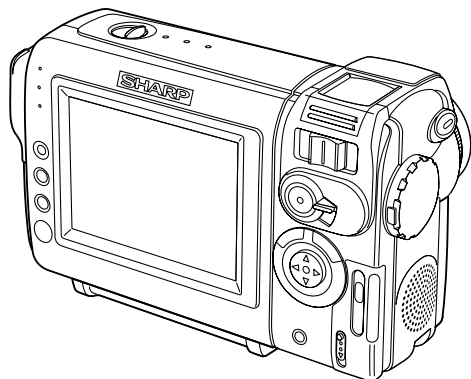


SHARP SERVICE MANUAL

S42H9VL-NZ50S

LIQUID CRYSTAL DIGITAL CAMCORDER PAL



VL-NZ50S/H/E/W VL-NZ80H MODELS VL-NZ100S/H/E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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1. SPECIFICATIONS

Signal System: PAL standard
Recording System: 2 rotary heads, helical scanning system
Cassette: Digital VCR Mini DV video cassette
Recording/Playback Time: 90 minutes (DVM60, LP mode)
Tape Speed: SP mode: 18.831 mm/second
LP mode: 12.568 mm/second
Pickup Device: 1/4" (6.4 mm, effective size: 4.5 mm) CCD image sensor
(with approx. 800,000 pixels including optical black)
Lens: 10 × optical/300 × digital power zoom lens (F1.8, f=3.6-36.0 mm), full-range auto focus
Lens Filter Diameter: 27 mm
Monitor: 3" (7.5 cm) full-color LCD screen (TFT active matrix)
Microphone: Electret stereo microphone
Color Temperature Compensation: Auto white balance with white balance lock
Minimum Illumination: 1 lux* (with gain-up, F1.8)
Still Image Compression System
(VL-NZ80H/NZ100S/H/E only): JPEG base line conformance
Still Image Recording Format
(VL-NZ80H/NZ100S/H/E only): JPEG (Exif2.1)
Still Image Recording Medium
(VL-NZ80H/NZ100S/H/E only): SD Memory Card, MultiMediaCard
Power Requirement: DC 7.4 V
Power Consumption: 4.3 W (during camera recording in Full Auto mode with zoom motor off and backlight normal mode)
Operating Temperature: 0°C to +40°C
Operating Humidity: 30% to 80%
Storage Temperature: -20°C to +60°C
Dimensions (approx.): 141.1 mm (W) × 85.1 mm (H) × 58.5 mm (D)
Weight (approx.): VL-NZ50S/H/E/W: 460 g
VL-NZ80H/NZ100S/H/E: 465 g
(without battery pack, lithium battery, video cassette, lens cap, lens hood, wrist strap and card(VL-NZ80H/NZ100S/H/E only))

AC Adapter(UADP-0342TAZZ)

Power Requirement: AC 110-240 V, 50/60 Hz
DC Output: 10 V
Dimensions (approx.): 46.0mm (W) × 29.0mm (H) × 111.0 mm (D)
Weight (approx.): 170 g

SD Memory Card(VL-NZ80H/NZ100S/H/E only)

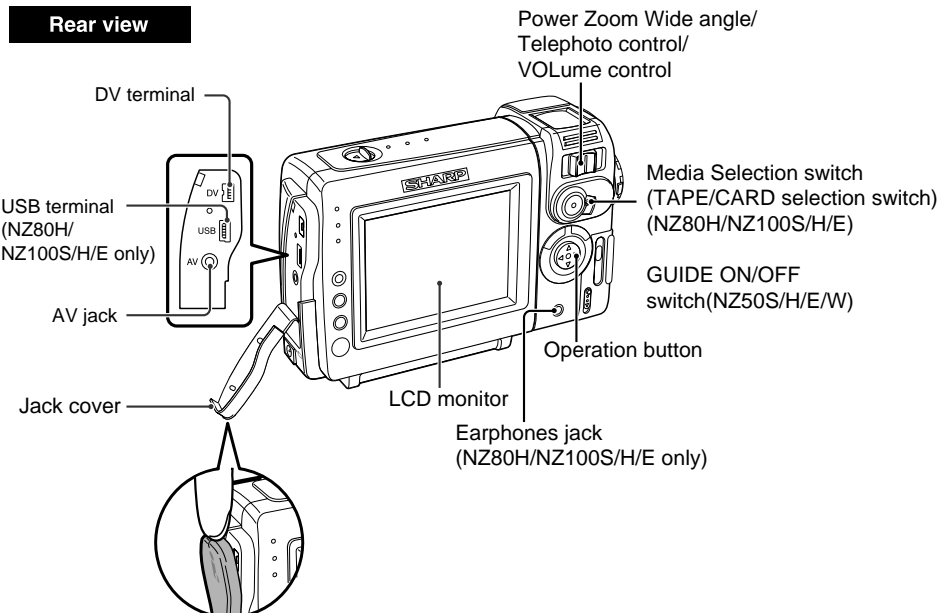
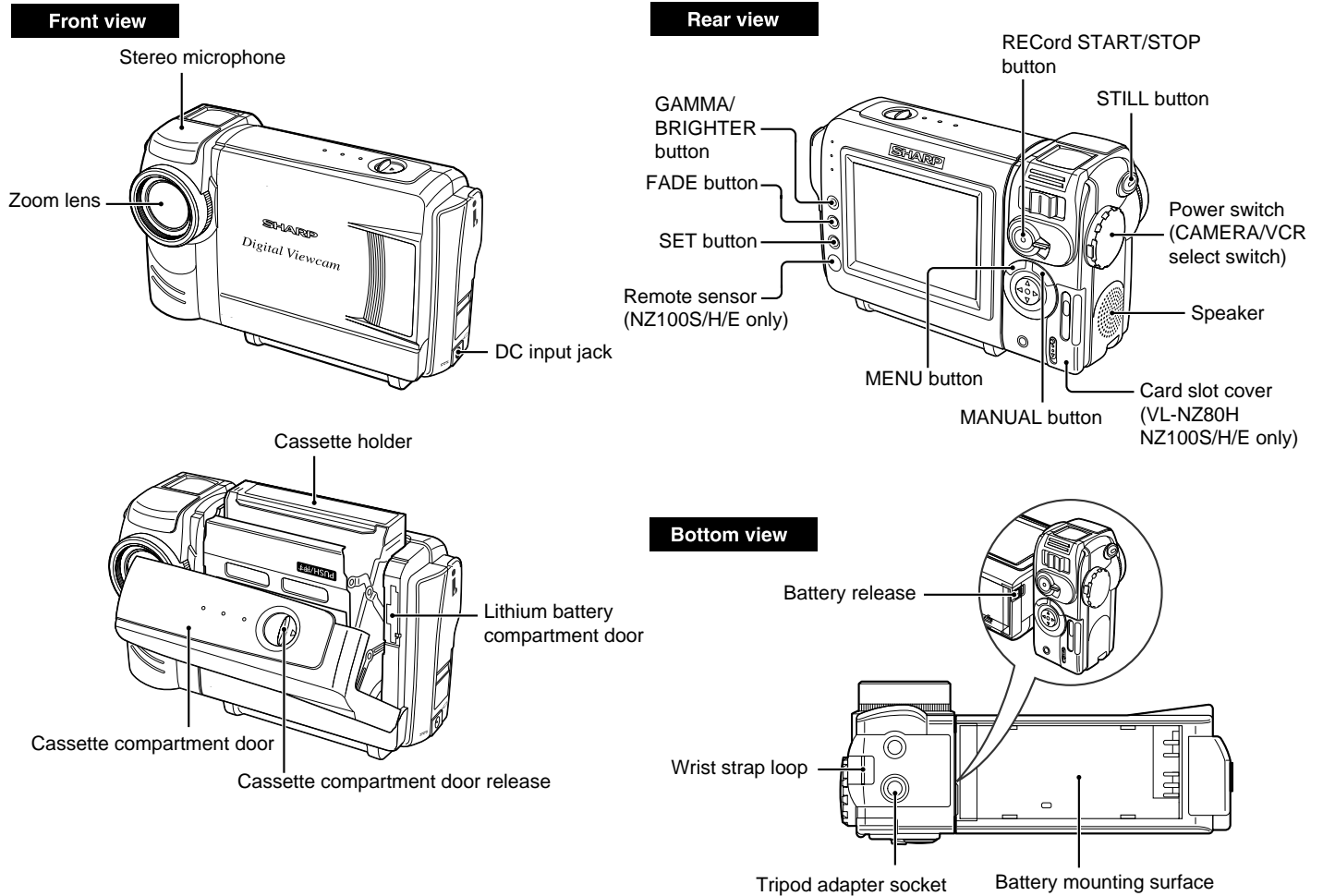
Memory Capacity: 8 MB
Power Requirement: 3 V
Operating Temperature: 0°C to +40°C
Storage Temperature: -20°C to +65°C

Specifications are subject to change without notice.

*Minimum illumination: Since there is no widely accepted testing procedure for determining minimum illumination capability, lux ratings are comparable only between models from the same manufacturer.

2. PART NAMES

For details on the use of each control.

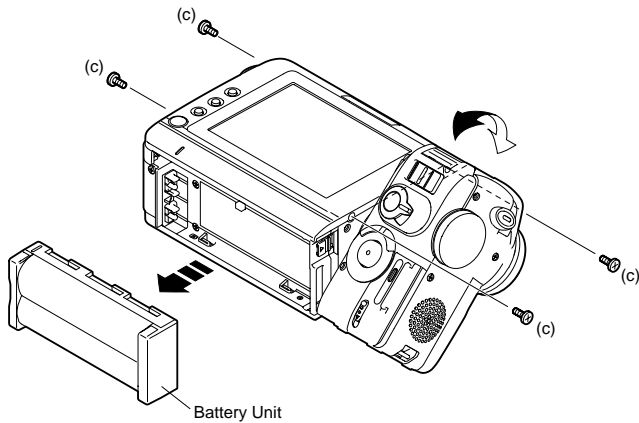


3. DISASSEMBLY OF THE SET

Note:

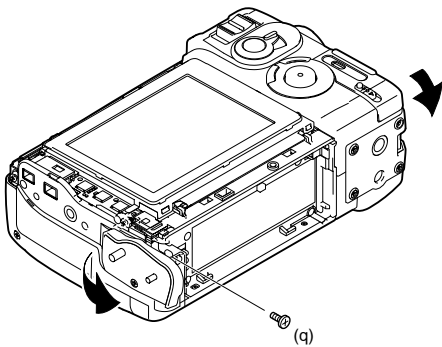
Before removing the cabinet, turn off the power supply, and ascertain that the battery have been removed.

1.



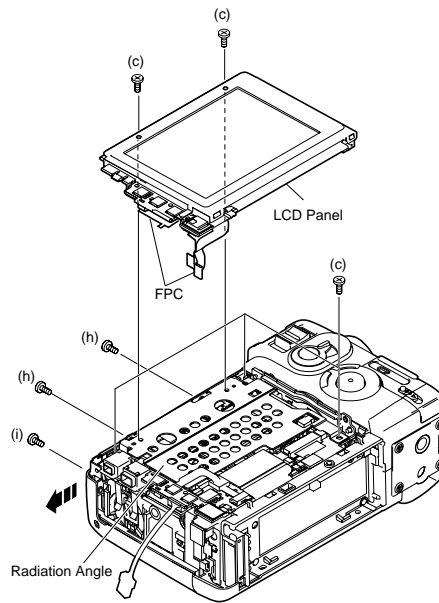
- 1) Remove the battery unit.
- 2) Remove the 4 screws ((c)XiPSN17P03000).

2.



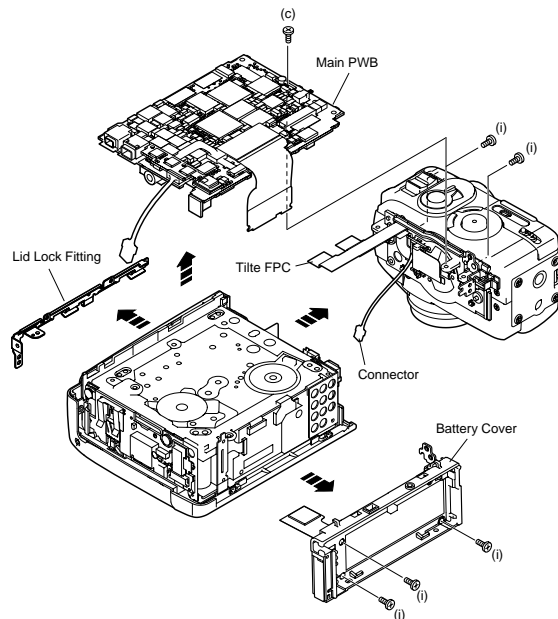
- 1) Remove the 1 screw ((q)LX-HZ0050TAFF) .

3.



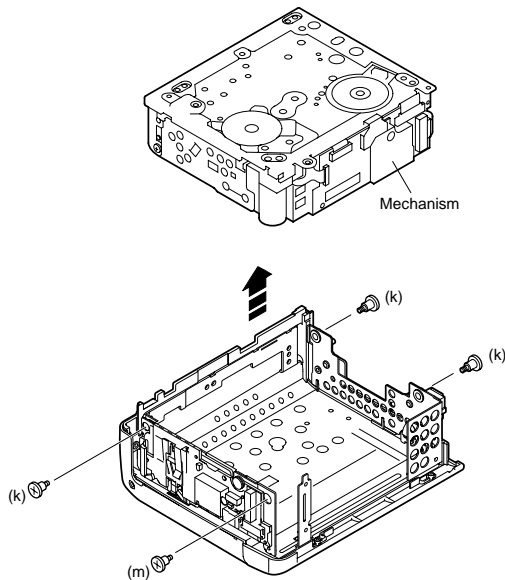
- 1) Remove the 1 screw ((i)XiPSF17P03000) and 2 screws ((h)XiPSF17P02000).
- 2) Remove the 2 screws ((c)XiPSN17P03000) to detach the VCR operation PWB. Then remove the FPC of the LCD panel and FPC of the reflector to detach the LCD panel.
- 3) Remove the 3 screws ((c)XiPSN17P03000) to detach the radiation angle.

4.



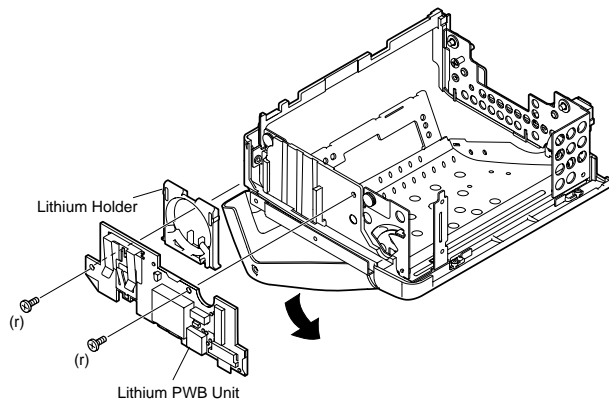
- 1) Remove the 1 screw ((c)XiPSN17P03000) and disconnect the tilt FPC to detach the main PWB.
- 2) Remove the lid lock fitting.
- 3) Remove the 3 screws ((i)XiPSF17P03000) to detach the battery cover.
- 4) Remove the 2 screws ((i)XiPSF17P03000) and disconnect the connector to detach the lens section.

5.



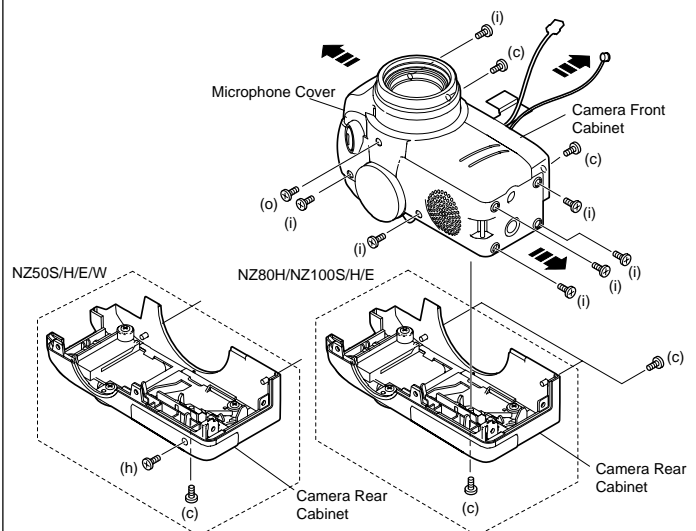
- 1) Take the mechanism out.
- 2) Remove the 3 floating screws A ((k)LX-BZ0251TAFD) and 1 floating screw B ((m)LX-BZ0253TAFN).

6.



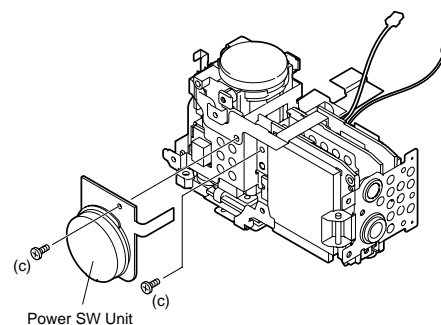
- 1) Remove the lithium holder and 2 screws ((r)XiPSN17P04000) to detach the lithium PWB unit.

7.



- 1) Remove the 3 screws ((c)XiPSN17P03000), 4 screws ((i)XiPSF17P03000) and 1 screw ((h)XiPSF17P02000) (NZ50S/H/E/W only) fixing the camera rear cabinet to detach it. (Note: When detaching the camera rear cabinet, pay attention to the FPC of the camera operation unit.)
- 2) Remove the 2 screws ((i)XiPSF17P03000) and detach the camera side cover in the direction of the arrow. (Note: When detaching the side cover, pay attention to the lead wire of the speaker.)
- 3) Remove the 1 screw ((i)XiPSF17P03000) and 1 screw ((o)XiPSN17P06000) and detach the microphone cover in the direction of the arrow. (Note: When detaching the microphone cover, pay attention to the lead wire of the microphone.)
- 4) Remove the 2 screws ((c)XiPSN17P03000) and camera front cabinet.

8.



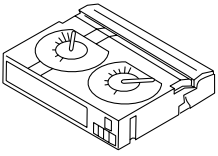

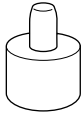
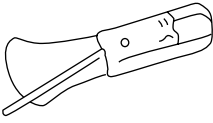
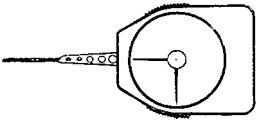
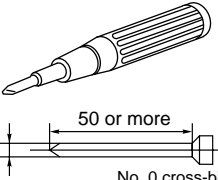
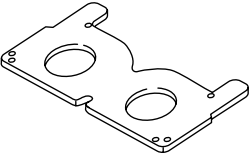
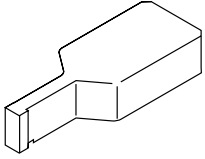
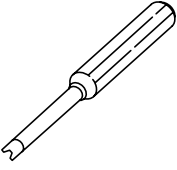
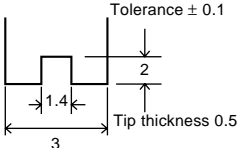
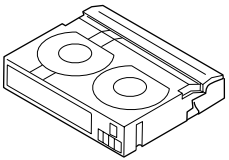
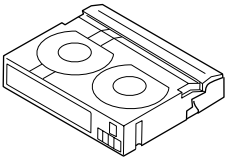
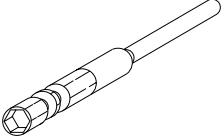
- 1) Remove the 1 screw ((c)XiPSN17P03000) to detach the power SW unit. (Note: When detaching the power SW unit, pay attention to the FPC.)
- 2) Remove the 1 screw ((c)XiPSN17P03000) to detach the lens unit.

4. MECHANISM ADJUSTMENT JIGS AND PARTS

4-1. Mechanism check adjustment jigs

<Note: The entries of list>

Configuration
1. Name
2. Part No.
3. Code
* Model, Uses Remarks

 <p>1. PB-use cassette Torque meter 2. 9DASD-1015 3. DB * 1mN·m/1.5mN·m</p>	 <p>1. Torque gauge 2. JiGTG0045 3. CN * For use in VS-REW winding torque measurement.</p>	 <p>1. Torque gauge head 2. 9EQTGH-DH5000 3. BW * For use with the torque gauge listed left.</p>	 <p>1. Tension gauge 4N 2. JiGSG0400 3. BK * For measurement of pinch roller pressure.</p>	 <p>1. Dial tension gauge 2. 9DAPTG-10-10W 3. CA * PTG-10</p>
 <p>1. Torque screwdriver 150mN·m 2. JiGTD1500RTDH 3. CB</p>	 <p>1. Master plane 2. 9EQMP-VLPD1 3. CL * For checking reel base height.</p>	 <p>1. Height adjustment jig 2. 9DAHG-PD1 3. BZ * For height adjusting.</p>	 <p>1. Height adjustment screwdriver 2. 9EQDRIVER-DH5 3. BC * For guide roller adjustment.</p>	<p>* For Tu guide adjustment. * For T roller adjustment. * Bit shape (see figure below).</p> 
 <p>1. Alignment tape - (I) 2. VR3-GAZXS 3. CF * For tape running adjustment.</p>	 <p>1. Alignment tape - (II) 2. VR3-JPZQS 3. CG * For SW point adjustment. * 90ADVC-TAPEPAL can use, too.</p>	 <p>1. For hexagon nut opposite side 3mm bit. 2. 95CM22001 3. BL * For S guide hexagon nut installation.</p>	<p><Miscellaneous></p> <p>(1) Slide caliper (2) Precision screwdrivers (Phillips head and slotted) (3) Radio needle-nose pliers (4) Tweezers</p>	

Configuration
1. Name
2. Part No.
3. Code
* Model, Uses Remarks

4-2. Parts for regular periodic inspection and maintenance

<Note:

The entries of list>

* Model, Uses Remarks

<p>1. Oil Cosmo Hydro HV22 2. 9EQ-Oil-HV22 3. AE * Cosmo Petroleum K.K.</p>	<p>1. Cleaning paper 2. JiGDUSPER 3. AP * DUSPER Σ (SIGMA) (Ozu Co., LTD.)</p>	<p>1. Grease: Moly Coat YM-103 2. 99FGREASE-YM103 * Dow corning 1. Screw lock (1401B) * Three Bond</p>	<p>1. Cleaning liquid: Industrial-use ethyl alcohol * Commercially available item 1. Extremely thin cotton swab * Commercially available item</p>
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<How to make jigs for mechanism checking and adjustment>

- (1) Reel hub for back tension measurement (Fig. 1)
- 1) Obtain a commercially available cassette tape reel hub. (Disassemble the cassette tape and remove the tape from the reel hub.)
 - 2) Paste one end of a string (about 20cm long) to the reel hub with (for example) cellophane tape.
 - 3) Paste the weight of about 0.21N on the upper side reel hub.
- (2) String for use in pinch roller snap-fit force measurement (Fig. 2)
- 1) Obtain an approximately 20cm length of commercially available string.
 - 2) Tie the 2 ends together to form a loop.

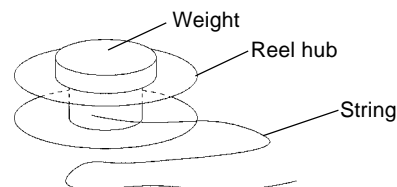


Fig. 1

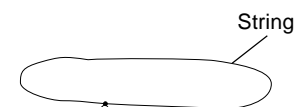


Fig. 2

5. INSPECTION AND MAINTENANCE ITEMS AND INTERVALS

In order to keep the mechanical section always in good condition, perform the following inspection and maintenance at regular intervals. In addition, after repair, perform the following maintenance items regardless of how long the user has been using the unit.

5-1. List of inspection and maintenance items

○...Replace. □...Clean. △...Lubricate. ★...Check.

	Inspection and maintenance location	Time of use (h)					Symptoms that indicate need for maintenance	Remarks
		500	1,000	1,500	2,000	3,000		
Tape running system	Tape running section (see section 7-3)	□	□	□	□	□	<ul style="list-style-type: none"> Block-type noise Head hole clogging Tape damage 	Note: Replace the drum ass'y if the video head is cleaned but the envelope still does not appear. (When the envelope is normal, refer to "10. USEFUL TIPS".)
	Drum section, Video head (see section 7-3)	□	□	□	□	□		
		<Rollers> • Replace if there is anything abnormal in the rotation, or if there is run-out (that becomes large). <Other than the above> • Clean the section that contacts the tape (especially the lower drum helical section). Use the specified cleaning liquid.						
Drive system	Timing belt	—	★○	—	★○	★○	<ul style="list-style-type: none"> The tape fails to run. The tape becomes slack. Block-type noise Abnormal noise 	<ul style="list-style-type: none"> Replace if there is anything abnormal.
	Pinch roller	□	□	□	□○	□		
	Capstan motor	—	○	—	○	○		
	Swing arm S reel base, Tu reel base	—	★○	—	★○	★○		
	Center pulley shaft Intermediate pulley shaft Swing arm boss Intermediate gear A shaft, Intermediate gear B shaft	—	△	—	△	△	<ul style="list-style-type: none"> Abnormal noise 	<ul style="list-style-type: none"> Lubricate with oil. [Oil] Cosmo Hydro HV22 Note: Apply oil to the shaft, then wipe lightly with a cloth.
	Loading motor Mode switch	—	★○	—	★○	★○	<ul style="list-style-type: none"> Cannot eject. Fails to enter a mode. 	<ul style="list-style-type: none"> Replace if anything is abnormal (including the noise).
Performance checks	Abnormal noise	★	★	★	★	★	<ul style="list-style-type: none"> The tape fails to run. The tape becomes slack. Tape damage The play-back image is abnormal. 	<ul style="list-style-type: none"> Replace any part that fails to perform within the standard.
	PB · VS/R winding torque	—	★	—	★	★		
	PB · VS/R · loading back tension Tu reel base ratchet torque	—	★	—	★	★		
	S reel base no-load torque	—	★	—	★	★		

[Oil] Cosmo Hydro HV22

[Screw lock] Three Bond 1401B

[Grease] Moly Coat YM-103

[Cleaning liquid] Industrial-use ethyl alcohol

5-2. Precautions

- When replacing any part, always replace the cut washer that was removed with a new one.
- This mechanism does not have control adjustment. If the control cannot be set as required, clean and or replace parts.
- On the oil
 - Always use the specified oil. (Using another kind of oil can cause various kinds of trouble.)
 - Always use clean oil, without any mixed-in dirt, to lubricate bearings. (Using oil with dirt mixed in can cause the bearings to wear or to stick.)
 - One drop of oil is the amount shown in the Fig. 1, on the point of a pin.
- Perform circuit repair, tape running adjustment, etc. with the cassette controller assembly attached to the mechanism.
- When operating the mechanism separately, apply voltage to the loading motor. However, the terminal voltage must be DC3V~4V. (When the mechanism is connected to the main PWB, do not apply external voltage to the loading motor. It may cause a trouble.) (Forcing the gears to turn by hand entails danger of breakage.) If the mechanism is separated from the unit, the capstan motor may rub and be damaged if spacing under the mechanism is inadequate.
- To install the cassette controller, push section A in the Fig. 2. Do not push anything else.
- Do not deform any of the mechanical parts.

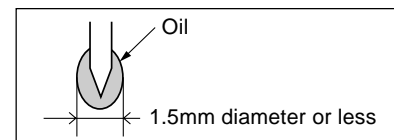


Fig. 1

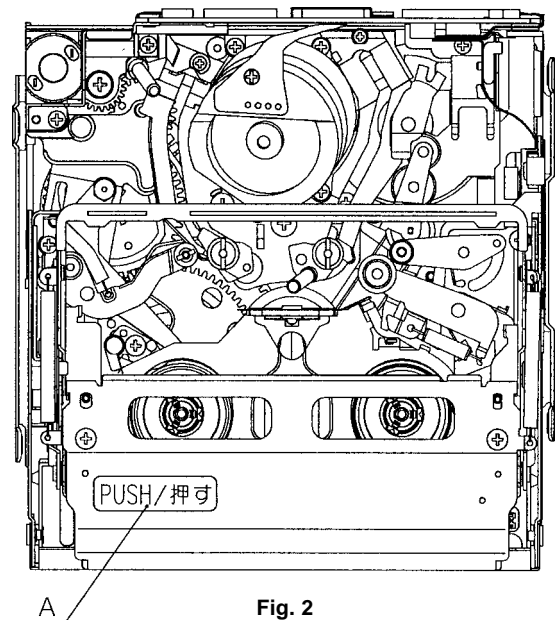


Fig. 2

6. MECHANICAL ADJUSTMENTS AND CHECKS

The items discussed here relate to general on-site servicing (field servicing). Adjustments and replacements that require sophisticated facilities, jigs and technology are omitted.

In addition, in order to maintain the characteristics that the unit has when it is new, not only are inspection and maintenance necessary, but it is absolutely necessary that, for example, the tape not be damaged, and always use jigs for adjustments that require them.

<Precautions>

(1) Always set the power supply and state of the unit as follows Notes for mechanism adjustments and checks.

AC adapter used, with cassette controller assembly

AC adapter used, without cassette controller assembly (Independent Mechanism)

DC3V, without cassette controller assembly (Independent Mechanism)

- (2) When the mechanism is connected to the main PWB, do not apply external voltage to the loading motor. It may cause a trouble.
(3) Always run the tape with the cassette controller assembly attached.

6-1. Checking the playback (recording) winding torque AC adapter used, with cassette controller assembly

(1) Set the torque cassette with the cassette controller assembly attached, then, in SP recording mode (playback mode if a signal has already been recorded in SP mode on the tape), confirm that the torque on the winding side is within the standard.

<Winding torque standard in record (playback) mode>

(If there is torque ripple, read the center value.)

0.70 +0.4/-0.3mN·m, ripple 0.4mN·m or less

6-2. Checking the rewinding playback (VS-REW) winding torque

AC adapter used, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly, press the DOWN switch, using the adhesive tape and referring to 8-3, operate in the TEST mode (T01) to rewind, and set the rewinding playback (VS-REW) mode.

(2) Set the torque gauge on the S reel base, press the front end of tension post with your finger in the arrow A direction so as to ascertain that the winding torque is as specified. (Check without rotating the torque gauge.)

<Rewinding playback (VS-REW) winding torque standard>

(If torque ripple exists, read its center value.)

1.6 ± 0.6mN·m, ripple 0.5mN·m or less

(3) After checking the winding torque remove the torque gauge, and remove the adhesive tape used in item (1) above (refer to 8-3). The STANDBY mode is set automatically.

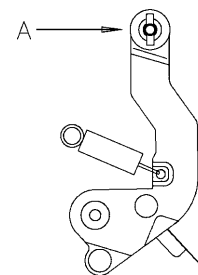


Fig. 1. Removal of tension band when measuring the rewinding playback (VS-REW) winding torque

6-3. Checking of reel base height DC3V, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly (refer to 8-2).

(2) Referring to 8-1, apply DC3V to the loading motor and put the system into playback mode.

(3) Taking adequate care so that the master plane does not contact drum, running parts (guide roller, etc.), or the MIC contacts. Fit the master plane holes to the 2 guides (A and B) in Fig. 2.

(4) Confirm that the heights of the S reel base reel receiving surface and the Tu reel base reel receiving surface below the master plane top surface are within the set values, using, for example, a slide calliper (Fig. 3).

When checking the S reel base height, press the front end of tension post in the arrow A direction with your finger to release the tension band, and then check the height in this state (Fig. 1).

(5) If the height is not within set values, replace the washer under the reel base, and adjust as specified.

Note: After the adjustment, make sure that the reel bases rotate smoothly.

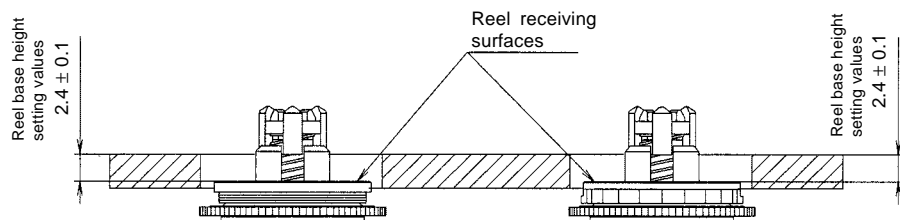


Fig. 3

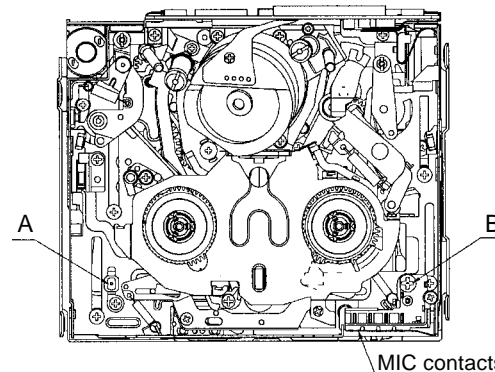


Fig. 2

6-4. Back tension torque check and adjustment in record (playback) mode

AC adapter used, with cassette controller assembly

(1) Checking

Set the torque cassette (SD-1015), and make sure in the SP record mode that the supply side torque is within the standard shown below (or in the playback mode for the tape on which the signal has been SP-recorded).

<Standard>

(If torque ripple exists, read its center value.)

$0.7 \pm 0.1 \text{ mN}\cdot\text{m}$

(2) Adjustment (Fig. 4)

If the value is out of standard range, adjust, using the screw 1 shown in Fig. 4.

1. Loosen the screw 2 slightly.
2. Adjust to turning the screw 1. When back tension is too high, turn the screw 1 counterclockwise (CCW).
When back tension is too low, turn the screw 1 clockwise (CW).
3. After adjustment fix the angle with the screw 2. (At this time take care so as to prevent excessive tightening.) Apply Screw Lock to the screw 1.

<Caution>

Screw tightening torque: $0.04 \text{ N}\cdot\text{m}$

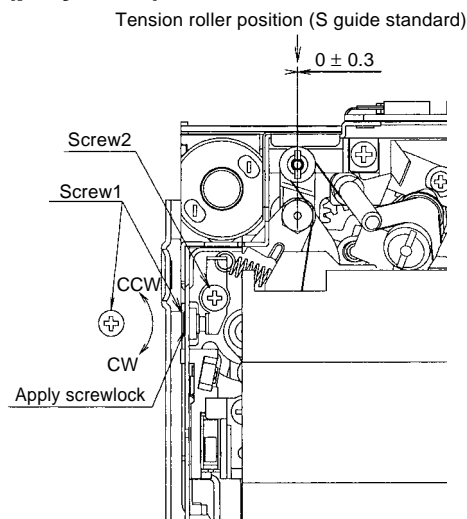


Fig. 4. Check (tape exists)

6-5. Checking and adjustment of tension roller position in record (playback) mode

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Checking

Before winding the 60-min tape make sure that the tension roller is in the same position as S guide as shown in Fig. 4.

If not, take out the tape and adjust in the following procedure.

(2) Adjustment (Fig. 5)

1. Set the playback mode without loading the tape.
2. Loosen the screw 3 slightly (to such an extent that the tension band holder 4 can be moved).
3. If the tension roller is inside from the specified position, shift the tension band holder 4 in the arrow (A) direction. If the tension roller is outside, shift the tension band holder in the arrow (B) direction, and fix with the screw 3. (Proper shift must be 0.2 to 0.6mm outside from the specified position.)
4. Check the position by the procedure described in item (1) Checking above.
5. If the position is not specified position, adjust again.

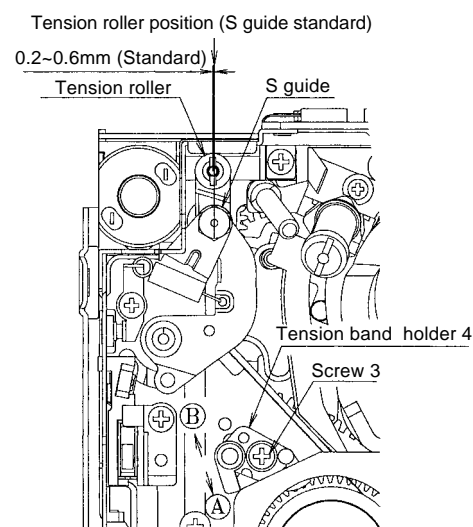


Fig. 5. Position adjustment (tape does not exist)

6-6. Checking of supply S reel base no-load torque

DC3V, without cassette controller assembly (Independent Mechanism)

- (1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into L. start mode (refer to 8-1).
- (2) Move the swing arm toward the Tu reel base side.
Be careful not to cause damage to the gears and other parts in the process. (Fig. 6)
- (3) Set a back tension measurement reel hub on the S reel base.
- (4) Using a dial tension gauge, pull the string in the A direction, then confirm that the tension is within the standard.

<FF back tension standard>

(If the tension fluctuates, read its center value.)
 30 mN or less

6-7. Checking of loading back tension

DC3V, without cassette controller assembly (Independent Mechanism)

- (1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into L. start mode. (refer to 8-1)
- (2) Move the swing arm toward the S reel base side. Be careful not to cause damage to the gears and other parts in the process. (Fig. 7)
- (3) Set a back tension measurement reel hub on the Tu reel base.
- (4) Using a dial tension gauge, pull the string in the A direction, then confirm that the tension is within the standard.

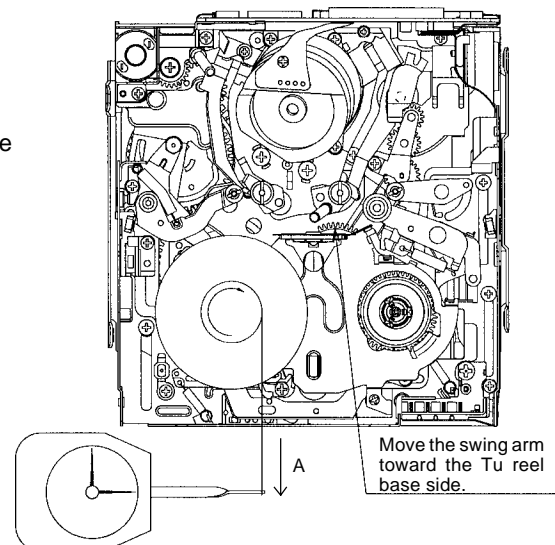


Fig. 6. S reel base no-load torque measurement method

<REW back tension standard>

(If the tension fluctuates, read its center value.)
15 ± 12mN

6-8. Checking of winding Tu reel base ratchet torque

DC3V, without cassette controller assembly (Independent Mechanism)

- (1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into standby mode. (refer to 8-1)
- (2) Move the swing arm toward the S reel base side.
Be careful not to cause damage to the gears and other parts in the process. (Fig. 8)
- (3) Set a back tension measurement reel hub on the Tu reel base.
- (4) Using a dial tension gauge, pull the string in the A direction, then confirm that the tension is within the standard.

<Winding Tu reel base ratchet torque standard >

(If the tension fluctuates, read its center value.)
100mN or less

6-9. Checking of rewinding playback (VS-REW) back tension

DC3V, without cassette controller assembly (Independent Mechanism)

- (1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into rewinding playback (VS-REW) mode. (refer to 8-1)
- (2) Move the swing arm toward the S reel base side.
Be careful not to cause damage to the gears and other parts in the process.
- (3) Set a torque gauge on the Tu reel base.
- (4) Turning the torque gauge to counterclockwise (1 turn for 3 seconds), then confirm that the torque is within the standard.

<Rewinding playback (VS-REW) back tension standard value>

(If the tension fluctuates, read its center value.)
0.70 +0.6/-0.3mN·m

6-10. Checking of pinch pressing force

DC3V, without cassette controller assembly (Independent Mechanism)

- (1) Set the pinch roller pressing force measuring thread on the pinch lever (position A, Fig. 9).
- (2) Set the mechanism to the playback mode, press the pinch roller against the capstan shaft.
- (3) Fit the tension gauge to the pinch roller pressing force measuring thread, pull in the arrow B direction shown in Fig. 11 to separate a little the pinch roller from the capstan shaft.
- (4) Gradually return the pinch roller, and when the pinch roller contacts parallel the capstan shaft, read the value (see Fig. 10) to make sure that the value conforms to the standard shown below.

<Standard>

1.8 +0.3/-0.5N

<Caution>

After making this measurement, quickly release the system from playback mode and remove the pinch roller from the capstan shaft. (If the pinch roller is left fitted onto the capstan shaft for a long time, the pinch roller will be deformed.)

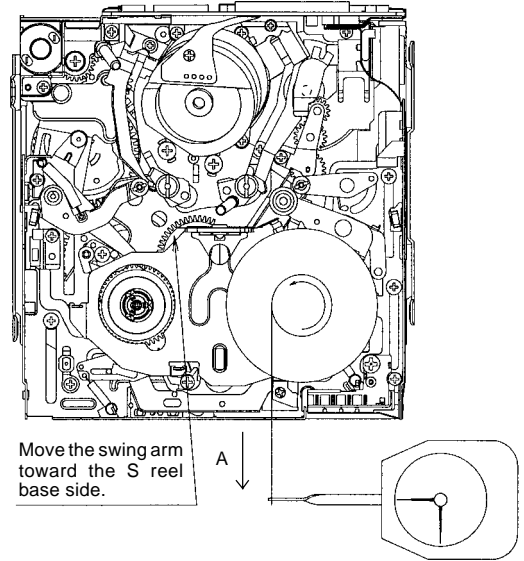


Fig. 7. Loading back tension measurement method

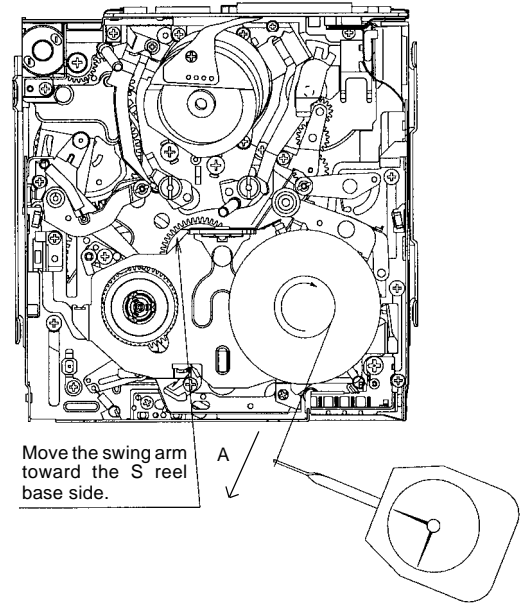


Fig. 8. Winding Tu reel base ratchet torque measurement method

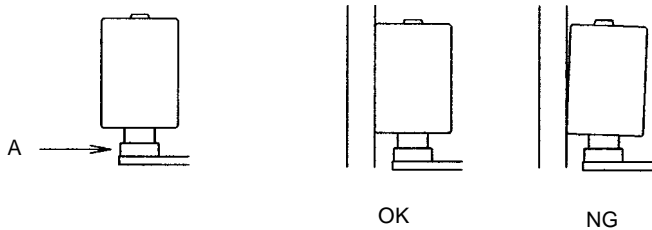


Fig. 9

Fig. 10

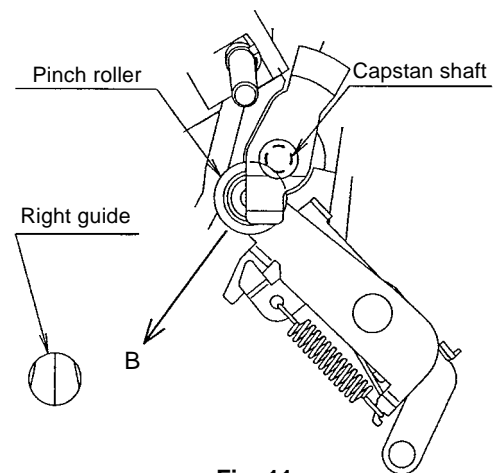
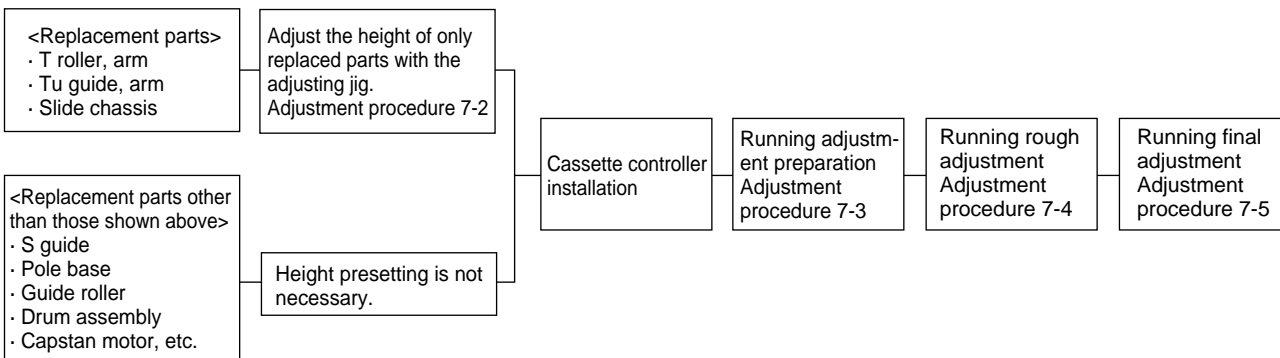


Fig. 11

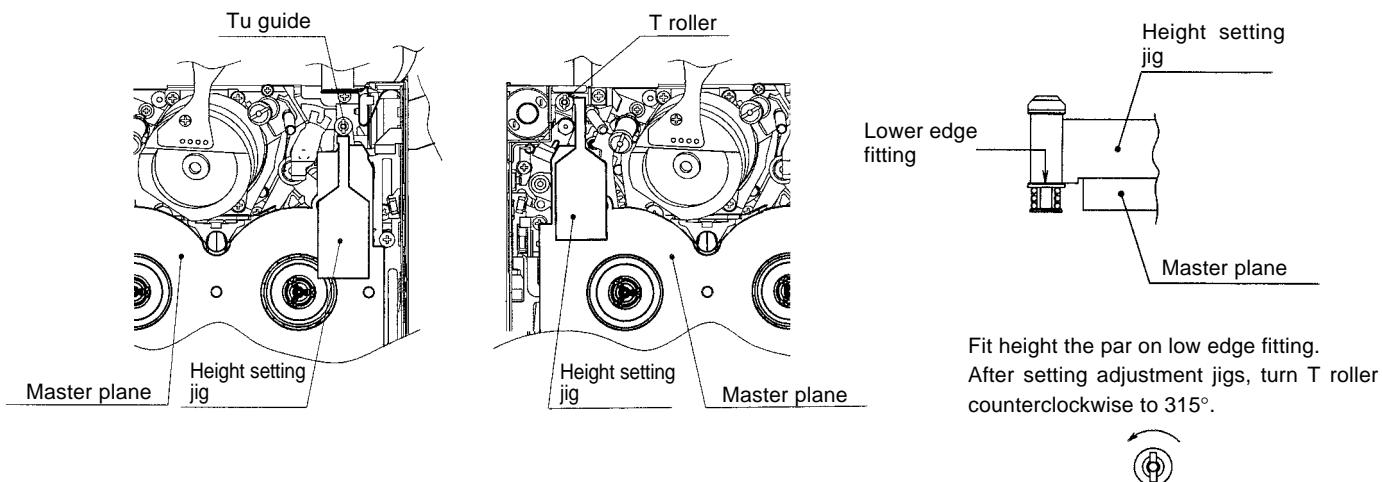
7. TAPE RUNNING ADJUSTMENT

7-1. Adjustment locations



7-2. Running height adjustment

- After replacement of T roller or Tu guide adjust the height. (Adjust only the replaced parts.)
- After height adjustment do not turn the T roller. If crease is found on the tape of Tu guide, remove the crease by rotating. (As for details refer to the "Running rough adjustment".)
- After height adjustment of T roller or Tu guide, apply Screw lock to an end of shaft. (After replacement of S guide apply Screw lock to same point, too.)

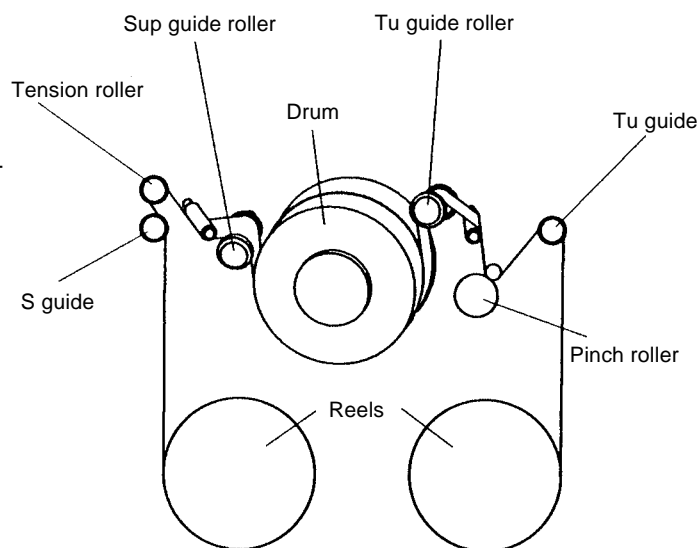


7-3. Preparation for tape running adjustment

Meters, jig... Oscilloscope, Adjustment remote control, Height adjustment screw driver, Alignment tape (for tape running adjustment, for switch point adjustment), Master plane, Height adjustment jig.

<Method and description>

- Clean the tape running surface (especially, adequately clean the drum surface and the lower drum helicam surface).
- Attach the cassette controller.
- Connect an oscilloscope to each TP on the relay circuit board.
- Turn the AC adapter power ON.
- Using the adjustment remote control unit, put the system TEST mode T-05.
- Replay the alignment tape for running adjustment, and make sure that the tape is running in the SP mode.
- Check the oscilloscope playback envelope, then, at +1/4 shift and -1/4 shift, check whether all of it is flat. If it is not, perform the following adjustment so that it becomes flat. (Each time you push the PLAY key, the shift will change; +1/4 shift → Normal → -1/4 shift → Normal, in order.)



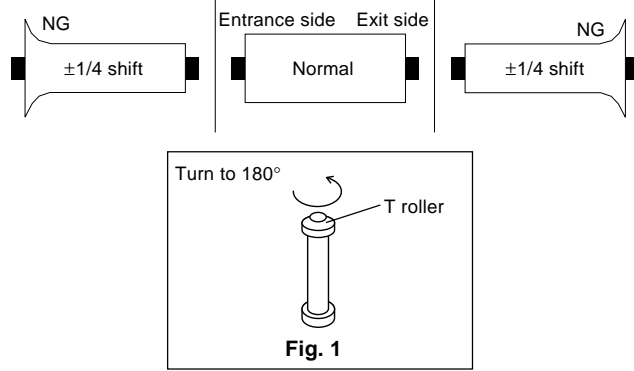
7-4. Running rough adjustment

(With cassette controller)

1) Su, Tu guide roller height adjustment

<Method and description>

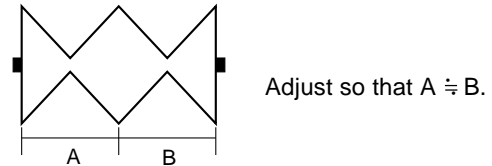
- (1) Loosen the guide roller lock screw, then tighten loosely so that the roller turns easily.
 - (2) Replay an alignment tape, and adjust the Sup, Tu guide roller so that the envelope sides of entrance and exit are flat.
 - (3) Perform $\pm 1/4$ shift, then, as in the above case, adjust until the envelope becomes flat.
- * If running is difficult for the entrance changed, turn the T roller to counterclockwise 180°. (refer to Fig. 1)



2) Check of V/SR envelope wave form

<Method and description>

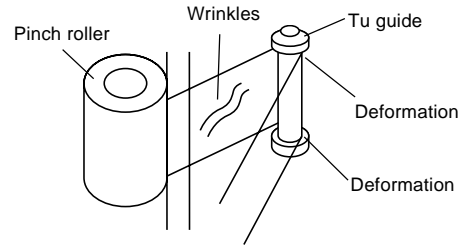
- (1) Confirm that the envelope waveform peaks in V/SR mode are uniform.
- (2) If they are not uniform, fine-adjust the guide roller and the Tu guide.



3) Check of tape wrinkles

<Method and description>

- (1) Check that the tape is not distorted between the Tu guide and pinch in the PB mode and the V/SR mode.
- ⇒ If crease is found, make an adjustment in the range of $\pm 180^\circ$.
- ⇒ After adjustment apply Screw Lock.



4) Check the rising time of the envelope wave form

<Method and description>

- (1) Check the rising time of the envelope when switching from V/SR mode to PB mode. (Within 5 sec)
- (2) Check the rising time of the envelope when switching from STOP mode to PB mode. (Within 5 sec)

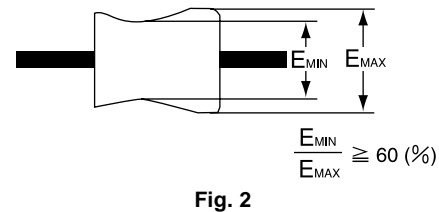
7-5. Final running adjustment

(With cassette controller)

1) Adjustment of Sup and Tu guide roller height

<Method and description>

- (1) Perform $\pm 1/4$ shift, then if the envelope wave's ratio of MAX. to MIN. are 60% or less, adjust again the height of guide roller. (Refer to Fig. 2)
- (2) Finally adjust the lock screw of Sup and Tu guide roller.
- (3) Once perform unloading and then loading to set the PB mode, and make sure that the envelope waveform does not change.



2) Adjustment of playback SWP

<Method and description>

- (1) Playback the alignment tape for switch point adjustment.
- (2) Perform SWP automatic adjustment with adjustment remote control.

* When replacing the mechanism and drum, adjust the phase and equalizer using the adjustment remote control. (Refer to "9. ADJUSTING THE ELECTRICAL CIRCUITS".)

8. MECHANICAL SECTION ASSEMBLY AND PARTS REPLACEMENT (DISASSEMBLY AND REASSEMBLY)

Mechanical section disassembly and reassembly are explained in this section.
For removal of the cabinet, etc., refer to 3. **DISASSEMBLY OF THE SET.**

<Precautions>

1. Always replace cut washers that have been removed, for example in parts replacement, with new ones.
2. When reassembling, be careful not to allow screws, washers or foreign matter to enter. They can cause mechanical misoperation.
3. Use the cleaning liquid, oil, grease and screw lock that are specified below. Use of any other kind can cause mechanical misoperation.

Oil: Cosmo Petroleum : Cosmo Hydro HV22

Screw lock: Three Bond :1401B

Grease: Dow Corning : Moly Coat YM-103

Cleaning liquid: Industrial-use ethyl alcohol

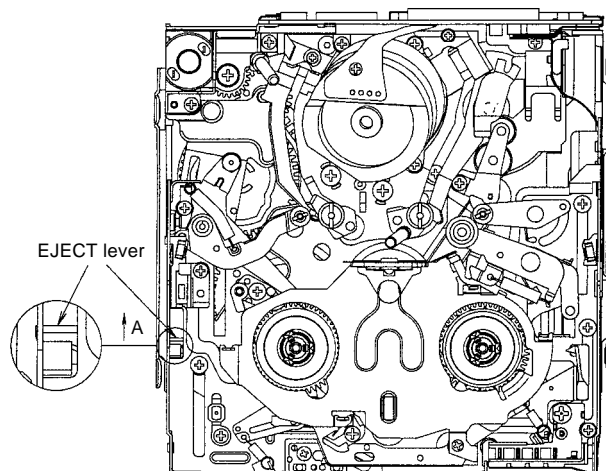
8-1. On the mechanical modes

When operating the mechanism separately, apply DC3~4V to the loading motor.

(When the mechanism is connected to the main PWB, do not apply external voltage to the loading motor. It may cause operational problems.)

(1) EJECT mode

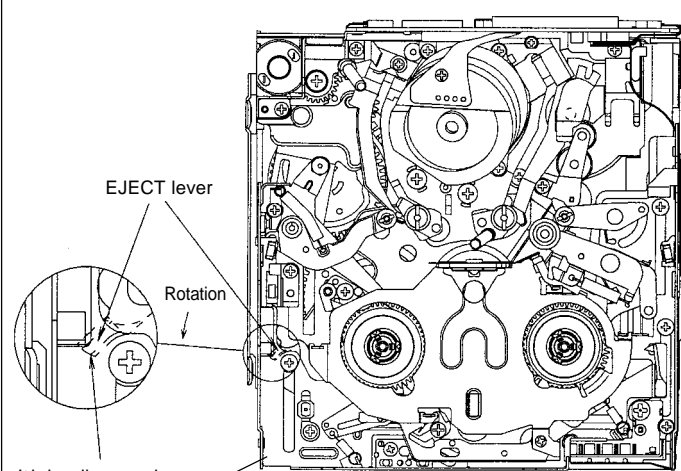
The mechanism position to take out the cassette where the EJECT lever is extremely shifted in the A direction. (It is impossible to lock the cassette controller assembly in this mode.)



EJECT mode diagram

(2) STANDBY mode

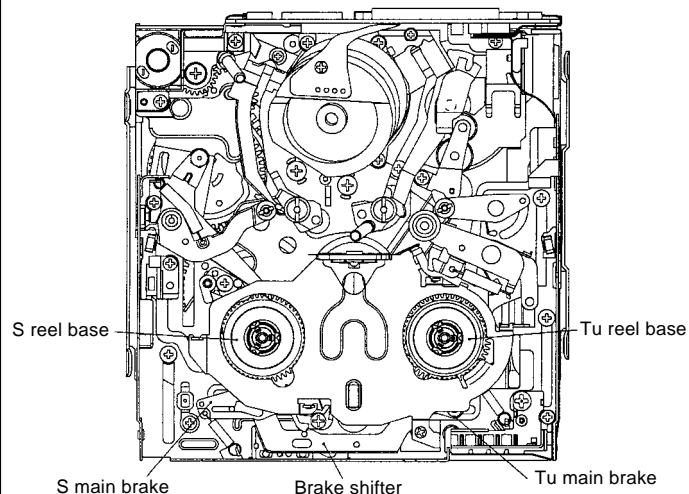
The mechanism position to set the cassette where the slide chassis is at the farthest position from the drum and the EJECT lever is in counterclockwise rotated position (position where the cassette controller assembly can be locked).



STANDBY mode diagram

(3) LOADING START mode

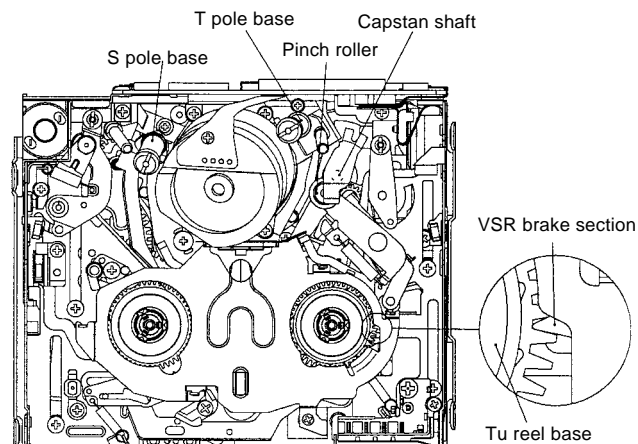
This is the mode where the tape is wound around the winding reel when a cassette with visible wind start leader tape is loaded. (The brake shifter moves to the left, the S main brake is separated from the S reel base and the Tu main brake is separated from the Tu reel base.)



LOADING START mode diagram

(4) REWINDING (VSR) mode

The mechanism position to rewind the tape (fast rewinding playback). The S and T pole base is pressed, the pinch roller is pressed to the capstan shaft, the brake shifter VSR brake section engages with the Tu reel base gear.

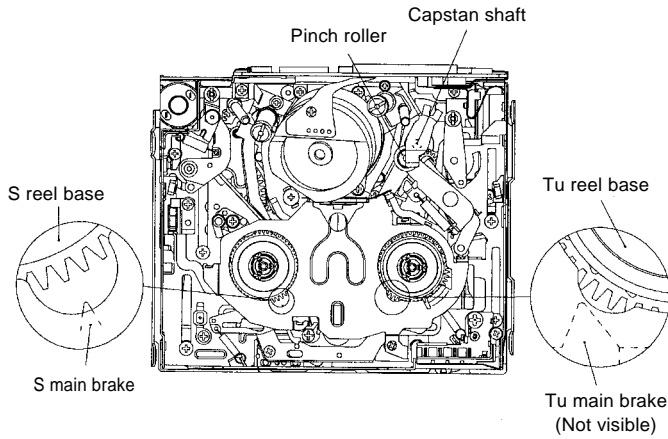


REWINDING (VSR) mode diagram

(5) **PLAYBACK (RECORD, FF, VSF) mode**

The mechanism position for playback, record, FF and fast feed playback.

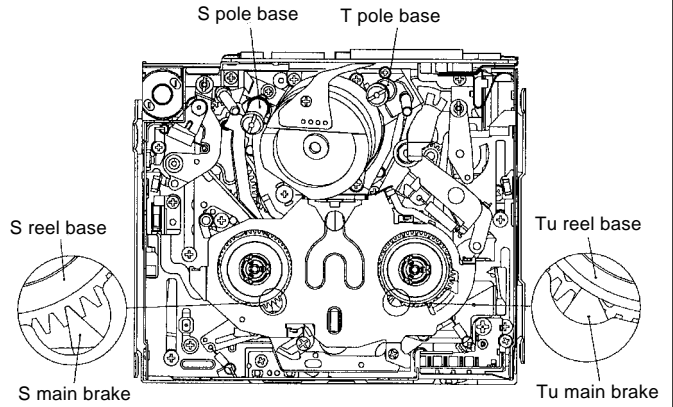
The pinch roller is pressed to the capstan shaft, and the S/Tu main brake is separated from the S/Tu reel base.



**PLAYBACK mode diagram
(RECORD, FF, VSF)**

(6) **STOP mode**

The system is in the STOP (Rec Lock in CAMERA mode) position; the S and the T pole bases are snap-fitted to the drum base, the S brake is in contact with the S reel base, and the Tu brake is in contact with the Tu reel base.



STOP mode diagram

8-2. Cassette controller assembly

<Removing>

(1) Apply DC3V to the loading motor to enter the standby mode.

Press the lock lever in the arrow direction to raise the cassette controller. (See Fig. 1; A or B direction.)

(2) Turn the damper lever in the arrow direction to release the engagement of the damper bar. (See Fig. 2.)

(3) Remove two screws (E), and remove the down guide (D) in the arrow (F) direction. (See Figs. 3 and 4.)

Take care that the slide chassis is provided with the down guide positioning (G) or (H).

(4) Slide the cassette controller in the arrow (I) direction, remove the outer link shaft (both sides) toward the inside of the mechanism, and turn the cassette controller in the arrow (J) direction. (See Fig. 5.)

(5) Slide the cassette controller in the arrow (K) direction. (See Fig. 6.)

<Installing>

(1) Apply DC3V to the loading motor to enter the standby mode.

(2) For assembly, reverse the removing procedure (5) thru (2).

Tightening torque of two screws (E): $40 \pm 4 \text{mN.m}$

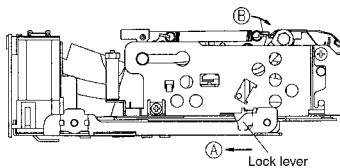


Fig. 1.

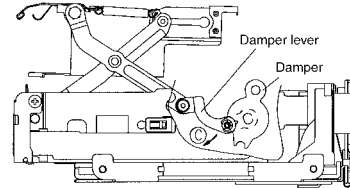


Fig. 2.

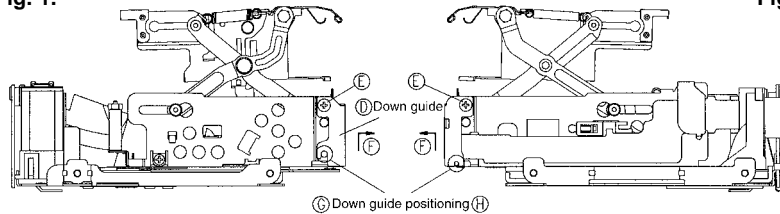


Fig. 3.

Fig. 4.

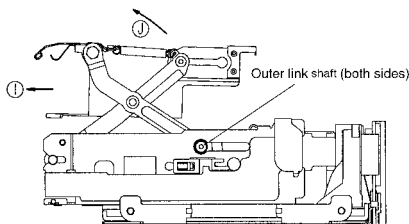


Fig. 5.

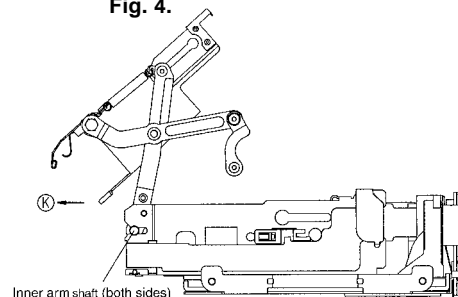


Fig. 6.

8-3. How to operate with the circuit board without the cassette controller assembly.

In this method, if the procedure is followed incorrectly there is danger of damaging the mechanism and the tape, so except in special cases, such as when measuring the VSR torque, do not perform this procedure. Normally operate this unit with the cassette controller assembly attached.

Be sure to follow each caution mentioned.

- (1) Apply DC3 ~ 4V to the loading motor to enter the standby mode.
- (2) Securely press the movable piece (L) of the down SW with cellophane tape or similar to turn on SW. (Take care that the movable piece turns only in the shown arrow direction.)

Note: To enter REC mode, press the pin of the recognition switch (M).
(Unnecessary in other modes.)

- (3) Set the test mode (T-01) with the adjustment remote controller without putting the tape, and the mechanical operation will become possible with the mode key.
- (4) For ejection, remove the tape of (2).

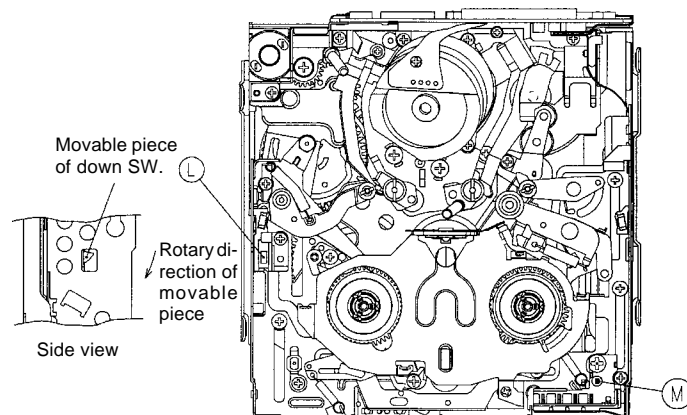


Fig. 7. LOADING START mode

8-4. Phase matching

Referring to Figs. 8 and 9, align the phase for the following parts.

- (1) Eject lever (2) Eject control lever (3) Mode SW (4) Main cam (5) Sub cam

Note: Before disassembly, sufficiently check the marker position.

Note: When installing the joining gears, verify that the phase matching holes of the main cam and subcam are aligned to the hole of the chassis.

Note: After the phase is aligned, turn the mode SW with hand, and verify that it turns nearly one turn.
(After verification, return it to the original position.)

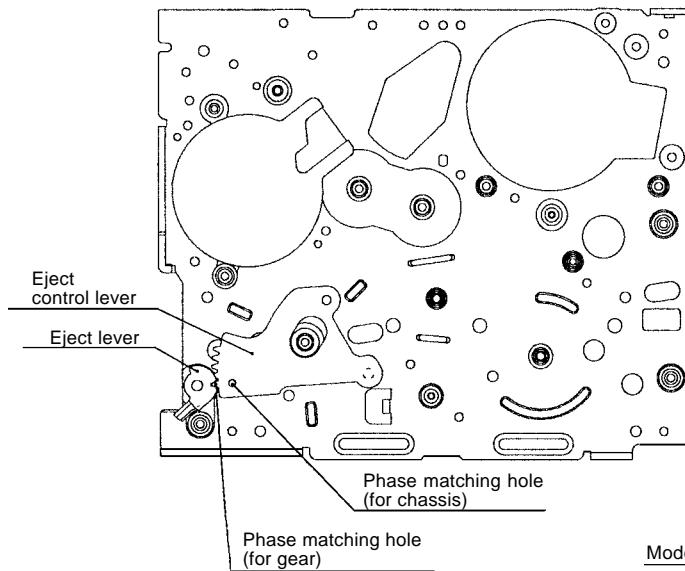


Fig. 8

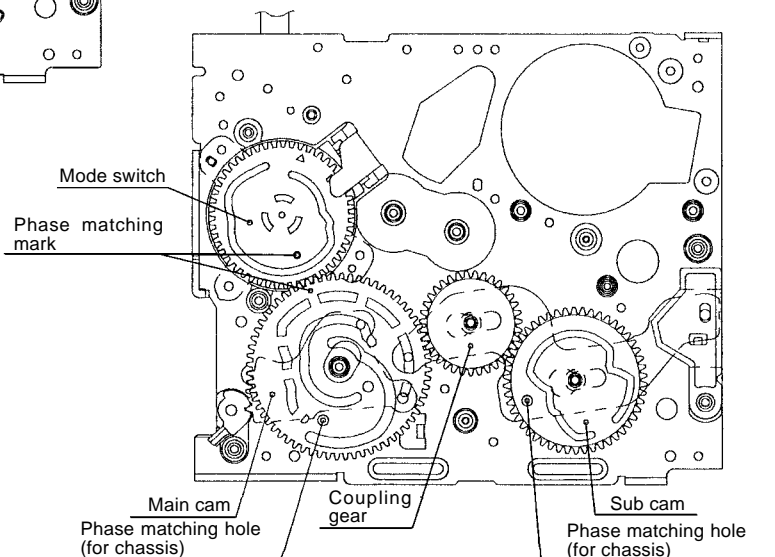


Fig. 9

8-5. Reassembly

8-5-1. Reassembly in side of the main chassis.

Note) Numbers before part names are given as a guide to the order of assembly.

As for greasing/oiling/cleaning places refer to the attached drawings (Grease/Oil application side of the main chassis).

1.

Item	Tightening torque	Quantity
A S Tight · M1.4 x L3	70mN·m	3

2.

Item	Tightening torque	Quantity
B CWø1.2-ø3.0-t0.25		1

3.

Item	Tightening torque	Quantity
C Special screw · M1.4 x L1.6	40mN·m	2
D Special screw with step · M1.4 x L6.25	70mN·m	1

4.

Item	Tightening torque	Quantity
C Special screw · M1.4 x L1.6	40mN·m	1
E S Tight · M1.4 x L4	70mN·m	2
F S Tight · M1.4 x L2	70mN·m	1

5.

Item	Tightening torque	Quantity
G Special head screw · M1.4 x L1.5	40mN·m	2

6.

Item	Tightening torque	Quantity
H CWø0.7-ø2.2-t0.25		2
I Special screw · M1.2 x L1.8	5mN·m (Tentative tightening)	2

8-5-2. Reassembly in side of the Slide chassis.

Note) Numbers before part names are given as a guide to the order of assembly.

As for greasing/oiling/cleaning places refer to the attached drawings (Grease/Oil application side of the slide chassis)

1.

Item	Tightening torque	Quantity
F S Tight · M1.4 x L2	40mN·m	1
H CWø0.7-ø2.2-t0.25	—	1
J Special screw · M1.2 x L1 Note 1: Use the No. 00 bit.	40mN·m	1
K Special head screw · M1.4 x L2	40mN·m	1

2.

Note 1: Take care for scratch and hit mark on (381), (382), (383), (384) and (455). Handle the tension band with care against deformation.
Note 2: After lightly tightening (428) arm area against deformation, apply screw-lock on the tip of the shaft.

Item	Tightening torque	Quantity
B CWø1.2-ø3.0-t0.25	—	1
F S Tight · M1.4 x L2	40mN·m	1
H CWø0.7-ø2.2-t0.25	—	2
K Special head screw · M1.4 x L2	40mN·m	1
L Special screw with step · M1.4 x L1	40mN·m	1
M Type 2 minuteness · M1.4 x L1	40mN·m	1
N CWø0.7-ø1.8-t0.1	—	2
O Wø1.2-ø2.5-t0.3	—	2

8-5-3. Main chassis assembly and slide chassis assembly assembling method

- (1) Enter the coupling mode. (In this position, the cam groove of the T arm operation lever in the figure is parallel to the side of the main chassis, and the poll base is slightly moved.)
- (2) Insert the slide chassis side operation pins (① tension arm, ② Tu guide arm, ③ pinch lever) in the position shown below at the main chassis side, move the slide chassis in the arrow direction, using ④ to ⑥ as guides, insert the loading lever operation pin into the groove of slide chassis, and install with the 4 screws.

1.

Item	Tightening torque	Quantity
C Special screw · M1.4 x L1.6	40mN·m	4

2.

Item	Tightening torque	Quantity
A S Tight · M1.4 x L3	40mN·m	1
N CWø0.7-ø1.8-t0.1		1
P Type 1 minuteness M1.4 x L1	40mN·m	1

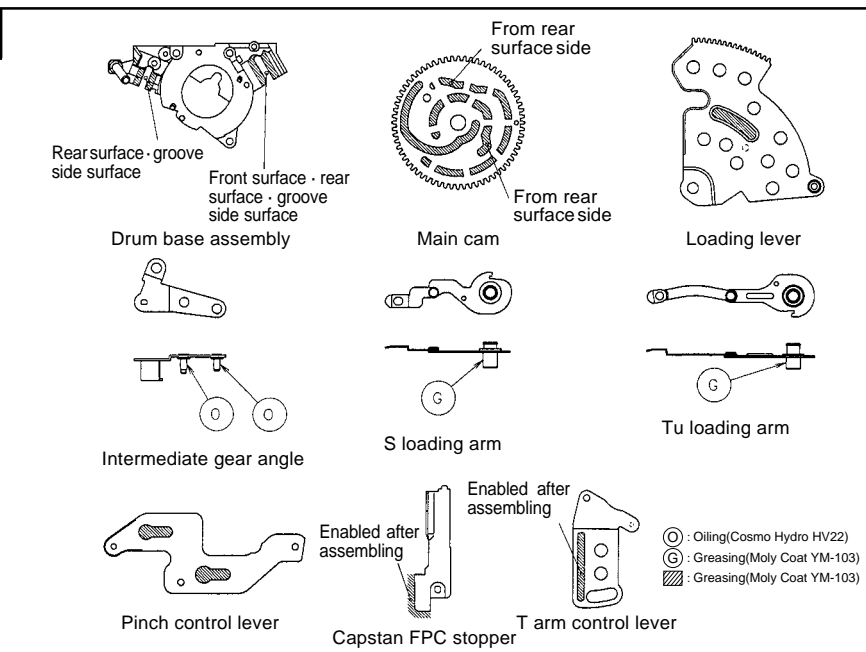
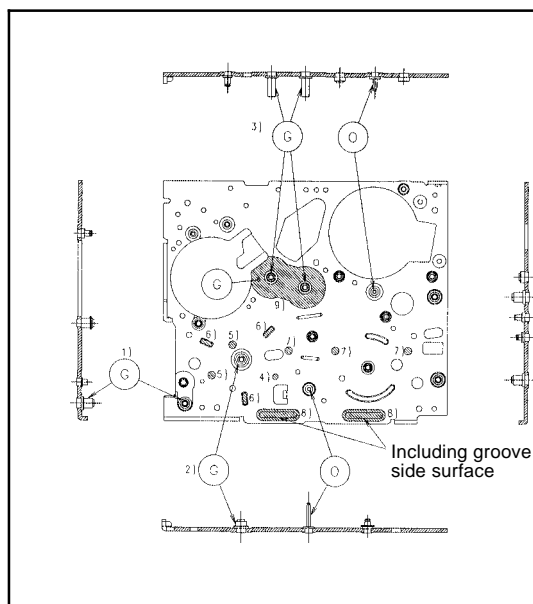
3.

Item	Tightening torque	Quantity
A S Tight · M1.4 x L3	70mN·m	3
F S Tight · M1.4 x L2	70mN·m	5

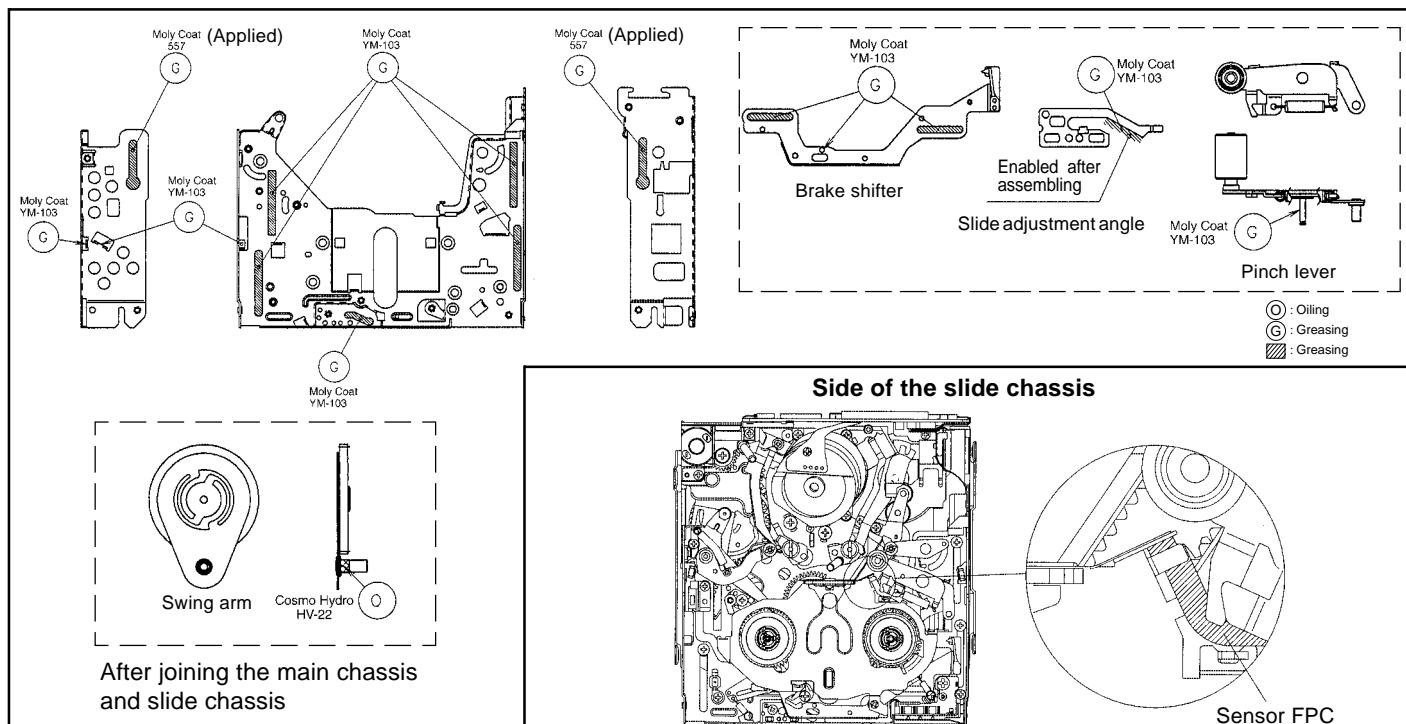
4.

Item	Tightening torque	Quantity
Q Type 2 minuteness M1.4 x L2	40mN·m	3

GREASE/OIL APPLICATION



Side of the main chassis



Side of the slide chassis

8-6. Removing the cassette

- (1) Apply DC3V to the loading motor unload slightly.
- (2) After the tape is slackened, turn the rotor (lower side of mechanism) of capstan motor to tighten the tape. (Arrow direction, Fig. 1)
- (3) Repeat the operations (1) and (2). After the pole base has been completely unloaded, ascertain that the tape is not loose.
- (4) Finally apply again DC3V to the loading motor, so that the cassette controller ejects.
- (5) Take out the cassette.

Note) DC3V is applied to the loading motor as shown Fig 1. Then, the mechanism moves in the unloading direction.

Sensor FPC wiring

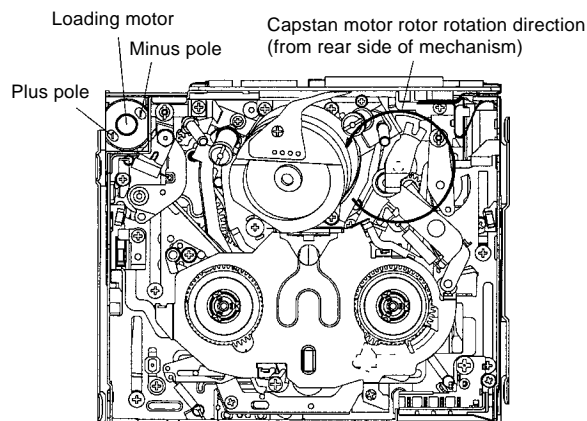


Fig. 1

9. ADJUSTING THE ELECTRICAL CIRCUITS

Before starting the electric circuit adjustment

- The adjustment methods described herein are used, in most cases, when the expendable mechanical parts, including the video head, have been replaced, at which time the electrical circuits need to be readjusted. Before adjusting the electrical circuits, make sure that the mechanism works properly (i.e., the mechanism is properly adjusted). In case of the occurrence of any problem to the electrical circuits, be sure to use the specified measuring instruments to locate the area to which the problem is occurring, and then take the necessary action, including repair, replacement or adjustment, exactly as instructed in the electrical adjustment methods that will follow.

Do not attempt to make adjustments without using the proper measuring instruments.

- This machine is configured so that the electrical circuits inside its PWB unit are composed, for the most part, of high-density, small surface-mounted component parts for downsized machine body.

To perform repair service or parts replacement, do so using a soldering iron, but in as short a time as possible; this is because surface-mounted component parts are generally so small in size and susceptible to heat, as compared with the large discrete parts used in TV sets, desk-top video decks, etc., that attempting to heat their electrodes for a longer time than is necessary with a soldering iron may result in their becoming defective.

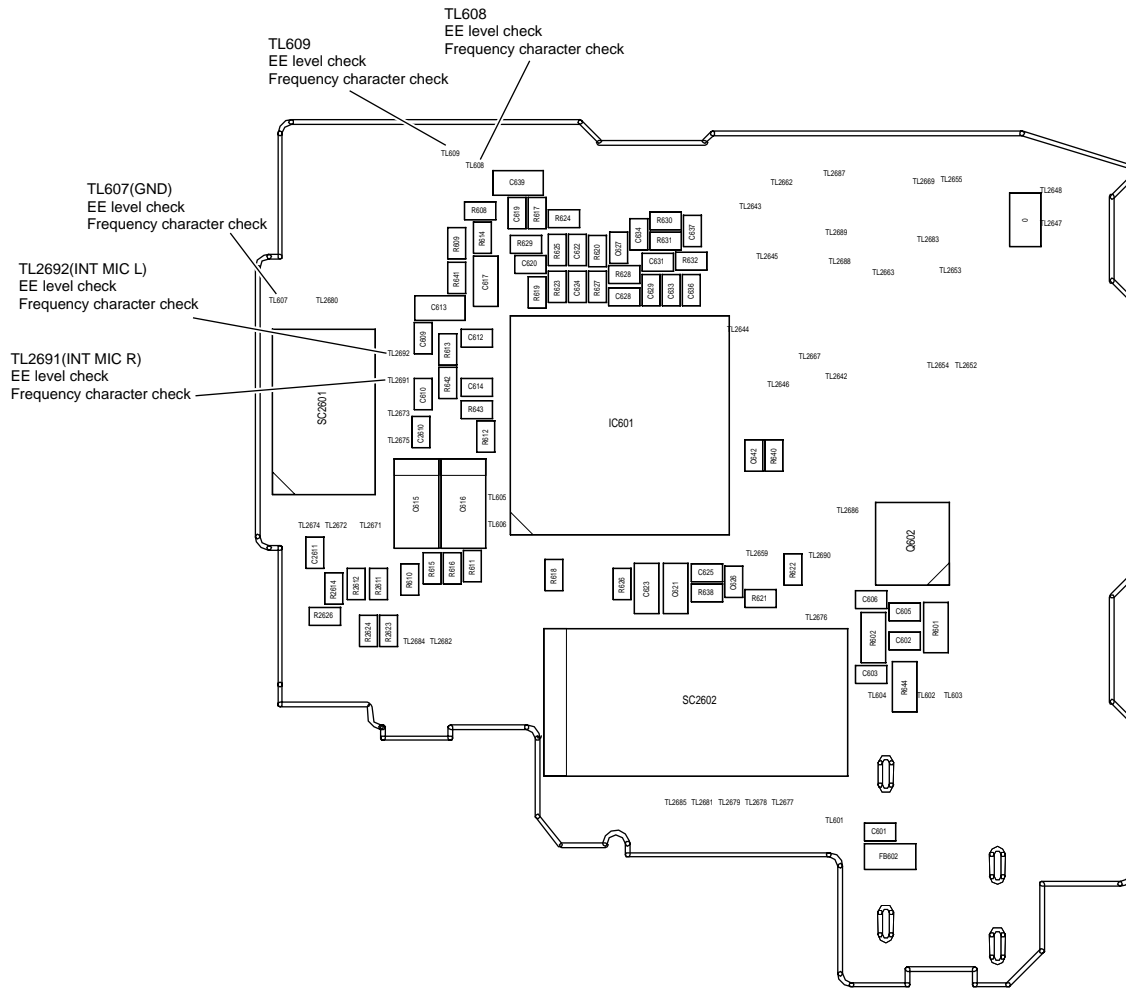
This applies particularly when replacing the laminated chip capacitors.

For this purpose, ceramic soldering irons with a temperature regulator are recommended (iron tip temperature 250°C and soldering time 5 seconds or shorter).

VL-NZ50S/H/E/W/NZ80H/NZ100S/H/E Specifications of service jigs

No.	Connection section	Connector REF. No.	No. of pins	New or Continuation	Part cord	Price code
1	H/A_PWB-H/A_FPC	P306-	80B-B		QCNW-1832TAZZ	BV
2	H/A_FPC-Main	-SC3301	80B-B		CPWBH2876TA01 Product unit use	AS
3	Main-Battery Terminal	SC900←	20B-B		QTANZ0152TAZZ Product unit use	AN
4	Main-LCD Panel	SC2801-LCD Panel	24		QCNW-1382TAZZ or QCNW-1274TAZZ	BD AZ
5	Main-Inverter PWB	SC2802-SC9801	9	N	QPWBHB196WJZZ	AD
6	Inverter-Lamp Unit	SC9802-LAMP	4		Direct connection : High tension caution	—
7	Main-Operation PWB	SC701-SC2001	6		QPWBHB197WJZZ Product unit use	AD
8	Main-AIO PWB	SC1202-SC2604	33		CPWBHB195WJ01(NZ80/NZ100) CPWBHB247WJ01(NZ50) Product unit use	AU AR
9	Main-Card PWB	SC1204-SC1502	27		CPWBHB195WJ01(NZ80/NZ100) CPWBHB247WJ01(NZ50) Product unit use	AU AR
10	Main-Cam Head	SC1201-SC53	33		CPWBHB195WJ01(NZ80/NZ100) CPWBHB247WJ01(NZ50) Product unit use	AU AR
12	Power/Snap SW-Mic Unit	SC2701←	4		RMiCC0108TAZZ Product unit use	AP
13	AIO-Power/Snap SW Unit	SC2601←	10		QSW-ZA004WJZZ Product unit use	AW
14	AIO-Zoom Ope SW Unit	SC2602←	11		QSW-ZA003WJZZ Product unit use	AY
15	AIO-Speaker	P601←	2		VSP0020P-918N Product unit use	AL
16	Cam Head-Lens	SC551←	24		Direct connection	—
17	Cam Head-CCD PWB	SC101-SC21	33		QPWBHB194WJZZ Product unit use	AD
18	Cam Head-Turn SW Unit	P51←	2		QSW-Z0376TAZZ Product unit use	AF
19	Cam Head-Main	P52-P1203	12		QCNW-2060TAZZ Product unit use	AD
20	TP Jig for Envelope confirmation	SC3302←	10PB-B		RUNTKA003WJZZ	BF
21	Main-DC Terminal_PWB	P901-P2900	6		QCNW-A392WJZZ	AE

(Wiring board diagram: AIO Side B)



[Making adjustments]

Adjusting the servo system controller and related parts

1. Setting the system codes

Replacement of IC705 E²PROM requires the following data to be set in this order.

[Procedure]

Set the unit to the VCR mode and set the data for each address.

Code	1. Model code		2. Destination code			3. Specification code			4. Menu selection code		5. Software switching code		6. Calender switching		
Address		01	09		02	0A		03	0B	04	0C	05	0D	07	0F
Data	NZ50S	00	FF	NZ50S	0A	F5	NZ50S	B7	48	00	FF	00	FF	02	FD
	NZ50H	00	FF	NZ50H	0D	F2	NZ50H	BF	40						
	NZ50E/W	00	FF	NZ50E/W	0B	F4	NZ50E/W	3F	C0						
	NZ80H	03	FC	NZ80H	0D	F2	NZ80H	9F	60						
	NZ100S	04	FB	NZ100S	0A	F5	NZ100S	15	EA						
	NZ100H	04	FB	NZ100H	0D	F2	NZ100H	1D	E2						
	NZ100E	04	FB	NZ100E	0B	F4	NZ100E	1D	E2						

When replacing the IC705 E²PROM, first make the following settings and then start the adjustments.

(1) Electromagnetic conversion

Address	27	28	2B	*105	25	26
Data	40	90	90	80	40	90

* The address uses only when replacing the IC302.

• Adjustment with automatic machine

Mode	VCR ADJ mode
Procedure	<ol style="list-style-type: none"> Using the 12 command, set the VCR adjustment mode. Using the 20 command, give the E²PROM write permission. Set the system code with the 22 command for each type. Using the command, set write inhibition. Using the command, cancel the adjustment mode.
Examples	• During E ² PROM (IC705) replacement.

• Manual adjustment

Mode	VCR ADJ mode
Procedure	<ol style="list-style-type: none"> Set the CAM/OFF/VCR selection switch to VCR. Press "CONTINUE" → "VCR adjustment" on the remote controller to set the VCR adjustment mode. (At this time an indication "VCR ADJ" appears at the left lower side.) Enter a setting corresponding to the address. <Setting method> Adjust the address by moving up and down the blinking numeral with the FF and REW key, and fix the address by pressing the PB key. Adjust to the setting by moving up and down the blinking numeral with the FF or REW key, and set data by pressing the PB key. Press the STOP key to set the address set state. Repeat the operations 3), 4) and 5) as much as input addresses. After completion of input of all items hold down the "CONTINUE" key to cancel the VCR adjustment mode. Set the CAM/OFF/VCR selection switch to OFF.
Examples	• During E ² PROM (IC705) replacement.

2. HSWP adjustment

Mode	VCR ADJ mode
Procedure	<ol style="list-style-type: none"> Play back the alignment tape in the video mode. Press the "CONTINUE" and "HSWP ADJ" keys on the adjustment remote control in this order. → This executes the HSWP adjustment. When the adjustment is successful, the LCD lights up [OK] and the cassette is automatically ejected. If not properly adjusted, the LCD lights up [NG].
Examples	• During mechanism replacement. • During E ² PROM replacement (IC302 inside the head amplifier circuit board).

3. SHUT OFF adjustment

Mode	VCR ADJ mode
Procedure	<ol style="list-style-type: none"> 1) Load a recordable tape, and set the camera mode. (Set TL911 to GND or SW901 to ON.) 2) Press the "CONTINUE" and then the "TEST SEL" on the remote control for adjustment to enter the TEST mode (T-01 blinks). 3) Select T-03 with the FF or REW key and then press the PB key. 4) Observing the power voltage from TL2905(-), set it so that TL904(+) obtains $5.95V \pm 50mV$. 5) Press the MENU button on the main unit. Turn off the power and the adjustment is completed.
Examples	• During microcomputer (IC701) , REGULATOR (IC704) or E ² PROM (IC705) replacement.

ADJUSTING THE ELECTROMAGNETIC CONVERSION CIRCUIT SYSTEM

1. PLL VCO adjustment

Mode	VCR ADJ mode
Procedure	<ol style="list-style-type: none"> 1) Playback the alignment tape (or a self-recorded tape). 2) Call the adjustment mode (V-ADJ). 3) Set the address "2A" and call the data. 4) Set the called data with the FF/REW key to the point where the playback screen appears. (At this time, the screen full of block noise is OK.)
Examples	• During E ² PROM replacement. • During circuit board (Main) replacement.

2. Phase and equalizer adjustment → (Performed in the VCR mode)

Mode	VCR ADJ mode													
Procedure	<ol style="list-style-type: none"> 1) Load a self-recorded tape into the deck. 2) After playback for 3 minutes, select the test mode 0F using the remote control for adjustment to start the automatic adjustment. (The following sequence is automatically performed.) <div style="text-align: center;"> <pre> graph LR A[The built-in VI/O colour bar is recorded.] --> B[VS REW] B --> C[PB] C --> D[Phase and equalizer are adjusted automatically.] D --> E[Judgment] E --> F[OK: Blue LCD comes on.] E --> G[NG: Red LCD comes on.] F --> H[Tape is EJECT.] </pre> </div> <ol style="list-style-type: none"> 3) ON/OFF does a power source. 4) Error rate check Select and fix the TEST MODE 0B on the adjustment remote control. 5) Manual adjustment method (video adjustment mode) <p>* Perform this adjustment with the self-recording/playback in the LP mode. For phase, vary the data for the address 26 and 2B, and for equalizer, vary the data for the address 25 and 27, to set the error rate is made as small as possible.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Phase</th> <th>Equalizer</th> </tr> </thead> <tbody> <tr> <td>H ch side</td> <td>2B</td> <td>27</td> </tr> <tr> <td>L ch side</td> <td>26</td> <td>25</td> </tr> </tbody> </table> <div style="text-align: center; margin-top: 10px;"> </div> <table border="1" style="margin-left: auto; margin-right: auto; margin-top: 10px;"> <tr> <td>Synchronization error</td> <td>20 or less</td> </tr> <tr> <td>Error rate</td> <td>200 or less (SP Mode) 330 or less (LP Mode)</td> </tr> </table>		Phase	Equalizer	H ch side	2B	27	L ch side	26	25	Synchronization error	20 or less	Error rate	200 or less (SP Mode) 330 or less (LP Mode)
	Phase	Equalizer												
H ch side	2B	27												
L ch side	26	25												
Synchronization error	20 or less													
Error rate	200 or less (SP Mode) 330 or less (LP Mode)													
Examples	• During mechanism replacement. • During circuit board (Main) replacement. • During E ² PROM replacement.													

ADJUSTING THE VIDEO I/O CIRCUIT SYSTEM

(Wiring board diagram: Main Side A)



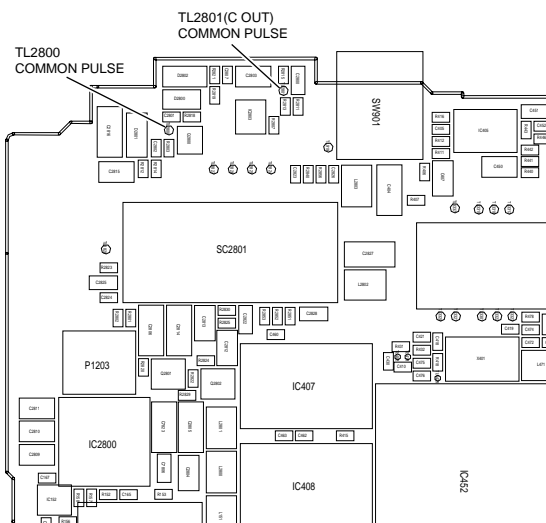
1. PCO D/A-Y adjustment

Test point	TL1479 (connected to oscilloscope)	Address	VCR ADJ 566/567
Mode	VCR STOP mode		
Procedure	<ol style="list-style-type: none"> 1) Connect the AVS cable and then connect it to the monitor (TO). 2) Call the adjustment mode (V-ADJ). 3) Set the address to "566", and call the date. (100% white signal is output.) 4) Vary the data with the FF and REW keys to set the signal appearing at TL1479 to $1.0V_{p-p} \pm 0.05V_{p-p}$. 5) Write a value subtracting -6h from the adjustment data of the address 566h in the address 567h. 		
Examples	<ul style="list-style-type: none"> • During E²PROM(IC705) replacement. • During IC4401 replacement. • During IC1401 replacement. 		

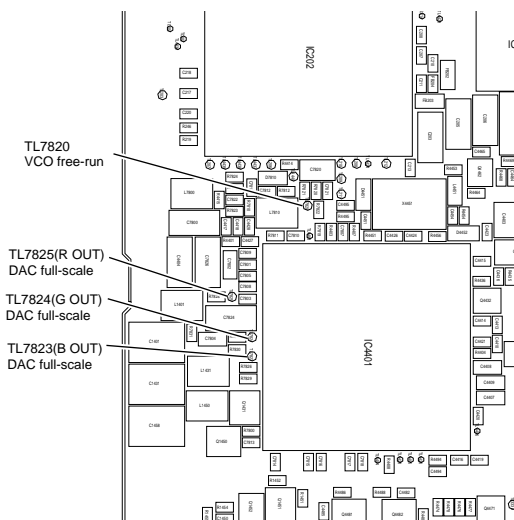
ADJUSTING THE LCD CIRCUIT

* To make this adjustment, set the backlight switch to the "NORMAL" position.

(Wiring board diagram: Main Side A)



(Wiring board diagram: Main Side B)



Adjustment procedure and connecting same as the VCR section.

1. VCO free-run adjustment

Test point	TL7820	Address	VCR ADJ 32
Mode	VCR AV input		
Procedure	1) Set the data of the addresses 523/524/525/526 to A9/90/80/80, respectively. (White 100%) 2) Connect the digital voltmeter to TL7820, and adjust DC voltage value to the specified adjustment value with VCR ADJ 32. 3) Return the data of the addresses 523/524/525/526 to the initial values. (Initial values: A1/10/80/80)		
Adjustment rating	2.00 ± 0.1V		
Examples	• During E ² PROM (IC705) replacement. • During VIO ENG (IC4401) replacement.		


2. DAC full-scale adjustment

Test point	TL7825(R OUT), TL7824(G OUT), TL7823(B OUT)		
Address	VCR ADJ 5E0(R), VCR ADJ 5DF(G), VCR ADJ 5DE(B)		
Mode	VCR AV input		
Procedure	1) Set the VCR ADJ 585/59A/5D0 to 00/77/00. (At this time, LCD can not be displayed.) 2) With the VCR ADJ 5E0, adjust the output voltage of TL7825 and the DC voltage value of the digital voltmeter to the specified adjustment values. 3) Similarly with the VCR ADJ 5DF/5DE, adjust the output voltage of TL7824/7823 and the DC voltage value of the digital voltmeter to the specified adjustment values. (Same as Item (2)) 4) Return the VCR ADJ 585/59A/5D0 to the initial value. (Initial values: C5/7F/28)		
Adjustment rating	0.78V ± 10mV		
Examples	• During E ² PROM (IC705) replacement. • During VIO ENG (IC4401) replacement.		

3. COMMON PULSE adjustment

Test point	TL2801(C OUT)	Address	VCR ADJ 29(C)
Mode	VCR AV input		
Procedure	1) Connect TL2800 to GND. 2) With VCR ADJ 29, adjust the output voltage of TL2801 and the DC voltage value of the digital voltmeter to the specified adjustment values.		
Adjustment rating	6.95V ± 50mV		
Examples	• During E ² PROM (IC705) replacement.		

4. COM-BIAS adjustment

Test point	LCD panel display surface	Address	VCR ADJ 33
Mode	VCR AV input		
Procedure	1) Set the data of the address 582 to AF. 2) Set up the illuminance meter (TOPCON IM-3) on the LCD panel surface. (The outside light must not enter.) 3) Minimize the ripple of the output waveform of the illuminance meter. 4) Return the data of the address 582 to the initial value. (Initial value: 40)		
Adjustment rating	Minimum	 Response time : 0.6sec	
Remark	Make this adjustment after 5-minute or longer aging.		
Examples	<ul style="list-style-type: none"> • During LCD Panel replacement. • During IC705 replacement. 		

5. White Balance adjustment

Test point	LCD panel display surface	Address	VCR ADJ 586, VCR ADJ 588
Mode	VCR AV input		
Procedure	1) Set the data of the address 582 to AF. 2) Input the white 40% signal to the standard monitor, and adjust it to become equal to that of the screen. 3) Return the data of the address 582 to the initial value. (Initial value: 40)		
Adjustment rating	Standard monitor		
Remark	Make this adjustment after 5-minute or longer aging.		
Examples	<ul style="list-style-type: none"> • During LCD monitor replacement. LCD Panel • During IC4401, IC705 replacement. 		

DV INTERFACE (IEEE1394) ID SETTING

This unit has a DV interface function conforming to IEEE1394. Therefore, each individual ID number must be used for each unit. Since this ID is written on the E²PROM (IC302) on the head amp PWB, the ID must be newly written when replacing this IC or the head amp PWB.

Address	180, 17F, 17E	Mode	VCR
Adjustment rating	ID number obtained from the URL below		
Procedure	1) Refer to the ID code application below. 2) Set the data acquired in step 1) to the corresponding address in the VCR adjustment mode. * Download an ID number or write it on the main unit according to the notice from the AV Systems Group "Issue No. S8-001".		
Examples	• During E ² PROM (IC302: on the H/A unit) replacement. • During the H/A unit (RAMP-0035TAN4) replacement.		

■ ID code is acquired

1. Connect with the EUI48/64 ID code control system.

- (1) Start the Internet Explorer or Netscape Navigator.
- (2) Access the following address.

(URL: http://www.rcg.kami.sharp.co.jp/quics/e_index.html)

Select the "EUI48/64 ID code control system" from the "Service" item.

Note: If you want to establish a connection by directly inputting the URL, please input the following.

URL: http://www1.rcg.kami.sharp.co.jp:7000/adrs_agt/adrs_dba/ide00010.main

The login screen will appear.

EUI 48 / 64 ID code control system

Please enter user ID and password

User ID

Password

Usage precautions

1. Those who have acquired ID numbers must manage the acquired ID codes on their own responsibility. Their names and departments or section to which they belong are stored as history data in the memory.
2. JavaScript is used for display selection handling. Therefore, the system may not operate properly on some browsers. To operate the system, use any of the following browsers.
Internet Explorer 4.01SP1 or higher versions/Netscape Navigator 4.04 or higher versions
3. Do not click the back button displayed on the above browser screen. If you click it, the system may not operate properly.
4. If the search results are displayed at a personal computer terminal with the Japanese fonts not installed, the Japanese characters are not displayed correctly.

If you have any question, please contact to below
Reliability Control Group
E-mail : eui@cmn.hirano.sharp.co.jp

- (3) For the [User ID], input the [Password].
Click on [Login].

EUI 48 / 64 ID code control system

Please enter user ID and password

User ID

Password

Usage precautions

1. Those who have acquired ID numbers must manage the acquired ID codes on their own responsibility. Their names and departments or section to which they belong are stored as history data in the memory.
2. JavaScript is used for display selection handling. Therefore, the system may not operate properly on some browsers. To operate the system, use any of the following browsers.
Internet Explorer 4.01SP1 or higher versions/Netscape Navigator 4.04 or higher versions
3. Do not click the back button displayed on the above browser screen. If you click it, the system may not operate properly.
4. If the search results are displayed at a personal computer terminal with the Japanese fonts not installed, the Japanese characters are not displayed correctly.

If you have any question, please contact to below
Reliability Control Group
E-mail : eui@cmn.hirano.sharp.co.jp

- (4) Click on [EUI 64 (IEEE 1394)] from the [1. Application for acquisition of ID].

Click

EUI 48 / 64 ID code control system

Click the button.

1. Application for acquisition of ID

2. Inquiry/search

(5) Click on [Repair use].

EUI 64 (IEEE1394) Application for acquisition of ID

Click the button.

(6) Input the necessary information for the application.
For the indispensable input items, be sure to input them.
Select the [Group/company] and [Kind name] from the list.
Input the [Model name].
Input the [Serial number].
Input the [Site/department of repair].

EUI 64 (IEEE1394) Application for acquisition of ID / Repair use

Input the following items.

Input date	00-FEB-01	
User ID code	00 00 00	
Name	TaroYamada	Input of half-sized characters.
Group/company	Audio-Visual Systems Group	Select from the list.
Kind name	ViewCam with LCD	Select from the list.
Model name	VL-NZ○○○○	Input of half-sized characters. Compulsory input items. (Do not input "-" (hyphens)).
Serial number	○○○○○○○	Input of half-sized characters. Compulsory input items.
site/department of repair	SHARP	Input of half-sized characters. Compulsory input items.

(7) Click on [motion].
The confirmation screen will appear.

EUI 64 (IEEE1394) Application for acquisition of ID / Repair use

Input the following items.

Input date	00-FEB-01	
User ID code	00 00 00	
Name	TaroYamada	Input of half-sized characters.
Group/company	Audio-Visual Systems Group	Select from the list.
Kind name	ViewCam with LCD	Select from the list.
Model name	VL-NZ○○○○	Input of half-sized characters. Compulsory input items. (Do not input "-" (hyphens)).
Serial number	○○○○○○○	Input of half-sized characters. Compulsory input items.
site/department of repair	SHARP	Input of half-sized characters. Compulsory input items.

(8) Click on [Yes].

EUI 64 (IEEE1394) Application for acquisition of ID/Repair use

Input date	00-FEB-01
User ID code	00 00 00
Name	TaroYamada
Group/company	Audio-Visual Systems Group
Kind name	ViewCam with LCD
Model name	VL-NZ○○○○
serial number	○○○○○○○
site/department of repair	SHARP

EUI 64 (IEEE1394) Application for acquisition of ID/Repair use
 You will acquire an ID code based on the above information. Are you sure?

2. Print the application result.

(1) Print out the application result screen.

Control the application result as evidence.

To print it, select "Print (P)" from the "File (F)" in the menu bar or click on the print button in the tool bar.

(2) Click on [Menu] to complete the application.

If you create applications in succession, repeat steps (1)~(8).

To complete it, click on [End] in the menu screen.

MODEL ID SETTING

Address	VCR ADJ FD, FE, FF	Mode	VCR STOP mode
Procedure	1) Set the unit to the VCR adjustment mode with command 12. 2) Give E ² PROM write enable with command 20. 3) Assign a MODEL ID to each address.		
Examples	• During E ² PROM (IC705) replacement.		

Address	FDh	FEh	FFh	Model
Data	10	20	2C	NZ50S
			2D	NZ50H
			2E	NZ50E/W
			30	NZ80H
			28	NZ100S
			2A	NZ100E

9-2. Camera Section Adjustments

9-2-1. Camera section service

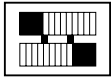


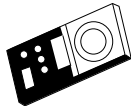
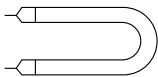
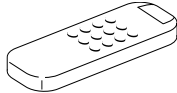
- (1) Camera adjustment is performed after the set has been completed.
- (2) Subjects, measuring instruments and jigs needed for camera section service and adjustments

<ul style="list-style-type: none"> • Gray scale chart • Color bar chart • Oscilloscope • Digital voltmeter • Halogen lamp: 2 pcs. • Vector scope 	<ul style="list-style-type: none"> • Frequency counter • Illumination meter • Color temperature meter • Color temperature conversion filter HOYA "LB-165" • Color video monitor 	<ul style="list-style-type: none"> • Video output cable • AC adapter • Extension cables • Remote control unit for servicing
--	--	---

9-2-2. List of camera jigs and tools

Configuration

<Note: The entries of list> 1. Name 2. Part No. 3. Code

			
<ol style="list-style-type: none"> 1. Gray scale chart (390 x 520 mm) 2. JiGCHART-1 3. CP 	<ol style="list-style-type: none"> 1. Color bar chart (240 x 320 mm) 2. JiGCHART-4 3. DA 	<ol style="list-style-type: none"> 1. Illumination meter (0 to 3000 lux) 2. JiGMETER-1 3. CT 	<ol style="list-style-type: none"> 1. Color temperature meter (1600 to 40000 degrees K) 2. JiGMETER-2 3. EL
<ol style="list-style-type: none"> 1. Color temperature conversion filter (3200 degrees K ⇒ 6800 degrees K) 2. JiGHOYA-LB165 3. BN 			
	<ol style="list-style-type: none"> 1. PC plate connector drawer 2. JiGTH-SS10 3. AW 	<ol style="list-style-type: none"> 1. Remote control until for servicing 2. RRMCG0033TASA 3. BT 	

9-2-3. Adjusting the camera unit

- (1) Preparations for adjustments and items to be checked
 - 1) Set up the light box so that the entire pattern is evenly lit. Set the color temperature to 3200°K.
 - 2) Use test patterns that are not dirty nor discoloured.
 - 3) If the electrical circuitry gets in trouble, be sure to pinpoint the trouble spot with a measuring instrument and repair or replace the defective part.
- (2) Remote control for servicing RRMCG0033TASA

To adjust the camera section of this machine, the remote control for servicing (RRMCG0033TASA) is used. The adjustment is made in such a manner that the remote control writes necessary data by way of the microprocessor to the specific addresses on the E²PROM (IC705).

- 1) To adjust the camera:

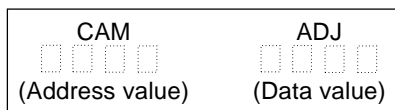
Press the "CONTINUE" key first and then the "CAM ADJ" key.

This will show



on the LCD screen, thereby having the camera unit ready for the adjustments.

- 2) Descriptions of the displays



(Indicates the camera adjustment mode.)

* The address values for this machine range from 0000 to 07FF.

* The data include byte data (the last two digits are effective) and 2-byte data (the last three digits are effective).

- 3) Descriptions of the remote control keys

"FF" key: Increases the address and data values.

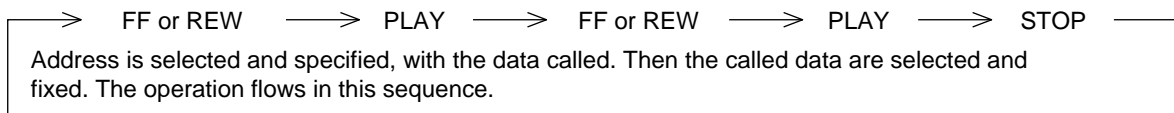
"REW" key: Decreases the address and data values.

"PLAY" key: Specifies addresses and calls the data.

This key also fixes the data values.

"STOP" key: Clears the data to enable the selection of address.

4) Operation flow



5) When the adjustment is complete:

Press the "CONTINUE" key to let the "CAM ADJ" display disappear from the screen.

Note: Before terminating the adjustments, make sure that the adjustment mode is neither the auto-focus function adjustment mode nor the camera signal system adjustment mode (these modes are mentioned later).

• Camera unit adjustment modes

The camera unit is adjusted in two types of modes: the auto-focus function adjustment mode and the camera signal system adjustment mode.

Note: E²PROM contains the adjustment item data as shown below. If it is changed, data rewriting and confirmation of latest data must be performed.

1) E²PROM(IC705) on the Main unit

Lens data and Signal system adjustment data

(3) Auto-focus function adjustment mode

• The camera unit uses a microprocessor-controlled auto-focus zoom lens.

The auto-focus circuit incorporated in this unit is designed to execute the image processing where the focusing action is done by taking advantage of the fact that the high-frequency components in the image signals increase as the focus intensifies. Moreover, to achieve high magnifying power with a small lens, the camera unit incorporates the inner focus system in which the focus is shifted by moving the master lens (rear lens) back and forth. This inner focus system is a full-range focus type by which the focus can be shifted from approximately 10 mm to the infinity. It should be noted, however, that since the closest subject distance at the telephoto end is fixed at 1.5 m, subjects in a closer range than 1.5 m at the telephoto end will be out of focus. For this reason, the unit is designed so the zoom control is automatically shifted to the wide angle side until the position is found where the subject can be focused on.

In the auto-focusing system of this unit, the following constitute the important factors:

- Master lens position detection data
- Iris position detection data
- Zoom lens position detection data

These detection data are handled and stored by the microprocessor, lens by lens, into the E²PROM.

Therefore, in the following cases, (3) auto-focus function adjustment is required:

- When the lens has been replaced
- When the CCD has been replaced
- When the E²PROM has been replaced
- When the CCD PWB and Camera PWB has been replaced

1) Shifting to the auto-focus function adjustment mode

Set the data for the address "0000" to "□□01".



This makes the screen fade temporarily in white and shifts to the auto-focus function adjustment mode.

* When this adjustment mode has been shifted to, make the adjustment according to (5) Camera unit adjustment procedure.

* In this adjustment mode, the lens can not be operated.

2) Shifting to the normal operation mode

Set the data for the address "0000" to "□□FF".



This makes the screen fade temporarily in white and shifts to the normal operation mode.



Press the "CONTINUE" key, and the "CAM ADJ" display goes out of the screen, enabling the normal operation.

(4) Camera signal system adjustment mode

In the camera signal system adjustment mode, the automatic white balance is disabled to allow for the adjustment of the camera unit. At this time, the white balance mode is fixed at the INDOORS mode and the focus mode is switched to the manual focus mode.

1) Shifting to the camera signal system adjustment mode

Set the data for the address "0000" to "0000".



This shifts the camera signal system adjustment mode.

* When this adjustment mode has been shifted to, make the adjustment according to (5) Camera unit adjustment procedure.

2) Shifting to the normal operation mode

Set the data for the address "0000" to "00FF".

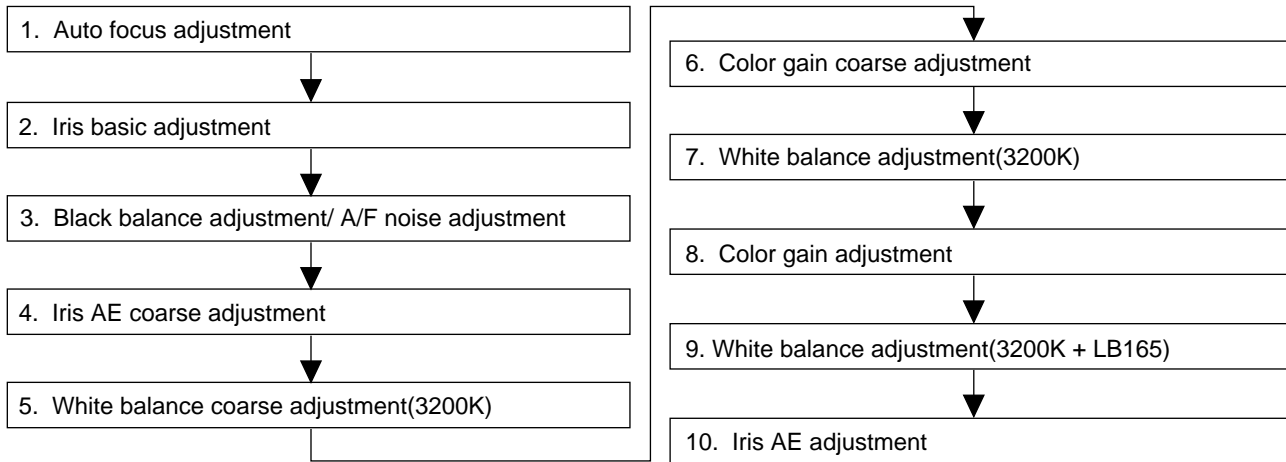


This shifts the mode to the normal operation mode.



Press the "CONTINUE" key, and the "CAM ADJ" display goes out of the screen, enabling the normal operation.

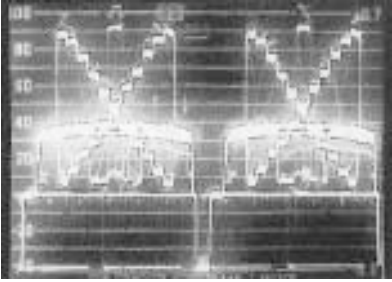


(5) Camera unit adjustment procedure




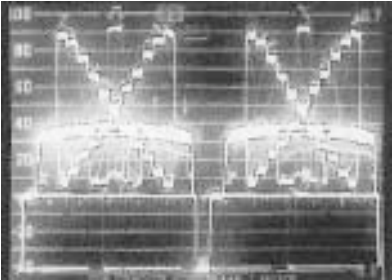


* The above 1. Auto-focus function adjustment in the auto-focus function adjustment mode, whereas the other adjustments are made in the camera signal system adjustment mode.

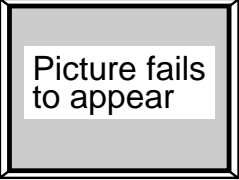
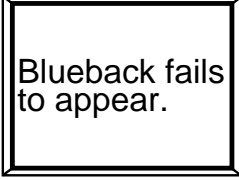

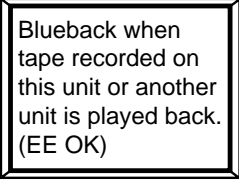
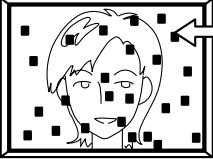
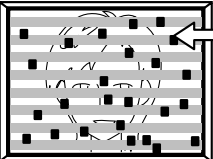

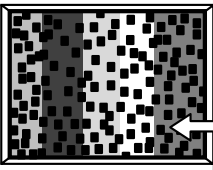
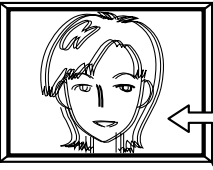
9-2-4. Adjustment procedures

Item	Adjustment method																
<p>(1) Auto-focus adjustment</p> <p>Set the unit to the auto-focus function adjustment mode and write data to the address "0000" one after another. This executed the adjustments automatically. The items to be adjusted are as listed below. Every time an adjustment is made properly, the data "FF" is written to the address. After each adjustment, make sure that the adjustment has been made properly, and then go on to the next adjustment item.</p> <table border="1" data-bbox="172 365 998 516"> <thead> <tr> <th>Address</th> <th>Data</th> <th>Adjustment item</th> </tr> </thead> <tbody> <tr> <td>0000</td> <td>0012</td> <td>WIDE end adjustment</td> </tr> <tr> <td></td> <td>0006</td> <td>WIDE end focus ∞ position adjustment</td> </tr> <tr> <td></td> <td>0008</td> <td>TELE end focus ∞ position adjustment</td> </tr> <tr> <td></td> <td>000D</td> <td>Zoom tracking adjustment</td> </tr> </tbody> </table> <p>Note 1: To adjustment of ∞ position is executed by actually picking up the image of subject. For this adjustment use the subject with clear profile. Especially, if the adjustment of TELE end focus ∞ position is made without picking up the image of remote subject, adjustment failure may occur. Adjustment of WIDE end focus ∞ position: 3 m or more Adjustment of TELE end focus ∞ position: 50 m or more</p> <p>Note 2: In case of ∞ position adjustment the field depth is important to ensure the adjustment accuracy. If the field depth is high, the focus becomes too stable, which may cause incorrect adjustment of ∞ position. Therefore the adjustment must be made with low field depth (with iris opened).</p> <p>The iris can be opened with the high-speed shutter.</p> <ol style="list-style-type: none"> 1. It returns to the normal operation mode. 2. In the normal operation mode, set the high-speed shutter mode until the iris is opened. (Refer to the operation manual.) 3. Display "CAM ADJ" with the remote control for service. 4. It shifts to the auto-focus adjustment mode. 5. Perform the ∞ position adjustment. 6. After completing the ∞ position adjustment, return the high-speed shutter mode to the normal mode. 	Address	Data	Adjustment item	0000	0012	WIDE end adjustment		0006	WIDE end focus ∞ position adjustment		0008	TELE end focus ∞ position adjustment		000D	Zoom tracking adjustment		
Address	Data	Adjustment item															
0000	0012	WIDE end adjustment															
	0006	WIDE end focus ∞ position adjustment															
	0008	TELE end focus ∞ position adjustment															
	000D	Zoom tracking adjustment															
<p>(2) Iris basic adjustment</p> <p>This is for adjusting the operating point of the hole element installed in the iris meter of the lens. The adjustment is automatically done by sequentially writing the data at the address "0001" in the camera signal system adjustment mode. The items to be adjusted are as listed below. Every time an adjustment is made properly, the data "00FF" is written to the address.</p> <table border="1" data-bbox="172 1268 998 1388"> <thead> <tr> <th>Address</th> <th>Data</th> <th>Adjustment item</th> </tr> </thead> <tbody> <tr> <td>0001</td> <td>0009</td> <td>Hall offset adjustment</td> </tr> <tr> <td></td> <td>000A</td> <td>Iris offset adjustment</td> </tr> <tr> <td></td> <td>000B</td> <td>Iris close adjustment</td> </tr> </tbody> </table> <p>In the camera signal system adjustment mode (write the data "□□ 00" to the address "0000"), set the unit to the adjustment mode.</p>	Address	Data	Adjustment item	0001	0009	Hall offset adjustment		000A	Iris offset adjustment		000B	Iris close adjustment					
Address	Data	Adjustment item															
0001	0009	Hall offset adjustment															
	000A	Iris offset adjustment															
	000B	Iris close adjustment															
<p>(3) Black balance adjustment/ A/F noise adjustment</p> <ol style="list-style-type: none"> 1) Prior to the adjustment, initialize the data for the addresses "0026", "0028", "002A", "002C", "002E", "0030". Write "FF FF" to all of these address. 2) Write the data "□□ 01" to the address "0001" This starts the adjustment automatically. When the adjustment is completed properly, the data "00FF" is written automatically. 																	

Item	Adjustment method																					
<p>(4) Iris AE coarse adjustment</p> <ul style="list-style-type: none"> Measurement terminal: S terminal luminance signal output (75 Ω termination) Address: "0002" AE_CVT Measuring instrument: Oscilloscope (horizontal sync) Object: Grey scale Data variation width: "0000" to "00FE" 	<p>(1) Video output is observed with the oscilloscope in the grey scale standard record state, the data of address "0002" is rewritten, and the luminance signal level is adjusted white to $760 \pm 10\text{mVp-p}$.</p>  <p style="text-align: right;">10IRE/div (71.4mV/div)</p>																					
<p>(5) White balance coarse adjustment (3200K)</p> <ul style="list-style-type: none"> Measurement terminal: EE output Address: "0090" INDOOR_W/B_R "0092" INDOOR_W/B_B Measuring instrument: Vector scope Object: Grey scale Data variation width: "0000" to "03FF" 	<p>(1) Indication on the vector scope is observed in the grey scale standard record state, data of address "0090" and "0092" are rewritten, and an adjustment is made so that the luminous dot is located in the position of burst ratio: R-Y $0 \pm 5\%$ B-Y $0 \pm 5\%$</p> 																					
<p>(6) Color gain coarse adjustment</p> <ul style="list-style-type: none"> Measurement terminal: EE output Address: "0338" CGIN RYG "033A" CGIN BYG "033B" CGIN YLYG "0335" CMAT RYG "0333" CMAT BYG "0334" CMAT YLYG Measuring instrument: Vector scope Object: Color bar chart Data variation width: "0000" to "00FF" 	<p>(1) The color bar chart is imaged, and the picture angle is adjusted so as to get white level 700 mV. Indication on the vector scope is observed, the data of address "0338", "033A", "033B", "0335", "0333" and "0334" are rewritten, and setting is made so that the red and blue and yellow luminous dots are located in the following positions. (The gain of vector scope must be set on 75% amplitude point on the B-Y axis.)</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: right;">Adjustment address</th> </tr> </thead> <tbody> <tr> <td>Red amplitude</td> <td>1.83 ± 0.1 time (burst ratio)</td> <td style="text-align: right;">: "0338"</td> </tr> <tr> <td>Blue amplitude</td> <td>1.50 ± 0.1 time (burst ratio)</td> <td style="text-align: right;">: "033A"</td> </tr> <tr> <td>Yellow amplitude</td> <td>1.26 ± 0.1 time (burst ratio)</td> <td style="text-align: right;">: "033B"</td> </tr> <tr> <td>Red phase</td> <td>$103^\circ \pm 2^\circ$</td> <td style="text-align: right;">: "0335"</td> </tr> <tr> <td>Blue phase</td> <td>$344^\circ \pm 2^\circ$</td> <td style="text-align: right;">: "0333"</td> </tr> <tr> <td>Yellow phase</td> <td>$152^\circ \pm 2^\circ$</td> <td style="text-align: right;">: "0334"</td> </tr> </tbody> </table>			Adjustment address	Red amplitude	1.83 ± 0.1 time (burst ratio)	: "0338"	Blue amplitude	1.50 ± 0.1 time (burst ratio)	: "033A"	Yellow amplitude	1.26 ± 0.1 time (burst ratio)	: "033B"	Red phase	$103^\circ \pm 2^\circ$: "0335"	Blue phase	$344^\circ \pm 2^\circ$: "0333"	Yellow phase	$152^\circ \pm 2^\circ$: "0334"
		Adjustment address																				
Red amplitude	1.83 ± 0.1 time (burst ratio)	: "0338"																				
Blue amplitude	1.50 ± 0.1 time (burst ratio)	: "033A"																				
Yellow amplitude	1.26 ± 0.1 time (burst ratio)	: "033B"																				
Red phase	$103^\circ \pm 2^\circ$: "0335"																				
Blue phase	$344^\circ \pm 2^\circ$: "0333"																				
Yellow phase	$152^\circ \pm 2^\circ$: "0334"																				

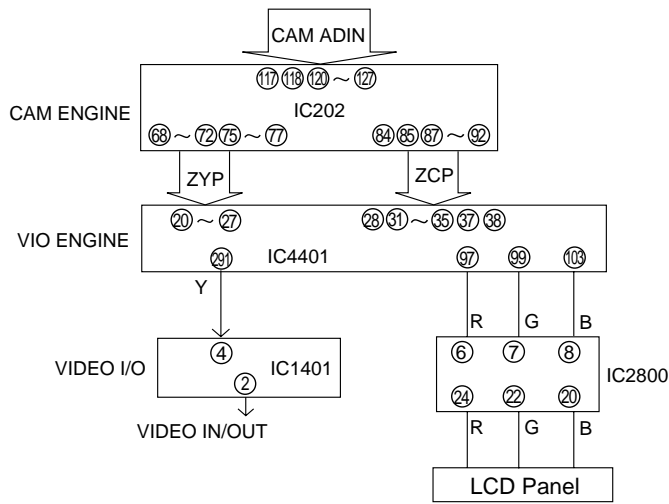
Item	Adjustment method														
<p>(7) White balance adjustment(3200K)</p> <ul style="list-style-type: none"> Measurement terminal: EE output Address: "0090" INDOOR_W/B R "0092" INDOOR_W/B R Measuring instrument: Vector scope Object: Grey scale Data variation width: "0000" to "03FF" 	<p>(1) White balance adjustment is performed repeatedly.</p> 														
<p>(8) Color gain adjustment</p> <ul style="list-style-type: none"> Measurement terminal: EE output Address: "0338" CGIN RYG "033A" CGIN BYG "033B" CGIN YLYG "0335" CMAT RYG "0333" CMAT BYG "0334" CMAT YLYG Measuring instrument: Vector scope Object: Waveform monitor color bar chart Data variation width: "0000" to "00FF" 	<p>(1) Color gain adjustment is performed repeatedly.</p>  <table border="0" data-bbox="678 840 1453 1039"> <tr> <td></td> <td style="text-align: right;">Adjustment address</td> </tr> <tr> <td>Red amplitude</td> <td>1.83 ± 0.05 time (burst ratio) : "0338"</td> </tr> <tr> <td>Blue amplitude</td> <td>1.50 ± 0.05 time (burst ratio) : "033A"</td> </tr> <tr> <td>Yellow amplitude</td> <td>1.26 ± 0.1 time (burst ratio) : "033B"</td> </tr> <tr> <td>Red phase</td> <td>103° ± 1° : "0335"</td> </tr> <tr> <td>Blue phase</td> <td>344° ± 2° : "0333"</td> </tr> <tr> <td>Yellow phase</td> <td>152° ± 2° : "0334"</td> </tr> </table>		Adjustment address	Red amplitude	1.83 ± 0.05 time (burst ratio) : "0338"	Blue amplitude	1.50 ± 0.05 time (burst ratio) : "033A"	Yellow amplitude	1.26 ± 0.1 time (burst ratio) : "033B"	Red phase	103° ± 1° : "0335"	Blue phase	344° ± 2° : "0333"	Yellow phase	152° ± 2° : "0334"
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Red phase	103° ± 1° : "0335"														
Blue phase	344° ± 2° : "0333"														
Yellow phase	152° ± 2° : "0334"														
<p>(9) White balance adjustment (3200K + LB165)</p> <ul style="list-style-type: none"> Measurement terminal: EE output Address: "0016" OUTDOOR R "0018" OURDOOR B Measuring instrument: Vector scope Object: Grey scale Data variation width: "0000" to "03FF" 	<p>(1) The color temperature conversion filter (LB165) is mounted in front of lens. (2) Indication of vector scope is observed in the grey scale standard record state, and an adjustment is made so that the luminous dots are located in the following positions:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>R-Y 0 ± 5% (burst ratio) B-Y 0 ± 5% (burst ratio)</p> </div> 														
<p>(10) Iris AE adjustment</p> <ul style="list-style-type: none"> Measurement terminal: S terminal luminance signal output (75 Ω termination) Address: "0002" AE_CVT Measuring instrument: Oscilloscope (horizontal sync) Object: Grey scale Data variation width: "0000" to "00FE" 	<p>(1) Set the unit to the normal operation mode (write the data "00FF" to the address "0000"). (2) Video output is observed with the oscilloscope in the grey scale standard record state, the data of address "0002" is rewritten, and the luminance signal level is adjusted white to 680 ± 10mVp-p.</p>  <p style="text-align: right;">10IRE/div (71.4mV/div)</p>														

10. USEFUL TIPS (PROBLEMS DIFFER FROM THOSE FOUND ON VHS OR 8MM DECKS BECAUSE THE SIGNALS ARE DIGITALLY PROCESSED.)

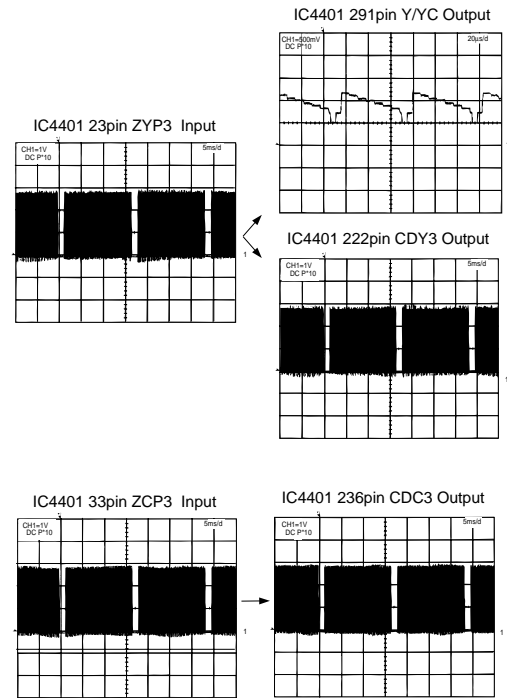
<p>Camera (EE mode)</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Picture fails to appear</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • CCD • Camera circuits (CDS, ADC, CAM ENGINE) • MECHA/SYSTEM MiCON (IC701) • VIDEO I/O (IC1401) • VIO ENGINE (IC4401) 	<p>VCR (EE mode)</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Blueback fails to appear.</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • MECHA/SYSTEM MiCON (IC701) • CAM ENGINE (IC202) • REC/PB ENGINE (IC452) 	<p>Camera (REC mode) VCR (PB mode)</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Picture fails to appear when tape recorded on this unit or another unit is played back. (EE OK)</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • CAM ENGINE (IC202) • REC/PB ENGINE (IC452)
<p>Camera (REC mode) VCR (PB mode)</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Blueback when tape recorded on this unit or another unit is played back. (EE OK)</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • EQ/PLL (IC3401) • Head amplifier (IC301) * Dirty or defective video head 	<p>Camera (REC mode) VCR (PB mode)</p> <div style="display: flex; align-items: center; justify-content: space-around;"> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Random block noise when tape recorded on this unit or another unit is played back.</p> </div> <p>or</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Noise bar (Green) + random block noise when tape recorded on this unit or another unit is played back.</p> </div> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • EQ/PLL (IC3401) • Head amplifier (IC301) * Dirty or defective video head 	
<p>VCR (PB mode) + color bar</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Lines appear on the color bar.</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • CAM ENGINE (IC202) 	<p>VCR (PB mode) + color bar</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>There is considerable random block noise.</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • Adjustment of the electromagnetic conversion circuit system. 	<p>Camera (EE mode)</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>The outline looks like a Moire pattern.</p> </div> <p>Major circuits to be checked</p> <ul style="list-style-type: none"> • Y data between CAM ENGINE (IC202) and VIO ENGINE (IC4401) is missing.

11. SIGNAL FLOW DIAGRAMS

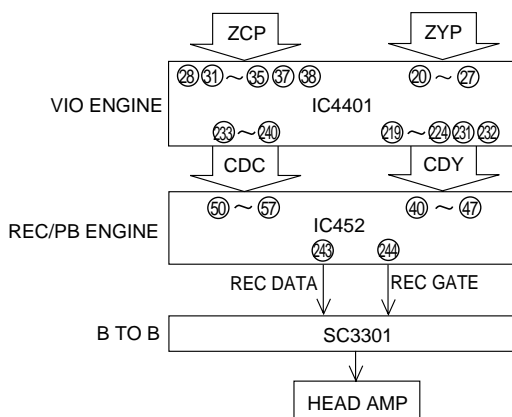
11-1. EE MODE FLOW (VIDEO)



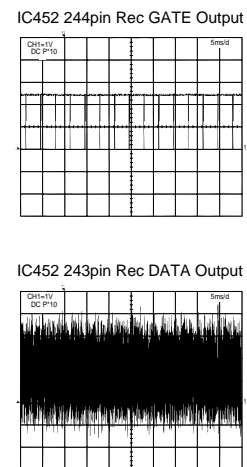
WAVEFORM DIAGRAM (DURING COLOR BAR RECORDING)



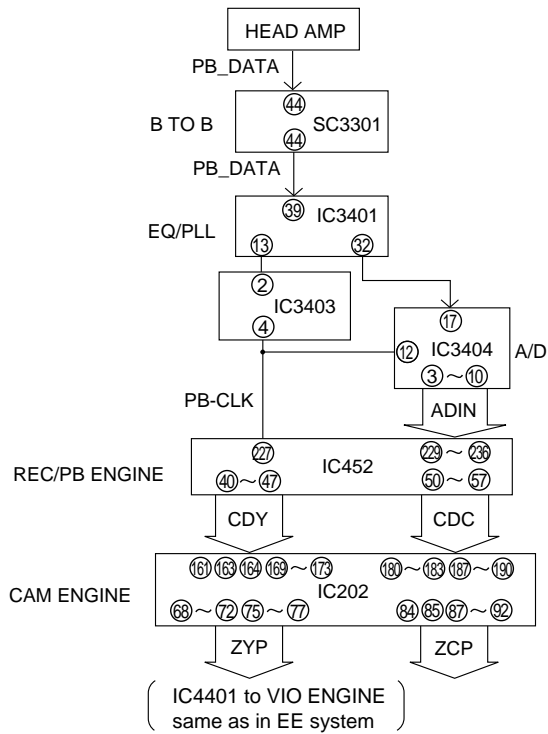
11-2. FLOW IN REC MODE (VIDEO)



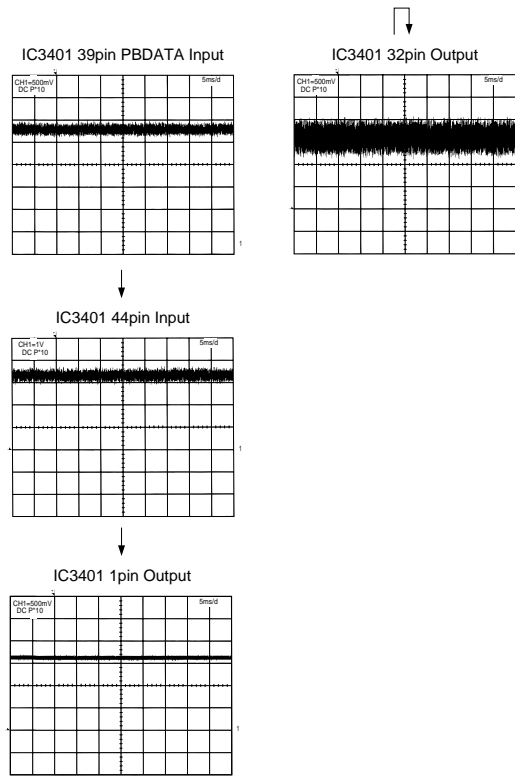
WAVEFORM DIAGRAM (DURING COLOR BAR RECORDING)



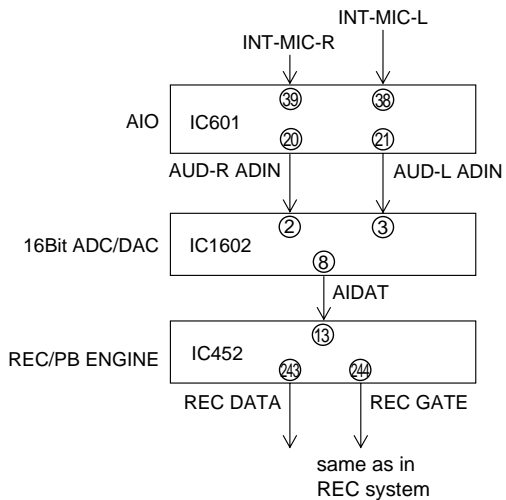
11-3. FLOW IN PB MODE (VIDEO)



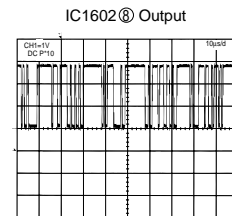
WAVEFORM DIAGRAM (DURING COLOR BAR PLAYBACK)



11-4. FLOW IN REC MODE (AUDIO)

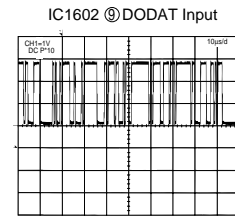
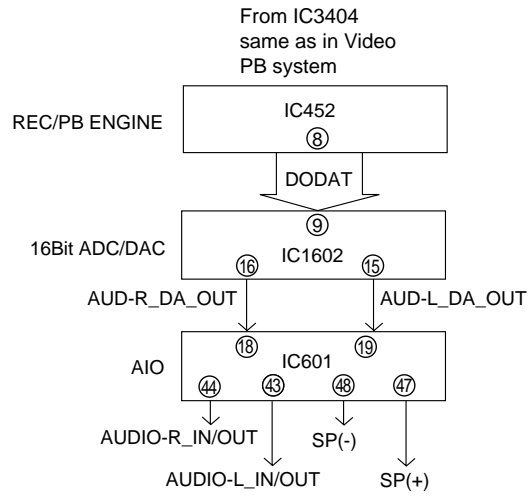


WAVEFORM DIAGRAM (1.6 kHz SINE WAVE)



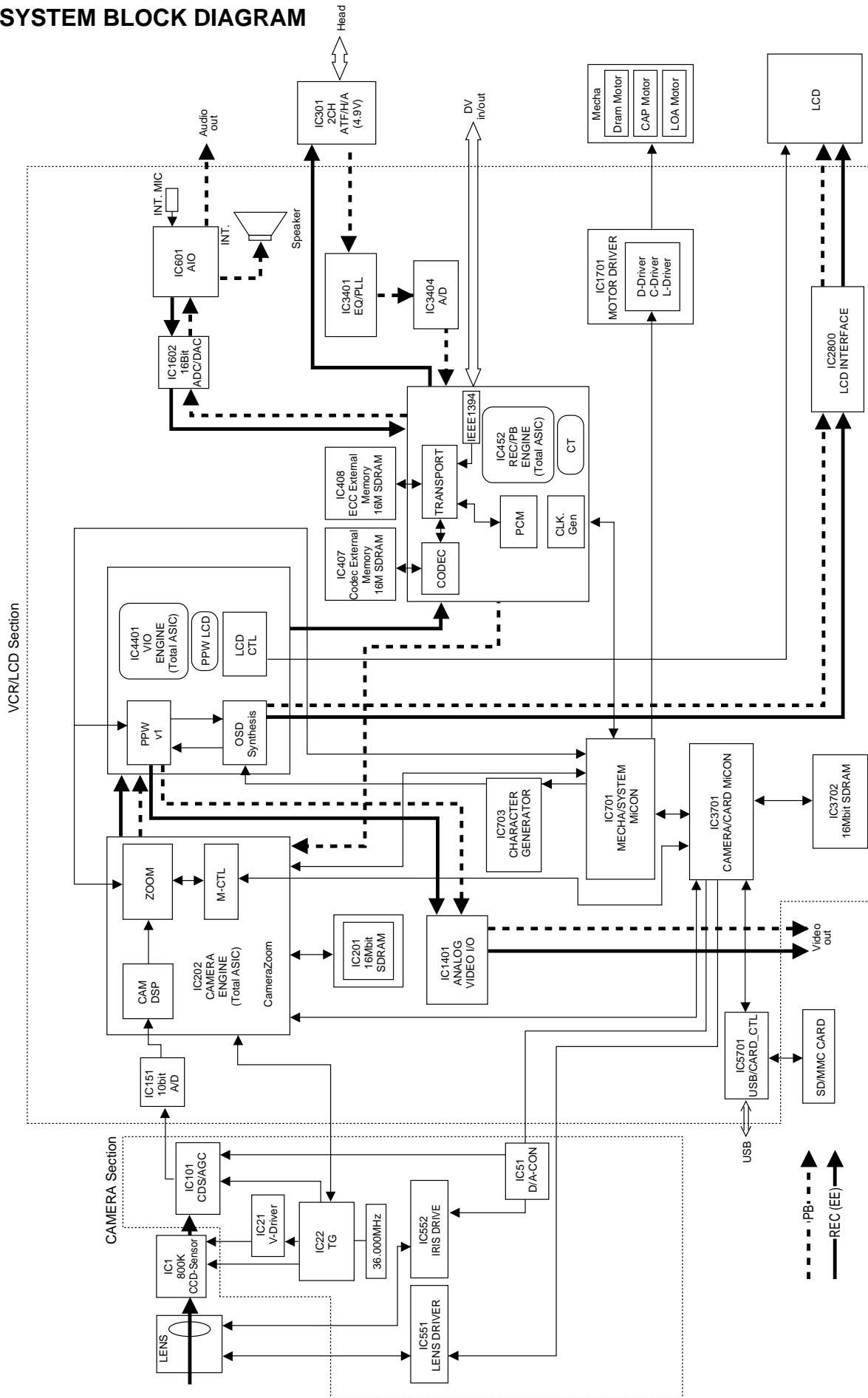
11-5. FLOW IN PB MODE (AUDIO)

WAVEFORM DIAGRAM (1.6 kHz SINE WAVE)

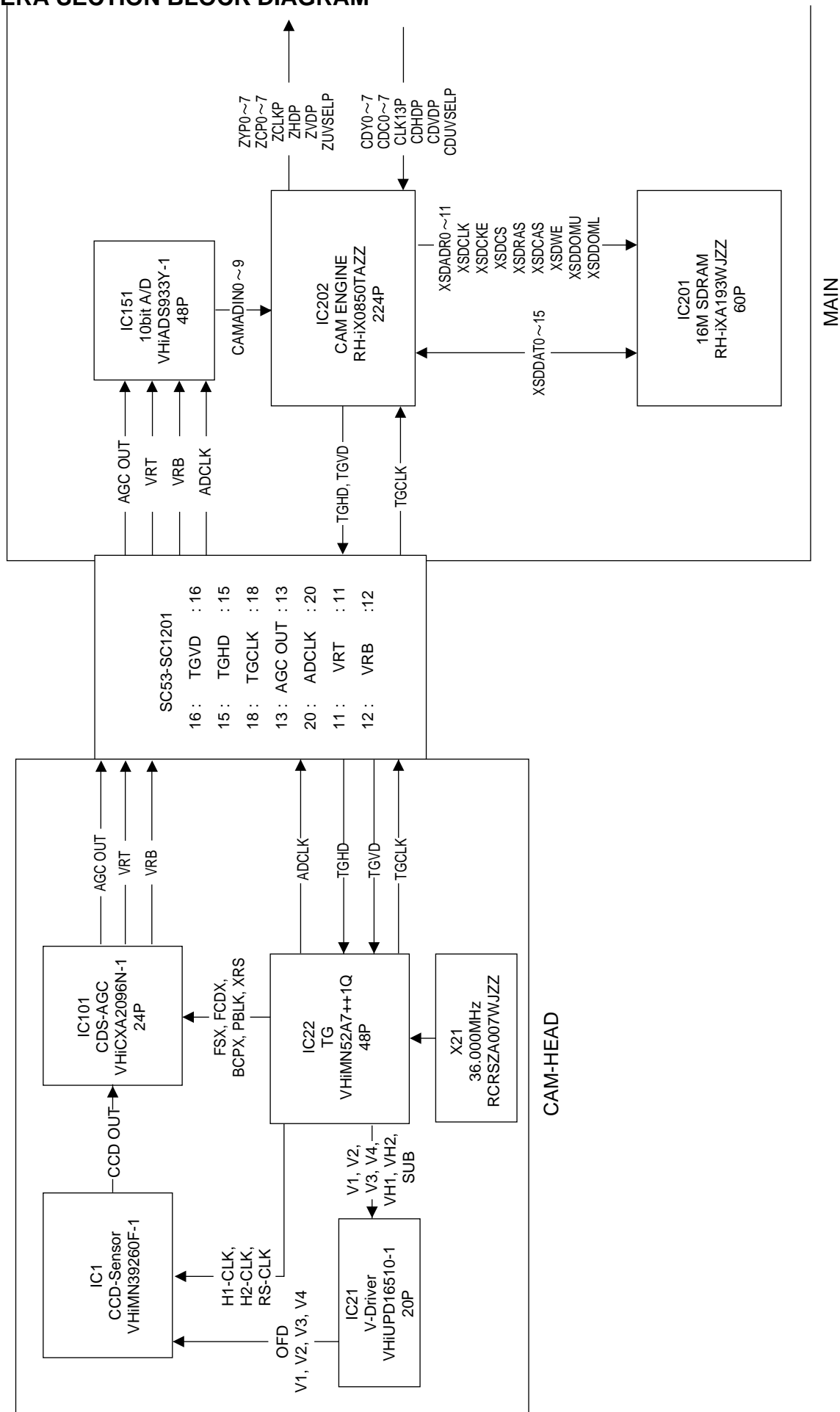


12. BLOCK DIAGRAMS

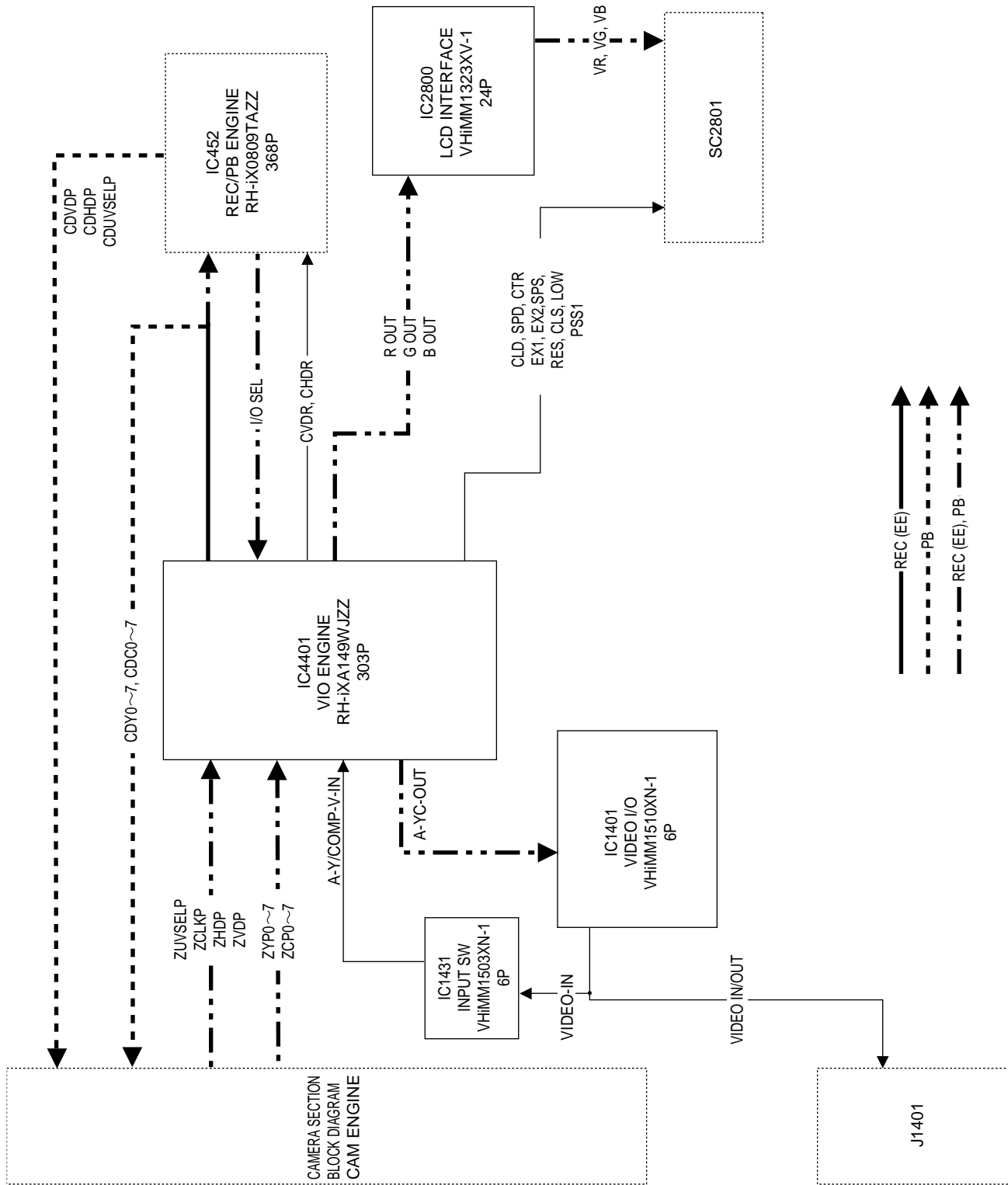
12-1. SYSTEM BLOCK DIAGRAM



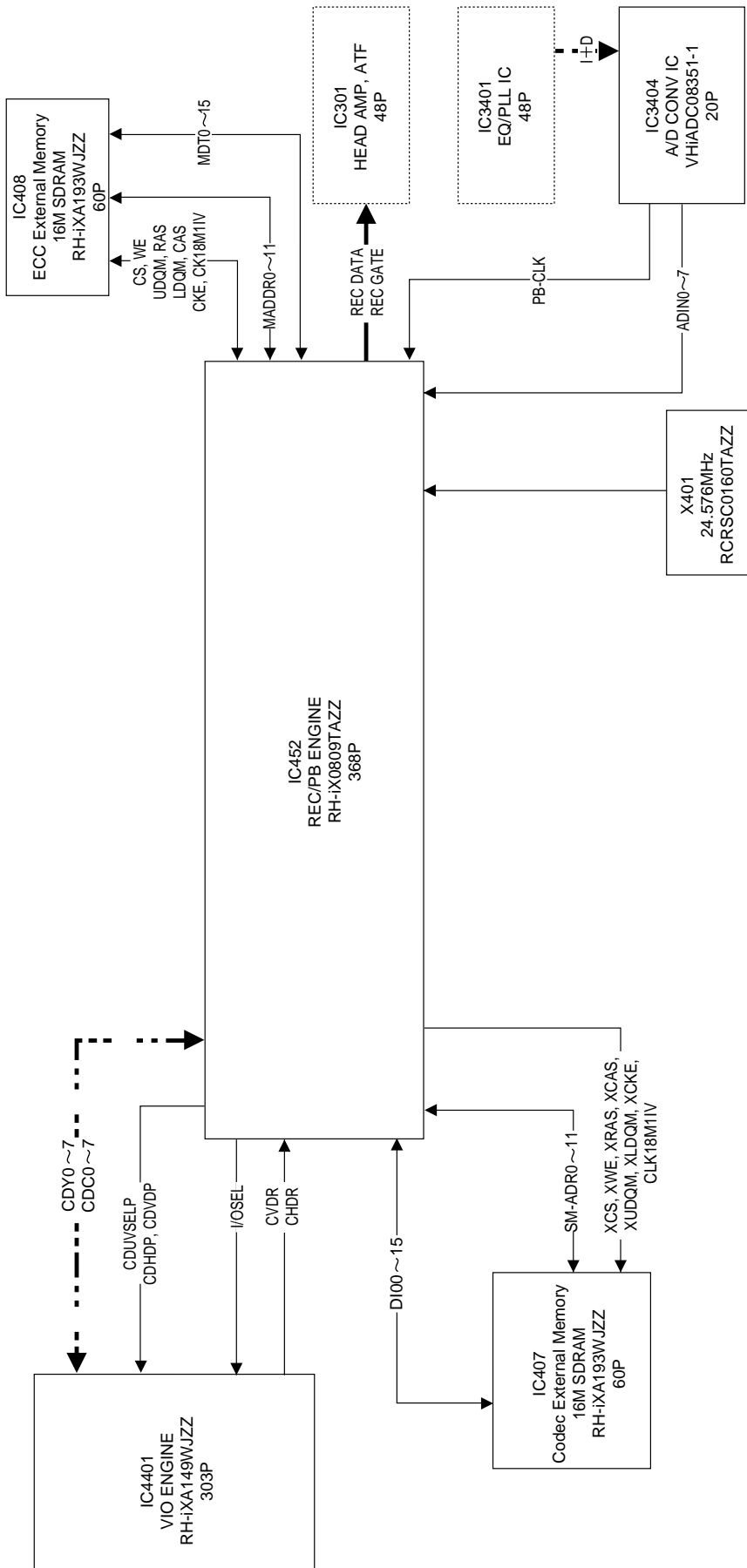
12-2. CAMERA SECTION BLOCK DIAGRAM



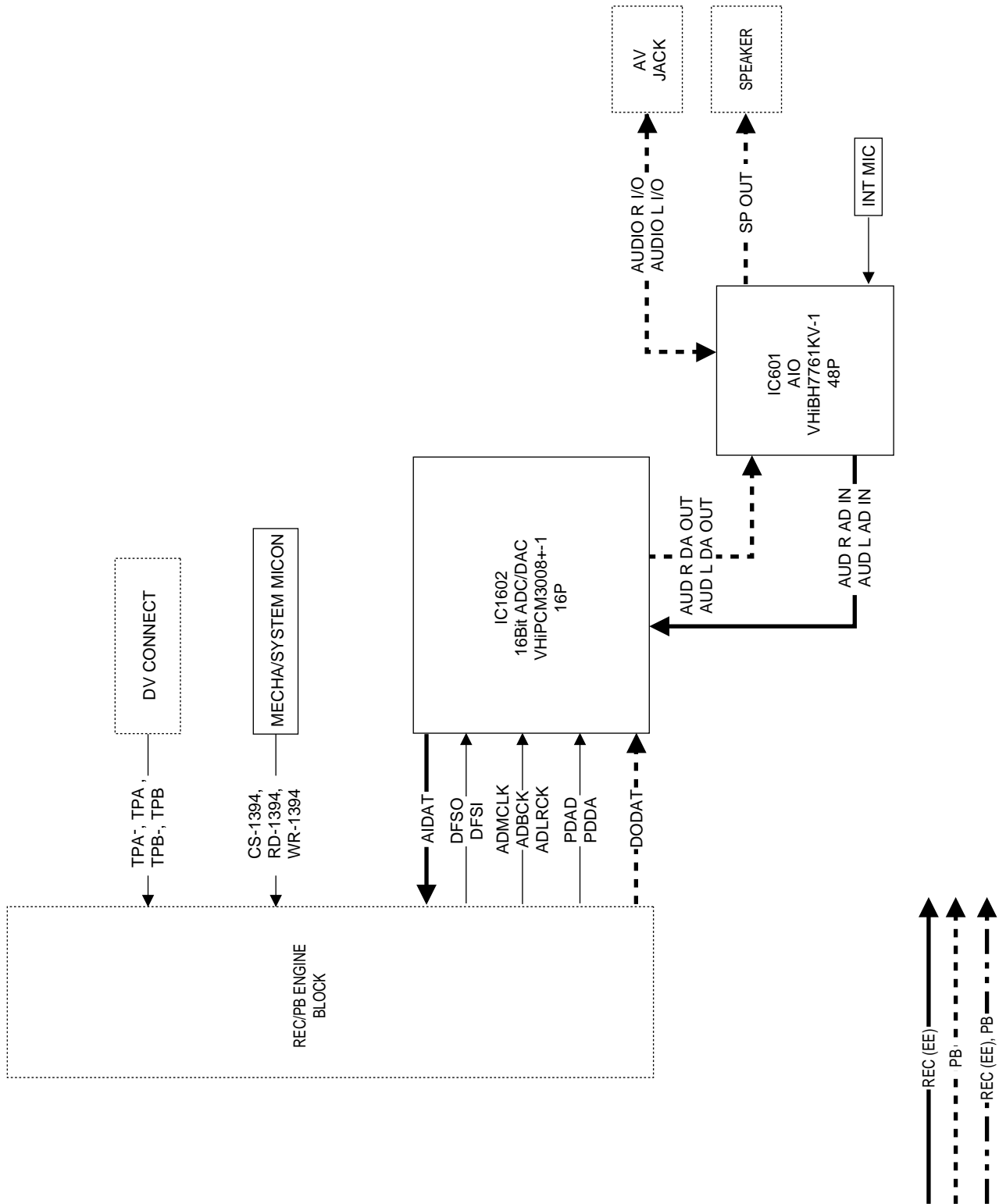
12-3. VIO ENGINE SECTION BLOCK DIAGRAM



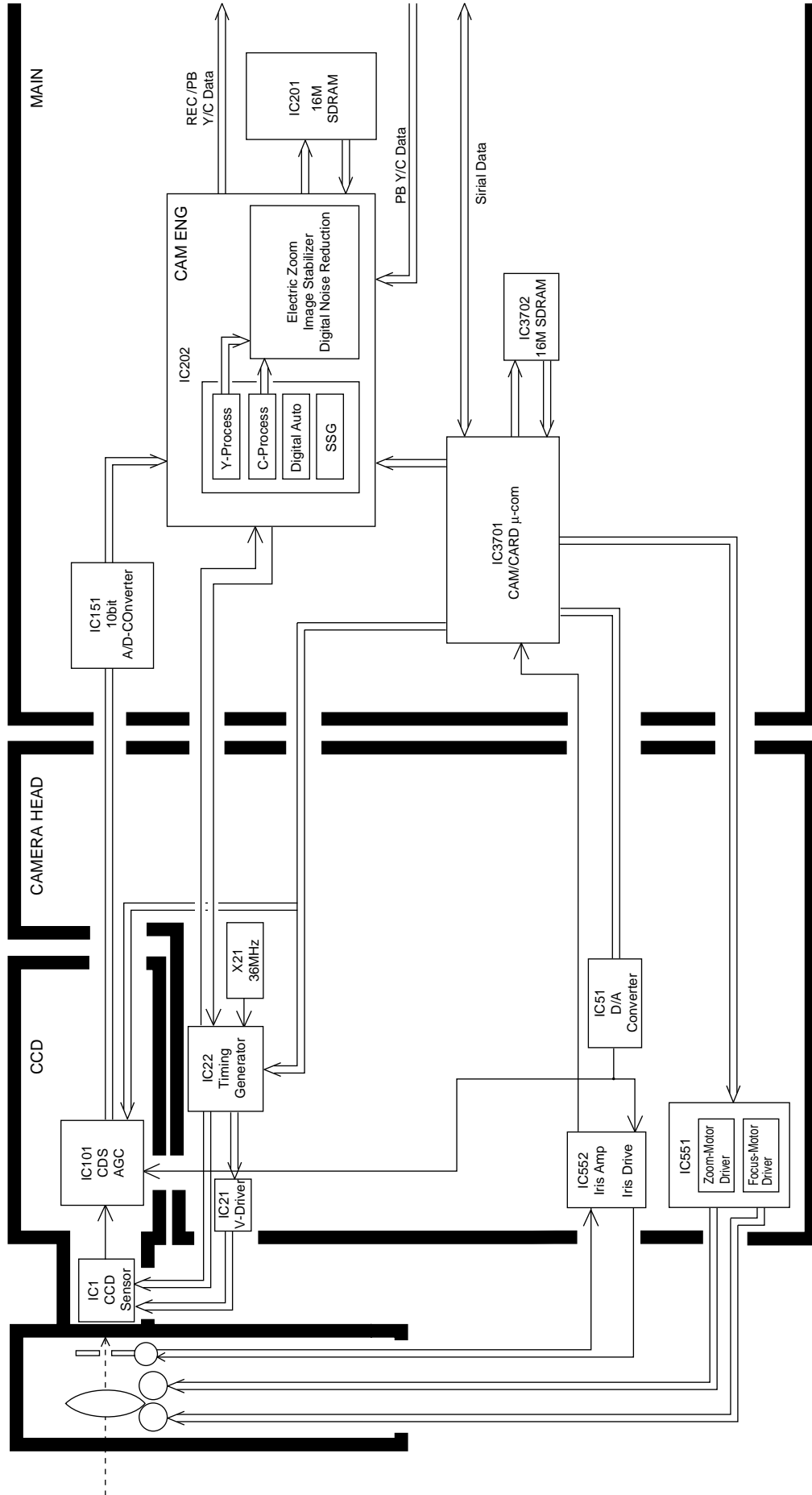
12-4. REC/PB SECTION BLOCK DIAGRAM



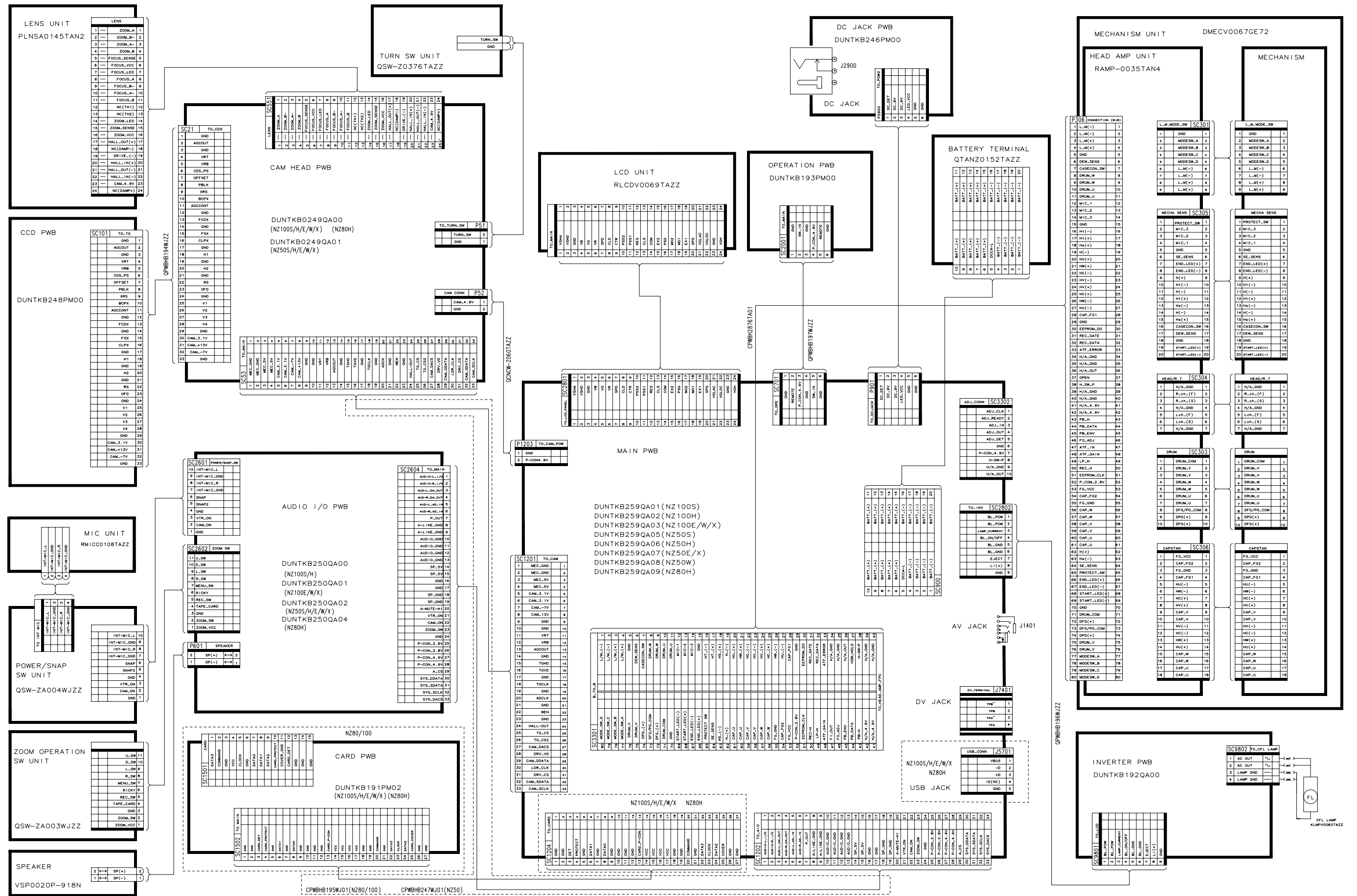
12-5. AUDIO/DIGITAL OUTPUT SECTION BLOCK DIAGRAM



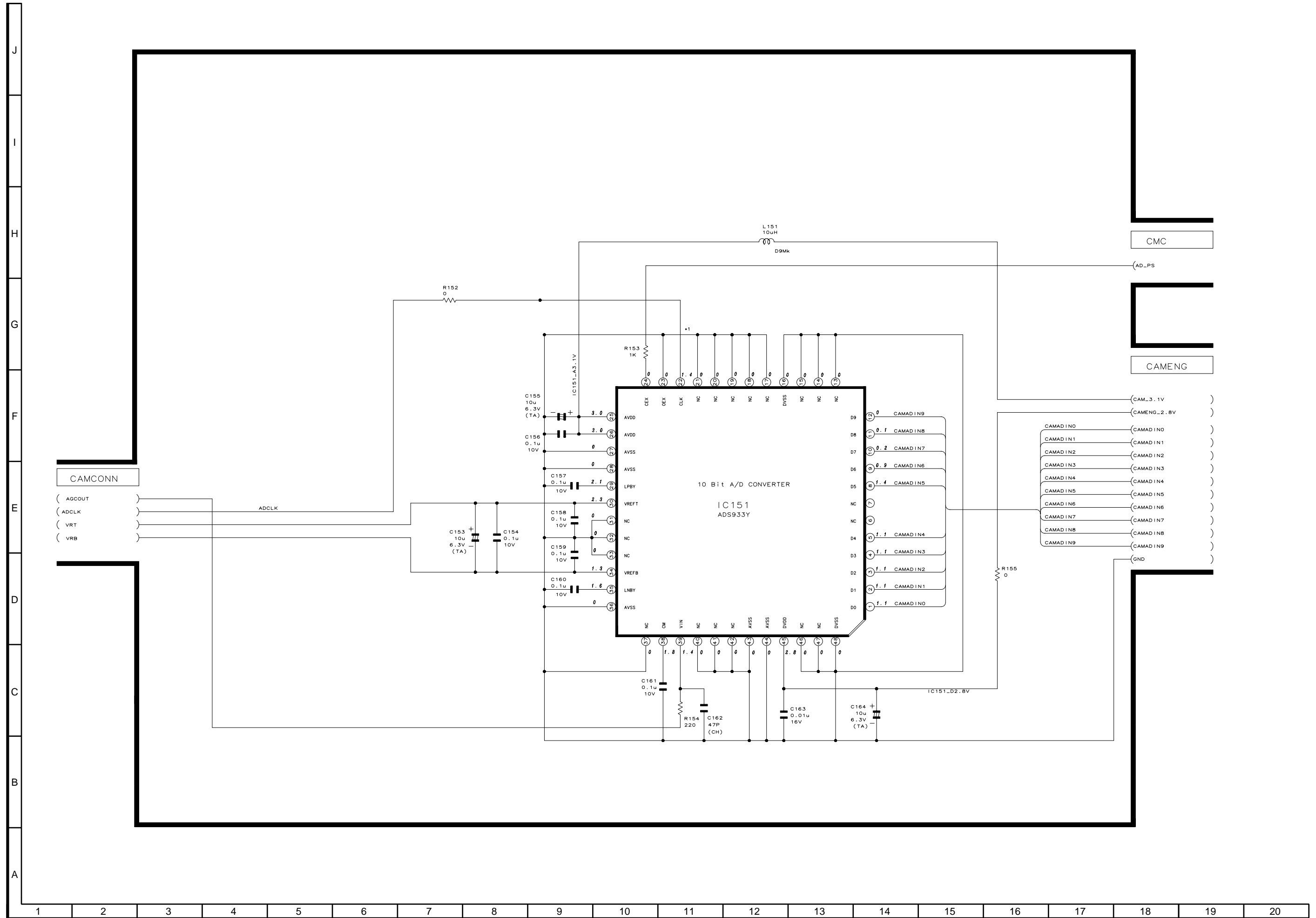
12-6. CAMERA CIRCUIT BLOCK DIAGRAM



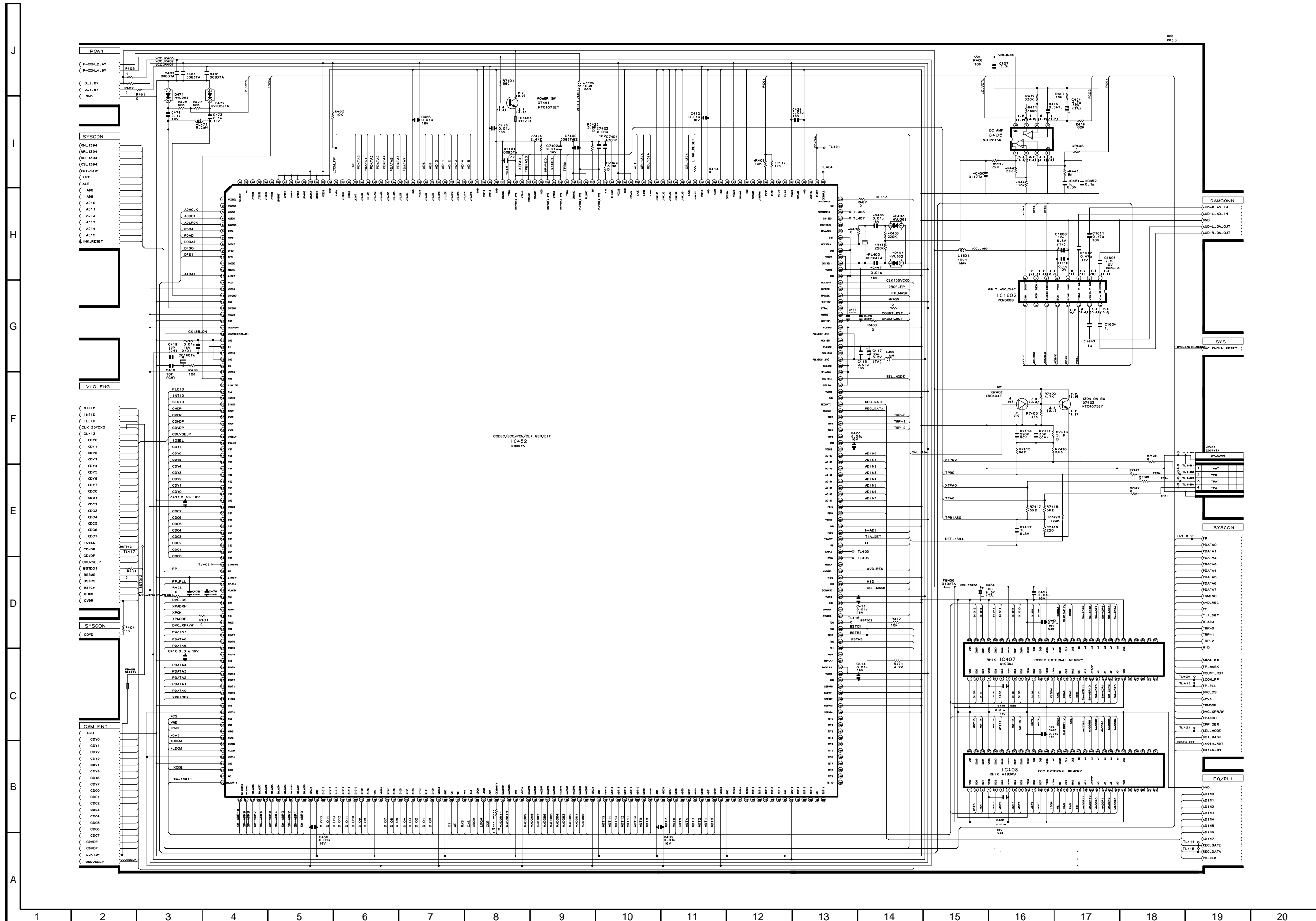
13. SCHEMATIC DIAGRAMS 13-1. OVERALL SCHEMATIC DIAGRAM



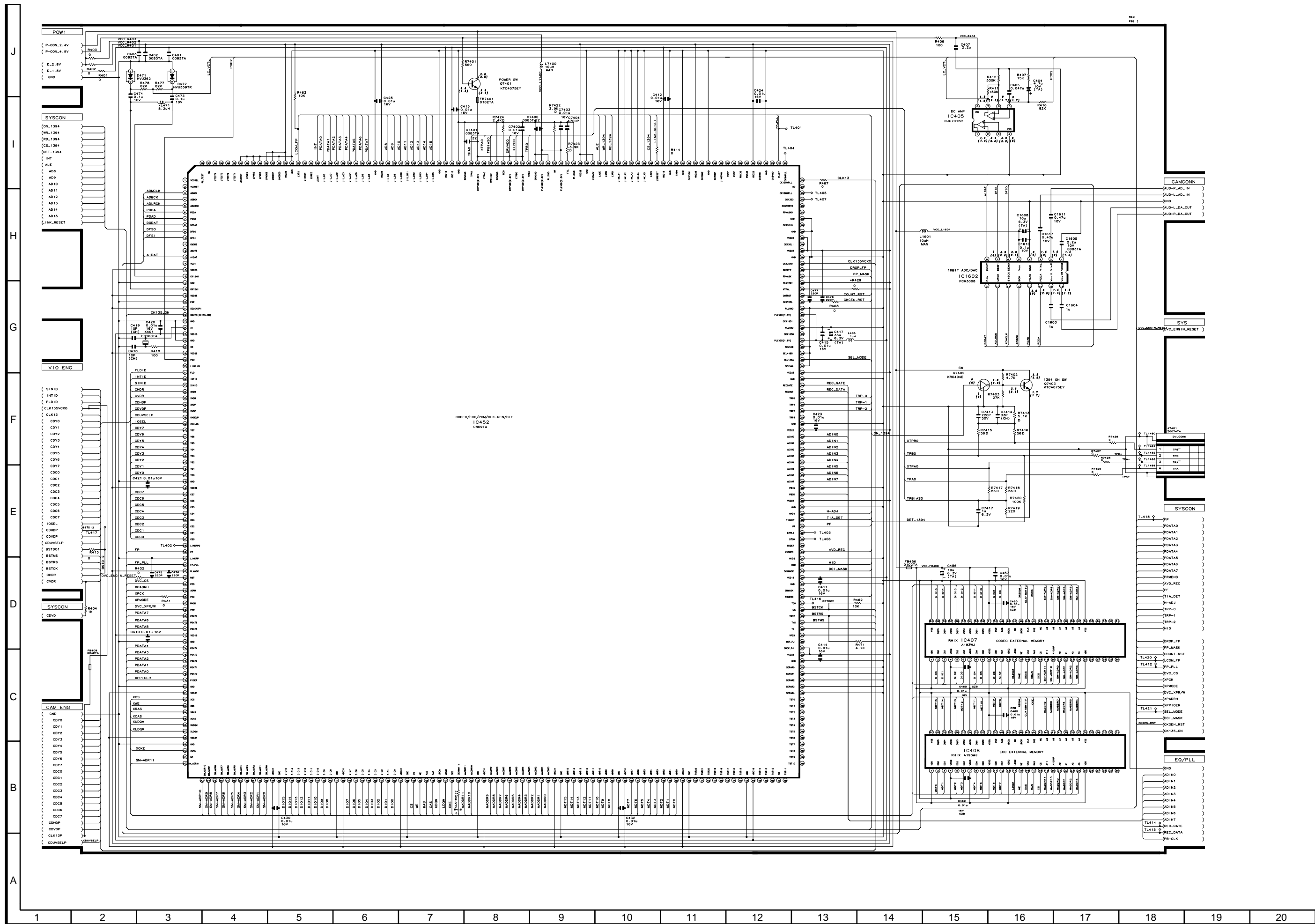
13-2. ADC SCHEMATIC DIAGRAM



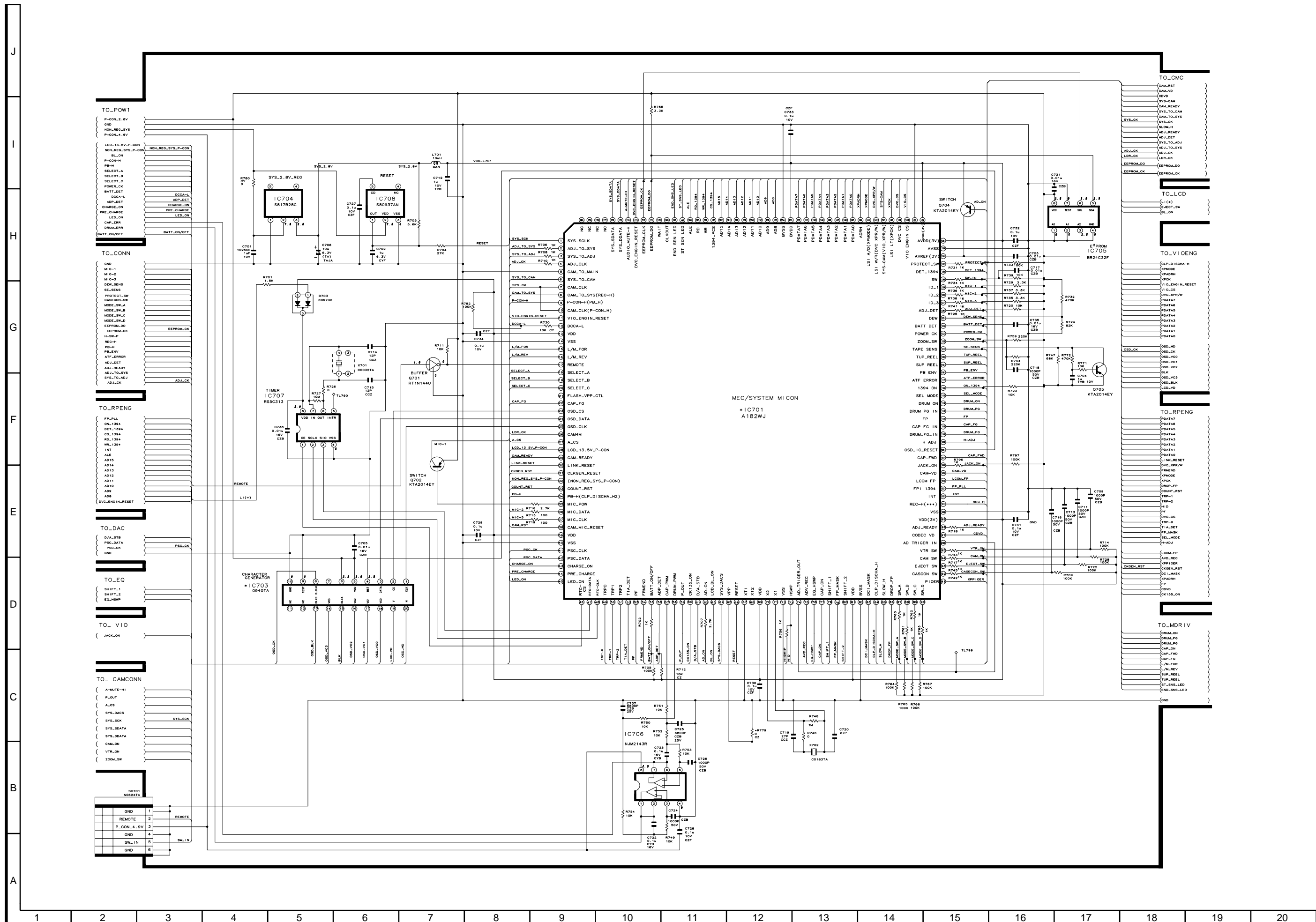
13-4. REC/PB ENGINE SCHEMATIC DIAGRAM(VL-NZ50E/W/NZ100S/H/E)



13-5. REC/PB ENGINE SCHEMATIC DIAGRAM(VL-NZ50S/H/NZ80H)

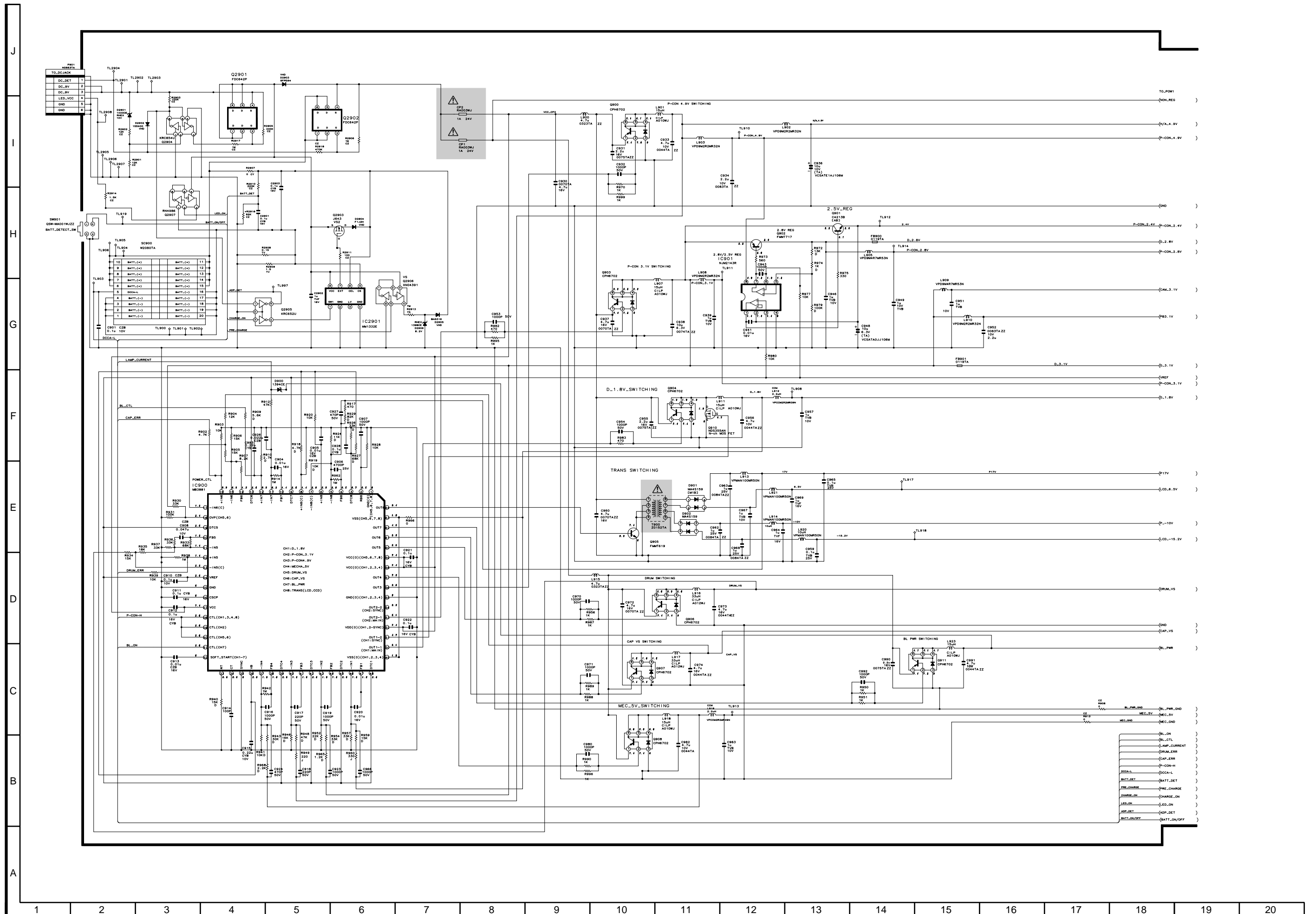


13-6. MEC/SYS MiCON SCHEMATIC DIAGRAM

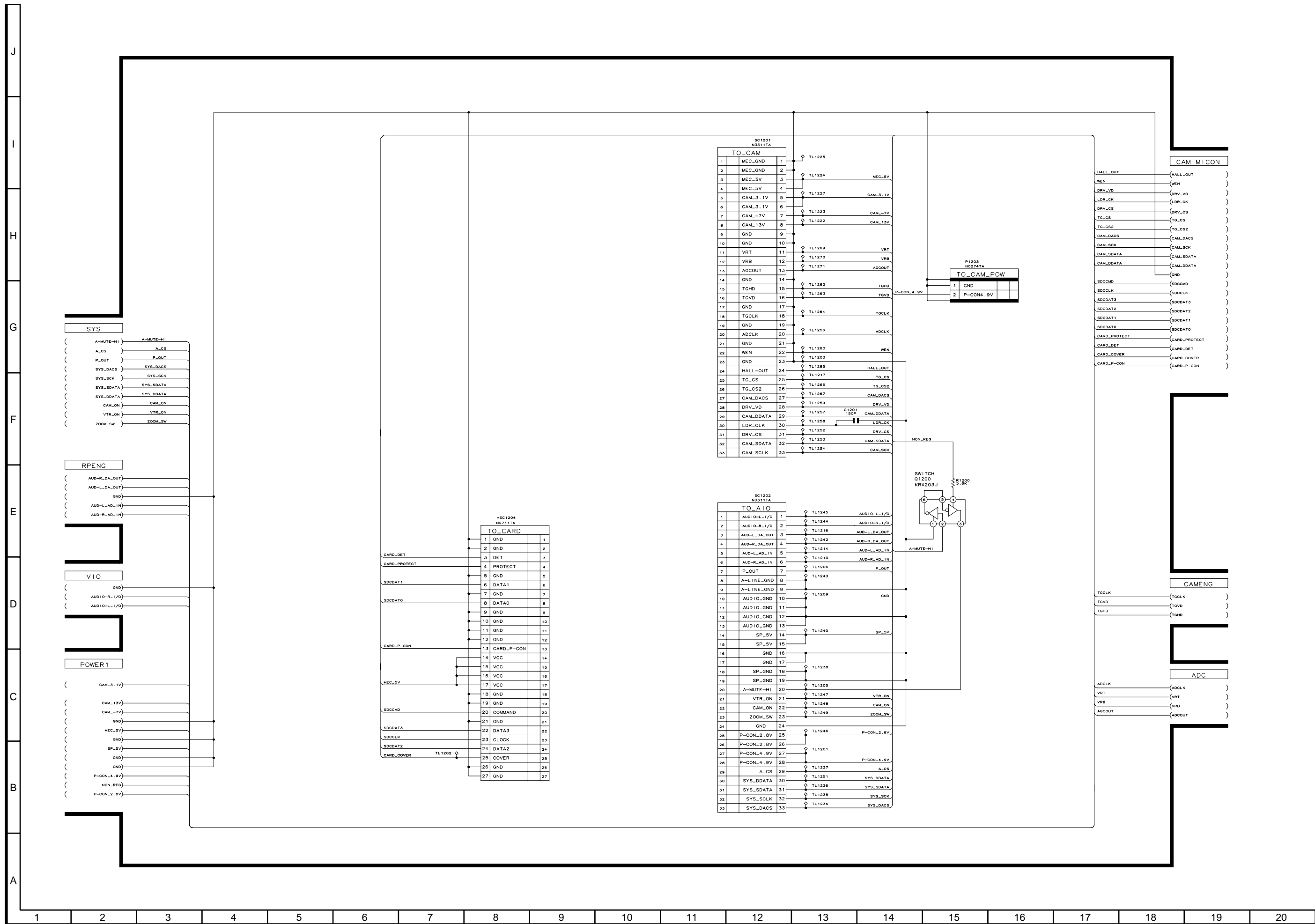


13-7. POWER2 SCHEMATIC DIAGRAM

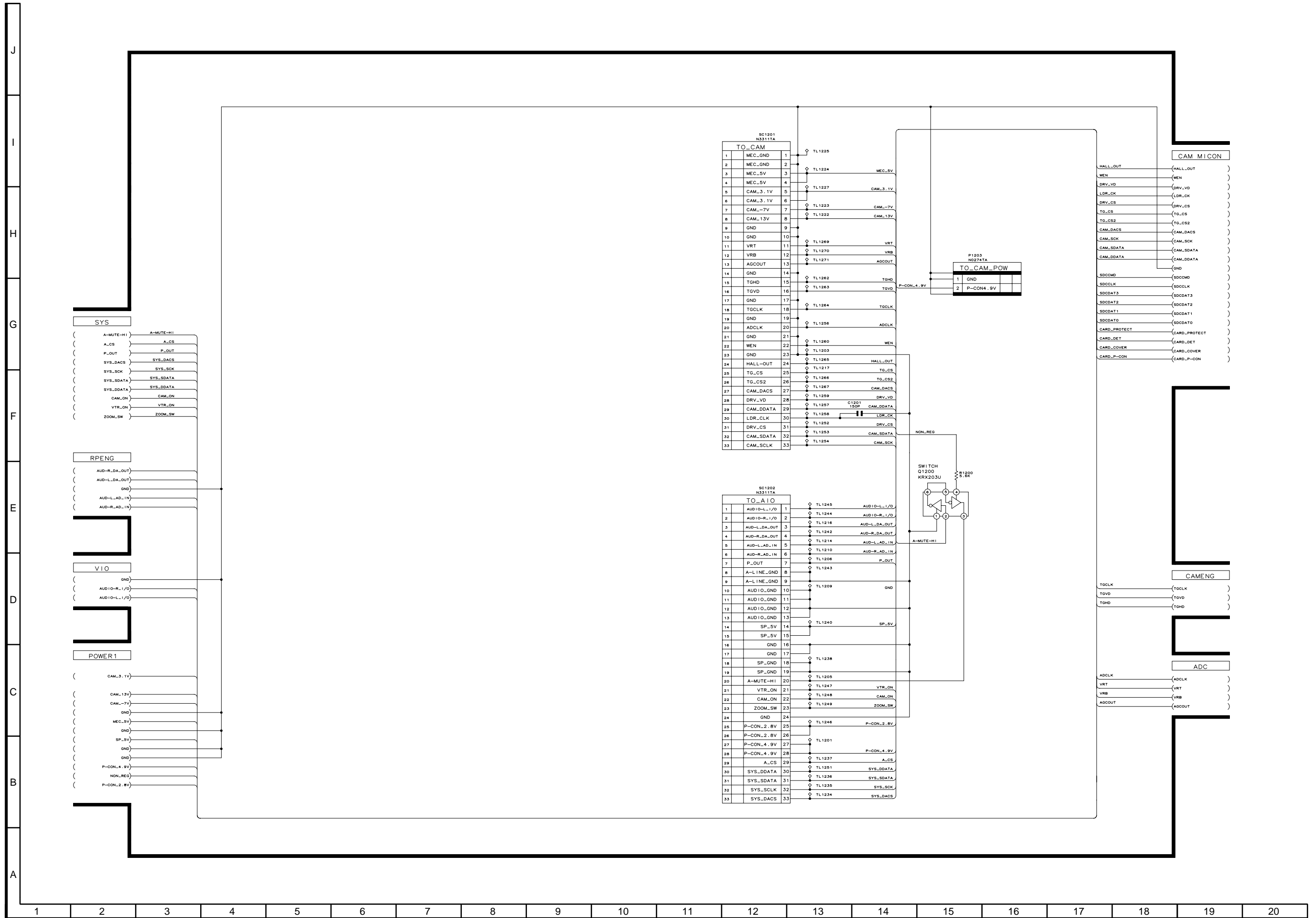
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



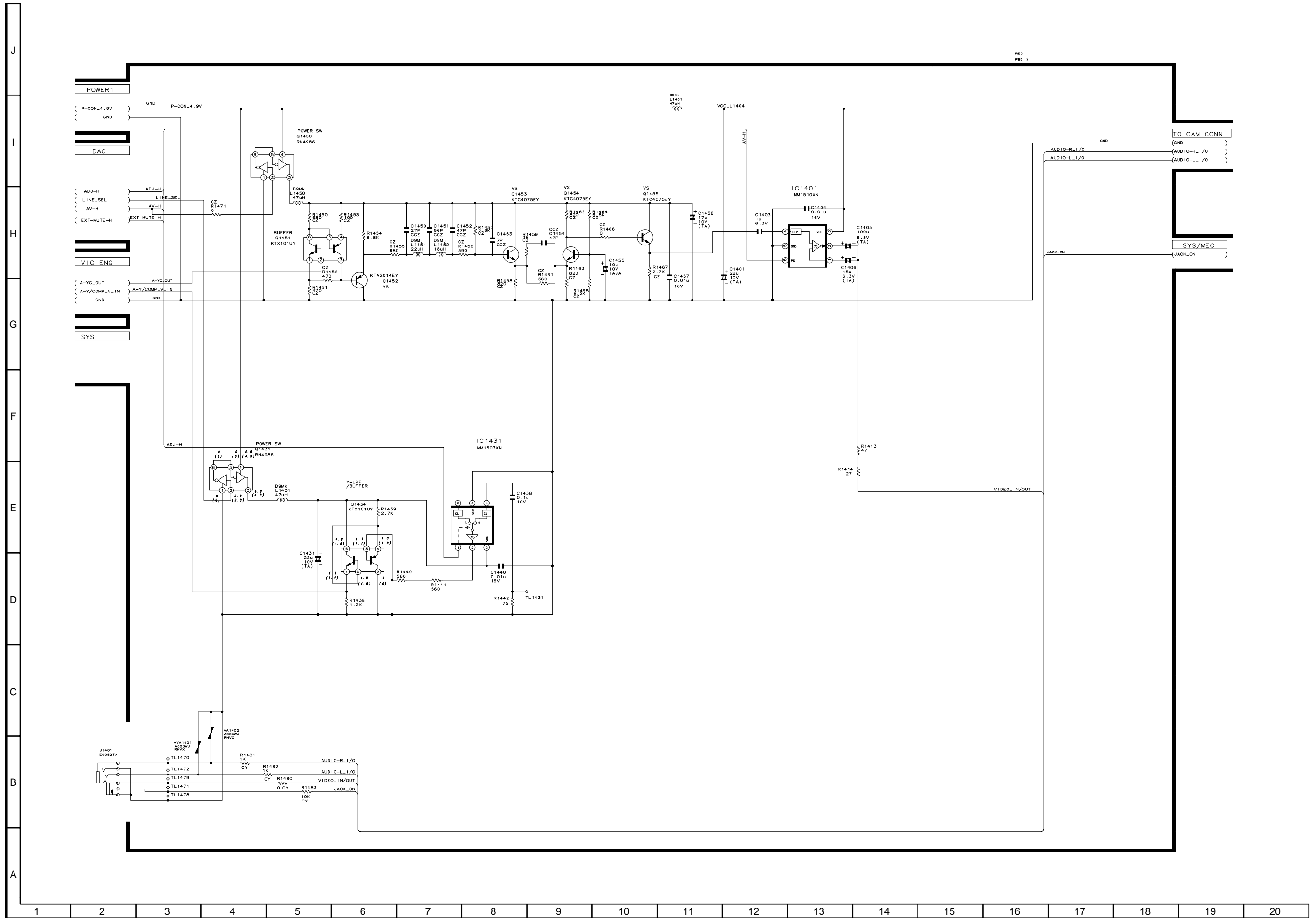
13-8. CAMERA CONN SCHEMATIC DIAGRAM (VL-NZ80H/NZ100S/H/E)



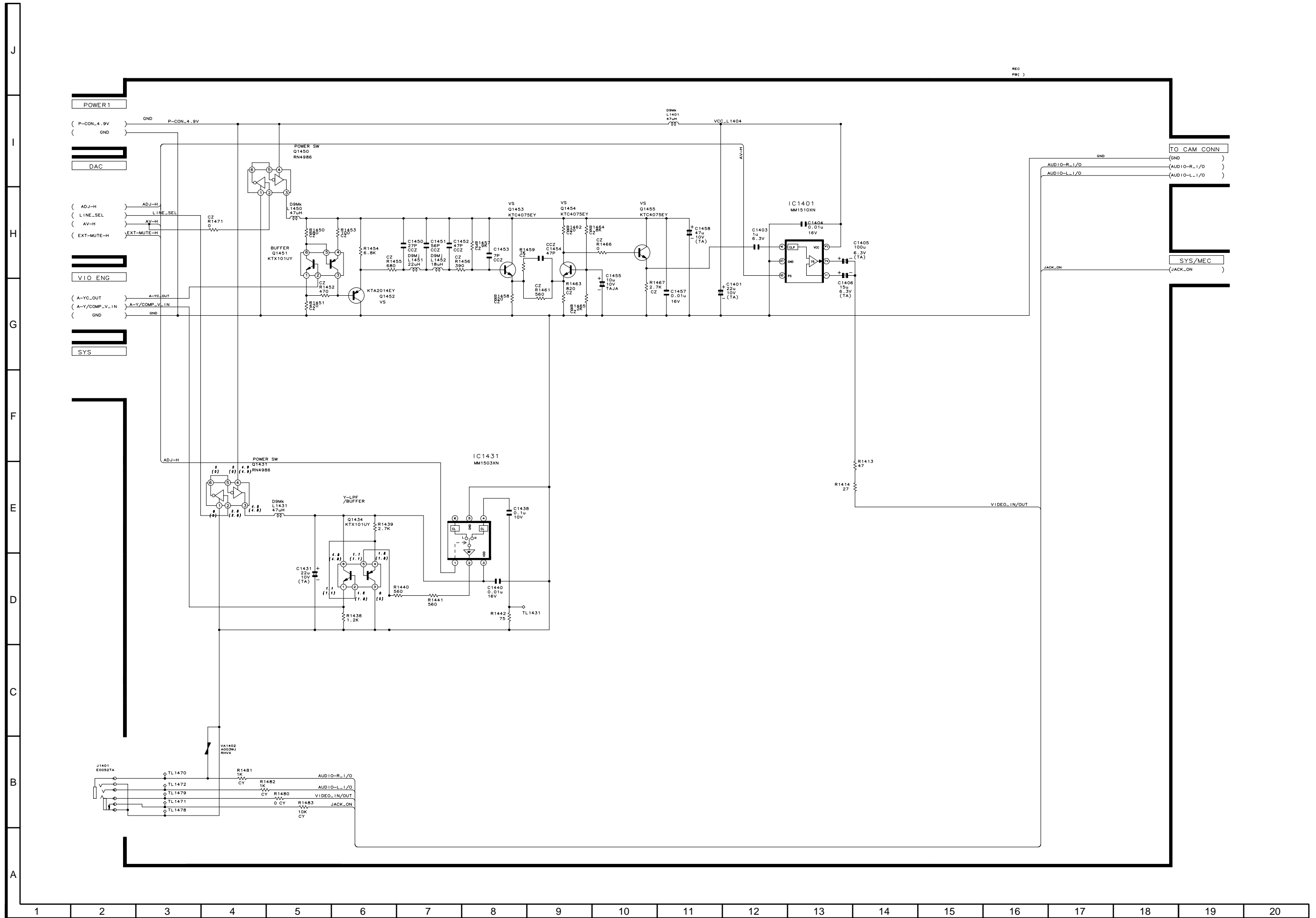
13-9. CAMERA CONN SCHEMATIC DIAGRAM (VL-NZ50S/H/E/W)



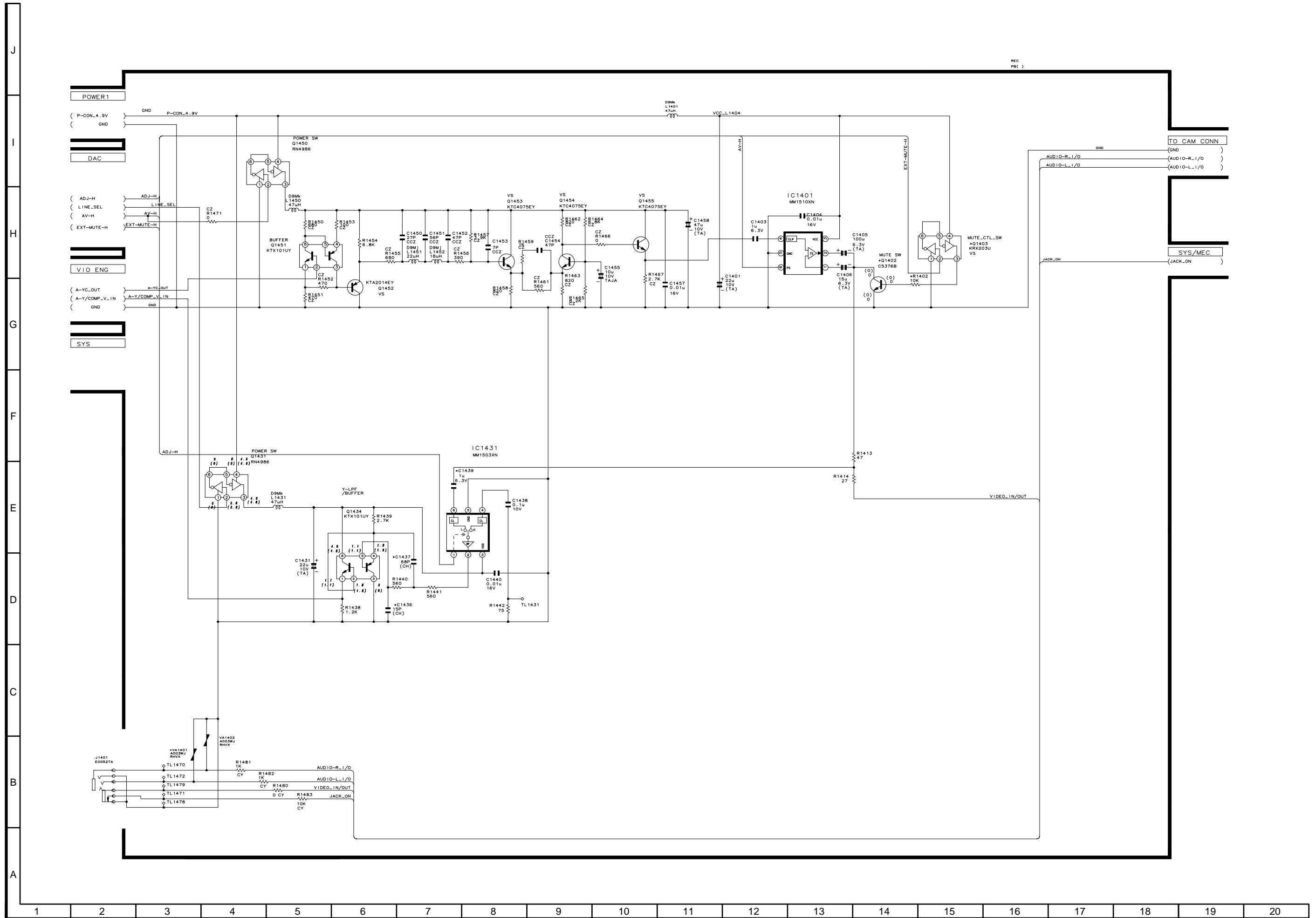
13-10. VIDEO I/O SCHEMATIC DIAGRAM (VL-NZ50S/H/NZ80H)



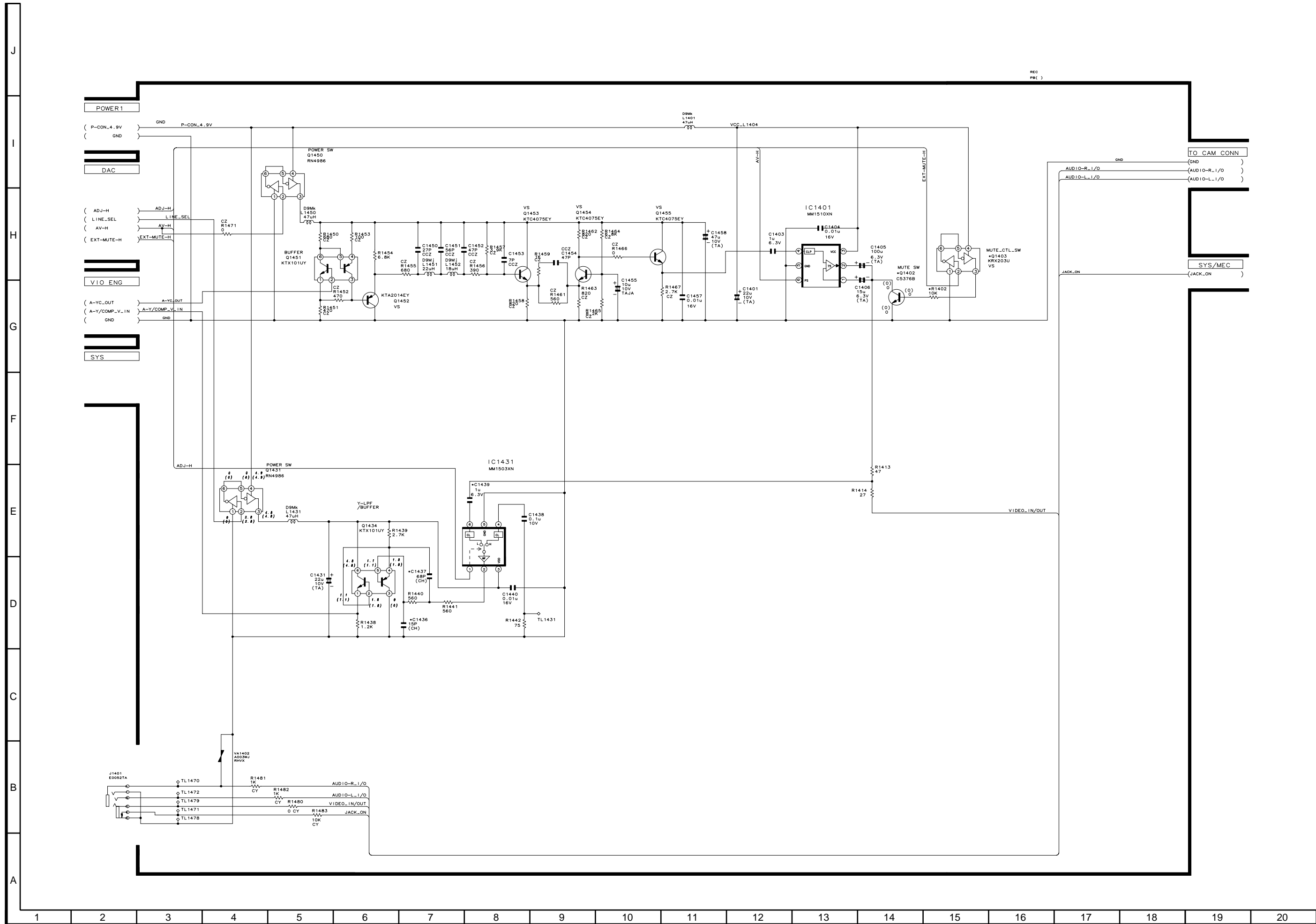
13-11. VIDEO I/O SCHEMATIC DIAGRAM (VL-NZ50E/W)



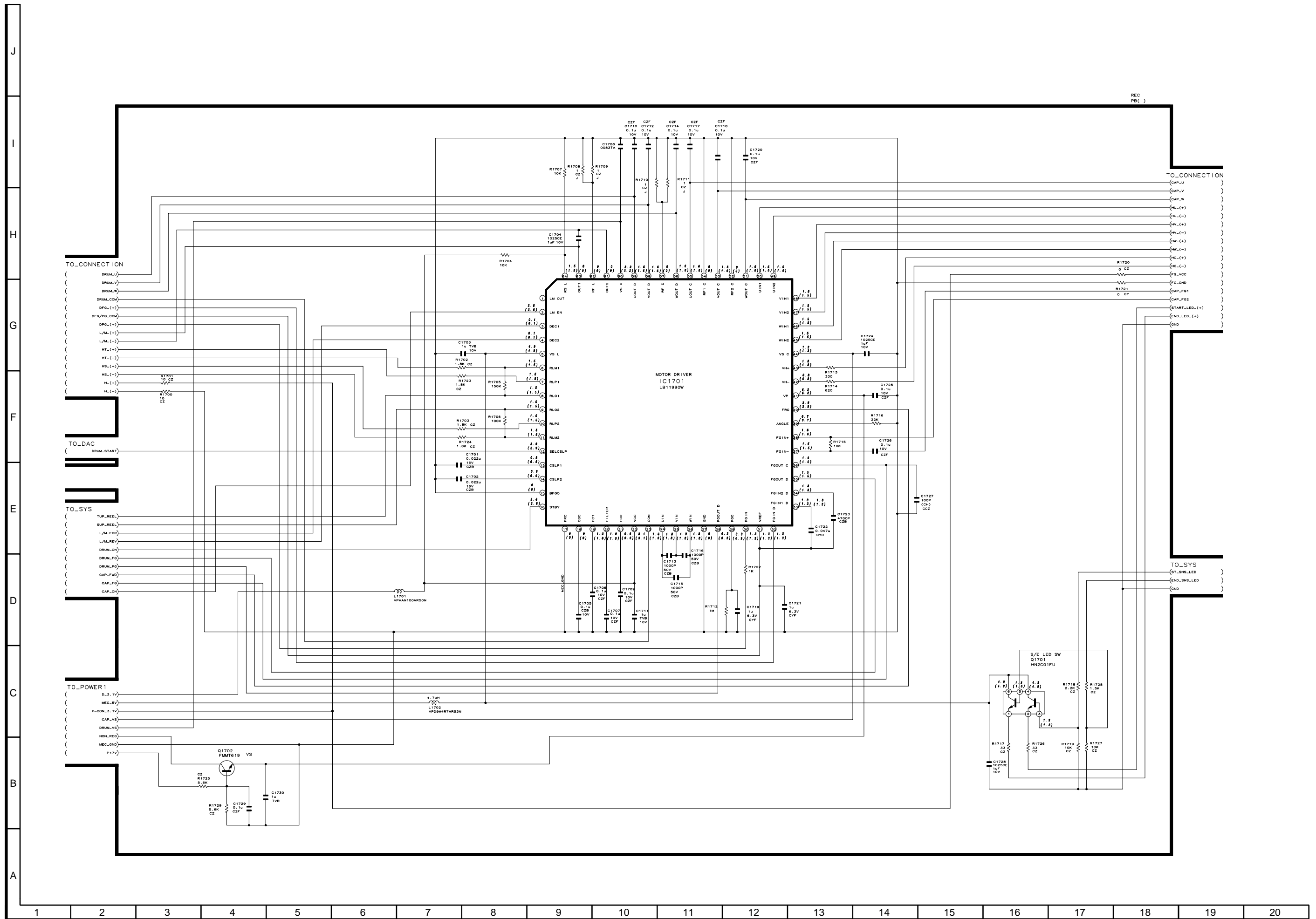
13-12. VIDEO I/O SCHEMATIC DIAGRAM (VL-NZ100S/H)



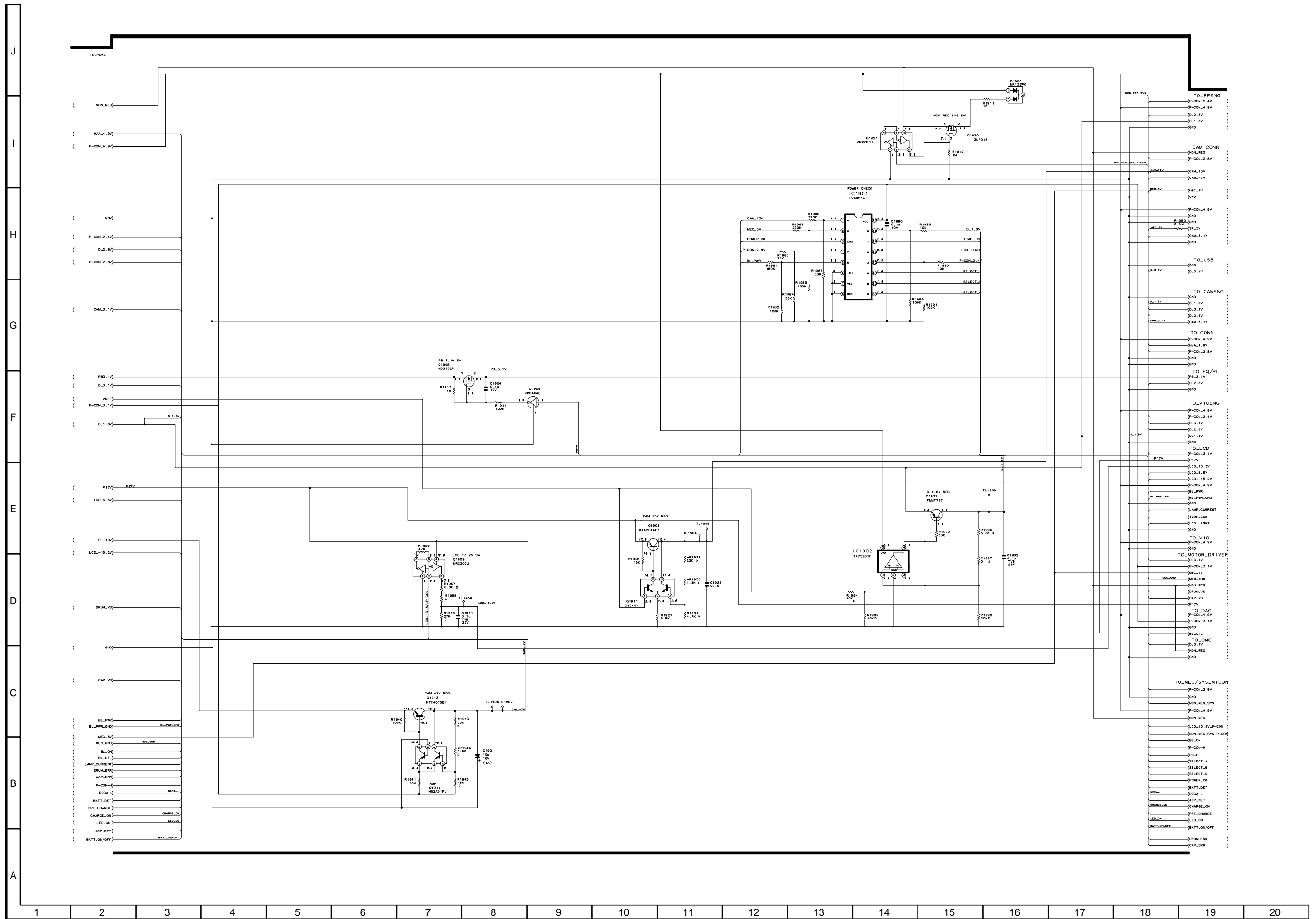
13-13. VIDEO I/O SCHEMATIC DIAGRAM (VL-NZ100E)



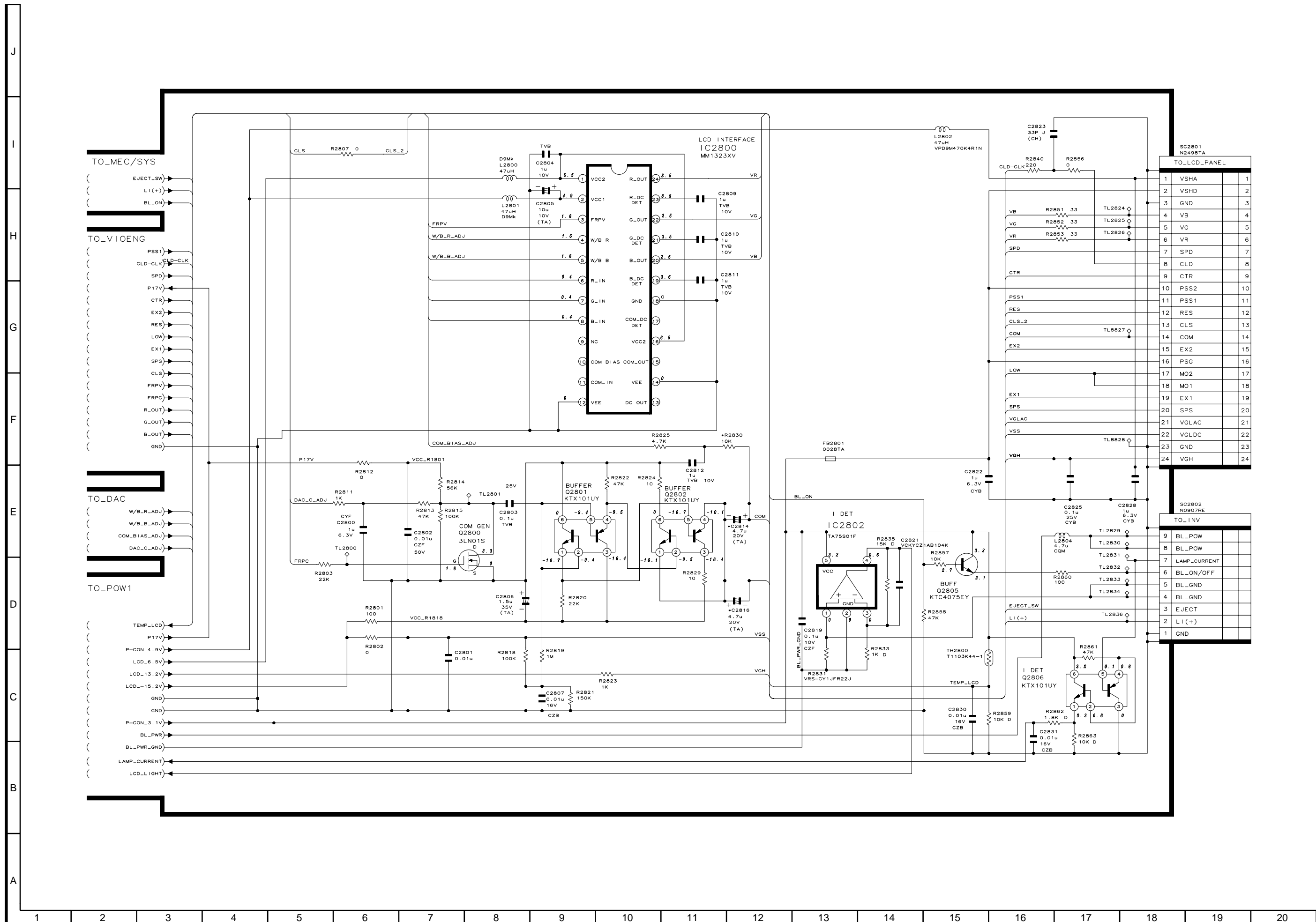
13-14. MOTOR DRIVER SCHEMATIC DIAGRAM



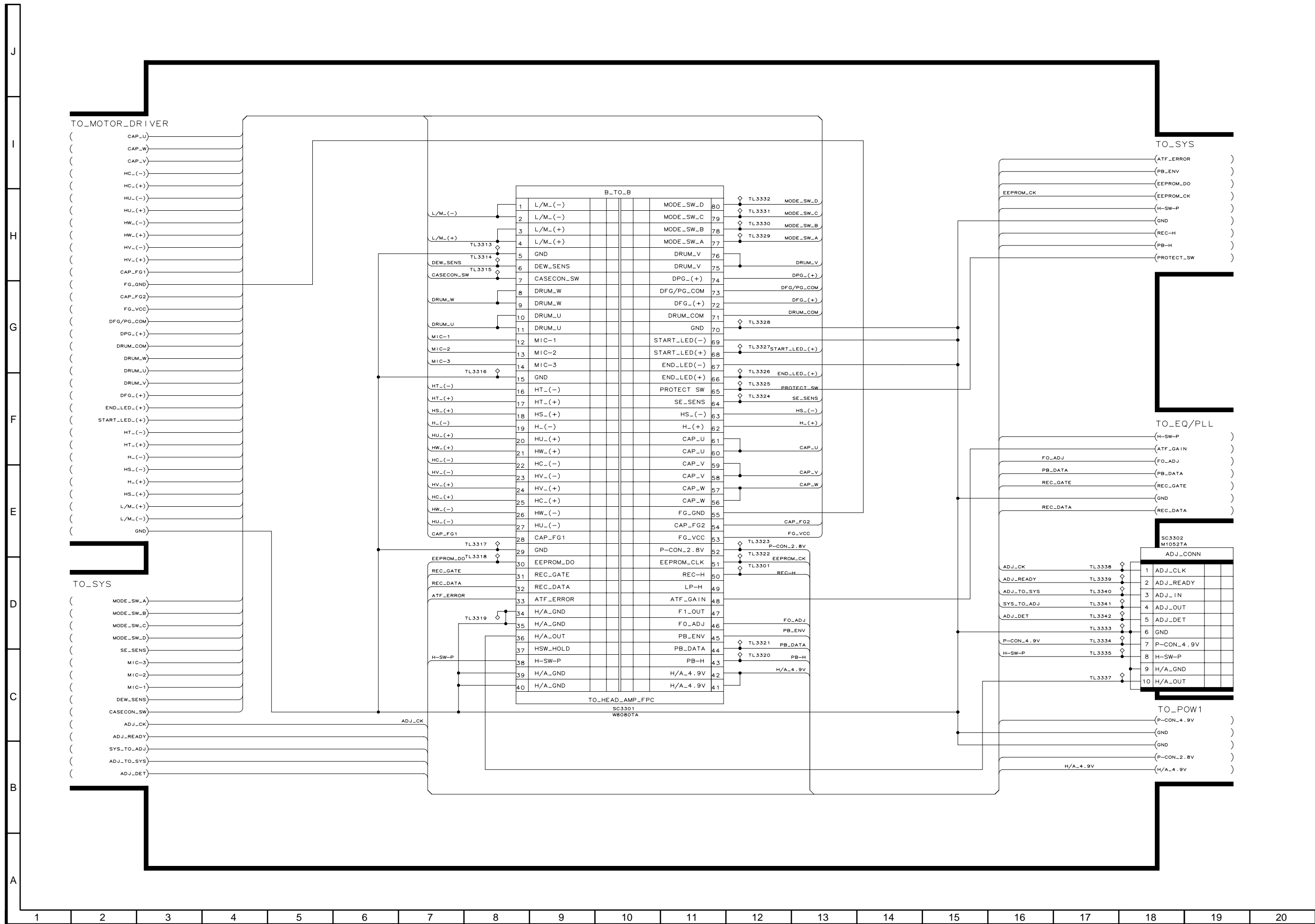
13-15. POWER1 SCHEMATIC DIAGRAM



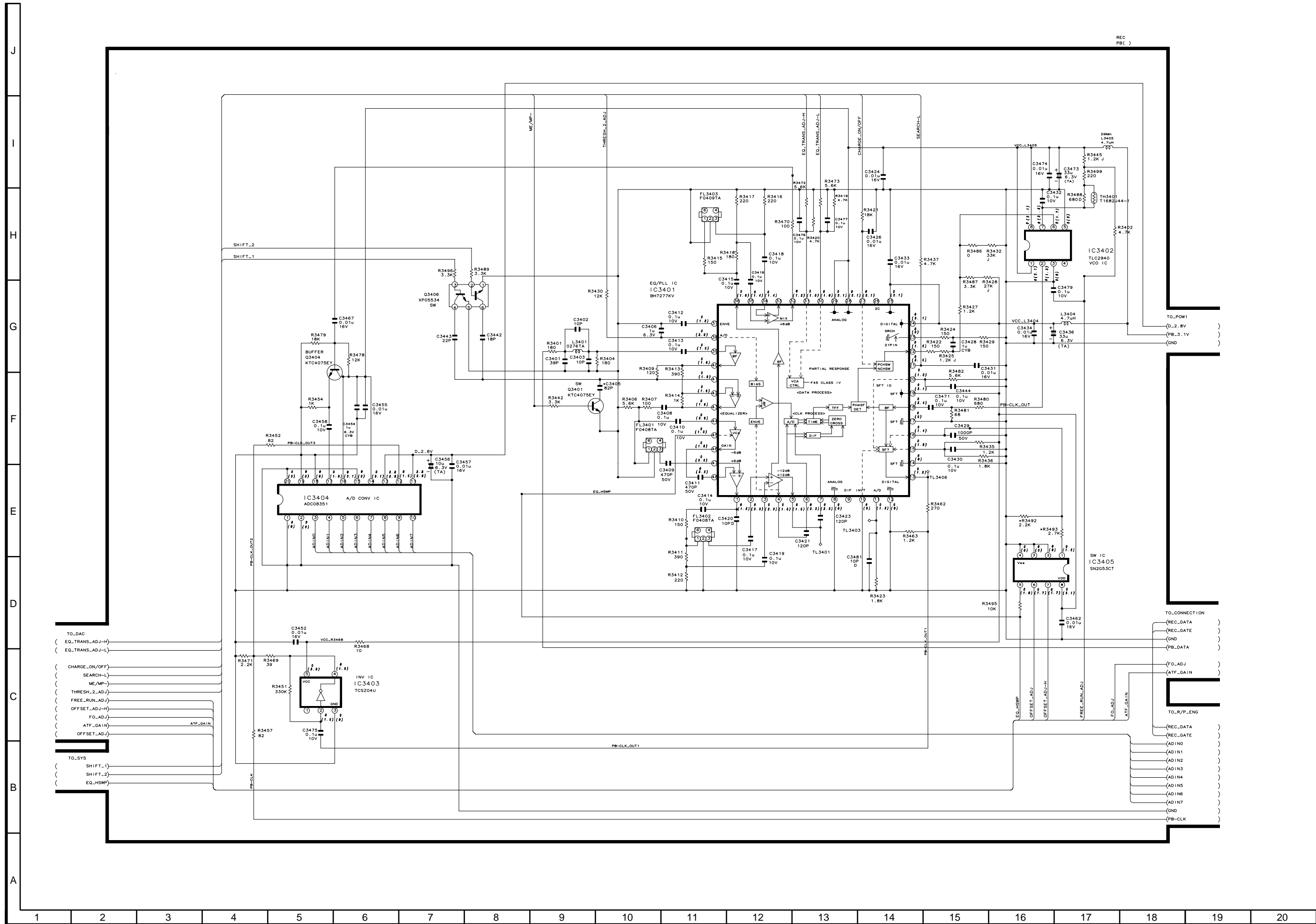
13-16. LCD SCHEMATIC DIAGRAM



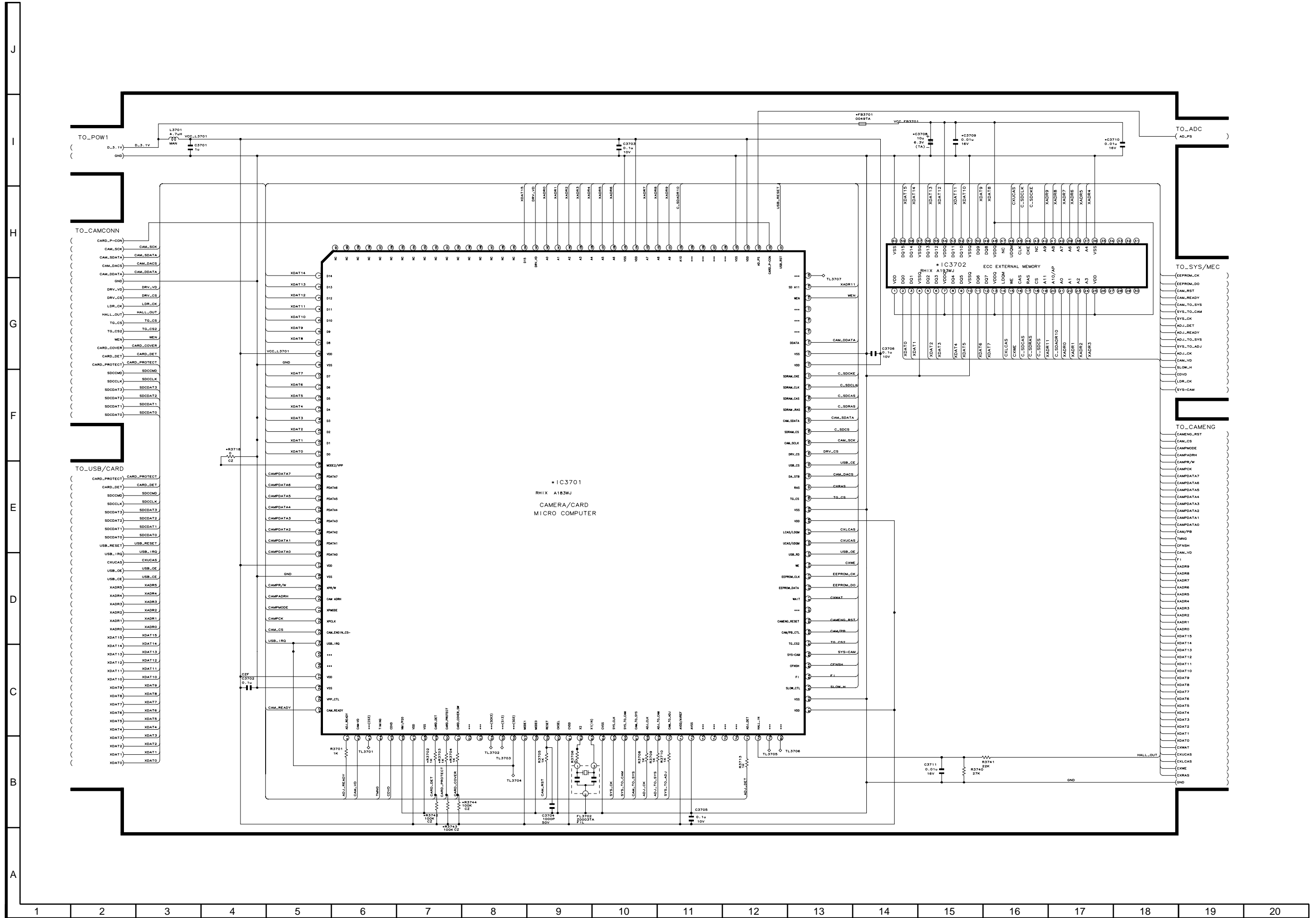
13-17. CONNECTION(B-B) SCHEMATIC DIAGRAM



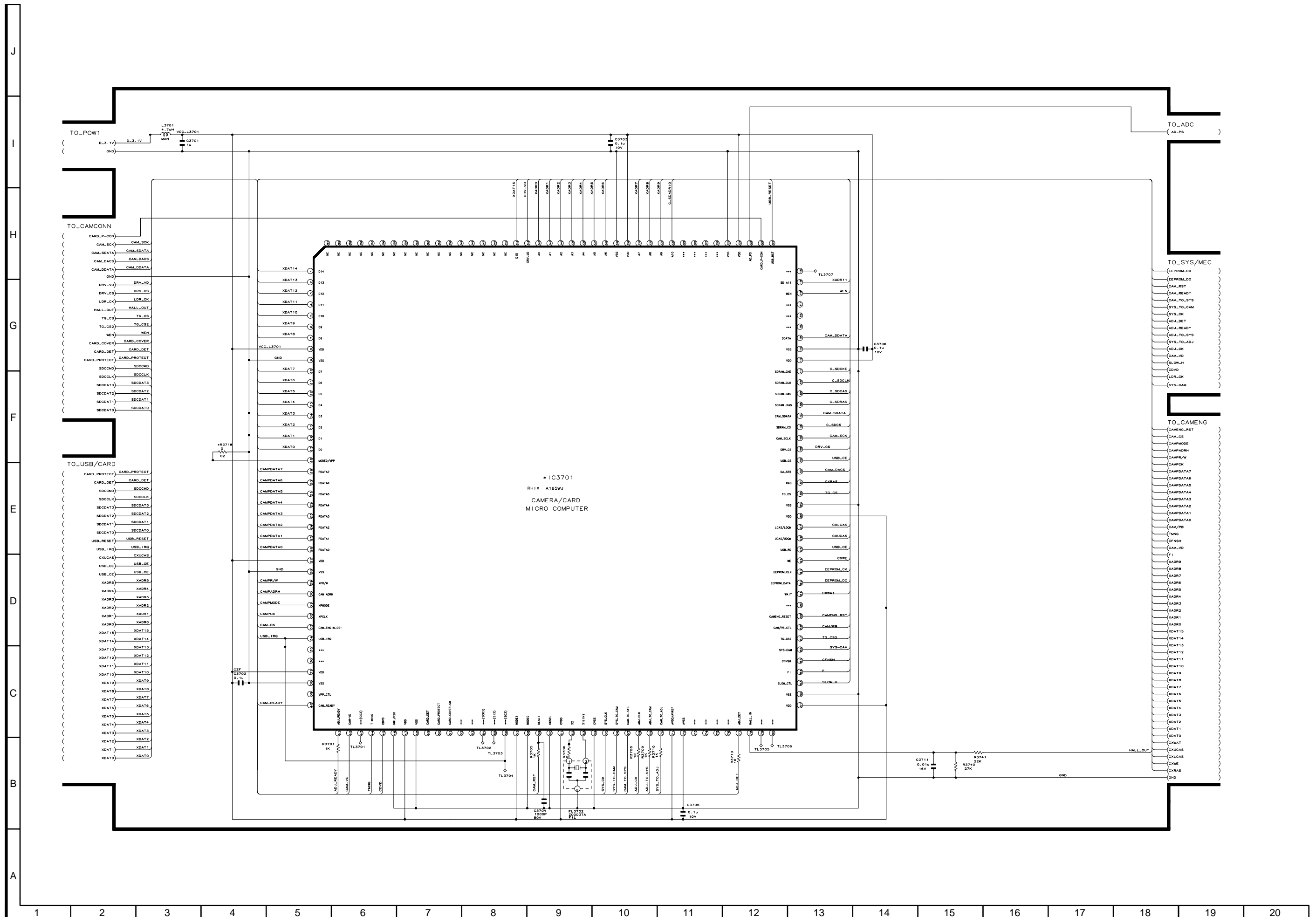
13-18. EQ/PLL SCHEMATIC DIAGRAM



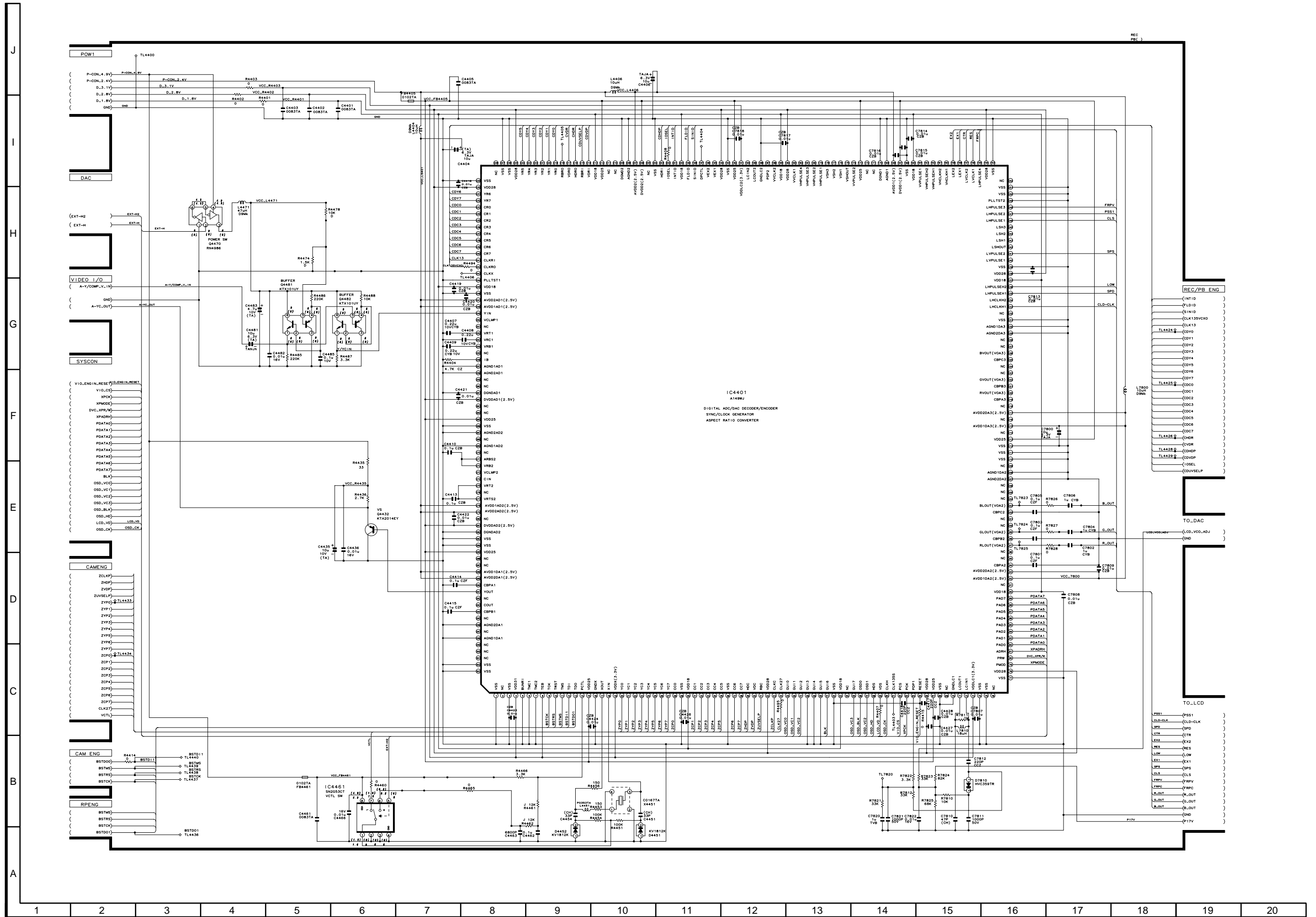
13-19. CAM/CARD MiCON SCHEMATIC DIAGRAM (VL-NZ80H/NZ100S/H/E)



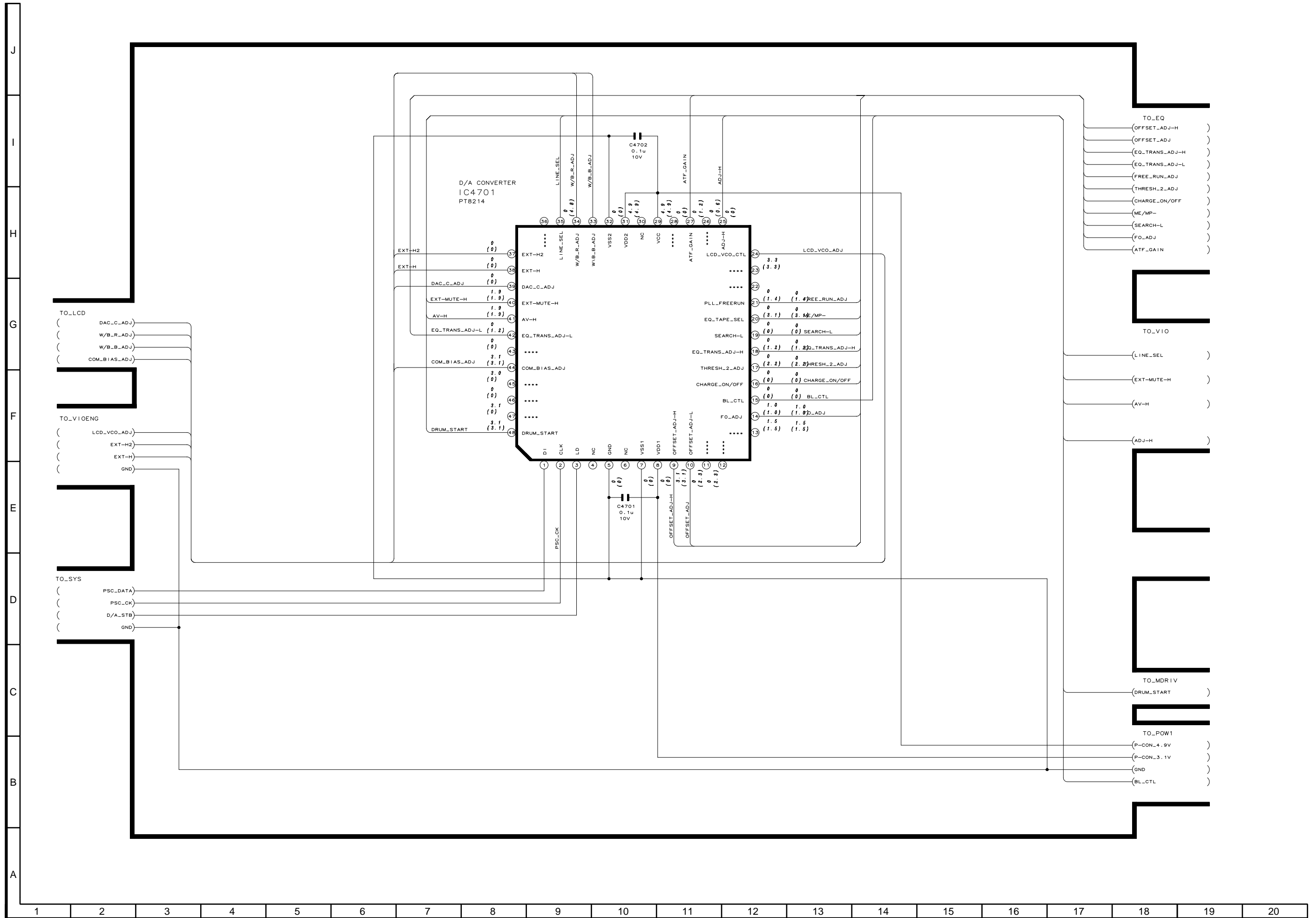
13-20. CAM/CARD MiCON SCHEMATIC DIAGRAM (VL-NZ50S/H/E/W)



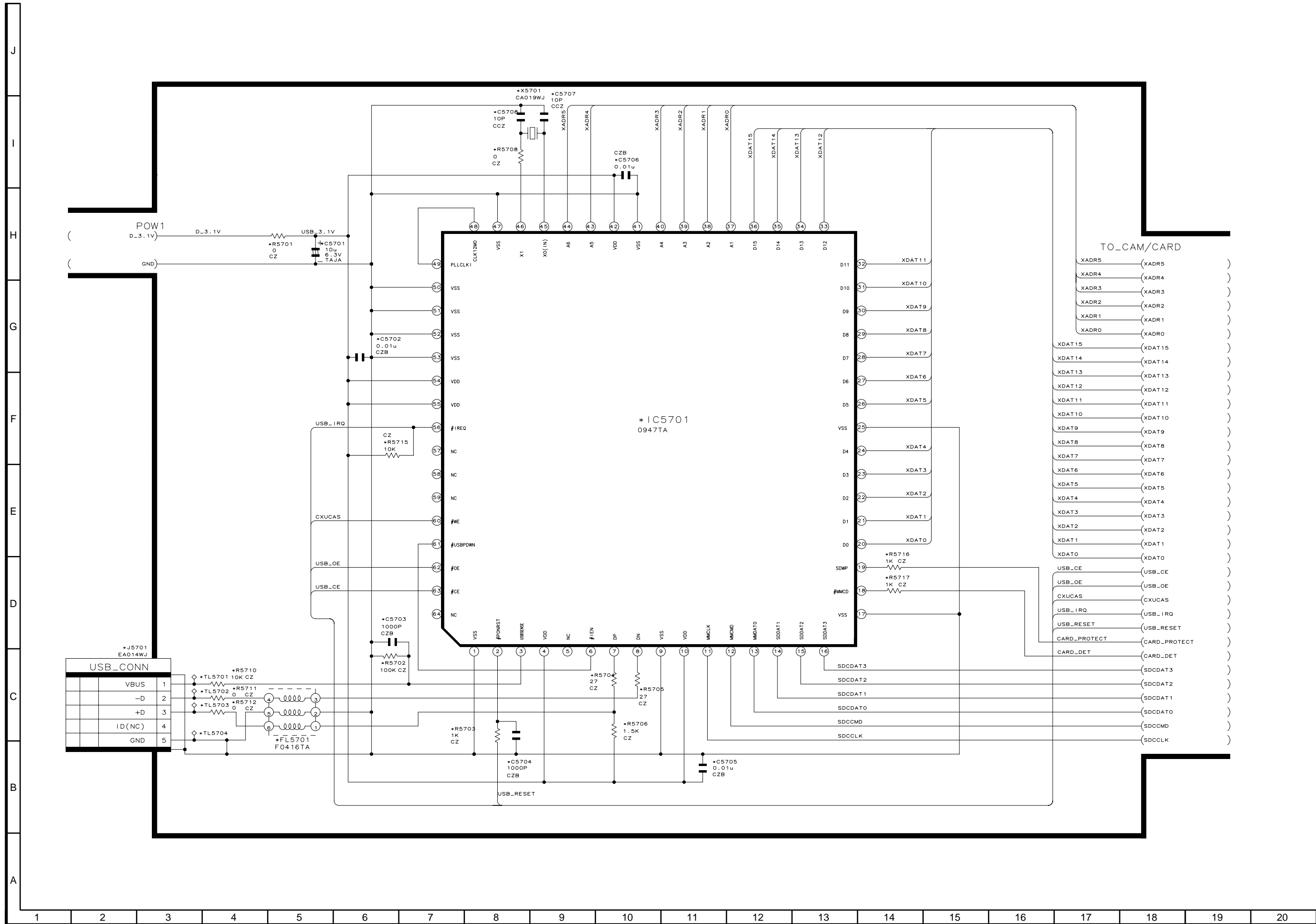
13-21. VIO ENGINE SCHEMATIC DIAGRAM



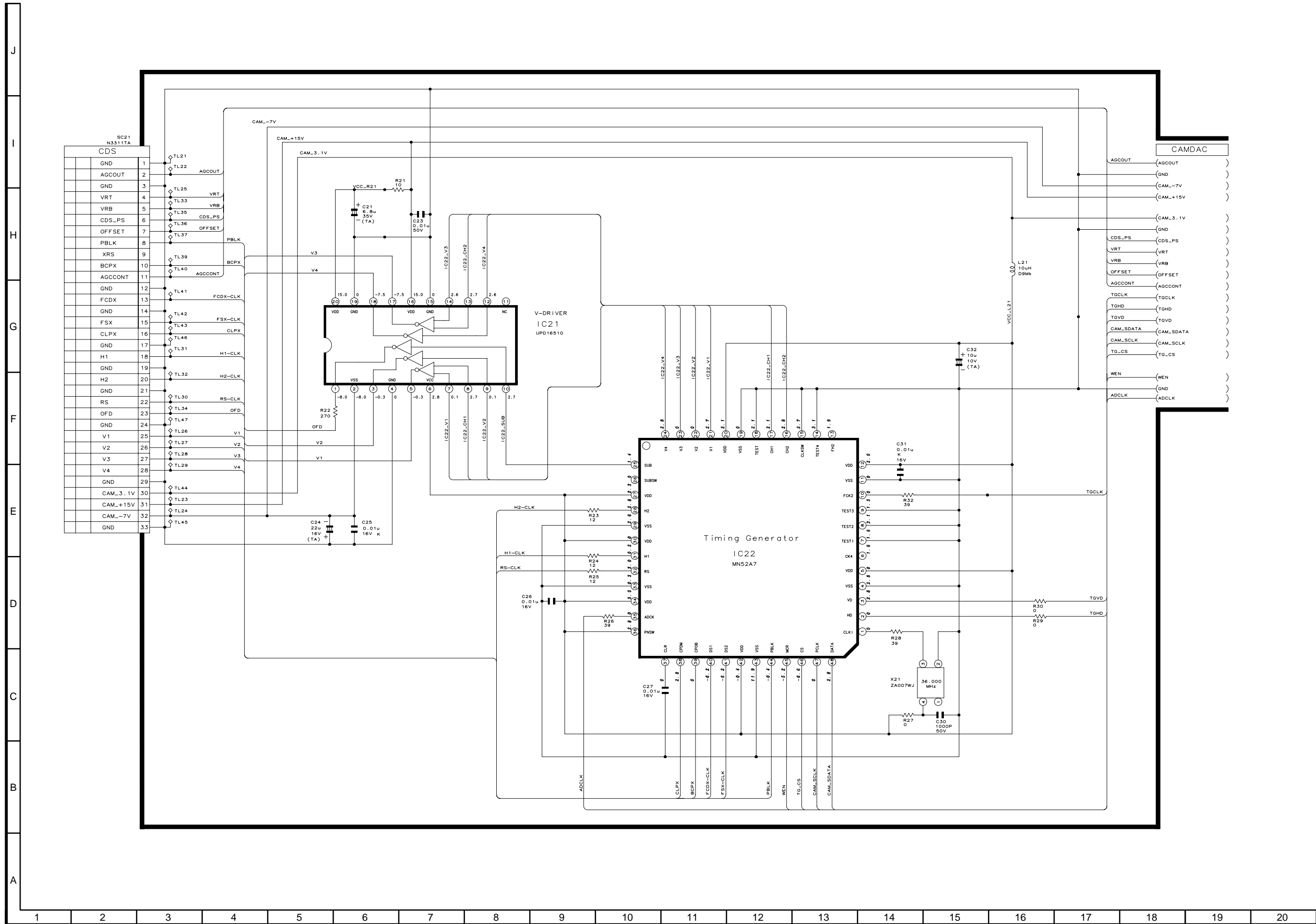
13-22. DAC SCHEMATIC DIAGRAM



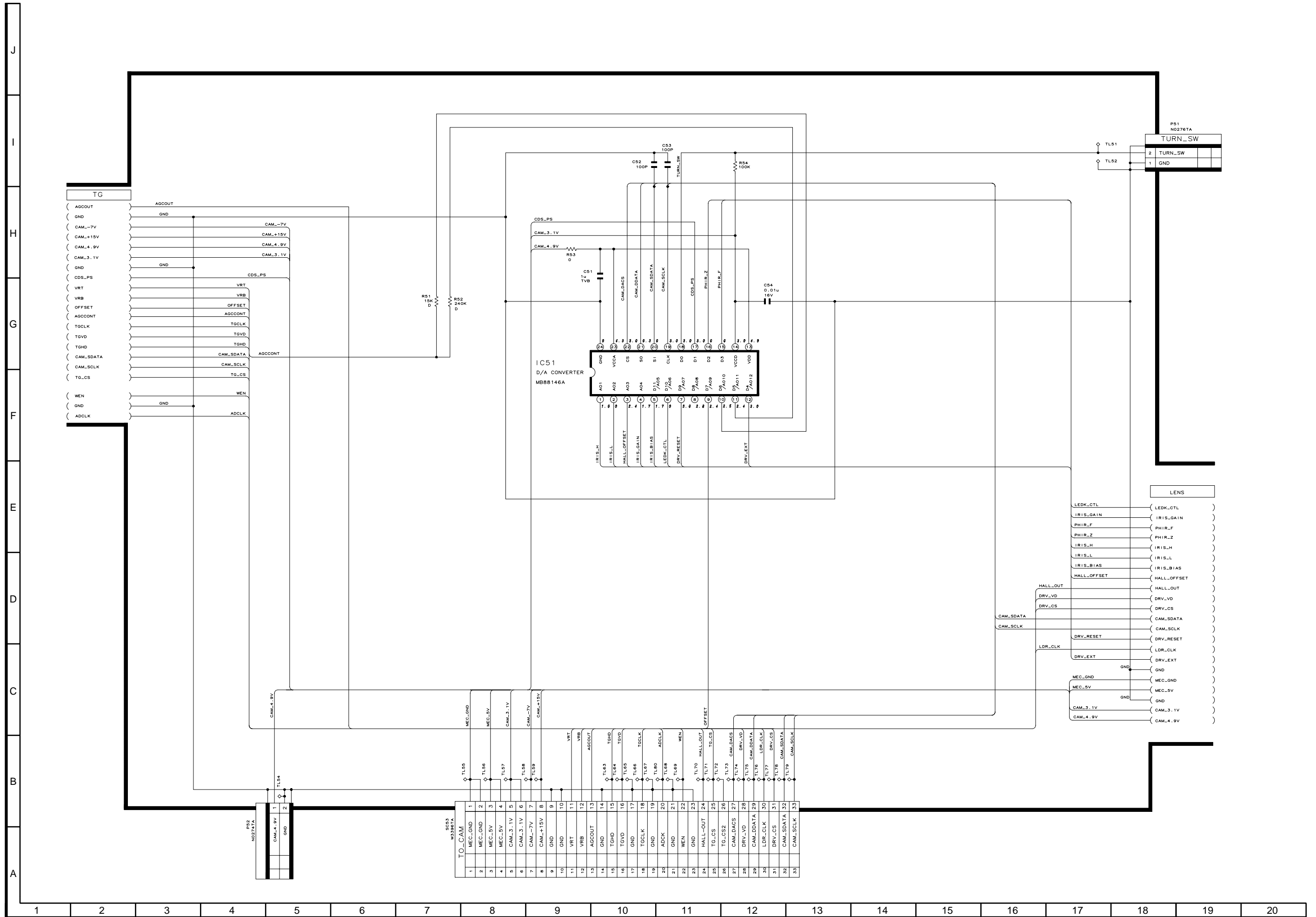
13-23. USB SCHEMATIC DIAGRAM (VL-NZ80H/NZ100S/H/E only)



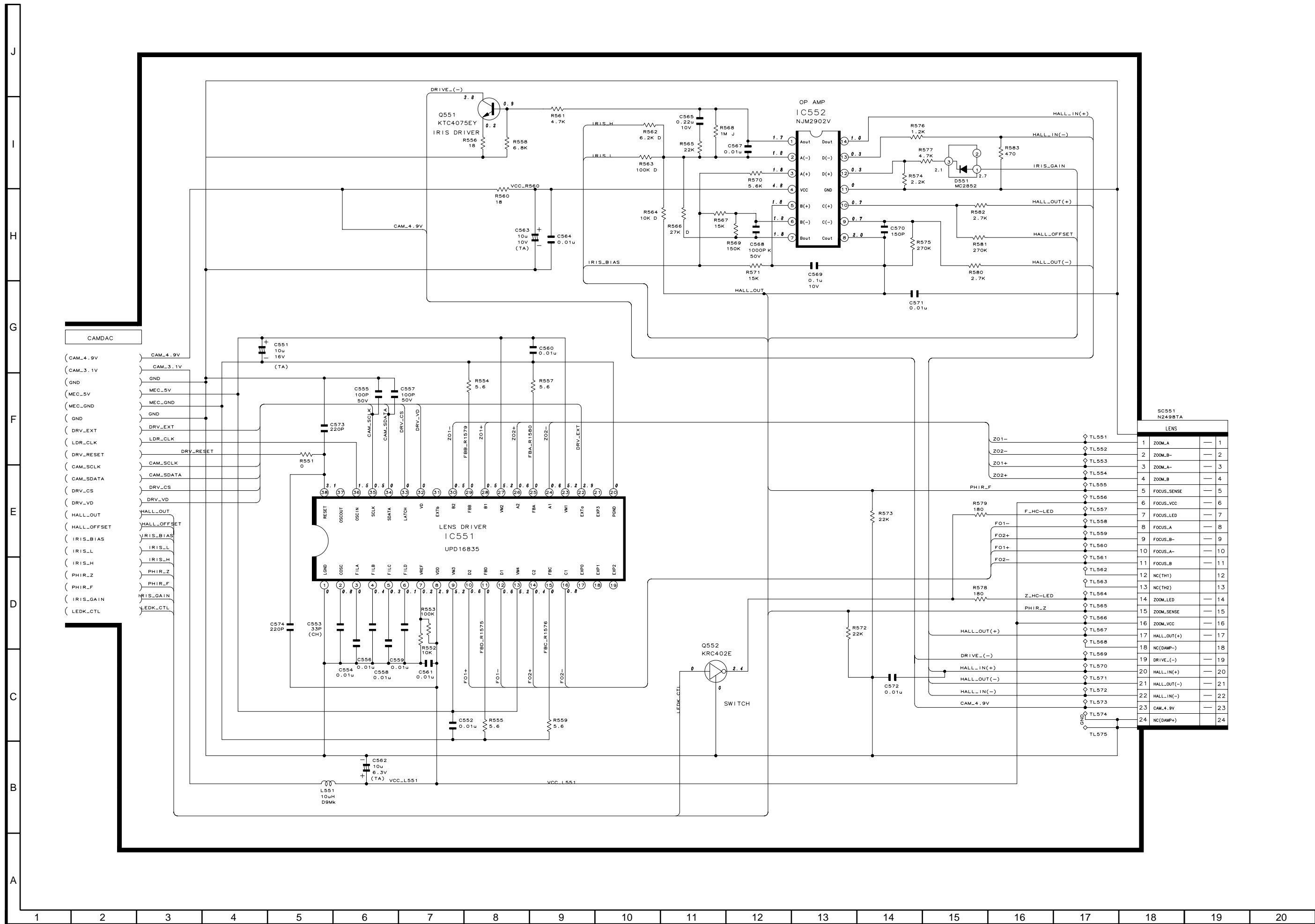
13-24. TG SCHEMATIC DIAGRAM



13-25. CAMERA DAC SCHEMATIC DIAGRAM

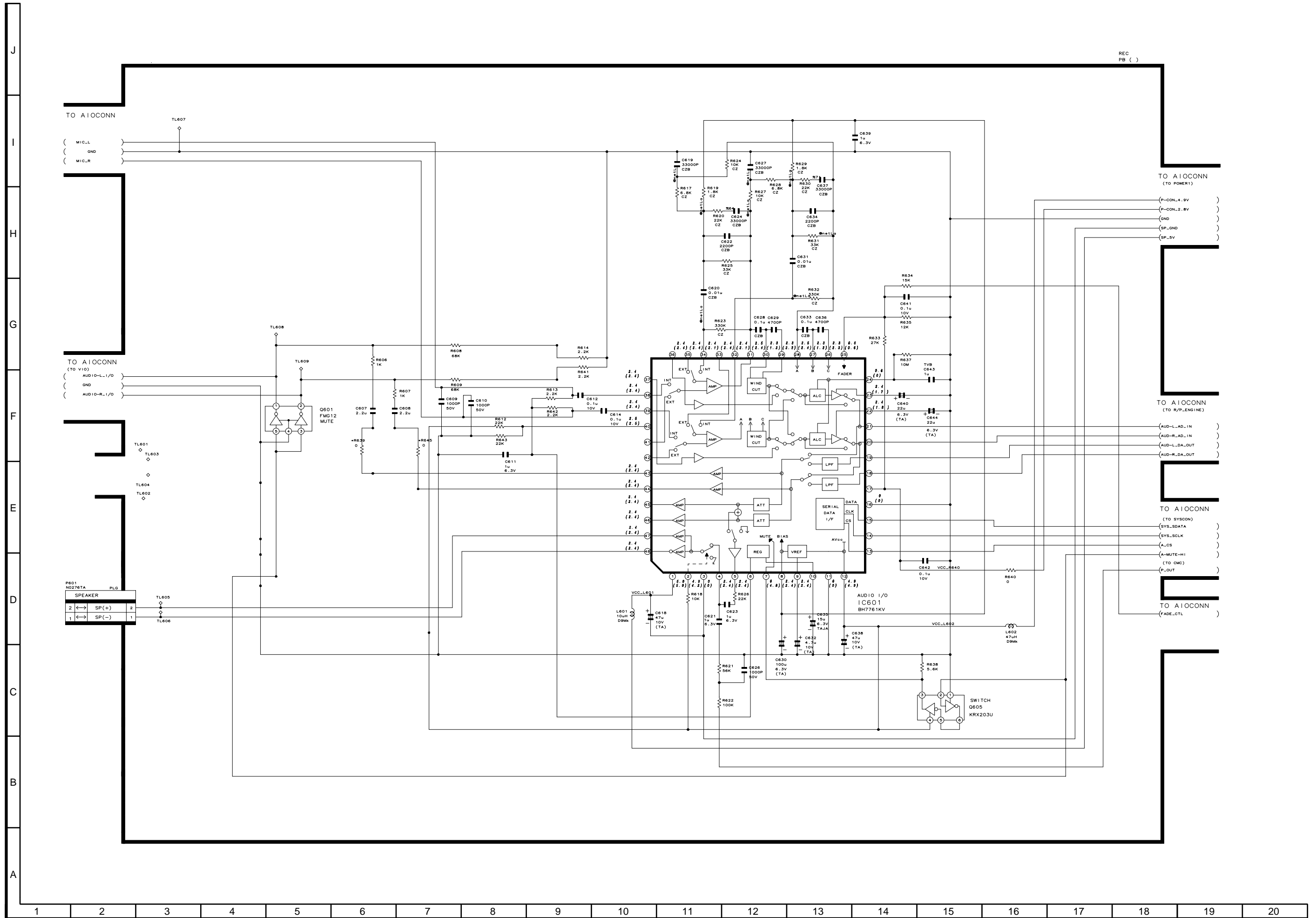


13-26. LENS DRIVE SCHEMATIC DIAGRAM

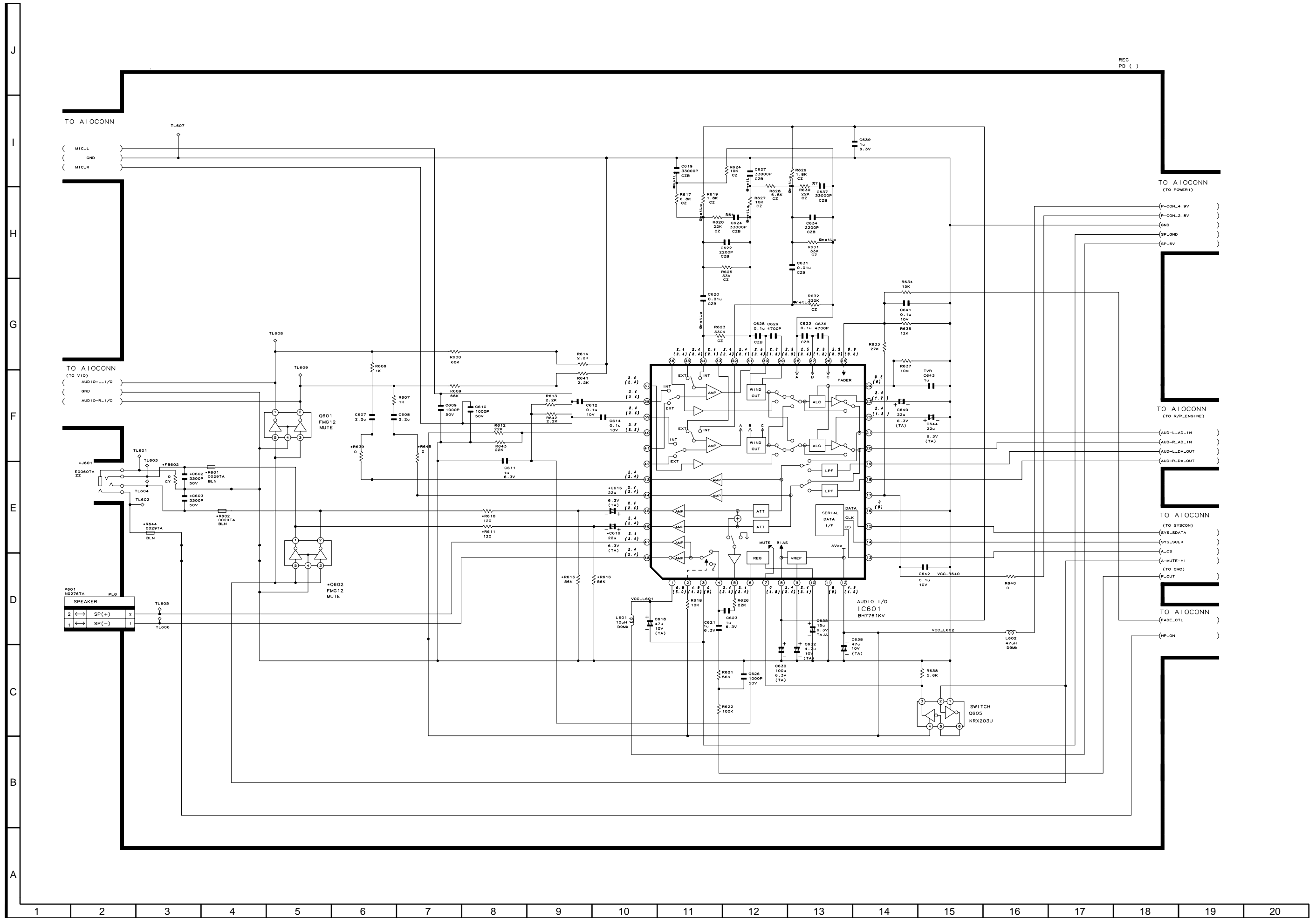


SC551 N2498TA		LENS	
1	ZOOM_A	---	1
2	ZOOM_B	---	2
3	ZOOM_A	---	3
4	ZOOM_B	---	4
5	FOCUS_SENSE	---	5
6	FOCUS_VCC	---	6
7	FOCUS_LED	---	7
8	FOCUS_A	---	8
9	FOCUS_B	---	9
10	FOCUS_A	---	10
11	FOCUS_B	---	11
12	NC (TH1)	---	12
13	NC (TH2)	---	13
14	ZOOM_LED	---	14
15	ZOOM_SENSE	---	15
16	ZOOM_VCC	---	16
17	HALL_OUT(+)	---	17
18	NC (DAMP)	---	18
19	DRIVE_(-)	---	19
20	HALL_IN(+)	---	20
21	HALL_OUT(-)	---	21
22	HALL_IN(-)	---	22
23	CAM_4.9V	---	23
24	NC (DAMP+)	---	24

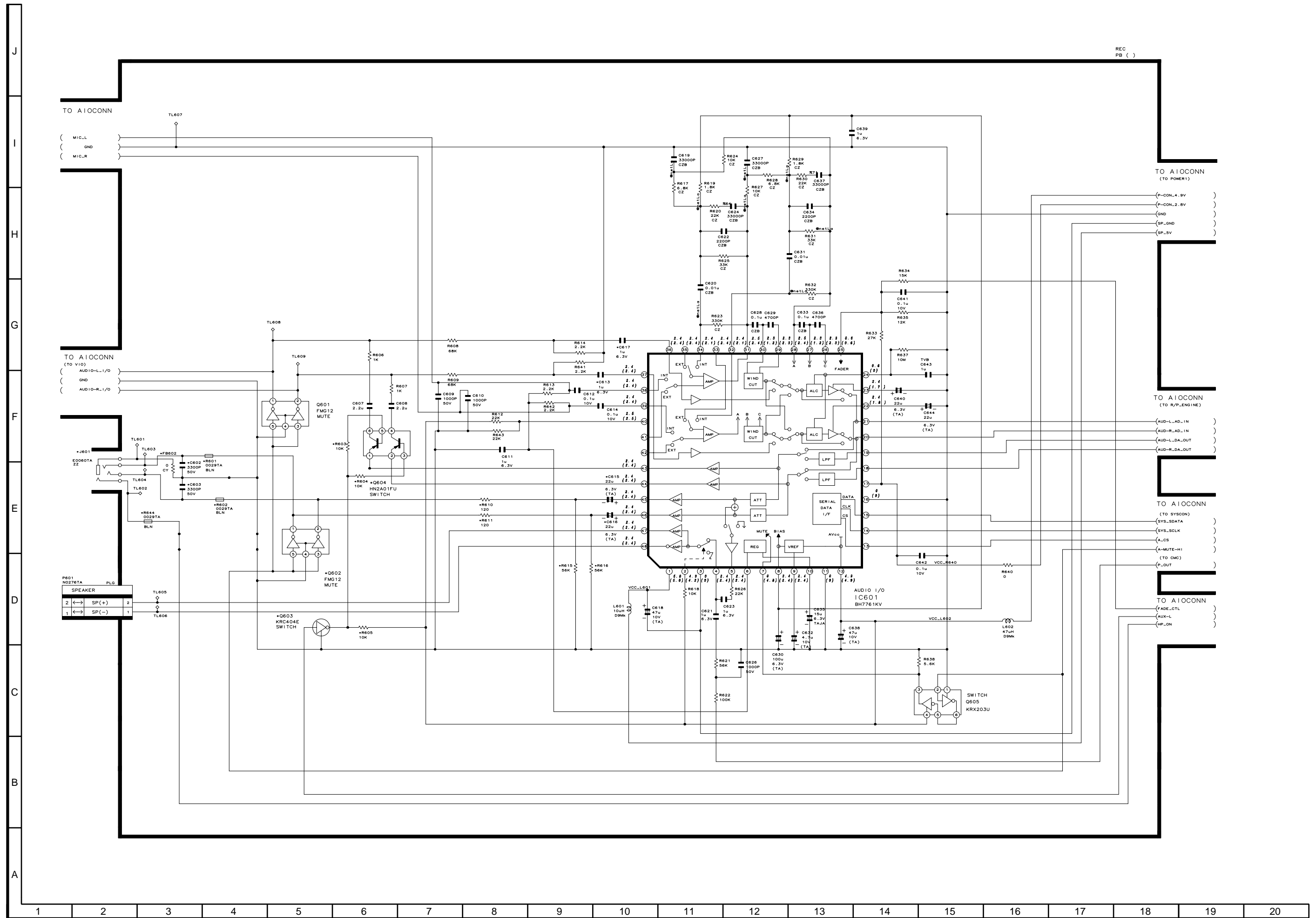
13-27. AUDIO I/O SCHEMATIC DIAGRAM (VL-NZ50S/H/E/W)



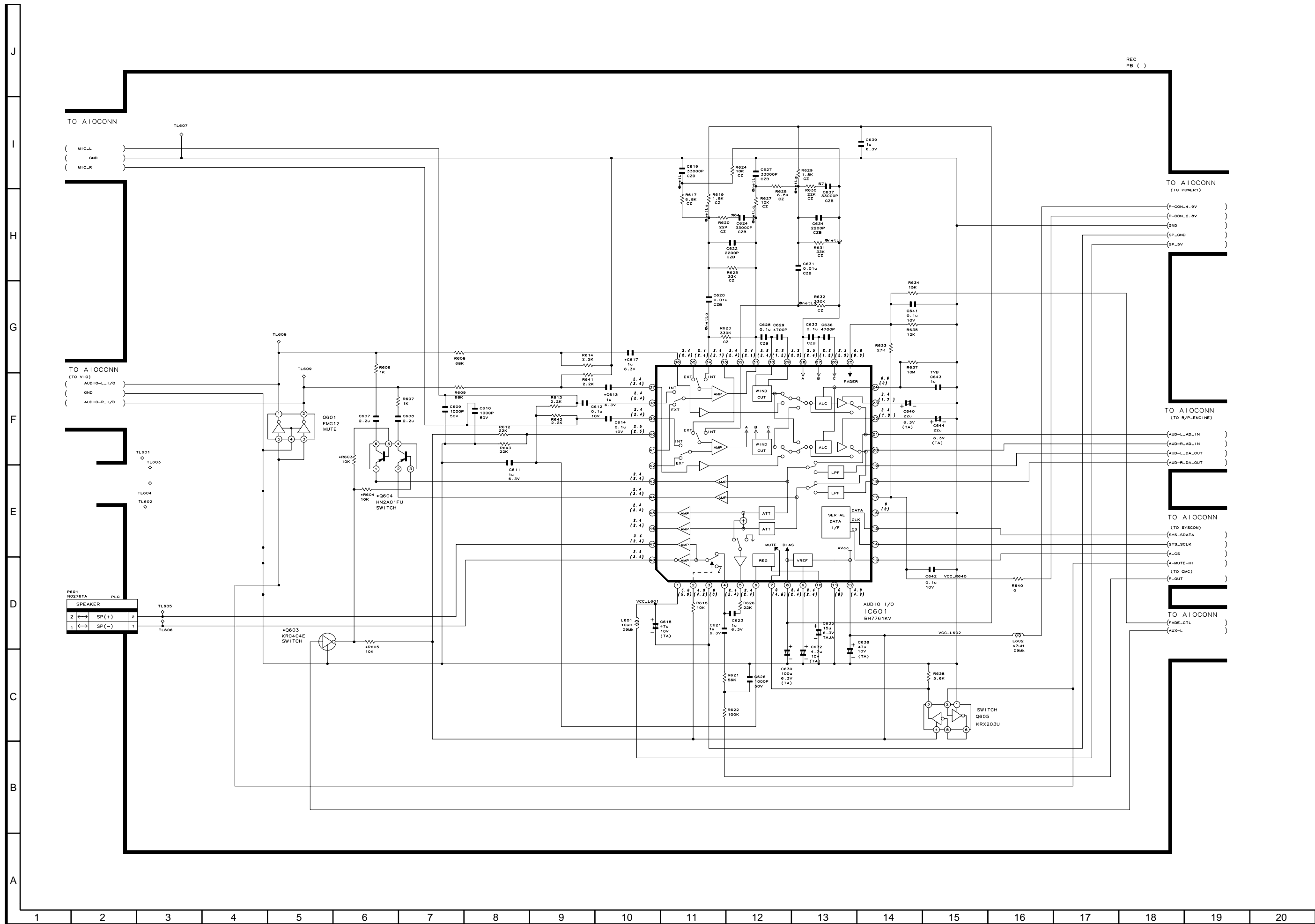
13-28. AUDIO I/O SCHEMATIC DIAGRAM (VL-NZ80H)



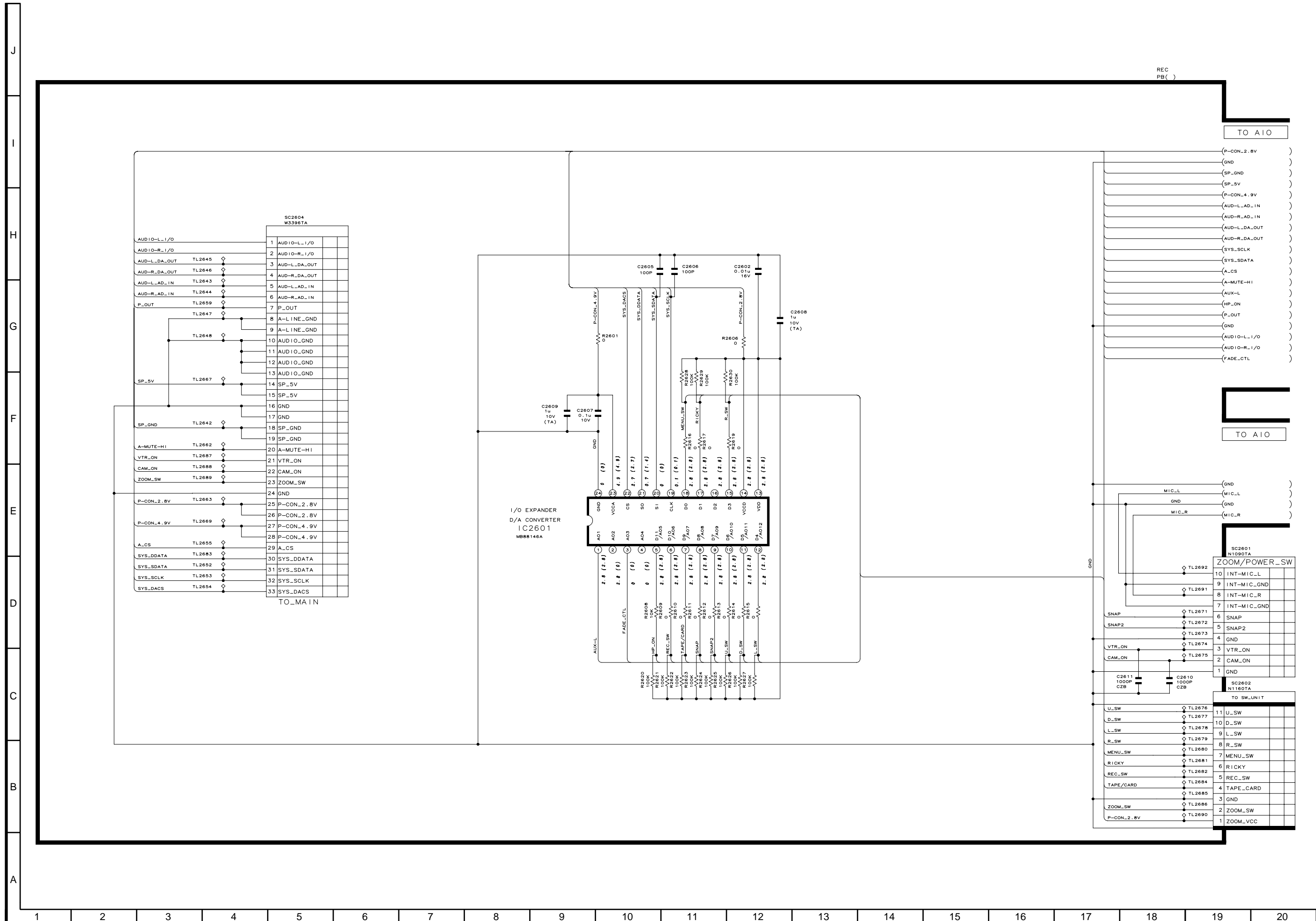
13-29. AUDIO I/O SCHEMATIC DIAGRAM (VL-NZ100S/H)



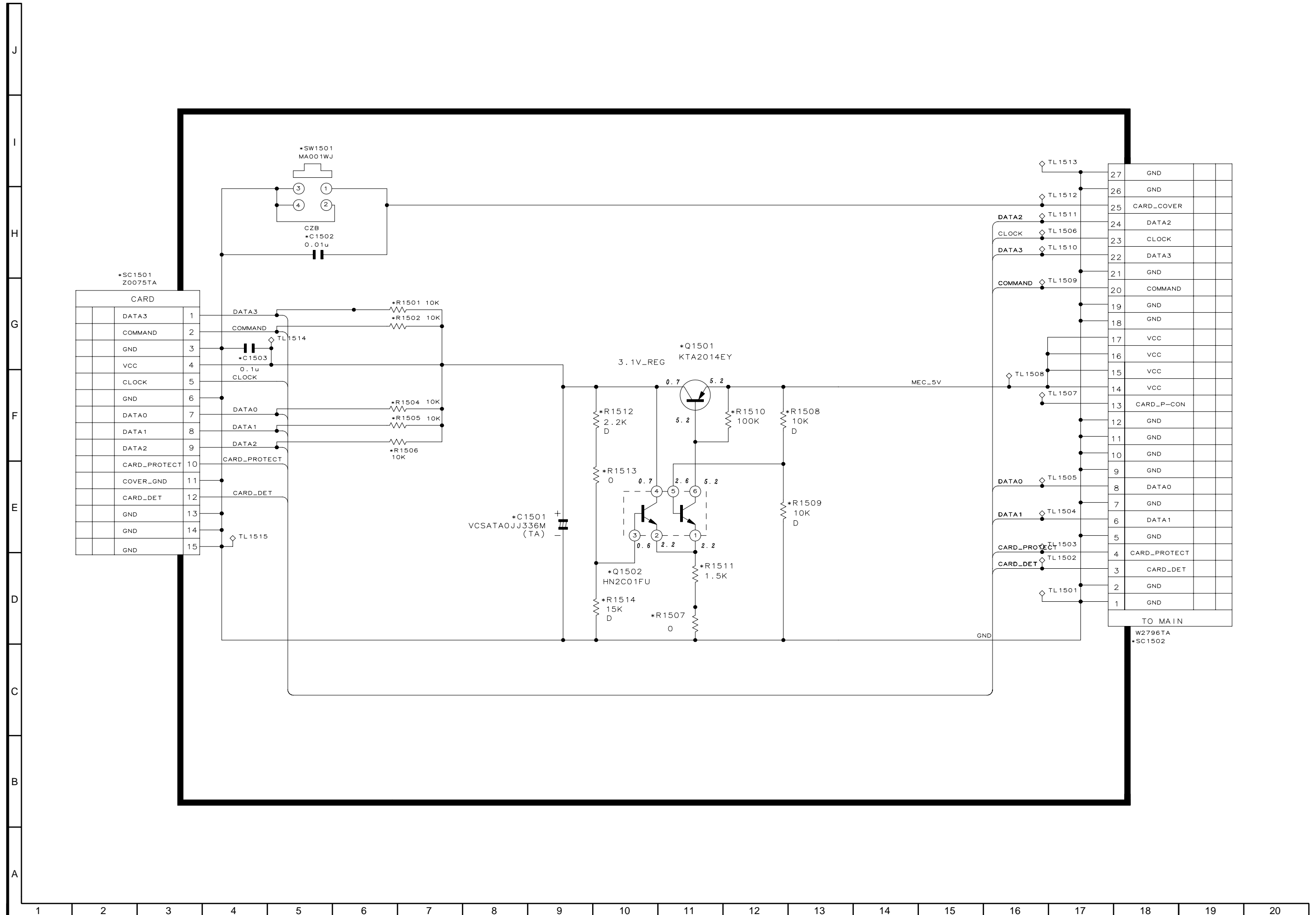
13-30. AUDIO I/O SCHEMATIC DIAGRAM (VL-NZ100E)



13-31. AUDIO I/O CONN SCHEMATIC DIAGRAM

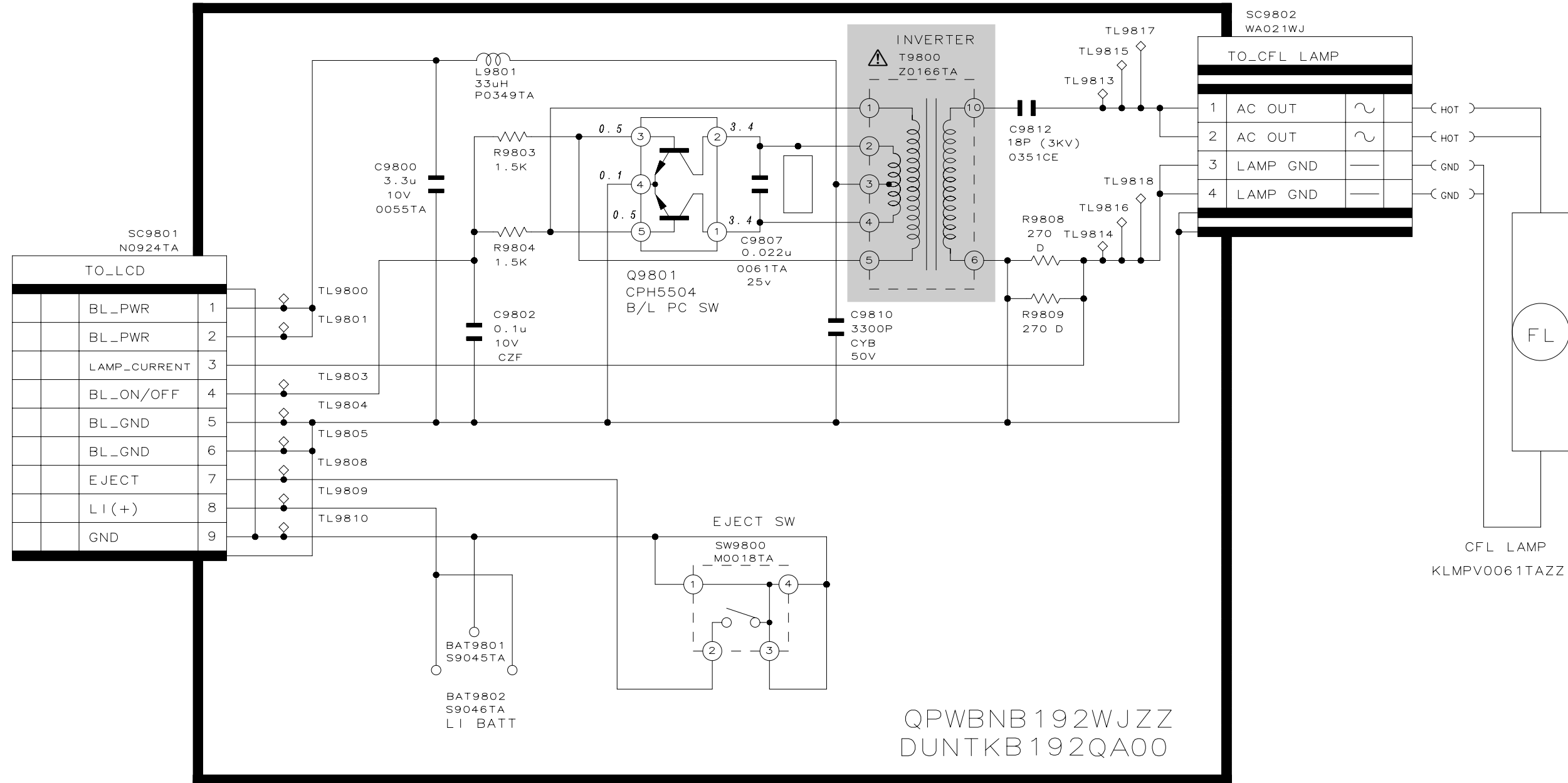


13-32. CARD SCHEMATIC DIAGRAM (VL-NZ80H/NZ100S/H/E only)

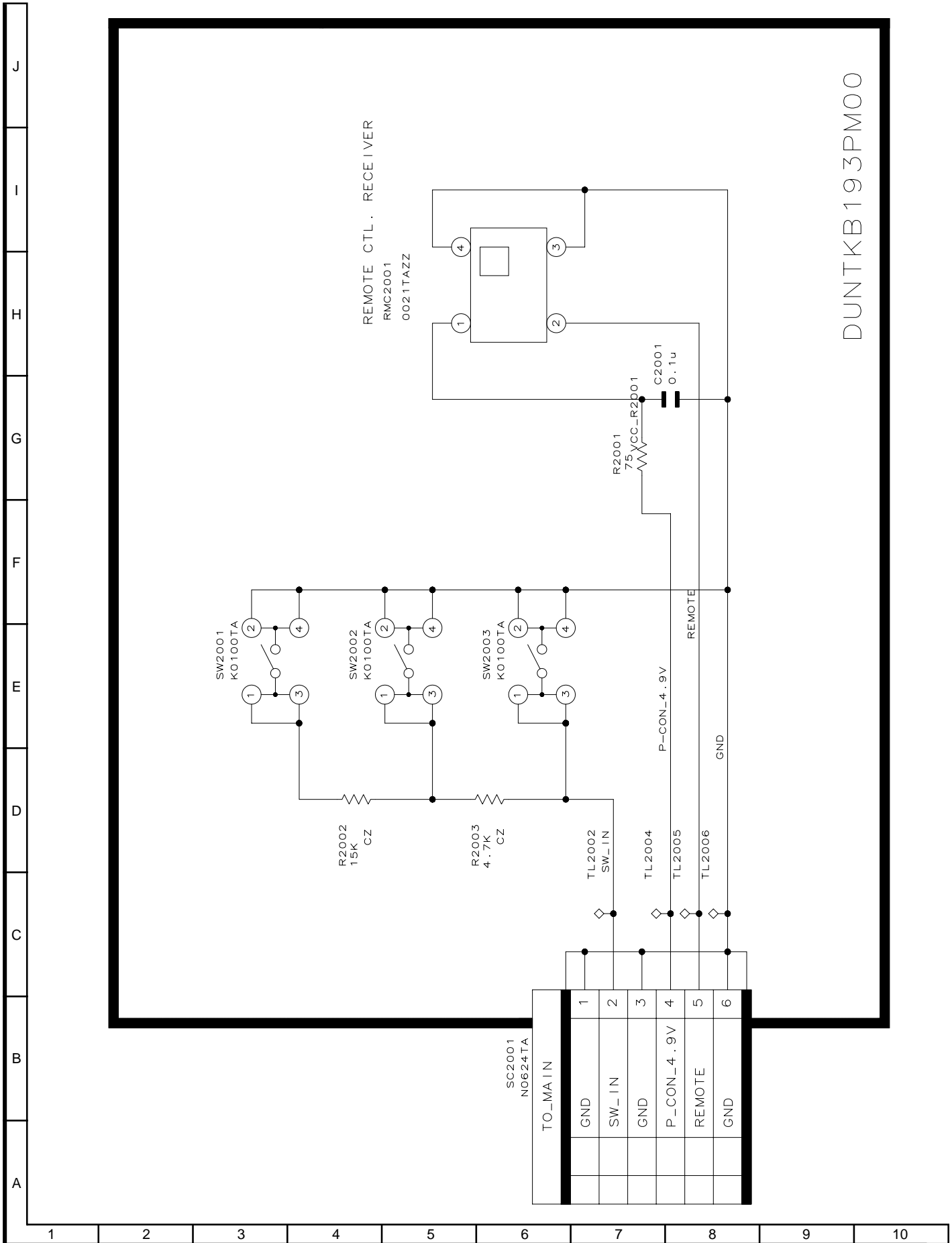


13-33. INVERTER SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

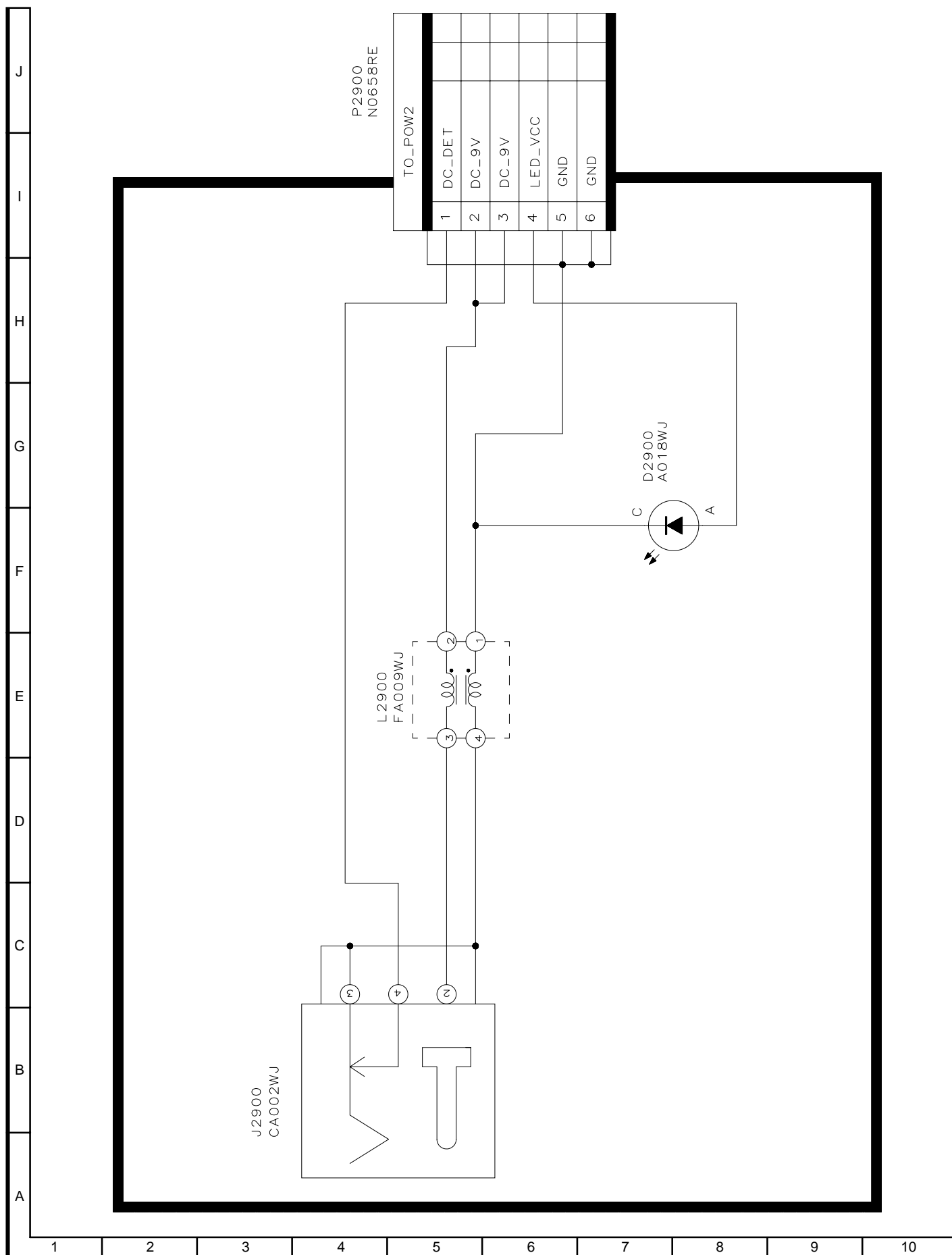


13-34. OPERATION SCHEMATIC DIAGRAM

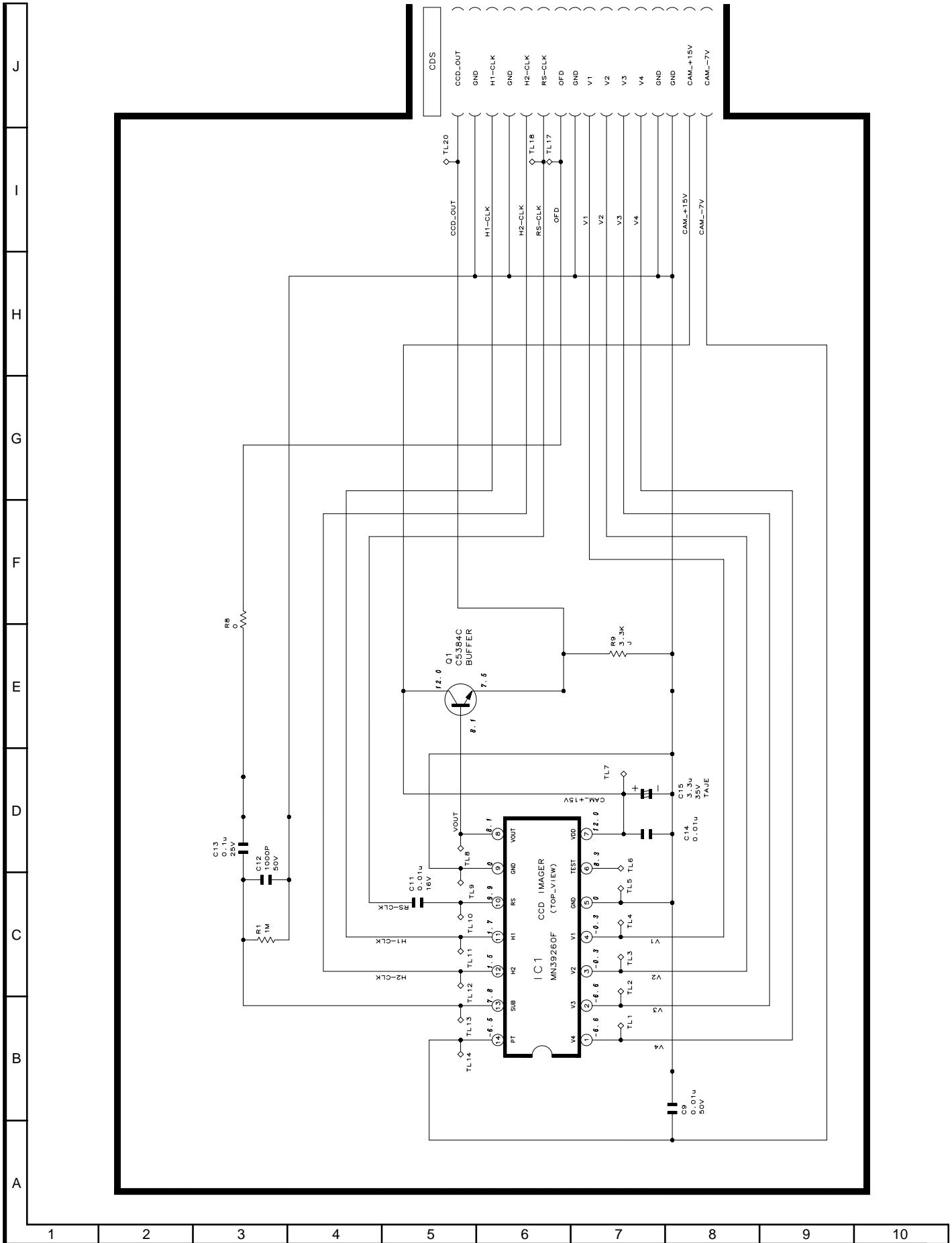


DUNTKB193PM00

13-35. DC JACK SCHEMATIC DIAGRAM

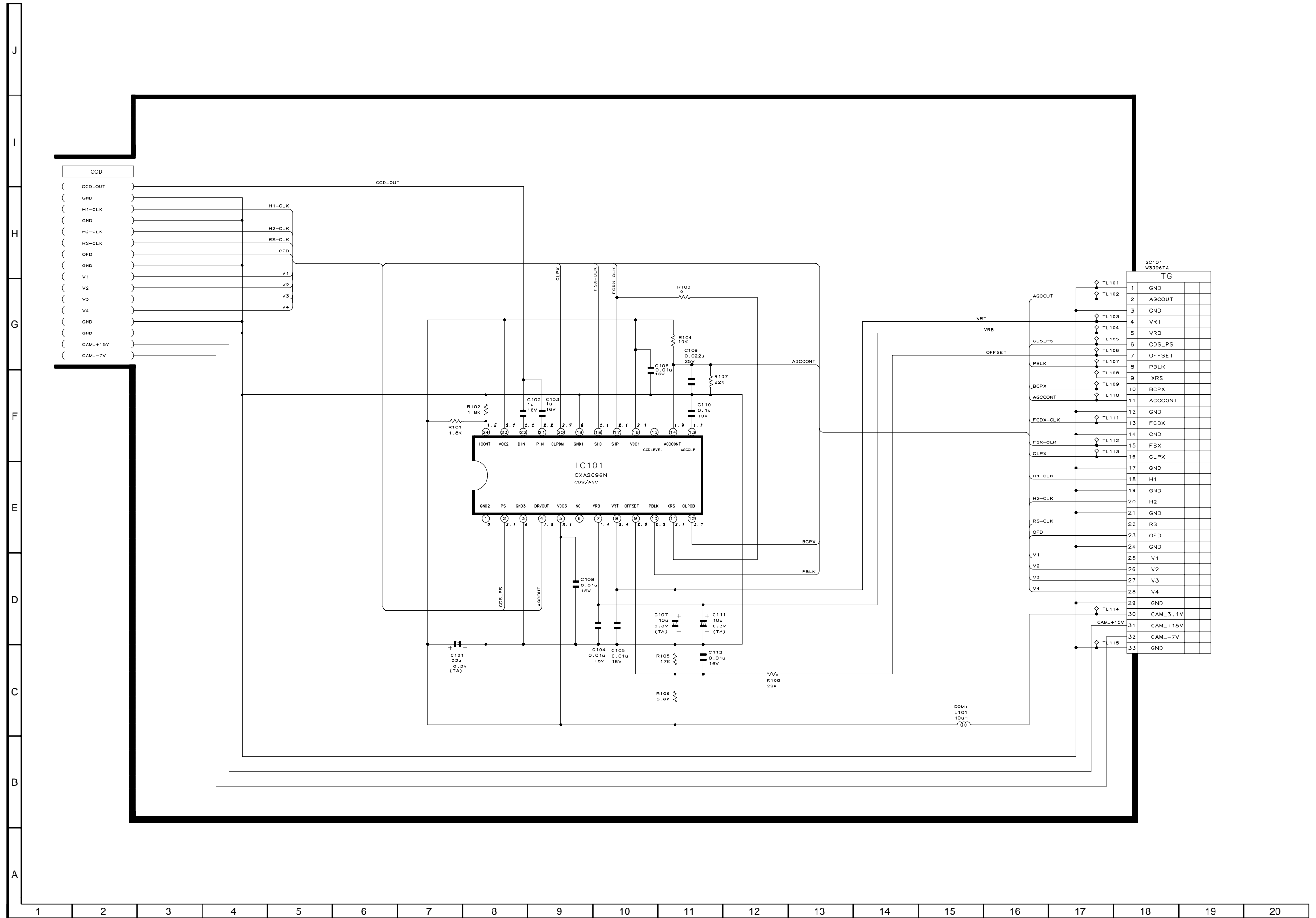


13-36. CCD SCHEMATIC DIAGRAM

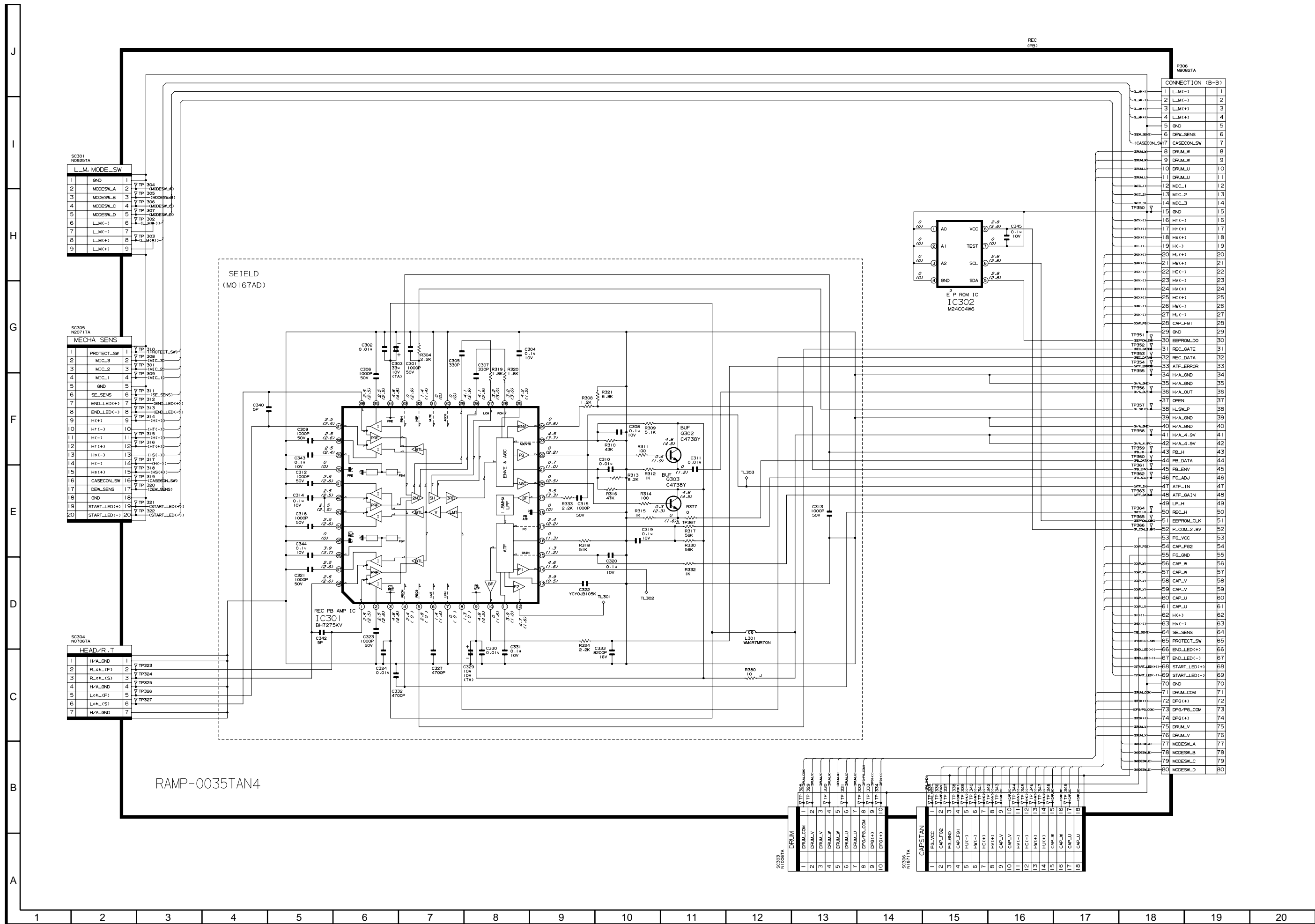


- M E M O -

13-37. CDS SCHEMATIC DIAGRAM



13-38. HEAD AMP SCHEMATIC DIAGRAM



RAMP-0035TAN4

SC303
N0925TA

1	DRUM
2	DRUM_COM
3	DRUM_V
4	DRUM_W
5	DRUM_LV
6	DRUM_LU
7	DRUM_U
8	DFG_PG_COM
9	DFG_PG_V
10	DFG_PG_W

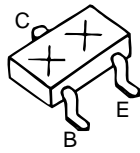
SC305
N0711TA

1	FLG_VCC
2	CAP_F02
3	FLG_GND
4	CAP_F01
5	HV(-)
6	HV(+)
7	HV(-)
8	HV(+)
9	CAP_V
10	CAP_U
11	HV(-)
12	HV(+)
13	HV(-)
14	HV(+)
15	CAP_W
16	CAP_X
17	CAP_Y
18	CAP_Z

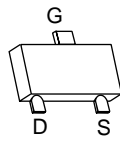
CONNECTION (B-B)

1	LM(-)	1
2	LM(+)	2
3	LM(+)	3
4	LM(+)	4
5	GND	5
6	DEV_SENS	6
7	CASECON_SW	7
8	DRUM_W	8
9	DRUM_V	9
10	DRUM_LU	10
11	DRUM_LV	11
12	MIC_1	12
13	MIC_2	13
14	MIC_3	14
15	GND	15
16	HV(-)	16
17	HV(+)	17
18	HV(+)	18
19	HV(-)	19
20	HV(+)	20
21	HV(+)	21
22	HV(-)	22
23	HV(-)	23
24	HV(+)	24
25	HV(+)	25
26	HV(-)	26
27	HV(-)	27
28	CAP_F01	28
29	GND	29
30	EEPROM_LDO	30
31	REC_GATE	31
32	REC_DATA	32
33	ATF_ERROR	33
34	HVA_GND	34
35	HVA_GND	35
36	HVA_OUT	36
37	OPEN	37
38	HLSWLP	38
39	HVA_GND	39
40	HVA_GND	40
41	HVA_4.9V	41
42	HVA_4.9V	42
43	PB_H	43
44	PB_DATA	44
45	PB_ENV	45
46	FD_ADJ	46
47	ATF_IN	47
48	ATF_GAIN	48
49	LP_H	49
50	REC_H	50
51	EEPROM_CLK	51
52	P_COM2.8V	52
53	FLG_VCC	53
54	CAP_F02	54
55	FLG_GND	55
56	CAP_W	56
57	CAP_X	57
58	CAP_Y	58
59	CAP_Z	59
60	CAP_U	60
61	CAP_V	61
62	HV(+)	62
63	HV(-)	63
64	SE_SENS	64
65	PROTECT_SW	65
66	END_LED(+)	66
67	END_LED(-)	67
68	START_LED(+)	68
69	START_LED(-)	69
70	GND	70
71	DRUM_COM	71
72	DFG(+)	72
73	DFG_PG_COM	73
74	DFG(+)	74
75	DRUM_V	75
76	DRUM_LV	76
77	MODESW_A	77
78	MODESW_B	78
79	MODESW_C	79
80	MODESW_D	80

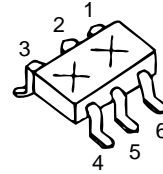
14. SEMICONDUCTOR LEAD IDENTIFICATION



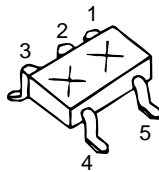
2SC4738Y KRC402E
 FMMT717 KRC404E
 FMMT619 KTA2014EY
 2SC5384C KTC4075EY
 2SC4213B RT1N144U
 2SC5376B



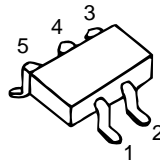
3LN01S
 3LP01S



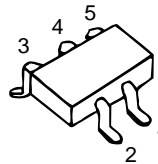
HN2A01FU RN4986
 HN2C01FU MM1510XN
 XP05534 MM1503XN
 KRX203U
 KTX101UY



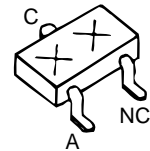
2SC4944Y TCSZ04U
 TA75S01F
 S80937AN
 S817B28C



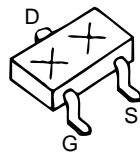
CPH5504



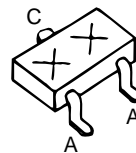
FMG12



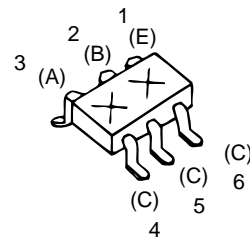
MC2852



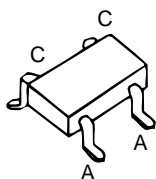
NDS332P
 NDS355AN



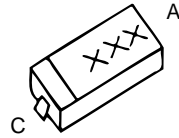
MA132WK
 KDR732



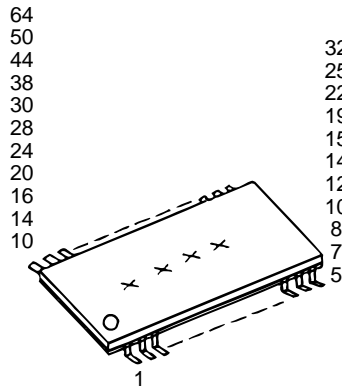
CPH6702



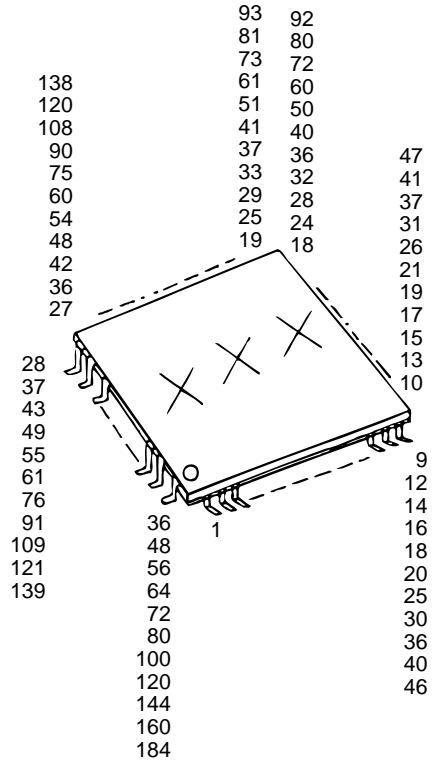
MA4S159



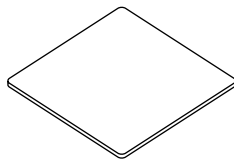
KV1812K HVU362
EX1394CE
HVC359TR
HVU359TR



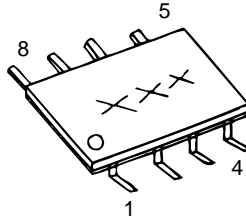
UPD16835 ADC08351
NJM2902V CXA2096N
LV4051AT PCM3008
MB88146A IX0940TA
MM1323XV



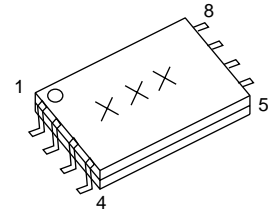
BH7277KV CXD2489R
MB3881++ LB11990W
PT8214 BH7761KV
IX0947TA ADS933Y



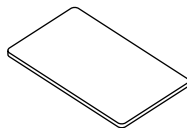
IX0850TA
IX0809TA
IXA149WJ
IXA182WJ
IXA183WJ
IXA185WJ



TLC2940
BR24C32F



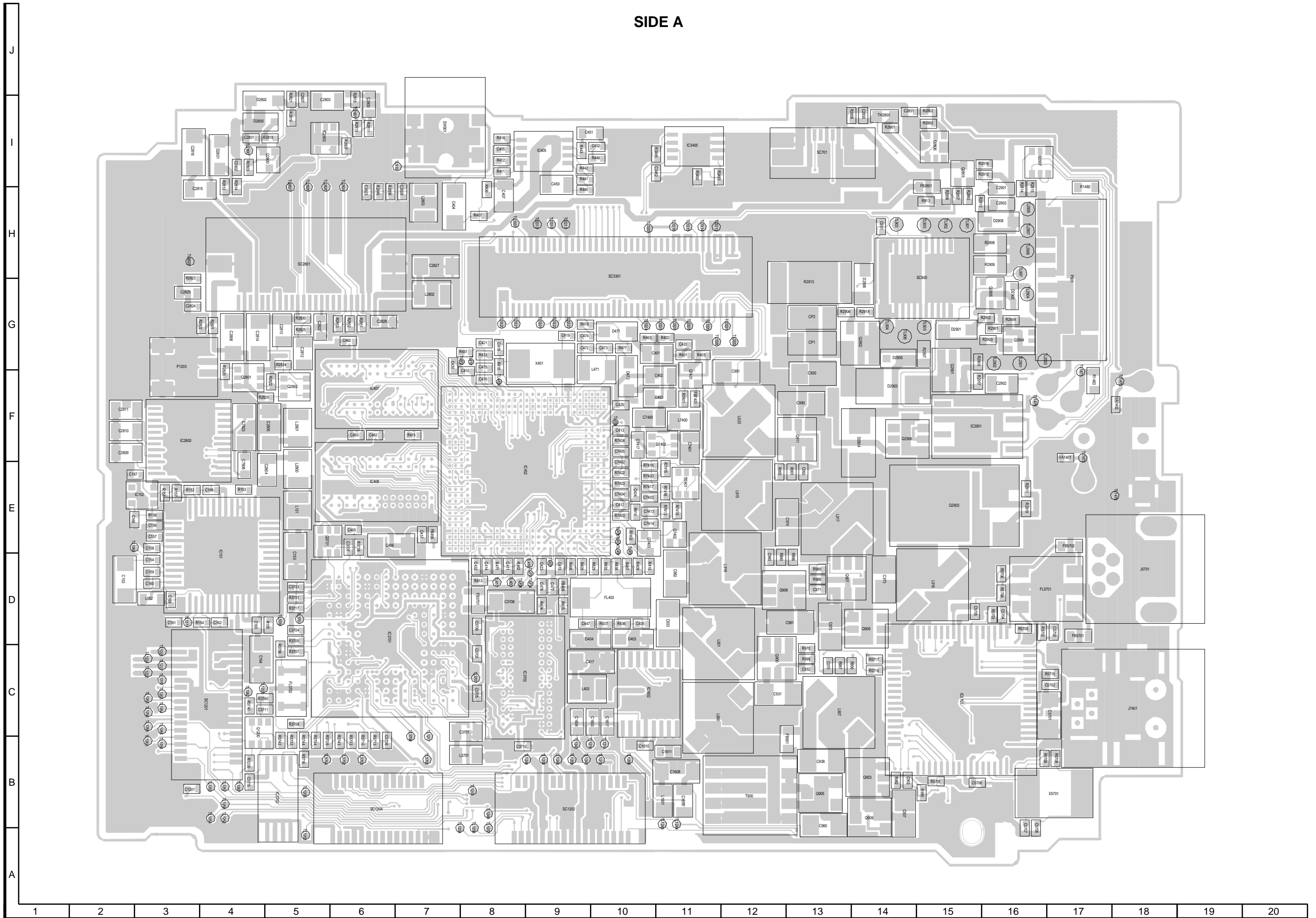
RS5C313/
NJU7015R
NJM2143R
SN2G53CT



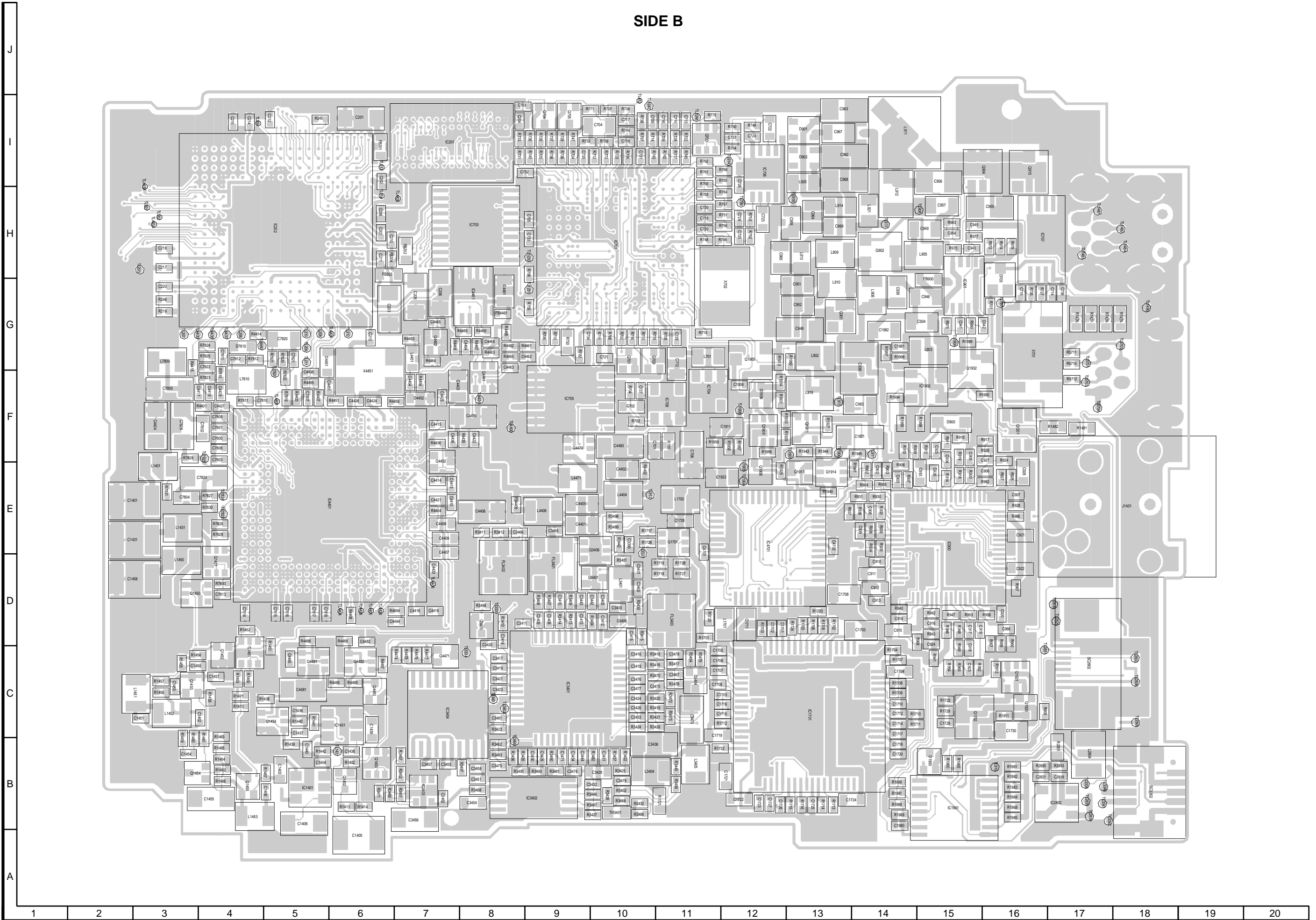
IXA193WJ

15. PRINTED WIRING BOARD ASSEMBLIES MAIN PWB

SIDE A

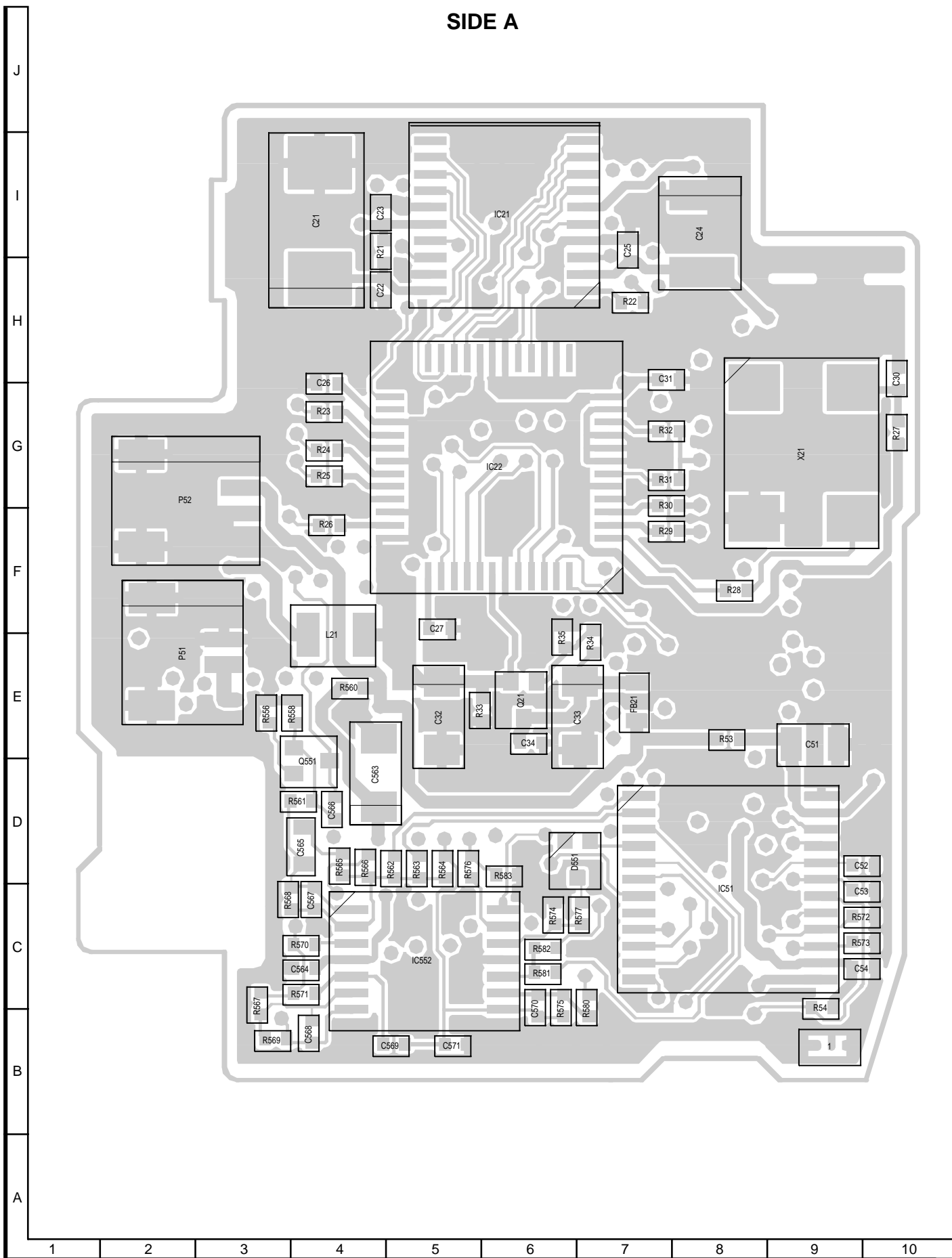


SIDE B

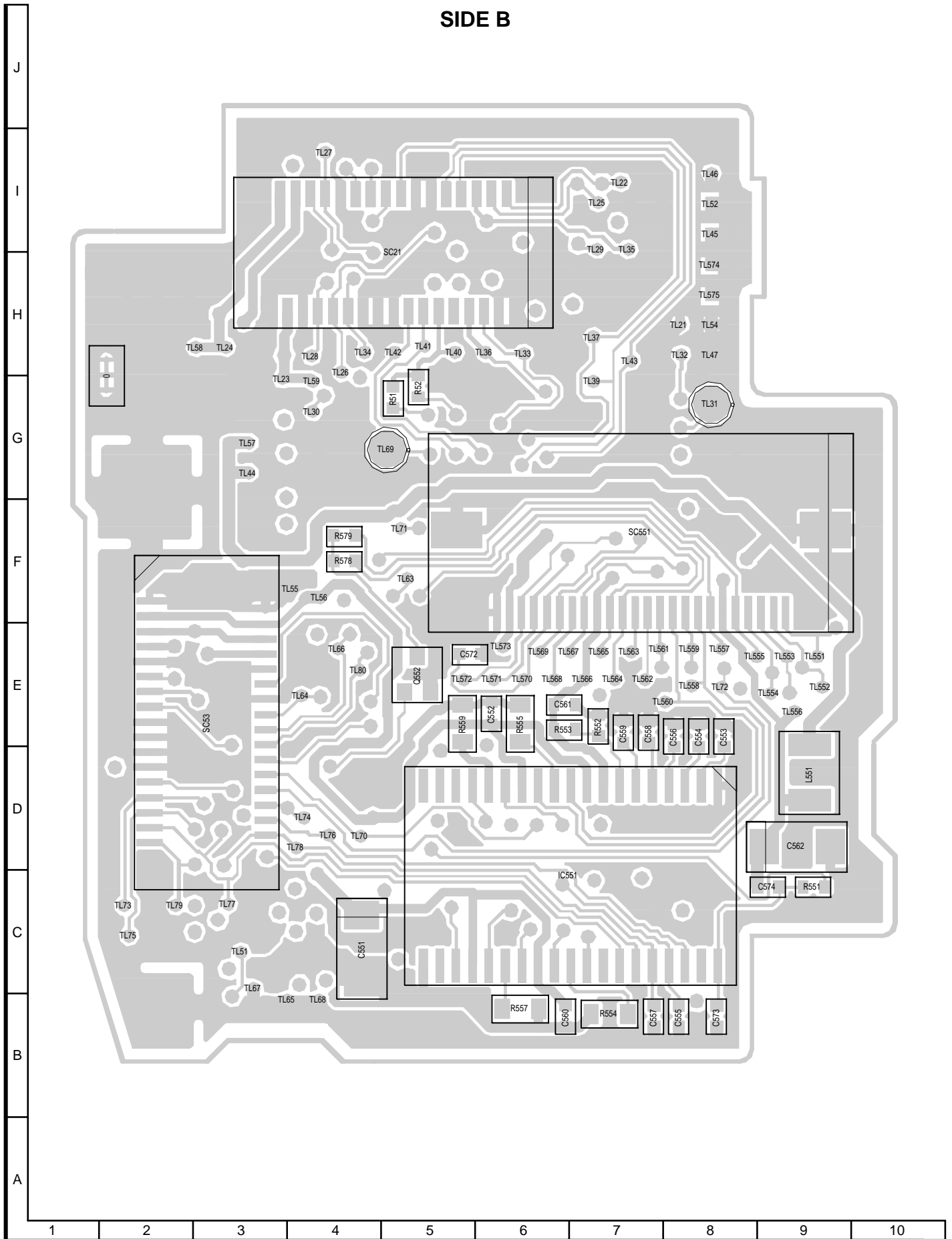


CAMERA HEAD PWB

SIDE A

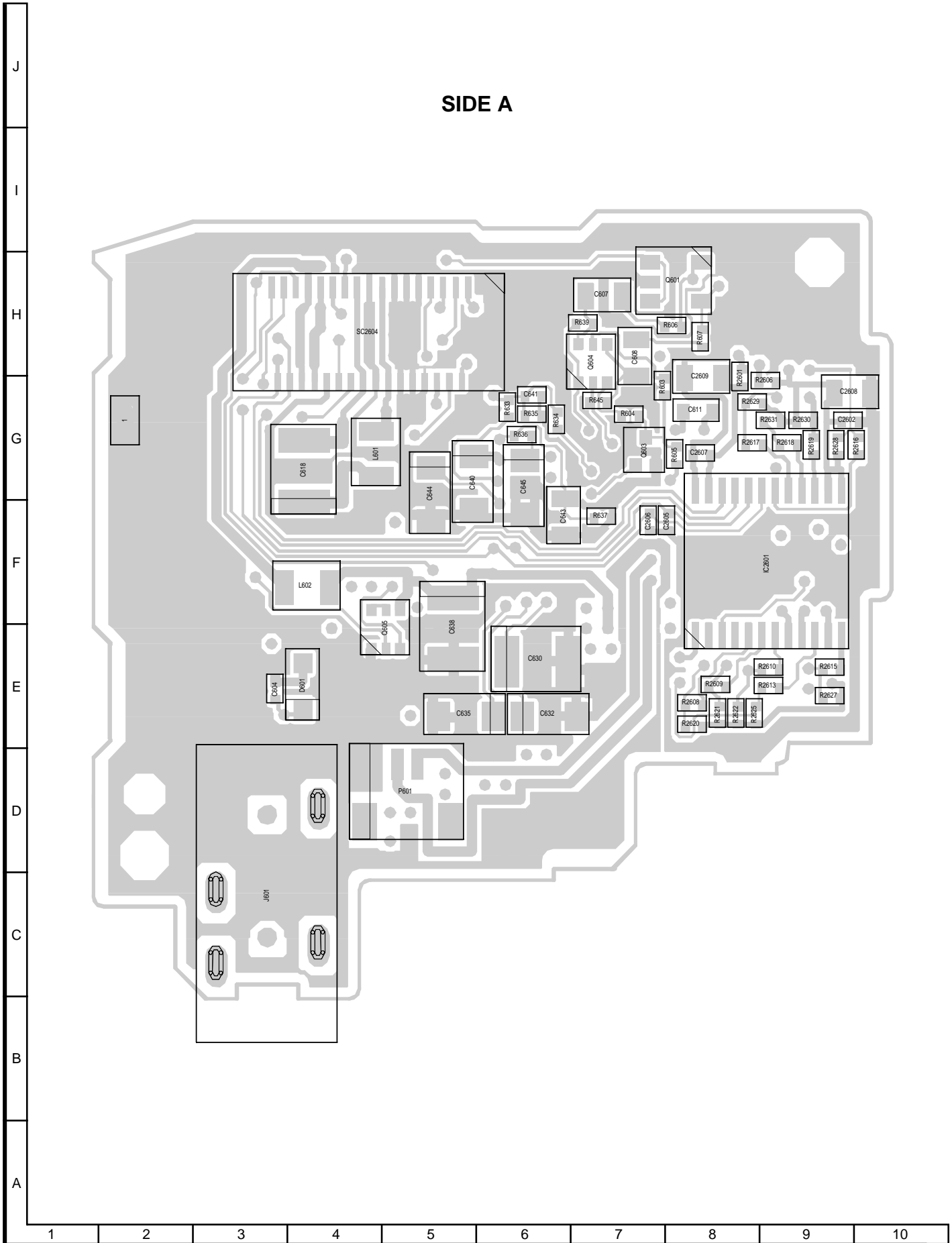


SIDE B

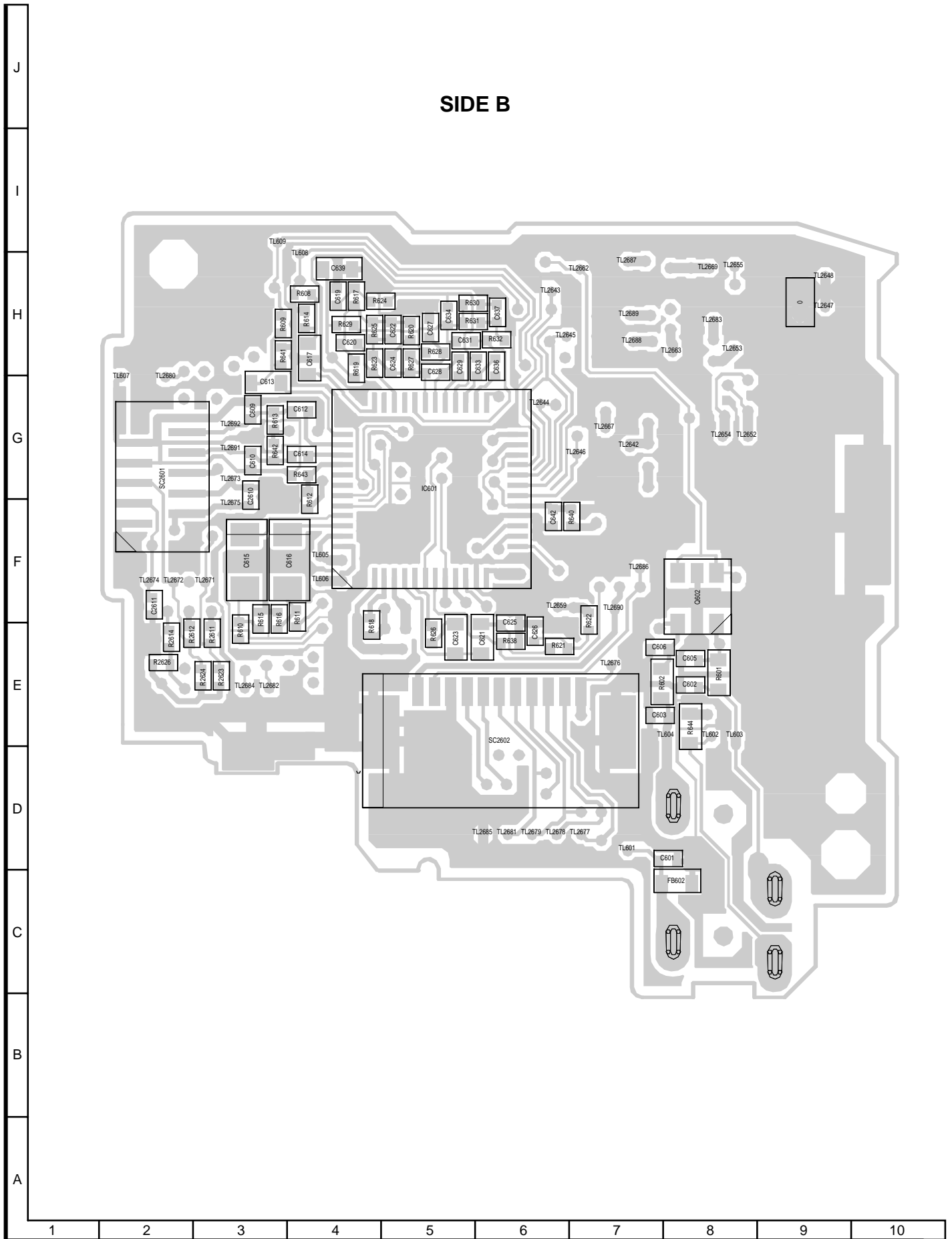


AUDIO I/O PWB

SIDE A

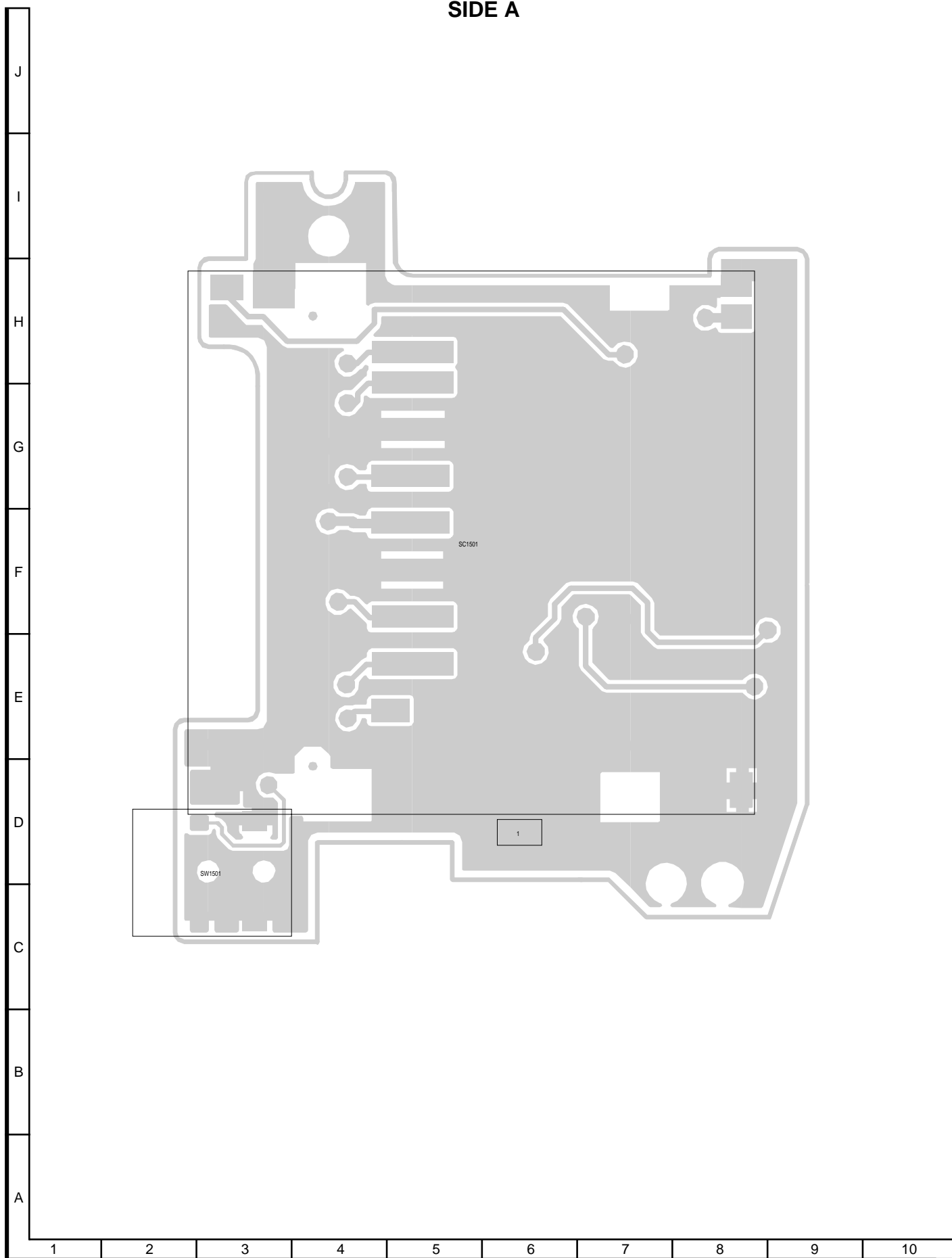


SIDE B

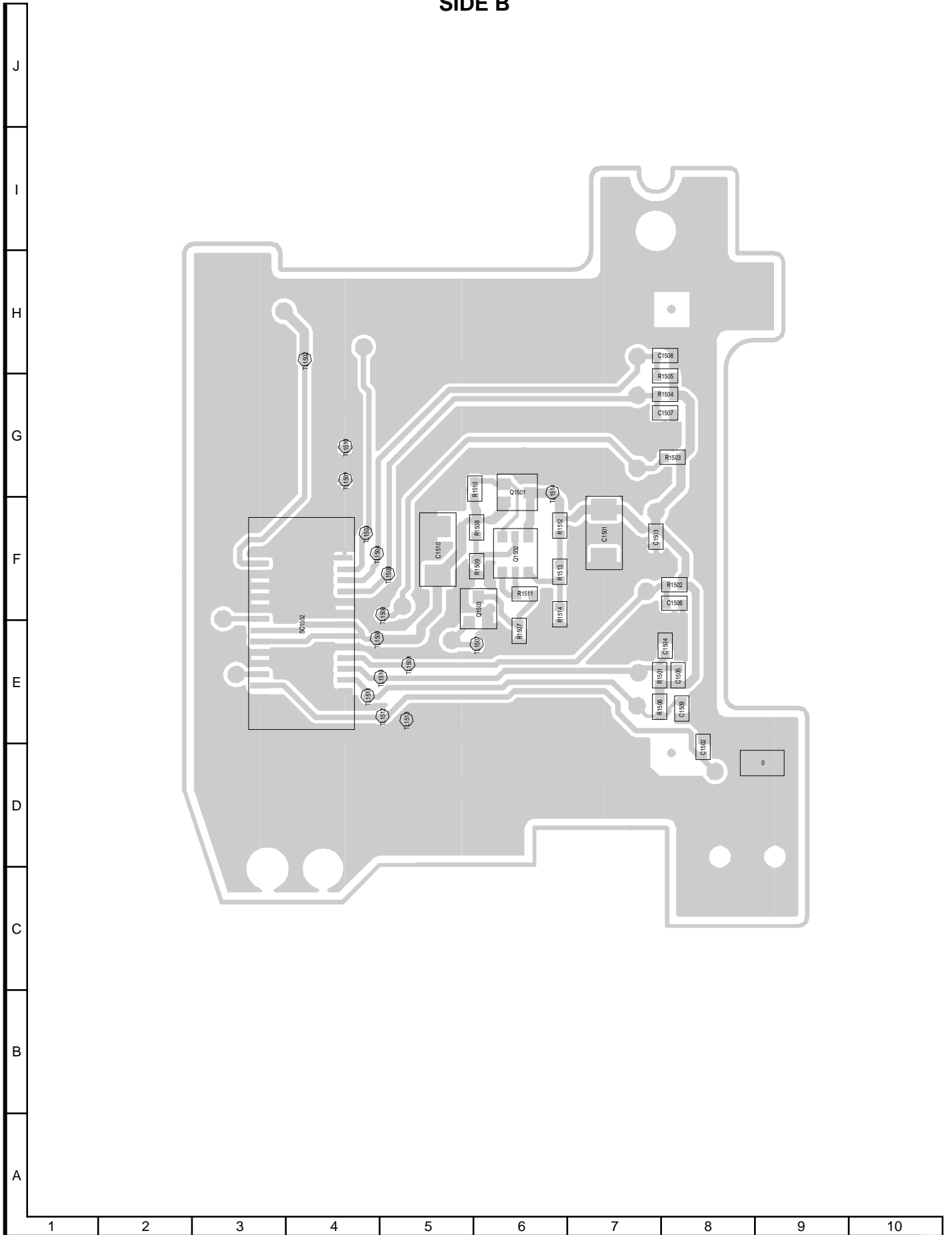


CARD PWB

SIDE A

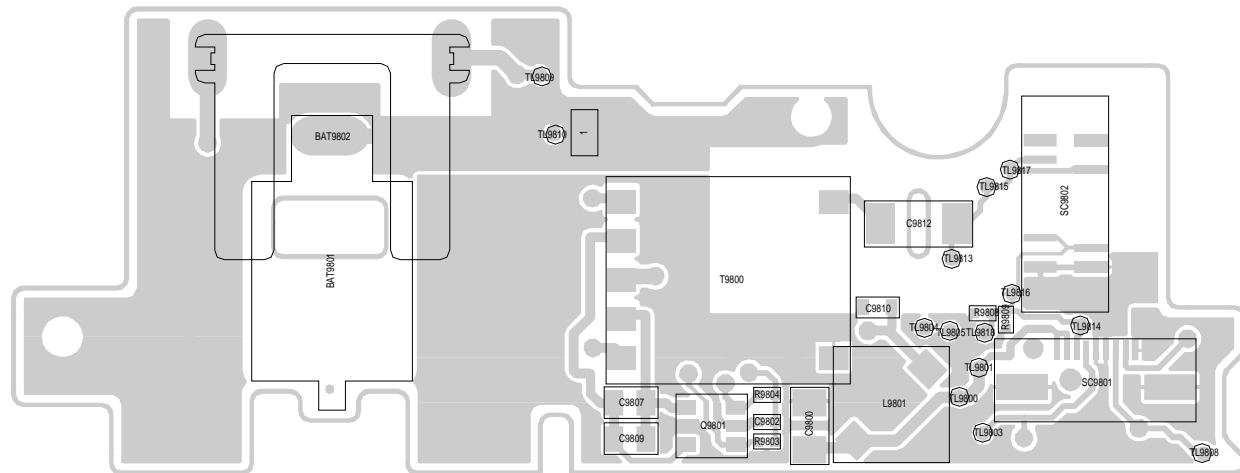


SIDE B

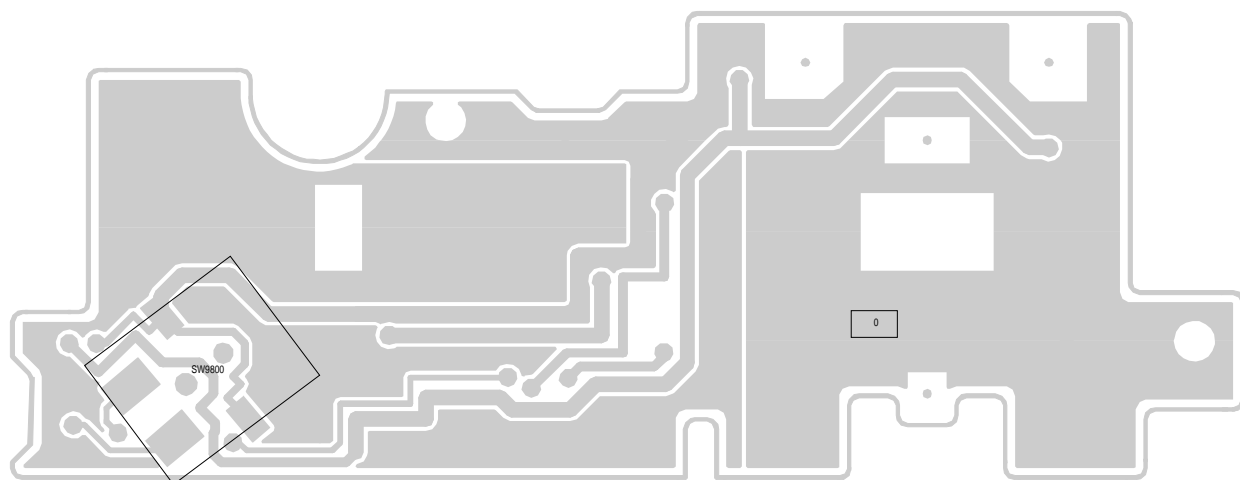


INVERTER PWB

SIDE A



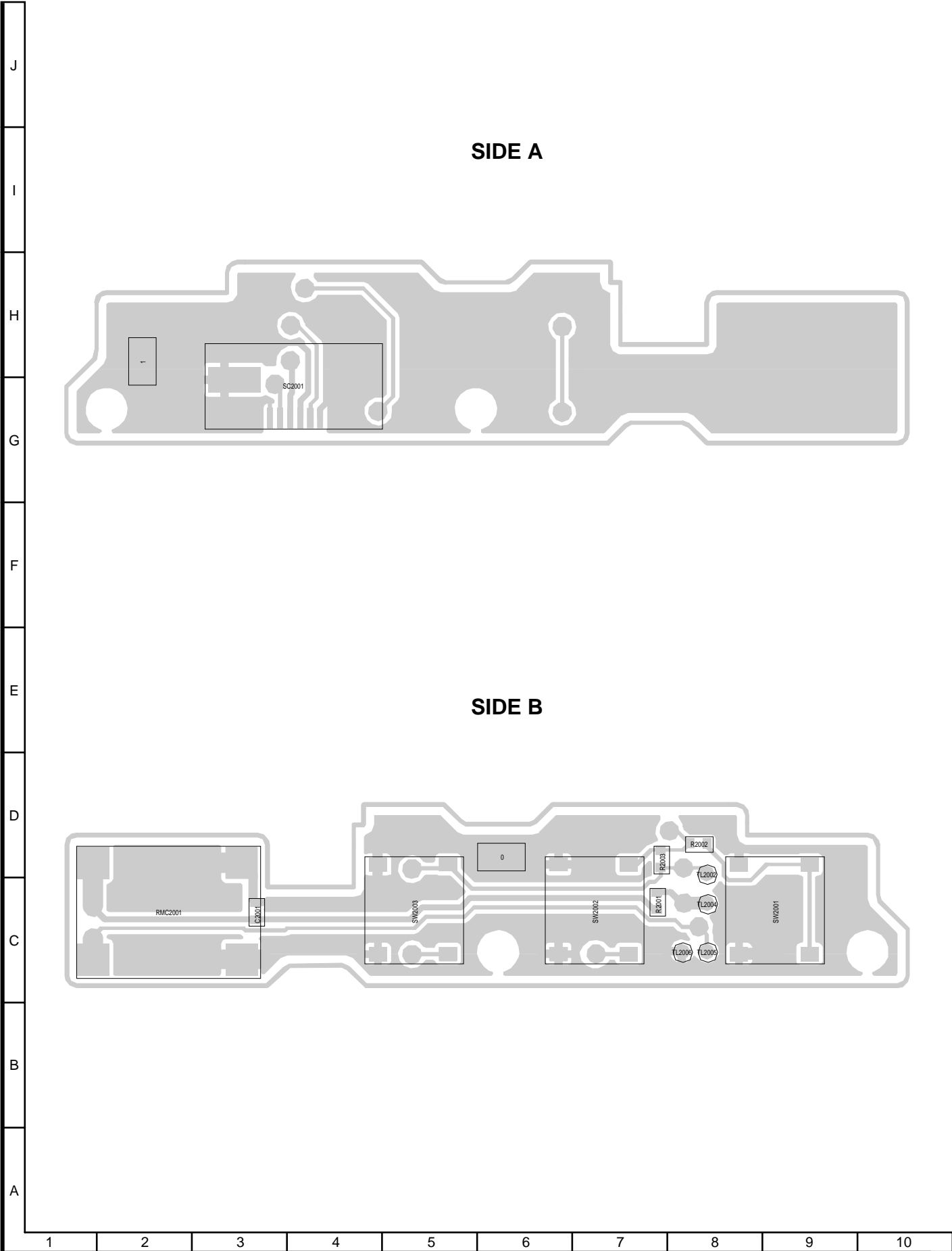
SIDE B



J
I
H
G
F
E
D
C
B
A

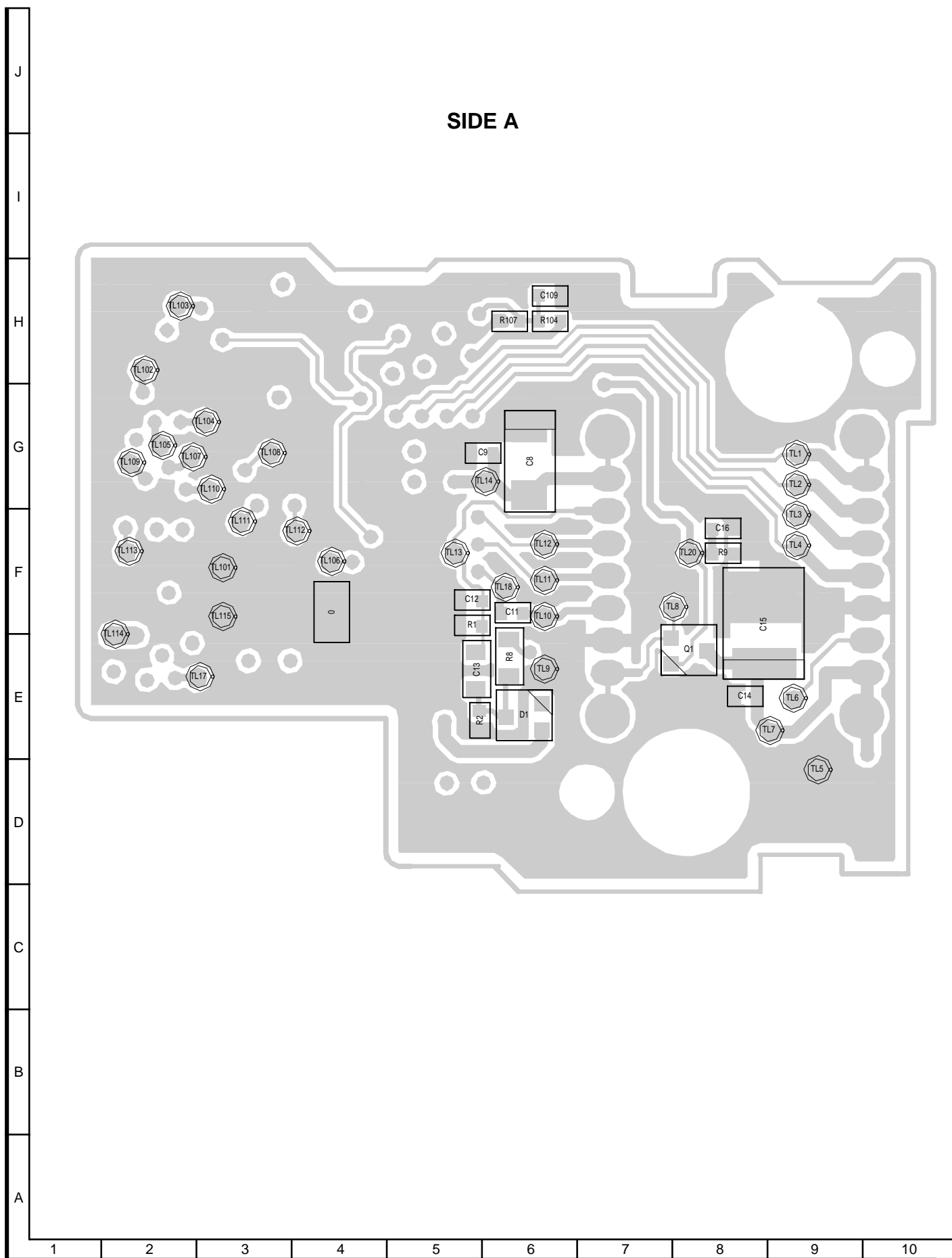
1 2 3 4 5 6 7 8 9 10

OPERATION PWB

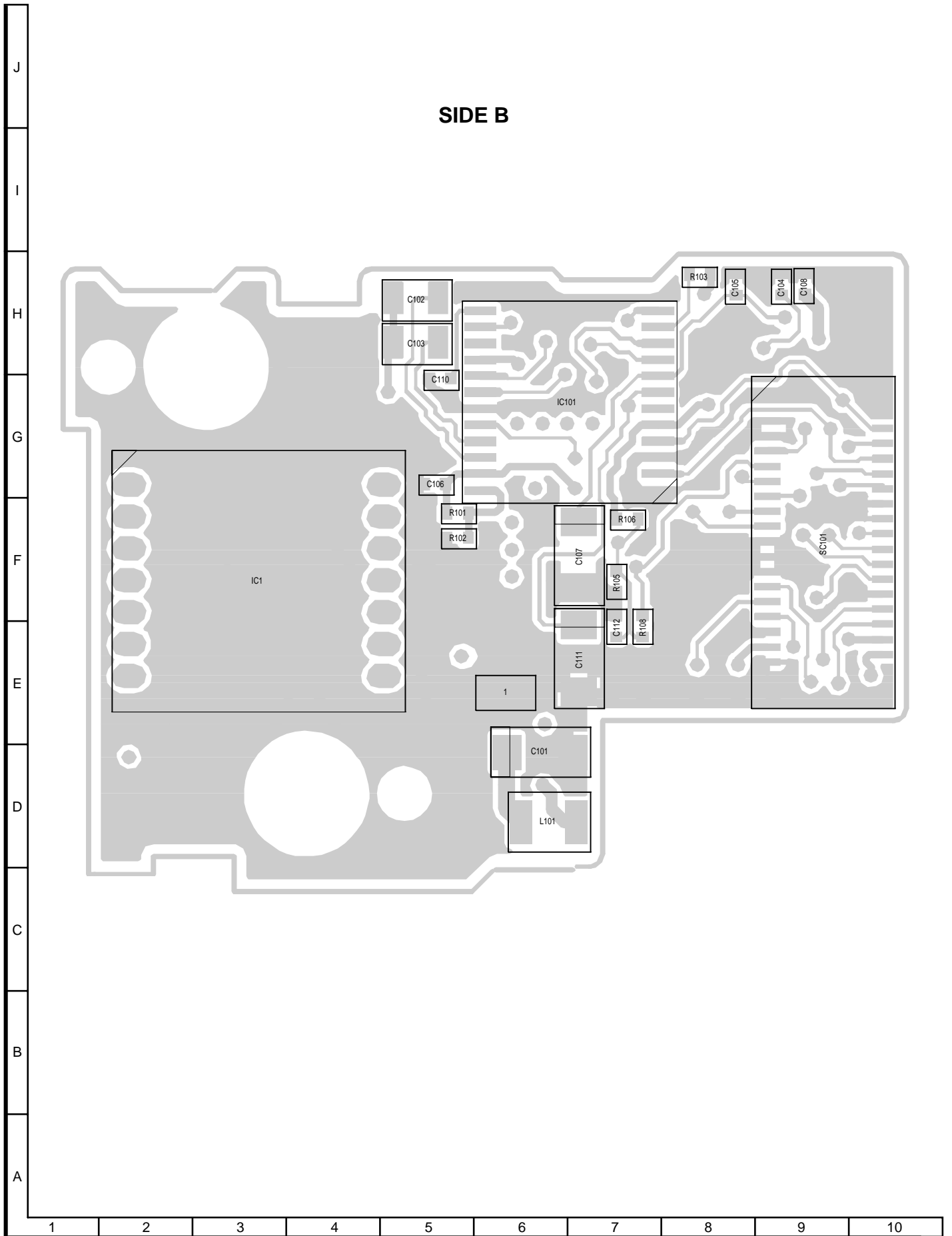


CCD PWB

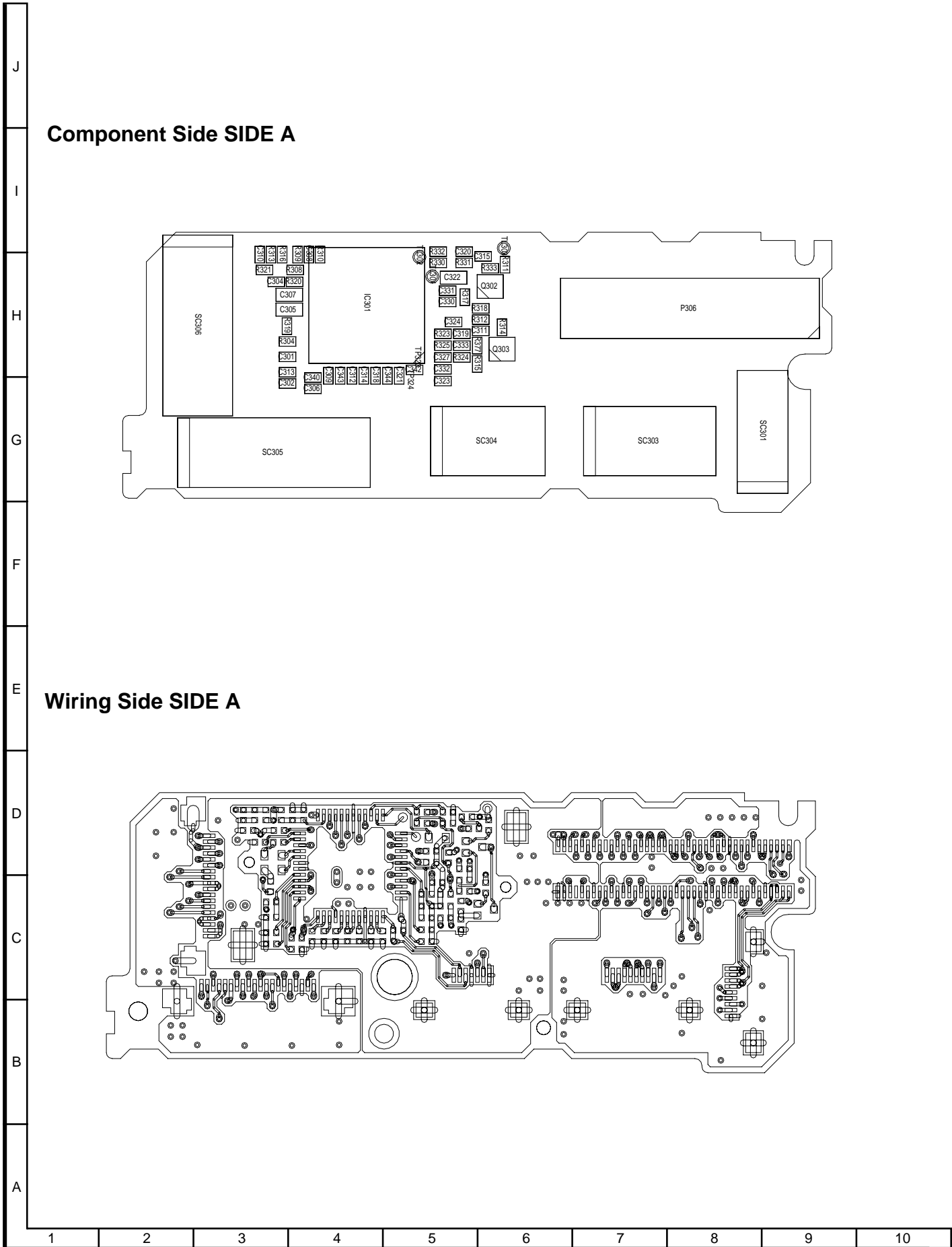
SIDE A



SIDE B



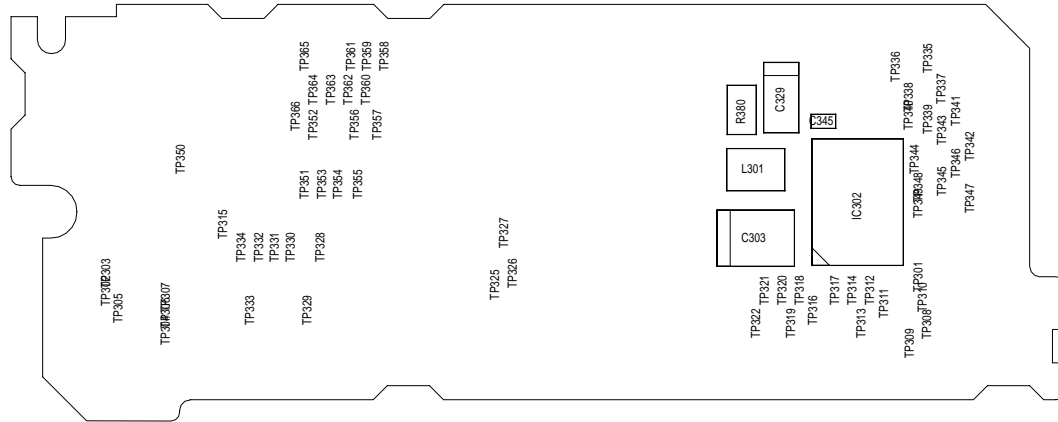
HEAD AMP PWB



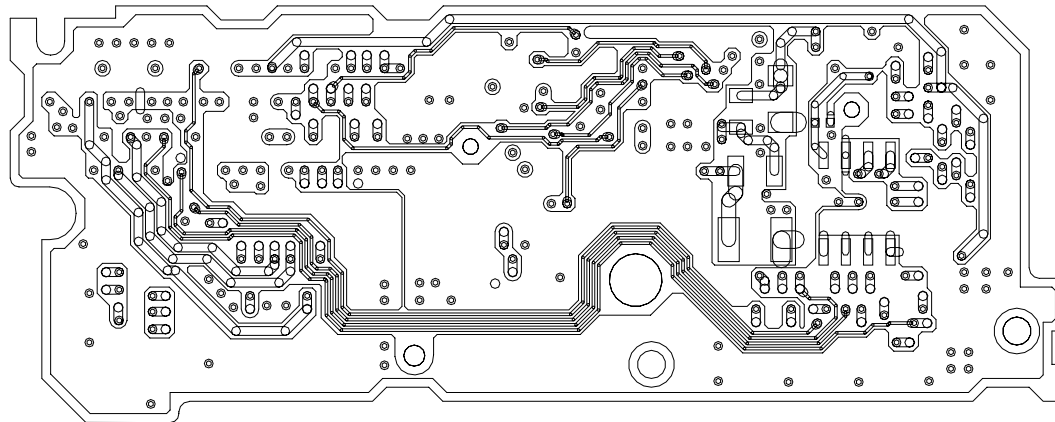
J
I
H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9 10

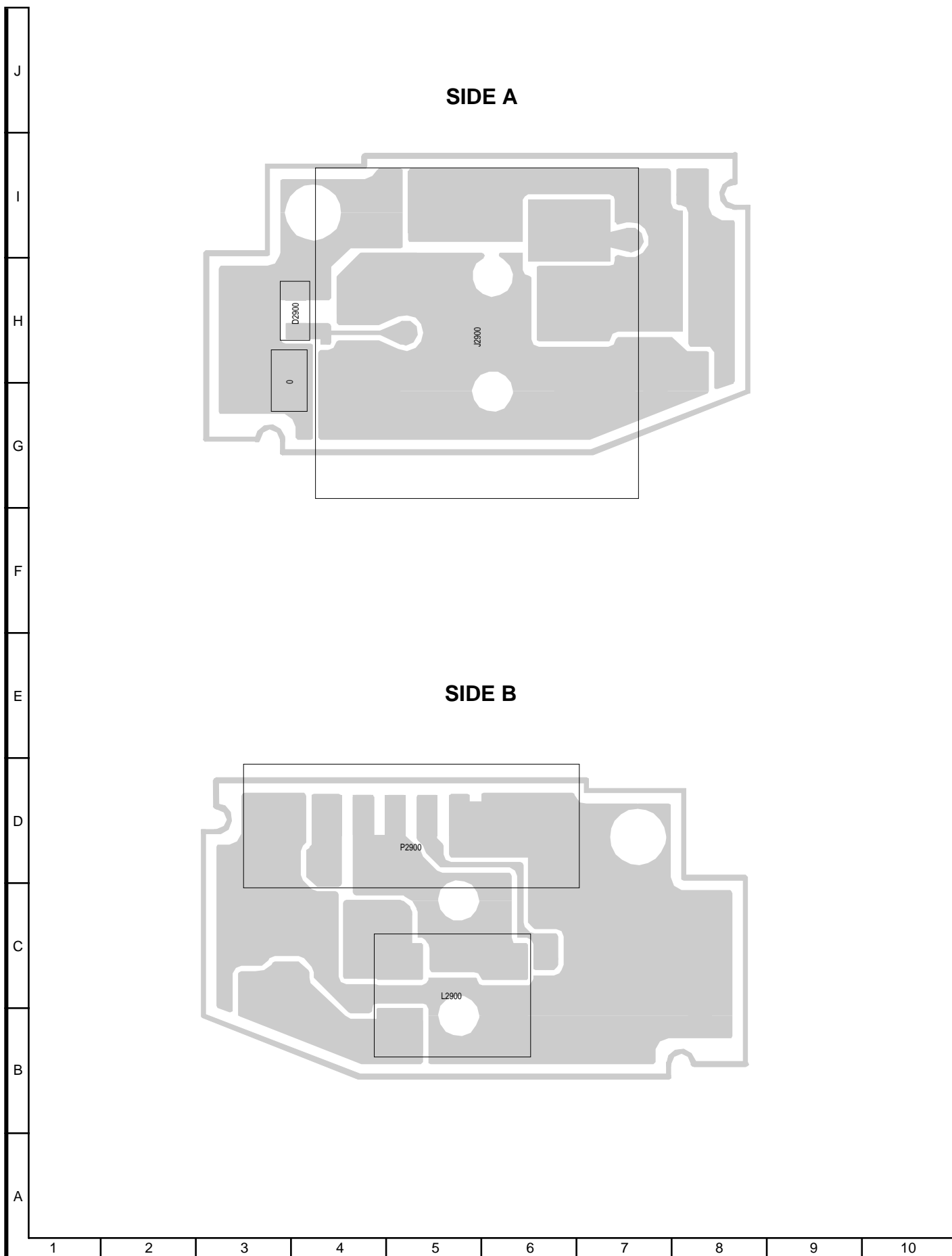
Component Side SIDE B



Wiring Side SIDE B



DC JACK PWB



16. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

ELECTRICAL PARTS LIST

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

" HOW TO ORDER REPLACEMENT PARTS "

★MARK : SPARE PARTS-DELIVERY SECTION:ALL JAPAN

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. PRICE CODE | |

△ MARK: SAFETY RELATED PARTS

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

Ref. No.	Part No.	★	Description	Code
PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)				
	DUNTKB259QA01		MAIN PWB Unit (VL-NZ100S)	—
	DUNTKB259QA02		MAIN PWB Unit (VL-NZ100H)	—
	DUNTKB259QA03		MAIN PWB Unit (VL-NZ100E/E(Hong Kong)/ E(Australia, New Zealand))	—
	DUNTKB259QA05		MAIN PWB Unit(VL-NZ50S)	—
	DUNTKB259QA06		MAIN PWB Unit(VL-NZ50H)	—
	DUNTKB259QA07		MAIN PWB Unit (VL-NZ50E/E(Australia, New Zealand))	—
	DUNTKB259QA08		MAIN PWB Unit (VL-NZ50W(Hong Kong))	—
	DUNTKB259QA09		MAIN PWB Unit (VL-NZ80H)	—
	DUNTKB249QA00		CAMERA HEAD PWB Unit (VL-NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	—
	DUNTKB249QA01		CAMERA HEAD PWB Unit (VL-NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	—
	DUNTKB250QA00		AUDIO I/O PWB Unit (VL-NZ100S/H)	—
	DUNTKB250QA01		AUDIO I/O PWB Unit (VL-NZ100E/E(Hong Kong)/ E(Australia, New Zealand))	—
	DUNTKB250QA02		AUDIO I/O PWB Unit (VL-NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	—
	DUNTKB250QA04		AUDIO I/O PWB Unit (VL-NZ80H)	—
	DUNTKB191PM02		CARD PWB Unit (VL-NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	—
	DUNTKB192QA00		INVERTER PWB Unit	—
	DUNTKB193PM00		OPERATION PWB Unit	—
	DUNTKB246PM00		DC JACK PWB Unit	—
	DUNTKB248PM00		CCD PWB Unit	—
	RAMP-0035TAN4		HEAD AMP PWB Unit	—

Ref. No.	Part No.	★	Description	Code
	DUNTKB259QA01		(VL-NZ100S)	
	DUNTKB259QA02		(VL-NZ100H)	
	DUNTKB259QA03		(VL-NZ100E/E(HONG KONG)/ E(AUSTRALIA, NEW ZEALAND))	
	DUNTKB259QA05		(VL-NZ50S)	
	DUNTKB259QA06		(VL-NZ50H)	
	DUNTKB259QA07		(VL-NZ50E/ E(AUSTRALIA, NEW ZEALAND))	
	DUNTKB259QA08		(VL-NZ50W(HONG KONG))	
	DUNTKB259QA09		(VL-NZ80H)	
			MAIN PWB UNIT	

INTEGRATED CIRCUITS

IC151	VHiADS933Y/-1		ADS933Y, 10 Bit A/D Converter	AR
IC201	RH-iXA193WJZZY		IXA193WJ, Codec External Memory	AW
IC202	RH-iX0850TAZZQ		IX0850TA, Digital Signal Process	BC
IC405	VHiNJU7015R-1Y		NJU7015R, DC Amp	AF
IC407	RH-iXA193WJZZY		IXA193WJ, Codec External Memory	AW
IC408	RH-iXA193WJZZY		IXA193WJ, ECC External Memory	AW
IC452	RH-iX0809TAZZ		IX0809TA, Codec/ECC/PCM/CLK. Gen/DIF	BM
IC701	RH-iXA182WJPZQ		IXA182WJ, Mec/System Micon	AX
IC703	RH-iX0940TAZZY		IX0940TA, Character Generator	AL
IC704	VHiS817B28C-1Y		S817B28C, Sys_2.8V_Reg	AD
IC705	VHiBR24C32F-1Y		BR24C32F, E ² PROM	AH
IC706	VHiNJM2143R-1		NJM2143R	AE
IC707	VHiRS5C313/-1		RS5C313, Timer	AL
IC708	VHiS80937AN-1		S80937AN, Reset	AD
IC900	VHiMB3881+++1		MB3881++, Power_CTL	AT
IC901	VHiNJM2143R-1		NJM2143R, 2.8V/2.5V Reg	AE
IC1401	VHiMM1510XN-1		MM1510XN	AE
IC1431	VHiMM1503XN-1Y		MM1503XN	AE
IC1602	VHiPCM3008+-1Y		PCM3008+, 16 Bit ADC/DAC	AN
IC1701	VHiLB11990W-1		LB11990W, Motor Driver	AR
IC1901	VHiLV4051AT-1		LV4051AT, Power Check	AE
IC1902	VHiTA75S01F-1		TA75S01F	AD
IC2800	VHiMM1323XV-1		MM1323XV, LCD Interface	AN
IC2802	VHiTA75S01F-1		TA75S01F, I DET	AD
IC2901	VHiMM1332E/-1		MM1332E	AH
IC3401	VHiBH7277KV-1		BH7277KV, EQ/PLL IC	AX
IC3402	VHiTLC2940/-1		TLC2940, VCO IC	AM
IC3403	VHiTCSZ04U/-1		TCSZ04U, Inv IC	AE
IC3404	VHiADC08351-1		ADC08351, A/D Conv IC	AN
IC3405	VHiSN2G53CT-1		SN2G53CT, SW IC	AE
IC3701	RH-iXA183WJPZQ		IXA183WJ, Camera/Card Micro Computer (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AZ
IC3701	RH-iXA185WJPZQ		IXA185WJ, Camera/Card Micro Computer (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	AZ
IC3702	RH-iXA193WJZZY		IXA193WJ, ECC External Memory(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AW
IC4401	RH-iXA149WJZZQ		IXA149WJ, Digital ADC/DACBB Decoder/Encoder	BB
IC4461	VHiSN2G53CT-1		SN2G53CT, VCTL SW	AE
IC4701	VHiPT8214+++1Y		PT8214+, D/A Converter	AM
IC5701	RH-iX0947TAZZQ		IX0947TA (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AY

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
TRANSISTORS									
Q701	VSRT1N144U/-1		RT1N144U	AB	D404	VHDHVU362//-1		HVU362 (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AE
Q702	VSKTA2014EY-1Y		KTA2014EY	AB	D471	VHDHVU362//-1		HVU362	AE
Q704	VSKTA2014EY-1Y		KTA2014EY	AB	D472	VHDHVU359TR-1		HVU359TR	AE
Q705	VSKTA2014EY-1Y		KTA2014EY	AB	D703	VHDKDR732+++1Y		KDR732++	AC
Q900	VSCPH6702+++1		CPH6702++	AD	D900	RH-EX1394CEZZ		Zener, EX1394CE	AB
Q901	VS2SC4213B/-1		2SC4213B	AC	D901	VHDMA4S159/-1		MA4S159	AC
Q902	VSFMMT717//-1		FMMT717	AE	D902	VHDMA4S159/-1		MA4S159	AC
Q903	VSCPH6702+++1		CPH6702++	AD	D1900	VHDMA132WK/-1		MA132WK	AA
Q904	VSCPH6702+++1		CPH6702++	AD	D2901	RH-EX1400CEZZ		Zener, EX1400CE	AB
Q905	VSFMMT619//-1		FMMT619	AE	D2902	VHD1SS400+++1Y		1SS400++	AB
Q906	VSCPH6702+++1		CPH6702++	AD	D2903	VHDSFPE64+++1Y		SFPE64++	AD
Q907	VSCPH6702+++1		CPH6702++	AD	D2904	VHDF1J2H///-1		F1J2H	AD
Q908	VSCPH6702+++1		CPH6702++	AD	D2905	VHDBAS316//-1		BAS316	AB
Q910	VSND355AN/-1		NDS355AN	AE	D2906	RH-EX1398CEZZ		Zener, EX1398CE	AB
Q911	VSCPH6702+++1		CPH6702++	AD	D4451	VHDKV1812K/-1		KV1812K	AD
Q1200	VSKRX203U+++1Y		KRX203U++	AB	D4452	VHDKV1812K/-1		KV1812K	AD
Q1402	VS2SC5376B+1Y		2SC5376B+ (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AC	D7810	VHDHVC359TR-1		HVC359TR	AD
Q1403	VSKRX203U+++1Y		KRX203U++ (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AB	VA1401	RH-VXA003WJZZY		Varistor (NZ50S/H/NZ80H/NZ100S/H)	AC
Q1431	VSRN4986///-1		RN4986	AB	VA1402	RH-VXA003WJZZY		Varistor	AC
Q1434	VSKTX101UY+-1Y		KTX101UY+	AB	PACKAGED CIRCUITS				
Q1450	VSRN4986///-1		RN4986	AB	TH2800	VHHT1103K44-1		Thermistor	AD
Q1451	VSKTX101UY+-1Y		KTX101UY+	AB	TH3401	VHHT1682J44-1		Thermistor	AC
Q1452	VSKTA2014EY-1Y		KTA2014EY	AB	X401	RCRSC0160TAZZ		Crystal, CRSC0160TA	AH
Q1453	VSKTC4075EY-1Y		KTC4075EY	AB	X701	RCRSC0032TAZZ		Crystal, CRSC0032TA	AG
Q1454	VSKTC4075EY-1Y		KTC4075EY	AB	X702	RCRSC0183TAZZ		Crystal, CRSC0183TA	AH
Q1455	VSKTC4075EY-1Y		KTC4075EY	AB	X4451	RCRSC0167TAZZ		Crystal, CRSC0167TA	AM
Q1701	VSHN2C01FU/-1		HN2C01FU	AC	X5701	RCRSCA019WJZZY		Crystal, CRSCA019WJ (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AG
Q1702	VSFMMT619//-1		FMMT619	AE	COILS AND TRANSFORMER				
Q1905	VSND332P//-1		NDS332P	AD	FL403	RFILC0164TAZZ		Filter, FILC0164TA (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AH
Q1906	VSKRC404E+++1Y		KRC404E++	AB	FL3401	RCiLF0408TAZZ		Coil, CiLF0408TA	AG
Q1908	VSKTA2014EY-1Y		KTA2014EY	AB	FL3402	RCiLF0408TAZZ		Coil, CiLF0408TA	AG
Q1909	VSKRX203U+++1Y		KRX203U++	AB	FL3403	RCiLF0409TAZZ		Coil, CiLF0409TA	AG
Q1911	VS2SC4944Y/-1		2SC4944Y	AC	FL3702	RFILZ0003TAZZY		Filter, FILZ0003TA	AD
Q1913	VSKTC4075EY-1Y		KTC4075EY	AB	FL5701	RCiLF0416TAZZY		Coil, CiLF0416TA (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AE
Q1914	VSHN2A01FU/-1		HN2A01FU	AC	L151	VPD9M100KR86N		Peaking, 10µH	AC
Q1920	VS3LP01S+++1Y		3LP01S+++	AC	L403	VPD9M1R0MR20N		Peaking, 1µH	AB
Q1921	VSKRX203U+++1Y		KRX203U++	AB	L471	VPD9M8R2J2RON		Peaking, 8.2µH	AC
Q1932	VSFMMT717//-1		FMMT717	AE	L701	VPMAN100MR50N		Peaking, 10µH	AC
Q2800	VS3LN01S///-1		3LN01S	AC	L900	RCiLP0323TAZZ		Coil, 4.7µH	AD
Q2801	VSKTX101UY+-1Y		KTX101UY+	AB	L901	RCiLPA010WJZZY		Coil, 15µH	AD
Q2802	VSKTX101UY+-1Y		KTX101UY+	AB	L902	VPD9M2R2MR32NY		Peaking, 2.2µH	AB
Q2805	VSKTC4075EY-1Y		KTC4075EY	AB	L903	VPD9M2R2MR32NY		Peaking, 2.2µH	AB
Q2806	VSKTX101UY+-1Y		KTX101UY+	AB	L905	VPD9M4R7MR53NY		Peaking, 4.7µH	AB
Q2901	VSFDC642P+++1		FDC642P++	AE	L907	RCiLPA010WJZZY		Coil, 15µH	AD
Q2902	VSFDC642P+++1		DC642P++	AE	L908	VPD9M2R2MR32NY		Peaking, 2.2µH	AB
Q2903	VS2SJ643++++1		2SJ643+++	AF	L909	VPD9M4R7MR53NY		Peaking, 4.7µH	AB
Q2904	VSKRC854U+++1Y		KRC854U++	AB	L910	VPD9M2R2MR32NY		Peaking, 2.2µH	AB
Q2905	VSKRC652U+++1Y		KRC652U++	AB	L911	RCiLPA010WJZZY		Coil, 15µH	AD
Q2906	VSXN04391//-1		XN04391	AC	L912	VPCCM2R2MR09N		Peaking, 2.2µH	AC
Q2907	VSRN4986///-1		RN4986	AB	L913	VPMAN100MR50N		Peaking, 10µH	AC
Q3401	VSKTC4075EY-1Y		KTC4075EY	AB	L914	VPMAN100MR50N		Peaking, 10µH	AC
Q3404	VSKTC4075EY-1Y		KTC4075EY	AB	L915	RCiLP0323TAZZ		Coil, 4.7µH	AD
Q3406	VSXP05534//-1		XP05534	AD	L916	RCiLPA012WJZZY		Coil, 33µH	AD
Q4432	VSKTA2014EY-1Y		KTA2014EY	AB	L917	RCiLPA012WJZZY		Coil, 33µH	AD
Q4470	VSRN4986///-1		RN4986	AB	L918	RCiLPA010WJZZY		Coil, 15µH	AD
Q4481	VSKTX101UY+-1Y		KTX101UY+	AB	L919	VPCCM2R2MR09N		Peaking, 2.2µH	AC
Q4482	VSKTX101UY+-1Y		KTX101UY+	AB	L920	VPMAN100MR50N		Peaking, 10µH	AC
Q7401	VSKTC4075EY-1Y		KTC4075EY	AB	L921	VPMAN100MR50N		Peaking, 10µH	AC
Q7402	VSKRC404E+++1Y		KRC404E++	AB	DIODES				
Q7403	VSKTC4075EY-1Y		KTC4075EY	AB	D403	VHDHVU362//-1		HVU362 (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AE

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
L923	RCiLPA010WJZZY		Coil, 15μH	AD	C432	VCKYCZ1CB103K		0.01 16V Ceramic	AB
L1401	VPD9M470K4R1N		Peaking, 47μH	AC	C435	VCKYCZ1CB103K		0.01 16V Ceramic	AB
L1431	VPD9M470K4R1N		Peaking, 47μH	AC				(NZ50E/W(Hong Kong)/	
L1450	VPD9M470K4R1N		Peaking, 47μH	AC				E(Australia, New Zealand)/	
L1451	VPD9M220J2R7N		Peaking, 22μH	AC				NZ100S/H/E/E(Hong Kong)/	
L1452	VPD9M180J2R4N		Peaking, 18μH	AC				E(Australia, New Zealand))	
L1601	VPMAN100MR50N		Peaking, 10μH	AC	C447	VCKYCZ1CB103K		0.01 16V Ceramic	AB
L1701	VPMAN100MR50N		Peaking, 10μH	AC				(NZ50E/W(Hong Kong)/	
L1702	VPD9M4R7MR53NY		Peaking, 4.7μH	AB				E(Australia, New Zealand)/	
L2800	VPD9M470K4R1N		Peaking, 47μH	AC				NZ100S/H/E/E(Hong Kong)/	
L2801	VPD9M470K4R1N		Peaking, 47μH	AC				E(Australia, New Zealand))	
L2802	VPD9M470K4R1N		Peaking, 47μH	AC	C450	RC-KZ0117TAZZ		4.7 6.3V Ceramic	AD
L2804	VPCQM4R7MR22NY		Peaking, 4.7μH	AB				(NZ50E/W(Hong Kong)/	
L3401	RCiLP0276TAZZ		Coil, CiLP0276TA	AC				E(Australia, New Zealand)/	
L3404	VPD9M4R7MR53NY		Peaking, 4.7μH	AB				NZ100S/H/E/E(Hong Kong)/	
L3405	VPD9M4R7MR53NY		Peaking, 4.7μH	AB				E(Australia, New Zealand))	
L3701	VPMAN4R7MR37N		Peaking, 4.7μH	AC	C451	VCKYCY0JB105K		1 6.3V Ceramic	AC
L4404	VPD9M100KR86N		Peaking, 10μH	AC				(NZ50E/W(Hong Kong)/	
L4406	VPD9M100KR86N		Peaking, 10μH	AC				E(Australia, New Zealand)/	
L4451	RCiLP0353TAZZY		Coil, CiLP0353TA	AC				NZ100S/H/E/E(Hong Kong)/	
L4471	VPD9M470K4R1N		Peaking, 47μH	AC				E(Australia, New Zealand))	
L7400	VPMAN100MR50N		Peaking, 10μH	AC	C452	VCKYCZ1AB104K		0.1 10V Ceramic	AB
L7800	VPD9M100KR86N		Peaking, 10μH	AC				(NZ50E/W(Hong Kong)/	
L7810	VPD9M180J2R4N		Peaking, 18μH	AC				E(Australia, New Zealand)/	
△ T900	RTRNZ0152TAZZ		Transformer	AF				NZ100S/H/E/E(Hong Kong)/	
								E(Australia, New Zealand))	
					C456	VCSATA0JJ106M		10 6.3V Tantalum	AD
					C457	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C460	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C462	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C463	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C465	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C473	VCKYCZ1AB104K		0.1 10V Ceramic	AB
					C474	VCKYCZ1AB104K		0.1 10V Ceramic	AB
					C475	VCKYCZ1HB221K		220p 50V Ceramic	AA
					C476	VCKYCZ1HB221K		220p 50V Ceramic	AA
					C477	VCKYCZ1HB221K		220p 50V Ceramic	AA
					C478	VCKYCZ1HB221K		220p 50V Ceramic	AA
					C701	RC-KZ1025CEZZ		1 10V Ceramic	AB
					C702	VCKYCY0JF105Z		1 6.3V Ceramic	AB
					C703	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C704	VCKYTV1AB105K		1 10V Ceramic	AD
					C705	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C706	VCSATA0JJ106M		10 6.3V Tantalum	AD
					C709	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C711	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C712	VCKYTV1AB105K		1 10V Ceramic	AD
					C713	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C714	VCCCCZ1HH120J		12p 50V Ceramic	AB
					C715	VCCCCZ1HH120J		12p 50V Ceramic	AB
					C716	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C717	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C718	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C719	VCCCCZ1HH270J		27p 50V Ceramic	AB
					C720	VCCCCZ1HH270J		27p 50V Ceramic	AB
					C721	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C722	VCKYCY1CB104K		0.1 16V Ceramic	AB
					C723	VCKYCY1CB104K		0.1 16V Ceramic	AB
					C724	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C725	VCKYCZ1EB682K		6800p 25V Ceramic	AB
					C726	VCKYCZ1HB102K		1000p 50V Ceramic	AB
					C727	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C728	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C729	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C730	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C731	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C732	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C733	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C734	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
					C735	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C737	VCKYCZ1EB682K		6800p 25V Ceramic	AB
					C738	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C901	VCKYCZ1AB104K		0.1 10V Ceramic	AB
					C904	VCKYCZ1CB103K		0.01 16V Ceramic	AB
					C905	VCKYCZ1CB103K		0.01 16V Ceramic	AB

CAPACITORS

VL-NZ50S/H/E/W/NZ80H
VL-NZ100S/H/E

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C906	VCKY CZ1EB472K	4700p	25V Ceramic	AB	C1437	VCCCCZ1HH680J	68p	50V Ceramic (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AB
C907	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1438	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C908	VCKY CZ1AB473K	0.047	10V Ceramic	AB	C1439	VCKY CY0JF105Z	1	6.3V Ceramic (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AB
C910	VCKY CZ1AB104K	0.1	10V Ceramic	AB	C1440	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C911	VCKY CY1CB104K	0.1	16V Ceramic	AB	C1450	VCCCCZ1HH270J	27p	50V Ceramic	AB
C912	VCKY CY1CB104K	0.1	16V Ceramic	AB	C1451	VCCCCZ1HH560J	56p	50V Ceramic	AB
C913	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C1452	VCCCCZ1HH470J	47p	50V Ceramic	AB
C914	VCCCCZ1HH101J	100p	50V Ceramic	AB	C1453	VCCCCZ1HH7R0D	7p	50V Ceramic	AB
C915	VCKY CY1AB224K	0.22	10V Ceramic	AB	C1454	VCCCCZ1HH470J	47p	50V Ceramic	AB
C916	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1455	VCSATA1AJ106M	10	10V Tantalum	AC
C917	VCKY CZ1HB221K	220p	50V Ceramic	AA	C1457	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C918	VCKY CZ1HB221K	220p	50V Ceramic	AA	C1458	VCSATE1AJ476M	47	10V Tantalum	AD
C919	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1603	VCKY CY0JB105K	1	6.3V Ceramic	AC
C920	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C1604	VCKY CY0JB105K	1	6.3V Ceramic	AC
C921	VCKY CY1CB104K	0.1	16V Ceramic	AB	C1605	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C922	VCKY CY1CB104K	0.1	16V Ceramic	AB	C1608	VCSATA0JJ106M	10	6.3V Tantalum	AD
C923	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1610	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C924	VCKY CZ1HB471K	470p	50V Ceramic	AB	C1611	VCKY CY1AB474K	0.47	10V Ceramic	AC
C926	VCKY CZ1CB223K	0.022	16V Ceramic	AC	C1617	VCKY CY1AB474K	0.47	10V Ceramic	AC
C927	VCKY CZ1HB471K	470p	50V Ceramic	AB	C1701	VCKY CZ1CB223K	0.022	16V Ceramic	AC
C928	VCKY CY1CB104K	0.1	16V Ceramic	AB	C1702	VCKY CZ1CB223K	0.022	16V Ceramic	AC
C930	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1703	VCKY TV1AB105K	1	10V Ceramic	AD
C931	RC-KZ0075TAZZ	2.2	16V Ceramic	AC	C1704	RC-KZ1025CEZZ	1	10V Ceramic	AB
C932	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1705	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C933	RC-KZ0044TAZZ	4.7	16V Ceramic	AD	C1706	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C934	RC-KZ0083TAZZ	2.2	10V Ceramic	AD	C1707	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C936	VCSATE1AJ106M	10	10V Tantalum	AD	C1708	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C937	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1709	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C938	RC-KZ0074TAZZ	10	6.3V Ceramic	AF	C1710	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C939	VCKY TV1AB105K	1	10V Ceramic	AD	C1711	VCKY TV1AB105K	1	10V Ceramic	AD
C941	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C1712	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C943	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1713	VCKY CZ1HB102K	1000p	50V Ceramic	AB
C946	VCKY TV1AB105K	1	10V Ceramic	AD	C1714	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C948	VCSATA0JJ106M	10	6.3V Tantalum	AD	C1715	VCKY CZ1HB102K	1000p	50V Ceramic	AB
C949	VCKY TV1AB105K	1	10V Ceramic	AD	C1716	VCKY CZ1HB102K	1000p	50V Ceramic	AB
C951	VCKY TV1AB105K	1	10V Ceramic	AD	C1717	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C952	RC-KZ0083TAZZ	2.2	10V Ceramic	AD	C1718	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C953	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1719	VCKY CY0JF105Z	1	6.3V Ceramic	AB
C954	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1720	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C955	RC-KZ0075TAZZ	2.2	16V Ceramic	AC	C1721	VCKY CY0JF105Z	1	6.3V Ceramic	AB
C956	RC-KZ0044TAZZ	4.7	10V Ceramic	AD	C1722	VCKY CY1CB473K	0.047	16V Ceramic	AA
C957	VCKY TV1AB105K	1	10V Ceramic	AD	C1723	VCKY CZ1EB472K	4700p	25V Ceramic	AB
C959	VCKY TV1EB104K	0.1	25V Ceramic	AB	C1724	RC-KZ1025CEZZ	1	10V Ceramic	AB
C960	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1725	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C962	RC-KZ0084TAZZ	1	25V Ceramic	AC	C1726	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C963	RC-KZ0084TAZZ	1	25V Ceramic	AC	C1727	VCCCCZ1HH101J	100p	50V Ceramic	AB
C964	VCKY TV1CF105Z	1	16V Ceramic	AB	C1728	RC-KZ1025CEZZ	1	10V Ceramic	AB
C965	VCKY TV1EB104K	0.1	25V Ceramic	AB	C1729	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C966	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1730	VCKY TV1AB105K	1	10V Ceramic	AD
C967	VCKY TV1AB105K	1	10V Ceramic	AD	C1906	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C968	RC-KZ0084TAZZ	1	25V Ceramic	AC	C1911	VCKY TV1EB104K	0.1	25V Ceramic	AB
C969	VCKY TV1CF105Z	1	16V Ceramic	AB	C1921	VCSATA1CJ106M	10	16V Tantalum	AD
C970	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1922	VCKY TV1EB104K	0.1	25V Ceramic	AB
C971	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C1980	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C972	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1982	VCKY TV1EB104K	0.1	25V Ceramic	AB
C973	RC-KZ0044TAZZ	4.7	10V Ceramic	AD	C2800	VCKY CY0JF105Z	1	6.3V Ceramic	AB
C974	RC-KZ0044TAZZ	4.7	10V Ceramic	AD	C2801	VCKY CZ1HF103Z	0.01	50V Ceramic	AB
C980	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C2802	VCKY CZ1HF103Z	0.01	50V Ceramic	AB
C982	RC-KZ0044TAZZ	4.7	10V Ceramic	AD	C2803	VCKY TV1EB104K	0.1	25V Ceramic	AB
C983	VCKY TV1AB105K	1	10V Ceramic	AD	C2804	VCKY TV1AB105K	1	10V Ceramic	AD
C990	RC-KZ0075TAZZ	2.2	16V Ceramic	AC	C2805	VCSATA1AJ106M	10	10V Tantalum	AC
C991	RC-KZ0044TAZZ	4.7	10V Ceramic	AD	C2806	VCSATA1VJ155M	1.5	35V Tantalum	AC
C992	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C2807	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C993	VCKY CY1AB224K	0.22	10V Ceramic	AB	C2809	VCKY TV1AB105K	1	10V Ceramic	AD
C1201	VCCCCZ1HH151J	150p	50V Ceramic	AB	C2810	VCKY TV1AB105K	1	10V Ceramic	AD
C1401	VCSATE1AJ226M	22	10V Tantalum	AD	C2811	VCKY TV1AB105K	1	10V Ceramic	AD
C1403	VCKY CY0JF105Z	1	6.3V Ceramic	AB	C2812	VCKY TV1AB105K	1	10V Ceramic	AD
C1404	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C2814	VCSATA1DJ475M	4.7	20V Tantalum	AC
C1405	VCSATE0JJ107M	100	6.3V Tantalum	AE	C2816	VCSATA1DJ475M	4.7	20V Tantalum	AC
C1406	VCSATA0JJ156M	15	6.3V Tantalum	AC	C2819	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C1431	VCSATE1AJ226M	22	10V Tantalum	AD	C2821	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C1436	VCCCCZ1HH150J	15p	50V Ceramic (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AB					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C2822	VCKYCY0JB105K	1	6.3V Ceramic	AC	C3710	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C2823	VCCCCZ1HH330J	33p	50V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C2825	VCKYCY1EB104KY	0.1	25V Ceramic	AB	C3711	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C2828	VCKYCY0JB105K	1	6.3V Ceramic	AC	C4401	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C2830	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4402	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C2831	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4403	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C2901	VCKYCY1CB104K	0.1	16V Ceramic	AB	C4404	VCSATA0JJ106M	10	6.3V Tantalum	AD
C2902	VCKYTV1CF105Z	1	16V Ceramic	AB	C4405	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C2903	VCKYCY1CB104K	0.1	16V Ceramic	AB	C4406	VCSATA0JJ106M	10	6.3V Tantalum	AD
C3401	VCCCCZ1HH390J	39p	50V Ceramic	AB	C4407	VCKYCY1AB224K	0.22	10V Ceramic	AB
C3402	VCCCCZ1HH100D	10p	50V Ceramic	AB	C4408	VCKYCY1AB224K	0.22	10V Ceramic	AB
C3403	VCCCCZ1HH100D	10p	50V Ceramic	AB	C4409	VCKYCY1AB224K	0.22	10V Ceramic	AB
C3405	VCCCCZ1HH820J	82p	50V Ceramic	AB	C4410	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C3406	VCKYCY0JB105K	1	6.3V Ceramic	AC	C4413	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C3408	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4414	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C3409	VCKY CZ1HB471K	470p	50V Ceramic	AB	C4415	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C3410	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4416	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3411	VCKY CZ1HB471K	470p	50V Ceramic	AB	C4417	VCCCCZ1HH221J	220p	50V Ceramic	AB
C3412	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4418	VCCCCZ1HH221J	220p	50V Ceramic	AB
C3413	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4419	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3414	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4420	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3415	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4421	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3416	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4422	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3417	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4423	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3418	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4424	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3419	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4426	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3420	VCCCCZ1HH100D	10p	50V Ceramic	AB	C4427	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3421	VCCCCZ1HH121J	120p	50V Ceramic	AB	C4428	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3423	VCCCCZ1HH121J	120p	50V Ceramic	AB	C4435	VCSATA1AJ106M	10	10V Tantalum	AC
C3424	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4436	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3426	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4451	VCCCCZ1HH330J	33p	50V Ceramic	AB
C3428	VCKYCY0JB105K	1	6.3V Ceramic	AC	C4454	VCCCCZ1HH330J	33p	50V Ceramic	AB
C3429	VCKY CZ1HB102K	1000p	50V Ceramic	AB	C4461	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C3430	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4462	VCKY CZ1AB104K	0.1	10V Ceramic	AB
C3431	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4463	VCKY CZ1EB682K	6800p	25V Ceramic	AB
C3432	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4466	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3433	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4481	VCSATN0JJ106M	10	6.3V Tantalum	AD
C3434	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C4482	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3436	VCSATA0JJ336M	33	6.3V Tantalum	AD	C4483	VCSATA1AJ475M	4.7	10V Tantalum	AC
C3442	VCCCCZ1HH180J	18p	50V Ceramic	AB	C4485	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C3443	VCCCCZ1HH220J	22p	50V Ceramic	AB	C4701	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C3444	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C4702	VCKY CZ1AF104Z	0.1	10V Ceramic	AB
C3452	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C5701	VCSATA0JJ106M	10	6.3V Tantalum	AD
C3454	VCKYCY0JB105K	1	6.3V Ceramic	AC				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3455	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C5702	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3456	VCSATA0JJ106M	10	6.3V Tantalum	AD				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3457	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C5703	VCKY CZ1HB102K	1000p	50V Ceramic	AB
C3458	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3462	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C5704	VCKY CZ1HB102K	1000p	50V Ceramic	AB
C3467	VCKY CZ1CB103K	0.01	16V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3471	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C5705	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3473	VCSATA0JJ336M	33	6.3V Tantalum	AD				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3474	VCKY CZ1CB103K	0.01	16V Ceramic	AB	C5706	VCKY CZ1CB103K	0.01	16V Ceramic	AB
C3475	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3476	VCKY CZ1AF104Z	0.1	10V Ceramic	AB	C5707	VCCCCZ1HH100D	10p	50V Ceramic	AB
C3477	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3479	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3481	VCCCCZ1HH100D	10p	50V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3701	VCKYTV1AB105K	1	10V Ceramic	AD				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3702	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3703	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3704	VCKY CZ1HB102K	1000p	50V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3705	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3706	VCKY CZ1AF104Z	0.1	10V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3708	VCSATA0JJ106M	10	6.3V Tantalum	AD				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
C3709	VCKY CZ1CB103K	0.01	16V Ceramic	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C5708	VCCCCZ1HH100D		10p 50V Ceramic (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AB	R437	VRS-CZ1JF224J		220k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
C7400	RC-KZ0083TAZZ		2.2 10V Ceramic	AD	R438	VRS-CZ1JF000J		0 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
C7401	RC-KZ0083TAZZ		2.2 10V Ceramic	AD					
C7402	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7403	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7404	VCKYCZ1EB472K		4700p 25V Ceramic	AB					
C7413	VCKYCZ1HB221K		220p 50V Ceramic	AA	R440	VRS-CZ1JF393J		39k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
C7414	VCCCCZ1HH330J		33p 50V Ceramic	AB					
C7417	VCKYCY0JB105K		1 6.3V Ceramic	AC					
C7800	VCSATA0JJ106M		10 6.3V Tantalum	AD					
C7801	VCKYCZ1AF104Z		0.1 10V Ceramic	AB	R441	VRS-CZ1JF563J		56k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
C7802	VCKYCY0JB105K		1 6.3V Ceramic	AC					
C7803	VCKYCZ1AF104Z		0.1 10V Ceramic	AB					
C7804	VCKYCY0JB105K		1 6.3V Ceramic	AC					
C7805	VCKYCZ1AF104Z		0.1 10V Ceramic	AB					
C7806	VCKYCY0JB105K		1 6.3V Ceramic	AC					
C7807	VCKYCZ1CB103K		0.01 16V Ceramic	AB	R442	VRS-CZ1JF114J		110k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AB
C7808	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7809	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7810	VCCCCZ1HH470J		47p 50V Ceramic	AB					
C7811	VCKYCZ1HB102K		1000p 50V Ceramic	AB					
C7812	VCCCCZ1HH221J		220p 50V Ceramic	AB	R443	VRS-CZ1JF105J		1M 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
C7813	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7814	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7815	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7816	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7817	VCKYCZ1CB103K		0.01 16V Ceramic	AB	R446	VRS-CZ1JF000J		0 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
C7818	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
C7820	VCKYTV1AB105K		1 10V Ceramic	AD					
C7821	VCKYCZ1HB102K		1000p 50V Ceramic	AB					
C7822	VCKYCZ1CB103K		0.01 16V Ceramic	AB					
RESISTORS									
R152	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R462	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R153	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA	R463	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R154	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA	R467	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R155	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R468	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R219	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA	R471	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R245	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R477	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R246	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R478	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R401	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R701	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R402	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R702	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R403	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R703	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R404	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA	R704	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R406	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA	R705	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R407	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA	R706	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R409	VRS-CZ1JF103J		10k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA	R707	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R410	VRS-CZ1JF103J		10k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA	R708	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R411	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA	R709	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R412	VRS-CZ1JF334J		330k 1/16W Metal Oxide	AA	R710	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R413	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R711	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R414	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R712	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R415	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R713	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R416	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA	R714	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R418	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA	R716	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R429	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R717	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R431	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R718	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R432	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA	R719	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R436	VRS-CZ1JF224J		220k 1/16W Metal Oxide (NZ50E/W(Hong Kong)/ E(Australia, New Zealand)/ NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA	R720	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
					R722	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
					R723	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
					R724	VRS-CZ1JF823D		82k 1/16W Metal Oxide	AB
					R725	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
					R726	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
					R727	VRS-CZ1JF106J		10M 1/16W Metal Oxide	AA
					R728	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
					R729	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
					R730	VRS-CY1JF103J		10k 1/16W Metal Oxide	AA
					R731	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
					R732	VRS-CZ1JF474D		470k 1/16W Metal Oxide	AA
					R733	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
					R734	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
					R735	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R736	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R952	VRS-CZ1JF223D	22k	1/16W Metal Oxide	AB
R737	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R954	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB
R738	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R956	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R739	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R957	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB
R741	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R959	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB
R742	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R960	VRS-CZ1JF331J	330	1/16W Metal Oxide	AA
R743	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R962	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R744	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA	R965	VRS-CZ1JF122D	1.2k	1/16W Metal Oxide	AB
R745	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R966	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R746	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R968	VRS-CZ1JF222D	2.2k	1/16W Metal Oxide	AA
R747	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA	R970	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R748	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R972	VRS-CZ1JF133D	13k	1/16W Metal Oxide	AA
R749	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R973	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R750	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R974	VRS-CZ1JF102D	1k	1/16W Metal Oxide	AA
R751	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R975	VRS-CZ1JF331J	330	1/16W Metal Oxide	AA
R752	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R977	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R753	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R979	VRS-CZ1JF104D	100k	1/16W Metal Oxide	AB
R754	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R980	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R755	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R982	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R756	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R983	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R759	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA	R987	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R760	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R988	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R761	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R989	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R762	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R990	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R763	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R995	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R764	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R996	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R765	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R999	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R766	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1200	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R767	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1402	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R771	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA				(NZ100S/H/E/E(Hong Kong)/	
R772	VRS-CZ1JF474J	470k	1/16W Metal Oxide	AA				E(Australia, New Zealand))	
R779	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R1413	VRS-CZ1JF470J	47	1/16W Metal Oxide	AA
R780	VRS-CY1JF000J	0	1/16W Metal Oxide	AA	R1414	VRS-CZ1JF270J	27	1/16W Metal Oxide	AA
R782	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1438	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R796	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1439	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA
R797	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1440	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R902	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R1441	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R903	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R1442	VRS-CZ1JF750J	75	1/16W Metal Oxide	AA
R904	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA	R1450	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
R905	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R1451	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R906	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R1452	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R907	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA	R1453	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R908	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R1454	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
R909	VRS-CZ1JF562D	5.6k	1/16W Metal Oxide	AB	R1455	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
R910	VRS-CZ1JF272D	2.7k	1/16W Metal Oxide	AB	R1456	VRS-CZ1JF391J	390	1/16W Metal Oxide	AA
R912	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R1457	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
R913	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R1458	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R914	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R1459	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R917	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R1461	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R918	VRS-CZ1JF472D	4.7k	1/16W Metal Oxide	AB	R1462	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R919	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R1463	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R920	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R1464	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
R924	VRS-CZ1JF113D	11k	1/16W Metal Oxide	AA	R1465	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
R926	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB	R1466	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R927	VRS-CZ1JF683D	68k	1/16W Metal Oxide	AB	R1467	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA
R928	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R1471	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R929	VRS-CZ1JF823D	82k	1/16W Metal Oxide	AB	R1480	VRS-CY1JF000J	0	1/16W Metal Oxide	AA
R930	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1481	VRS-CY1JF102J	1k	1/16W Metal Oxide	AA
R931	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1482	VRS-CY1JF102J	1k	1/16W Metal Oxide	AA
R933	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA	R1483	VRS-CY1JF103J	10k	1/16W Metal Oxide	AA
R934	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R1700	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA
R935	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA	R1701	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA
R936	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1702	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R937	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1703	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R938	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R1704	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R939	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R1705	VRS-CZ1JF154J	150k	1/16W Metal Oxide	AA
R940	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB	R1706	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R941	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R1707	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R942	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R1708	VRS-CZ1JF1R0J	1	1/16W Metal Oxide	AA
R943	VRS-CZ1JF303D	30k	1/16W Metal Oxide	AA	R1709	VRS-CZ1JF1R0J	1	1/16W Metal Oxide	AA
R946	VRS-CZ1JF163D	16k	1/16W Metal Oxide	AA	R1710	VRS-CZ1JF1R0J	1	1/16W Metal Oxide	AA
R948	VRS-CZ1JF473D	47k	1/16W Metal Oxide	AB	R1711	VRS-CZ1JF1R0J	1	1/16W Metal Oxide	AA
R949	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA	R1712	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R950	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1713	VRS-CZ1JF331J	330	1/16W Metal Oxide	AA
R951	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1714	VRS-CZ1JF621J	620	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R1715	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2851	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA
R1716	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	R2852	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA
R1717	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA	R2853	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA
R1718	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R2856	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R1719	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2857	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1720	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R2858	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R1721	VRS-CY1JF000J	0	1/16W Metal Oxide	AA	R2859	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
R1722	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R2860	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R1723	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA	R2861	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R1724	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA	R2862	VRS-CZ1JF182D	1.8k	1/16W Metal Oxide	AB
R1725	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	R2863	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
R1726	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA	R2901	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R1727	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2902	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R1728	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA	R2903	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R1729	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	R2905	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
R1911	VRS-CZ1JF180J	18	1/16W Metal Oxide	AA	R2906	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R1912	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R2907	VRS-CY1JF000J	0	1/16W Metal Oxide	AA
R1913	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R2908	VRS-TV2BDR15JY	0.15	1/16W Metal Oxide	AA
R1914	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R2909	VRS-TV1JD1R5J	1.5	1/16W Metal Oxide	AA
R1925	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R2910	VRS-CZ1JF224D	220k	1/16W Metal Oxide	AA
R1927	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA	R2911	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R1929	VRS-CZ1JF223D	22k	1/16W Metal Oxide	AB	R2913	VRS-TW3AF750J	75	1W Metal Oxide	AC
R1930	VRS-CZ1JF152D	1.5k	1/16W Metal Oxide	AB	R2914	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R1931	VRS-CZ1JF472D	4.7k	1/16W Metal Oxide	AB	R2916	VRS-CZ1JF823D	82k	1/16W Metal Oxide	AB
R1940	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R2917	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R1941	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2918	VRS-CZ1JF474J	470k	1/16W Metal Oxide	AA
R1943	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB	R3401	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R1944	VRS-CZ1JF562D	5.6k	1/16W Metal Oxide	AB	R3402	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R1945	VRS-CZ1JF183D	18k	1/16W Metal Oxide	AB	R3404	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R1950	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3406	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R1956	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R3407	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R1957	VRS-CZ1JF682D	6.8k	1/16W Metal Oxide	AB	R3409	VRS-CZ1JF121J	120	1/16W Metal Oxide	AA
R1958	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3410	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA
R1959	VRS-CZ1JF273D	27k	1/16W Metal Oxide	AA	R3411	VRS-CZ1JF391J	390	1/16W Metal Oxide	AA
R1968	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA	R3412	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA
R1969	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3413	VRS-CZ1JF391J	390	1/16W Metal Oxide	AA
R1980	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA	R3414	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R1981	VRS-CZ1JF184J	180k	1/16W Metal Oxide	AA	R3415	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA
R1982	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3416	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA
R1983	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA	R3417	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA
R1984	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R3418	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R1985	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3419	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R1986	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R3420	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R1989	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R3421	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R1990	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R3422	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA
R1991	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3423	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R1992	VRS-CZ1JF331J	330	1/16W Metal Oxide	AA	R3424	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA
R1994	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R3425	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R1995	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R3427	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R1996	VRS-CZ1JF562D	5.6k	1/16W Metal Oxide	AB	R3428	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA
R1997	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3429	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA
R1998	VRS-CZ1JF203D	20k	1/16W Metal Oxide	AA	R3430	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R2801	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA	R3432	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R2802	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3435	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R2803	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	R3436	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R2807	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3437	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R2811	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R3442	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA
R2812	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3445	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R2813	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R3451	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
R2814	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA	R3452	VRS-CZ1JF820J	82	1/16W Metal Oxide	AA
R2815	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3454	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R2818	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3457	VRS-CZ1JF820J	82	1/16W Metal Oxide	AA
R2819	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R3462	VRS-CZ1JF271J	270	1/16W Metal Oxide	AA
R2820	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	R3463	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R2821	VRS-CZ1JF154J	150k	1/16W Metal Oxide	AA	R3468	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA
R2822	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R3469	VRS-CZ1JF390J	39	1/16W Metal Oxide	AA
R2823	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R3470	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R2824	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA	R3471	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R2825	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R3472	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R2829	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA	R3473	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R2830	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R3478	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R2831	VRS-CY1JFR22J	0.22	1/16W Metal Oxide	AA	R3479	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R2833	VRS-CZ1JF102D	1k	1/16W Metal Oxide	AA	R3480	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
R2835	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB	R3481	VRS-CZ1JF680J	68	1/16W Metal Oxide	AB
R2840	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R3482	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	R5702	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R3486	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3487	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R5703	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R3488	VRS-CZ1JF681D	680	1/16W Metal Oxide	AB				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3489	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R5704	VRS-CZ1JF270J		27 1/16W Metal Oxide	AA
R3492	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3493	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA	R5705	VRS-CZ1JF270J		27 1/16W Metal Oxide	AA
R3495	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3496	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R5706	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R3499	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3701	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R5708	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3702	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3703	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R5710	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3704	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3705	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R5711	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3706	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3708	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R5712	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3709	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3710	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R5715	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3713	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3718	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R5716	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R3740	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3741	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	R5717	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R3742	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R3743	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R7401	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R3744	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R7402	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R4401	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7403	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R4402	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7413	VRS-CZ1JF512D		5.1k 1/16W Metal Oxide	AA
R4403	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7415	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R4404	VRS-CZ1JF472D	4.7k	1/16W Metal Oxide	AB	R7416	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R4407	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7417	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R4408	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7418	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R4414	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7419	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R4415	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7420	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R4435	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA	R7422	VRS-CZ1JF392D		3.9k 1/16W Metal Oxide	AB
R4436	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA	R7423	VRS-CZ1JF392D		3.9k 1/16W Metal Oxide	AB
R4451	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R7424	VRS-CZ1JF242D		2.4k 1/16W Metal Oxide	AA
R4453	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA	R7426	VRS-CY1JF000J		0 1/16W Metal Oxide	AA
R4454	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R7427	VRS-CY1JF000J		0 1/16W Metal Oxide	AA
R4456	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA	R7428	VRS-CY1JF000J		0 1/16W Metal Oxide	AA
R4460	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7429	VRS-CY1JF000J		0 1/16W Metal Oxide	AA
R4461	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA	R7810	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R4462	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA	R7811	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R4465	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7812	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R4466	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R7821	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R4474	VRS-CZ1JF152D	1.5k	1/16W Metal Oxide	AB	R7822	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R4478	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R7823	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R4485	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA	R7824	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R4486	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA	R7825	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA
R4487	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA	R7826	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4488	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R7827	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4494	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA				(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	
R4495	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA					
R5701	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA					

**VL-NZ50S/H/E/W/NZ80H
VL-NZ100S/H/E**

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R7828	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	L21	VPD9M100KR86N		Peaking, 10μH	AC
					L551	VPD9M100KR86N		Peaking, 10μH	AC
BALUNES					CAPACITORS				
FB201	RBLN-0049TAZZ		Balun, BLN-0049TA	AD	C21	VCSATJ1VJ685M	6.8	35V Tantalum	AE
FB202	RBLN-0049TAZZ		Balun, BLN-0049TA	AD	C23	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
FB203	RBLN-0049TAZZ		Balun, BLN-0049TA	AD	C24	VCSATE1CJ226M	22	16V Tantalum	AE
FB204	RBLN-0102TAZZY		Balun, BLN-0102TA	AB	C25	VCKYCZ1CB103K	0.01	16V Ceramic	AB
FB408	RBLN-0242TAZZY		Balun, BLN-0242TA	AB	C26	VCKYCZ1CB103K	0.01	16V Ceramic	AB
FB456	RBLN-0102TAZZY		Balun, BLN-0102TA	AB	C27	VCKYCZ1CB103K	0.01	16V Ceramic	AB
FB900	RBLN-0119TAZZ		Balun, BLN-0119TA	AC	C30	VCKYCZ1HB102K	1000p	50V Ceramic	AB
FB901	RBLN-0119TAZZ		Balun, BLN-0119TA	AC	C31	VCKYCZ1CB103K	0.01	16V Ceramic	AB
FB2801	RBLN-0028TAZZ		Balun, BLN-0028TA	AB	C32	VCSATA1AJ106M	10	10V Tantalum	AC
FB3701	RBLN-0049TAZZ		Balun, BLN-0049TA	AD	C51	VCKYTV1AB105K	1	10V Ceramic	AD
			(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))		C52	VCCCCZ1HH101J	100p	50V Ceramic	AB
FB4405	RBLN-0102TAZZY		Balun, BLN-0102TA	AB	C53	VCCCCZ1HH101J	100p	50V Ceramic	AB
FB4461	RBLN-0102TAZZY		Balun, BLN-0102TA	AB	C54	VCKYCZ1CB103K	0.01	16V Ceramic	AB
FB7401	RBLN-0102TAZZY		Balun, BLN-0102TA	AB	C551	VCSATA1CJ106M	10	16V Tantalum	AD
					C552	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
MISCELLANEOUS PARTS					C553	VCCCCZ1HH330J	33p	50V Ceramic	AB
△ CP1	QPRTRA003WJZZY		1A 24V	AD	C554	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
△ CP2	QPRTRA003WJZZY		1A 24V	AD	C555	VCCCCZ1HH101J	100p	50V Ceramic	AB
J1401	QJAKE0052TAZZ		Jack, 6Pin	AF	C556	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
J5701	QJAKEA014WJZZ		Jack, 5Pin	AE	C557	VCCCCZ1HH101J	100p	50V Ceramic	AB
			(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))		C558	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
J7401	QJAKZ0074TAZZ		Jack, 4Pin	AG	C559	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
P901	QPLGN0663TAZZ		Plug, 6Pin	AD	C560	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
P1203	QPLGN0274TAZZ		Plug, 2Pin	AC	C561	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
SC701	QSOCN0624TAN1Y		Socket, 6Pin	AD	C562	VCSATA0JJ106M	10	6.3V Tantalum	AD
SC1201	QSOCN3311TAN1		Socket, 33Pin	AG	C563	VCSATA1AJ106M	10	10V Tantalum	AC
SC1202	QSOCN3311TAN1		Socket, 33Pin	AG	C564	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
SC1204	QSOCN2711TAN1		Socket, 27Pin	AG	C565	VCKYCY1AB224K	0.22	10V Ceramic	AB
			(NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))		C567	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
SC2801	QSOCN2498TAZZY		Socket, 24Pin	AE	C568	VCKYCZ1HB102K	1000p	50V Ceramic	AB
SC2802	QSOCN0907REN1Y		Socket, 9Pin	AD	C569	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
SC900	QCNCW2080TAZZ		Connector, 20Pin	AF	C570	VCCCCZ1HH151J	150p	50V Ceramic	AB
SC3301	QCNCW8080TAZZ		Connector, 80Pin	AH	C571	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
SC3302	QCNCM1052TAZZY		Connector, 10Pin	AE	C572	VCKYCY1HF103Z	0.01	50V Ceramic	AB
SW901	QSW-MA001WJZZY		Switch, Batt_Detect_SW	AD	C573	VCKYCZ1HB221K	220p	50V Ceramic	AA
					C574	VCKYCZ1HB221K	220p	50V Ceramic	AA
DUNTKB249QA00(VL-NZ80H/ NZ100S/H/E/E(HONG KONG)/ E(AUSTRALIA, NEW ZEALAND)) DUNTKB249QA01(VL-NZ50S/H/E/W(HONG KONG)/ E(AUSTRALIA, NEW ZEALAND)) CAMERA HEAD PWB UNIT					RESISTORS				
INTEGRATED CIRCUITS					R21	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA
IC21	VHiUPD16510-1		UPD16510, V_Driver	AR	R22	VRS-CZ1JF271J	270	1/16W Metal Oxide	AA
IC22	VHiMN52A7+-1Q		MN52A7+, Timing Generator	AS	R23	VRS-CZ1JF120J	12	1/16W Metal Oxide	AB
IC51	VHiMB88146A-1		MB88146A, D/A Converter	AH	R24	VRS-CZ1JF120J	12	1/16W Metal Oxide	AB
IC551	VHiUPD16835-1		UPD16835, Lens Driver	AM	R25	VRS-CZ1JF120J	12	1/16W Metal Oxide	AB
IC552	VHiNJM2902V-1		NJM2902V, OP Amp	AD	R26	VRS-CZ1JF390J	39	1/16W Metal Oxide	AA
					R27	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
TRANSISTORS					R28	VRS-CZ1JF390J	39	1/16W Metal Oxide	AA
Q551	VSKTC4075EY-1Y		KTC4075EY	AB	R29	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
Q552	VSKRC402E++-1Y		KRC402E++	AB	R30	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
					R32	VRS-CZ1JF390J	39	1/16W Metal Oxide	AA
DIODE					R51	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB
D551	VHDMC2852/-1		MC2852	AB	R52	VRS-CZ1JF244D	240k	1/16W Metal Oxide	AA
					R53	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
PACKAGED CIRCUIT					R54	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
X21	RCRSZA007WJZZY		Crystal, CRSZA007WJ	AL	R551	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
					R552	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
COILS					R553	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R554	VRS-CY1JF5R6J	5.6	1/16W Metal Oxide	AA
PFIW0085TAZZ			Filter, FIW0085TA	AS	R555	VRS-CY1JF5R6J	5.6	1/16W Metal Oxide	AA
					R556	VRS-CZ1JF180J	18	1/16W Metal Oxide	AA
					R557	VRS-CY1JF5R6J	5.6	1/16W Metal Oxide	AA
					R558	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
					R559	VRS-CY1JF5R6J	5.6	1/16W Metal Oxide	AA
					R560	VRS-CZ1JF180J	18	1/16W Metal Oxide	AA
					R561	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
					R562	VRS-CZ1JF622D	6.2k	1/16W Metal Oxide	AA
					R563	VRS-CZ1JF104D	100k	1/16W Metal Oxide	AB
					R564	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
					R565	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
					R566	VRS-CZ1JF273D	27k	1/16W Metal Oxide	AA
					R567	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
					R568	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code					
R569	VRS-CZ1JF154J	150k	1/16W Metal Oxide	AA	C617	VCKYCY0JB105K	1	6.3V Ceramic (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AC					
R570	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	C618	VCSATE1AJ476M	47	10V Tantalum	AD					
R571	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	C619	VCKYCZ1AB333K	0.033	10V Ceramic	AB					
R572	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	C620	VCKYCZ1CB103K	0.01	16V Ceramic	AB					
R573	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	C621	VCKYCY0JF105Z	1	6.3V Ceramic	AB					
R574	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	C622	VCKYCZ1HB222K	2200p	50V Ceramic	AB					
R575	VRS-CZ1JF274J	270k	1/16W Metal Oxide	AA	C623	VCKYCY0JF105Z	1	6.3V Ceramic	AB					
R576	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA	C624	VCKYCZ1AB333K	0.033	10V Ceramic	AB					
R577	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	C626	VCKYCZ1HB102K	1000p	50V Ceramic	AB					
R578	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA	C627	VCKYCZ1AB333K	0.033	10V Ceramic	AB					
R579	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA	C628	VCKYCZ1AB104K	0.1	10V Ceramic	AB					
R580	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA	C629	VCKYCZ1EB472K	4700p	25V Ceramic	AB					
R581	VRS-CZ1JF274J	270k	1/16W Metal Oxide	AA	C630	VCSATE0JJ107M	100	6.3V Tantalum	AE					
R582	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA	C631	VCKYCZ1CB103K	0.01	16V Ceramic	AB					
R583	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	C632	VCSATA1AJ475M	4.7	10V Tantalum	AC					
MISCELLANEOUS PARTS					C633	VCKYCZ1AB104K	0.1	10V Ceramic	AB					
P51	QPLGN0276TAZZ	Plug, 2Pin		AD	C634	VCKYCZ1HB222K	2200p	50V Ceramic	AB					
P52	QPLGN0274TAZZ	Plug, 2Pin		AC	C635	VCSATA0JJ156M	15	6.3V Tantalum	AC					
SC21	QSOCN3311TAN1	Socket, 33Pin		AG	C636	VCKYCZ1EB472K	4700p	25V Ceramic	AB					
SC53	QCNCW3396TAZZY	Connector, 33Pin		AG	C637	VCKYCZ1AB333K	0.033	10V Ceramic	AB					
SC551	QSOCN2498TAZZY	Socket, 24Pin		AE	C638	VCSATE1AJ476M	47	10V Tantalum	AD					
DUNKB250QA00(VL-NZ100S/H) DUNKB250QA01(VL-NZ100E/E(HONG KONG)/ E(AUSTRALIA, NEW ZEALAND)) DUNKB250QA02(VL-NZ50S/H/E/W(HONG KONG)/ E(AUSTRALIA, NEW ZEALAND)) DUNKB250QA04(VL-NZ80H) AUDIO I/O PWB UNIT					C639	VCKYCY0JF105Z	1	6.3V Ceramic	AB					
					C640	VCSATA0JJ226M	22	6.3V Tantalum	AD					
					C641	VCKYCZ1AF104Z	0.1	10V Ceramic	AB					
					C642	VCKYCZ1AF104Z	0.1	10V Ceramic	AB					
					C643	VCKYTV1AB105K	1	10V Ceramic	AD					
					C644	VCSATA0JJ226M	22	6.3V Tantalum	AD					
					C2602	VCKYCZ1CB103K	0.01	16V Ceramic	AB					
					C2605	VCCCZ1HH101J	100p	50V Ceramic	AB					
					C2606	VCCCZ1HH101J	100p	50V Ceramic	AB					
					C2607	VCKYCZ1AF104Z	0.1	10V Ceramic	AB					
					C2608	VCKYTV1AB105K	1	10V Ceramic	AD					
					C2609	VCKYTV1AB105K	1	10V Ceramic	AD					
					C2610	VCKYCZ1HB102K	1000p	50V Ceramic	AB					
					C2611	VCKYCZ1HB102K	1000p	50V Ceramic	AB					
					INTEGRATED CIRCUITS					RESISTORS				
					IC601	VHIBH7761KV-1	BH7761KV, Audio I/O		AS	FB602	VRS-CY1JF000J	0	1/16W Metal Oxide (NZ80H/NZ100S/H)	AA
					IC2601	VHiMB88146A-1	MB88146A, I/O Expander D/A Converter		AH	R603	VRS-CZ1JF103J	10k	1/16W Metal Oxide (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
					TRANSISTORS					R604	VRS-CZ1JF103J	10k	1/16W Metal Oxide (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
					Q601	VSFMG12////-1	FMG12		AD	R605	VRS-CZ1JF103J	10k	1/16W Metal Oxide (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AA
					Q602	VSFMG12////-1	FMG12 (NZ80H/NZ100S/H)		AD	R606	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
Q603	VSKRC404E+++1Y	KRC404E++ (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))		AB	R607	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA					
Q604	VSHN2A01FU/-1	HN2A01FU (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))		AC	R608	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA					
Q605	VSKRX203U+++1Y	KRX203U++		AB	R609	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA					
COILS					R610	VRS-CZ1JF121J	120	1/16W Metal Oxide (NZ80H/NZ100S/H)	AA					
L601	VPD9M100KR86N	Peaking, 10μH		AC	R611	VRS-CZ1JF121J	120	1/16W Metal Oxide (NZ80H/NZ100S/H)	AA					
L602	VPD9M470K4R1N	Peaking, 47μH		AC	R612	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA					
CAPACITORS					R613	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA					
C602	VCKYCZ1HB332K	3300p 50V Ceramic (NZ80H/NZ100S/H)		AA	R614	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA					
C603	VCKYCZ1HB332K	3300p 50V Ceramic (NZ80H/NZ100S/H)		AA	R615	VRS-CZ1JF563J	56k	1/16W Metal Oxide (NZ80H/NZ100S/H)	AA					
C607	VCKYTV1CF225Z	2.2 16V Ceramic		AC	R616	VRS-CZ1JF563J	56k	1/16W Metal Oxide (NZ80H/NZ100S/H)	AA					
C608	VCKYTV1CF225Z	2.2 16V Ceramic		AC	R617	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA					
C609	VCKYCZ1HB102K	1000p 50V Ceramic		AB	R618	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA					
C610	VCKYCZ1HB102K	1000p 50V Ceramic		AB	R619	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA					
C611	VCKYCY0JF105Z	1 6.3V Ceramic		AB	R620	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA					
C612	VCKYCZ1AB104K	0.1 10V Ceramic		AB	R621	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA					
C613	VCKYCY0JB105K	1 6.3V Ceramic (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))		AC	R622	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA					
C614	VCKYCZ1AB104K	0.1 10V Ceramic		AB	R623	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA					
C615	VCSATA0JJ226M	22 6.3V Tantalum (NZ80H/100S/H)		AD	R624	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA					
C616	VCSATA0JJ226M	22 6.3V Tantalum (NZ80H/NZ100S/H)		AD	R625	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA					
					R626	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA					

VL-NZ50S/H/E/W/NZ80H
VL-NZ100S/H/E

Ref. No.	Part No.	★	Description	Code
R627	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R628	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
R629	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R630	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R631	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R632	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
R633	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA
R634	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
R635	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R637	VRS-CZ1JF106J	10M	1/16W Metal Oxide	AA
R638	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R639	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
(NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand/NZ80H))				
R640	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R641	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R642	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R643	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R645	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
(NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand/NZ80H))				
R2601	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2606	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2608	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R2609	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2610	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2611	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2612	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2613	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2614	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2615	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2616	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2617	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2619	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2620	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2621	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2622	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2623	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2624	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2625	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2626	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2627	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2628	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2629	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2630	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA

BALUNES

R601	RBLN-0029TAZZY	Balun, BLN-0029TA (NZ80H/NZ100S/H)	AB
R602	RBLN-0029TAZZY	Balun, BLN-0029TA (NZ80H/NZ100S/H)	AB
R644	RBLN-0029TAZZY	Balun, BLN-0029TA (NZ80H/NZ100S/H)	AB

MISCELLANEOUS PARTS

P601	QPLGN0276TAZZ	Plug, 2Pin	AD
J601	QJAKE0060TAZZ	Jack, 4Pin (NZ80H/NZ100S/H)	AE
SC2601	QSOCN1090TAZZY	Socket, 10Pin	AD
SC2602	QSOCN1160TAZZ	Socket, 11Pin	AD
SC2604	QCNCW3396TAZZY	Connector, 33Pin	AG

**DUNTKB191PM02(VL-NZ80H/NZ100S/H/E/
E(HONG KONG)/
E(AUSTRALIA, NEW ZEALAND))
CARD PWB UNIT**

TRANSISTORS

Q1501	VSKTA2014EY-1Y	KTA2014EY	AB
Q1502	VSHN2C01FU/-1	HN2C01FU	AC

Ref. No.	Part No.	★	Description	Code
CAPACITORS				
C1501	VCSATA0JJ336M	33	6.3V Tantalum	AD
C1502	VCKYCYZ1CB103K	0.01	16V Ceramic	AB
C1503	VCKYCYZ1AF104Z	0.1	10V Ceramic	AB
RESISTORS				
R1501	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1502	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1504	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1505	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1506	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1507	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R1508	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
R1509	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
R1510	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R1511	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R1512	VRS-CZ1JF222D	2.2k	1/16W Metal Oxide	AA
R1513	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R1514	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB

MISCELLANEOUS PARTS

SC1501	QSOCZ0075TAZZY	Socket, 15Pin	AM
SC1502	QCNCW2796TAZZ	Connector, 27Pin	AG
SW1501	QSW-MA001WJZZY	Switch	AD

**DUNTKB192QA00
INVERTER PWB UNIT**

TRANSISTOR

Q9801	VSCPH5504+++1Y	CPH5504++	AE
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COIL AND TRANSFORMER

L9801	RCILP0349TAZZY	Coil, 33µH	AD
△ T9800	RTRNZ0166TAZZY	Transformer	AK

CAPACITORS

C9800	RC-KZ0055TAZZ	3.3	16V Ceramic	AD
C9802	VCKYCYZ1AF104Z	0.1	10V Ceramic	AB
C9807	RC-CZ0061TAZZY	0.022	25V Ceramic	AD
C9810	VCKYCY1HB332K	3300p	50V Ceramic	AA
C9812	RC-KZ0351CEZZ	18p	3kV Ceramic	AD

RESISTORS

R9803	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R9804	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R9808	VRS-CZ1JF271D	270	1/16W Metal Oxide	AB
R9809	VRS-CZ1JF271D	270	1/16W Metal Oxide	AB

MISCELLANEOUS PARTS

BAT9801	QTANS9045TAFW	Li Batt Terminal	AC
BAT9802	QTANS9046TAFW	Li Batt Terminal	AC
SC9801	QSOCN0924TAN1Y	Socket, 9Pin	AD
SC9802	QCNCWA021WJZZY	Connector, 4Pin	AE
SW9800	QSW-M0018TAZZ	Switch, Eject SW	AC

**DUNTKB193PM00
OPERATION PWB UNIT**

CAPACITOR

C2001	VCKYCYZ1AF104Z	0.1	10V Ceramic	AB
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RESISTORS

R2001	VRS-CZ1JF750J	75	1/16W Metal Oxide	AA
R2002	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
R2003	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

RMC2001	RRMCU0021TAZZY	Remote Receiver	AK
SC2001	QSOCN0624TAN1Y	Socket, 6Pin	AD

Ref. No.	Part No.	★	Description	Code
SW2001	QSW-K0100TAZZ		Switch	AC
SW2002	QSW-K0100TAZZ		Switch	AC
SW2003	QSW-K0100TAZZ		Switch	AC

**DUNTKB246PM00
DC JACK PWB UNIT**

LED				
D2900	RH-PXA018WJZZY		PhotoDiode, PXA018WJ	AC
COIL				
L2900	RCiLFA009WJZZY		Coil, CiLFA009WJ	AG
MISCELLANEOUS PARTS				
J2900	QCNW-A392WJZZ		Connecting Cord	AE
P2900	QJAKCA002WJZZY		Jack, 3Pin	AE
P2900	QPLGN0658REZZ		Plug, 6Pin	AD

**DUNTKB248PM00
CCD UNIT**

INTEGRATED CIRCUIT				
IC101	VHiCXA2096N-1		CXA2096N, CDS/AGC	AQ
TRANSISTOR				
Q1	VS2SC5384C/-1		2SC5384C	AB
COIL				
L101	VPD9M100KR86N		Peaking, 10µH	AC
CAPACITORS				
C9	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C11	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C12	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C13	VCKYCY1EB104KY	0.1	25V Ceramic	AB
C14	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C15	VCSATE1VJ335M	3.3	35V Tantalum	AD
C101	VCSATA0JJ336M	33	6.3V Tantalum	AD
C102	VCKYTV1CB105K	1	16V Ceramic	AC
C103	VCKYTV1CB105K	1	16V Ceramic	AC
C104	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C105	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C106	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C107	VCSATA0JJ106M	10	6.3V Tantalum	AD
C108	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C109	VCKYCZ1EF223Z	0.022	25V Ceramic	AB
C110	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C111	VCSATA0JJ106M	10	6.3V Tantalum	AD
C112	VCKYCZ1CB103K	0.01	16V Ceramic	AB
RESISTORS				
R1	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R8	VRS-CY1JF000J	0	1/16W Metal Oxide	AA
R9	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA
R101	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R102	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R103	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R104	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R105	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R106	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R107	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R108	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
MISCELLANEOUS PART				
SC101	QCNCW3396TAZZY		Connector, 33Pin	AG

Ref. No.	Part No.	★	Description	Code
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**RAMP-0035TAN4
HEAD AMP PWB UNIT**

INTEGRATED CIRCUITS				
IC301	VHiBH7275KV-1		BH7275KV, REC/PB Amp IC	AU
IC302	VHiM24C04W6-1		M24C04W6, E ² PROM IC	AE

TRANSISTORS				
Q302	VS2SC4738Y/-1		2SC4738Y	AA
	or			
	VS2SC4617B/-1		2SC4617B	AA
	or			
	VS2SC5383F/-1		2SC5383F	AB
Q303	VS2SC4738Y/-1		2SC4738Y	AA
	or			
	VS2SC4617B/-1		2SC4617B	AA
	or			
	VS2SC5383F/-1		2SC5383F	AB

COIL				
L301	VPAWM4R7MR70N		Coil, 4.7µH	AC

CAPACITORS				
C301	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C302	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C303	VCSATE1AJ336M	33	10V Tantalum	AG
C304	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C305	VCCCCY1HH331J	330p	50V Ceramic	AA
C306	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C307	VCCCCY1HH331J	330p	50V Ceramic	AA
C308	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C309	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C310	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C311	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C312	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C313	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C314	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C315	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C318	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C319	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C320	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C321	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C322	VCKYCY0JB105K	1	6.3V Ceramic	AC
C323	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C324	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C327	VCKYCZ1EB472K	4700p	25V Ceramic	AB
C329	VCSATA1AJ106M	10	10V Tantalum	AC
C330	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C331	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C332	VCKYCZ1EB472K	4700p	25V Ceramic	AB
C333	VCKYCZ1CB822K	8200p	16V Ceramic	AB
C340	VCCCCZ1HH5ROC	5p	50V Ceramic	AC
C342	VCCCCZ1HH5ROC	5p	50V Ceramic	AC
C343	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C344	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C345	VCKYCZ1AF104Z	0.1	10V Ceramic	AB

RESISTORS				
R304	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R308	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R309	VRS-CZ1JF512J	5.1k	1/16W Metal Oxide	AB
R310	VRS-CZ1JF433J	43k	1/16W Metal Oxide	AA
R311	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R312	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R313	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
R314	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R315	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R316	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R317	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA
R318	VRS-CZ1JF513J	51k	1/16W Metal Oxide	AA
R319	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R320	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R321	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R324	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	MECHANISM PARTS				
R330	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA	301	LCHSM0181GEZZ		Main Chassis Ass'y	AQ
R332	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	302	MLEVF0539GEFW		Eject Control Lever	AD
R333	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	303	MLEVF0502GEFW		Pinch Control Lever	AD
R377	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	304	NGERH3062GEFW		Main Cam	AD
R380	VRS-TV1JD100J	10	1/16W Metal Oxide	AA	305	MLEVF0503GEZZ		Shifter Drive Lever Ass'y	AE
MISCELLANEOUS PARTS					306	MLEVF0505GEFW		Loading Lever	AD
P306	QCNCM8082TAZZ		Plug, 80Pin	AK	307	MARMM0130GEZZ		S Loading Arm Ass'y	AF
SC301	QSOCN0925TAN1		Connector, 9Pin	AE	308	MARMM0131GEZZ		Tu Loading Arm Ass'y	AF
SC303	QSOCN1006TAN1		Connector, 10Pin	AE	309	MLEVF0508GEFW		T Arm Control Lever	AD
SC304	QSOCN0706TAN1		Connector, 7Pin	AE	311	LANGG9121GEFW		CAP FPC Stopper	AD
SC305	QSOCN2071TAZZ		Connector, 20Pin	AD	312	LANGF9016GEZZ		Intermediate Gear	AG
SC306	QSOCN1871TAZZ		Connector, 18Pin	AE				ANG Ass'y	
					313	MARMM0132GEZZ		Swing Arm Ass'y	AG
					314	LANGJ0055GEFW		Mechanism Fixing Angle	AH
					315	LANGJ0054GEFW		Head amp PWB ANG	AE
					324	RDTCH0039GEZZ		Dew Sensor	AD
					330	CCHSS0050GE03		Sensor FPC Affixing Slide	AY
								Chassis	
					331	LCHSS0050GEZZ		Slide Chassis Ass'y	AN
					332	CPWBH6079GE01		Sensor FPC Ass'y	AV
					334	LHLDP0104GEZZ		S-LED Holder	AC
					335	LHLDP0105GEZZ		Tu-LED Holder	AC
					337	LHLDZ0115GEZZ		Sensor FPC Guide	AC
					338	QSW-M0035TAZZ		Down SW	AC
					339	QTANZ0006GEZZ		Mic Contact SW	AG
					340	RH-PX0180TAZZ		Cassette LED	AE
					341	RH-PX0211TAZZY		S/E Sensor	AD
					342	RDTCM0006TAZZ		Reel Sensor	AC
					344	LANGG9124GEFW		Slide Adjustment ANG	AC
					345	LANGG9126GEFW		Down Guide	AE
					347	TLABH0590GEZZ		Cassette Control Caution	AB
								Label	
					351	MLEVF0542GEZZ		Tension Arm Ass'y	AG
					352	MLEVF0511GEZZ		Tu Guide Arm Ass'y	AG
					353	MLEVF0512GEZZ		Brake Shifter Ass'y	AE
					354	LBNDK3022GEZZ		Tension Band Ass'y	AF
					355	LANGA0073GEZZ		Reel Cover Ass'y	AG
					356	LANGJ0038GEFW		T Spring Hanging ANG	AC
					357	MLEVP0302GEZZ		Swing Arm Release Lever	AC
					360	MLEVP0329GEZZ		Eject Lever	AC
					361	MLEVP0296GEZZ		Pinch Drive Lever	AB
					362	PGiDM0156GEZZ		Guide Rail	AC
					363	PGiDM0186GEZZ		T Arm Control Lever	AC
								Stopper	
					364	NGERH1300GEZZ		Intermediate Gear A Ass'y	AE
					365	NGERH1301GEZZ		Intermediate Gear B Ass'y	AB
					366	NPLYV0164GEZZ		Intermediate Pulley Ass'y	AC
					367	NPLYV0165GEZZ		Center Pulley Ass'y	AC
					369	NGERH1302GEZZ		AHC Cam	AB
					370	NGERH1303GEZZ		Coupling Gear	AB
					371	NGERH1304GEZZ		Sub Cam	AC
					372	NGERH1305GEZZ		S Loading Gear	AC
					373	NGERH1306GEZZ		Tu Loading Gear	AC
					374	MLEVP0333GEZZ		S Main Brake	AC
					375	MLEVP0309GEZZ		Tu Main Brake	AB
					376	LHLDX1046GEZZ		S Cassette Stay	AC
					377	LHLDZ2024GEZZ		FPC Cover	AB
					381	PGiDP0031GEFW		Tu Pole	AD
					382	PGiDS0046GEFW		T Roller Upper Flange	AE
					383	PGiDS0047GEFW		T Roller Bottom Flange	AE
					384	NSFTL0761GEFW		T Roller Inner	AE
					385	PGiDP0042GEFW		S Guide Sleeve	AD
					386	PGiDM0170GEZZ		Slide Chassis Guide	AC
					390	MSPRD0184GEFJ		Swing Arm Release SPR.	AC
					391	MSPRT0417GEFJ		Main Brake SPR.	AB
					392	MSPRT0436GEFW		T Arm SPR.	AB
					393	MSPRD0178GEFJ		Tu Guide Arm SPR.	AB
					394	MSPRD0179GEFJ		Pinch Lever Return SPR.	AB
					395	MSPRD0180GEFJ		S Pressure SPR.	AB
					396	MSPRD0181GEFJ		Tu Pressure SPR.	AB
					397	MSPRC0220GEFJ		Guide Adjustment SPR.	AA
					398	MSPRC0221GEFJ		Drum Fixing SPR.	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
399	MSPRP0185GEZZ		PB Guide SPR.	AC					
401	LX-WZ1071GE02		CW ø 0.7 ø 1.8t0.1	AC					
402	LX-WZ1104GE06		CW ø 0.7 ø 2.2t0.25	AB					
403	LX-WZ1029GE00		CW ø 1.2 ø 3t0.25	AA					
411	LZ-WZ1105GE00		W ø 1.2 ø 2.5t0.13	AA	1	PLNSA0145TAN2		Lens Unit	BT
412	LZ-WZ1106GE00		W ø 1.2 ø 2.5t0.2	AA	2-1-1	LANGK0661TAFW		Lens Fixing Angle	AH
413	XWHJZ12-03025		W ø 1.2 ø 2.5t0.3	AA	2-1-2	LANGK0675TAZZ		Tripod Fixing Angle	AL
414	XWHJZ12-04025		W ø 1.2 ø 2.5t0.4	AA	2-2	DUNTKB249QA00		Camera Head PWB Unit (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	—
415	XWHJZ12-05025		W ø 1.2 ø 2.5t0.5	AA	2-2	DUNTKB249QA01		Camera Head PWB Unit (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	—
420	LX-BZ3202GEFF		Swing Arm Release Lever Fixing Screw	AC	2-3	DUNTKB250QA00		Audio I/O PWB Unit (NZ100S/H)	—
421	LHLDZ2025GEZZ		Intermediate Gear Stopper	AB	2-3	DUNTKB250QA01		Audio I/O PWB Unit (NZ100E/E(Hong Kong)/ E(Australia, New Zealand))	—
425	LX-BZ0107GEFF		Special Screw M1.2 x L1	AB	2-3	DUNTKB250QA02		Audio I/O PWB Unit (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	—
426	LX-BZ0108GEFF		Special Screw M1.2 x L3.3	AA	2-3	DUNTKB250QA04		Audio I/O PWB Unit (NZ80H)	—
428	LX-NZ0102GEFFW		S Guide Hexagon Nut	AC	2-4	PSLDM9194TAZZ		Camera PWB Shield Plate	AC
429	LX-BZ3203GEFF		Type 1 Minuteness Screw M1.4 x L1	AB	3	CCABC6118TAK1		KS Camera Front Cabinet	AS
430	LX-BZ3185GEFN		Special Screw M1.4 x L2	AB	3-2	GCOVA1835TASA		Front Grip Cover	AG
431	LX-BZ3135GEFF		Type 2 Minuteness Screw M1.4 x L1	AA	3-3	GCOVA1868TAKA		Lens Decoration Cover	AG
432	LX-BZ3201GEFF		Special Head Screw M1.4 x L2	AB	3-4	HiNDP0247TASA		Lens Hood Nameplate	AD
433	LX-BZ3132GEFF		Special Head Screw M1.4 x L1.5	AA	3-5	LANGK0684TAFW		Decoration Cover Fixing Angle	AD
434	LX-BZ3131GEFN		Special Screw M1.4 x L1.6	AA	3-6	LHLDZ1653TAZZ		Camera Front Cabinet Holder	AC
435	LX-HZ3089GEFF		S Tight Screw M1.4 x L2	AA	4-1	DCOVA1843TAK3		KS Microphone Cover Service	AQ
436	LX-HZ3076GEFF		S Tight Screw M1.4 x L3	AA	4-1-2	GCOVA1872TASA		Still Button Cover	AE
437	LX-HZ3088GEFF		L Motor Installation Screw	AB	4-1-3	JBTN-0369TASA		Still Button	AG
438	LX-BZ3225GEFF		Drum Installation Screw	AC	4-1-4	QEARP0329TAZZ		Microphone Grill Earth Sheet	AD
439	LX-BZ3181GEFN		GR Lock Screw	AD	4-1-5	QEARP0330TAFW		Still Button Earth Plate	AC
440	LX-HZ3084GEFF		S Tight Screw M1.4 x L4	AC	4-2	HDECA0705TASA		Microphone Grill	AK
451	LPOLM0065GEZZ		Sup Pole Base Ass'y	AK	4-3	LHLDZ1640TAZZ		Microphone Holder	AC
452	LPOLM0066GEZZ		Tu Pole Base Ass'y	AK	4-4	PFLT-0039TAZZ		Microphone Spacer	AB
453	CGIDM0158GE03		Drum Base Ass'y	AH	4-5	PMLT-0239TAZZ		Microphone Molt	AB
454	NROLM0046GEZZ		Guide Roller Ass'y	AM	4-6	PMLT-0240TAZZ		Microphone Sound Isolation Moil	AB
455	NROLM0045GEZZ		T Roller Ass'y	AK	4-7	RMiCC0108TAZZ		Microphone Unit	AP
456	NDaIV1076GEZZ		S Reel Base Ass'y	AM	4-8	ZTAPEZ800010E		Microphone Lead Wire Tape	AA
457	NDaIV1077GEZZ		Tu Reel Base Ass'y	AK	5-1	DCOVA1823TAK1		KS Camera Side Cover Service	AK
458	MLEVF0526GEZZ		Pinch Lever Ass'y	AP	5-1-2	QEARP0344TAZZ		Speaker Earth Sheet	AB
459	NBLTT0016GEZZ		Drive Belt	AD	5-2	LANGK0513TAFW		Speaker Hold Angle	AC
461	RMOTM1080GEZZ		L Motor Ass'y	AQ	5-3	VSP0020P-918N		Speaker	AL
462	RMOTV1023GEZZ		Capstan Motor	AY	6-1	DCABDA001WJK1		KS Camera Rear Cabinet Service(NZ80H/NZ100S/H)	AU
463	QSW-R0039GEZZ		Mode SW	AE	6-1	DCABD6126TAK1		KS Camera Rear Cabinet Service(NZ50S/H/E/W(Hong Kong))	AP
465	QPWBH5911GEZZ		LM/Mode FPC	AG	6-1	DCABD6128TAK1		KS Camera Rear Cabinet Service(NZ100E)	AT
466	PDMP-0032GEZZ		Damper	AF	6-1-2	GFTAS1018TAKA		Card Lid (NZ80H/NZ100S/H/E)	AH
470	DDRMV0069GE03		Drum Ass'y	BZ	6-1-3	GMADI0038TASA		Card Lid Window (NZ80H/NZ100S/H/E)	AD
500	RAMP-0035TAN4		Head Amp PWB Unit	—	6-1-4	JBTN-0368TASA		Camera Operation Button	AE
501	PSLDM3352TAFW		H/A FPC Shield Plate	AX	6-1-5	JKNBP0233TASA		Card Lid Knob (NZ80H/NZ100S/H/E)	AC
502	LANGG9125GEFFW		Sensor FPC Cover	AC	6-1-6	LANGK0659TAZZ		Card Lid Shaft Angle (NZ80H/NZ100S/H/E)	AE
CASSETTE CONTROL PARTS					6-1-7	LHLDZ1641TA00		Card Lid Lock (NZ80H/NZ100S/H/E)	AC
600	CHLDX3093GE01		Cassette Control Ass'y	AT	6-1-8	LHLDZ1642TAZZ		Card Lid Lock Holder (NZ80H/NZ100S/H/E)	AC
601	LHLDX3093GEZZ		Housing Ass'y	AT	6-1-9	MSPRD0089TAFJ		Card Lid Shaft Spring (NZ80H/NZ100S/H/E)	AB
602	LANGF9655GEZZ		Top Cover Ass'y	AG					
603	MSPRT0434GEFJ		Lock SPR	AB					
604	MSPRT0435GEFJ		UP-SPR	AB					
610	TLABH0589GEZZ		Cassette Control Lock Label	AB					
434	LX-BZ3131GEFN		Special Screw M1.4 x L1.6	AA					

CABINET PARTS LIST

VL-NZ50S/H/E/W/NZ80H
VL-NZ100S/H/E

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
6-1-10	MSPRT0064TAFJ		Card Lid Knob Spring (NZ80H/NZ100S/H/E)	AA	16-1	CCOVA1864TAK2		KS Terminal Side Cover (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	AM
6-1-11	NSFTZ0178TAFW		Card Lid Shaft (NZ80H/NZ100S/H/E)	AA	16-1-2	GCOVA1866TASA		LED Cover	AC
6-1-12	PMLT-0241TAZZ		Card Lid Spacer (NZ80H/NZ100S/H/E)	AA	16-2	DUNTKB246PM00		DC Jack PWB Unit	—
6-1-13	PMLT-0242TAZZ		Operation Button Blindfold Spacer	AC	16-3	GCOVH1297TASA		AV Terminal Cover	AF
6-1-14	LANGK0685TAFW		Rear Grip Cover Fixing Angle(NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	AD	16-4	LANGK0683TAFW		AV Terminal Fixing Angle	AF
6-2	LANGK0660TAFW		Rear Cabinet Fixing Angle	AD	17	CCABB6263TAK3		KS LCD Cabinet (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AV
6-3	QSW-ZA003WJZZ		Camera Operation Unit	AY	17	CCABB6268TAK3		KS LCD Cabinet (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	AV
7-1	DCOVA3126TA01		Tilt Frame V Service	AY	17-2	GCOVA1827TAKA		LCD Mask	AL
7-1-2	LANGK0665TAFW		Tilt Frame C	AK	17-3	GCOVA1828TAZZ		R/C Light Reception Cover	AD
7-1-3	LANGK0666TAFW		Stopper Angle	AC	17-4	HBDGB0063TASA		Sharp Badge	AG
7-1-4	PSHEP0252TAZZ		Tilt Insulation Sheet	AA	17-5	JBTN-0370TASA		VCR Operation Button	AC
7-1-5	PSPA0410TAZZ		Tilt Spacer	AF	17-6	PSPA04027WJZZ		Covering spacer	AB
7-1-6	PSPA0411TAZZ		Nolgraido	AF	17-7	PTPEH0077TAZZ		LCD Mask Fitting Tape	AE
7-1-7	QEARP0333TAFW		Tilt Earth Plate	AB	17-8	QEARP0332TAFW		VCR Operation Earth Plate	AD
7-1-8	QEARP0343TAFW		Tilt C Earth Plate	AC	18-1	DCOVA1865TAK1		Battery Cover Service	AN
7-2	LHLDZ1645TAZZ		FPC Holder	AD	18-1-2	JBTN-0367TASA		Battery Detection Switch Button	AC
7-3	PFLT-0040TAZZ		Wire Fitting Tape	AA	18-1-3	JKNBP0235TASA		Battery Lock Knob	AC
7-4	PGiDH0015TAFW		FPC Guide	AC	18-1-4	LANGK0667TAFW		Battery Lock Fixing Angle	AD
7-5	PMLT-0249TAZZ		Sound Isolation Spacer B	AA	18-1-5	MSPRC0152TAFJ		Battery Lock Spring	AA
7-6	QCNW-2060TAZZ		Power Cable(2pin)	AD	18-1-6	MSPRP0229TAFW		Battery Detection Switch Button Spring	AC
7-7	QSW-Z0376TAZZ		Turn SW Unit	AF	18-1-7	PMLT-0252TAZZ		Blindfold Sheet	AB
7-8	CPWBHB195WJ01		Tilt FPC(NZ80H/ NZ100S/H/E)	AU	18-2	QTANZ0152TAZZ		Battery Terminal Unit	AN
7-8	CPWBHB247WJ01		Tilt FPC(NZ50S/H/E)	AR	19-1	CANGK0652TA01		KS LCD Earth Plate	AF
7-9	QCNW-A637WJZZ		Lug Cable	AC	19-1-1	LANGK0652TAFW		LCD Earth Plate	AE
7-10	ZTAPEZ800010E		Spacer Tape	AA	19-1-2	PSHEP0228TAZZ		LCD Insulation Sheet	AB
8	DUNTKB191PM02		Card PWB Unit (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	—	19-2	CHLDZA005WJ01		KS LCD Holder	AF
9	GCOVA1869TAKA		Shoe Cover	AF	19-2-1	LHLDZA005WJZZ		LCD Holder	AE
10	PMLT-0248TAKA		Sound Isolation Spacer A	AB	19-2-2	PSHEP0233TAZZ		LCD Fitting Sheet	AB
11	PSHEP0249TAZZ		SP Lead Wire Sheet (NZ80H/100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AC	19-3	KLMPV0061TAZZ		Lamp Unit	AS
13	QSW-ZA004WJZZ		Power SW Unit	AW	19-4	PGiDM0037TAZZ		Light Guide Plate	AG
14	CCABA6230TAK7		KS V Frame(NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	BC	19-5	PMiR-0021TAZZ		Reflection Sheet	AC
14	CCABA6230TAK8		KS V Frame(NZ50S/H/E/ W(Hong Kong)/ E(Australia, New Zealand))	BC	19-6	PSHEP0044TAZZ		Prism Sheet	AG
14	CCABA6230TAK9		KS V Frame(NZ80H)	BC	19-7	PSHEP0045TAZZ		Diffusion Sheet	AD
14-2	GCOVAA006WJKA		Cassette Lid Decoration Cover B	AA	19-8	PSHEP0259TAZZ		Insulation Sheet	AC
14-3	GCOVA1862TAKA		Cassette Lid Cover	AK	19-9	RLCDV0069TAZZ		LCD Panel	BT
14-4	GFTACA001WJKA		Cassette Lid(NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AN	20	DUNTKB259QA01		Main PWB Unit (NZ100S)	—
14-4	GFTACA002WJKA		Cassette Lid(NZ50S/H/E/ W(Hong Kong)/ E(Australia, New Zealand))	AM	20	DUNTKB259QA02		Main PWB Unit (NZ100H)	—
14-4	GFTACA005WJKA		Cassette Lid(NZ80H)	AM	20	DUNTKB259QA03		Main PWB Unit (NZ100E/E(Hong Kong)/ E(Australia, New Zealand))	—
14-5	HBDGB0053TASA		Sharp Badge	AF	20	DUNTKB259QA05		Main PWB Unit(NZ50S)	—
14-6	JKNBP0238TASA		Cassette Lid Open Knob	AC	20	DUNTKB259QA06		Main PWB Unit(NZ50H)	—
14-7	LANGK0669TAZZ		Lid Lock Ass'y	AM	20	DUNTKB259QA07		Main PWB Unit (NZ50E/E(Australia, New Zealand))	—
14-8	LSTYM0037TAZZ		Stay L Ass'y	AL	20	DUNTKB259QA08		Main PWB Unit (NZ50W(Hong Kong))	—
14-9	LSTYM0038TAZZ		Stay R Ass'y	AR	20	DUNTKB259QA09		Main PWB Unit(NZ80H)	—
14-10	PMLT-0253TAZZ		Dust Protection Spacer	AB	21	DUNTKB192QA00		Inverter PWB Unit	—
14-11	PMLT-A004WJZZ		Dust Protection Spacer	AB	22	DUNTKB193PM00		VCR Operation Unit	—
14-12	PSPAG0138TA00		Floating Rubber	AC	23	CPWBH2876TA01		H/A PWB=Main PWB FPC	AS
14-13	TLABH0458TAZZ		Lithium Exchange Label	AC	24	LANGK0668TAFW		Lid Lock Catch Angle	AE
15	CANGK0651TA01		KS Radiation Angle	AH	25	PSHEPA006WJZZ		Insulation Sheet	AC
15-2	PSHEP0234TAZZ		Radiation Sheet	AC	26	QPWBHB196WJZZ		Inverter PWB=Main PWB FPC	AD
16-1	CCOVA1863TAK2		KS Terminal Side Cover (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AM	27	QPWBHB197WJZZ		VCR Operation=Main PWB FPC	AD
					28	GCOVA1867TAKA		Adjustment Connect Cover	AF
					29	LHLDZ1028TASA		Lithium Holder	AD
					30	TLABMA011WJZZ		Model Label(NZ50S)	AE
					30	TLABMA012WJZZ		Model Label(NZ50H)	AD
					30	TLABMA013WJZZ		Model Label(NZ50E)	AD
					30	TLABMA014WJZZ		Model Label (NZ50W(Hong Kong))	AD

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
30	TLABMA015WJZZ		Model Label(NZ100S)	AD	SUPPLIED ACCESSORIES				
30	TLABMA016WJZZ		Model Label(NZ100H)	AD					
30	TLABMA017WJZZ		Model Label(NZ100E)	AD	ACCESSORIES				
30	TLABMA018WJZZ		Model Label (NZ100E(Hong Kong))	AD					
30	TLABMA022WJZZ		Model Label(NZ80H)	AD	△	QACCB0016TAZZ		AC Cable (NZ50H/W(Hong Kong)/ NZ80H/NZ100H/E(Hong Kong))	AV
30	TLABMA050WJZZ		Model Label (NZ100E(Australia, New Zealand))	AD	△	QACCK0006TAZZ		AC Cable (NZ50S/E/NZ100S/E)	AL
30	TLABMA051WJZZ		Model Label (NZ50E(Australia, New Zealand))	AD		QCNW-A338WJZZ		USB Cable (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AL
31	GCOVA1874TASA		Rear Grip Cover (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand))	AF		QCNW-1979TAZZ		AV Cable	AK
a	LX-HZ0050TAFN		M1.7-4 N	AA		RRMCG0084TASA		Remote Control (NZ100S/H/E/E(Hong Kong)/ E(Australia, New Zealand))	AN
c	XiPSN17P03000		M1.7-3 N	AA		UADP-0342TAZZ	△	AC Adapter	AZ
d	LX-BZ0221T AFC		M1.7-2 ROC	AB		UBATi0087TAZZ		Battery Pack	BE
e	XiPSN17P02000		M1.7-2 N	AA		UBATL0011TAZZ		Lithium Battery	AE
g	LX-BZ0238TAFN		M1.7-6 N with Washer	AC		GCOVH1296TASA		Lens Cap	AF
h	XiPSF17P02000		M1.7-2 F	AA		GCOVA1870TASA		Lens Hood	AH
i	XiPSF17P03000		M1.7-3 F	AA		GD Ai-A001WJZZ		Tripod Adapter	AM
k	LX-BZ0251TAFD		Floating Screw A	AB		UBNDT0145TASA		Hand Strap	AG
m	LX-BZ0253TAFN		Floating Screw B	AB		CDSKA0081TA01		CD-ROM (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	AH
o	XiPSN17P06000		M1.7-6 N	AA		CDSKA0080TA01		SD Card(8MB) (NZ80H/NZ100S/H/E/ E(Hong Kong)/ E(Australia, New Zealand))	BF
p	LX-HZ0063TAFN		M1.7-6 N Tapping	AA		TiNSE0154TAZZ		Service Guide (NZ50H/NZ80H/NZ100H)	AA
q	LX-HZ0050TAFN		M1.7-4 F	AA		TiNSEA002WJZZ		Operation Manual (NZ50H)	AN
r	XiPSN17P04000		M1.7-4 N	AA		TiNSEA003WJZZ		Quick User Guide (NZ50H)	AG
t	LX-BZ0224TAFN		M1.7-2.5 N	AA		TiNSEA004WJZZ		Operation Manual (NZ100H)	AN
u	LX-BZ3201GEFF		M1.4-2 F	AB		TiNSEA005WJZZ		Quick User Guide (NZ100H)	AG

CAMERA UNIT PARTS LIST

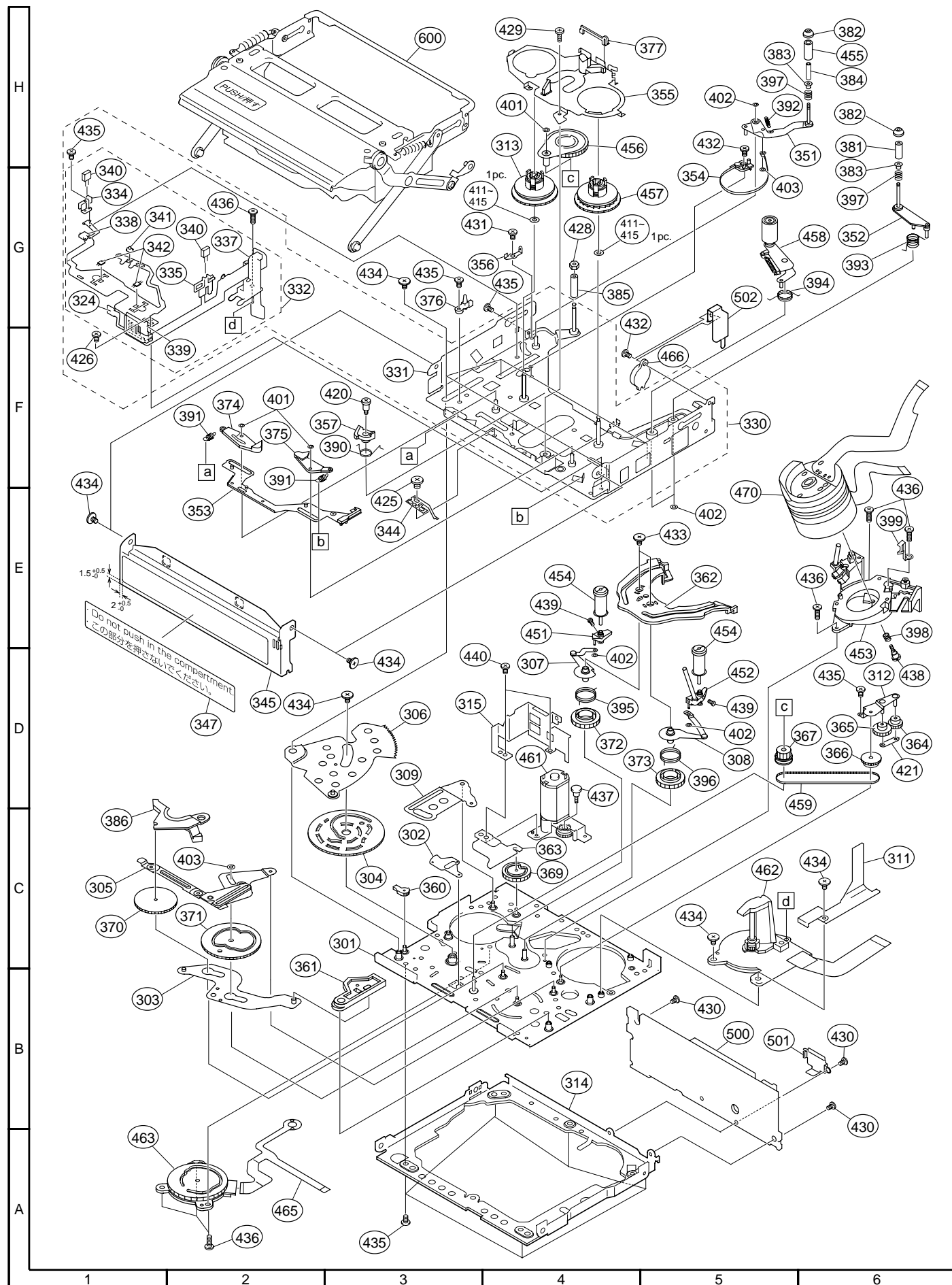
1	PLNSA0145TAN2		Lens Unit	BT		TiNSEA006WJZZ		Operation Manual (NZ80H)	AN
2	PFiLW0085TAZZ		Crystal Filter	AS		TiNSEA007WJZZ		Quick User Guide (NZ80H)	AG
3	PCOVM8033TA00		Dust Protection Rubber	AC		TiNSLA001WJZZ		Operation Manual (German/French/Dutch/Italian) (NZ50S)	AV
4	CLNS-0145RMAK		CCD Service			TiNSLA002WJZZ		Operation Manual (Spanish/Swedish/Portuguese/ English)(NZ50S)	AV
5	XiPSN17P03000		M1.7 X 3 Small Screw (Silver)	AA		TiNSLA004WJZZ		Operation Manual (NZ50E(Australia, New Zealand))	AX
6	DUNTKB248PM00		CCD PWB Unit	—		TiNSLA005WJZZ		Operation Manual (NZ50W(Hong Kong))	AX
7	LX-HZ0073TAFD		M1.7 X 5 Tap Screw	AA		TiNSLA006WJZZ		Operation Manual (German/French)(NZ100S)	AT
8	PSLDM3382TAMS		Shield Case	AD		TiNSLA007WJZZ		Operation Manual (Dutch/Italian/Spanish)(NZ100S)	AW
9	QPWBHB194WJZZ		CCD=Camera FPC	AD		TiNSLA008WJZZ		Operation Manual (Swedish/Portuguese/English) (NZ100S)	AX
10	CANGK0662TA01		KS Lens Fixing Angle	AG		TiNSLA009WJZZ		Operation Manual (NZ100E(Australia, New Zealand))	AA
11	LX-HZ0050TAFN		M1.7-4 Tap Screw (Silver)	AA		TiNSLA010WJZZ		Operation Manual (NZ100W(Hong Kong))	AY
						QPLGA0010GEZZ		Plug Converter (NZ50E/NZ100E)	AF

Ref. No.	Part No.	★	Description	Code
ACCESSORIES (NOT REPLACEMENT ITEM)				
TGANE0050TAZZ			Guarantee Card (NZ50E(Australia, New Zealand)/ NZ100E(Australia, New Zealand))	—
TGANE0057TAZZ			Guarantee Card (NZ50H/NZ80H/NZ100H)	—
TGANL0004TAZZ			Guarantee Card (NZ50S/H/NZ80H/NZ100S/H)	—
TLABK0001TAZZ			No. Card(x2)	—

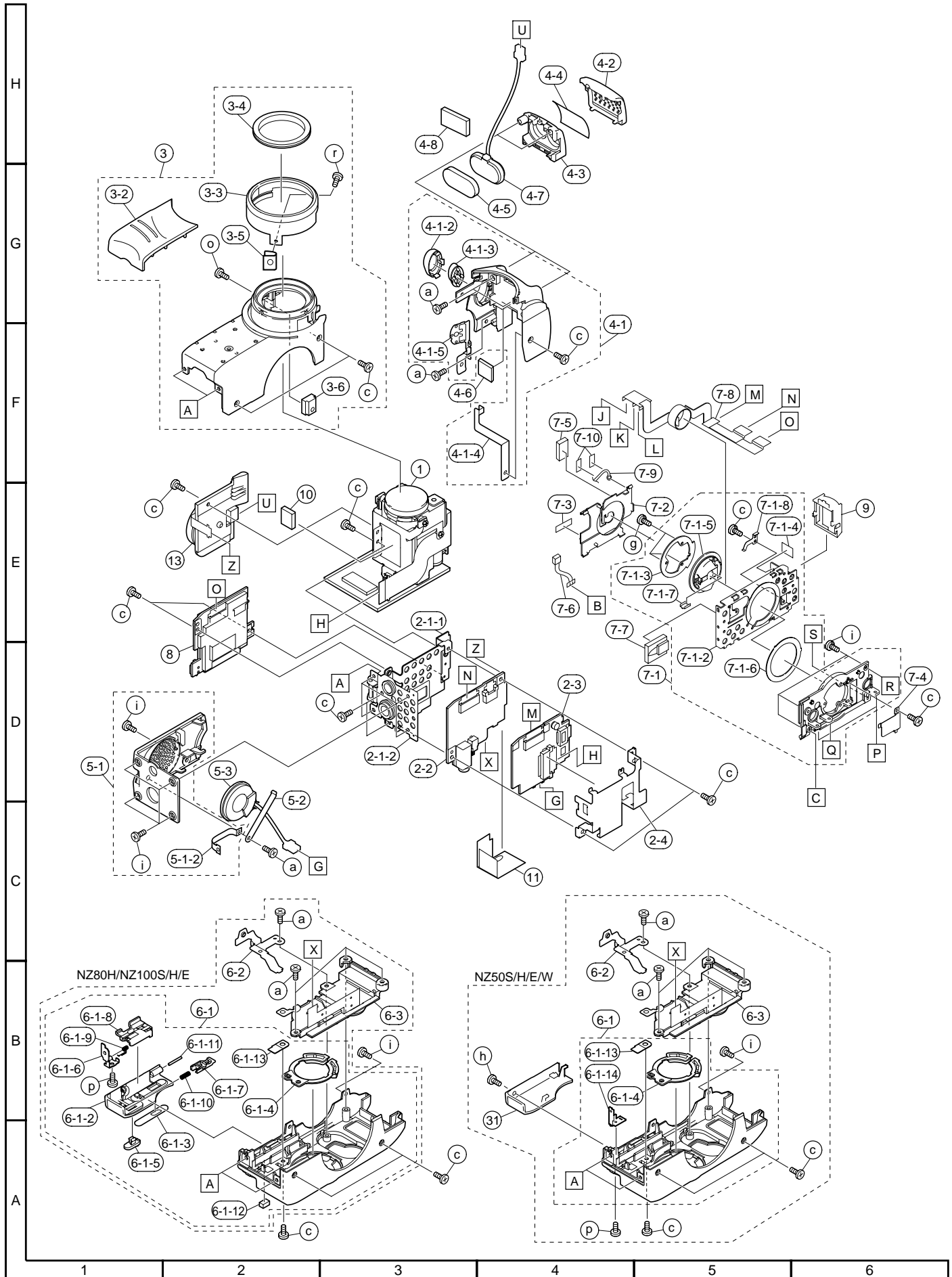
PACKING PARTS
(NOT REPLACEMENT ITEM)

SPAKCA013WJZZ			Packing Case(NZ50S)	—
SPAKCA014WJZZ			Packing Case(NZ50H)	—
SPAKCA015WJZZ			Packing Case(NZ50E/ E(Australia, New Zealand))	—
SPAKCA016WJZZ			Packing Case (NZ50W(Hong Kong))	—
SPAKCA017WJZZ			Packing Case(NZ100S)	—
SPAKCA018WJZZ			Packing Case(NZ100H)	—
SPAKCA019WJZZ			Packing Case (NZ100E/E(Australia, New Zealand))	—
SPAKCA020WJZZ			Packing Case (NZ100E(Hong Kong))	—
SPAKCA070WJZZ			Packing Case(NZ80H)	—
SPAKA6420TAZZ			Packing Add.(Bottom)	—
SPAKF0293TAZZ			Packing Material(Bottom)	—
SPAKP6108TAZZ			Side Pad	—
SPAKP6121TAZZ			Wrapping Paper	—
SSAKA0087TAZZ			Plastic Bag (NZ50S/H/E/W(Hong Kong)/ E(Australia, New Zealand)/NZ80H/ NZ100H/E/E(Hong Kong)/ E(Australia, New Zealand))	—
SSAKA0117TAZZ			Plastic Bag(NZ100S)	—
SPAKAA001WJZZ			Packing Add.	—
SPAKSA002WJZZ			Operation Manual Spacer (NZ50S)	—

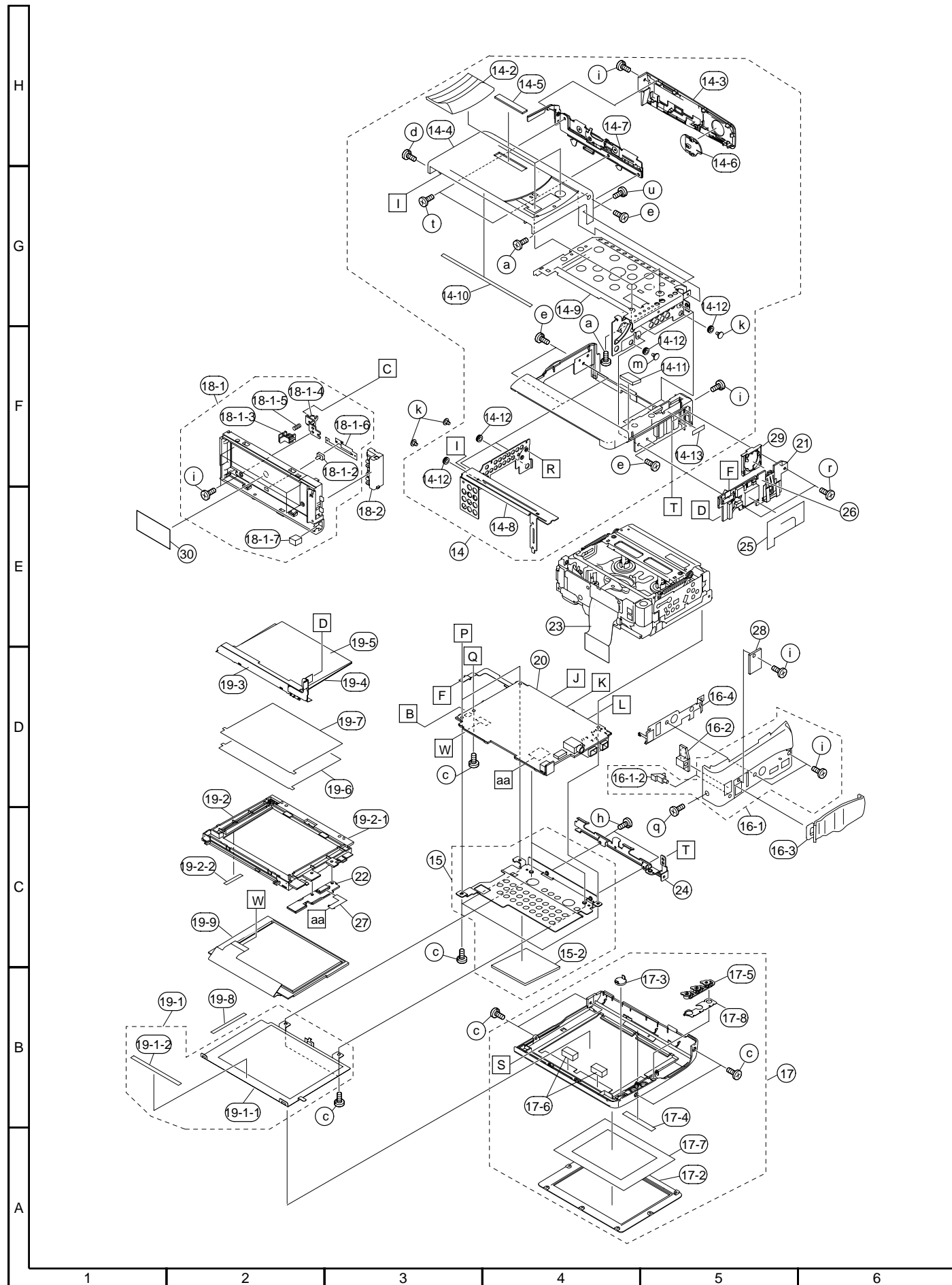
MECHANISM CHASSIS EXPLODED VIEW



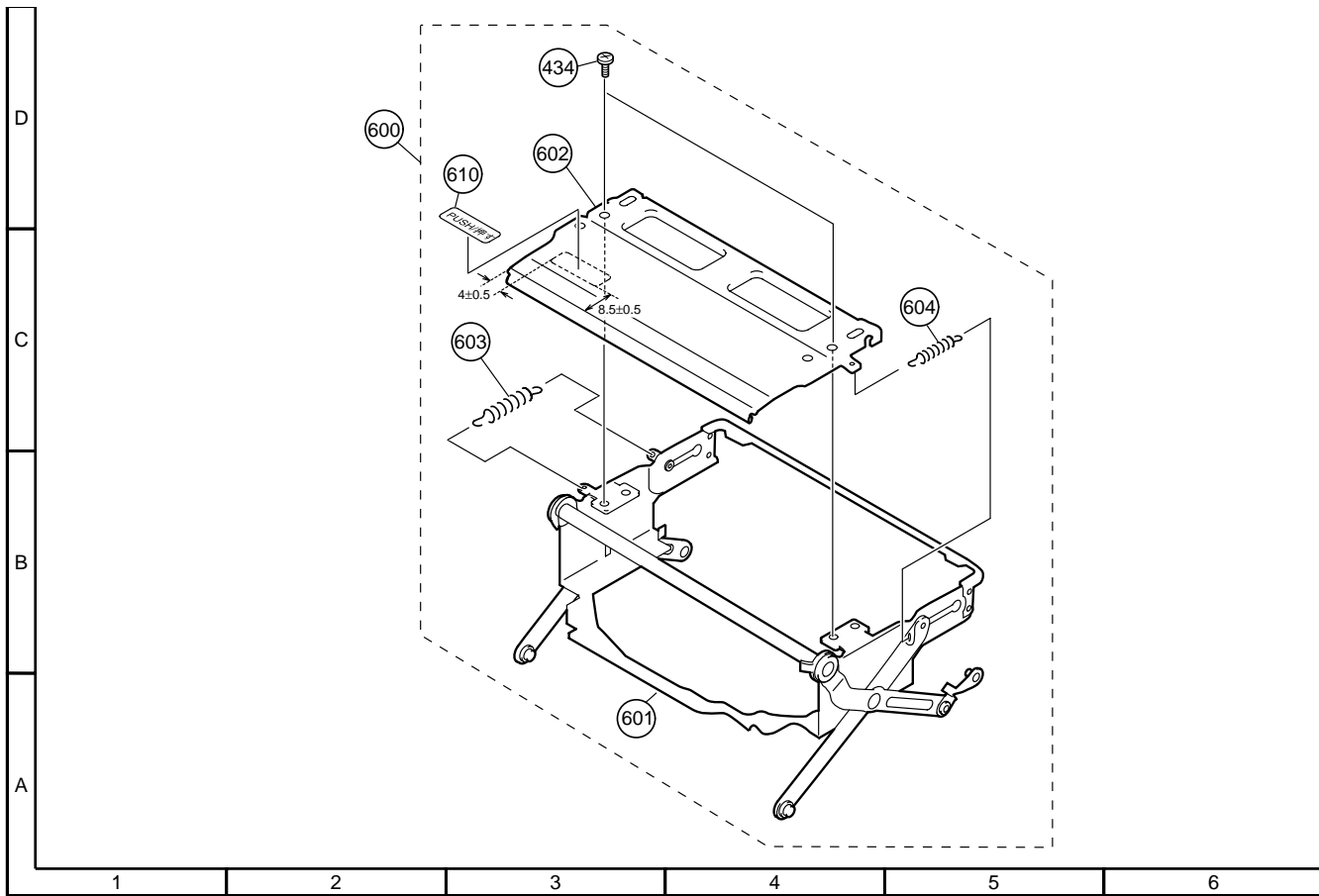
LENS UNIT EXPLODED VIEW



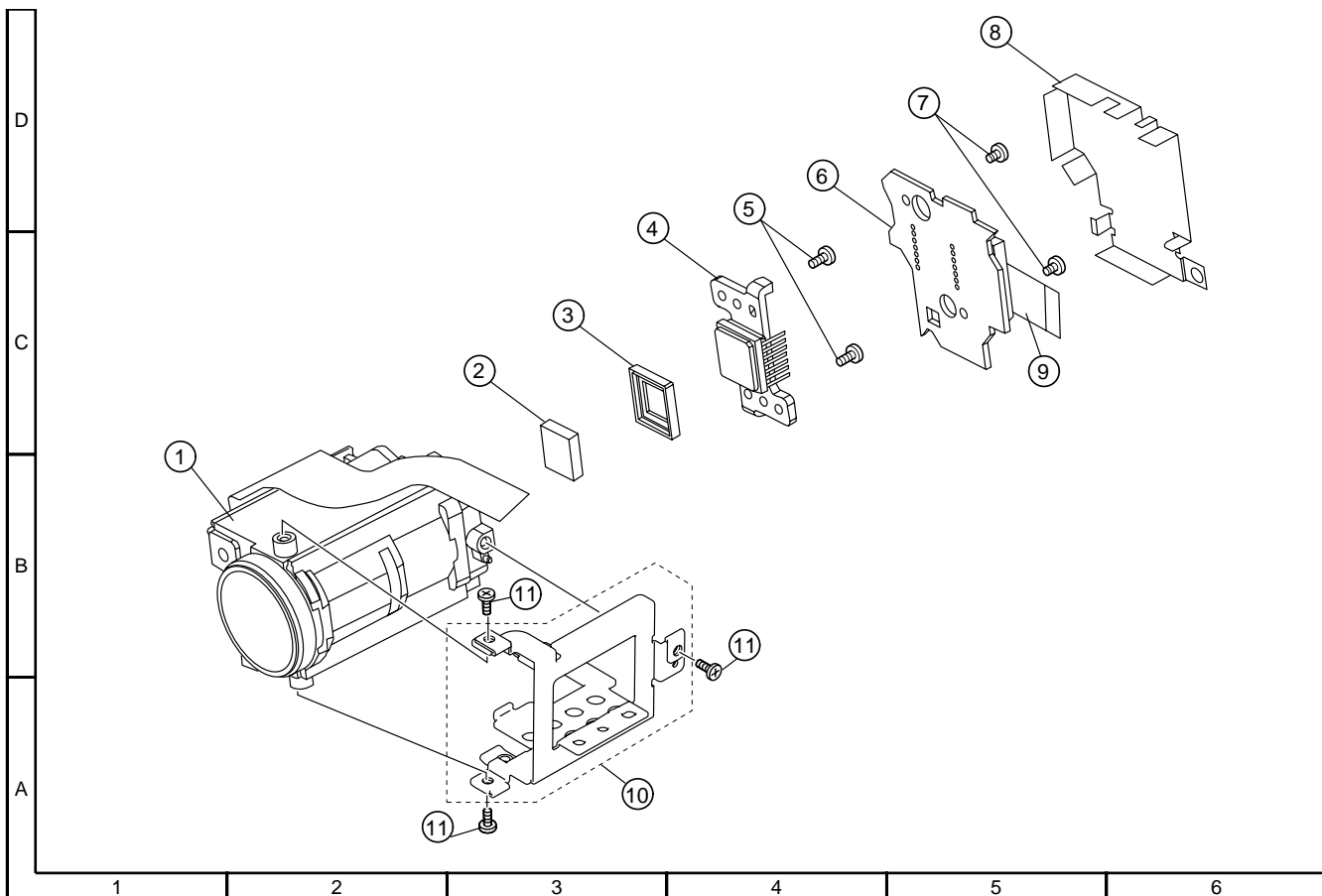
CABINET EXPLODED VIEW



CASSETTE CONTROL EXPLOOD VIEW



CAMERA UNIT EXPLOOD VIEW



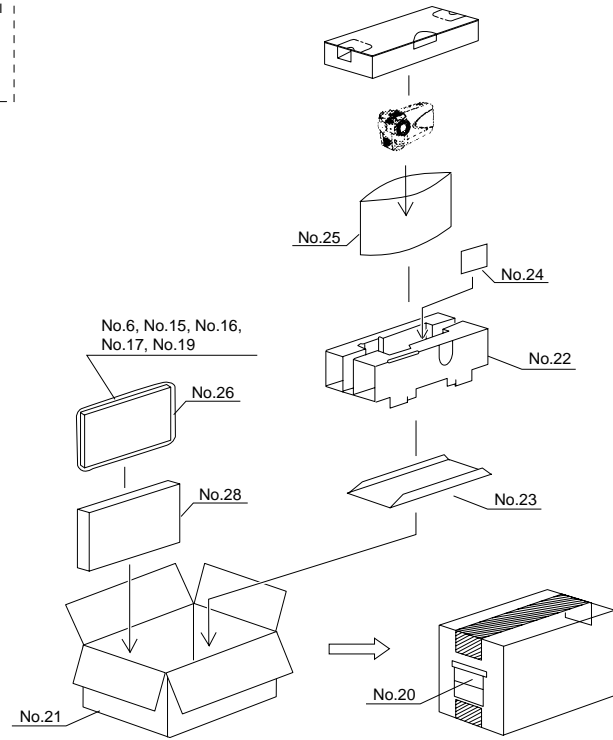
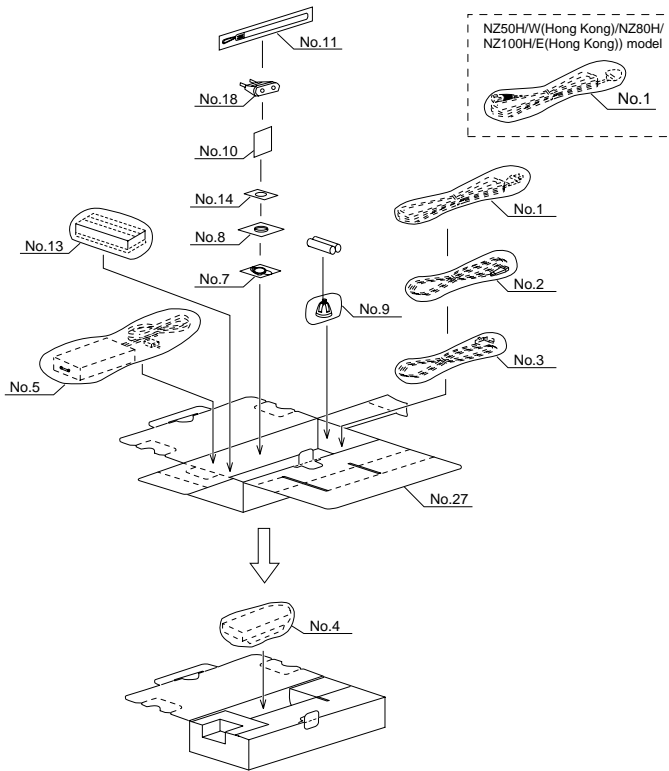
VL-NZ50S/H/E/W/NZ80H/NZ100S/H/E SERVICE JIG SPECIFICATIONS**1-1. Adjusting jigs for checking the mechanism**

No.	Name	New part	Type number, Application	Part code	Code
1	PB-use cassette torque meter		1mN·m/1.5mN·m	9DASD-1015	DB
2	Torque gauge		For use in VS-REW take up torque adjustment	JiGTG0045	CN
3	Torque gauge head		For use with the above torque gauge	9EQTGH-DH5000	BW
4	Tension gauge 4N		For measuring of pinch roller pressure	JiGSG0400	BK
5	Dial tension gauge		PTG-10	9DAPTG-10-10W	CA
6	Torque screwdriver 150mN·m		No. 0 cross bit, No. 00 cross bit	JiGTD1500RTDH	CB
7	Master plane		For checking the reel base height	9EQMP-VLPD1	CL
8	Height adjustment jig		For height adjusting	9DAHG-PD1	BZ
9	Height adjustment screwdriver		For guide roller adjustment. For Tu guide adjustment. For T roller adjustment. Bit shape.	9EQDRIVER-DH5	BC
10	Alignment tape - I		For tape running adjustment	VR3-GAZXS	CF
11	Alignment tape - II		For Switching Point adjustment	VR3-JPZQS	CG
12	For hexagon nut opposite side 3mm bit		For S guide hexagon nut installation.	95CM22001	BL
13	Reel hub for back tension measurement		Refer to Service Manual.	Prepared in the service station.	-
14	String for measuring the pinch roller pressure		Refer to Service Manual.	Prepared in the service station.	-

1-2. Parts for periodical inspection and maintenance

No.	Name	New part	Type number, Application	Part code	Code
1	Oil		Cosmo Hydro HV22	9EQ-OiL-HV22	AE
2	Cleaning paper		Dusper Σ (SIGMA) ozu Co., LTD	JiGDUSPER	AP
3	Grease: Moly Coat YM-103		Dow corning	99FGREASE-YM103	AH

17. PACKING OF THE SET



ACCESSORIES

No.	Model	Parts Code	Description	Remarks
1	NZ50H/W(Hong Kong)/NZ80H/NZ100H/E(Hong Kong)	QACCB0016TAZZ	AC Cable	⚠
	NZ50S/E/NZ100S/E	QACCK0006TAZZ	AC Cable	⚠
2	NZ80H/NZ100S/H/E/E(Hong Kong)/E(Australia, New Zealand)	QCNW-A338WJZZ	USB Cable	
3	- Common parts -	QCNW-1979TAZZ	AV Cable	
4	NZ100S/H/E/E(Hong Kong)/E(Australia, New Zealand)	RRMCG0084TASA	Remote Control	
5	- Common parts -	UADP-0342TAZZ	AC Adapter	⚠
6	NZ80H/NZ100S/H/E/E(Hong Kong)/E(Australia, New Zealand)	CDSKA0081TA01	CD-ROM	
7	- Common parts -	GCOVH1296TASA	Lens Cap	
8	- Common parts -	GCOVA1870TASA	Lens Hood	
9	- Common parts -	GDAI-A001WJZZ	Tripod Adapter	
10	NZ80H/NZ100S/H/E/E(Hong Kong)/E(Australia, New Zealand)	CDSKA0080TA01	SD Card(8M)	
11	- Common parts -	UBNDT0145TASA	Hand Strap	
12	- Common parts -	-	AA Battery	
13	- Common parts -	UBATI0087TAZZ	Battery Pack	
14	- Common parts -	UBATL0011TAZZ	Lithium Battery	
15	NZ50S	TiNSLA001WJZZ	Operation Manual (German/French/Dutch/Italian)	
	NZ50S	TiNSLA002WJZZ	Operation Manual (Spanish/Swedish/Portuguese/English)	
	NZ100S	TiNSLA006WJZZ	Operation Manual (German/French)	
	NZ100S	TiNSLA007WJZZ	Operation Manual (Dutch/Italian/Spanish)	
	NZ100S	TiNSLA008WJZZ	Operation Manual (Swedish/Portuguese/English)	
	NZ50H	TiNSEA002WJZZ	Operation Manual	
	NZ80H	TiNSEA006WJZZ	Operation Manual	
	NZ100H	TiNSEA004WJZZ	Operation Manual	
	NZ50E(Australia, New Zealand)	TiNSLA004WJZZ	Operation Manual	
	NZ50W(Hong Kong)	TiNSLA005WJZZ	Operation Manual	
	NZ100E(Australia, New Zealand)	TiNSLA009WJZZ	Operation Manual	
	NZ100W(Hong Kong)	TiNSLA010WJZZ	Operation Manual	

No.	Model	Parts Code	Description	Remarks
16	NZ50H/NZ80H/NZ100H	TiNSE0154TAZZ	Service Guide	
17	NZ50H	TiNSEA003WJZZ	Quick User Guide	
	NZ80H	TiNSEA007WJZZ	Quick User Guide	
	NZ100H	TiNSEA005WJZZ	Quick User Guide	
18	NZ50E/NZ100E	QPLGA0010GEZZ	Plug Converter	

ACCESSORIES (NOT REPLACEMENT ITEM)

No.	Model	Parts Code	Description	Remarks
19	NZ50E(Australia, New Zealand)/NZ100E(Australia, New Zealand)	TGANE0050TAZZ	Guarantee Card	★
	NZ50H/NZ80H/NZ100H	TGANE0057TAZZ	Guarantee Card	★
	NZ50S/H/NZ80H/NZ100S/H	TGANL0004TAZZ	Guarantee Card	★
20	- Common parts -	TLABK0001TAZZ	No. Card(x2)	★

PACKING PARTS (NOT REPLACEMENT ITEM)

No.	Model	Parts Code	Description	Remarks
21	NZ50S	SPAKCA013WJZZ	Packing Case	★
	NZ50H	SPAKCA014WJZZ	Packing Case	★
	NZ50E/E(Australia, New Zealand)	SPAKCA015WJZZ	Packing Case	★
	NZ50W(Hong Kong)	SPAKCA016WJZZ	Packing Case	★
	NZ100S	SPAKCA017WJZZ	Packing Case	★
	NZ100H	SPAKCA018WJZZ	Packing Case	★
	NZ100E/E(Australia, New Zealand)	SPAKCA019WJZZ	Packing Case	★
	NZ100E(Hong Kong)	SPAKCA020WJZZ	Packing Case	★
	NZ80H	SPAKCA070WJZZ	Packing Case	★
	22	- Common parts -	SPAKA6420TAZZ	Packing Add.(Bottom)
23	- Common parts -	SPAKF0293TAZZ	Packing Material(Bottom)	★
24	- Common parts -	SPAKP6108TAZZ	Side Pad	★
25	- Common parts -	SPAKP6121TAZZ	Wrapping Paper	★
26	NZ50S/H/E/W(Hong Kong)/E(Australia, New Zealand)/NZ80H/NZ100H/E/E(Hong Kong)/E(Australia, New Zealand)	SSAKA0087TAZZ	Plastic Bag	★
	NZ100S	SSAKA0117TAZZ	Plastic Bag	★
27	- Common parts -	SPAKAA001WJZZ	Packing Add.	★
28	NZ50S	SPAKSA002WJZZ	Operation Manual Spacer	★

MARK ★ Not Replacement Item

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