	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1723	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1724	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1725	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1726	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1727	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1728	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C1729	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C1730	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C1731	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C1751	1-100-611-91	s	CAP, CERAMIC 22MF C (2012)
C1752	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1753	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1754	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1755	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1756	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C1757	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1758	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1759	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1760	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1761	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1762	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1763	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C1765	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1766	1-100-611-91	s	CAP, CERAMIC 22MF C (2012)
C1767	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1768	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C1769	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C1770	1-164-939-81	s	CAP, CHIPCERAMIC 2200PF B 1005
C1771	1-164-939-81	s	CAP, CHIPCERAMIC 2200PF B 1005
C1772	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1773	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C1774	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C1775	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C1776	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C1777	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C1778	1-119-923-81	s	CAP, CERAMIC 0.047MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description	
C2002	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2003	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2004	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2005	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2006	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2007	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2008	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2009	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2010	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2011	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2012	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2013	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2014	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2015	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2016	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2017	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2018	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2019	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2020	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2021	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2022	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2023	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2024	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2025	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2026	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)	
C2027	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)	
C2028	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2029	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2030	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2031	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2032	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2033	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2034	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2035	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2036	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2037	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2038	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2039	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2040	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2041	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2042	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2043	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2044	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2045	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2046	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2047	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2048	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2049	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2050	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2051	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2052	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2053	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2054	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2055	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2056	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2057	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2058	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH	1005
C2059	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	
C2060	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005	

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Ref. No. or Q'ty	Part No.	SP	Description
C2061	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2062	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2063	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2064	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2065	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2066	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2067	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2068	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2069	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2070	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2071	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2072	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2073	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2074	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2075	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2076	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2077	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2078	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2079	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2080	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2081	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2082	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2083	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C2084	1-100-880-91	s	CAP, CERAMIC 100MF C (3225)
C2085	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2086	1-114-523-11	s	CAP, NIOBIUM ELECT 220MF
C2087	1-100-880-91	s	CAP, CERAMIC 100MF C (3225)
C2089	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2090	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2091	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2092	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2093	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2094	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2095	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2096	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2097	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2098	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2099	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2100	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2101	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2102	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2103	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2104	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2105	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2106	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2107	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2108	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2109	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2110	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2111	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2112	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2113	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2114	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2115	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2202	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2203	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2204	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2205	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2206	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C2207	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2208	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C2209	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2210	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2211	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2251	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2252	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2253	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2254	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2255	1-164-935-81	s	CAP, CHIP CERAMIC 470PF B 1005
C2256	1-164-935-81	s	CAP, CHIP CERAMIC 470PF B 1005
C2257	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2258	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C2259	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2260	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2261	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C2262	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2263	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2264	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C2265	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C2266	1-112-815-91	s	CAP, CERAMIC 10MF C (1608)
C2267	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2268	1-164-935-81	s	CAP, CHIP CERAMIC 470PF B 1005
C2269	1-164-935-81	s	CAP, CHIP CERAMIC 470PF B 1005
C2274	1-164-935-81	s	CAP, CHIP CERAMIC 470PF B 1005
C2275	1-164-935-81	s	CAP, CHIP CERAMIC 470PF B 1005
C2276	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2277	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2278	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2401	1-119-869-91	s	CAP, CHIP CERAMIC 10MF 3225
C2402	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C2403	1-119-869-91	s	CAP, CHIP CERAMIC 10MF 3225
C2404	1-119-869-91	s	CAP, CHIP CERAMIC 10MF 3225
C2405	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2406	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2407	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2408	1-119-869-91	s	CAP, CHIP CERAMIC 10MF 3225
C2410	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2411	1-119-869-91	s	CAP, CHIP CERAMIC 10MF 3225
C2414	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2418	1-137-894-21	s	CAP, CHIP ELECT 470MF
C2419	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2420	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C2421	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2422	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2423	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2424	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2425	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2426	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2427	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2428	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2429	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2430	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2431	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2432	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2433	1-100-581-81	s	CAP,CHIP CERAMIC0.0047MF B1005
C2435	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2436	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C2553	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP Description
C2554	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2556	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2557	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2558	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2559	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2560	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2561	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C2562	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2563	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2564	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2565	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2568	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C2569	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C2573	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2574	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C2702	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2706	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2753	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2754	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2755	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2756	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2803	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2804	1-107-819-81 s	CAP,CHIP CERAMIC 22000PF B1005
C2805	1-107-819-81 s	CAP,CHIP CERAMIC 22000PF B1005
C2806	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2807	1-112-815-91 s	CAP, CERAMIC 10MF C (1608)
C2808	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2811	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C2812	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C2815	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2818	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2821	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2822	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2824	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2826	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2828	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2851	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2852	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2853	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2854	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2855	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2856	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2857	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2859	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2860	1-125-891-91 s	CAP, CHIP CERAMIC0.47MF B 1608
C2861	1-125-891-91 s	CAP, CHIP CERAMIC0.47MF B 1608
C2862	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2864	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2865	1-114-419-21 s	CAP, CERAMIC 10MF B (2012)
C2866	1-125-891-91 s	CAP, CHIP CERAMIC0.47MF B 1608
C2867	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
C2868	1-114-419-21 s	CAP, CERAMIC 10MF B (2012)
C2869	1-114-582-91 s	CAP, CERAMIC 0.1MF B 1005
CN1001	1-843-302-21 s	CONNECTOR, COAXIAL 20P
CN1004	1-764-516-51 s	CONNECTOR, FFC/FPC (ZIF) 6P
CN1005	1-750-361-51 s	CONNECTOR, FFC/FPC (ZIF) 30P
CN1006	1-750-361-51 s	CONNECTOR, FFC/FPC (ZIF) 30P
CN1007	1-750-361-51 s	CONNECTOR, FFC/FPC (ZIF) 30P

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Ref. No. or Q'ty	Part No.	SP Description
CN1008	1-750-361-51 s	CONNECTOR, FFC/FPC (ZIF) 30P
CN1009	1-750-361-51 s	CONNECTOR, FFC/FPC (ZIF) 30P
CN1010	1-750-361-51 s	CONNECTOR, FFC/FPC (ZIF) 30P
CN1011	1-573-363-61 s	CONNECTOR, FFC/FPC (ZIF) 23P
CN1012	1-573-360-61 s	CONNECTOR, FFC/FPC (ZIF) 20P
CN1014	1-784-254-21 s	CONNECTOR 10P
CN1020	1-764-243-21 o	CONNECTOR (COAXIAL)
D1051	8-719-070-20 s	DIODE RB706F-40
D1351	8-719-074-31 s	DIODE CL-196YG-CD-T
D1551	8-719-056-48 s	DI 1SS388
D1552	8-719-056-48 s	DI 1SS388
D1553	8-719-056-48 s	DI 1SS388
D1554	8-719-056-48 s	DI 1SS388
D1555	8-719-074-31 s	DIODE CL-196YG-CD-T
D2701	8-719-069-28 s	DI 1SS400FJTE61
D2702	8-719-069-28 s	DI 1SS400FJTE61
D2703	8-719-069-28 s	DI 1SS400FJTE61
D2704	8-719-069-28 s	DI 1SS400FJTE61
D2705	8-719-069-28 s	DI 1SS400FJTE61
D2706	8-719-069-28 s	DI 1SS400FJTE61
D2851	8-719-069-28 s	DI 1SS400FJTE61
D2852	8-719-989-01 s	DIODE DA221-TL
FB1051	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB1052	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1053	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1054	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB1055	1-400-382-21 s	EMI FERRITE (SMD) (1608)
FB1056	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1057	1-469-324-21 s	FERRITE, EMI (SMD) (2012)
FB1058	1-469-324-21 s	FERRITE, EMI (SMD) (2012)
FB1059	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1060	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1061	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1062	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1063	1-414-445-21 s	FERRITE, EMI (SMD) (1608)
FB1151	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1152	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1153	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1154	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1155	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1156	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1157	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1158	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1159	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1160	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1161	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1162	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1163	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1164	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1165	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1166	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1167	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1168	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1169	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1170	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1171	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1172	1-400-826-21 s	EMI FERRITE (SMD) (1005)
FB1173	1-400-826-21 s	EMI FERRITE (SMD) (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
FB1174	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1175	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1176	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1177	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1178	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1179	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1180	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1181	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1182	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1183	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1184	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1185	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1186	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1187	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1188	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1189	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1190	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1191	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1192	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1193	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1194	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1195	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1196	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1197	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1198	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1199	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1200	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1201	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1204	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1205	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1206	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1207	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1208	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1209	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1210	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB1213	1-400-826-21	s	EMI FERRITE (SMD) (1005)
FB1251	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1252	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1253	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1254	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1255	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1256	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1257	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1258	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1351	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1352	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1451	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1452	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1551	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1601	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1602	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1603	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1701	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1702	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1703	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1704	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1705	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1706	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB1751	1-400-382-21	s	EMI FERRITE (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
FB1755	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1756	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1757	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1758	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB1759	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1760	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1761	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1762	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB1763	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB1764	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB2001	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB2002	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB2003	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB2201	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB2551	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB2701	1-414-445-21	s	FERRITE, EMI (SMD) (1608)
FB2851	1-469-324-21	s	FERRITE, EMI (SMD) (2012)
FB2852	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2854	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2855	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2856	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2857	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2858	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2859	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2860	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2861	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2862	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2863	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2864	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2865	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2866	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2867	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2868	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2869	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2870	1-400-462-21	s	FERRITE, EMI (SMD) (1005)
FB2871	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FB2872	1-400-382-21	s	EMI FERRITE (SMD) (1608)
FL1051	1-234-979-21	s	FILTER, EMI REMOVAL (SMD)
FL1052	1-234-979-21	s	FILTER, EMI REMOVAL (SMD)
FL1701	1-400-648-21	s	FILTER, CHIP EMI (1606)
FL1751	1-234-503-21	s	FILTER, LOW PASS (14MHZ)
FL1752	1-234-503-21	s	FILTER, LOW PASS (14MHZ)
FL1753	1-234-503-21	s	FILTER, LOW PASS (14MHZ)
FL1754	1-233-943-21	s	FILTER, LOW PASS
FL1755	1-233-943-21	s	FILTER, LOW PASS
FL1756	1-233-943-21	s	FILTER, LOW PASS
IC1005	6-717-299-01	s	IC W9425G6JH-5-ER10
IC1006	6-717-299-01	s	IC W9425G6JH-5-ER10
IC1007	6-713-186-01	s	IC ADV7344BSTZ
IC1011	1-417-914-11	s	DRIVER, STEPPING MOTOR
IC1051	6-703-977-01	s	IC R1114Q331D-TR-FE
IC1052	6-710-776-01	s	IC LMH1981MTX
IC1053	6-707-874-01	s	IC TC74VHC244FT(EKJ)
IC1055	8-759-672-76	s	IC AK9813BF-E2
IC1056	6-709-646-01	s	IC TLC2933AIPWR
IC1057	8-759-675-54	s	IC TC7W53FK(TE85R)
IC1058	8-759-337-40	s	IC NJM2904V(TE2)
IC1059	8-759-675-54	s	IC TC7W53FK(TE85R)

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Ref. No. or Q'ty	Part No.	SP	Description
IC1061	8-759-592-48	s	IC TC7SZ32FU (TE85R)
IC1062	6-709-646-01	s	IC TLC2933AIPWR
IC1063	8-759-675-54	s	IC TC7W53FK (TE85R)
IC1064	6-706-491-01	s	IC TC7SH86FU
IC1065	8-759-675-54	s	IC TC7W53FK (TE85R)
IC1251	6-702-546-11	s	IC SN65LVDS1DR
IC1551	6-706-487-01	s	IC TC7SH08FU
IC1751	6-703-224-01	s	IC S-80828CNNB-B8NT2G
IC1753	6-709-048-01	s	IC BH33MA3WHFV-TR
IC1755	6-703-976-01	s	IC R1114Q181D-TR-FE
IC1756	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC1757	8-759-687-14	s	IC MAX4451EKA+TG069
IC1758	8-759-687-14	s	IC MAX4451EKA+TG069
IC1759	8-759-687-14	s	IC MAX4451EKA+TG069
IC1760	8-759-687-14	s	IC MAX4451EKA+TG069
IC1761	8-759-687-14	s	IC MAX4451EKA+TG069
IC1762	8-759-687-14	s	IC MAX4451EKA+TG069
IC1763	8-759-687-14	s	IC MAX4451EKA+TG069
IC1764	6-703-976-01	s	IC R1114Q181D-TR-FE
IC1901	8-759-656-54	s	IC TC7WH14FK
IC2001	6-707-035-01	s	IC LP2996MRX
IC2202	6-707-843-01	s	IC TC74LCX125FT (EKJ)
IC2203	8-759-592-49	s	IC TC7SZ125FU (TE85R)
IC2204	6-707-843-01	s	IC TC74LCX125FT (EKJ)
IC2251	6-706-487-01	s	IC TC7SH08FU
IC2254	6-707-843-01	s	IC TC74LCX125FT (EKJ)
IC2401	6-707-885-01	s	IC TC74VHCT08AFT (EKJ)
IC2402	6-706-484-01	s	IC TC7SH04FU
IC2403	6-707-863-01	s	IC TC74VHC08FT (EKJ)
IC2404	6-707-877-01	s	IC TC74VHC32FT (EKJ)
IC2405	6-706-489-01	s	IC TC7SH32FU
IC2406	6-706-484-01	s	IC TC7SH04FU
IC2407	8-759-656-54	s	IC TC7WH14FK
IC2408	8-759-656-54	s	IC TC7WH14FK
IC2409	8-759-656-54	s	IC TC7WH14FK
IC2410	8-759-656-54	s	IC TC7WH14FK
IC2701	6-706-487-01	s	IC TC7SH08FU
IC2702	6-707-865-01	s	IC TC74VHC125FT (EKJ)
IC2703	6-706-484-01	s	IC TC7SH04FU
IC2759	6-706-489-01	s	IC TC7SH32FU
IC2760	6-707-863-01	s	IC TC74VHC08FT (EKJ)
IC2762	6-707-863-01	s	IC TC74VHC08FT (EKJ)
IC2764	6-707-861-01	s	IC TC74VHC04FT (EKJ)
IC2801	6-707-865-01	s	IC TC74VHC125FT (EKJ)
IC2802	6-707-865-01	s	IC TC74VHC125FT (EKJ)
IC2806	6-703-224-01	s	IC S-80828CNNB-B8NT2G
IC2808	6-703-224-01	s	IC S-80828CNNB-B8NT2G
IC2810	6-707-865-01	s	IC TC74VHC125FT (EKJ)
IC2812	6-707-865-01	s	IC TC74VHC125FT (EKJ)
IC2818	8-759-531-92	s	IC TC7WH04FU (TE12R)
IC2819	6-707-863-01	s	IC TC74VHC08FT (EKJ)
IC2820	8-759-598-44	s	IC TC7WH08FK
IC2821	8-759-598-44	s	IC TC7WH08FK
IC2852	8-759-647-75	s	IC TC7W66FK (TE85R)
IC2853	6-706-478-01	s	IC TC7SET08FU
IC2854	8-759-675-54	s	IC TC7W53FK (TE85R)
IC2855	8-759-675-54	s	IC TC7W53FK (TE85R)
IC2856	8-759-675-54	s	IC TC7W53FK (TE85R)
IC2857	8-759-675-54	s	IC TC7W53FK (TE85R)

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IC2859	6-700-424-01	s	IC MAX3243CDBR
IC2860	6-701-543-01	s	IC SN75C1168NSR
IC2861	6-707-861-01	s	IC TC74VHC04FT (EKJ)
L2401	1-460-379-11	s	COIL, CHOKE (SMD) 100UH
Q1051	8-729-117-22	s	TRANSISTOR 2SA1611-T1M6
Q1052	8-729-140-67	s	TRANSISTOR 2SC4177-T1L5L6
Q1054	8-729-013-22	s	TR HN1A01FU
Q1055	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1351	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q1551	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q2553	8-729-928-28	s	TRANSISTOR DTA144EE-TL
Q2851	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q2852	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q2853	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q2854	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q2855	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q2856	8-729-905-38	s	TRANSISTOR 2SC4081T106R
Q2857	8-729-905-38	s	TRANSISTOR 2SC4081T106R
R1053	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R1058	1-218-965-81	s	RES, CHIP 10K 1005
R1071	1-218-953-81	s	RES, CHIP 1.0K
R1072	1-218-969-81	s	RES, CHIP 22K
R1073	1-218-969-81	s	RES, CHIP 22K
R1074	1-218-971-81	s	RES, CHIP 33K
R1075	1-218-969-81	s	RES, CHIP 22K
R1077	1-218-953-81	s	RES, CHIP 1.0K
R1078	1-218-965-81	s	RES, CHIP 10K 1005
R1079	1-218-953-81	s	RES, CHIP 1.0K
R1080	1-218-953-81	s	RES, CHIP 1.0K
R1082	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R1083	1-218-953-81	s	RES, CHIP 1.0K
R1087	1-208-911-81	s	RES, CHIP 10K (1005)
R1088	1-218-965-81	s	RES, CHIP 10K 1005
R1089	1-218-965-81	s	RES, CHIP 10K 1005
R1090	1-218-965-81	s	RES, CHIP 10K 1005
R1092	1-218-937-81	s	RES, CHIP 47
R1093	1-218-953-81	s	RES, CHIP 1.0K
R1100	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R1101	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R1102	1-218-941-81	s	RES, CHIP 100
R1103	1-218-941-81	s	RES, CHIP 100
R1108	1-218-929-81	s	RES, CHIP 10
R1109	1-218-929-81	s	RES, CHIP 10
R1110	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R1111	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R1112	1-218-953-81	s	RES, CHIP 1.0K
R1113	1-218-953-81	s	RES, CHIP 1.0K
R1117	1-218-977-81	s	RES, CHIP 100K
R1120	1-218-977-81	s	RES, CHIP 100K
R1121	1-218-937-81	s	RES, CHIP 47
R1122	1-218-965-81	s	RES, CHIP 10K 1005
R1123	1-218-965-81	s	RES, CHIP 10K 1005
R1124	1-218-965-81	s	RES, CHIP 10K 1005
R1125	1-218-965-81	s	RES, CHIP 10K 1005
R1126	1-218-965-81	s	RES, CHIP 10K 1005
R1127	1-218-929-81	s	RES, CHIP 10
R1128	1-218-953-81	s	RES, CHIP 1.0K
R1129	1-218-989-81	s	RES, CHIP 1M

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Ref. No. or Q'ty	Part No.	SP Description
R1130	1-218-965-81	s RES, CHIP 10K 1005
R1131	1-218-989-81	s RES, CHIP 1M
R1132	1-216-864-91	s CONDUCTOR, CHIP (1608)
R1153	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1155	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1264	1-208-863-81	s RES, CHIP 100 (1005)
R1265	1-208-863-81	s RES, CHIP 100 (1005)
R1266	1-208-863-81	s RES, CHIP 100 (1005)
R1267	1-208-863-81	s RES, CHIP 100 (1005)
R1268	1-208-863-81	s RES, CHIP 100 (1005)
R1272	1-208-863-81	s RES, CHIP 100 (1005)
R1276	1-218-965-81	s RES, CHIP 10K 1005
R1278	1-218-965-81	s RES, CHIP 10K 1005
R1280	1-218-965-81	s RES, CHIP 10K 1005
R1301	1-218-929-81	s RES, CHIP 10
R1302	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1321	1-218-941-81	s RES, CHIP 100
R1322	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1325	1-218-929-81	s RES, CHIP 10
R1326	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1327	1-218-933-81	s RES, CHIP 22
R1328	1-218-933-81	s RES, CHIP 22
R1329	1-218-929-81	s RES, CHIP 10
R1330	1-218-929-81	s RES, CHIP 10
R1351	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1352	1-218-933-81	s RES, CHIP 22
R1355	1-218-937-81	s RES, CHIP 47
R1356	1-218-937-81	s RES, CHIP 47
R1357	1-218-937-81	s RES, CHIP 47
R1358	1-218-937-81	s RES, CHIP 47
R1359	1-218-929-81	s RES, CHIP 10
R1360	1-218-929-81	s RES, CHIP 10
R1361	1-218-929-81	s RES, CHIP 10
R1362	1-218-929-81	s RES, CHIP 10
R1363	1-218-929-81	s RES, CHIP 10
R1364	1-218-929-81	s RES, CHIP 10
R1365	1-218-929-81	s RES, CHIP 10
R1367	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1368	1-218-929-81	s RES, CHIP 10
R1369	1-218-929-81	s RES, CHIP 10
R1370	1-218-929-81	s RES, CHIP 10
R1375	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1376	1-218-929-81	s RES, CHIP 10
R1377	1-218-929-81	s RES, CHIP 10
R1378	1-218-929-81	s RES, CHIP 10
R1379	1-218-929-81	s RES, CHIP 10
R1380	1-218-929-81	s RES, CHIP 10
R1383	1-218-929-81	s RES, CHIP 10
R1384	1-218-929-81	s RES, CHIP 10
R1385	1-218-929-81	s RES, CHIP 10
R1386	1-218-937-81	s RES, CHIP 47
R1387	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1388	1-218-929-81	s RES, CHIP 10
R1389	1-218-929-81	s RES, CHIP 10
R1391	1-218-933-81	s RES, CHIP 22
R1392	1-218-929-81	s RES, CHIP 10
R1393	1-218-953-81	s RES, CHIP 1.0K
R1396	1-218-929-81	s RES, CHIP 10
R1397	1-218-929-81	s RES, CHIP 10

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Ref. No. or Q'ty	Part No.	SP Description
R1398	1-218-929-81	s RES, CHIP 10
R1399	1-218-929-81	s RES, CHIP 10
R1400	1-218-929-81	s RES, CHIP 10
R1401	1-218-929-81	s RES, CHIP 10
R1402	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1403	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1404	1-218-933-81	s RES, CHIP 22
R1405	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1406	1-218-929-81	s RES, CHIP 10
R1407	1-218-929-81	s RES, CHIP 10
R1408	1-218-977-81	s RES, CHIP 100K
R1459	1-218-961-81	s RES, CHIP 4.7K
R1460	1-218-961-81	s RES, CHIP 4.7K
R1461	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1463	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1464	1-218-929-81	s RES, CHIP 10
R1481	1-218-929-81	s RES, CHIP 10
R1482	1-218-929-81	s RES, CHIP 10
R1502	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1506	1-218-929-81	s RES, CHIP 10
R1507	1-218-933-81	s RES, CHIP 22
R1508	1-218-933-81	s RES, CHIP 22
R1509	1-218-937-81	s RES, CHIP 47
R1512	1-218-929-81	s RES, CHIP 10
R1513	1-218-929-81	s RES, CHIP 10
R1514	1-218-929-81	s RES, CHIP 10
R1515	1-218-929-81	s RES, CHIP 10
R1516	1-218-929-81	s RES, CHIP 10
R1517	1-218-929-81	s RES, CHIP 10
R1518	1-218-929-81	s RES, CHIP 10
R1519	1-218-929-81	s RES, CHIP 10
R1520	1-218-929-81	s RES, CHIP 10
R1521	1-218-929-81	s RES, CHIP 10
R1522	1-218-929-81	s RES, CHIP 10
R1523	1-218-929-81	s RES, CHIP 10
R1524	1-218-933-81	s RES, CHIP 22
R1551	1-218-965-81	s RES, CHIP 10K 1005
R1552	1-218-965-81	s RES, CHIP 10K 1005
R1553	1-218-965-81	s RES, CHIP 10K 1005
R1554	1-218-965-81	s RES, CHIP 10K 1005
R1555	1-218-965-81	s RES, CHIP 10K 1005
R1568	1-218-949-81	s RES, CHIP 470
R1569	1-218-933-81	s RES, CHIP 22
R1601	1-216-864-91	s CONDUCTOR, CHIP (1608)
R1703	1-208-870-81	s RES, CHIP 200 (1005)
R1704	1-208-871-81	s RES, CHIP 220 (1005)
R1705	1-208-870-81	s RES, CHIP 200 (1005)
R1708	1-218-965-81	s RES, CHIP 10K 1005
R1709	1-218-965-81	s RES, CHIP 10K 1005
R1711	1-218-965-81	s RES, CHIP 10K 1005
R1712	1-216-864-91	s CONDUCTOR, CHIP (1608)
R1713	1-218-965-81	s RES, CHIP 10K 1005
R1714	1-218-965-81	s RES, CHIP 10K 1005
R1715	1-218-965-81	s RES, CHIP 10K 1005
R1716	1-218-965-81	s RES, CHIP 10K 1005
R1717	1-218-965-81	s RES, CHIP 10K 1005
R1718	1-208-860-81	s RES, CHIP 75 (1005)
R1719	1-208-860-81	s RES, CHIP 75 (1005)
R1720	1-218-933-81	s RES, CHIP 22

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Ref. No. or Q'ty	Part No.	SP Description
R1721	1-208-884-81 s	RES, CHIP 750 (1005)
R1722	1-218-965-81 s	RES, CHIP 10K 1005
R1723	1-208-860-81 s	RES, CHIP 75 (1005)
R1724	1-208-860-81 s	RES, CHIP 75 (1005)
R1726	1-208-860-81 s	RES, CHIP 75 (1005)
R1728	1-218-965-81 s	RES, CHIP 10K 1005
R1733	1-218-965-81 s	RES, CHIP 10K 1005
R1735	1-218-965-81 s	RES, CHIP 10K 1005
R1738	1-218-965-81 s	RES, CHIP 10K 1005
R1741	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1742	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1743	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1744	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1745	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1746	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1747	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1759	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1770	1-208-911-81 s	RES, CHIP 10K (1005)
R1777	1-218-965-81 s	RES, CHIP 10K 1005
R1778	1-218-953-81 s	RES, CHIP 1.0K
R1779	1-208-919-81 s	RES, CHIP 22K (1005)
R1780	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1781	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1782	1-218-953-81 s	RES, CHIP 1.0K
R1786	1-218-965-81 s	RES, CHIP 10K 1005
R1787	1-218-977-81 s	RES, CHIP 100K
R1788	1-218-941-81 s	RES, CHIP 100
R1789	1-218-941-81 s	RES, CHIP 100
R1790	1-208-913-81 s	RES, CHIP 12K (1005)
R1792	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1793	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1804	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1805	1-218-965-81 s	RES, CHIP 10K 1005
R1806	1-208-901-81 s	RES, CHIP 3.9K (1005)
R1807	1-208-856-81 s	RES, CHIP 51 (1005)
R1808	1-208-856-81 s	RES, CHIP 51 (1005)
R1809	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1810	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1811	1-208-871-81 s	RES, CHIP 220 (1005)
R1812	1-208-865-81 s	RES, CHIP 120 (1005)
R1813	1-208-865-81 s	RES, CHIP 120 (1005)
R1814	1-208-913-81 s	RES, CHIP 12K (1005)
R1816	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1817	1-208-917-81 s	RES, CHIP 18K (1005)
R1818	1-208-901-81 s	RES, CHIP 3.9K (1005)
R1819	1-208-917-81 s	RES, CHIP 18K (1005)
R1820	1-208-871-81 s	RES, CHIP 220 (1005)
R1821	1-220-878-81 s	RES, CHIP 22 (1005)
R1822	1-220-878-81 s	RES, CHIP 22 (1005)
R1824	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1825	1-208-874-81 s	RES, CHIP 300 (1005)
R1826	1-208-874-81 s	RES, CHIP 300 (1005)
R1827	1-208-874-81 s	RES, CHIP 300 (1005)
R1828	1-208-874-81 s	RES, CHIP 300 (1005)
R1829	1-208-874-81 s	RES, CHIP 300 (1005)
R1830	1-208-874-81 s	RES, CHIP 300 (1005)
R1831	1-208-879-81 s	RES, CHIP 470 (1005)
R1832	1-208-879-81 s	RES, CHIP 470 (1005)
R1833	1-208-879-81 s	RES, CHIP 470 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R1834	1-208-879-81 s	RES, CHIP 470 (1005)
R1835	1-208-879-81 s	RES, CHIP 470 (1005)
R1836	1-208-879-81 s	RES, CHIP 470 (1005)
R1837	1-208-879-81 s	RES, CHIP 470 (1005)
R1838	1-208-879-81 s	RES, CHIP 470 (1005)
R1839	1-208-879-81 s	RES, CHIP 470 (1005)
R1840	1-208-879-81 s	RES, CHIP 470 (1005)
R1841	1-208-879-81 s	RES, CHIP 470 (1005)
R1842	1-208-879-81 s	RES, CHIP 470 (1005)
R1843	1-208-871-81 s	RES, CHIP 220 (1005)
R1844	1-208-871-81 s	RES, CHIP 220 (1005)
R1845	1-208-871-81 s	RES, CHIP 220 (1005)
R1846	1-208-875-81 s	RES, CHIP 330 (1005)
R1847	1-208-875-81 s	RES, CHIP 330 (1005)
R1848	1-208-875-81 s	RES, CHIP 330 (1005)
R1849	1-208-855-81 s	RES, CHIP 47 (1005)
R1850	1-208-871-81 s	RES, CHIP 220 (1005)
R1851	1-208-855-81 s	RES, CHIP 47 (1005)
R1852	1-208-871-81 s	RES, CHIP 220 (1005)
R1853	1-208-855-81 s	RES, CHIP 47 (1005)
R1854	1-208-871-81 s	RES, CHIP 220 (1005)
R1855	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1856	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1857	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1858	1-208-859-81 s	RES, CHIP 68 (1005)
R1859	1-208-875-81 s	RES, CHIP 330 (1005)
R1860	1-208-859-81 s	RES, CHIP 68 (1005)
R1861	1-208-875-81 s	RES, CHIP 330 (1005)
R1862	1-208-859-81 s	RES, CHIP 68 (1005)
R1863	1-208-875-81 s	RES, CHIP 330 (1005)
R1864	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1865	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1866	1-208-903-81 s	RES, CHIP 4.7K (1005)
R1867	1-208-879-81 s	RES, CHIP 470 (1005)
R1868	1-208-879-81 s	RES, CHIP 470 (1005)
R1869	1-208-879-81 s	RES, CHIP 470 (1005)
R1870	1-208-879-81 s	RES, CHIP 470 (1005)
R1871	1-208-879-81 s	RES, CHIP 470 (1005)
R1872	1-208-879-81 s	RES, CHIP 470 (1005)
R1873	1-208-879-81 s	RES, CHIP 470 (1005)
R1874	1-208-879-81 s	RES, CHIP 470 (1005)
R1876	1-208-879-81 s	RES, CHIP 470 (1005)
R1877	1-208-879-81 s	RES, CHIP 470 (1005)
R1878	1-208-879-81 s	RES, CHIP 470 (1005)
R1879	1-208-879-81 s	RES, CHIP 470 (1005)
R1880	1-211-990-91 s	RES, CHIP 75 (1608)
R1881	1-211-990-91 s	RES, CHIP 75 (1608)
R1882	1-211-990-91 s	RES, CHIP 75 (1608)
R1883	1-211-990-91 s	RES, CHIP 75 (1608)
R1884	1-211-990-91 s	RES, CHIP 75 (1608)
R1885	1-211-990-91 s	RES, CHIP 75 (1608)
R1886	1-211-990-91 s	RES, CHIP 75 (1608)
R1887	1-211-990-91 s	RES, CHIP 75 (1608)
R1888	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1889	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1890	1-216-864-91 s	CONDUCTOR, CHIP (1608)
R1902	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R1903	1-218-953-81 s	RES, CHIP 1.0K
R1924	1-218-990-81 s	CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R1926	1-218-965-81	s RES, CHIP 10K 1005
R1927	1-218-965-81	s RES, CHIP 10K 1005
R1928	1-218-965-81	s RES, CHIP 10K 1005
R1929	1-218-965-81	s RES, CHIP 10K 1005
R1930	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1932	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1935	1-218-965-81	s RES, CHIP 10K 1005
R1937	1-218-965-81	s RES, CHIP 10K 1005
R1938	1-218-965-81	s RES, CHIP 10K 1005
R1940	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1941	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1946	1-218-977-81	s RES, CHIP 100K
R1947	1-218-977-81	s RES, CHIP 100K
R1948	1-218-937-81	s RES, CHIP 47
R1949	1-218-937-81	s RES, CHIP 47
R1950	1-218-937-81	s RES, CHIP 47
R1951	1-218-937-81	s RES, CHIP 47
R1952	1-218-937-81	s RES, CHIP 47
R2001	1-208-855-81	s RES, CHIP 47 (1005)
R2002	1-208-855-81	s RES, CHIP 47 (1005)
R2003	1-208-855-81	s RES, CHIP 47 (1005)
R2004	1-208-855-81	s RES, CHIP 47 (1005)
R2005	1-208-855-81	s RES, CHIP 47 (1005)
R2006	1-208-855-81	s RES, CHIP 47 (1005)
R2007	1-220-878-81	s RES, CHIP 22 (1005)
R2008	1-220-878-81	s RES, CHIP 22 (1005)
R2009	1-220-878-81	s RES, CHIP 22 (1005)
R2010	1-220-878-81	s RES, CHIP 22 (1005)
R2011	1-208-855-81	s RES, CHIP 47 (1005)
R2012	1-208-855-81	s RES, CHIP 47 (1005)
R2013	1-208-855-81	s RES, CHIP 47 (1005)
R2014	1-208-855-81	s RES, CHIP 47 (1005)
R2015	1-208-863-81	s RES, CHIP 100 (1005)
R2016	1-208-863-81	s RES, CHIP 100 (1005)
R2017	1-208-863-81	s RES, CHIP 100 (1005)
R2018	1-208-863-81	s RES, CHIP 100 (1005)
R2019	1-208-863-81	s RES, CHIP 100 (1005)
R2020	1-208-863-81	s RES, CHIP 100 (1005)
R2021	1-208-863-81	s RES, CHIP 100 (1005)
R2022	1-208-863-81	s RES, CHIP 100 (1005)
R2023	1-208-863-81	s RES, CHIP 100 (1005)
R2024	1-208-863-81	s RES, CHIP 100 (1005)
R2025	1-208-863-81	s RES, CHIP 100 (1005)
R2026	1-208-863-81	s RES, CHIP 100 (1005)
R2027	1-208-863-81	s RES, CHIP 100 (1005)
R2028	1-208-863-81	s RES, CHIP 100 (1005)
R2029	1-208-863-81	s RES, CHIP 100 (1005)
R2030	1-208-863-81	s RES, CHIP 100 (1005)
R2031	1-208-863-81	s RES, CHIP 100 (1005)
R2032	1-208-863-81	s RES, CHIP 100 (1005)
R2033	1-208-863-81	s RES, CHIP 100 (1005)
R2034	1-208-863-81	s RES, CHIP 100 (1005)
R2204	1-218-977-81	s RES, CHIP 100K
R2205	1-218-933-81	s RES, CHIP 22
R2206	1-218-933-81	s RES, CHIP 22
R2207	1-218-933-81	s RES, CHIP 22
R2208	1-218-933-81	s RES, CHIP 22
R2209	1-218-985-81	s RES, CHIP 470K
R2210	1-218-977-81	s RES, CHIP 100K

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Ref. No. or Q'ty	Part No.	SP Description
R2211	1-218-953-81	s RES, CHIP 1.0K
R2212	1-218-953-81	s RES, CHIP 1.0K
R2213	1-218-977-81	s RES, CHIP 100K
R2215	1-218-953-81	s RES, CHIP 1.0K
R2218	1-218-953-81	s RES, CHIP 1.0K
R2251	1-218-953-81	s RES, CHIP 1.0K
R2252	1-218-965-81	s RES, CHIP 10K 1005
R2255	1-218-965-81	s RES, CHIP 10K 1005
R2258	1-218-965-81	s RES, CHIP 10K 1005
R2261	1-218-965-81	s RES, CHIP 10K 1005
R2262	1-218-965-81	s RES, CHIP 10K 1005
R2263	1-218-965-81	s RES, CHIP 10K 1005
R2264	1-218-965-81	s RES, CHIP 10K 1005
R2265	1-218-965-81	s RES, CHIP 10K 1005
R2266	1-218-965-81	s RES, CHIP 10K 1005
R2267	1-218-965-81	s RES, CHIP 10K 1005
R2268	1-218-965-81	s RES, CHIP 10K 1005
R2271	1-218-965-81	s RES, CHIP 10K 1005
R2272	1-218-965-81	s RES, CHIP 10K 1005
R2275	1-218-961-81	s RES, CHIP 4.7K
R2276	1-218-965-81	s RES, CHIP 10K 1005
R2277	1-218-965-81	s RES, CHIP 10K 1005
R2278	1-218-965-81	s RES, CHIP 10K 1005
R2279	1-218-965-81	s RES, CHIP 10K 1005
R2284	1-218-965-81	s RES, CHIP 10K 1005
R2285	1-218-965-81	s RES, CHIP 10K 1005
R2286	1-218-965-81	s RES, CHIP 10K 1005
R2287	1-218-965-81	s RES, CHIP 10K 1005
R2288	1-218-965-81	s RES, CHIP 10K 1005
R2289	1-218-965-81	s RES, CHIP 10K 1005
R2290	1-218-965-81	s RES, CHIP 10K 1005
R2291	1-218-965-81	s RES, CHIP 10K 1005
R2302	1-218-965-81	s RES, CHIP 10K 1005
R2303	1-218-965-81	s RES, CHIP 10K 1005
R2304	1-218-965-81	s RES, CHIP 10K 1005
R2305	1-218-965-81	s RES, CHIP 10K 1005
R2306	1-218-965-81	s RES, CHIP 10K 1005
R2307	1-218-965-81	s RES, CHIP 10K 1005
R2308	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2309	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2310	1-218-965-81	s RES, CHIP 10K 1005
R2311	1-218-965-81	s RES, CHIP 10K 1005
R2312	1-218-965-81	s RES, CHIP 10K 1005
R2313	1-218-965-81	s RES, CHIP 10K 1005
R2315	1-218-965-81	s RES, CHIP 10K 1005
R2316	1-218-961-81	s RES, CHIP 4.7K
R2317	1-218-961-81	s RES, CHIP 4.7K
R2401	1-216-809-91	s RES, CHIP 100 (1608)
R2402	1-216-809-91	s RES, CHIP 100 (1608)
R2403	1-216-809-91	s RES, CHIP 100 (1608)
R2404	1-216-809-91	s RES, CHIP 100 (1608)
R2405	1-216-809-91	s RES, CHIP 100 (1608)
R2407	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2408	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2410	1-218-953-81	s RES, CHIP 1.0K
R2412	1-218-953-81	s RES, CHIP 1.0K
R2415	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2416	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2418	1-218-990-81	s CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R2419	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2421	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2423	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2424	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2426	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2428	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2430	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2553	1-218-965-81	s RES, CHIP 10K 1005
R2554	1-218-965-81	s RES, CHIP 10K 1005
R2555	1-218-965-81	s RES, CHIP 10K 1005
R2556	1-218-965-81	s RES, CHIP 10K 1005
R2558	1-218-965-81	s RES, CHIP 10K 1005
R2559	1-218-965-81	s RES, CHIP 10K 1005
R2561	1-218-965-81	s RES, CHIP 10K 1005
R2563	1-218-965-81	s RES, CHIP 10K 1005
R2564	1-218-965-81	s RES, CHIP 10K 1005
R2566	1-218-965-81	s RES, CHIP 10K 1005
R2567	1-218-965-81	s RES, CHIP 10K 1005
R2568	1-218-965-81	s RES, CHIP 10K 1005
R2569	1-218-965-81	s RES, CHIP 10K 1005
R2570	1-218-965-81	s RES, CHIP 10K 1005
R2571	1-218-965-81	s RES, CHIP 10K 1005
R2573	1-218-961-81	s RES, CHIP 4.7K
R2575	1-218-965-81	s RES, CHIP 10K 1005
R2577	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2579	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2581	1-218-965-81	s RES, CHIP 10K 1005
R2588	1-218-965-81	s RES, CHIP 10K 1005
R2594	1-218-965-81	s RES, CHIP 10K 1005
R2600	1-218-965-81	s RES, CHIP 10K 1005
R2601	1-218-965-81	s RES, CHIP 10K 1005
R2602	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2603	1-218-973-81	s RES, CHIP 47K
R2608	1-218-965-81	s RES, CHIP 10K 1005
R2610	1-218-965-81	s RES, CHIP 10K 1005
R2611	1-218-953-81	s RES, CHIP 1.0K
R2612	1-218-965-81	s RES, CHIP 10K 1005
R2613	1-218-941-81	s RES, CHIP 100
R2614	1-218-965-81	s RES, CHIP 10K 1005
R2620	1-218-953-81	s RES, CHIP 1.0K
R2625	1-218-965-81	s RES, CHIP 10K 1005
R2633	1-218-965-81	s RES, CHIP 10K 1005
R2650	1-218-965-81	s RES, CHIP 10K 1005
R2651	1-218-965-81	s RES, CHIP 10K 1005
R2654	1-218-965-81	s RES, CHIP 10K 1005
R2657	1-218-989-81	s RES, CHIP 1M
R2658	1-218-965-81	s RES, CHIP 10K 1005
R2660	1-218-965-81	s RES, CHIP 10K 1005
R2661	1-218-965-81	s RES, CHIP 10K 1005
R2662	1-218-965-81	s RES, CHIP 10K 1005
R2663	1-218-965-81	s RES, CHIP 10K 1005
R2664	1-218-965-81	s RES, CHIP 10K 1005
R2666	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2667	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2670	1-218-965-81	s RES, CHIP 10K 1005
R2671	1-218-965-81	s RES, CHIP 10K 1005
R2672	1-218-965-81	s RES, CHIP 10K 1005
R2674	1-218-965-81	s RES, CHIP 10K 1005
R2675	1-218-965-81	s RES, CHIP 10K 1005

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Ref. No. or Q'ty	Part No.	SP Description
R2677	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2678	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2680	1-218-965-81	s RES, CHIP 10K 1005
R2701	1-218-987-81	s RES, CHIP 680K
R2702	1-218-965-81	s RES, CHIP 10K 1005
R2703	1-218-965-81	s RES, CHIP 10K 1005
R2704	1-218-965-81	s RES, CHIP 10K 1005
R2706	1-218-965-81	s RES, CHIP 10K 1005
R2707	1-218-965-81	s RES, CHIP 10K 1005
R2710	1-218-965-81	s RES, CHIP 10K 1005
R2711	1-218-965-81	s RES, CHIP 10K 1005
R2801	1-218-965-81	s RES, CHIP 10K 1005
R2802	1-218-961-81	s RES, CHIP 4.7K
R2803	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2804	1-218-961-81	s RES, CHIP 4.7K
R2805	1-218-965-81	s RES, CHIP 10K 1005
R2806	1-218-961-81	s RES, CHIP 4.7K
R2807	1-218-975-81	s RES, CHIP 68K
R2808	1-218-975-81	s RES, CHIP 68K
R2809	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2810	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2811	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2812	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2813	1-218-965-81	s RES, CHIP 10K 1005
R2814	1-218-961-81	s RES, CHIP 4.7K
R2825	1-218-989-81	s RES, CHIP 1M
R2827	1-218-965-81	s RES, CHIP 10K 1005
R2828	1-218-965-81	s RES, CHIP 10K 1005
R2829	1-218-965-81	s RES, CHIP 10K 1005
R2830	1-218-965-81	s RES, CHIP 10K 1005
R2851	1-218-965-81	s RES, CHIP 10K 1005
R2852	1-218-973-81	s RES, CHIP 47K
R2853	1-218-973-81	s RES, CHIP 47K
R2854	1-218-973-81	s RES, CHIP 47K
R2856	1-218-965-81	s RES, CHIP 10K 1005
R2857	1-218-965-81	s RES, CHIP 10K 1005
R2858	1-218-965-81	s RES, CHIP 10K 1005
R2859	1-218-965-81	s RES, CHIP 10K 1005
R2860	1-218-977-81	s RES, CHIP 100K
R2861	1-218-977-81	s RES, CHIP 100K
R2862	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2863	1-218-977-81	s RES, CHIP 100K
R2864	1-218-953-81	s RES, CHIP 1.0K
R2865	1-218-973-81	s RES, CHIP 47K
R2866	1-218-953-81	s RES, CHIP 1.0K
R2867	1-218-967-81	s RES, CHIP 15K
R2868	1-218-965-81	s RES, CHIP 10K 1005
R2869	1-218-971-81	s RES, CHIP 33K
R2871	1-218-973-81	s RES, CHIP 47K
RB1051	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1251	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1252	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1253	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1254	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1255	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1256	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1257	1-234-369-21	s RES, NETWORK 10 (1005X4)
RB1351	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB1352	1-234-369-21	s RES, NETWORK 10 (1005X4)

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Ref. No. or Q'ty	Part No.	SP	Description
RB1353	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1354	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1355	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1356	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1451	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1452	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1501	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1502	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1503	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1504	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1506	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1507	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1508	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1509	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1510	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1511	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1512	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1513	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1514	1-234-369-21	s	RES, NETWORK 10 (1005X4)
RB1901	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB1902	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2001	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2002	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2003	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2004	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2005	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2006	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2007	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2008	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2009	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2010	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2011	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2012	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2013	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB2014	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB2015	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB2016	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB2017	1-234-372-21	s	RES, NETWORK 100 (1005X4)
RB2201	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB2202	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB2203	1-234-381-21	s	RES, NETWORK 100K (1005X4)
RB2251	1-234-377-21	s	RES, NETWORK 4.7K (1005X4)
RB2252	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB2253	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB2254	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB2255	1-234-400-21	s	CONDUCTOR, NETWORK (1005X4)
RB2256	1-234-400-21	s	CONDUCTOR, NETWORK (1005X4)
RB2551	1-234-377-21	s	RES, NETWORK 4.7K (1005X4)
RB2552	1-234-378-21	s	RES, NETWORK 10K (1005X4)
VDR201	1-803-974-21	s	VARISTOR, CHIP (1608)
VDR202	1-803-974-21	s	VARISTOR, CHIP (1608)
VDR204	1-803-974-21	s	VARISTOR, CHIP (1608)
VDR205	1-803-974-21	s	VARISTOR, CHIP (1608)
X1051	1-795-831-12	s	OSCILLATOR, CRYSTAL (VCXO) 3.3V
X1052	1-795-670-12	s	OSCILLATOR, CRYSTAL (VCXO) 3.3V
X1053	1-795-671-12	s	OSCILLATOR, CRYSTAL (VCXO) 3.3V
X2251	1-813-070-21	s	PIEZOELECTRIC OSCILLATOR
X2551	1-813-070-21	s	PIEZOELECTRIC OSCILLATOR

CN-3446 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1859-359-A	s	MOUNTED CIRCUIT BOARD, CN-3446
CN5002	1-750-361-51	s	CONNECTOR, FFC/FPC (ZIF) 30P
CN5003	1-750-361-51	s	CONNECTOR, FFC/FPC (ZIF) 30P
CN5004	1-750-361-51	s	CONNECTOR, FFC/FPC (ZIF) 30P
CN5005	1-750-361-51	s	CONNECTOR, FFC/FPC (ZIF) 30P

DC-157 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1859-356-A	s	MOUNTED CIRCUIT BOARD, DC-157
C3501	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C3503	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
C3504	1-112-692-81	s	CAP,CHIP CERAMIC1000PF CH 1005
CN3501	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN3502	1-793-459-11	s	JACK,DC(POLARITY UNIFIED TYPE)
FB3501	1-400-580-21	s	FERRITE, EMI (SMD)
T3501	1-416-846-21	s	COIL, LINE FILTER

DD-48 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-349-A	s MOUNTED CIRCUIT BOARD, DD-48
C6001	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C6002	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6003	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C6004	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6005	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6006	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6007	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C6008	1-164-936-81	s CAP, CHIP CERAMIC 680PF B 1005
C6009	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6010	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6011	1-100-436-91	s CAP, CERAMIC 33000PF B (1608)
C6012	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6013	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C6014	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6015	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6016	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6017	1-114-728-91	o CAP, CERAMIC 22MF B 3216
C6018	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C6019	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6020	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6021	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C6022	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6023	1-100-581-81	s CAP,CHIP CERAMIC0.0047MF B1005
C6024	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6025	1-164-878-81	s CAP,CHIP CERAMIC 150PF CH 1005
C6026	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C6027	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C6028	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6029	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C6030	1-114-214-81	s CAP,CHIP CERAMIC470PF CH1005
C6031	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C6032	1-114-728-91	o CAP, CERAMIC 22MF B 3216
C6033	1-100-581-81	s CAP,CHIP CERAMIC0.0047MF B1005
C6034	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6035	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6036	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6037	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6038	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6039	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C6040	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C6041	1-100-436-91	s CAP, CERAMIC 33000PF B (1608)
C6042	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
C6043	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6044	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C6045	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6046	1-100-581-81	s CAP,CHIP CERAMIC0.0047MF B1005
C6047	1-100-597-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C6048	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
C6049	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6050	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
C6051	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6052	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6053	1-162-915-91	s CAP, CERAMIC 10PF CH 1608
C6054	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C6055	1-114-728-91	o CAP, CERAMIC 22MF B 3216
C6056	1-127-715-91	s CAP,CHIP CERAMIC 0.22MF B 1608
C6057	1-127-715-91	s CAP,CHIP CERAMIC 0.22MF B 1608

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Ref. No. or Q'ty	Part No.	SP Description
C6058	1-114-983-91	s CAP, CHIP CERAMIC 2.2MF B 1608
C6059	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C6060	1-164-868-81	s CAP, CHIP CERAMIC 56PF CH 1005
C6061	1-164-936-81	s CAP, CHIP CERAMIC 680PF B 1005
C6063	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
C6066	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C6067	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C6068	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6069	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6070	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
C6301	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C6302	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C6303	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6304	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6305	1-112-298-91	s CAP, CERAMIC 1MF B (1608)
C6601	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
C6602	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6603	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C6604	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C6605	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C6606	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C6607	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C6609	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
CN6001	1-764-529-51	s CONNECTOR, FFC/FPC (ZIF) 22P
CN6002	1-764-528-51	s CONNECTOR, FFC/FPC (ZIF) 21P
CN6003	1-764-093-21	o PIN, CONNECTOR (PC BOARD) 8P
CN6004	1-750-361-51	s CONNECTOR, FFC/FPC (ZIF) 30P
CN6005	1-750-361-51	s CONNECTOR, FFC/FPC (ZIF) 30P
CN6006	1-750-361-51	s CONNECTOR, FFC/FPC (ZIF) 30P
CN6007	1-750-361-51	s CONNECTOR, FFC/FPC (ZIF) 30P
D6001	8-719-066-82	s DIODE CL-200YG-C-TU
D6002	8-719-071-12	s DIODE CL-200D-C-TU
D6003	8-719-048-17	s DIODE MBR5130LT3
D6004	8-719-080-69	s DIODE M1FS4-4063
F6001	Δ 1-576-958-41	s MICRO FUSE-LINK (1608 TYPE) (4A/24V)
F6002	Δ 1-576-416-41	s MICRO FUSE-LINK (1608 TYPE) (2A/36V)
F6003	Δ 1-576-596-41	s MICRO FUSE-LINK (1608 TYPE) (1A/36V)
F6004	Δ 1-576-416-41	s MICRO FUSE-LINK (1608 TYPE) (2A/36V)
F6301	Δ 1-576-913-41	s MICRO FUSE-LINK (1608 TYPE) (1.6A/36V)
F6302	Δ 1-576-874-41	s MICRO FUSE-LINK (1608 TYPE) (2.5A/32V)
F6303	Δ 1-576-416-41	s MICRO FUSE-LINK (1608 TYPE) (2A/36V)
FB1841	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB1842	1-400-382-21	s EMI FERRITE (SMD) (1608)
FB1848	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB1851	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB1856	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB1857	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB1858	1-400-462-21	s FERRITE, EMI (SMD) (1005)
IC6001	6-600-796-01	s IC TSOP38240
IC6002	6-600-796-01	s IC TSOP38240
IC6003	6-706-893-01	s IC TPS54350PWPR
IC6004	6-703-721-01	s IC TPS54310PWPR
IC6005	6-707-444-01	s IC TPS62040DRC
IC6006	6-706-893-01	s IC TPS54350PWPR
IC6007	6-711-691-01	s IC TPS63700DRCR
IC6008	6-706-879-01	s IC TPS62020DRCR
IC6601	8-759-598-44	s IC TC7WH08FK

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Ref. No. or Q'ty	Part No.	SP	Description
L6001	1-457-455-11	s	CHOKE COIL 10UH
L6002	1-457-455-11	s	CHOKE COIL 10UH
L6003	1-416-948-21	s	COIL, CHOKE (SMD) 10UH
L6004	1-457-439-11	s	CHOKE COIL (SMD) 4.7UH
L6005	1-416-948-21	s	COIL, CHOKE (SMD) 10UH
L6006	1-457-455-11	s	CHOKE COIL 10UH
L6008	1-481-035-11	s	INDUCTOR (10UH)
L6009	1-416-948-21	s	COIL, CHOKE (SMD) 10UH
L6010	1-457-454-11	s	CHOKE COIL 47UH
L6011	1-457-454-11	s	CHOKE COIL 47UH
L6012	1-457-455-11	s	CHOKE COIL 10UH
L6013	1-457-439-11	s	CHOKE COIL (SMD) 4.7UH
L6014	1-457-439-11	s	CHOKE COIL (SMD) 4.7UH
L6302	1-457-455-11	s	CHOKE COIL 10UH
L6602	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L6603	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L6604	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
Q6003	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q6004	6-552-545-01	s	TR SI4425DDY-T1-GE3
Q6005	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q6006	6-550-750-01	s	TRANSISTOR SSM3K15FS-TE85L
Q6007	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q6310	8-729-928-91	s	TRANSISTOR DTC114EE-TL
Q6311	8-729-928-91	s	TRANSISTOR DTC114EE-TL
Q6312	8-729-928-91	s	TRANSISTOR DTC114EE-TL
Q6601	8-729-928-82	s	TRANSISTOR DTC144EE-TL
Q6602	8-729-928-82	s	TRANSISTOR DTC144EE-TL
R6003	1-218-967-81	s	RES, CHIP 15K
R6004	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6005	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6006	1-218-953-81	s	RES, CHIP 1.0K
R6007	1-216-837-91	s	RES, CHIP 22K (1608)
R6008	1-216-825-91	s	RES, CHIP 2.2K (1608)
R6009	1-218-967-81	s	RES, CHIP 15K
R6010	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R6011	1-218-963-81	s	RES, CHIP 6.8K
R6012	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6013	1-218-963-81	s	RES, CHIP 6.8K
R6014	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6015	1-208-894-81	s	RES, CHIP 2.0K (1005)
R6016	1-208-894-81	s	RES, CHIP 2.0K (1005)
R6017	1-218-965-81	s	RES, CHIP 10K 1005
R6018	1-218-969-81	s	RES, CHIP 22K
R6020	1-208-898-81	s	RES, CHIP 3.0K (1005)
R6021	1-208-935-81	s	RES, CHIP 100K (1005)
R6022	1-208-864-81	s	RES, CHIP 110 (1005)
R6023	1-208-909-81	s	RES, CHIP 8.2K (1005)
R6024	1-208-911-81	s	RES, CHIP 10K (1005)
R6025	1-208-939-81	s	RES, CHIP 150K (1005)
R6026	1-208-924-81	s	RES, CHIP 36K (1005)
R6027	1-208-922-81	s	RES, CHIP 30K (1005)
R6028	1-208-876-81	s	RES, CHIP 360 (1005)
R6029	1-208-914-81	s	RES, CHIP 13K (1005)
R6030	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6031	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6032	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6033	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6034	1-216-864-91	s	CONDUCTOR, CHIP (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R6035	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6036	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6037	1-208-891-81	s	RES, CHIP 1.5K (1005)
R6038	1-208-894-81	s	RES, CHIP 2.0K (1005)
R6040	1-216-797-91	s	RES, CHIP 10 (1608)
R6041	1-208-894-81	s	RES, CHIP 2.0K (1005)
R6042	1-208-911-81	s	RES, CHIP 10K (1005)
R6043	1-208-862-81	s	RES, CHIP 91 (1005)
R6044	1-208-897-81	s	RES, CHIP 2.7K (1005)
R6045	1-208-937-81	s	RES, CHIP 120K (1005)
R6046	1-208-955-81	s	RES, CHIP 680K (1005)
R6047	1-208-935-81	s	RES, CHIP 100K (1005)
R6048	1-208-931-81	s	RES, CHIP 68K (1005)
R6049	1-208-933-81	s	RES, CHIP 82K (1005)
R6052	1-208-945-81	s	RES, CHIP 270K (1005)
R6053	1-208-922-81	s	RES, CHIP 30K (1005)
R6056	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6057	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6058	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6059	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6060	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6061	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6062	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6063	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6064	1-218-941-81	s	RES, CHIP 100
R6065	1-218-941-81	s	RES, CHIP 100
R6066	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6067	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6068	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6069	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6070	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6071	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6072	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6073	1-216-793-91	s	RES, CHIP 4.7 (1608)
R6074	1-216-793-91	s	RES, CHIP 4.7 (1608)
R6075	1-208-891-81	s	RES, CHIP 1.5K (1005)
R6310	1-218-961-81	s	RES, CHIP 4.7K
R6311	1-218-961-81	s	RES, CHIP 4.7K
R6312	1-218-961-81	s	RES, CHIP 4.7K
R6313	1-218-973-81	s	RES, CHIP 47K
R6314	1-218-973-81	s	RES, CHIP 47K
R6315	1-218-973-81	s	RES, CHIP 47K
R6316	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6317	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6318	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6319	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6320	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6321	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R6401	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R6402	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R6601	1-216-813-91	s	RES, CHIP 220 (1608)
R6602	1-216-813-91	s	RES, CHIP 220 (1608)
R6603	1-218-937-81	s	RES, CHIP 47
R6604	1-218-937-81	s	RES, CHIP 47
S6001	1-692-270-41	s	SWITCH, SLIDE
S6002	1-692-270-41	s	SWITCH, SLIDE
S6003	1-692-270-41	s	SWITCH, SLIDE
S6004	1-692-270-41	s	SWITCH, SLIDE
S6005	1-572-595-21	s	SWITCH, TACTILE (REFLOW TYPE)
VDR002	1-803-974-21	s	VARISTOR, CHIP (1608)

DR-667 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-354-A	s MOUNTED CIRCUIT BOARD, DR-667
C3001	1-137-894-21	s CAP, CHIP ELECT 470MF
C3002	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C3003	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C3004	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3005	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3006	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3007	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3008	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3009	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3010	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3011	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C3012	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3013	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3014	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C3015	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3017	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
C3018	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
C3019	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
C3020	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
C3021	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
C3022	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3023	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3024	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3025	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C3026	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
CN3001	1-764-528-51	s CONNECTOR, FFC/FPC (ZIF) 21P
CN3002	1-764-516-51	s CONNECTOR, FFC/FPC (ZIF) 6P
CN3003	1-691-550-21	s PIN, CONNECTOR (1.5MM) (SMD) 3P
IC3001 Δ	1-417-914-11	s DRIVER, STEPPING MOTOR
IC3002	6-707-885-01	s IC TC74VHCT08AFT(EKJ)
IC3004	6-707-877-01	s IC TC74VHC32FT(EKJ)
IC3005	6-706-484-01	s IC TC7SH04FU
IC3006	6-707-863-01	s IC TC74VHC08FT(EKJ)
IC3007	6-706-484-01	s IC TC7SH04FU
IC3008	6-706-489-01	s IC TC7SH32FU
L3001	1-460-379-11	s COIL, CHOKE (SMD) 100UH
R3005	1-216-809-91	s RES, CHIP 100 (1608)
R3006	1-216-809-91	s RES, CHIP 100 (1608)
R3007	1-216-809-91	s RES, CHIP 100 (1608)
R3008	1-216-809-91	s RES, CHIP 100 (1608)
R3009	1-216-809-91	s RES, CHIP 100 (1608)

IR-55 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-355-A	s MOUNTED CIRCUIT BOARD, IR-55
C4501	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C4502	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C4503	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C4504	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
CN4501	1-691-550-21	s PIN, CONNECTOR (1.5MM) (SMD) 3P
IC4501	6-600-796-01	s IC TSOP38240
L4501	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
R4501	1-218-937-81	s RES, CHIP 47

LED-509 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-358-A	s MOUNTED CIRCUIT BOARD, LED-509
C8001	1-114-419-21	s CAP, CERAMIC 10MF B (2012)
CN8001	1-691-550-21	s PIN, CONNECTOR (1.5MM) (SMD) 3P
D8004	6-502-598-01	s DI SML-D12U8WT86
D8005	6-502-598-01	s DI SML-D12U8WT86
D8006	6-502-598-01	s DI SML-D12U8WT86
L8001	1-481-035-11	s INDUCTOR (10UH)
Q8001	8-729-928-91	s TRANSISTOR DTC114EE-TL
R8001	1-218-953-81	s RES, CHIP 1.0K
R8002	1-218-965-81	s RES, CHIP 10K 1005
R8004	1-218-835-91	s RES, CHIP 330 (1608)
R8012	1-218-835-91	s RES, CHIP 330 (1608)
R8020	1-218-835-91	s RES, CHIP 330 (1608)

LED-513 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-360-A	s MOUNTED CIRCUIT BOARD, LED-513
C8501	1-164-937-81	s CAP, CHIP CERAMIC 1000PF B 1005
CN8501	1-695-320-21	o PIN, CONNECTOR (1.5MM) (SMD) 2P
D8501	6-502-598-01	s DI SML-D12U8WT86
R8501	1-218-837-91	s RES, CHIP 390 (1608)

PS-842 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-353-A	s MOUNTED CIRCUIT BOARD, PS-842
C5501	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C5502	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
CN5501	1-764-516-51	s CONNECTOR, FFC/FPC (ZIF) 6P
L5501	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
R5501	1-218-947-81	s RES, CHIP 330
R5502	1-218-973-81	s RES, CHIP 47K
R5503	1-218-947-81	s RES, CHIP 330
R5504	1-218-973-81	s RES, CHIP 47K
R5505	1-218-947-81	s RES, CHIP 330
R5506	1-218-973-81	s RES, CHIP 47K

SW-1532 BOARD

Ref. No. or Q'ty	Part No.	SP Description
C7001	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C7002	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C7003	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C7004	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C7005	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7006	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7007	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7008	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7009	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7010	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7011	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7012	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7013	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7014	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7015	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7016	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7017	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7018	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7019	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7020	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7021	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7022	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7023	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7024	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7025	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7026	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7027	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C7037	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
CN7001	1-764-530-51	s CONNECTOR, FFC/FPC (ZIF) 23P
CN7002	1-750-504-61	s CONNECTOR, FFC/FPC (ZIF) 20P
CN7004	1-818-449-11	s RECEPTACLE, CONNECTOR 9PIN
D7023	8-719-083-04	s DIODE RSB6.8STE61
D7024	8-719-083-04	s DIODE RSB6.8STE61
D7025	8-719-083-04	s DIODE RSB6.8STE61
D7026	8-719-083-04	s DIODE RSB6.8STE61
D7027	8-719-083-04	s DIODE RSB6.8STE61
D7028	8-719-083-04	s DIODE RSB6.8STE61
D7029	8-719-083-04	s DIODE RSB6.8STE61
D7030	8-719-083-04	s DIODE RSB6.8STE61
D7031	8-719-083-63	s DI UDZSUSTE-1713B
D7032	8-719-083-63	s DI UDZSUSTE-1713B
D7033	8-719-083-63	s DI UDZSUSTE-1713B
D7034	8-719-083-63	s DI UDZSUSTE-1713B
D7039	8-719-083-63	s DI UDZSUSTE-1713B
D7040	8-719-083-63	s DI UDZSUSTE-1713B
D7041	8-719-083-63	s DI UDZSUSTE-1713B
D7042	8-719-083-63	s DI UDZSUSTE-1713B
D7043	8-719-083-04	s DIODE RSB6.8STE61
D7044	8-719-083-63	s DI UDZSUSTE-1713B
D7045	8-719-083-63	s DI UDZSUSTE-1713B
D7046	8-719-083-63	s DI UDZSUSTE-1713B
D7047	8-719-083-63	s DI UDZSUSTE-1713B
D7048	8-719-083-63	s DI UDZSUSTE-1713B
D7049	8-719-083-63	s DI UDZSUSTE-1713B
D7050	8-719-083-63	s DI UDZSUSTE-1713B
D7051	8-719-083-63	s DI UDZSUSTE-1713B
D7052	8-719-083-63	s DI UDZSUSTE-1713B
D7053	8-719-083-63	s DI UDZSUSTE-1713B

(SW-1532 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D7054	8-719-083-63	s DI UDZSUSTE-1713B
D7055	8-719-083-63	s DI UDZSUSTE-1713B
D7056	8-719-083-63	s DI UDZSUSTE-1713B
D7057	8-719-083-63	s DI UDZSUSTE-1713B
D7058	8-719-083-63	s DI UDZSUSTE-1713B
D7059	8-719-083-63	s DI UDZSUSTE-1713B
D7060	8-719-083-63	s DI UDZSUSTE-1713B
D7061	8-719-083-63	s DI UDZSUSTE-1713B
D7062	8-719-083-63	s DI UDZSUSTE-1713B
D7063	8-719-083-63	s DI UDZSUSTE-1713B
D7064	8-719-083-63	s DI UDZSUSTE-1713B
D7065	8-719-083-63	s DI UDZSUSTE-1713B
D7066	8-719-083-63	s DI UDZSUSTE-1713B
D7067	8-719-083-63	s DI UDZSUSTE-1713B
FB7001	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7002	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7003	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7004	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7005	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7006	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7007	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7008	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7009	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7010	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7011	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7012	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7013	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7014	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7015	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7016	1-414-593-21	s INDUCTOR, FERRITE BEAD
FB7017	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7018	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7019	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7020	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7021	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7022	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7023	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7024	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB7025	1-414-445-21	s FERRITE, EMI (SMD) (1608)
FL7001	1-234-493-21	s FILTER, EMI
FL7002	1-234-493-21	s FILTER, EMI
FL7003	1-239-896-22	s FILTER, EMI (SMD)
IC7002	8-759-598-44	s IC TC7WH08FK
L7001	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L7002	1-412-967-41	s INDUCTOR, SMALL TYPE 0.10UH
L7003	1-412-967-41	s INDUCTOR, SMALL TYPE 0.10UH
L7004	1-412-967-41	s INDUCTOR, SMALL TYPE 0.10UH
L7005	1-412-967-41	s INDUCTOR, SMALL TYPE 0.10UH
L7006	1-412-967-41	s INDUCTOR, SMALL TYPE 0.10UH
L7007	1-412-967-41	s INDUCTOR, SMALL TYPE 0.10UH
R7001	1-216-864-91	s CONDUCTOR, CHIP (1608)
R7002	1-216-864-91	s CONDUCTOR, CHIP (1608)
R7003	1-218-937-81	s RES, CHIP 47
R7004	1-211-990-91	s RES, CHIP 75 (1608)
R7005	1-218-953-81	s RES, CHIP 1.0K
R7006	1-218-989-81	s RES, CHIP 1M
R7007	1-218-989-81	s RES, CHIP 1M

(SW-1532 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB7010	1-234-378-21	s RES, NETWORK 10K (1005X4)
VDR301	1-803-974-21	s VARISTOR, CHIP (1608)

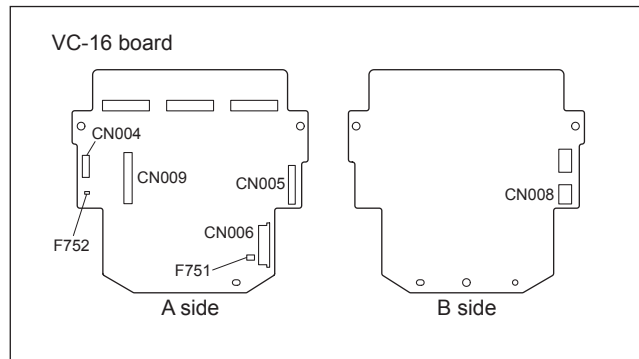
6-4. Packing Materials & Supplied Accessories

TSI-66 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1859-352-A	s MOUNTED CIRCUIT BOARD, TSI-66
C4001	1-114-582-91	s CAP, CERAMIC 0.1MF B 1005
C4002	1-112-815-91	s CAP, CERAMIC 10MF C (1608)
CN4001	1-764-516-51	s CONNECTOR, FFC/FPC (ZIF) 6P
L4001	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
R4004	1-218-947-81	s RES, CHIP 330
R4005	1-218-973-81	s RES, CHIP 47K
R4006	1-218-947-81	s RES, CHIP 330
R4007	1-218-973-81	s RES, CHIP 47K
R4008	1-218-947-81	s RES, CHIP 330
R4009	1-218-973-81	s RES, CHIP 47K

VC-16 BOARD

Ref. No. or Q'ty	Part No.	SP Description
CN004	1-794-377-21	s PIN, CONNECTOR 8P
CN005	1-843-302-21	s CONNECTOR, COAXIAL 20P
CN006	1-573-362-61	s CONNECTOR, FFC/FPC (ZIF) 22P
CN008	1-580-056-21	s PIN, CONNECTOR (SMD) 3P
CN009	1-750-361-51	s CONNECTOR, FFC/FPC (ZIF) 30P
F751	Δ 1-576-596-41	s MICRO FUSE-LINK (1608 TYPE) (1A/36V)
F752	Δ 1-576-596-41	s MICRO FUSE-LINK (1608 TYPE) (1A/36V)



PACKING MATERIALS & SUPPLIED ACCESSORIES

*a: [BRC-H900 (J)]
 *b: [BRC-H900 (CE)]
 *c: [BRC-H900 (UC)]
 *d: [BRC-H900 (CN)]

Ref. No.
or Q'ty Part No. SP Description

1pc A-1444-799-A s BRACKET (B) ASSY, SEALING
 1pc A-1874-546-A s BRACKET (A) ASSY, SEALING
 1pc 1-476-990-21 s REMOTE COMMANDER
 1pc Δ 1-492-005-11 s ADAPTOR, AC
 1pc *b Δ 1-575-131-61 s CORD, POWER (250V/2.5A)

1pc *c Δ 1-757-562-11 s CORD, POWER (125V/7A)
 1pc *d Δ 1-782-476-62 s CORD, POWER (250V/2.5A)
 1pc *a Δ 1-790-732-32 s CORD, POWER (125V/6A)
 1pc 1-818-103-11 s PLUG, CONNECTOR 9P
 7pcs 2-580-593-01 s SCREW, +PSW M3X8

1pc 3-854-220-01 s ROPE, WIRE
 1pc 3-872-236-01 s SW +P 4X8
 1pc 4-208-662-01 s STOPPER, DC CABLE PUNCHING
 1pc *a Δ 4-422-803-02 s MANUAL, INSTRUCTION (JAPANESE)

1pc *b*c Δ 4-422-803-12 s MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH)

1pc *b Δ 4-422-803-22 s MANUAL, INSTRUCTION (GERMAN, ITALIAN, SIMPLIFIED CHINESE)

1pc *d Δ 4-422-803-31 s MANUAL, INSTRUCTION (SIMPLIFIED CHINESE)

1pc *a Δ 4-455-103-01 s IP OPERATION GUIDE (JAPANESE)

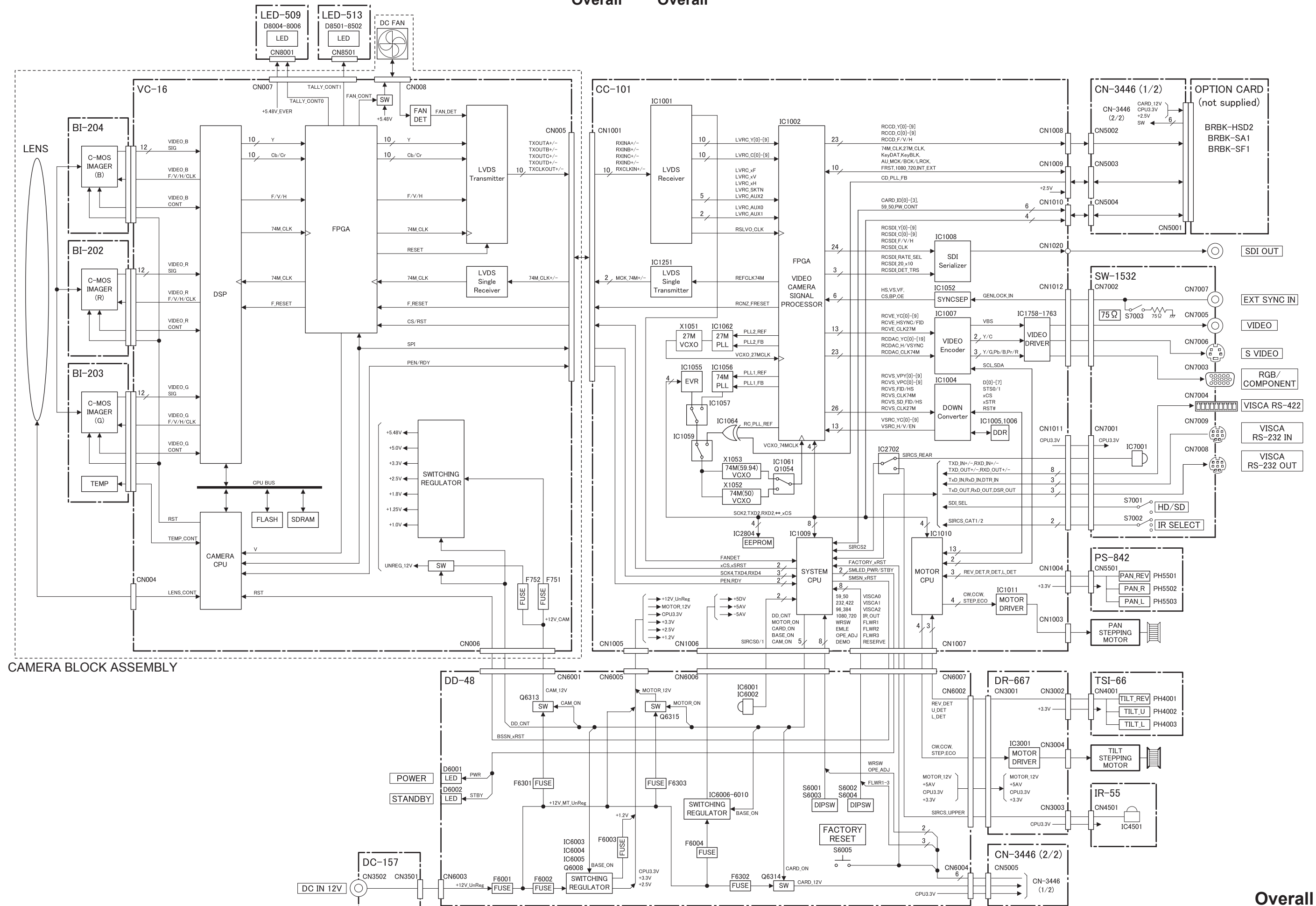
1pc *b*c Δ 4-455-103-11 s IP OPERATION GUIDE (ENGLISH, FRENCH, SPANISH)

1pc *b Δ 4-455-103-21 s IP OPERATION GUIDE (GERMAN, ITALIAN, SIMPLIFIED CHINESE)

1pc *d Δ 4-455-103-31 s IP OPERATION GUIDE (SIMPLIFIED CHINESE)

Section 7
Block Diagrams

Overall	Overall
1	1
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Section 8

Schematic Diagrams

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LED-513	8-32
PS-842	8-32
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SUFFIX: -11

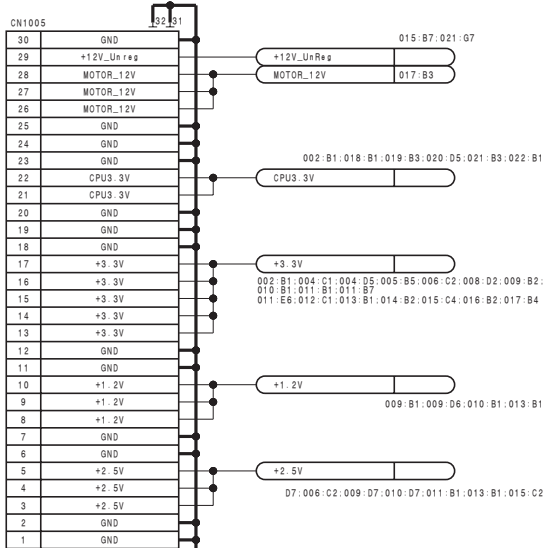
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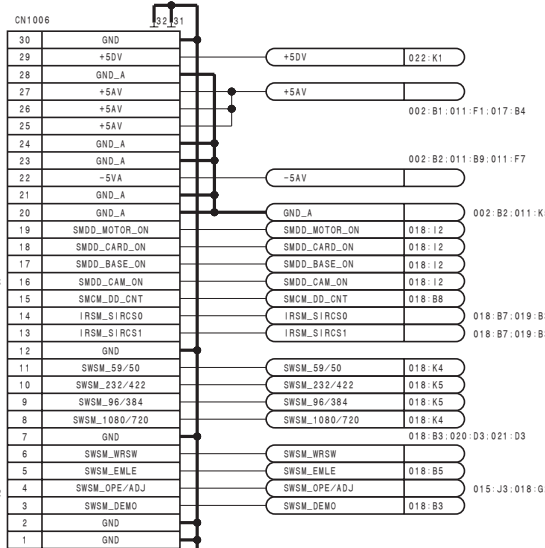
CC-101 (1/21)
BOARD NO. 1-884-703-11

For DD-48

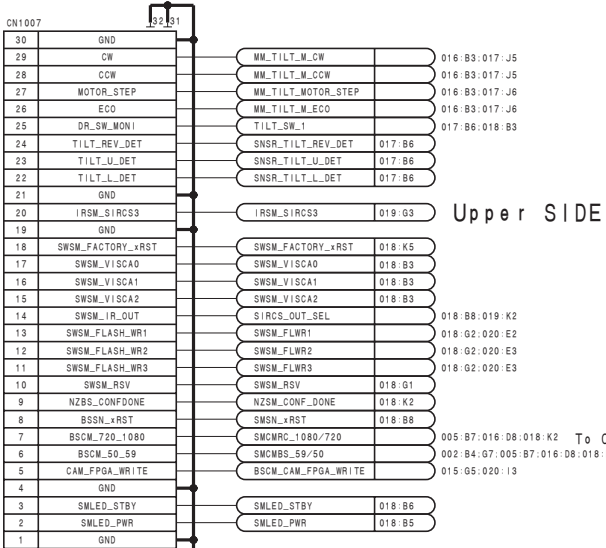
CN1005
To DD-48 CN6005
30pin



CN1006
To DD-48 CN6006
30pin

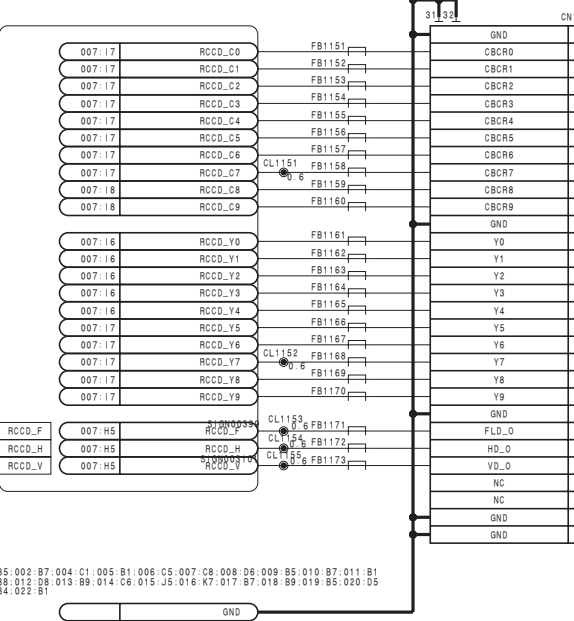


CN1007
To DD-48 CN6007
30pin

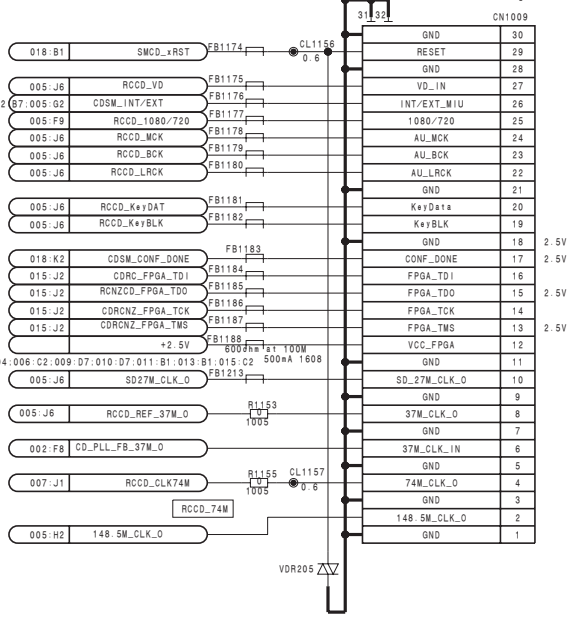


For CN-3446

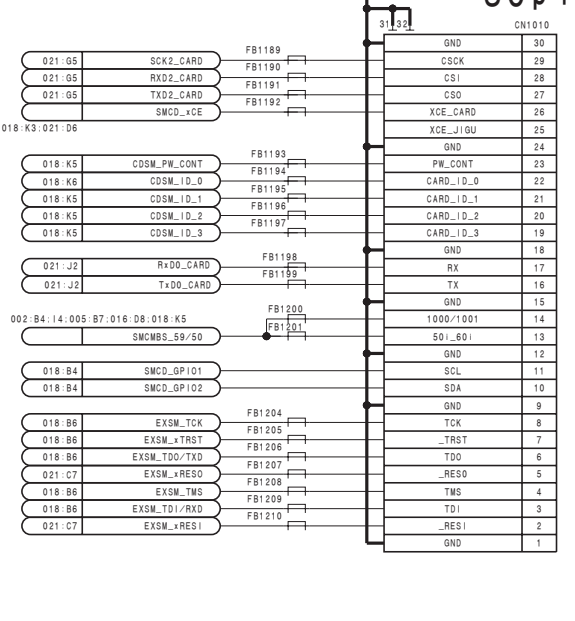
CN1008
To CN-3446 CN5002
30pin



CN1009
To CN-3446 CN5003
30pin



CN1010
To CN-3446 CN5004
30pin



001:B5:002:B7:004:C1:005:B1:006:C5:007:C8:008:D6:009:B5:010:B7:011:B1:011:B8:012:D8:013:B9:014:C6:015:J5:016:K7:017:B7:018:B9:019:B5:020:D5:021:B4:022:B1

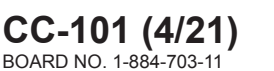
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CC-101 (4/21)

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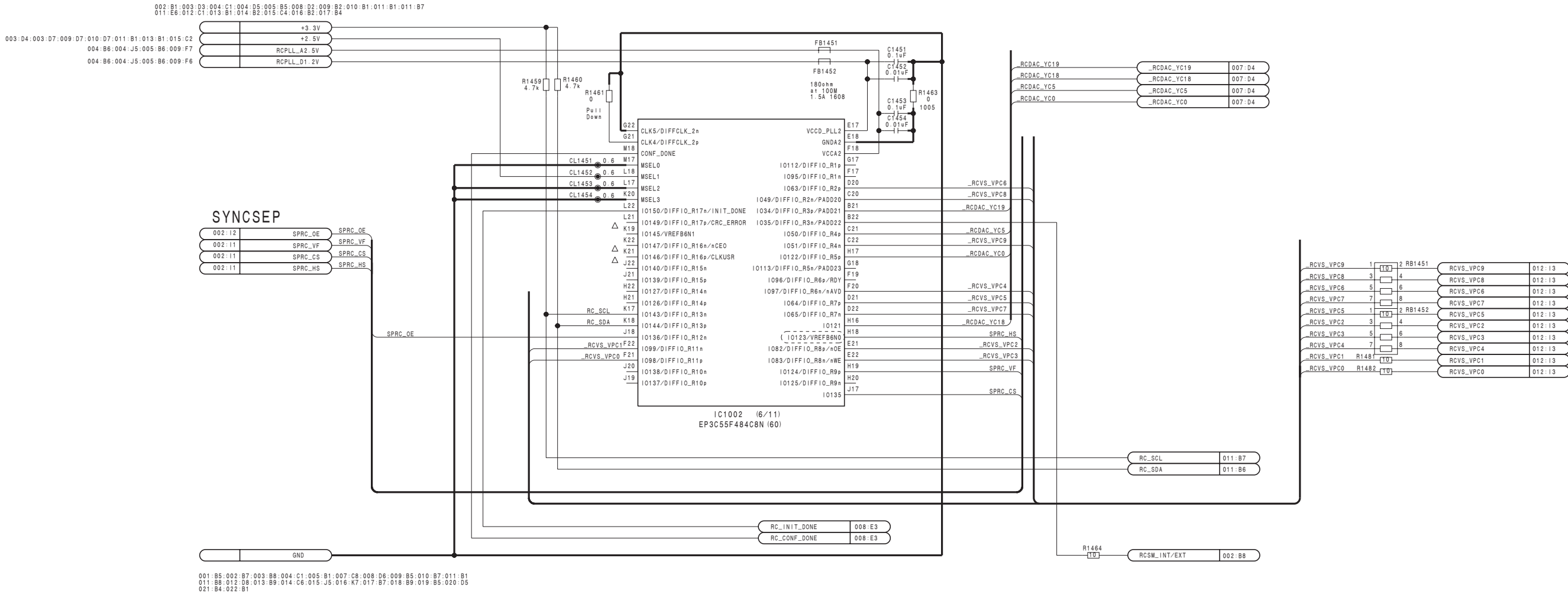
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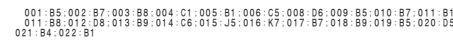
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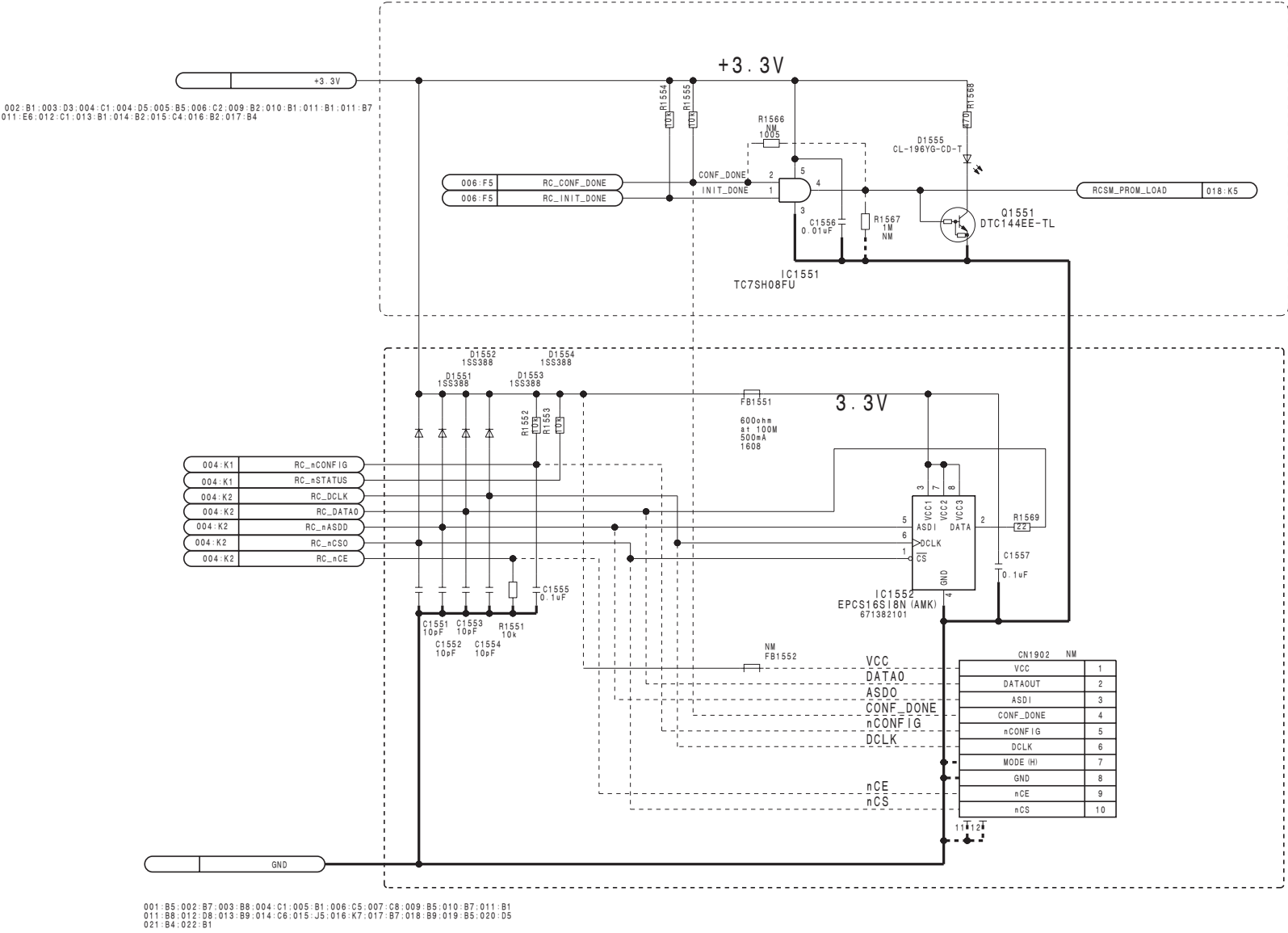
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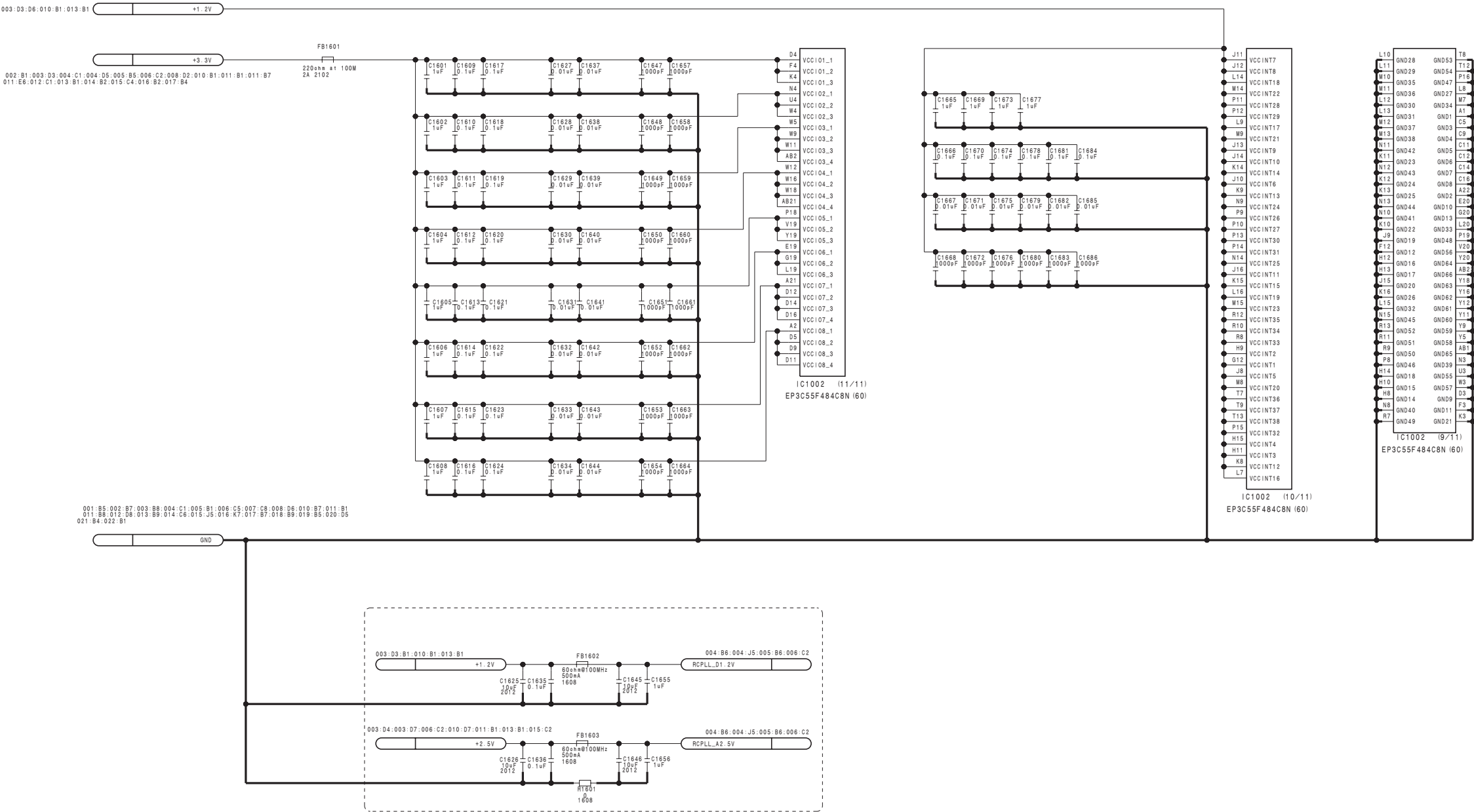
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002:B1:003:D3:004:C1:004:D5:005:B5:006:C2:008:D2:009:B2:011:B1:011:B7
011:E6:012:C1:013:B1:014:B2:015:C4:016:B2:017:B4

003:D3:009:B1:009:D6:013:B1

+3.3V

+1.2V

+3.3V

+3.3V

005:J2	RCSDI_F	RCSDI_F
005:J2	RCSDI_V	RCSDI_V
005:J2	RCSDI_H	RCSDI_H
005:J5	RCSDI_CLK	
005:J3	RCSDI_Y9	RCSDI_Y9
005:J3	RCSDI_Y8	RCSDI_Y8
005:J3	RCSDI_Y7	RCSDI_Y7
005:J3	RCSDI_Y6	RCSDI_Y6
005:J3	RCSDI_Y5	RCSDI_Y5
005:J3	RCSDI_Y4	RCSDI_Y4
005:J3	RCSDI_Y3	RCSDI_Y3
005:J3	RCSDI_Y2	RCSDI_Y2
005:J3	RCSDI_Y1	RCSDI_Y1
005:J3	RCSDI_Y0	RCSDI_Y0

005:J4	RCSDI_C9	RCSDI_C9
005:J4	RCSDI_C8	RCSDI_C8
005:J4	RCSDI_C7	RCSDI_C7
005:J4	RCSDI_C6	RCSDI_C6
005:J4	RCSDI_C5	RCSDI_C5
005:J4	RCSDI_C4	RCSDI_C4
005:J4	RCSDI_C3	RCSDI_C3
005:J4	RCSDI_C2	RCSDI_C2
005:J4	RCSDI_C1	RCSDI_C1
005:J4	RCSDI_C0	RCSDI_C0

018:B6	SMSDI_STBY	
005:G2	RCSDI_RATE_SEL	
005:G2	RCSDI_20/x10	
005:G2	RCSDI_DET_TRS	

001:B5:002:B7:003:B8:004:C1:005:B1:006:C5:007:C8:008:D6:009:B5:011:B1
011:B8:012:D8:013:B9:014:C6:015:J5:016:K7:017:B7:018:B9:019:B5:020:D5
021:B4:022:B1

003:D4:003:D7:006:C2:009:D7:011:B1:013:B1:015:C2

+2.5V

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R4382

1608

600mA

500mA

C1730

0.47uF

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1608

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R1745

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R1887

10K

R1888

10K

R1889

10K

R1890

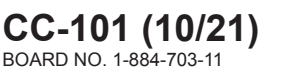
10K

R1891

10

SUFFIX: -11

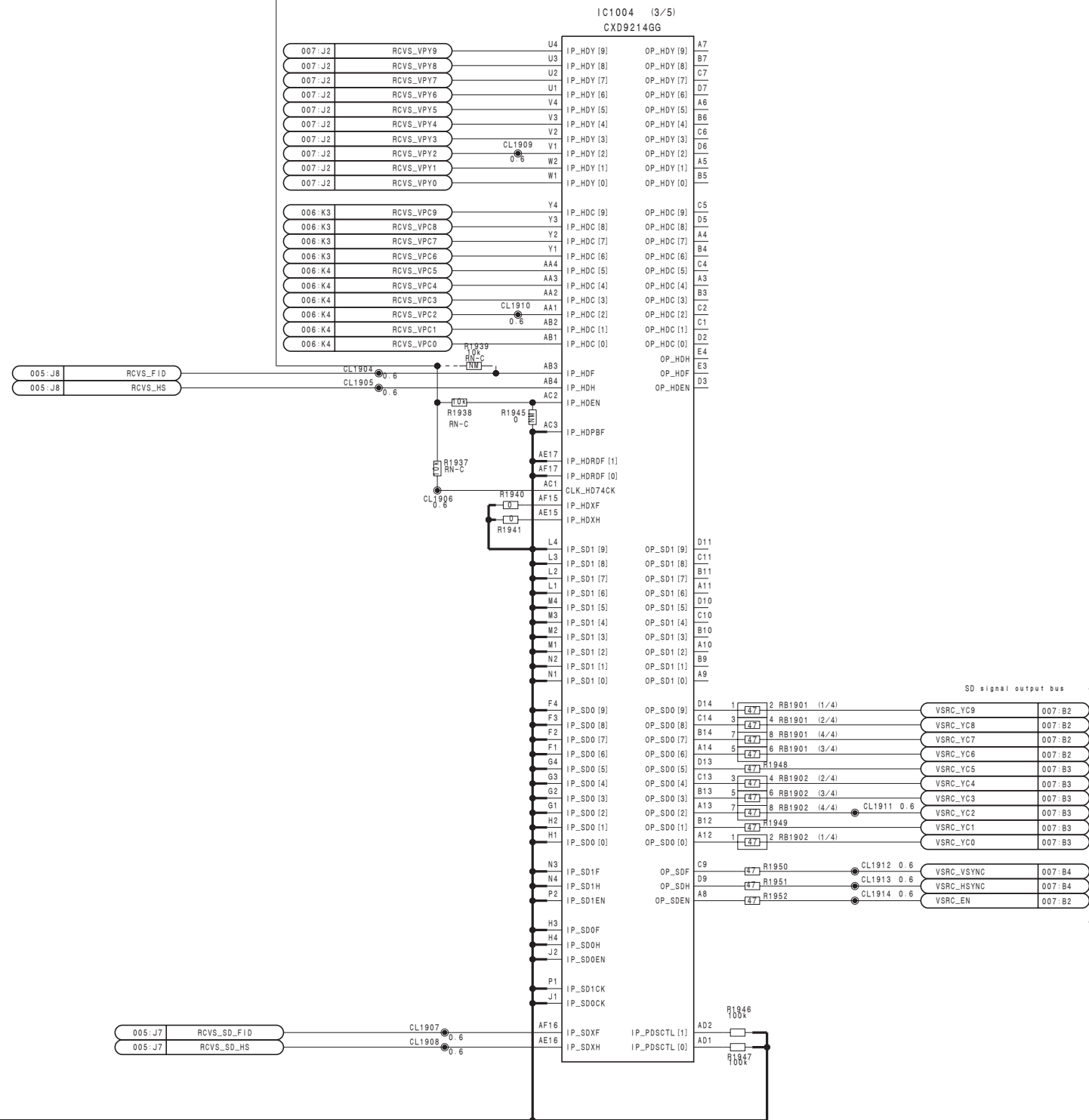
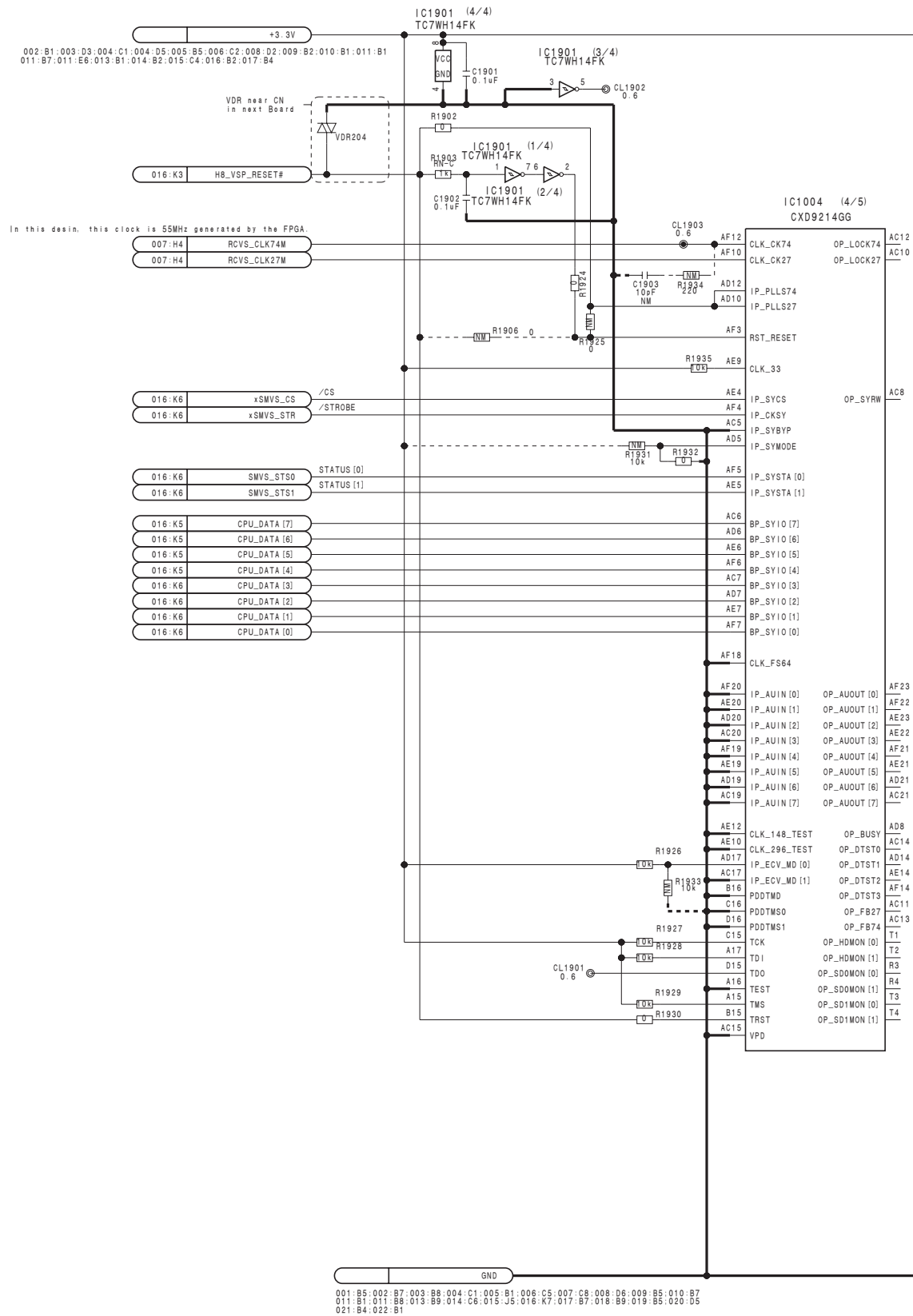
SUFFIX: -11



SUFFIX: -11

3.3V

SUFFIX: -11



BOARD NO. 1-884-703-11

BRC-H900

SUFFIX: -11

SUFFIX: -11



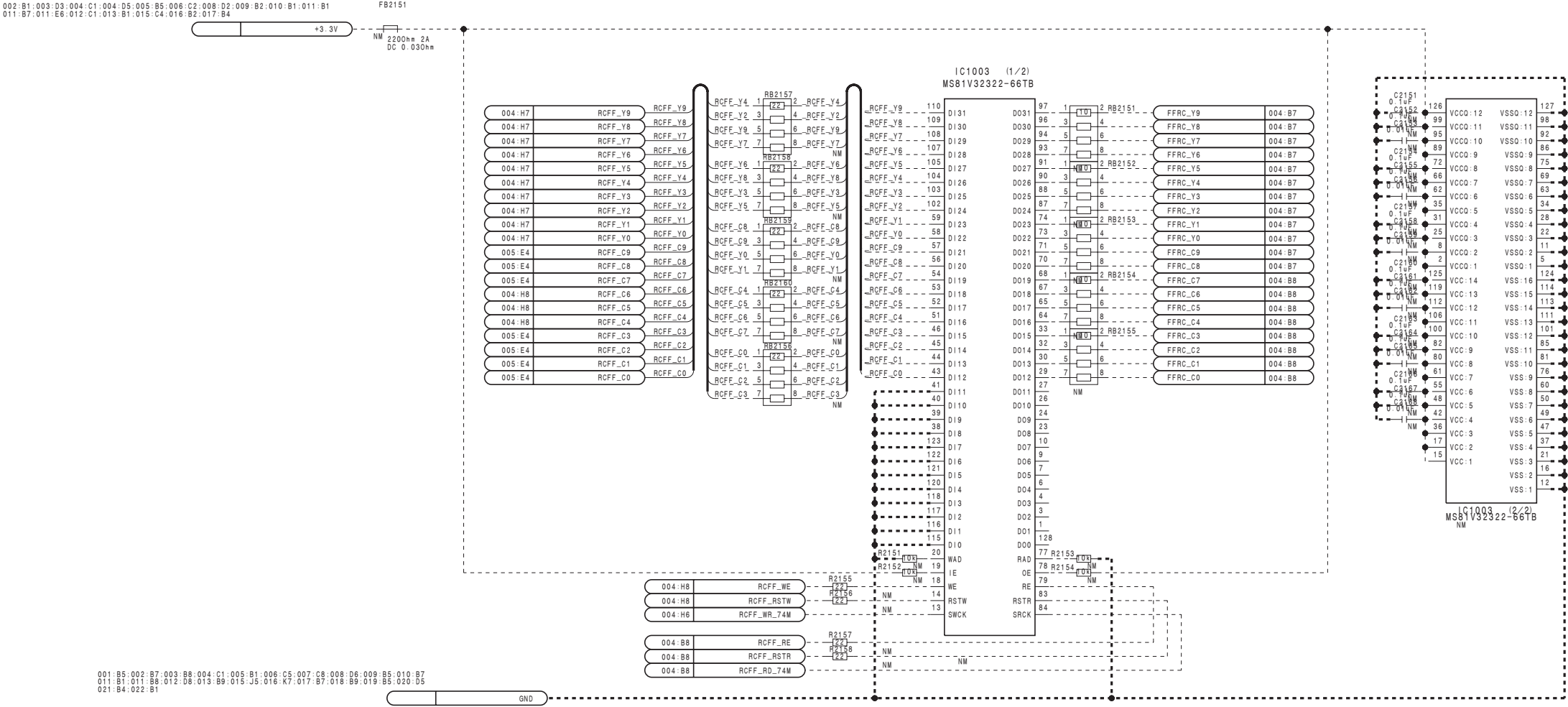
BOARD NO. 1-884-703-11

CC-101 (13/21)

SUFFIX: -11

CC-101 (13/21)

SUFFIX: -11



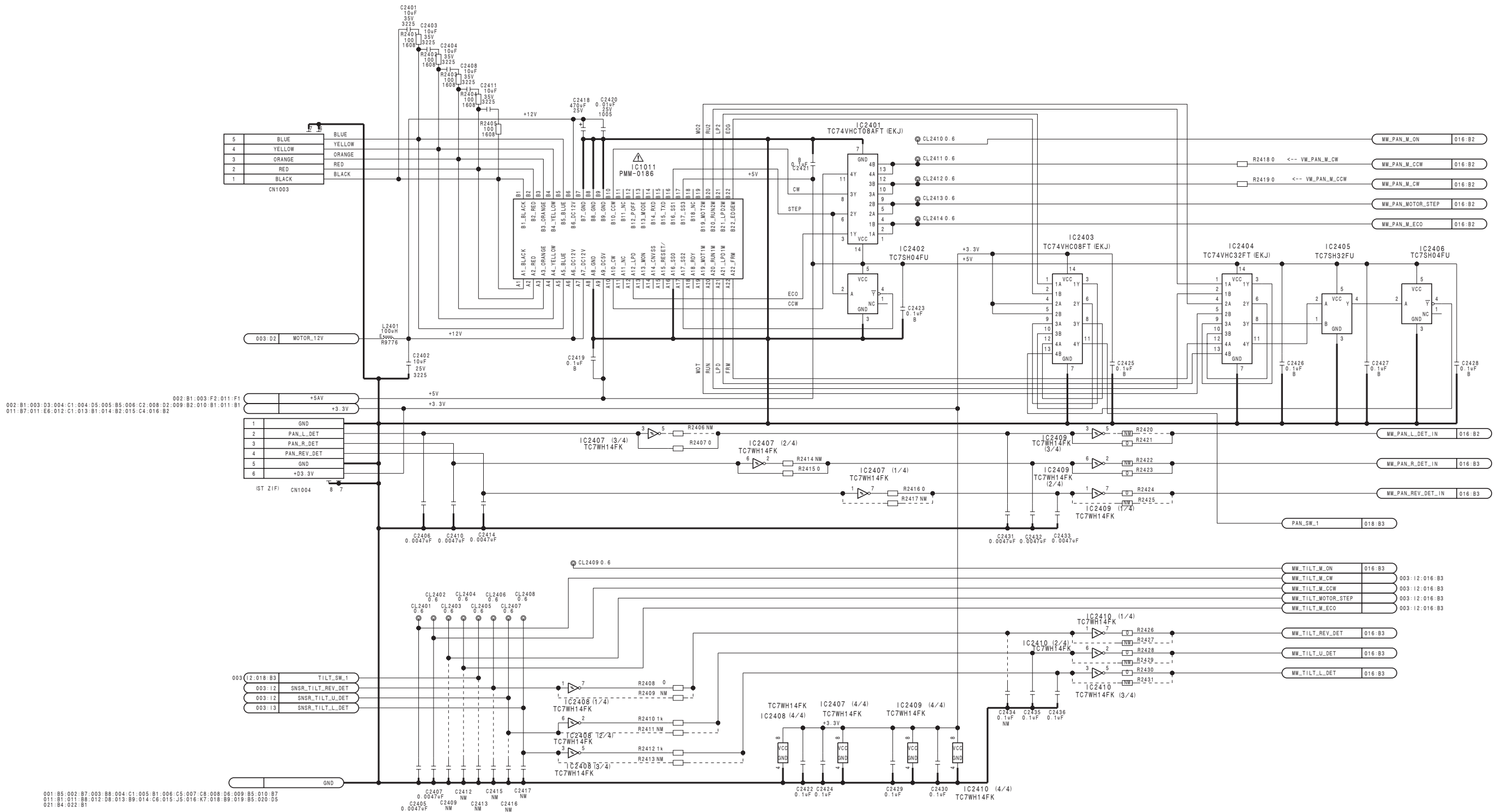
SUFFIX: -11

SUFFIX: -11



BOARD NO. 1-884-703-11





PAN MOTOR CONTROL PAN TILT SENSOR

SUFFIX: -11

SUFFIX: -11



BRC-H900

SUFFIX: -11

SUFFIX: -11



A

B

C

D

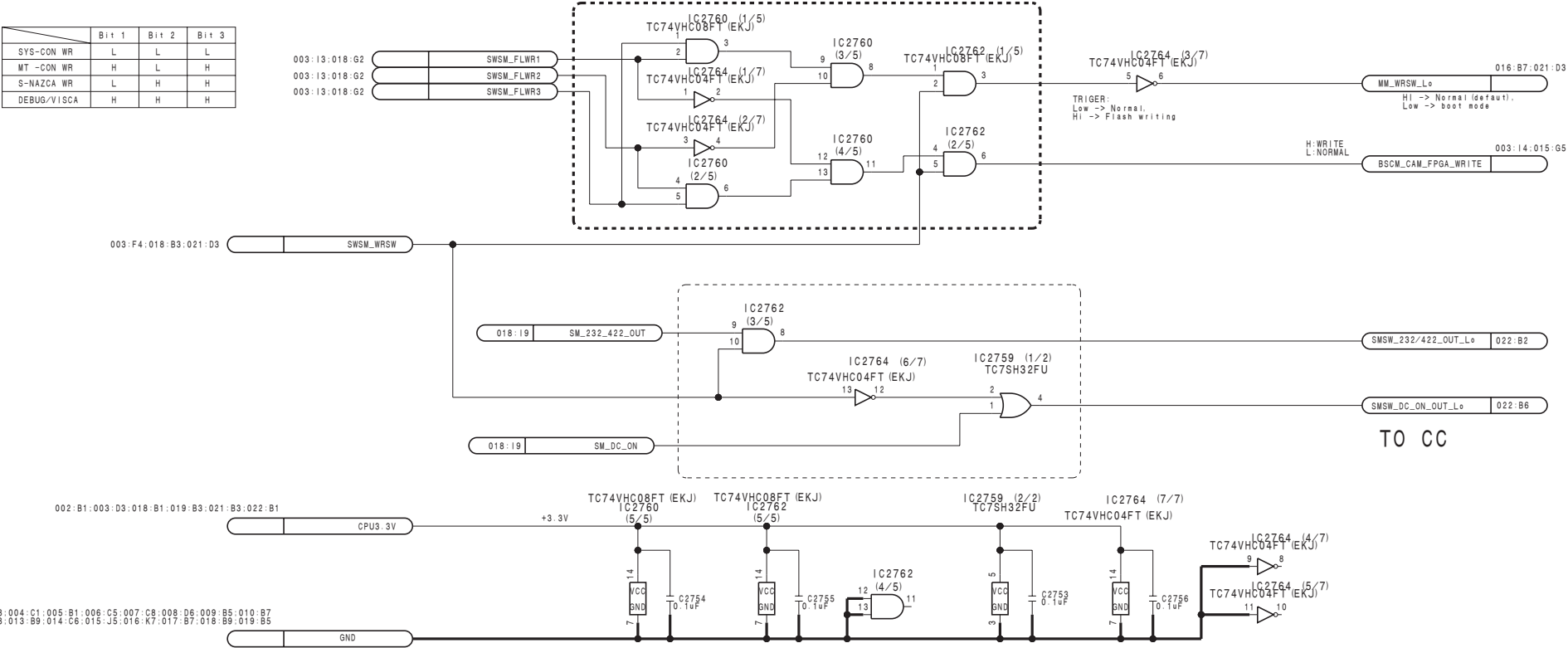
E

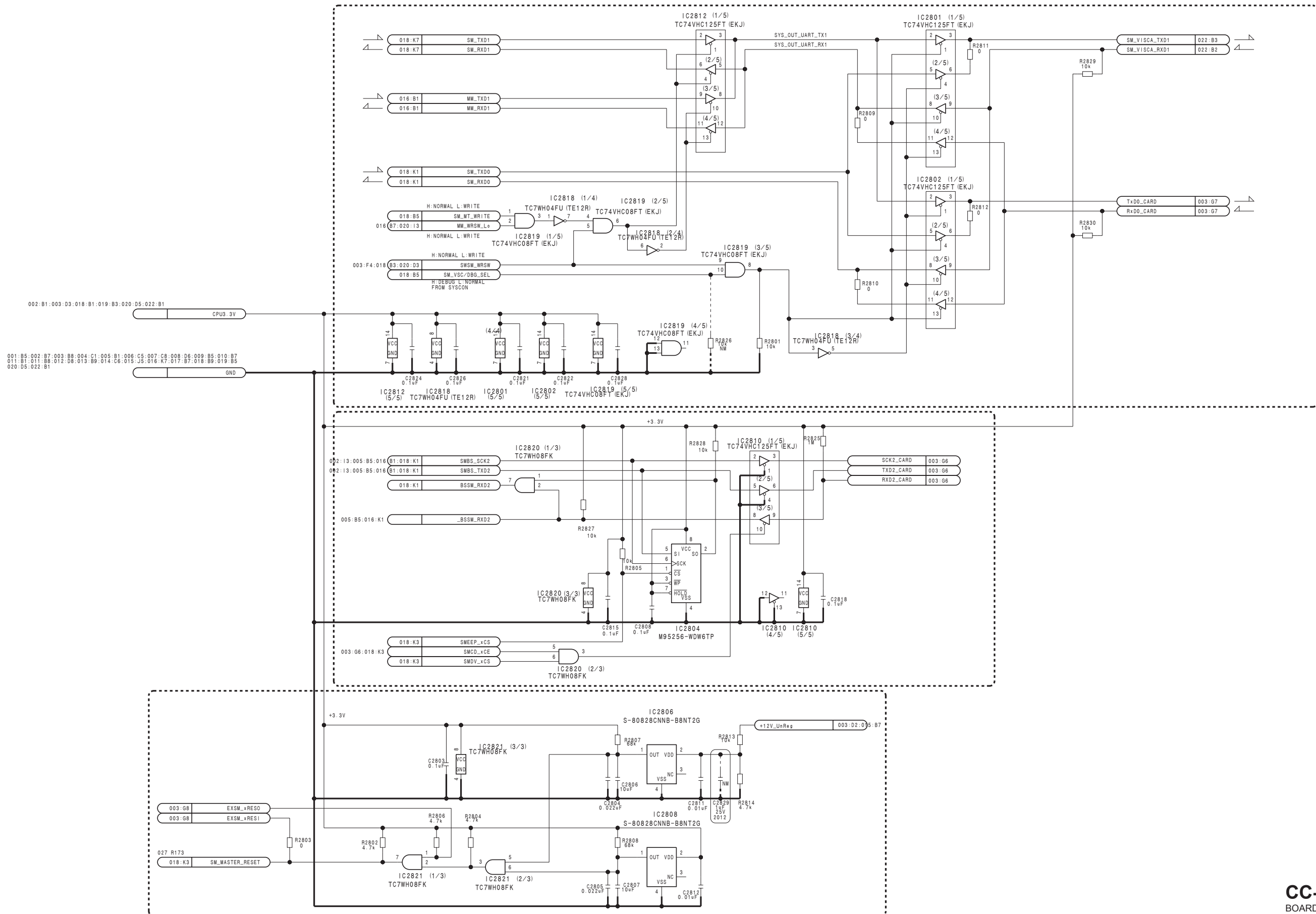
F

G

H

BOARD NO. 1-884-703-11

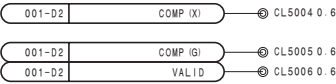




CN5001

CN5001

	Z	A	B	C	D	E	F	
1	GND 1	CARD_12V 2	CARD_12V 3	CARD_12V 4	CARD_12V 5	CARD_12V 6	GND 7	1
2	GND 8	GND 9	GND 10	GND 11	GND 12	GND 13	GND 14	2
3	GND 15	CARD_ID_0 16	CARD_ID_1 17	CARD_ID_2 18	CARD_ID_3 19	INT/EXT_MIU20	GND 21	3
4	GND 22	FW_SW1 23	FW_SW2 24	CPU3_3V 25	CPU3_3V 26	CPU3_3V 27	GND 28	4
5	GND 29	S01_601 30	RESET 31	K*YD*1* 32	K*YBLK 33	1080/720 34	GND 35	5
6	GND 36	PW_CONT 37	TCK 38	_TRST 39	TDO 40	_RES0 41	GND 42	6
7	GND 43	TMS 44	TDI 45	_RES1 46	1000/1001 47	CONF_DONE 48	GND 49	7
8	GND 50	XCE_CARD 51	XCE_CARD 52	CS0 53	CS1 54	CCLK 55	GND 56	8
9	GND 57	GND 58	GND 59	GND 60	GND 61	GND 62	GND 63	9
10	GND 64	VCC_FPGA 65	FPGA_TDI 66	GND 67	FPGA_TCK 68	GND 69	GND 70	10
11	GND 71	FPGA_TMS 72	FPGA_TDO 73	GND 74	FACTORY_RESET75	WRSW 76	GND 77	11
12								12
13								13
14								14
15	GND 99	SCL 100	SDA 101	TX 102	RX 103	OPE/ADJ 104	GND 105	15
16	GND 106	GND 107	GND 108	GND 109	GND 110	GND 111	GND 112	16
17	GND 113		114	115	VD_IN 116	COMP (X) 117	FW_SW3 118	17
18	GND 120	HD_0 121	VD_0 122	COMP (G) 123	VALID 124	FLD_0 125	GND 126	18
19	GND 127	CBCR5 128	CBCR6 129	CBCR7 130	CBCR8 131	CBCR9 132	GND 133	19
20	GND 134	CBCR0 135	CBCR1 136	CBCR2 137	CBCR3 138	CBCR4 139	GND 140	20
21	GND 141	Y5 142	Y6 143	Y7 144	Y8 145	Y9 146	GND 147	21
22	GND 148	Y0 149	Y1 150	Y2 151	Y3 152	Y4 153	GND 154	22
23	GND 155	AU_BCK 156	GND 157	AU_LRCK 158	GND 159	AU_MCK 160	GND 161	23
24	GND 162	GND 163	37M_CLK_IN 164	GND 165	37M_CLK_0 166	GND 167	GND 168	24
25	GND 169	SD_27M_CLK_0170	GND 171	74M_CLK_0 172	GND 173	148_5M_CLK_074	GND 175	25



CN5002
To CC-101 CN1008
30Pin

CN5002	(ST, ZIF)	
1	GND	
2	CBCR0	CBCR0 001-C3
3	CBCR1	CBCR1 001-C3
4	CBCR2	CBCR2 001-D3
5	CBCR3	CBCR3 001-D3
6	CBCR4	CBCR4 001-E3
7	CBCR5	CBCR5 001-C3
8	CBCR6	CBCR6 001-C3
9	CBCR7	CBCR7 001-D3
10	CBCR8	CBCR8 001-D3
11	CBCR9	CBCR9 001-E3
12	GND	
13	Y0	Y0 001-C3
14	Y1	Y1 001-C3
15	Y2	Y2 001-D3
16	Y3	Y3 001-D3
17	Y4	Y4 001-E3
18	Y5	Y5 001-C3
19	Y6	Y6 001-C3
20	Y7	Y7 001-D3
21	Y8	Y8 001-D3
22	Y9	Y9 001-E3
23	GND	
24	FLD_0	FLD_0 001-E2
25	HD_0	HD_0 001-C2
26	VD_0	VD_0 001-C2
27	NC	CL5001 0.6
28	NC	CL5002 0.6
29	GND	
30	GND	

CN5003

To CC-101 CN1009
30Pin

CN5003	(ST, ZIF)	
1	GND	
2	RESET	RESET 001-C1
3	GND	
4	VD_IN	VD_IN 001-D2
5	INT/EXT_MIU	INT/EXT_MIU 001-E1
6	1080/720	1080/720 001-E1
7	AU_MCK	AU_MCK 001-E3
8	AU_BCK	AU_BCK 001-C3
9	AU_LRCK	AU_LRCK 001-D3
10	GND	
11	KeyData	KeyData 001-D1
12	K*YBLK	K*YBLK 001-D1
13	GND	
14	CONF_DONE	CONF_DONE 001-E2
15	FPGA_TDI	FPGA_TDI 001-C2
16	FPGA_TDO	FPGA_TDO 001-C2
17	FPGA_TCK	FPGA_TCK 001-D2
18	FPGA_TMS	FPGA_TMS 001-C2
19	VCC_FPGA	VCC_FPGA 001-C2
20	GND	
21	SD_27M_CLK_0	SD_27M_CLK_0 001-C3
22	GND	
23	37M_CLK_0	37M_CLK_0 001-D3
24	GND	
25	37M_CLK_IN	37M_CLK_IN 001-C3
26	GND	
27	74M_CLK_0	74M_CLK_0 001-D3
28	GND	
29	148_5M_CLK_0	148_5M_CLK_0 001-E3
30	GND	

CN5004

To CC-101 CN1010
30Pin

CN5004	(ST, ZIF)	
1	GND	
2	CCLK	CCLK 001-E2
3	CS1	CS1 001-D2
4	CS0	CS0 001-D2
5	XCE_CARD	XCE_CARD 001-C2
6	XCE_JIGU	CL5007 0.6
7	GND	
8	PW_CONT	PW_CONT 001-C2
9	CARD_ID_0	CARD_ID_0 001-C1
10	CARD_ID_1	CARD_ID_1 001-C1
11	CARD_ID_2	CARD_ID_2 001-D1
12	CARD_ID_3	CARD_ID_3 001-D1
13	GND	
14	RX	RX 001-D2
15	TX	TX 001-D2
16	GND	
17	1000/1001	1000/1001 001-D2
18	S01_601	S01_601 001-C1
19	GND	
20	SCL	SCL 001-C2
21	SDA	SDA 001-C2
22	GND	
23	TCK	TCK 001-C2
24	_TRST	_TRST 001-D2
25	TDO	TDO 001-D2
26	_RES0	_RES0 001-E2
27	TMS	TMS 001-C2
28	TDI	TDI 001-C2
29	_RES1	_RES1 001-D2
30	GND	

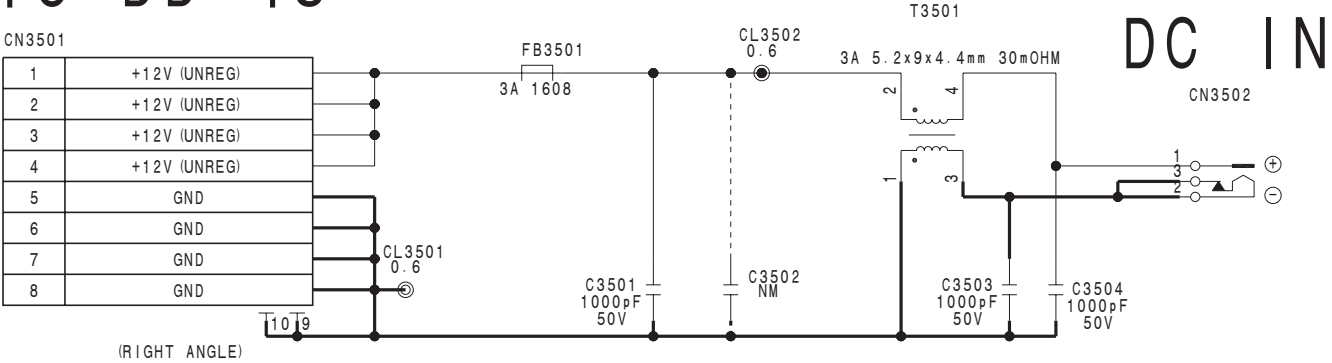
CN5005

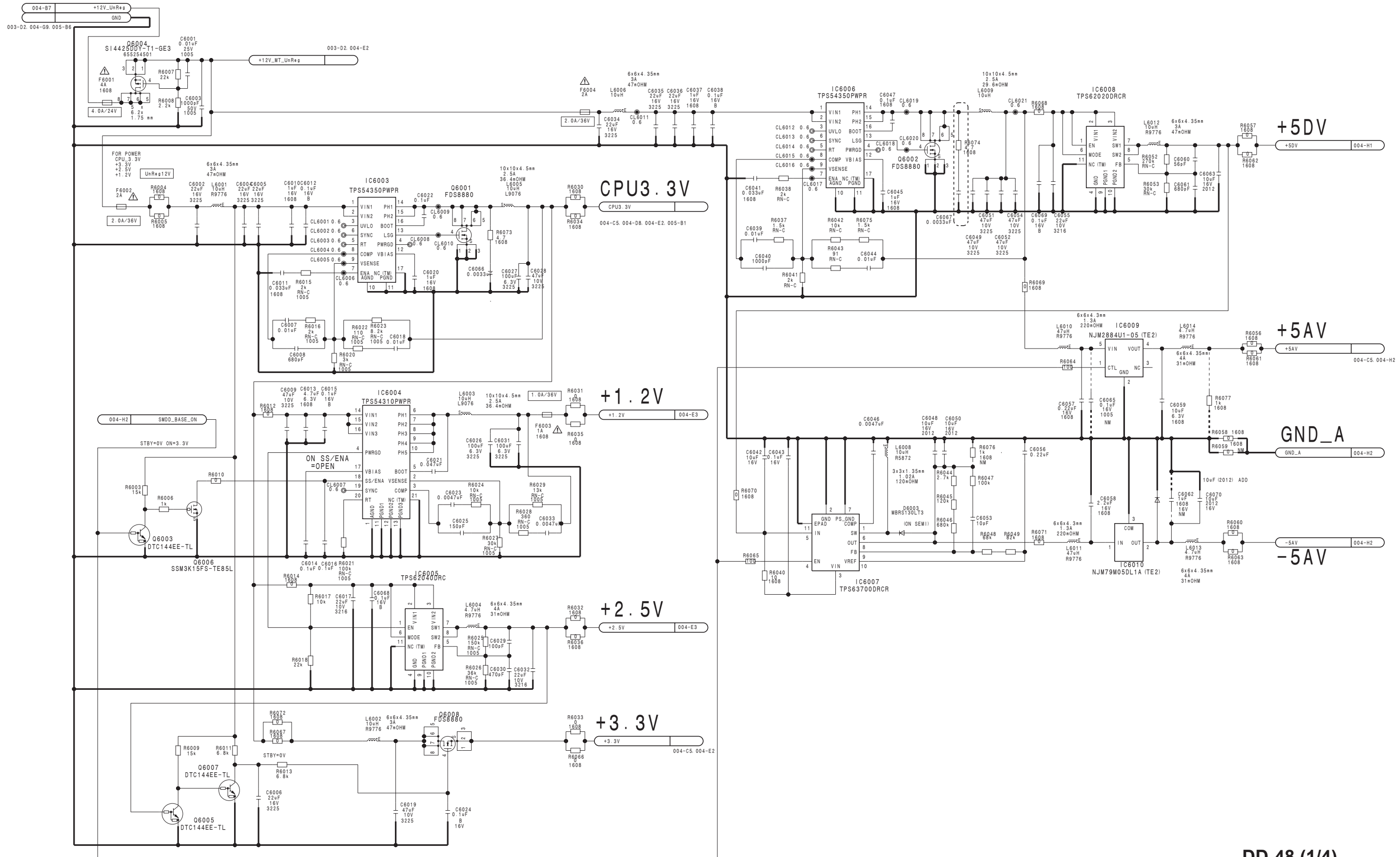
To DD-48 CN6004
30Pin

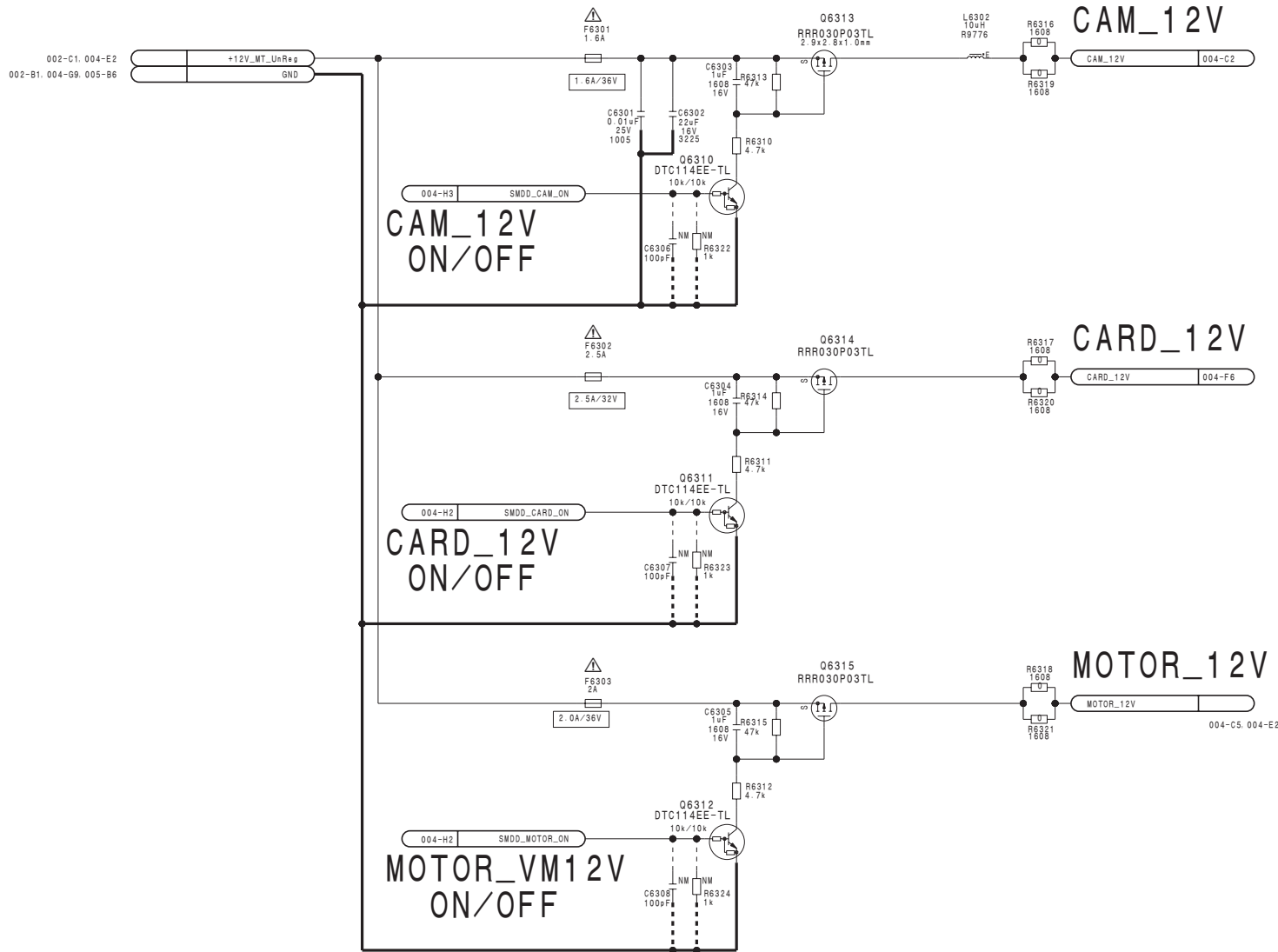
CN5005	(ST, ZIF)	
1	GND	
2	GND	
3	GND	
4	GND	
5	GND	
6	CARD_12V	CARD_12V
7	CARD_12V	CARD_12V
8	CARD_12V	CARD_12V
9	CARD_12V	CARD_12V
10	CARD_12V	CARD_12V
11	CARD_12V	CARD_12V
12	CARD_12V	CARD_12V
13	CARD_12V	CARD_12V
14	GND	
15	GND	
16	NC	CL5008 0.6
17	NC	CL5009 0.6
18	NC	CL5010 0.6
19	OPE/ADJ	OPE/ADJ 001-E2
20	WRSW	WRSW 001-E2
21	FACTORY_RESET	FACTORY_RESET 001-D2
22	GND	
23	FW_SW1	FW_SW1 001-C1
24	FW_SW2	FW_SW2 001-C1
25	FW_SW3	FW_SW3 001-E2
26	GND	
27	CPU_3_3V	CPU_3_3V
28	CPU_3_3V	CPU_3_3V
29	CPU_3_3V	CPU_3_3V
30	GND	

DC IN BOARD (REAR PANEL)

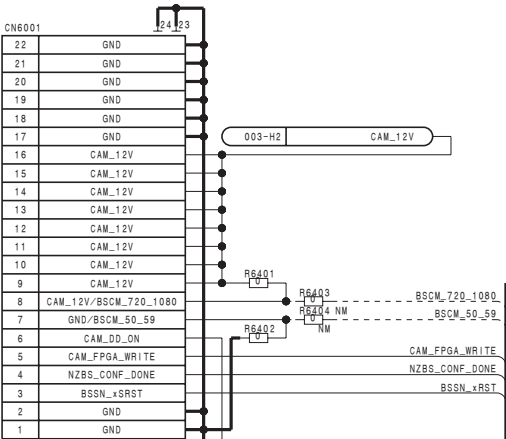
TO DD-48



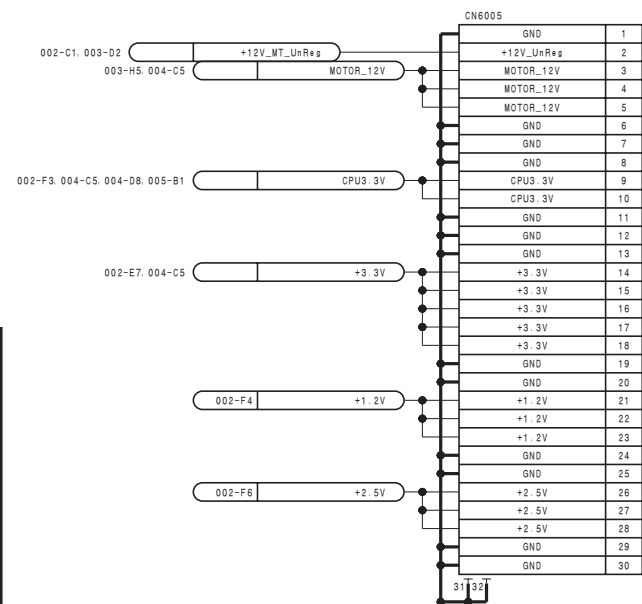




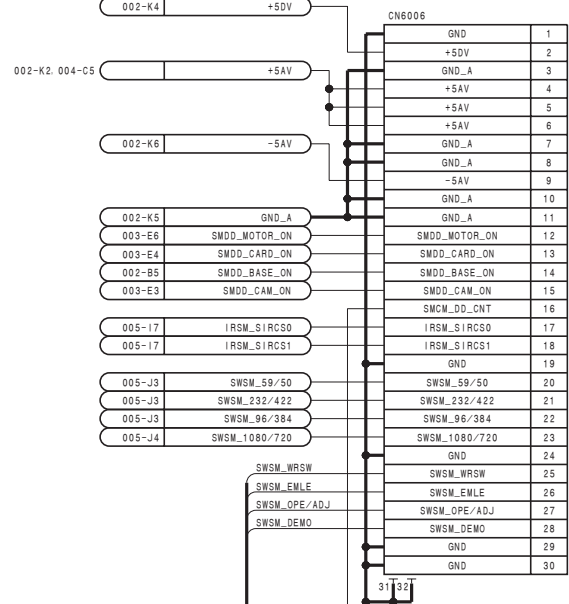
CN6001
To VC-16 CN006
22pin



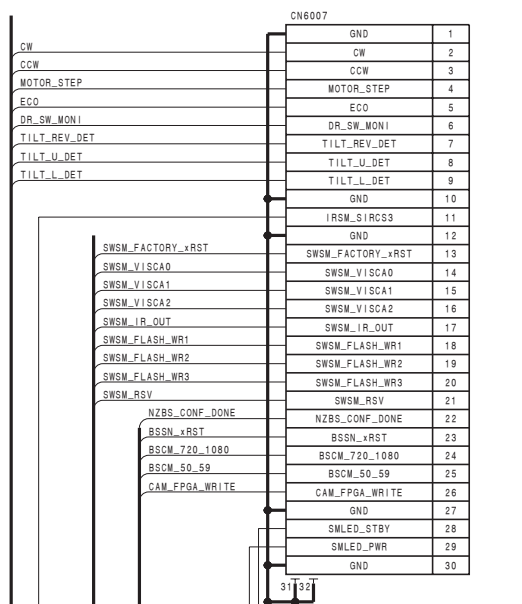
CN6005
To CC-101 CN1005
30pin



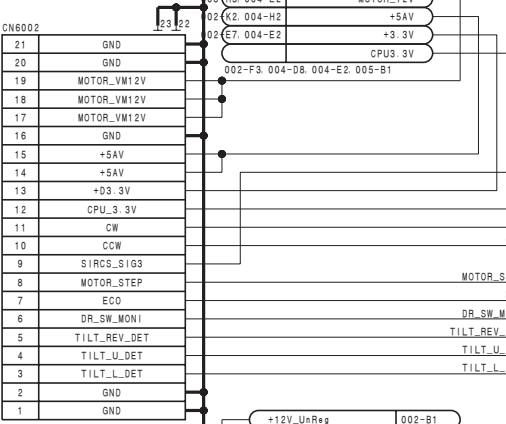
CN6006
To CC-101 CN1006
30pin



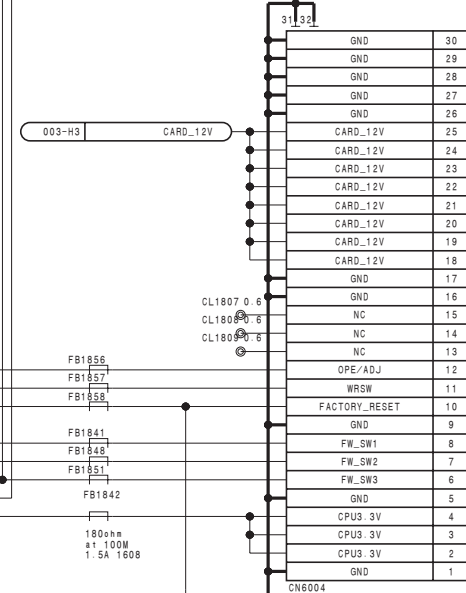
CN6007
To CC-101 CN1007
30pin



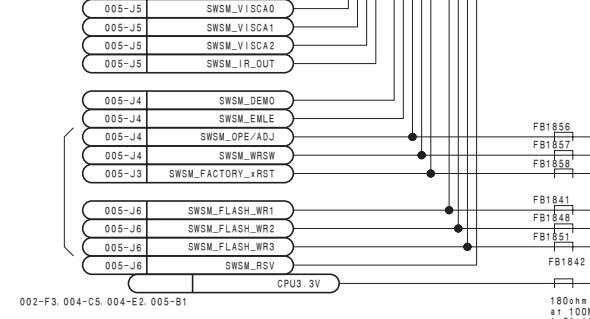
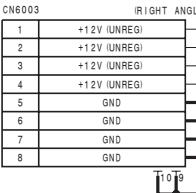
CN6002
To DR-667 CN3001
21pin



CN6004
To CN-3446 CN5005
30pin



CN6003
From DC157 CN3501
8pin



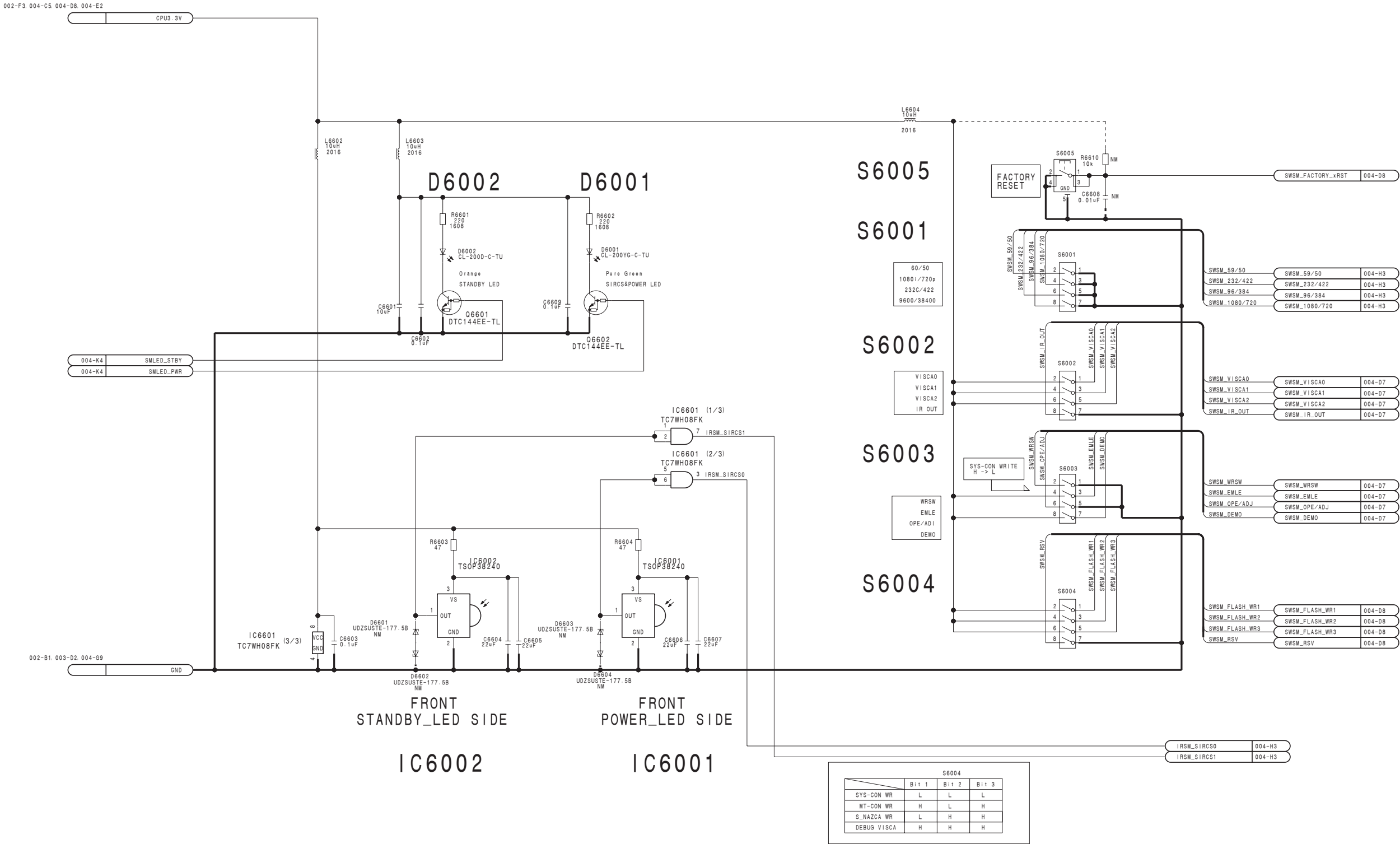
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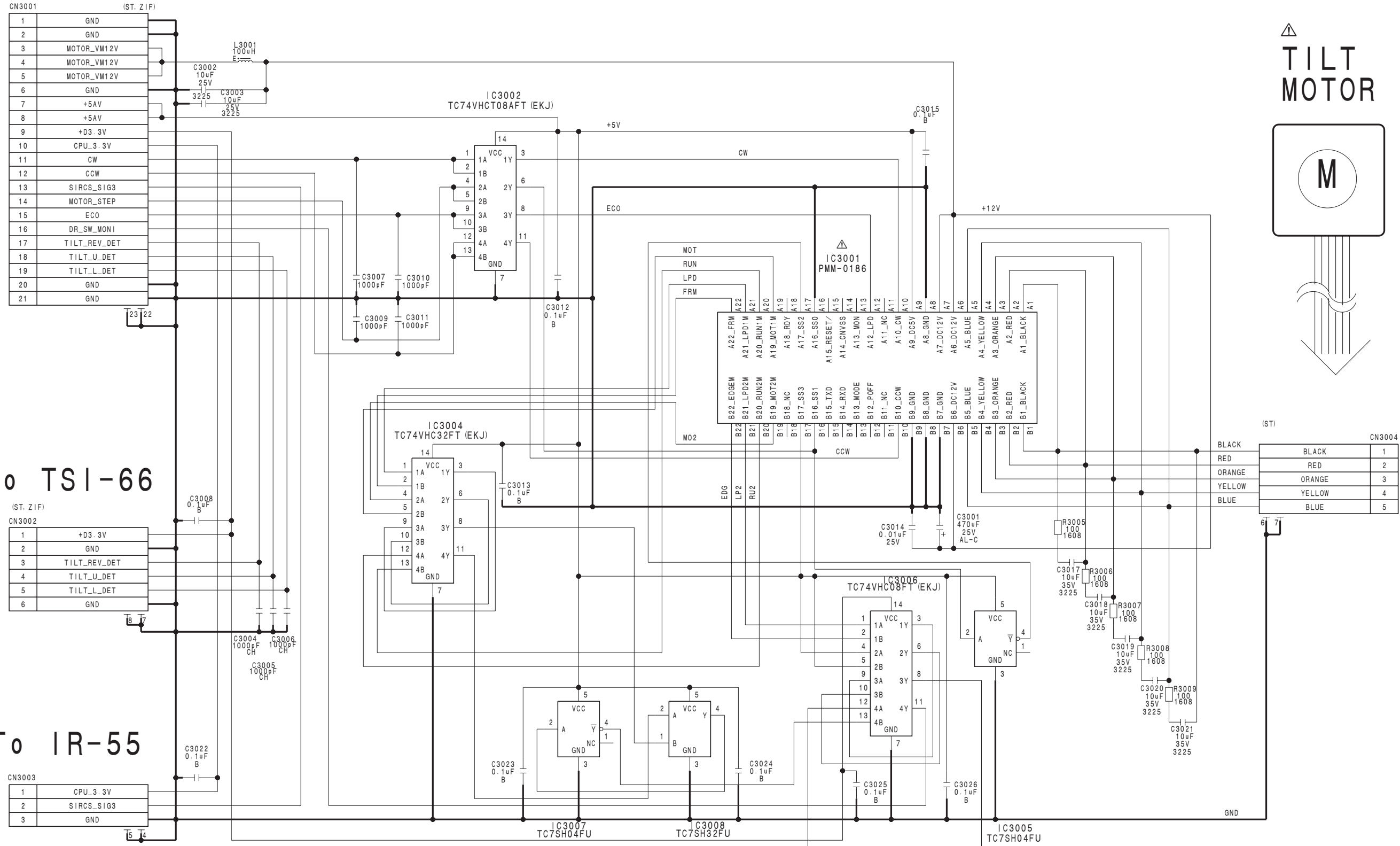
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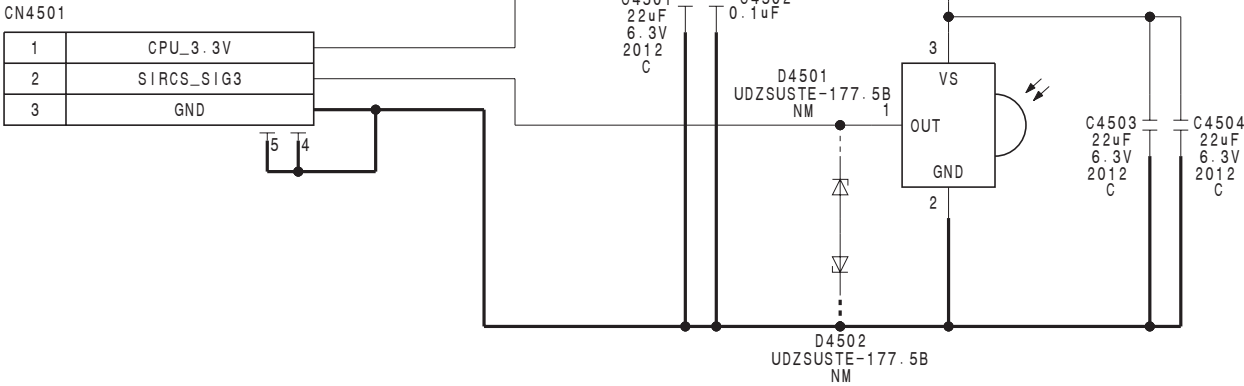
5



From DD-48



FROM
DR-667

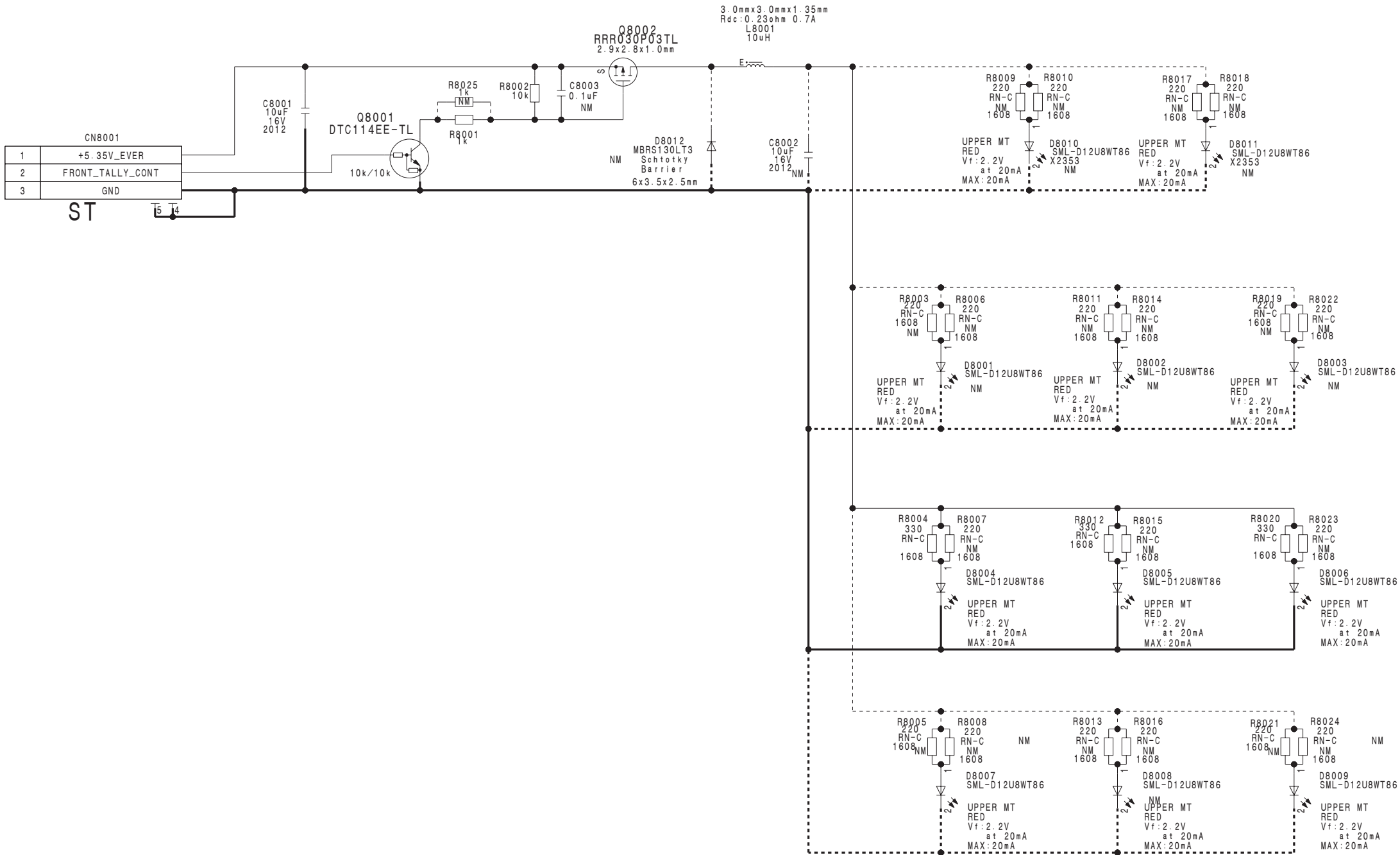


LED-509

SUFFIX: -11

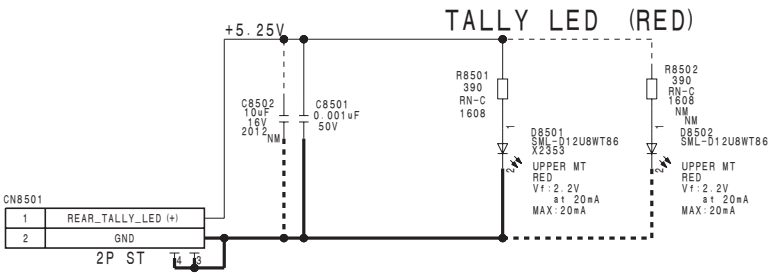
LED-509

SUFFIX: -11

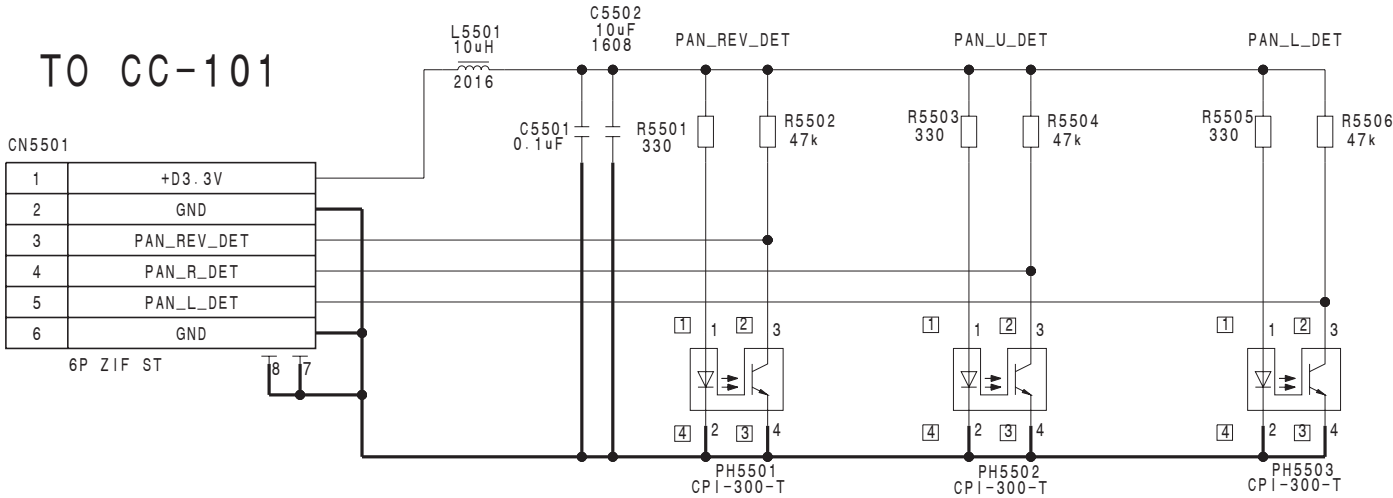


LED-509

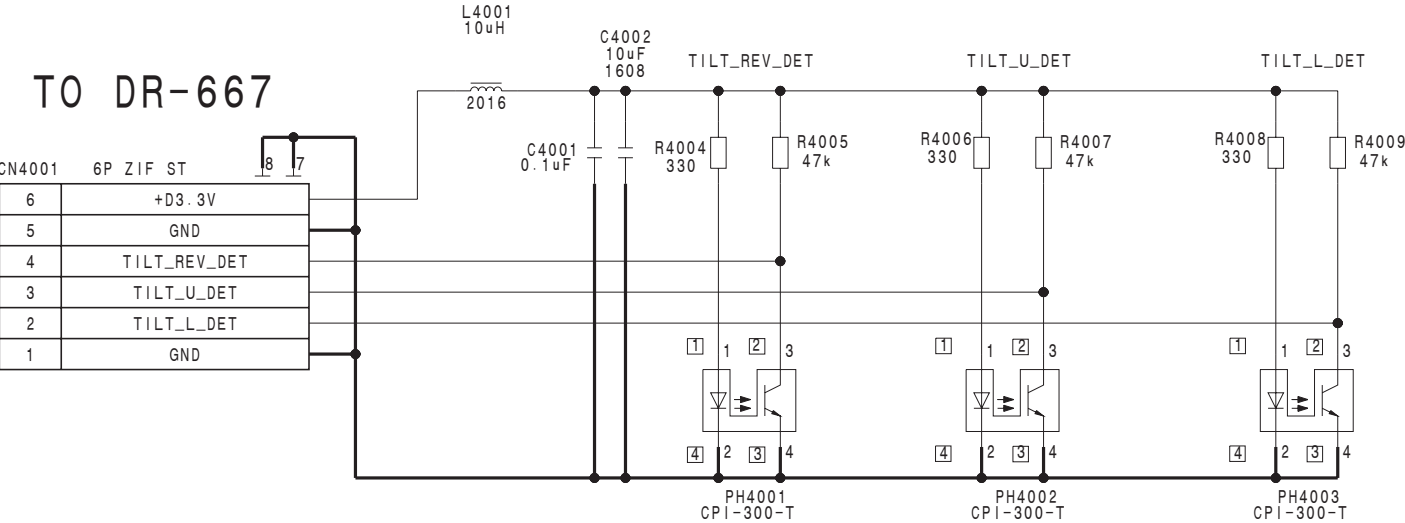
BOARD NO. 1-884-711-11



LED-513
BOARD NO. 1-885-919-11



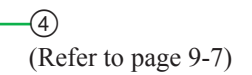
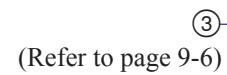
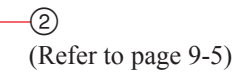
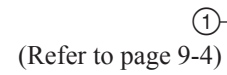
PS-842
BOARD NO. 1-884-706-11



Section 9
Board Layouts

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Board name	Page
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DC-157	9-14
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IR-55	9-13
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LED-513	9-21
PS-842	9-23
SW-1532	9-24
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CC-101 -A SIDE-SUFFIX: -11

5
(Refer to page 9-8)

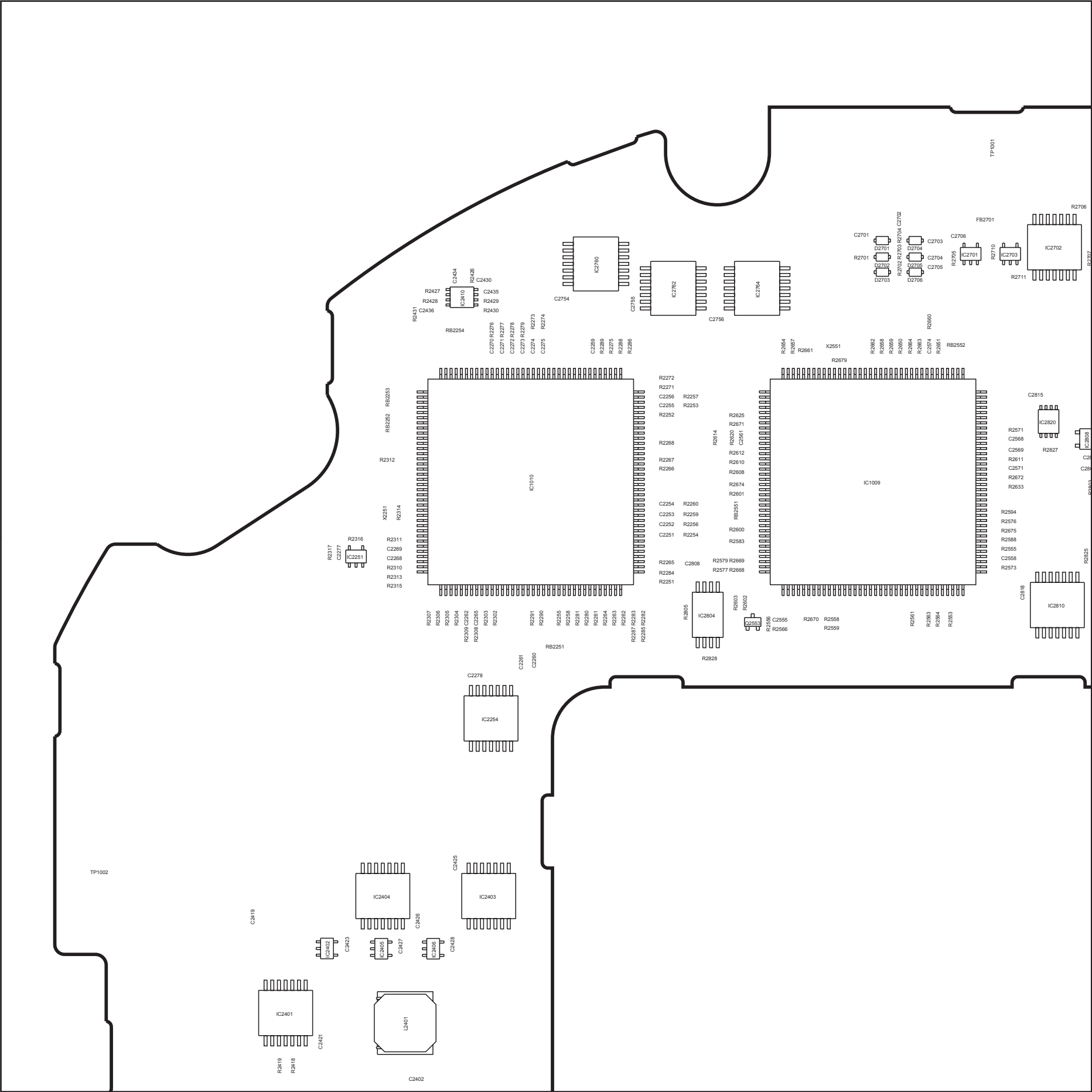
7
(Refer to page 9-9)

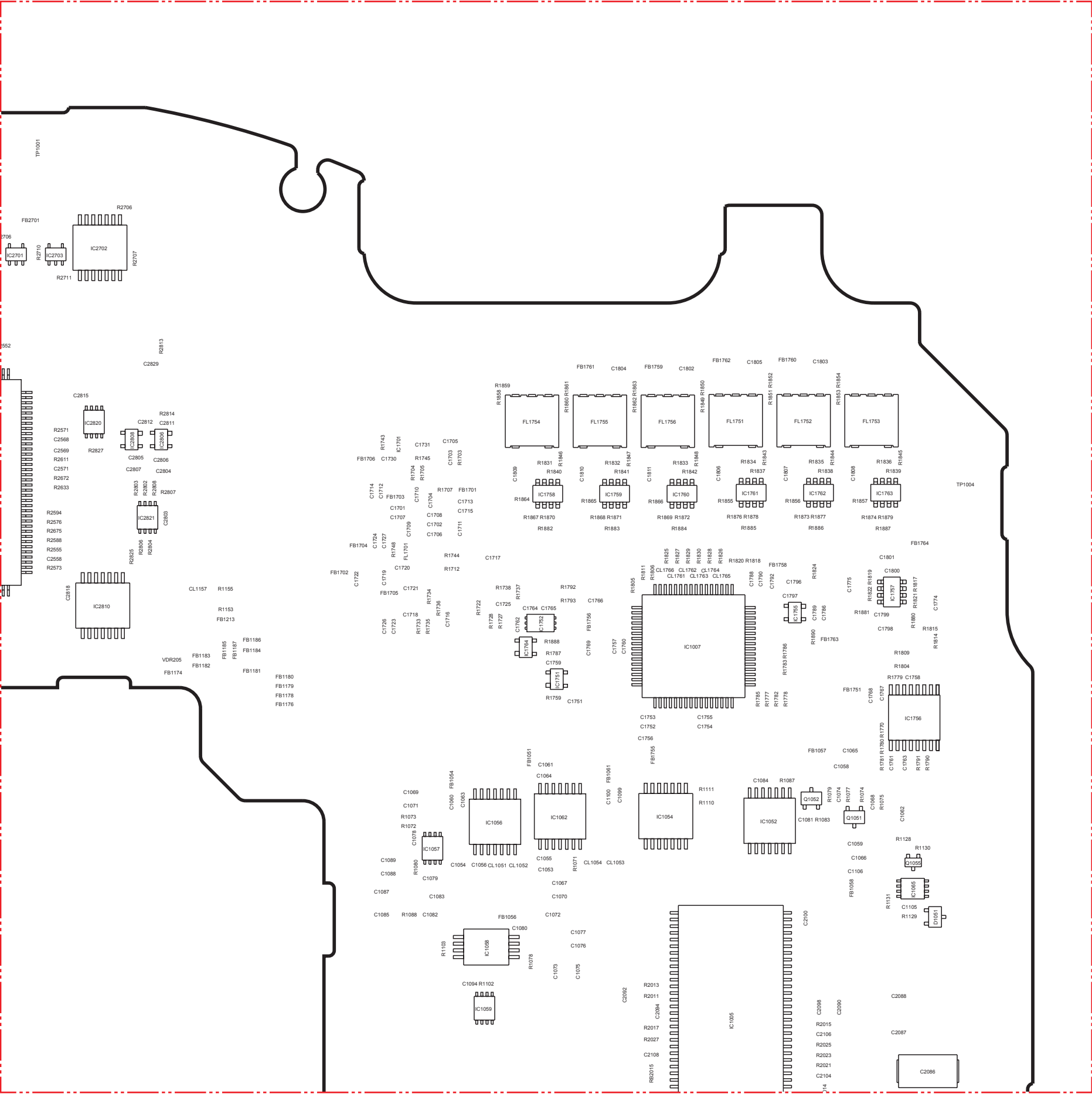
6
(Refer to page 9-10)

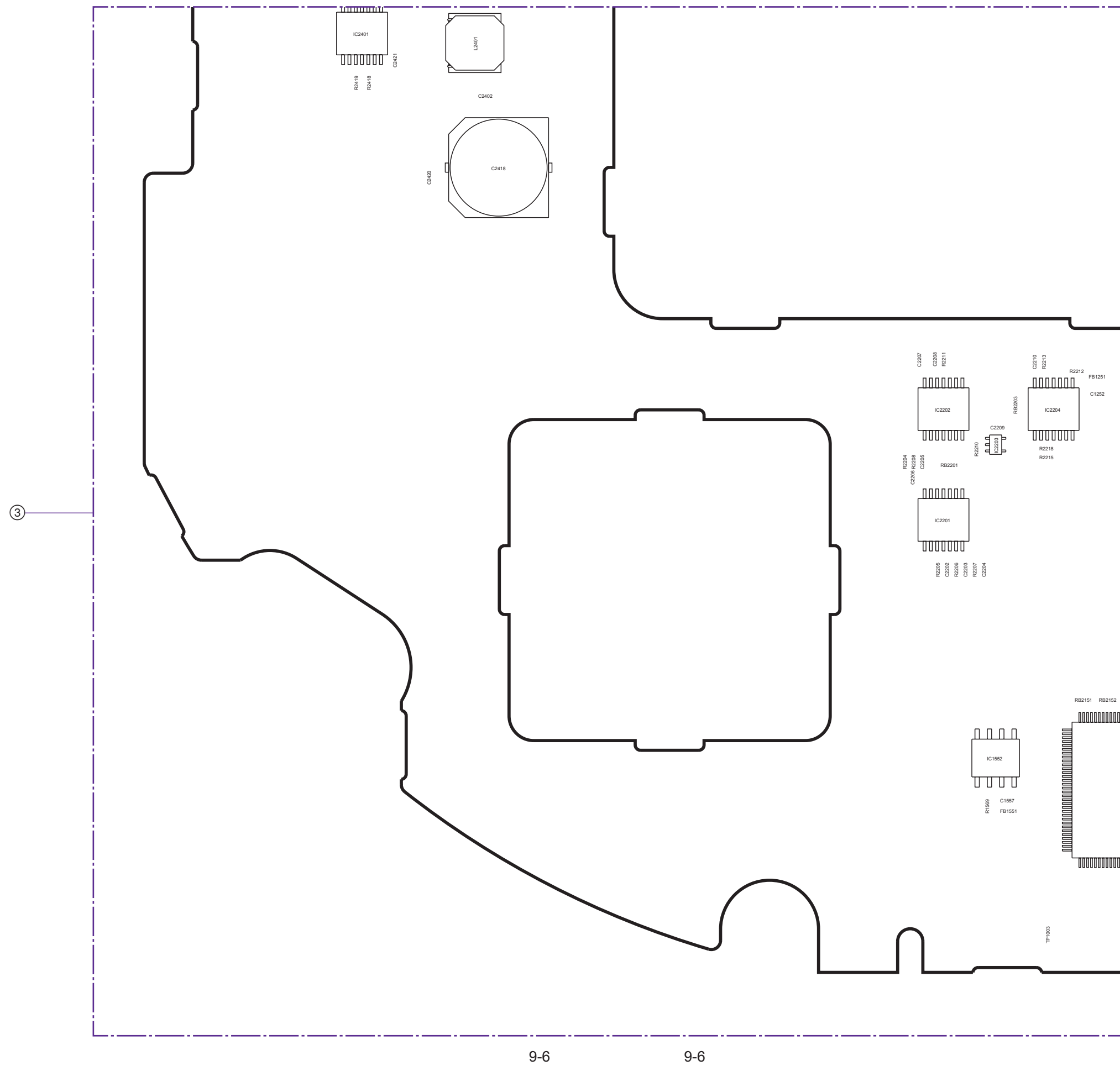
8
(Refer to page 9-11)

CC-101 -B SIDE-
SUFFIX: -11

1

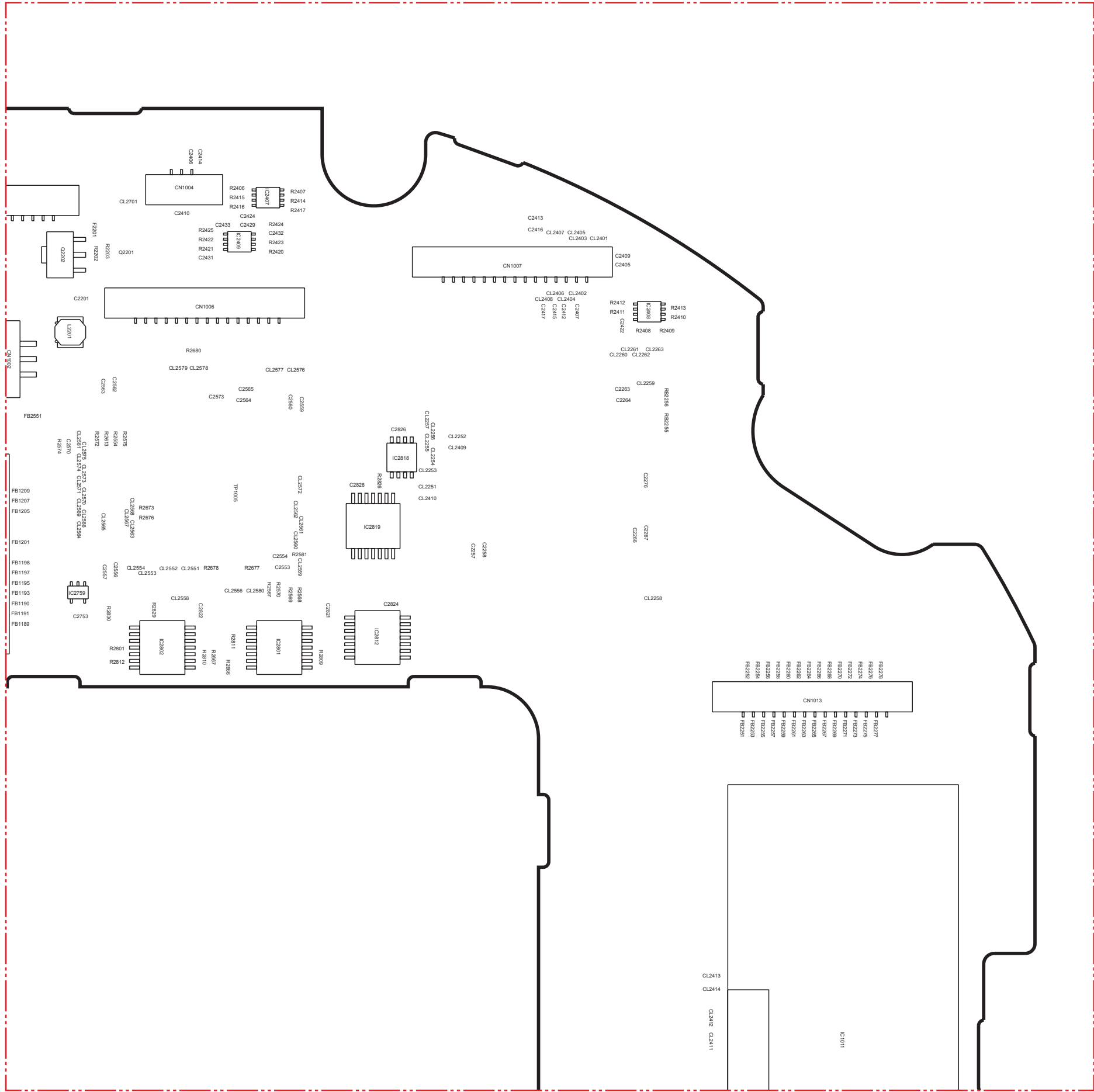


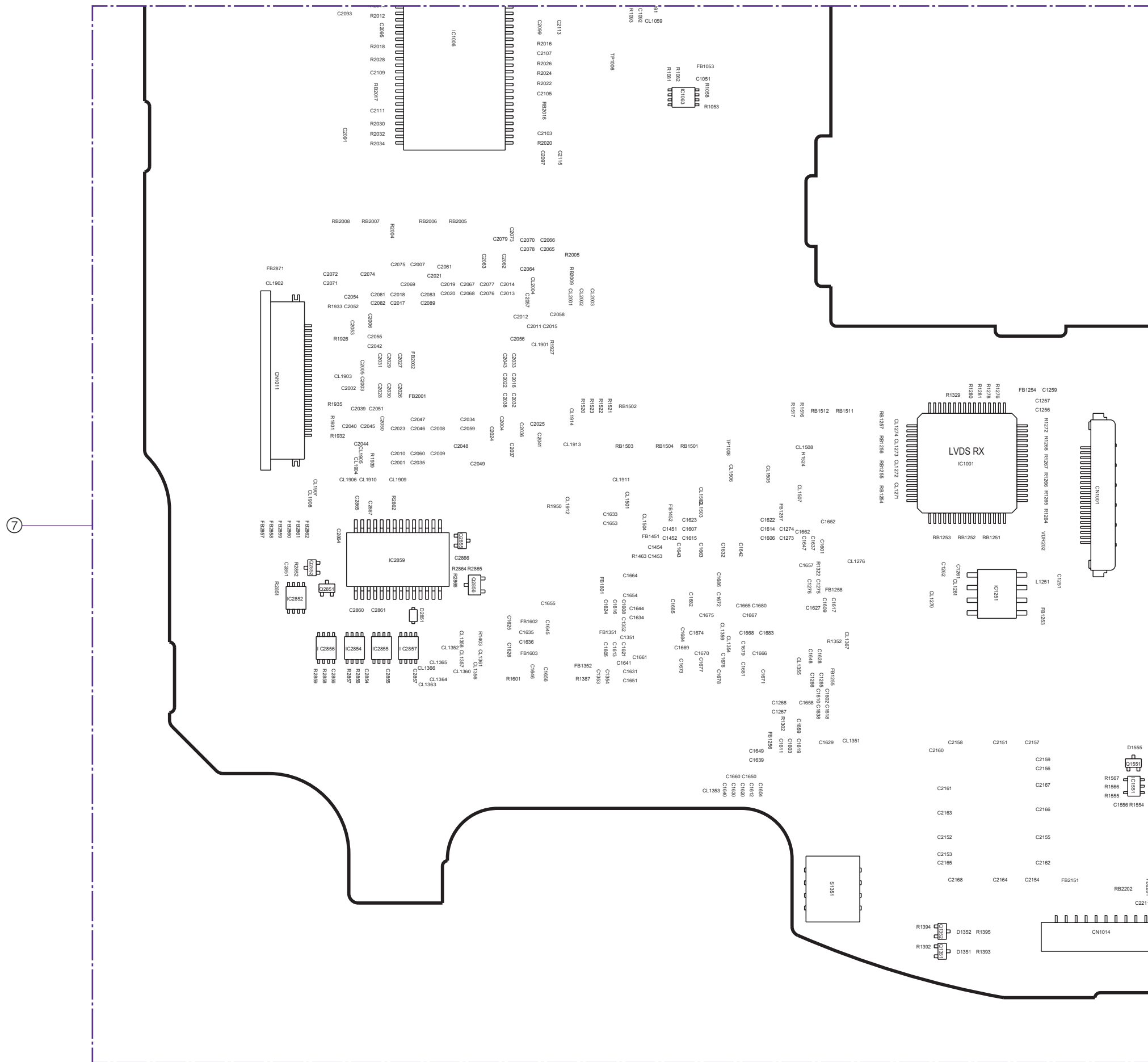


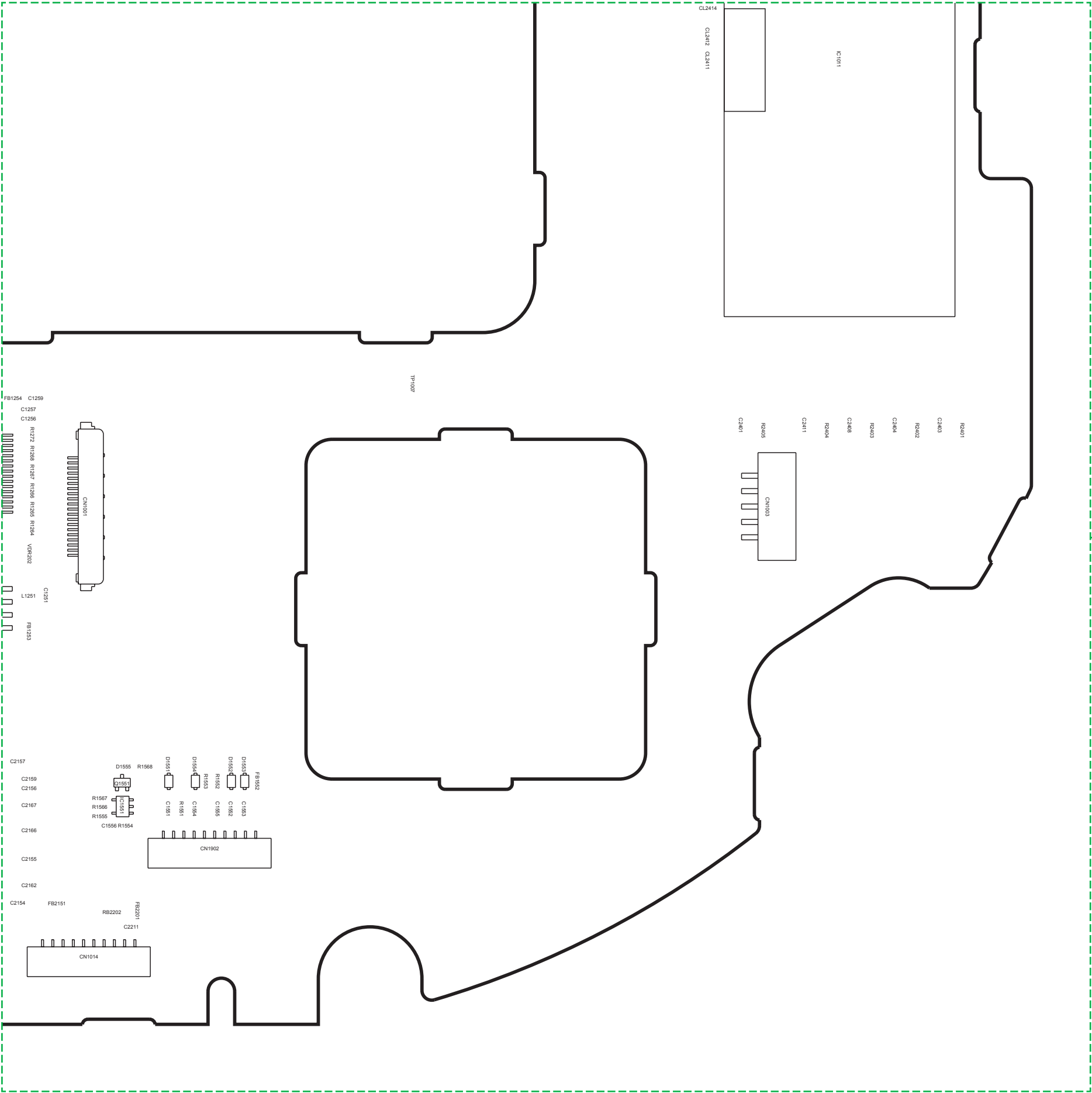




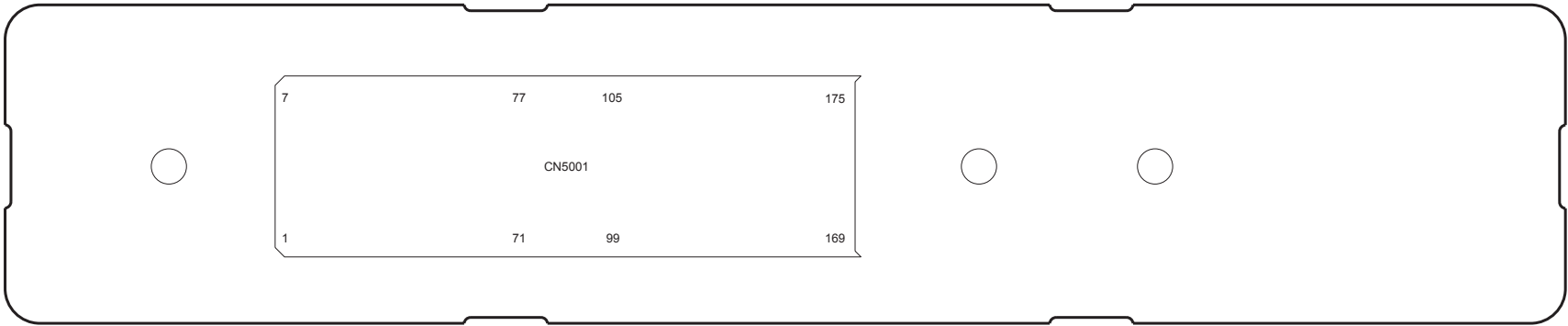




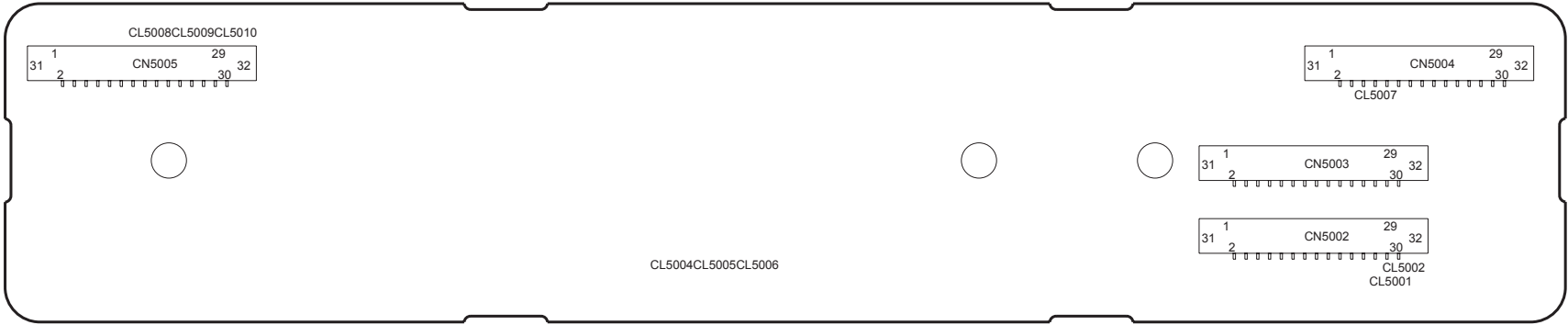




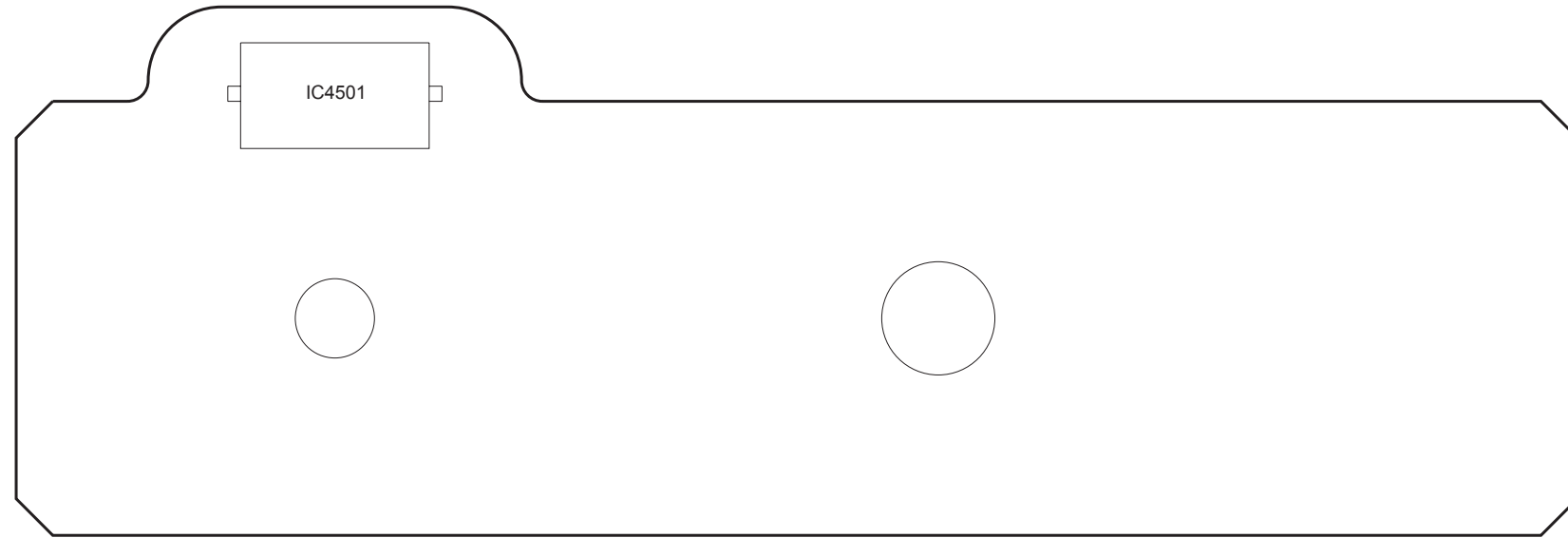
8



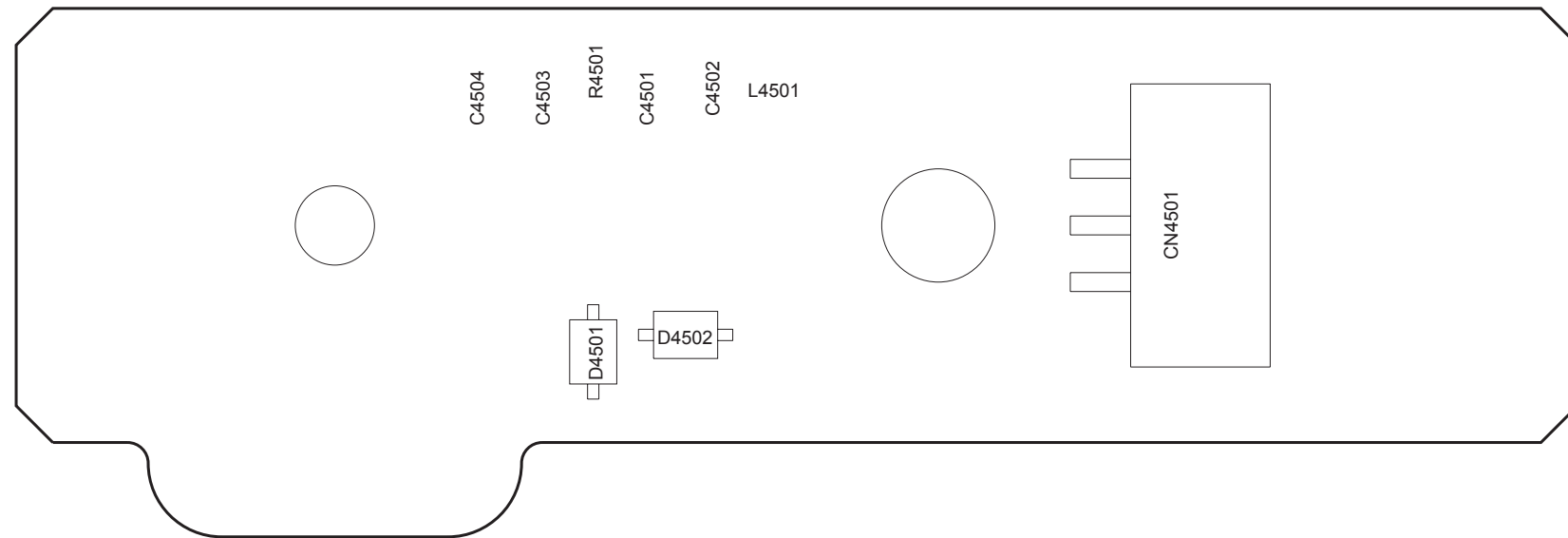
CN-3446 -A SIDE-
SUFFIX: -11



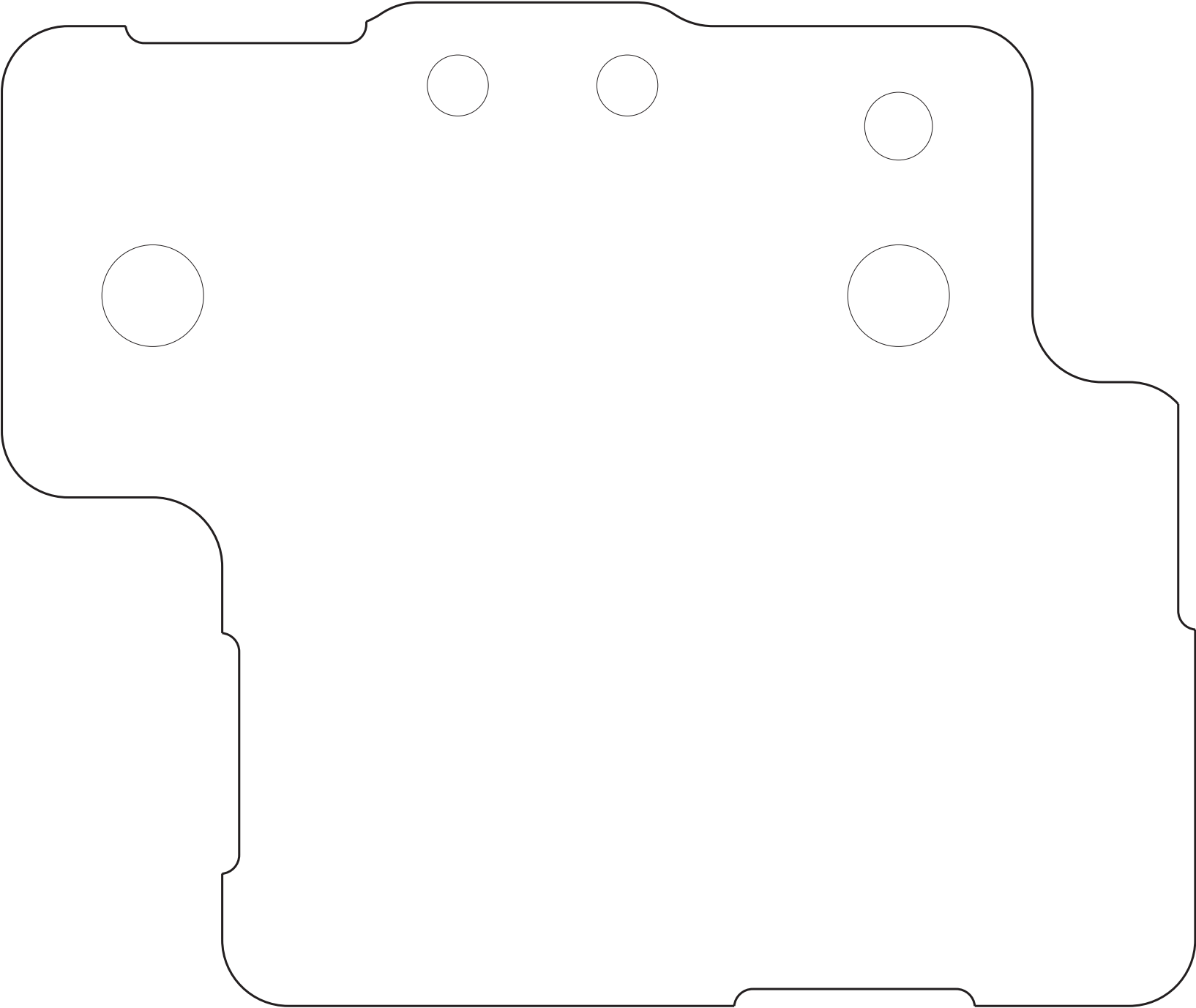
CN-3446 -B SIDE-
SUFFIX: -11



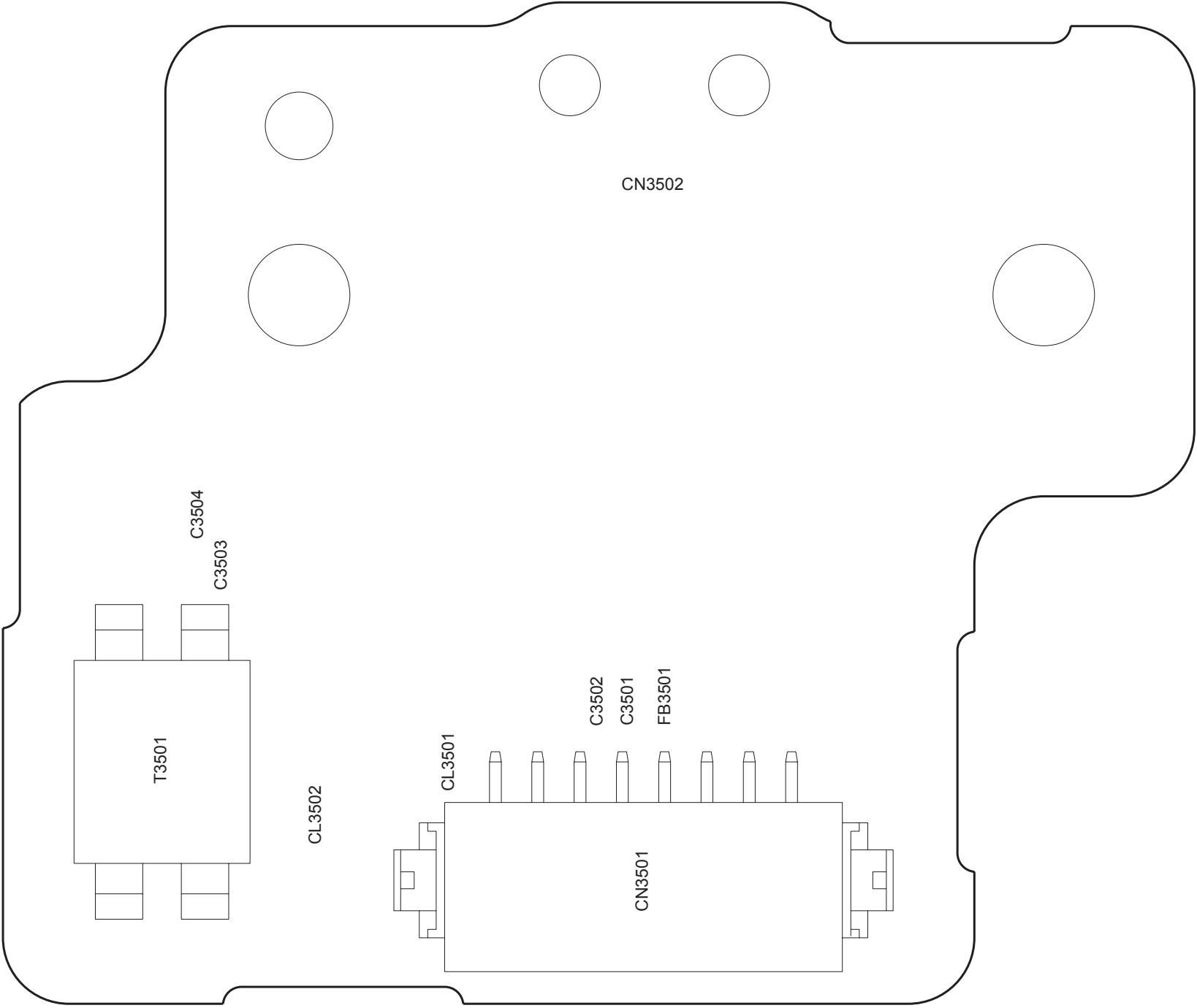
IR-55 -A SIDE-
SUFFIX: -11



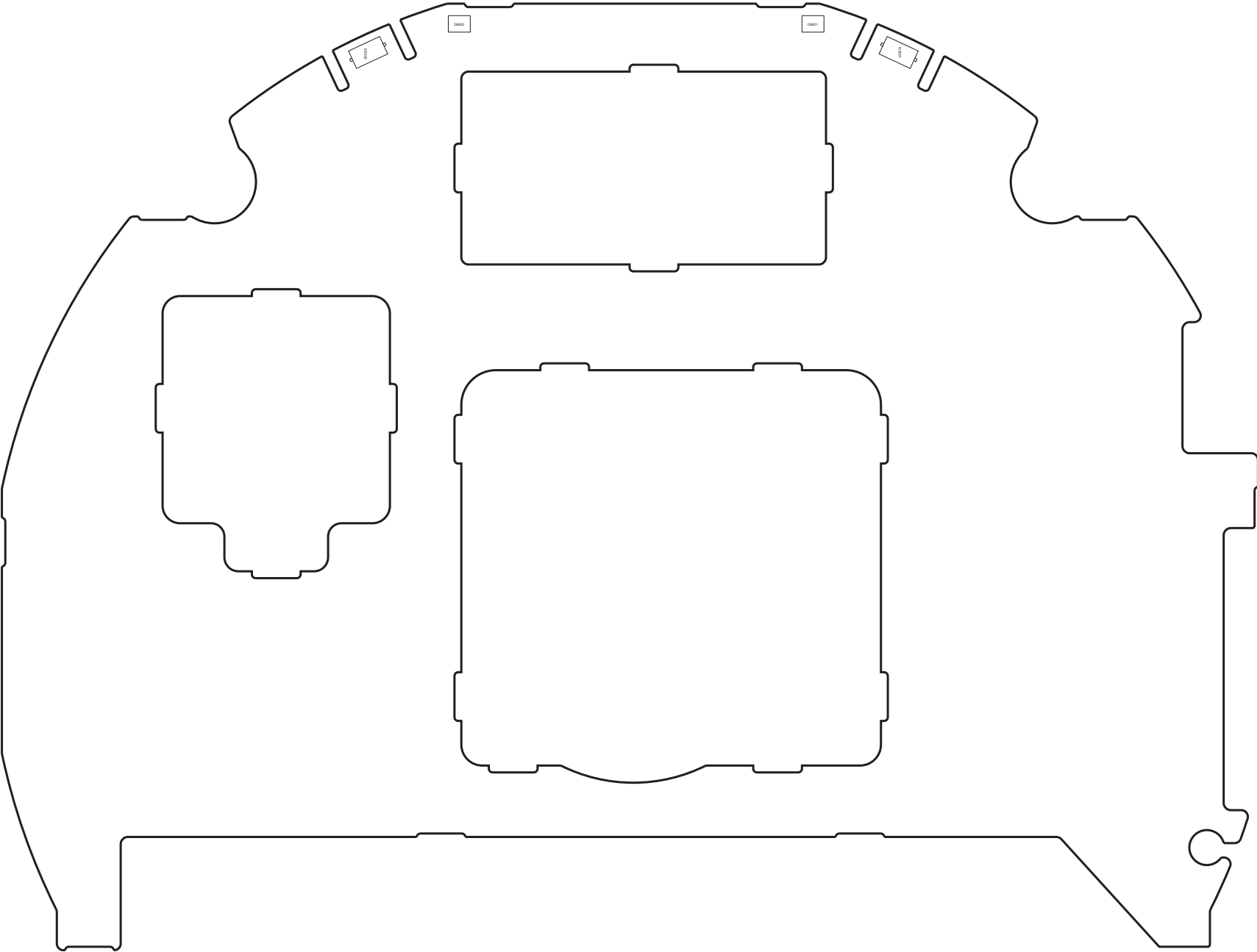
IR-55 -B SIDE-
SUFFIX: -11



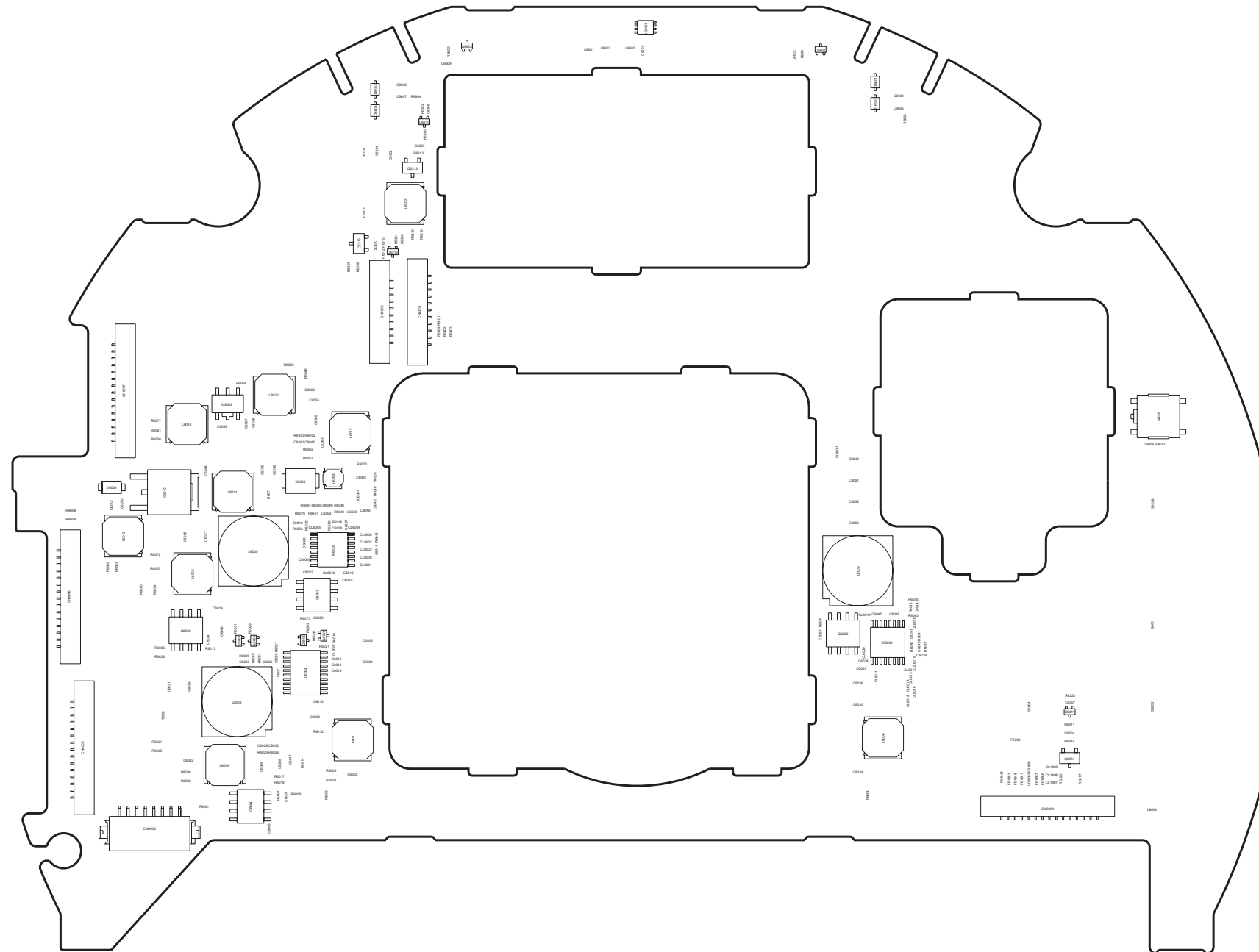
DC-157 -A SIDE-
SUFFIX: -11



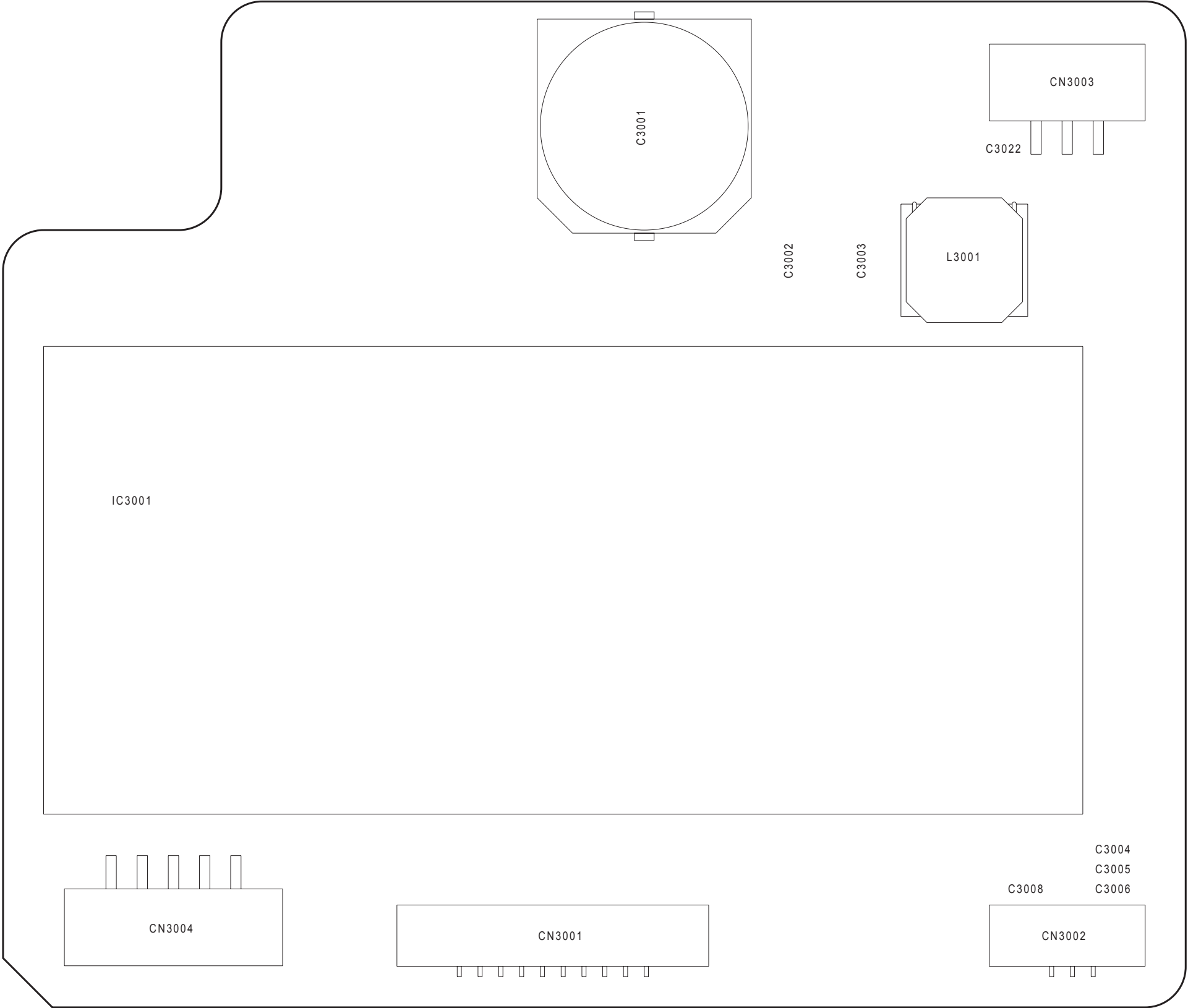
DC-157 -B SIDE-
SUFFIX: -11

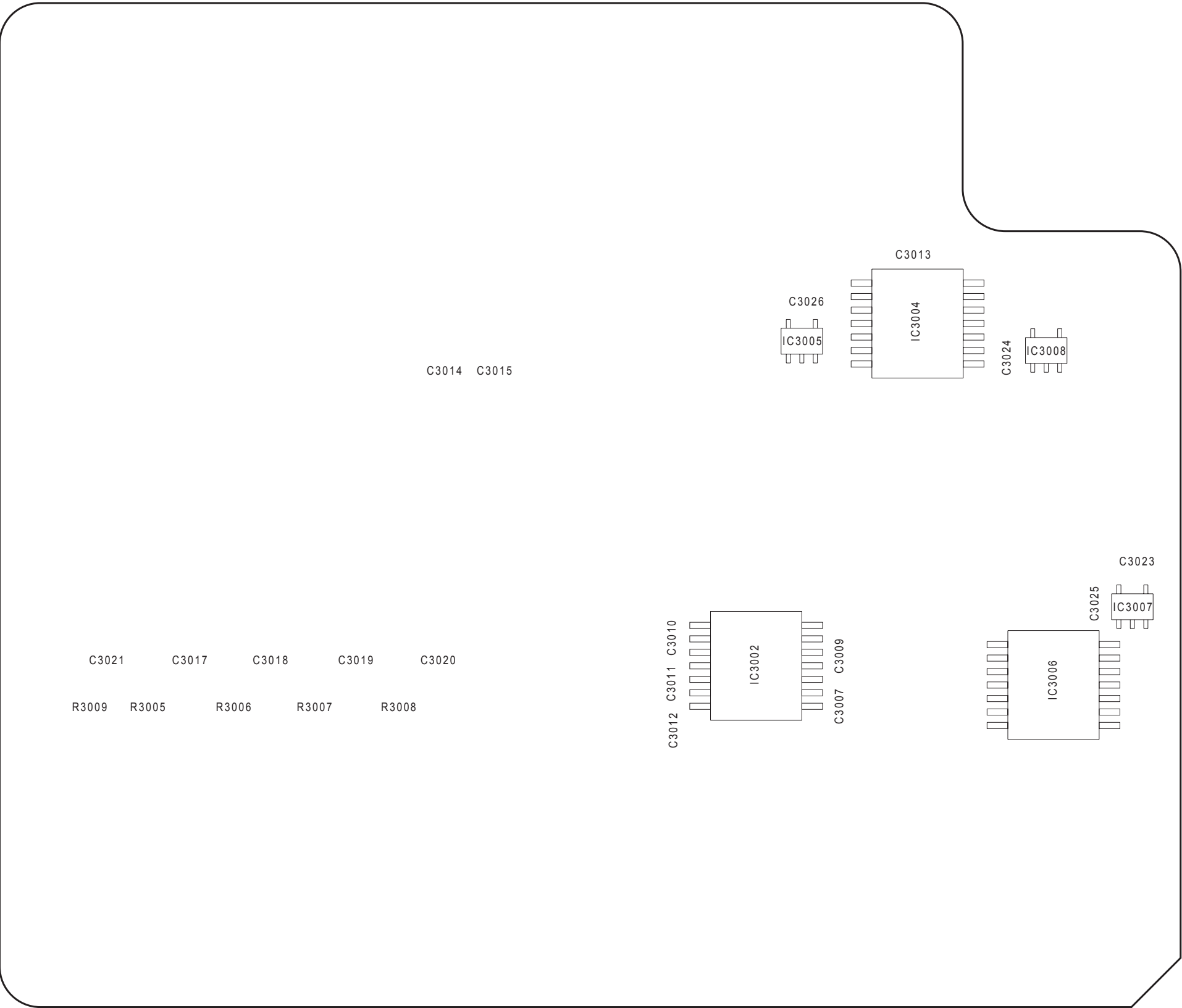


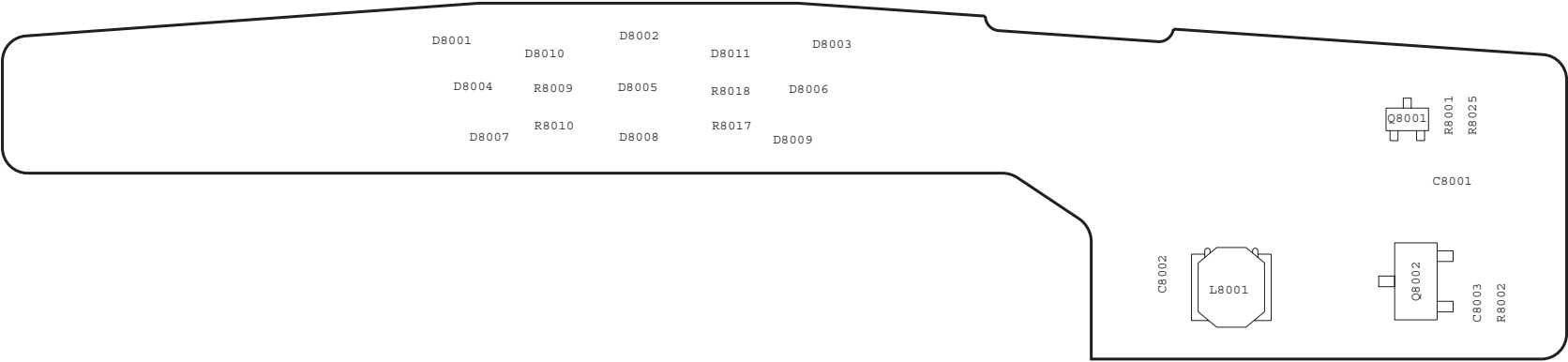
DD-48 -A SIDE-
SUFFIX: -11



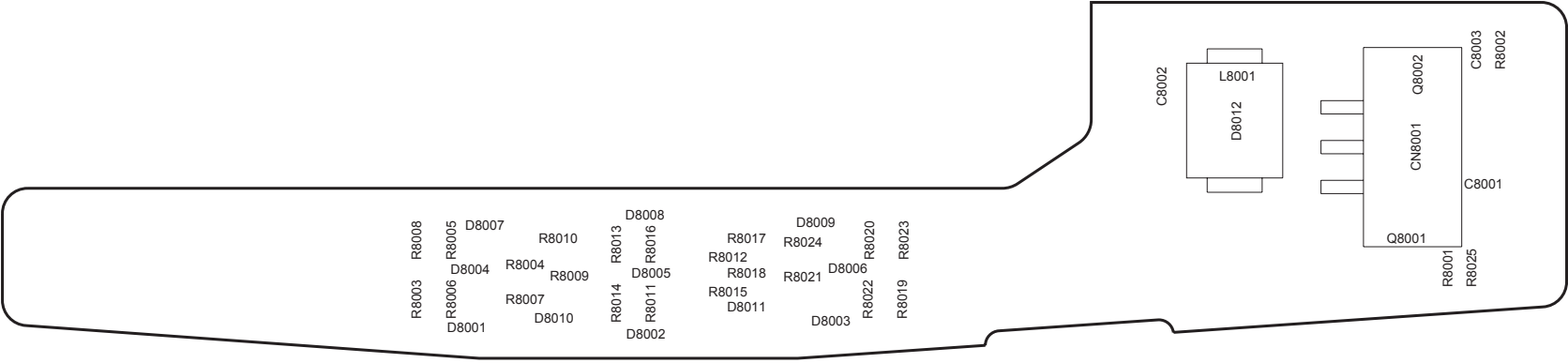
DD-48 -B SIDE-
SUFFIX: -11



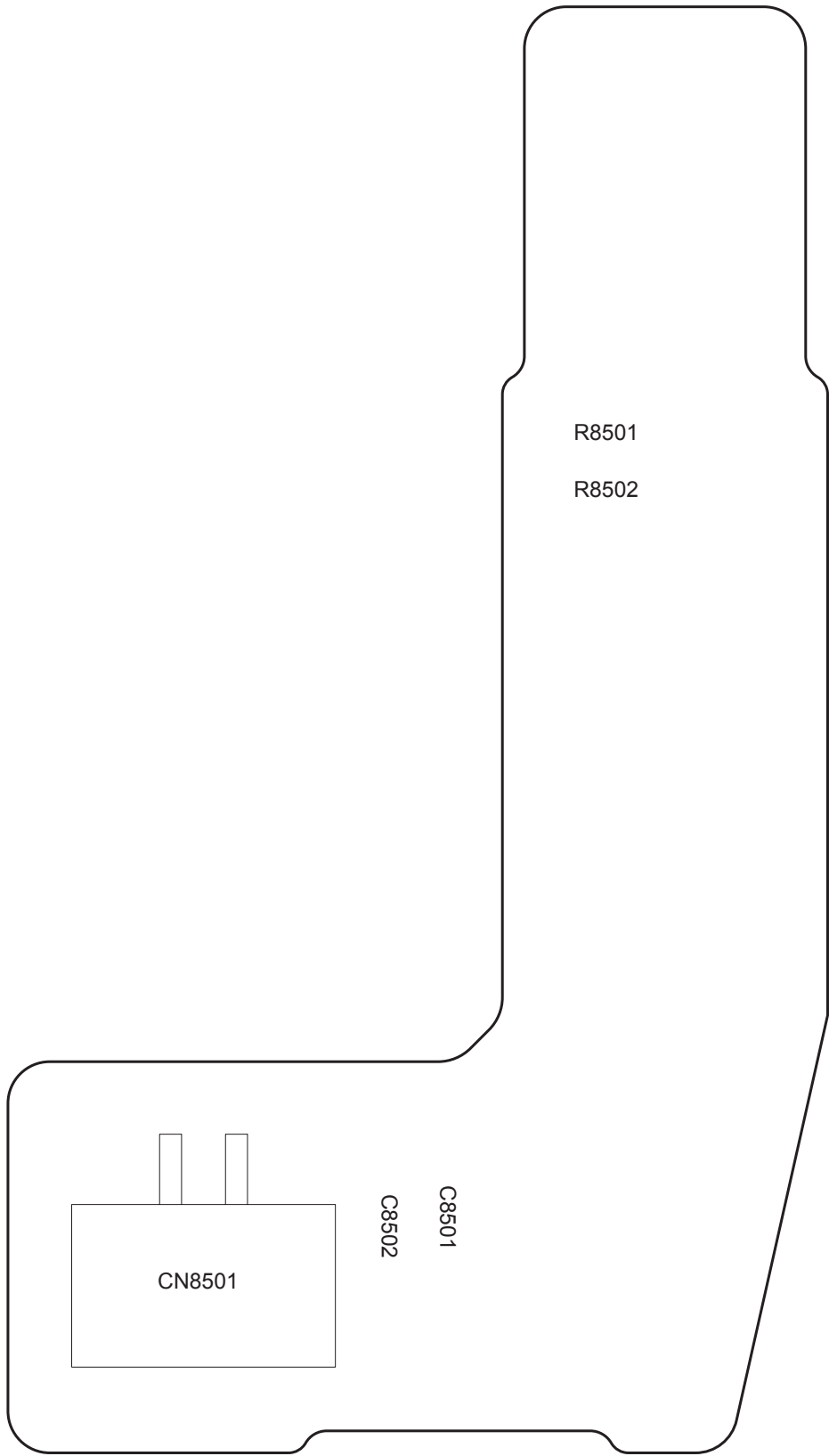




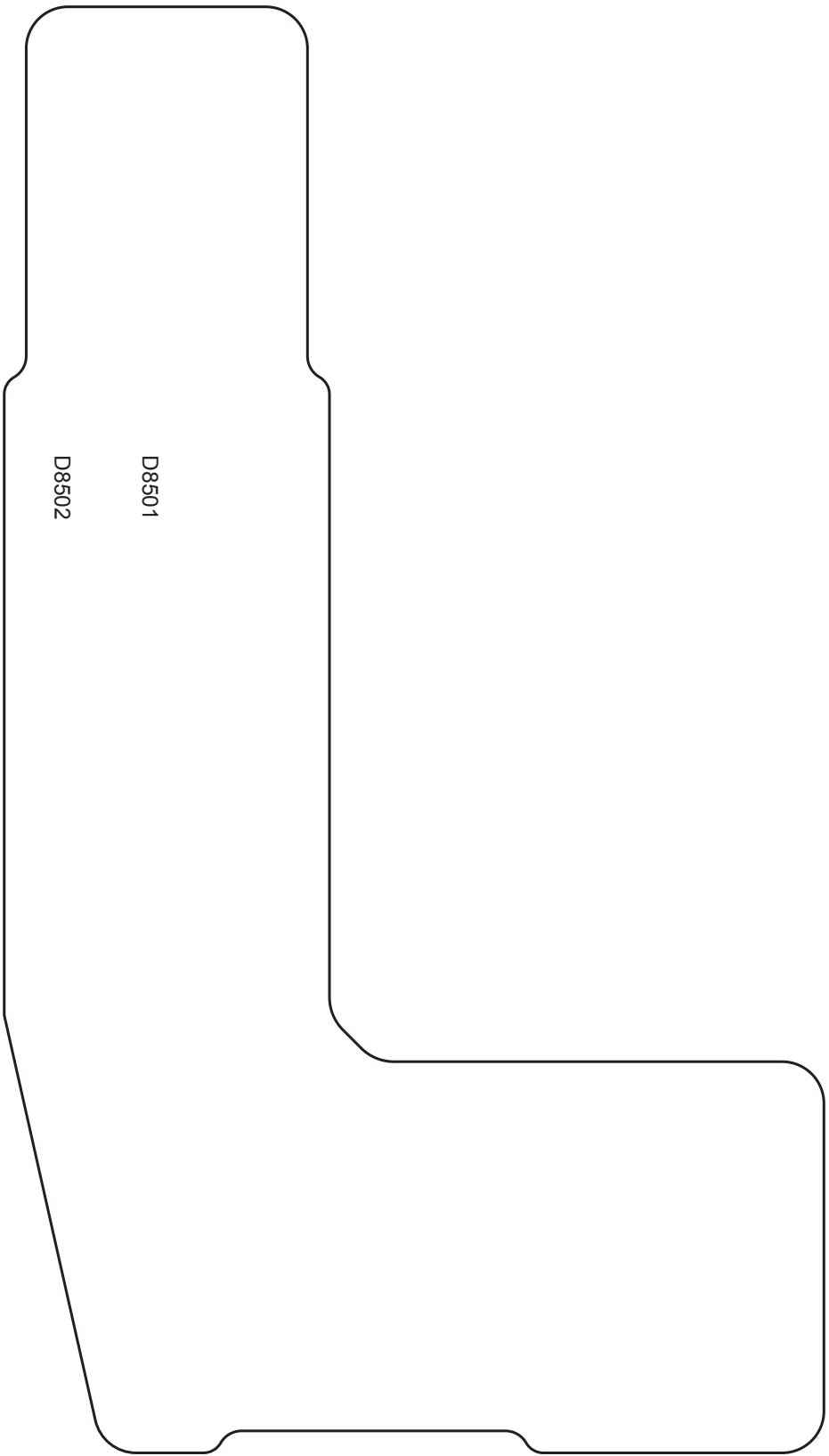
LED-509 -A SIDE-
SUFFIX: -11



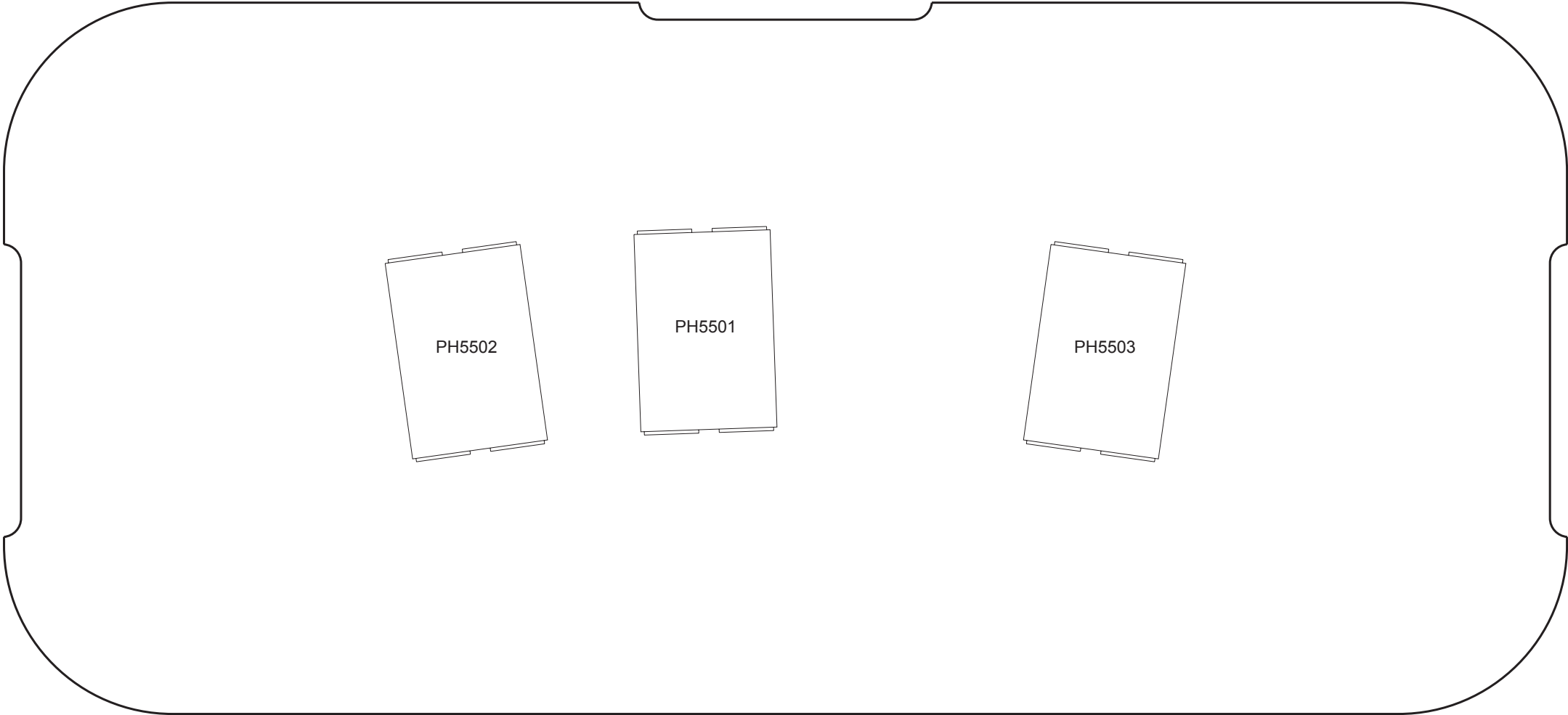
LED-509 -B SIDE-
SUFFIX: -11



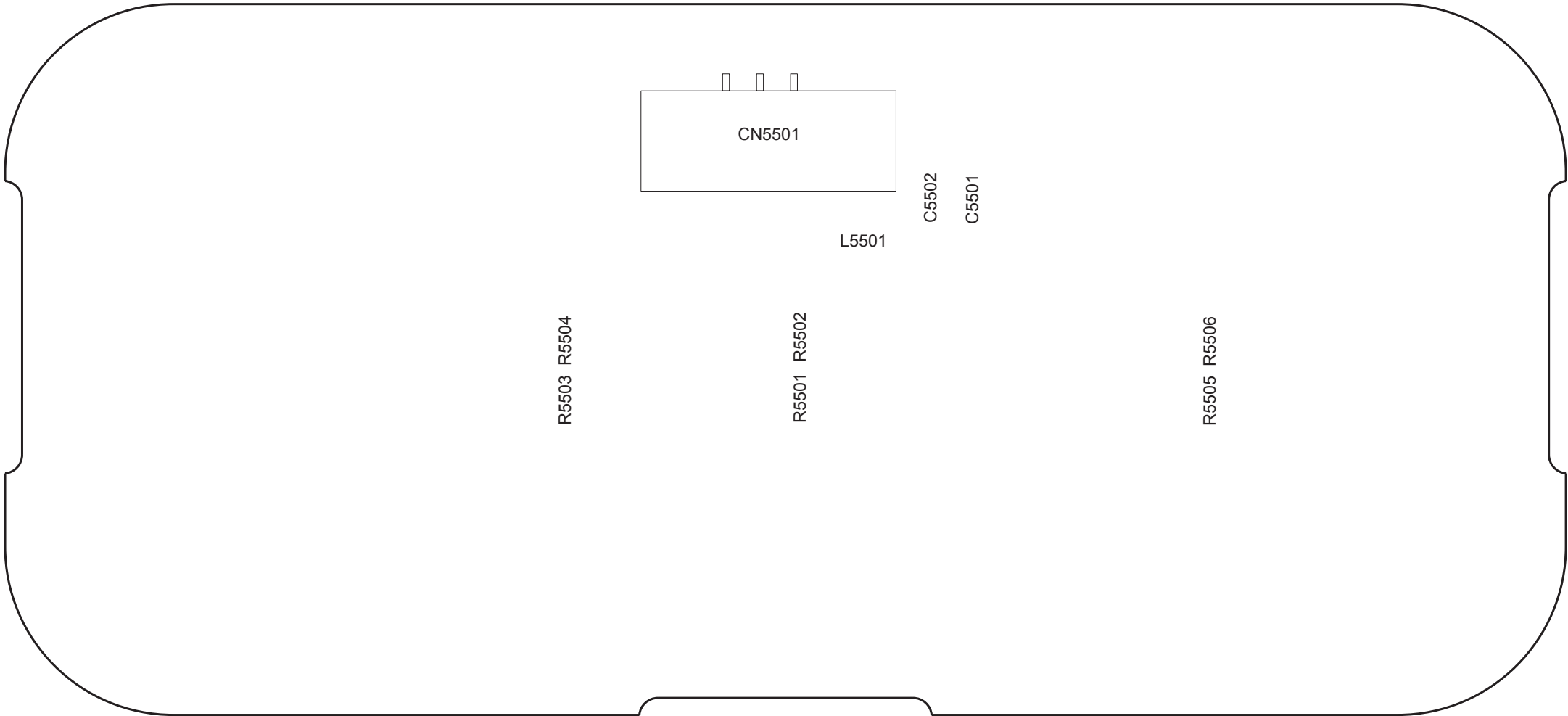
LED-513 -A SIDE-
SUFFIX: -11



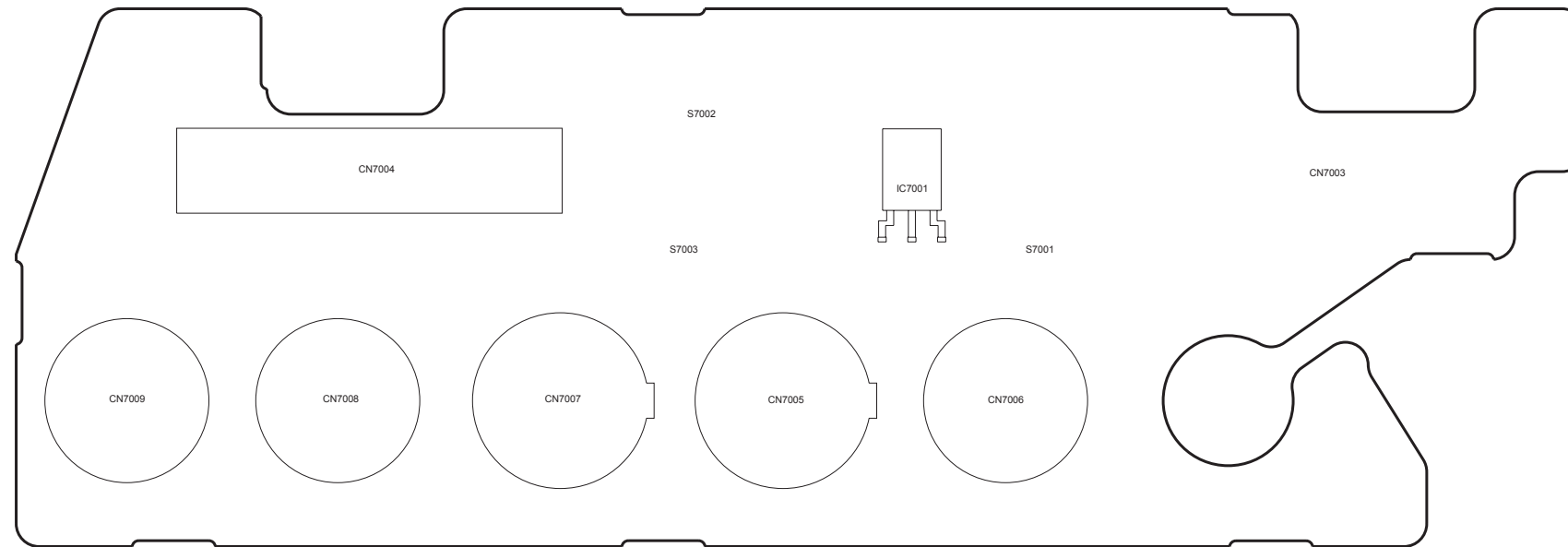
LED-513 -B SIDE-
SUFFIX: -11



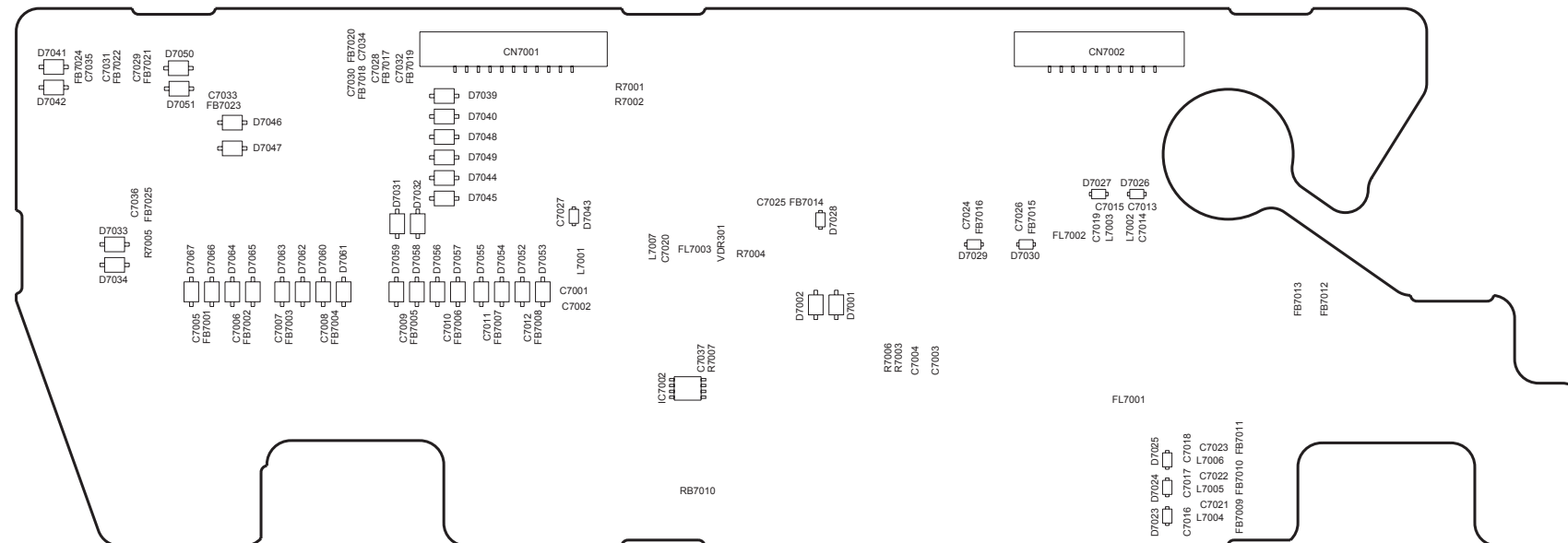
PS-842 -A SIDE-
SUFFIX: -11



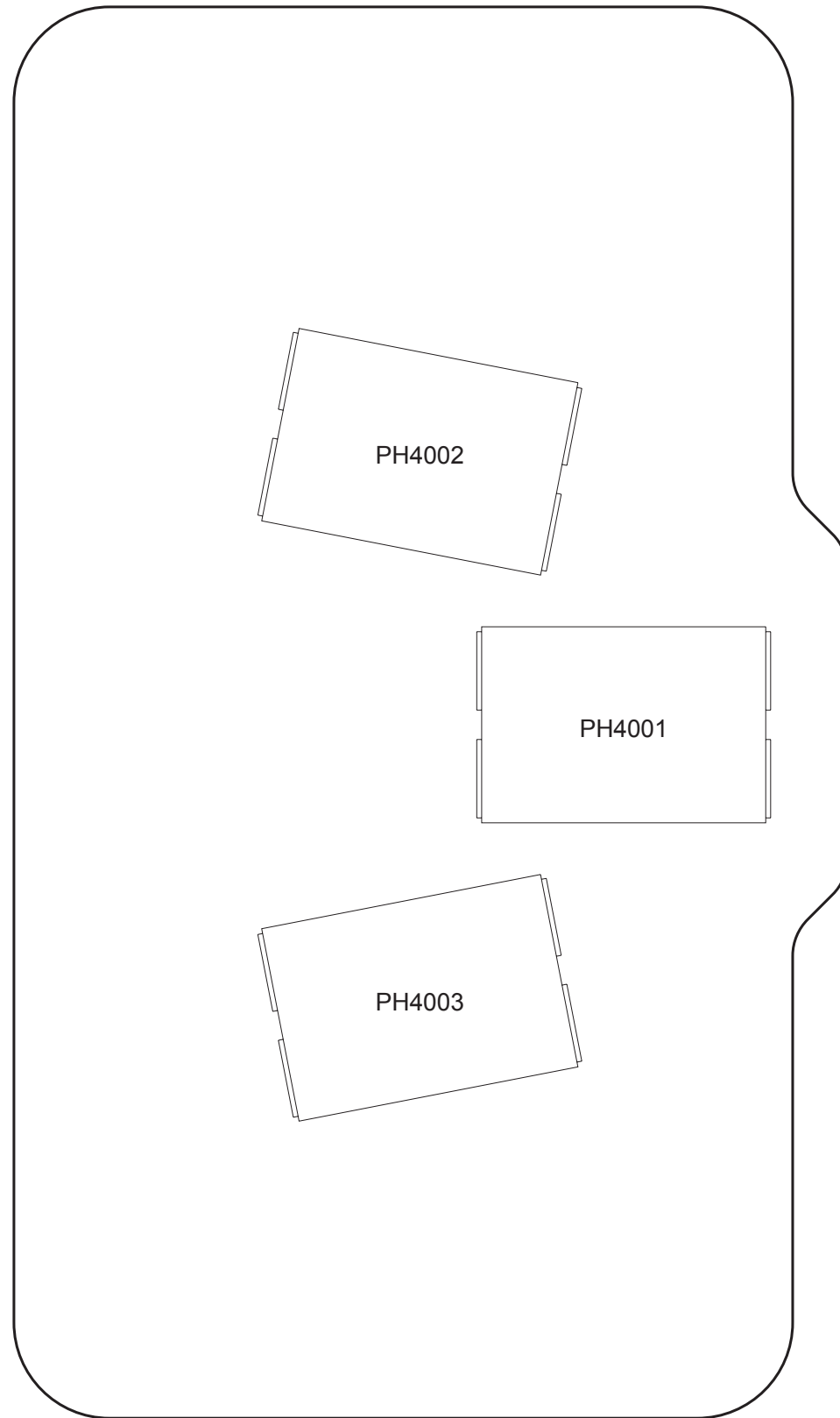
PS-842 -B SIDE-
SUFFIX: -11



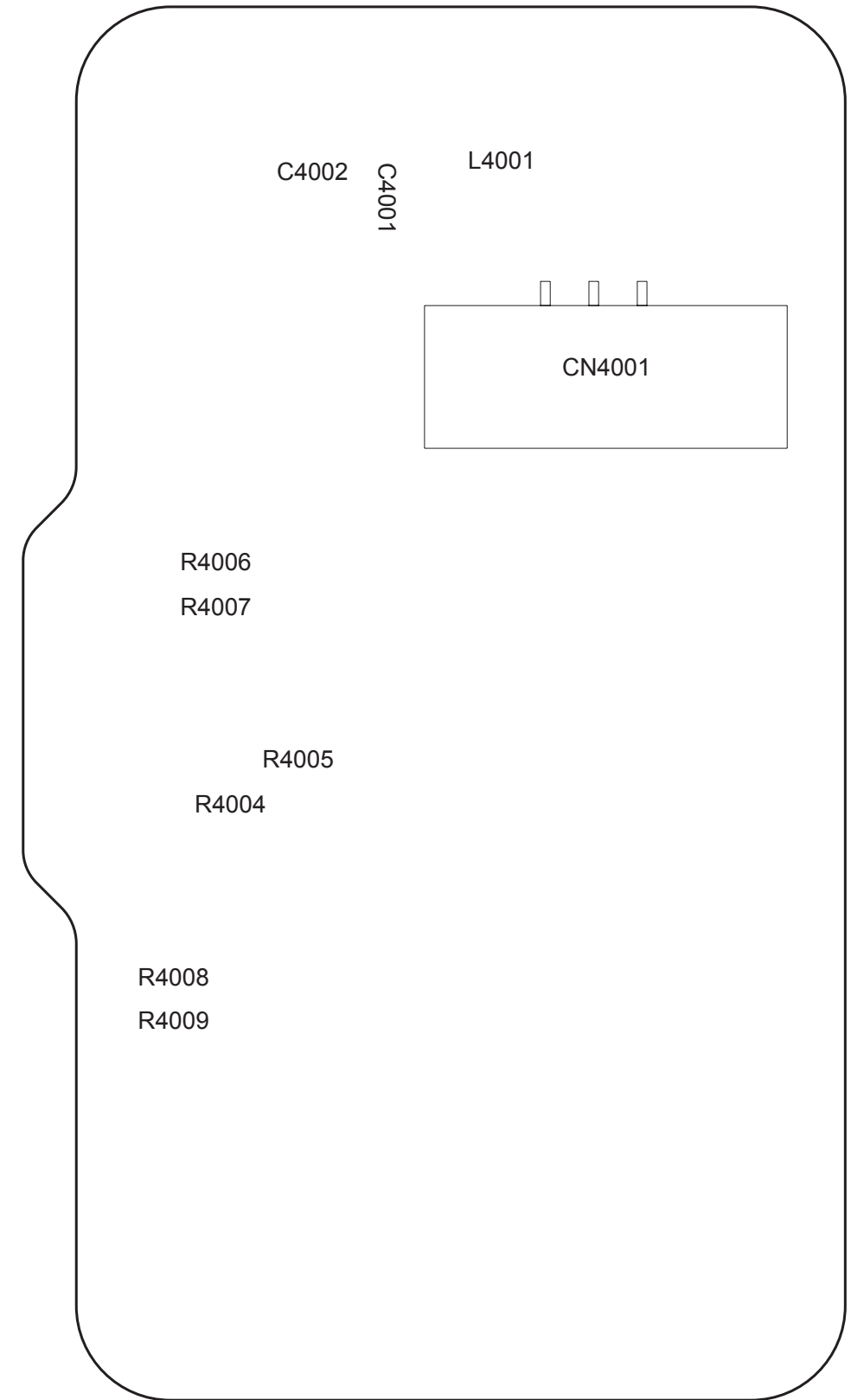
SW-1532 -A SIDE-SUFFIX: -11



SW-1532 -B SIDE-
SUFFIX: -11



TSI-66 -A SIDE-
SUFFIX: -11



TSI-66 -B SIDE-
SUFFIX: -11

BRC-H900 (CE)
BRC-H900 (CN)
BRC-H900 (J)
BRC-H900 (UC) J, E
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