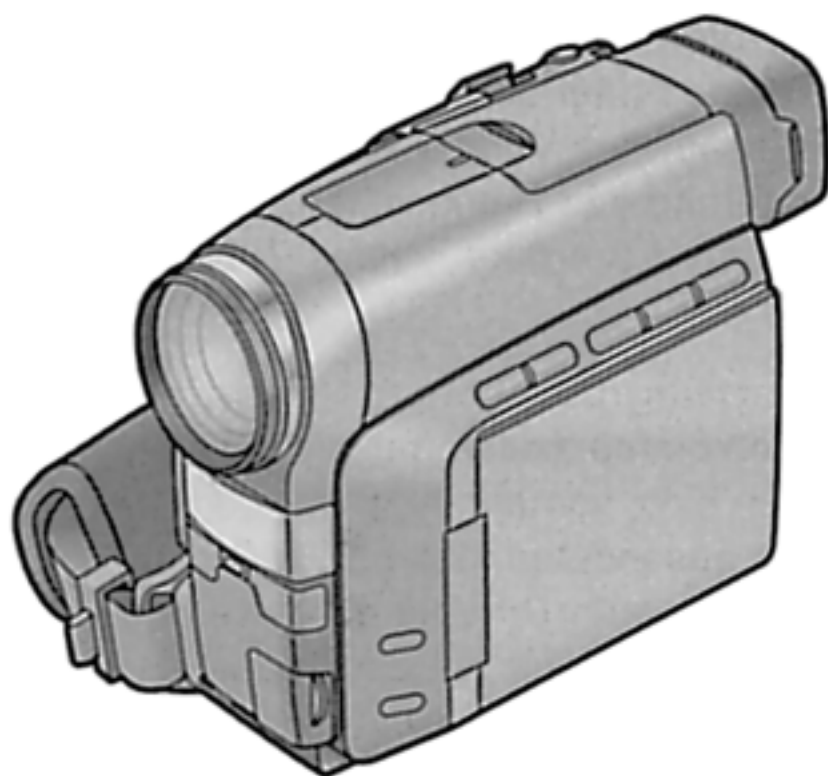


# Service Manual



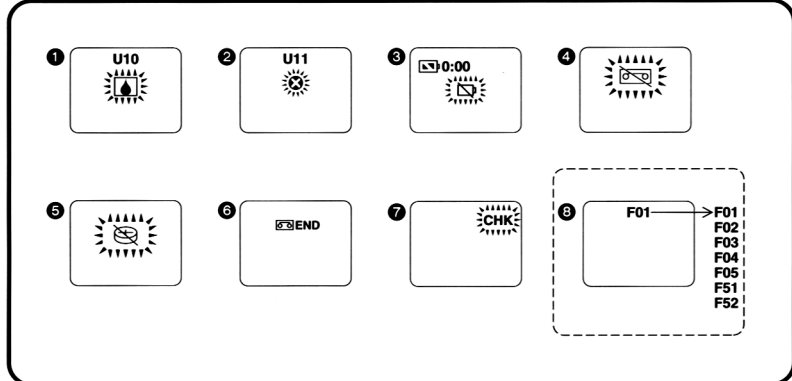
**Panasonic** simple

1. Руководство
2. Блок-схема
3. Электрическая схема
4. Печатные платы
5. Осциллограммы
6. Механика

# SPECIFICATIONS

| ITEM                   | SPECIFICATION                                                                                                                                                                                                                                    | ITEM                  | SPECIFICATION                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POWER                  | Source: Battery Pack; 7.2 V DC<br>AC Adaptor; 7.9 V DC<br>Consumption; 5.1 W (Battery operation)                                                                                                                                                 | VIDEO                 | HEADS: 4 Rotary heads, 1 flying erase head                                                                                                                                                                                                                                                                                                                               |
|                        |                                                                                                                                                                                                                                                  |                       | OUTPUT: PHONO CONNECTOR;<br>1.0 Vp-p 75 $\Omega$ unbalanced                                                                                                                                                                                                                                                                                                              |
| VIDEO RECORDING SYSTEM | 4 rotary heads, helical scanning system PAL                                                                                                                                                                                                      | AUDIO                 | HEADS: 1 Stationary head (Normal-Mono)                                                                                                                                                                                                                                                                                                                                   |
| TAPE FORMAT            | VHS-C Cassette Tape (Tape width 12.7 mm)                                                                                                                                                                                                         |                       | OUTPUT: PHONO CONNECTOR;<br>-6 dBV (47k $\Omega$ loaded)/less than 1 k $\Omega$<br>INPUT: MIC IN;<br>-70 dBV, 4.7k $\Omega$ or more, unbalanced                                                                                                                                                                                                                          |
| TAPE SPEED             | SP mode : 23.3 mm/s<br>LP mode : 11.7 mm/s<br>(Except NV-RX67EG/E)<br>Record/Playback Time:<br>SP mode : 45 min. with NV-EC45XG<br>LP mode : 90 min. with NV-EC45XG<br>(Except NV-RX67EG/E)<br>FF/REW Time:<br>less than 6.5 min. with NV-EC45XG | OPERATING TEMPERATURE | 0-40 °C                                                                                                                                                                                                                                                                                                                                                                  |
|                        |                                                                                                                                                                                                                                                  | OPERATING HUMIDITY    | 10-80 %                                                                                                                                                                                                                                                                                                                                                                  |
|                        |                                                                                                                                                                                                                                                  | WEIGHT                | Approx. 745 g (without Battery Pack)                                                                                                                                                                                                                                                                                                                                     |
|                        |                                                                                                                                                                                                                                                  | DIMENSIONS            | 90 (W) X 127 (H) X 263 (D) mm                                                                                                                                                                                                                                                                                                                                            |
|                        |                                                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                                                                                                                          |
| CAMERA                 | PICK-UP ELEMENT:<br>CCD (Charge Coupled Device)                                                                                                                                                                                                  | STANDARD ACCESSORIES  | 1 pc. AC Adaptor<br>1 pc. Battery Pack<br>1 pc. Cassette Adaptor<br>(Except NV-RX64B)<br>1 pc. Shoulder Strap<br>1 pc. DC Output Cable<br>1 pc. Battery<br>(Except NV-RX64B)<br>1 pc. AC Cord<br>1 pc. AV Cord<br>1 pc. Remote Controller<br>1 pc. Remote Controller Holder<br>1 pc. Battery Cover<br>1 pc. Button Battery<br>1 pc. 21-Pin Adaptor<br>(NV-RX67EG/E Only) |
|                        | STANDARD ILLUMINATION: 1,400 lux                                                                                                                                                                                                                 |                       |                                                                                                                                                                                                                                                                                                                                                                          |
|                        | MINIMUM REQUIRED ILLUMINATION:<br>0.7 Lux (Low Light Mode)                                                                                                                                                                                       |                       |                                                                                                                                                                                                                                                                                                                                                                          |
|                        | LENS: 22 : 1 Power Zoom<br>Lens with Digital AI Auto Focus, Auto Iris,<br>F1.6 (3.7-81.4 mm), Filter Diameter 43 mm                                                                                                                              |                       |                                                                                                                                                                                                                                                                                                                                                                          |
|                        | IMAGE SENSOR: 1/4-inch CCD Image Sensor                                                                                                                                                                                                          |                       |                                                                                                                                                                                                                                                                                                                                                                          |
|                        | VIEWFINDER: 0.5-inch Electronic View Finder                                                                                                                                                                                                      |                       |                                                                                                                                                                                                                                                                                                                                                                          |

Weight and dimensions shown are approximate.  
Specifications are subject to change without notice.



## Indications

### ■ Warning/Alarm Indications

#### ① Condensation

#### ② Video Head Clogging

#### ③ Remaining Battery Power

When the remaining battery power is used up, the Movie Camera automatically switches off. Replace the Battery with a fully charged one.

#### ④ Cassette

No cassette is inserted. Or the tab of the inserted cassette is broken out. Insert a cassette with an intact tab.

#### ⑤ Built-in Lithium Battery

The built-in Lithium Battery is exhausted. Charge it.

#### ⑥ End of the Tape

When the tape has reached its end, this indication appears. Insert a new cassette.

#### ⑦ Anti-Ground Recording

### ⑧ Error Code

(Error codes are information for service personnel.)

If the [F] Indication with a 2-digit number appears, a malfunction has occurred.

If the indicated error code is between [F01] and [F05], the Movie Camera will turn off automatically one minute after the [CAMERA] Lamp has started to flash.

If the indication is [F51] or [F52], the Movie Camera will not turn off automatically.

F01: Locked Take Up-Reel

F02: Locked Supply-Reel

F03: Locked Unloading Mechanism

F04: Locked Loading Mechanism

F05: Locked Cylinder

F51: Locked Focus Motor

F52: Locked Zoom Motor

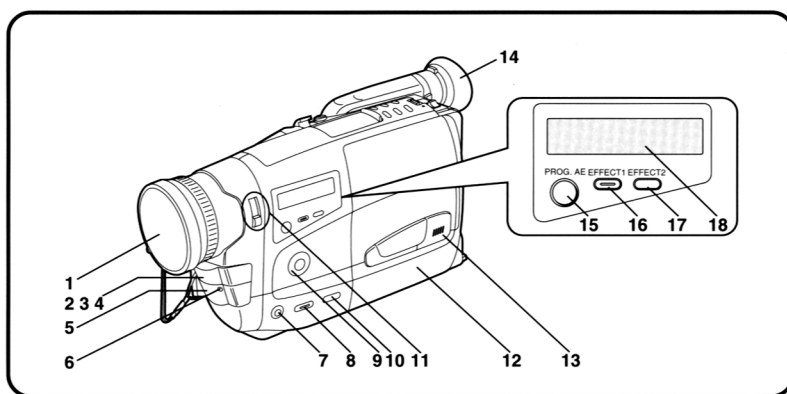
|                 |                  |                    |                     |                  |                    |
|-----------------|------------------|--------------------|---------------------|------------------|--------------------|
| 1. VW-AS7E<br>  | 2. CGR-V610<br>  | 3. CGR-V620<br>    | 4. CGR-V816<br>     | 5. VW-KBC7E<br>  | 6. VW-RF7E /EG<br> |
| 7. VW-K10E<br>  | 8. VW-LF43WE<br> | 9. VW-LT4314WE<br> | 10. VW-LW4307WE<br> | 11. VZ-CT55E<br> | 12. VW-TCA7E<br>   |
| 13. VW-VT1E<br> | 14. VW-EC1E<br>  | 15. VW-EC500E<br>  | 16. VZ-LDR10E<br>   | 17. VW-SK11E<br> |                    |

## Optional Accessories

1. AC Adaptor
2. Battery Pack (Lithium-Ion)
3. Battery Pack (Lithium-Ion)
4. Battery Pack (Lithium-Ion)
5. Car Battery Charger
6. RF Adaptor
7. 5-Pin Synchro Edit Cord
8. Filter Kit
9. Tele Conversion Lens
10. Wide Conversion Lens

11. Tripod
12. Cassette Adaptor
13. Video Titler
14. Editing Controller
15. Editing Controller
16. IR/Video DC Light (Halogen & Infra-red)  
(It requires the Shoe Adaptor for attaching to the Movie Camera.)
17. Shoe Adaptor (for attaching the IR/Video DC Light)

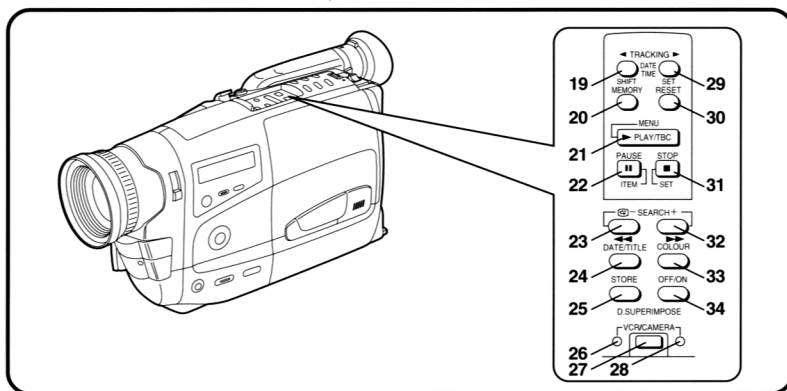
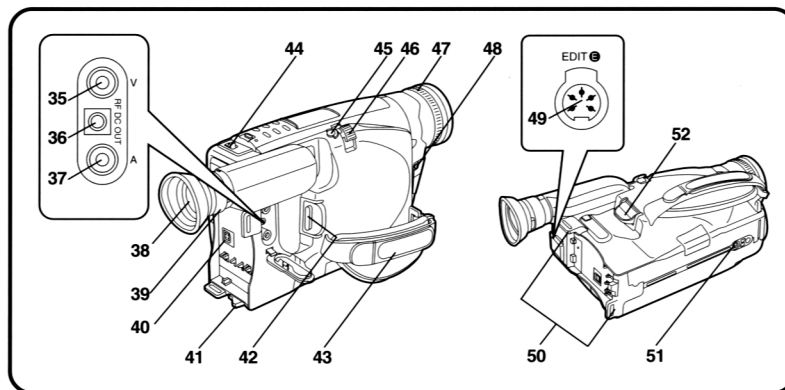
Some accessories are not available in some countries.



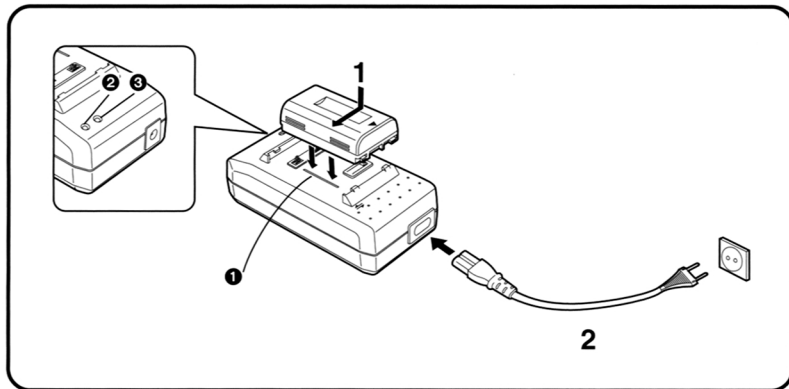
### Controls and Components

- 1 Lens Cap
- 2 White Balance Sensor
- 3 Remote Control Sensor
- 4 Built-in Infra-red Beam Emitters
- 5 Microphone
- 6 Tally Lamp
- 7 Focus Button [FOCUS]
- 8 Fade Button [FADE]
- 9 Backlight Button [BACKLIGHT]
- 10 White Balance Button [W.B]
- 11 0-Lux Recording Switch [0 LUX ON/OFF]
- 12 Cassette Compartment
- 13 Cassette Compartment Lock Button [LOCK]
- 14 Eyecup
- 15 Auto Exposure Selector Button [PROG. AE]
- 16 Digital Effect 1 Button [EFFECT1]
- 17 Digital Effect 2 Button [EFFECT2]
- 18 Multi Info Window

- 19 Date/Time Shift Button [DATE/TIME/SHIFT]
- Tracking Button [◀ TRACKING]
- 20 Memory Button [MEMORY]
- 21 Playback Button [PLAY]
- Menu Button [MENU]
- Time Base Corrector Button [TBC]
- 22 Pause Button [PAUSE]
- Item Selector Button [ITEM]
- 23 Reverse Search Button [←SEARCH]
- Rewind/Review Button [◀◀]
- Recording Check Button [Ⓢ]
- 24 Date/Time/Title Button [DATE/TITLE]
- 25 Digital Image Store Button [STORE]
- 26 VCR (Playback) Mode Lamp [VCR]
- 27 VCR/Camera Mode Selector Button [VCR/CAMERA]
- 28 Camera (Recording) Mode Lamp [CAMERA]
- 29 Date/Time Set Button [DATE/TIME/SET]
- Tracking Button [TRACKING ▶▶]
- 30 Tape Counter Reset Button [RESET]
- 31 Stop Button [STOP]
- Item Set Button [SET]
- 32 Forward Search Button [SEARCH+] ]
- Fast Forward/Cue Button [▶▶]
- 33 Colour Selector Button for Digital Image [COLOUR]
- 34 Digital Image Superimpose Button [OFF/ON]



- 35 Video Output Socket [V]
- 36 Radio Frequency DC Output Socket [RF DC OUT]
- 37 Audio Output Socket [A]
- 38 Finder
- 39 Eyepiece Corrector Ring
- 40 DC Input Socket [DC IN]
- 41 Battery Eject Lever [◀ BATTERY EJECT]
- 42 Recording Start/Stop Button
- 43 Grip Belt
- 44 Cassette Eject Lever [▲ EJECT]
- 45 Snapshot Recording Button [SNAP]
- Multi Image/Picture-in-Picture Button [MULTI]
- 46 Zoom Lever [W • T]
- 47 Focus Ring
- 48 Microphone Socket [MIC]
- 49 Edit Socket [EDIT Ⓢ]
- 50 Shoulder Strap Holders
- 51 Tripod Receptacle
- 52 Power Switch [POWER]



## Charging the Battery

Charge the Battery before using it.

### 1 Attach the Battery.

- Align the Battery with line ① and push it in the direction of the arrow while holding it down.

### 2 Securely connect the AC Mains Cable to the AC Adaptor and an AC Mains Socket.

- The [POWER] Lamp ② lights and then the [CHARGE] Lamp ③ flashes and charging starts.
- If the [CHARGE] Lamp ③ does not flash even though the Battery is attached, remove the Battery and then re-attach it.

## ■ Removing the Battery

Slide it in the opposite direction of that indicated in step 1 above.

- Charge the Battery at a room temperature between 10°C and 30°C.
- When charging, do not connect the DC Input Cable to the AC Adaptor.
- During recording and charging, the Battery becomes warm. However, this is normal.
- If you charge the Battery when it is not yet discharged, the [CHARGE] Lamp ③ may flash briefly and then go out. This indicates that the Battery is fully charged. Therefore, this is not an indication of a malfunction.

## ■ Charging Lamp [CHARGE]

Flashing: During charging  
Lit: The Battery can already be used to operate the Movie Camera but it is not yet fully charged.  
(Approx. 30-minute battery charge)  
Off: The Battery is fully charged.

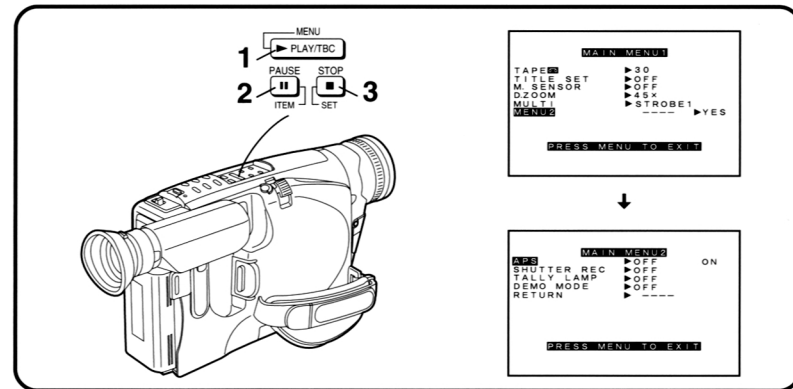
## ■ Charging Time and Maximum Continuous Recording Time in the Manual Recording Mode

| Battery Model No.   | Charging Time for a Full Charge | Max. Continuous Recording Time |
|---------------------|---------------------------------|--------------------------------|
| CGR-V610 (supplied) | 80 min.                         | 105 min.                       |
| CGR-V620            | 145 min.                        | 225 min.                       |
| CGR-V816            | 310 min.                        | 440 min.                       |

| Battery Model No.   | Approx. 30-Minute Charge | Max. Continuous Recording Time |
|---------------------|--------------------------|--------------------------------|
| CGR-V610 (supplied) | 30 min.                  | 45 min.                        |
| CGR-V620            |                          |                                |
| CGR-V816            |                          |                                |

(The times shown in the above charts are approximations.)

Maximum Continuous Recording Time means the duration of continuous recording performed at an ambient temperature of 25°C and 60% relative humidity. In actual recording, however, the use of the zoom and other functions increases the power consumption, and higher or lower temperature reduces the Battery's ability to generate electricity. Therefore, the actual recording time per Battery may be approximately 30%–50% shorter than listed above.



## Using the Menus

This Movie Camera displays the settings of various functions in Menus to make it easy to select the desired functions and settings.

Perform the following operations with the Movie Camera in the Camera Mode (the [CAMERA] Lamp lights) and in the Recording Pause Mode.

### Using the Main Menus

#### 1 Press the [MENU] Button.

- The [MAIN MENU1] Menu appears.

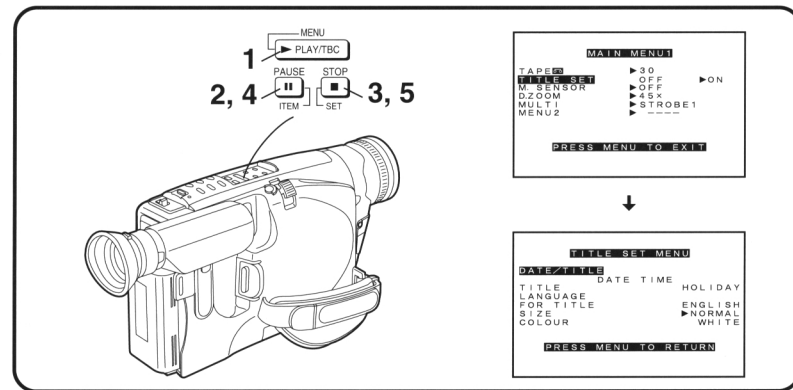
#### 2 Press the [ITEM] Button repeatedly to select the item to be set.

- If you select [MENU2], the [MAIN MENU2] Menu appears.

#### 3 Press the [SET] Button repeatedly to set the desired mode for the selected item.

#### Exiting the Main Menu(s)

Press the [MENU] Button.



## Using the Title Menu

#### 1 Press the [MENU] Button.

- The [MAIN MENU1] Menu appears.

#### 2 Press the [ITEM] Button repeatedly to select [TITLE SET].

#### 3 Press the [SET] Button to set to [ON].

- The [TITLE SET MENU] Menu appears.

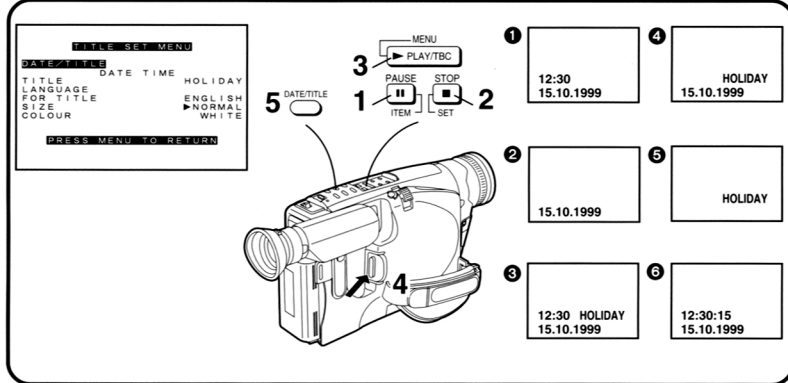
#### 4 Press the [ITEM] Button repeatedly to select the item to be set.

#### 5 Press the [SET] Button repeatedly to set the selected item to the desired mode.

#### Exiting the Title Menu

Press the [MENU] Button once to return to the [MAIN MENU1] Menu, and then press the [MENU] Button once more to exit the Menu.

- The settings that you have selected on the Menus are maintained when you turn the Movie Camera off. However, if you disconnect the power supply unit (Battery or AC Adaptor) from the Movie Camera before turning it off, the selected settings may not be maintained.
- If you connect the Movie Camera to a TV, the Menu can be displayed on the TV screen.



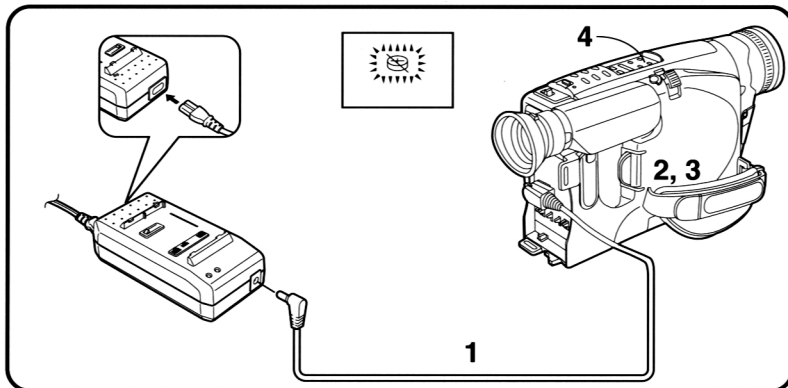
### Recording with the Time and/or Date Superimposed in the Picture

After displaying the [TITLE SET MENU] Menu...

- 1 Press the [ITEM] Button repeatedly to select [DATE/TITLE].
- 2 Press the [SET] Button repeatedly until the desired indication appears on the Title Menu.
  - The indications change in the order 1 to 6.
  - 1 Date and Time → 2 Date → 3 Date, Time and Title → 4 Date and Title → 5 Title → 6 Date and Time with seconds
  - After turning the Movie Camera off and then on again, the previously selected Date/Time/Title Indication is no longer displayed. To make it appear again, press the [DATE/TITLE] Button once.

- 3 Press the [MENU] Button twice to exit the Menu.
  - The selected Date/Time/Title Indication appears.
- 4 Press the Recording Start/Stop Button to start recording.
- Deleting the Date/Time/Title Indication
- 5 During recording or when the Movie Camera is in the Recording Pause Mode, press the [DATE/TITLE] Button to make the Date/Time/Title Indication disappear.

Be sure to turn the Movie Camera off before removing the Battery or disconnecting the AC Adaptor.  
Disconnecting the power supply while the Movie Camera is on erases the Date/Time/Title Indication stored in memory.



### Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. This has occurred if the [ ] Indication flashes when you turn on the Movie Camera. In this case, perform the following operations.

#### ■ Charging the Built-in Lithium Battery and Other Required Operations

- 1 Connect the AC Adaptor to an AC mains socket and to the Movie Camera.

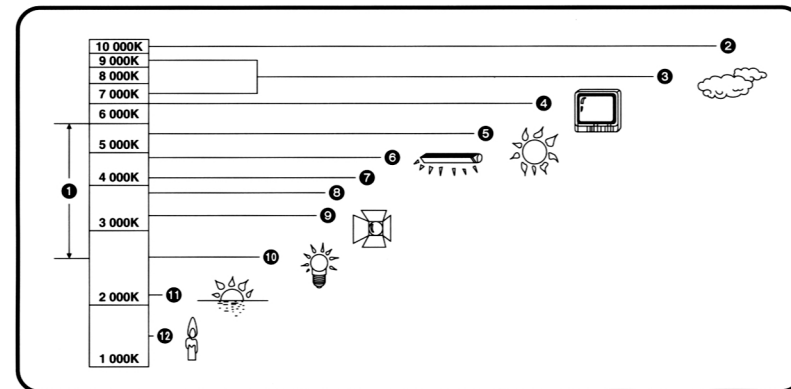
### 2 Leave the Movie Camera turned off.

- Although charging the lithium battery is possible with the Movie Camera turned on or off, we recommend to keep it turned off to conserve energy.

### 3 Leave the Movie Camera in this condition for approximately 4 hours.

- Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 6 months, charging for 26 hours (full charge) maintains it for approximately 2 years.

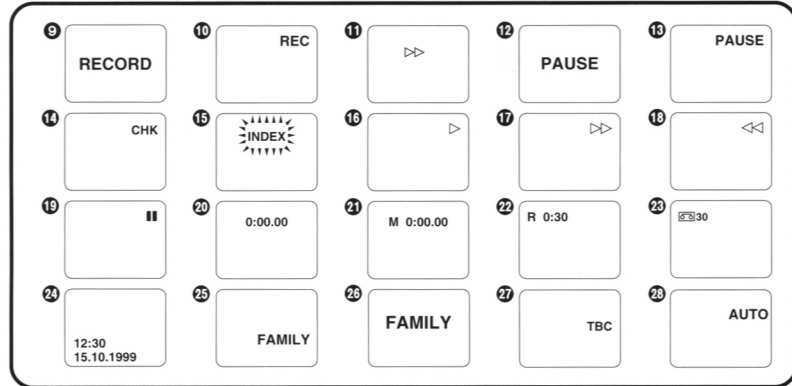
### 4 Set the clock to the current date and time.



### Colour Temperature and White Balance Adjustment

Every light source has its own colour temperature which is measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness. The range 1 indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually. Also, additional lighting may be necessary.

- 1 Control range of this Movie Camera's Auto White Balance Adjustment Mode
- 2 Blue sky
- 3 Cloudy sky (Rain)
- 4 TV screen
- 5 Sunlight
- 6 White fluorescent lamp
- 7 2 hours after sunrise or before sunset
- 8 1 hour after sunrise or before sunset
- 9 Halogen light bulb
- 10 Incandescent light bulb
- 11 Sunrise or sunset
- 12 Candlelight



## ■ Recording and Playback Indications

- 9 Recording Mode (large indication)
- 10 Recording Mode (small indication)
- 11 Tape Movement during Recording
- 12 Recording Pause Mode (large indication)
- 13 Recording Pause Mode (small indication)
- 14 Recording Check Mode
- 15 Index Signal Recording Mode

An index signal is automatically recorded (and the [INDEX] Indication flashes briefly while it is being recorded) when you:

- Start recording after connecting the AC Adaptor or attaching the Battery.
- Start recording after inserting a cassette.

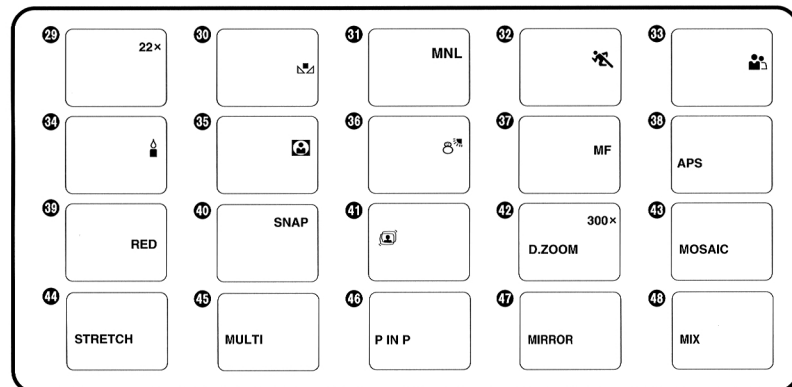
- Start recording after pressing the [VCR/CAMERA] Button to change from the VCR to the Camera Mode.

The recording of index signals makes it possible to use the VHS Index Search or Intro Scan Function during playback on a VCR equipped with these functions.  
(Refer to the operating instructions of your VCR.)

- 16 Playback Mode
- 17 Camera Search Mode
- 18 Fast Forward/Cue Mode
- 19 Rewind/Review Mode
- 20 Camera Search Mode
- 21 Still Playback Mode
- 22 Elapsed Tape Time

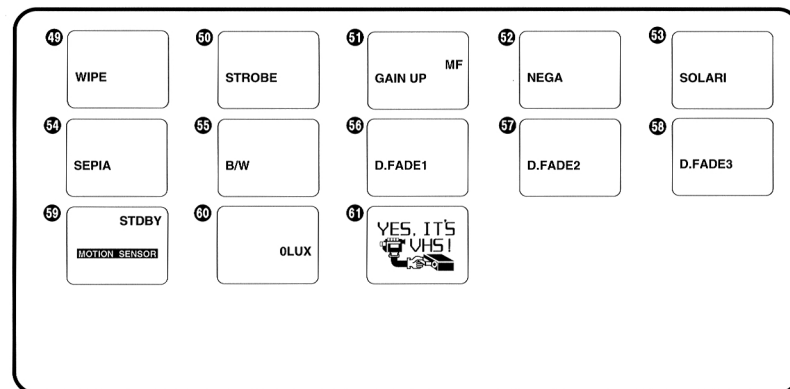
When the tape is rewound further than the position [0:00.00], the minus sign [-] appears in front of the Elapsed Tape Time Indication.

- 23 Elapsed Tape Time with activated Memory Stop Function
- 24 Remaining Tape Time
- 25 Tape Length
- 26 Date and Time
- 27 Title (small indication)
- 28 Title (large indication)
- 29 Time Base Corrector
- 30 Full Auto Mode



- 29 Zoom Magnification
- 30 Manual White Balance Mode
- 31 Manual Recording Mode
- 32 Sports Mode
- 33 Portrait Mode
- 34 Low Light Mode
- 35 Spotlight Mode
- 36 Surf & Snow Mode
- 37 Manual Focus Mode
- 38 Power Save Mode
- 39 Colour Indication for Digital Image

- 40 Snapshot Recording Mode
- 41 Super Image Stabilizer Mode
- 42 Digital Zoom Mode
- 43 Mosaic Mode
- 44 Stretch Mode
- 45 Multi Image Mode
- 46 Picture-in-Picture Mode
- 47 Mirror Mode
- 48 Mix Mode



- 49 Wipe Mode
- 50 Strobe Mode
- 51 Gain up Mode
- 52 Nega Mode
- 53 Solarisation Mode
- 54 Sepia Mode
- 55 Black-and-White Mode
- 56 Digital Fade 1 Mode
- 57 Digital Fade 2 Mode
- 58 Digital Fade 3 Mode
- 59 Motion-Sensor-Controlled Recording Function Stand-by Mode
- 60 0 Lux Night View Mode
- 61 Demonstration Mode

## Demonstration Mode

If you connect the AC Adaptor to the Movie Camera, turn the Movie Camera on without any cassette inserted, and leave it on for approximately 10 minutes without performing any operation, it automatically switches over to the Demonstration Mode. The Movie Camera remains in this mode until you turn it off and disconnect the AC Adaptor.

## Cancelling the Demonstration Mode

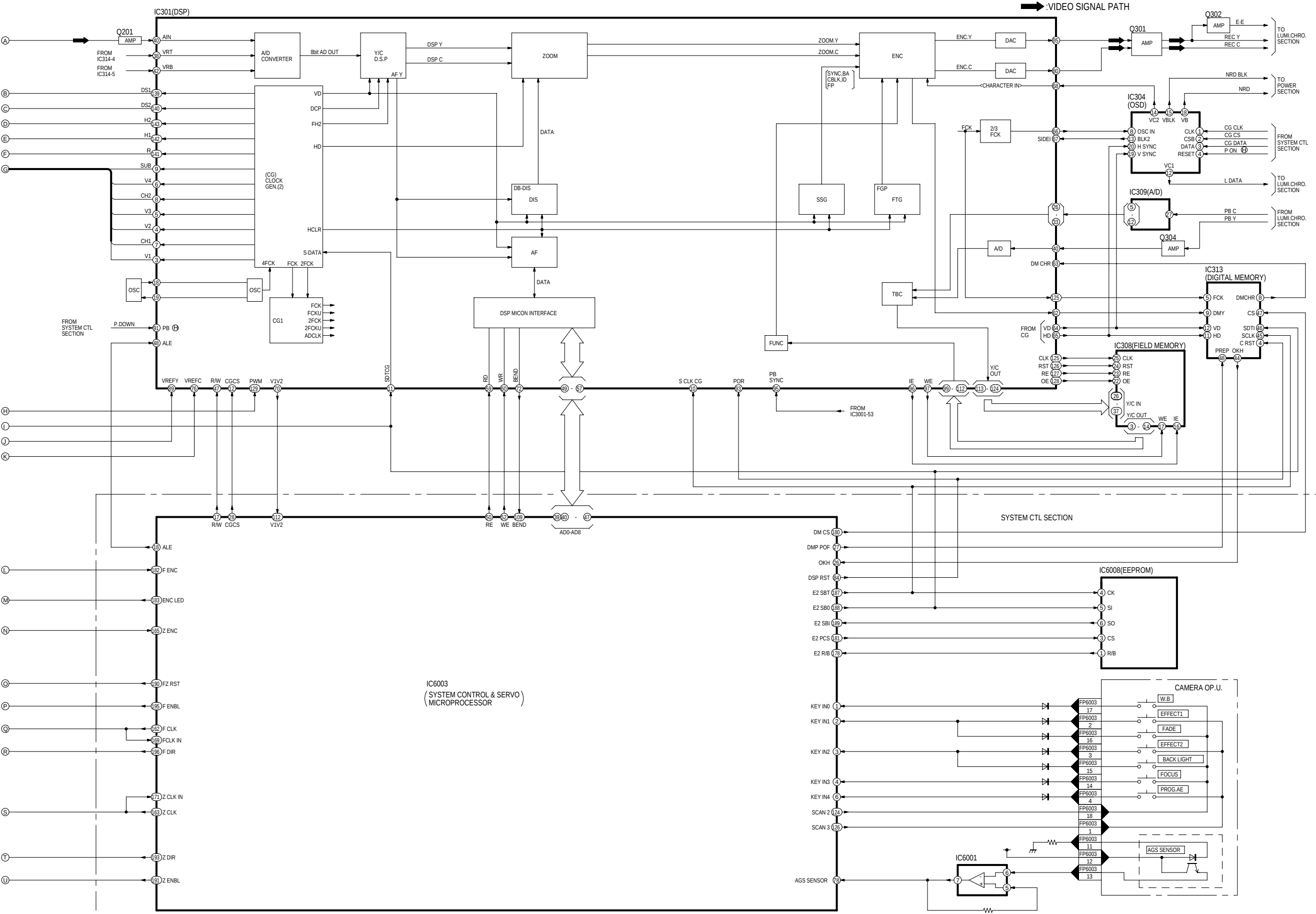
Set [DEMO MODE] on the [MAIN MENU2] Menu to [OFF].

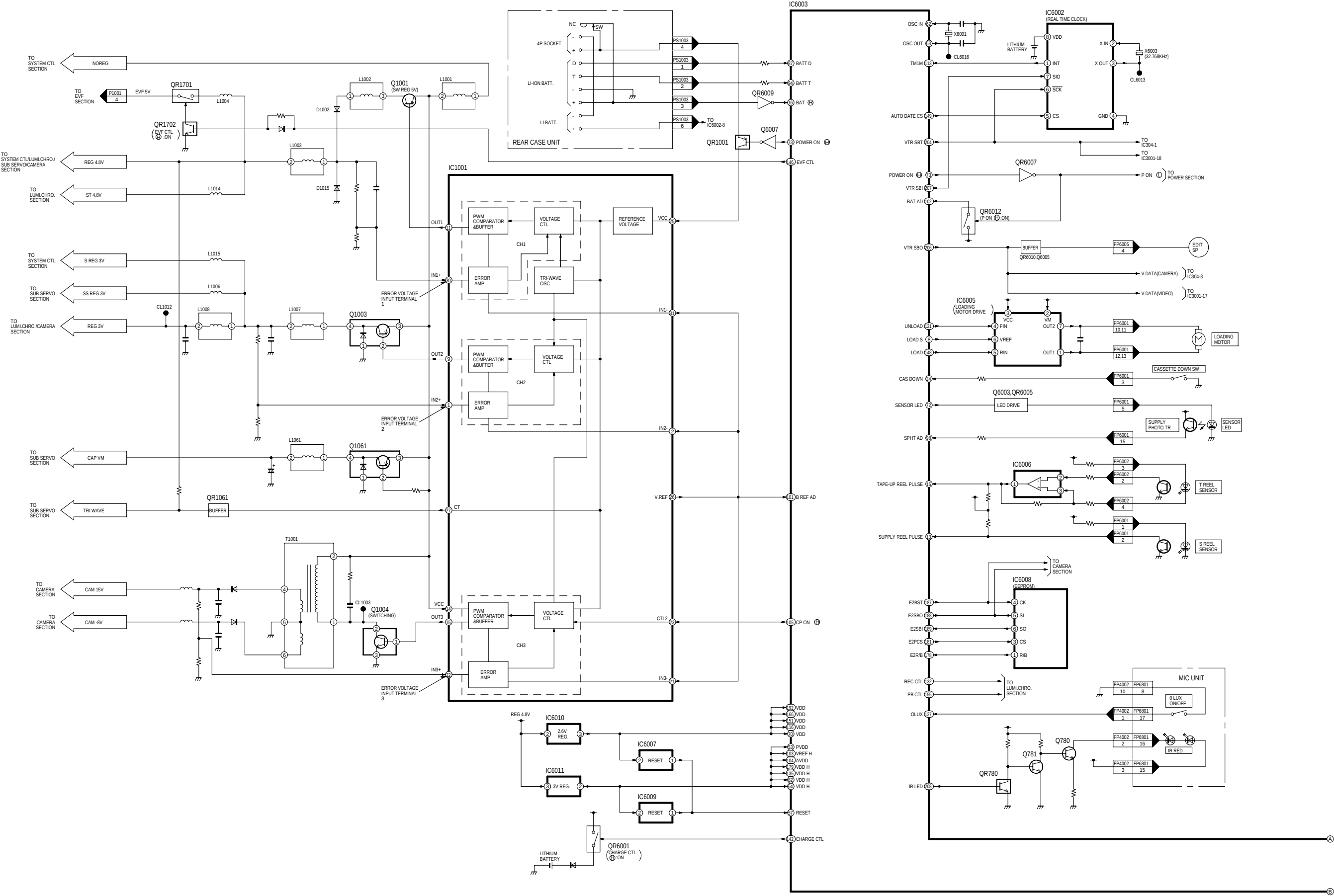
Or, turn in the [POWER] Switch to turn the Movie Camera off, then turn it out again while pressing the [STOP] Button. (This cancels the Demonstration Mode even if [DEMO MODE] on the [MAIN MENU2] Menu is still set to [ON].)

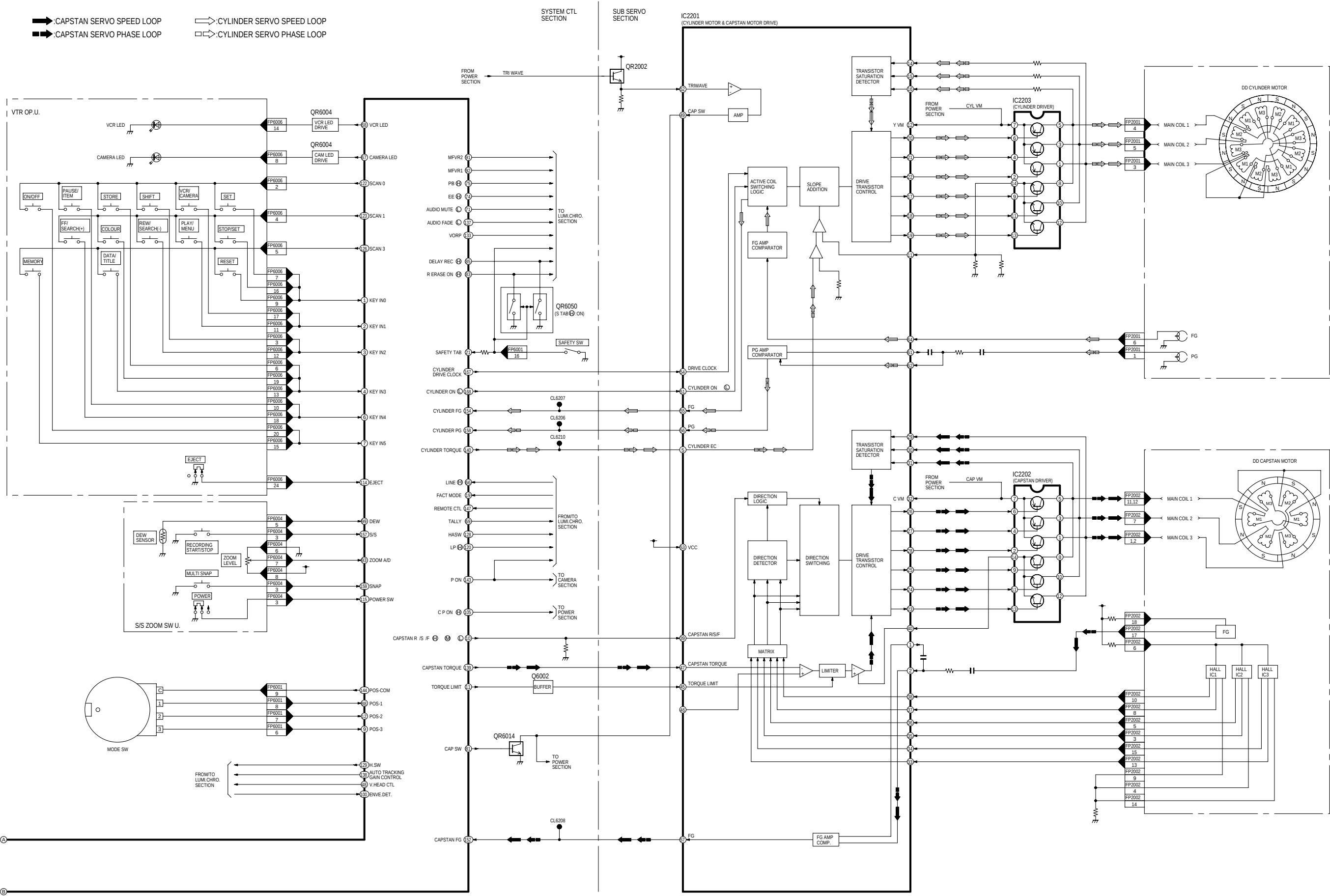
## Reactivating the Demonstration Mode

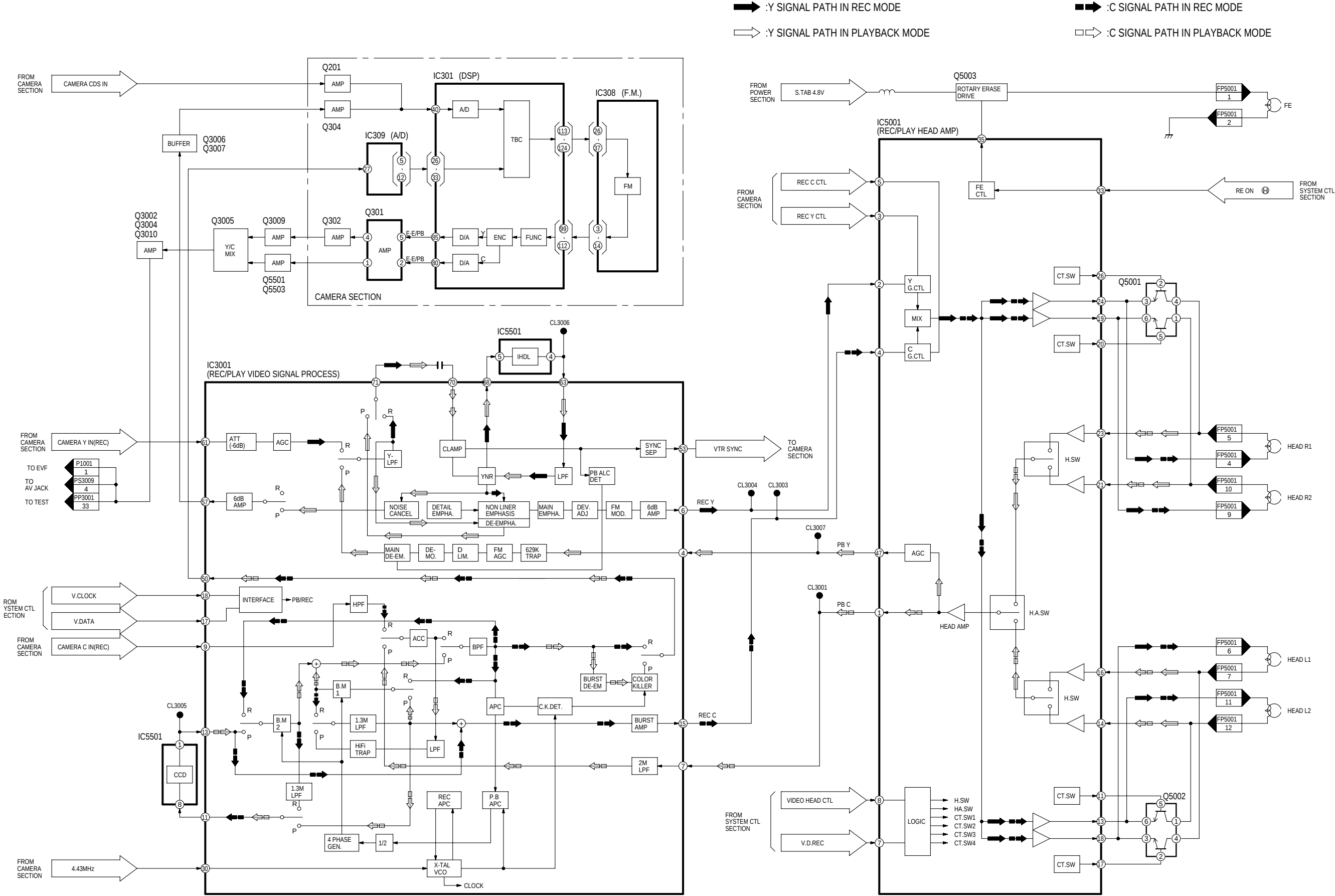
Set [DEMO MODE] on the [MAIN MENU2] Menu to [ON].

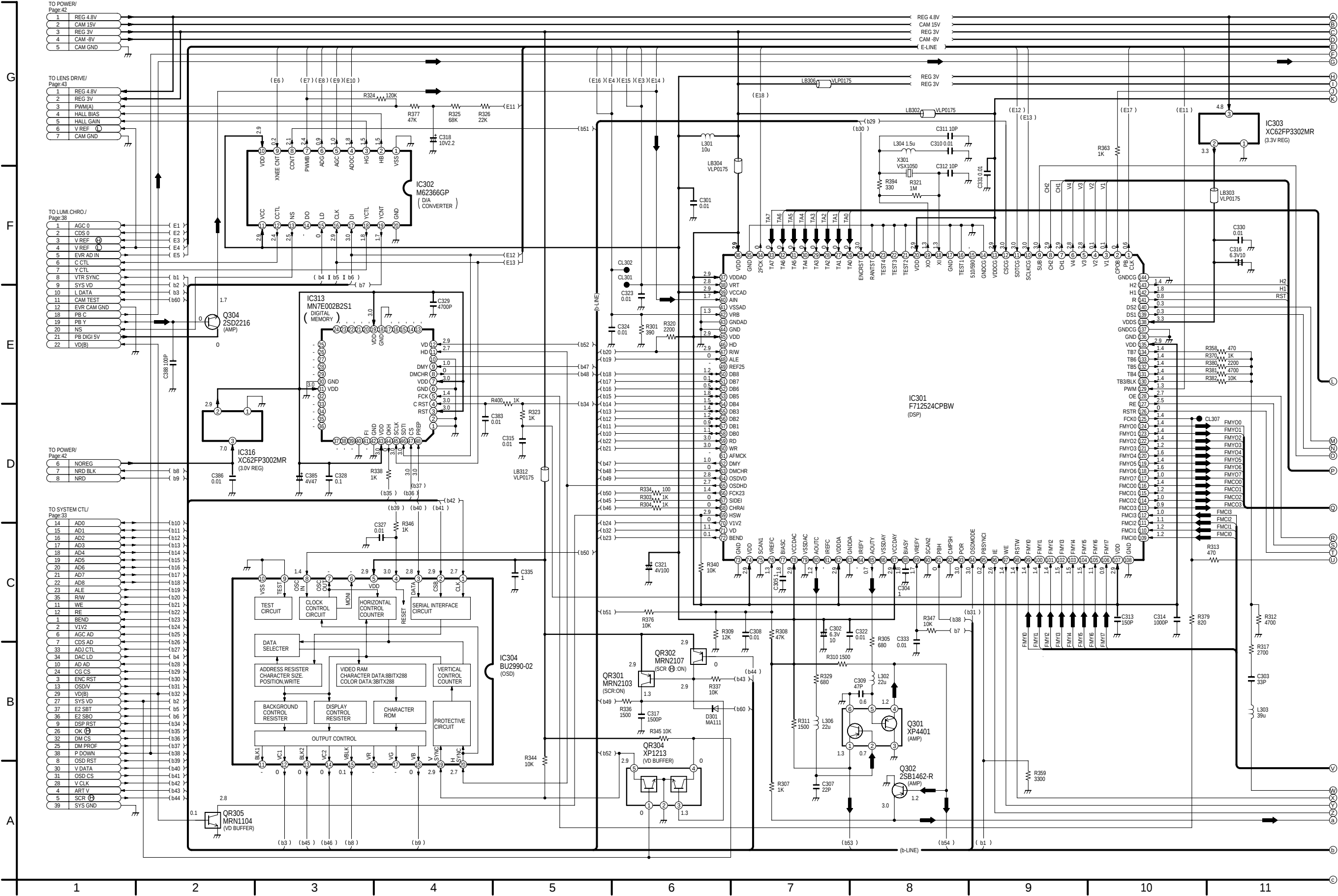
Or, turn out the [POWER] Switch while pressing the [PLAY] Button. (This reactivates the Demonstration Mode even if [DEMO MODE] on the [MAIN MENU2] Menu is still set to [OFF].)













➔ :VIDEO SIGNAL PATH

TO CCD

|     |    |
|-----|----|
| OD  | 1  |
| øR  | 2  |
| RD  | 3  |
| VO  | 4  |
| LG  | 5  |
| H2  | 6  |
| H1  | 7  |
| SUB | 8  |
| PT  | 9  |
| øV1 | 10 |
| øV2 | 11 |
| øV3 | 12 |
| øV4 | 13 |
| PW  | 14 |

R293  
0

D291  
MA153

C292  
35V2.2

C295  
0.1

Q291  
2SC2295  
(BUFFER)

R291  
56

11.7

14.9

R292  
1.5K

TL291

TO CAMERA/  
Page:36  
PS291

|    |         |
|----|---------|
| 12 | PT      |
| 11 | øV1     |
| 10 | øV2     |
| 9  | øV3     |
| 8  | øV4     |
| 7  | PW      |
| 6  | øR      |
| 5  | øH2     |
| 4  | øH1     |
| 3  | SUB     |
| 2  | CAM 15V |
| 1  | OUT     |

TO PP301

TO FRAME GND

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

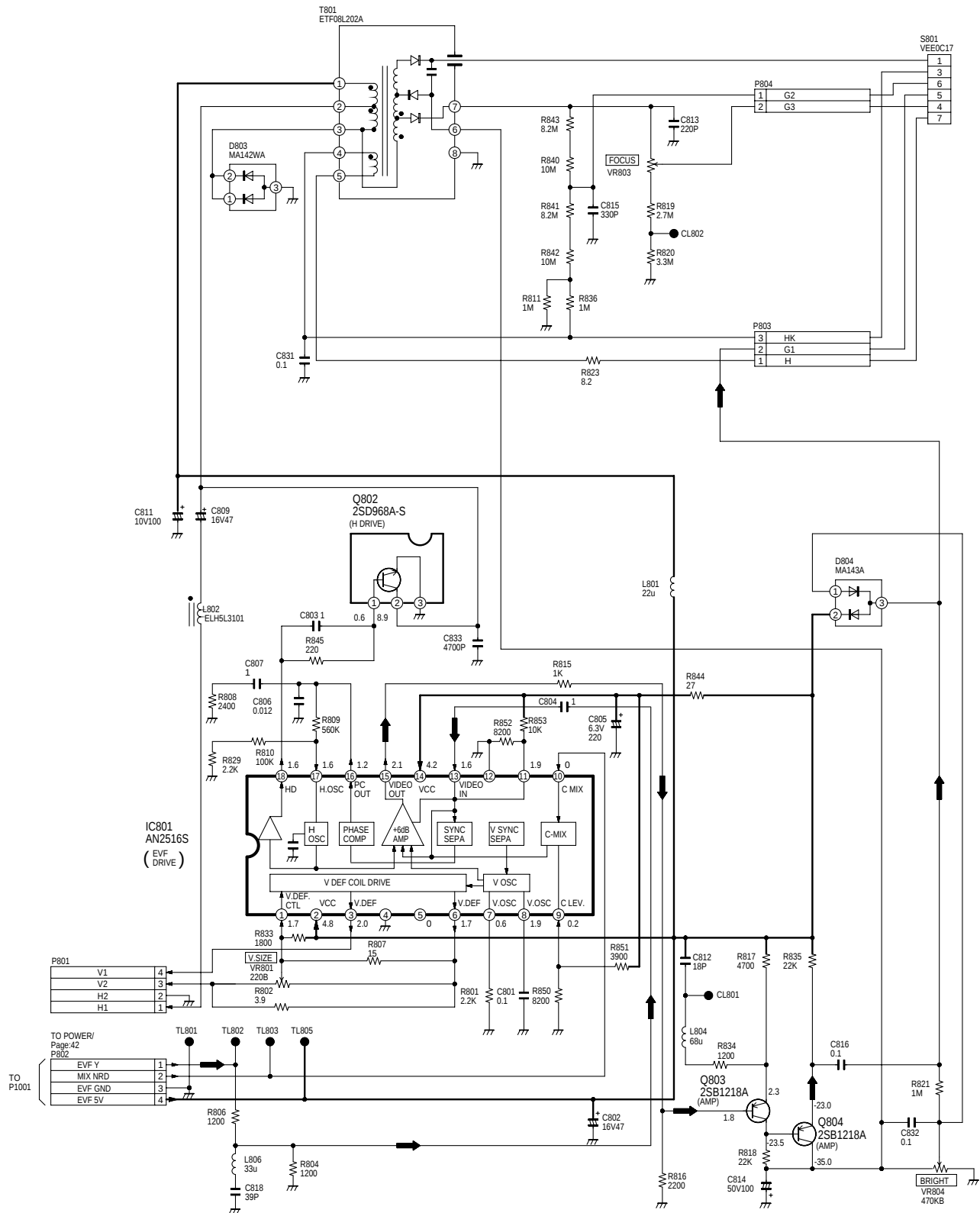
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

1

2

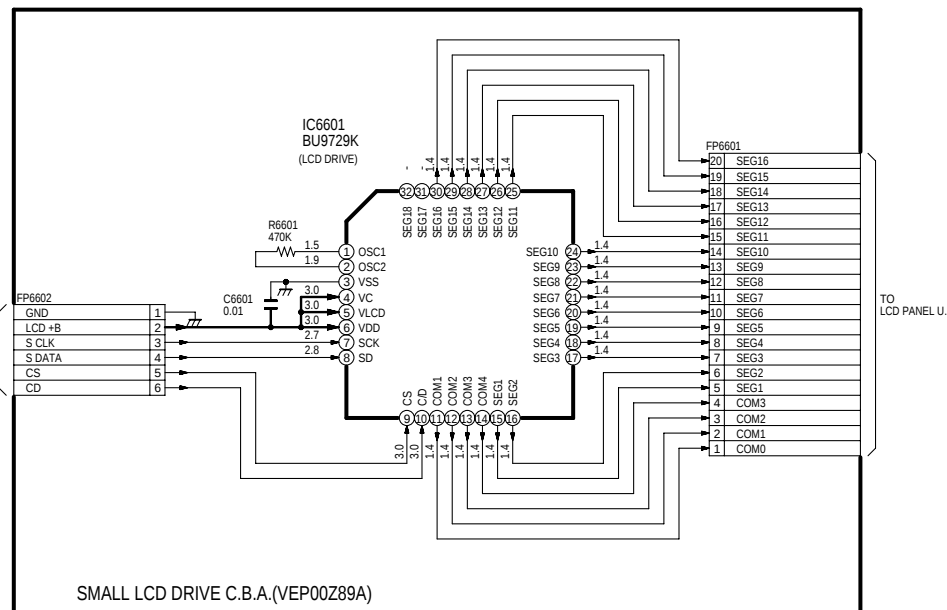
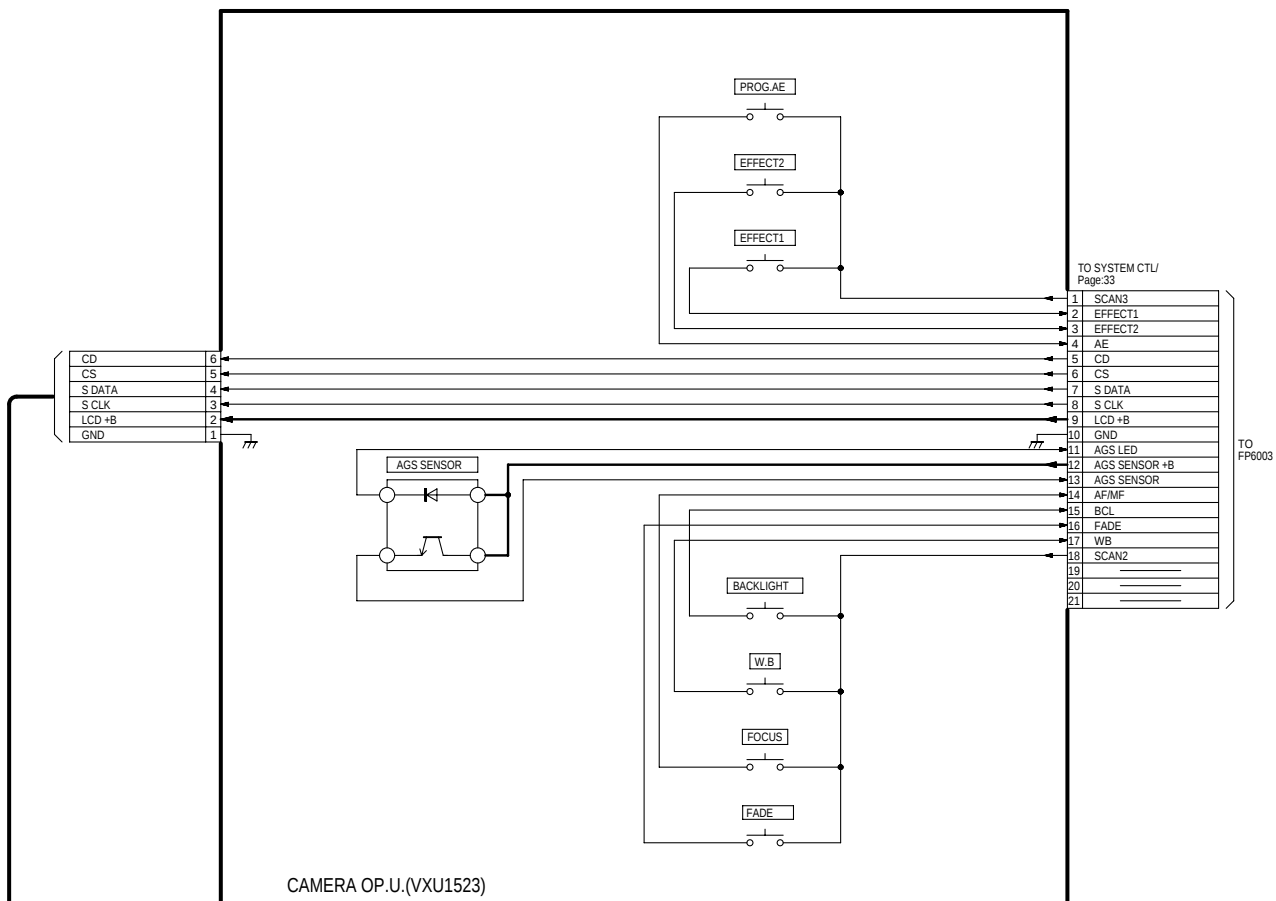
3

4



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.  
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

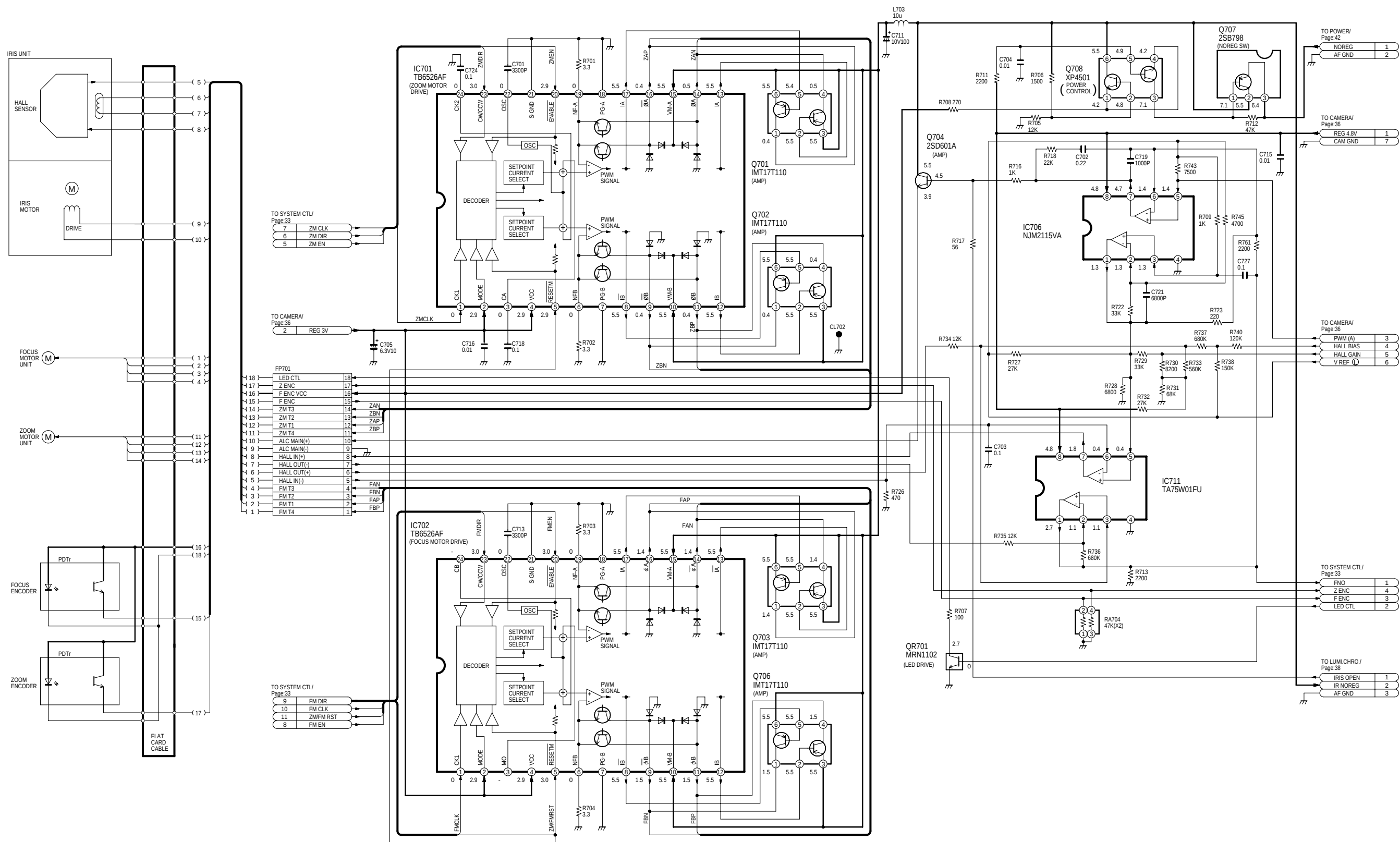
H  
G  
F  
E  
D  
C  
B  
A



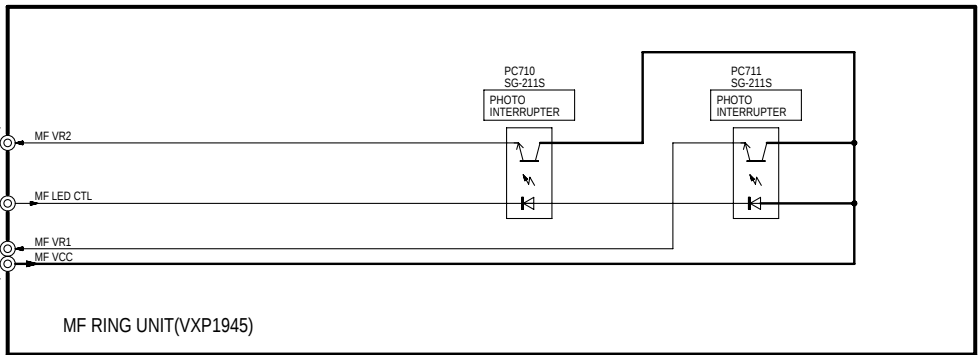
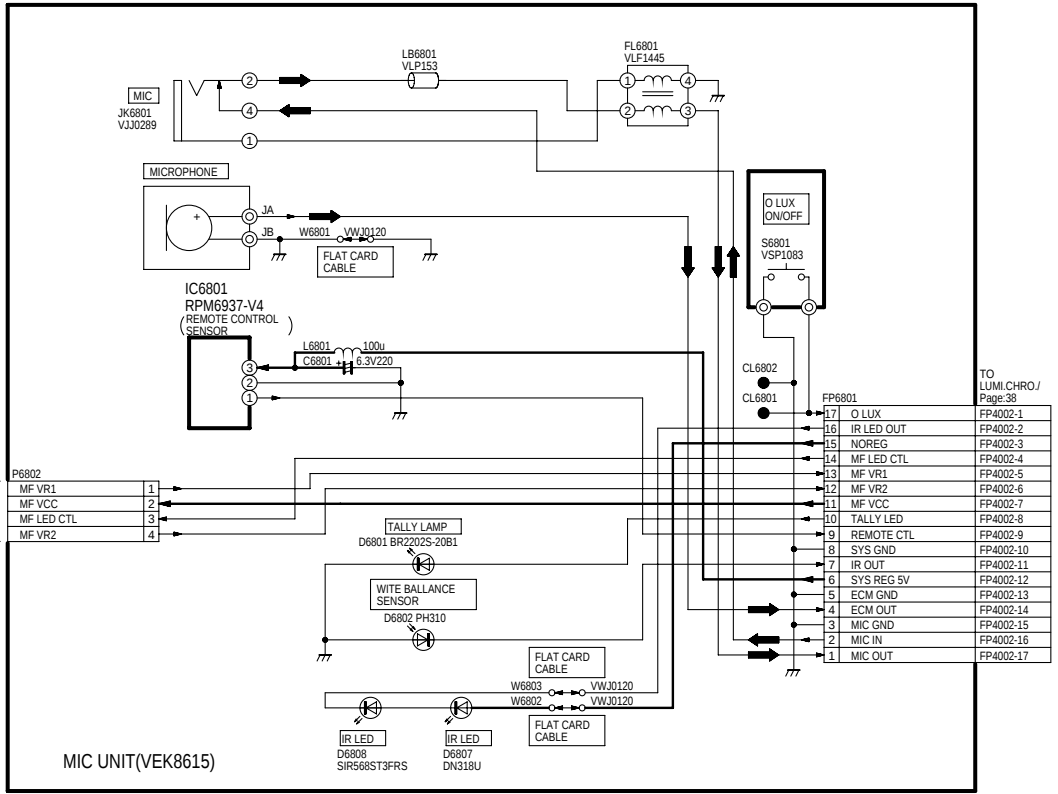
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

H  
G  
F  
E  
D  
C  
B  
A

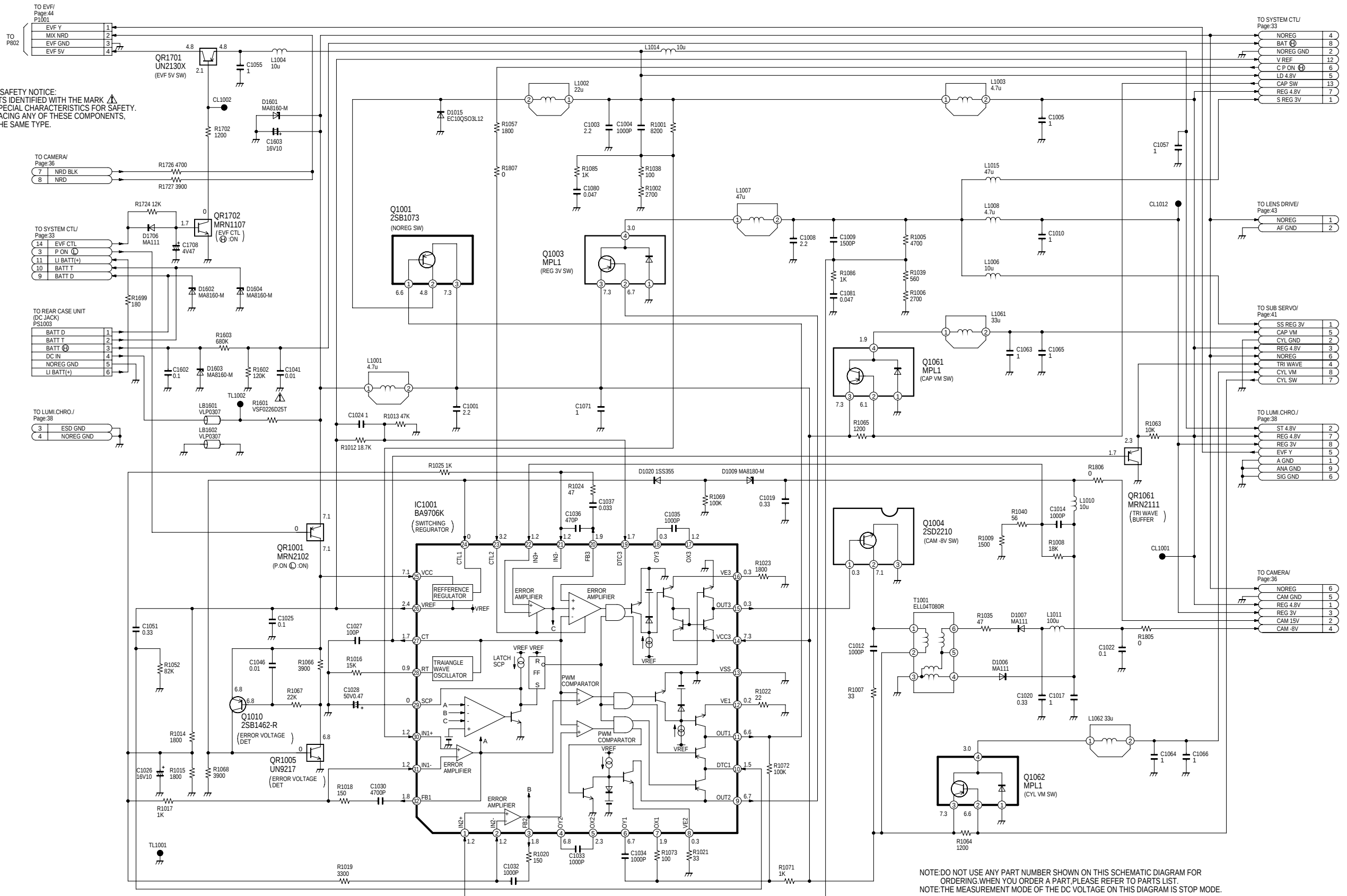


➡ :AUDIO MAIN SIGNAL PATH

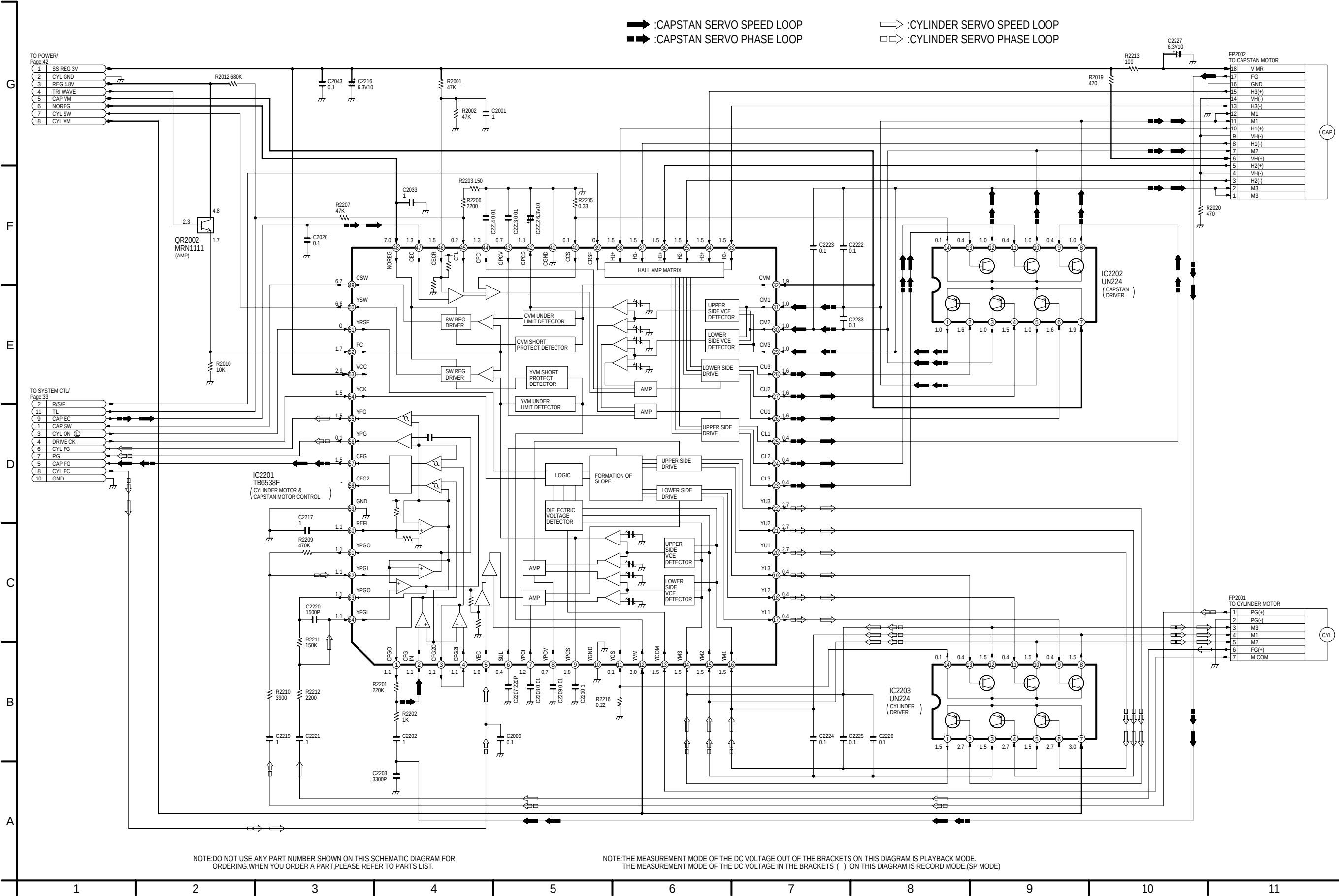


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

IMPORTANT SAFETY NOTICE:  
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.  
WHEN REPLACING ANY OF THESE COMPONENTS,  
USE ONLY THE SAME TYPE.



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR  
ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.  
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.



G

F

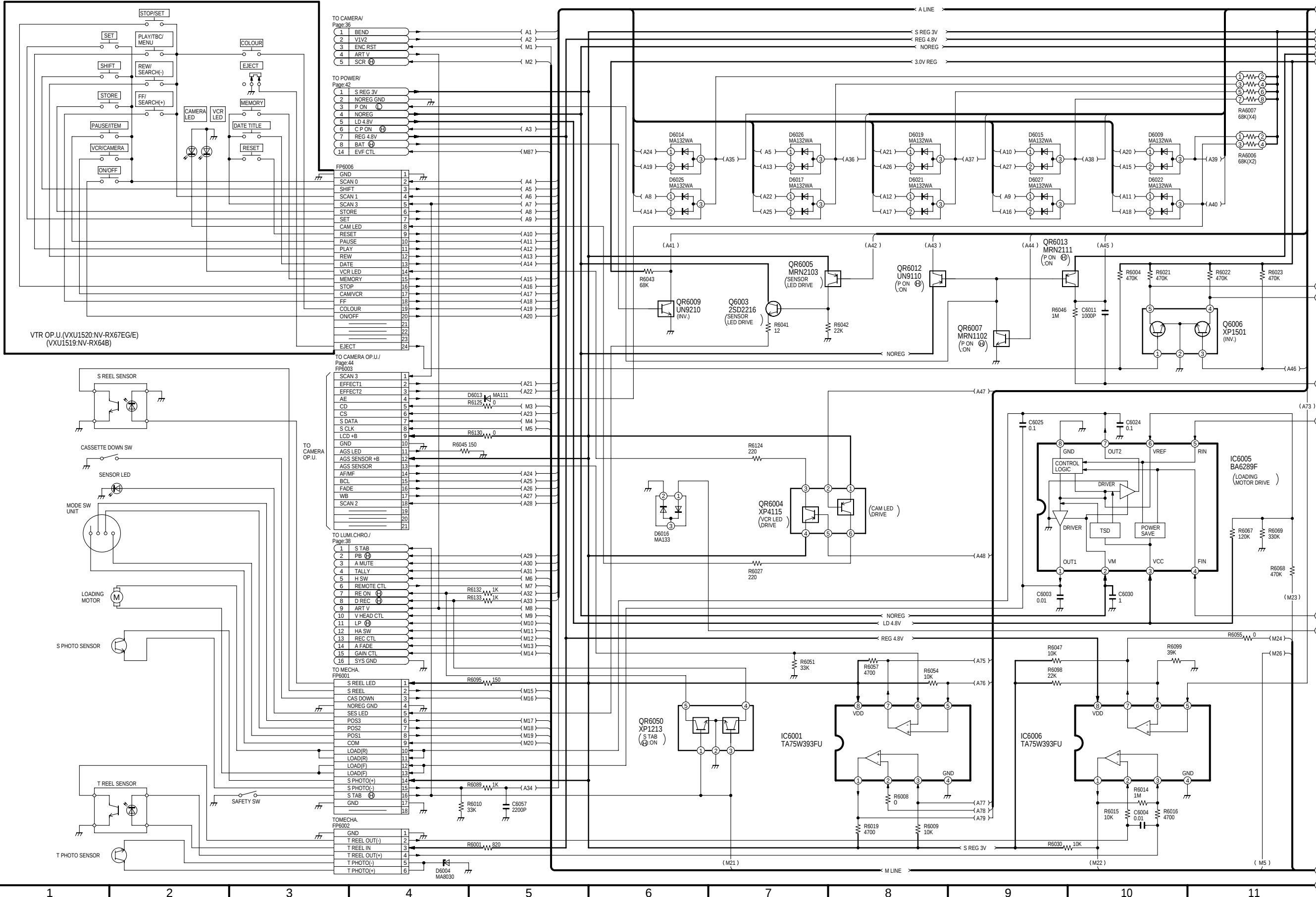
E

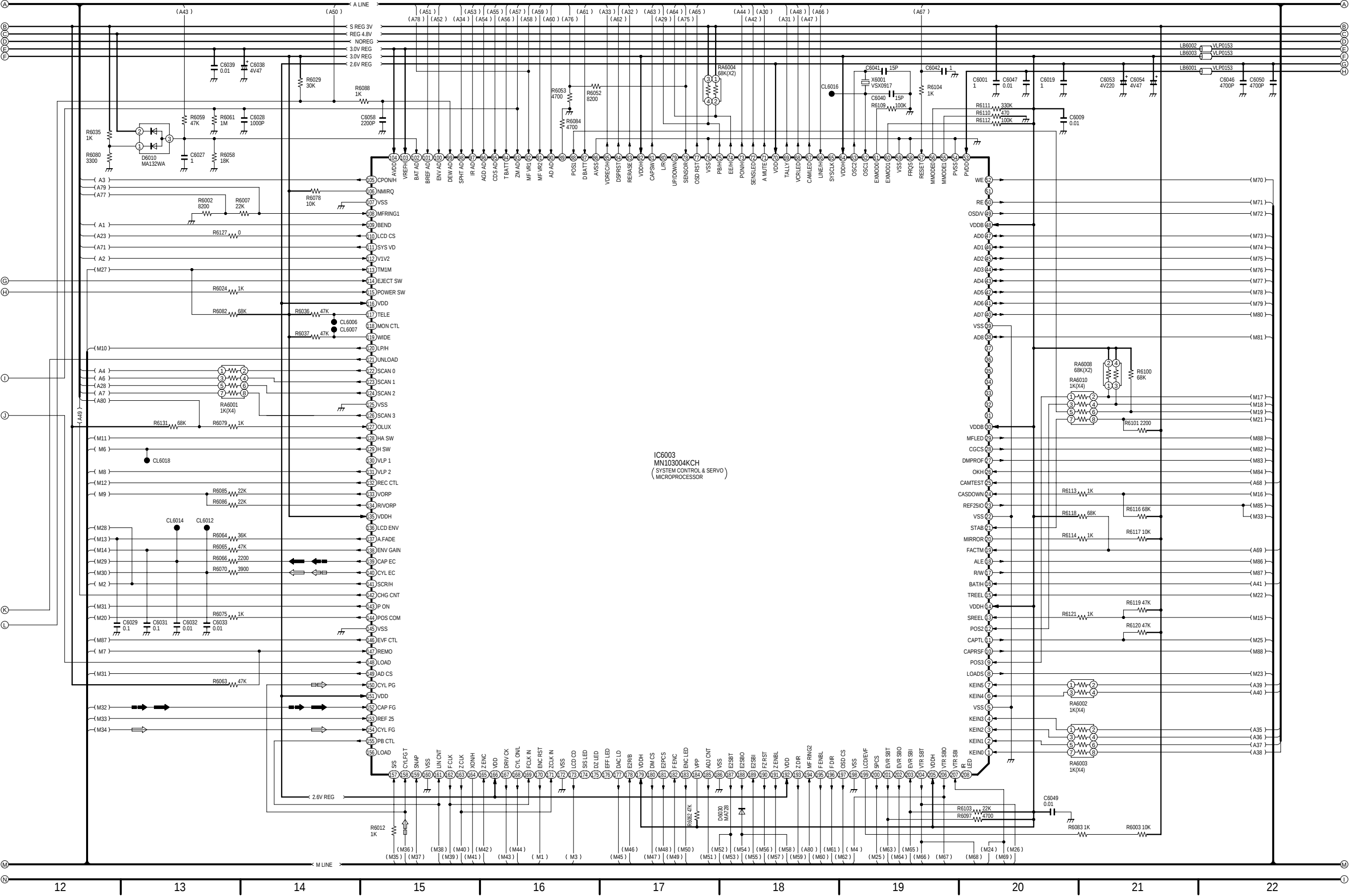
D

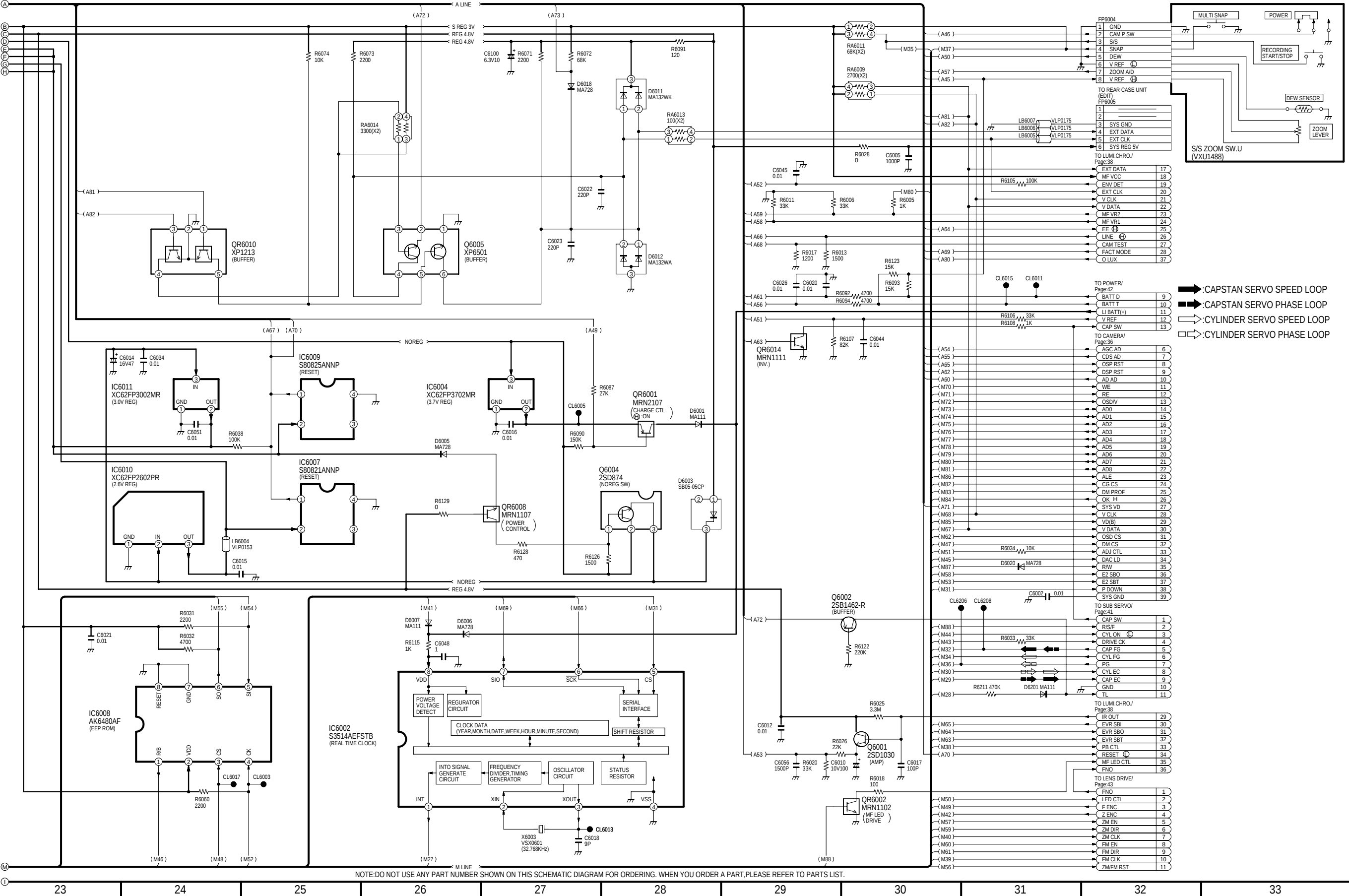
C

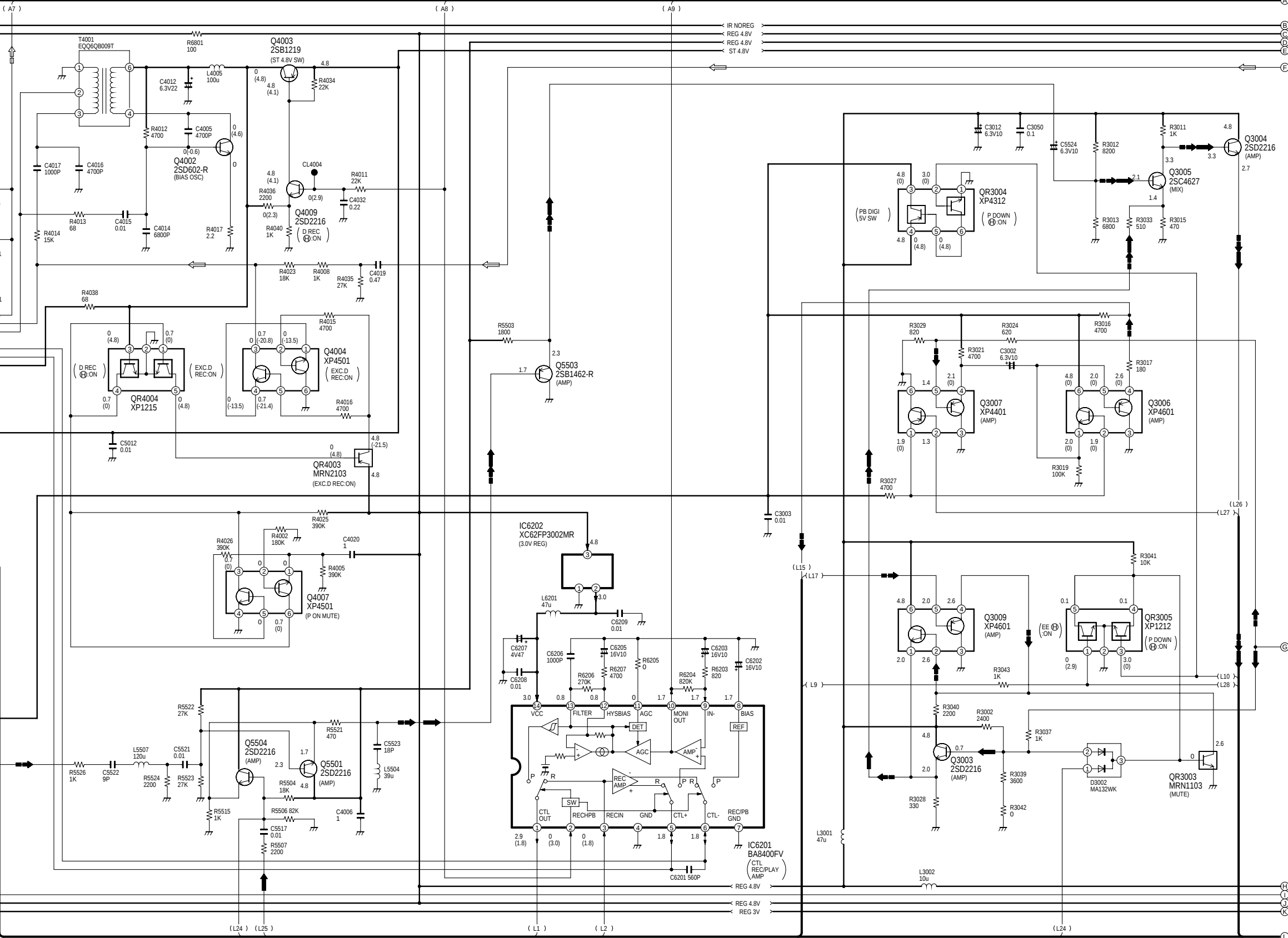
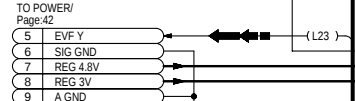
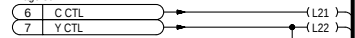
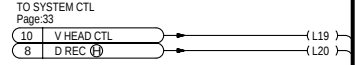
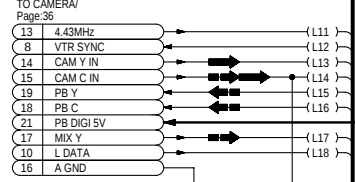
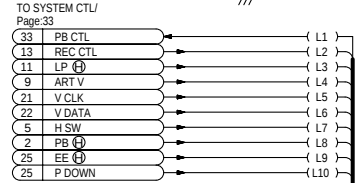
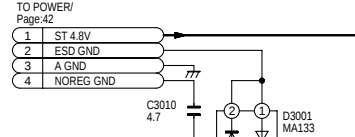
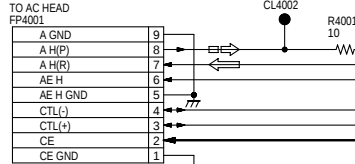
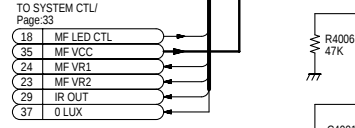
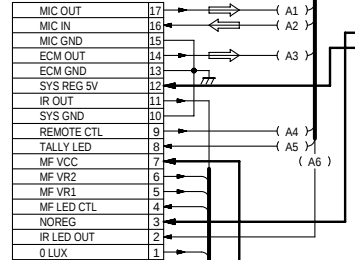
B

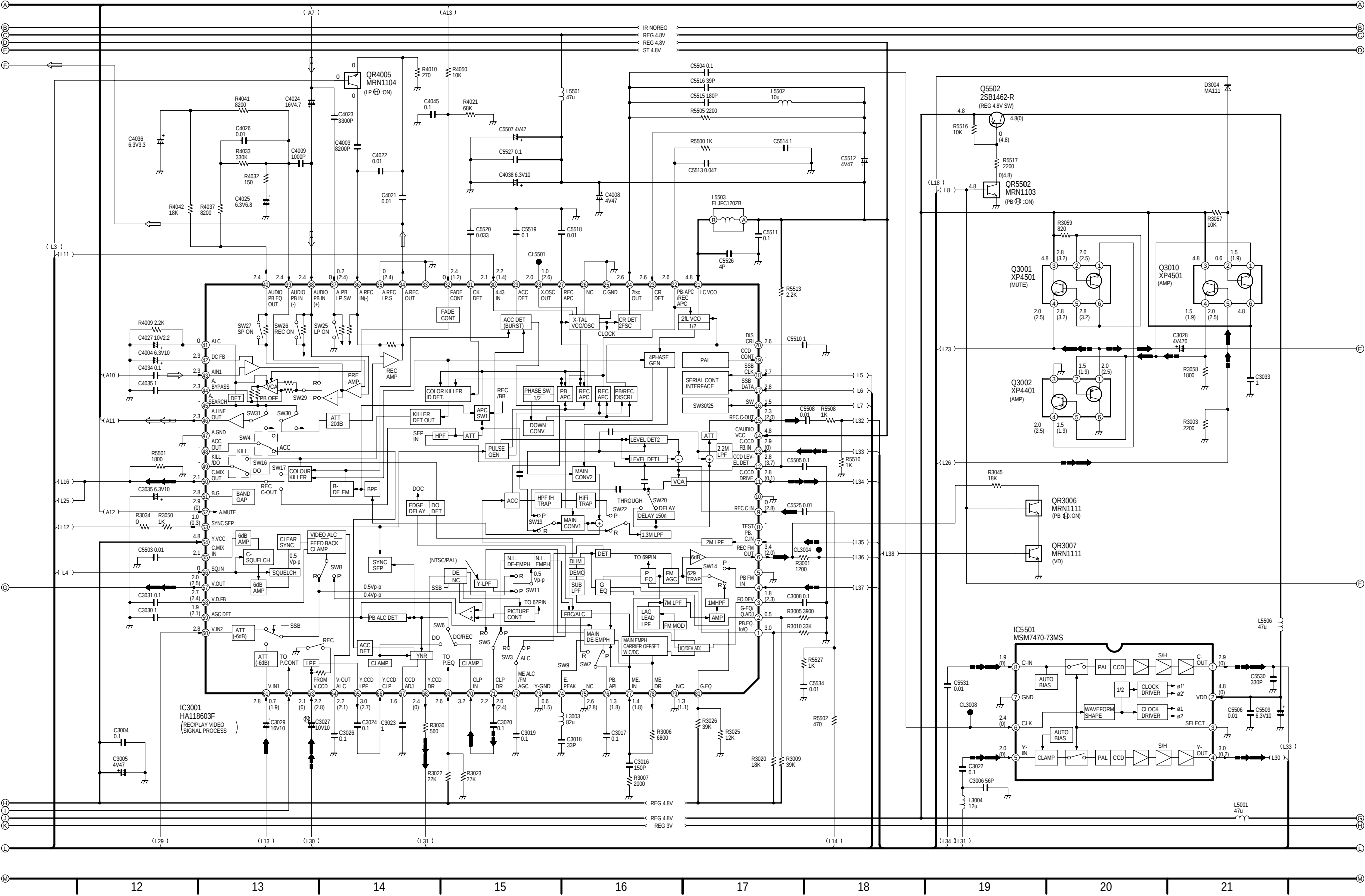
A



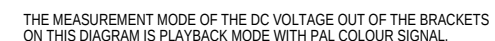


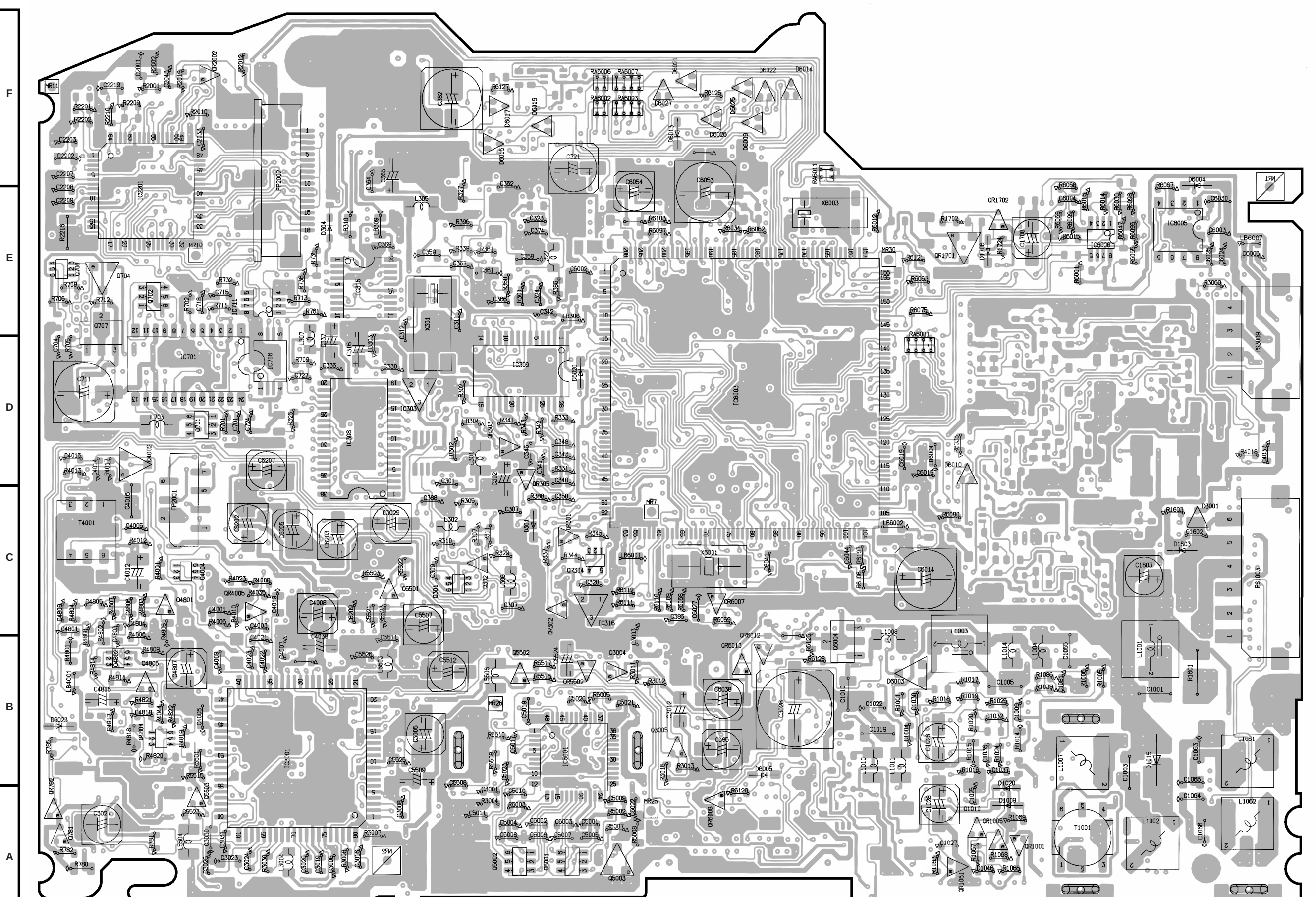






□⇒ :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



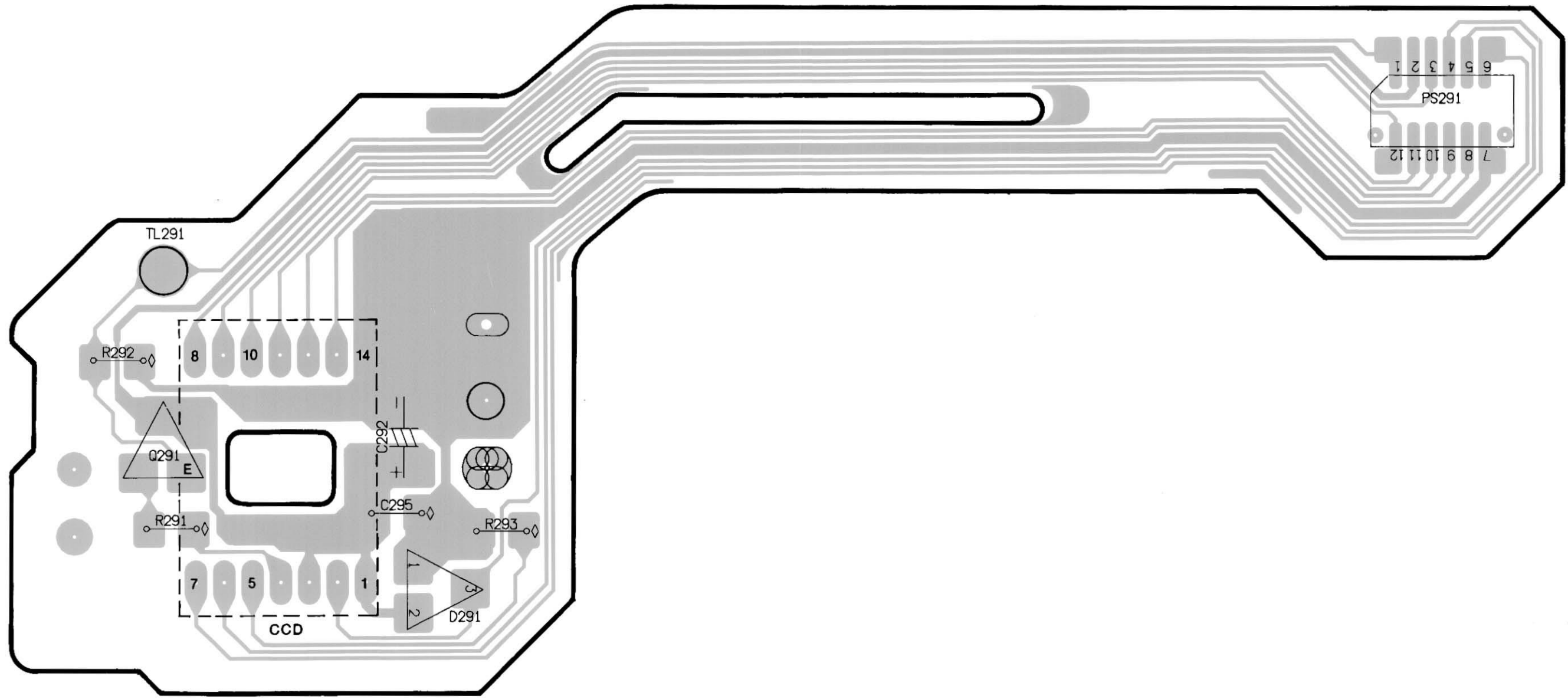


NOTE: MULTILAYER C.B.A.  
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN  
FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH  
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

(COMPONENT SIDE)

B

A



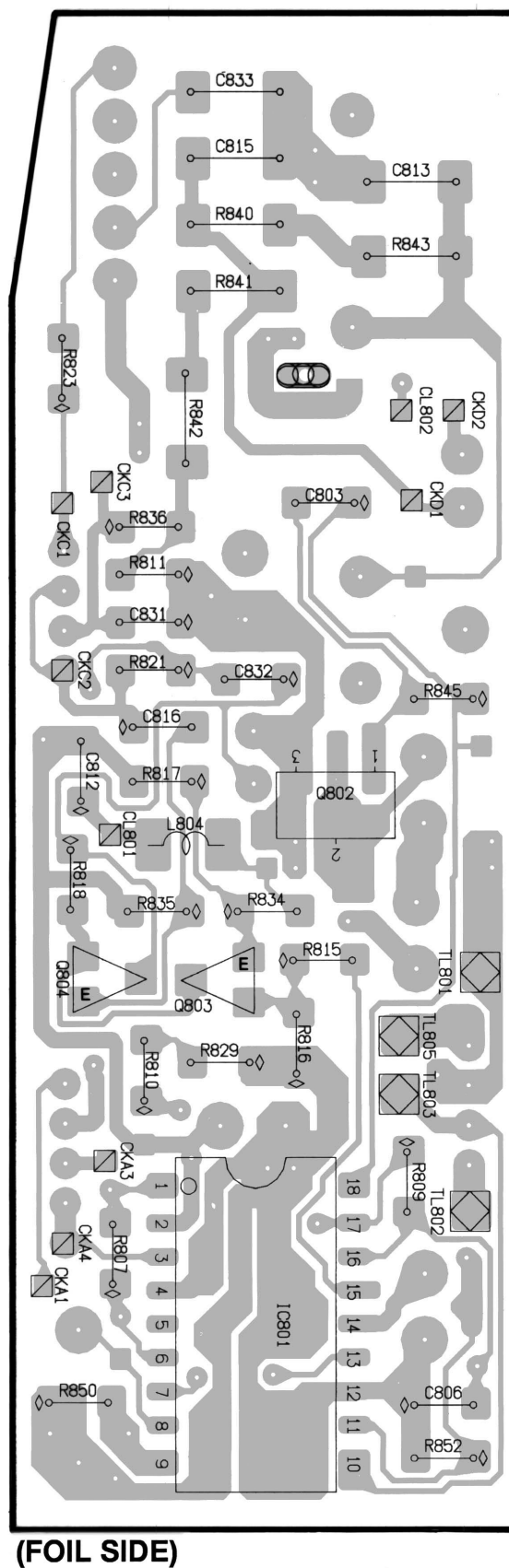
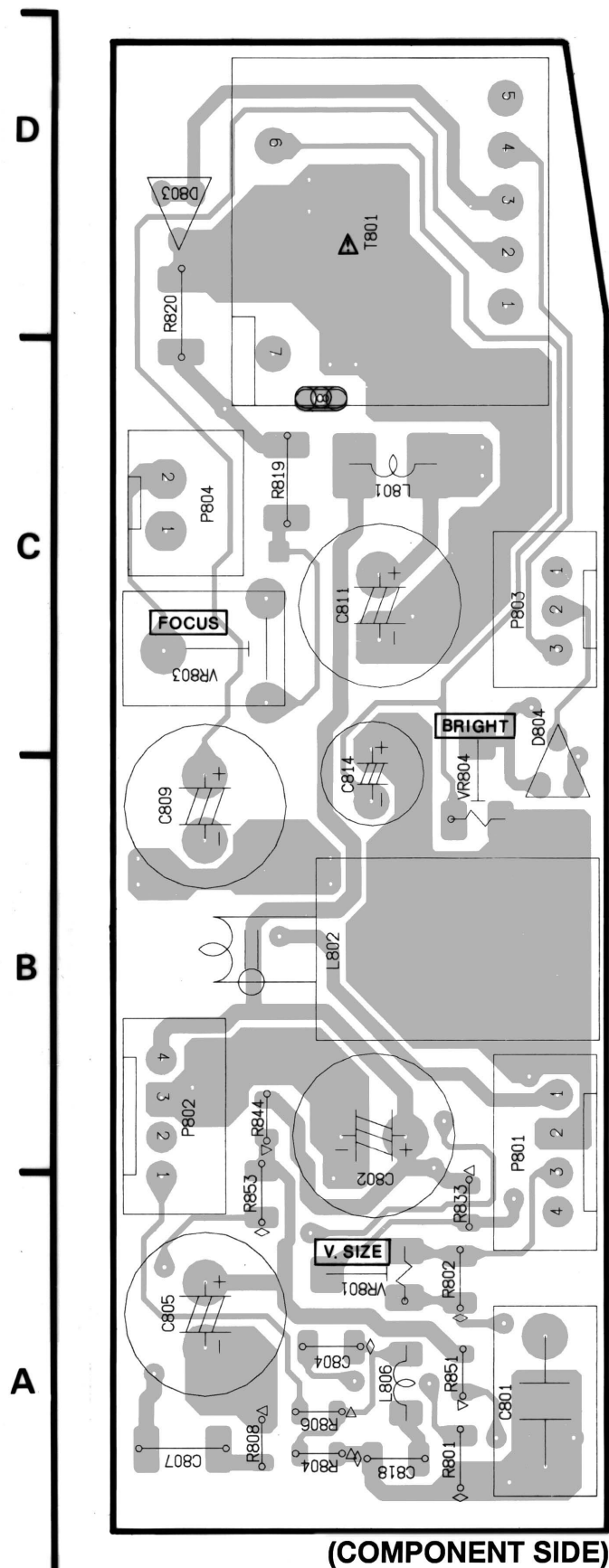
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2

3

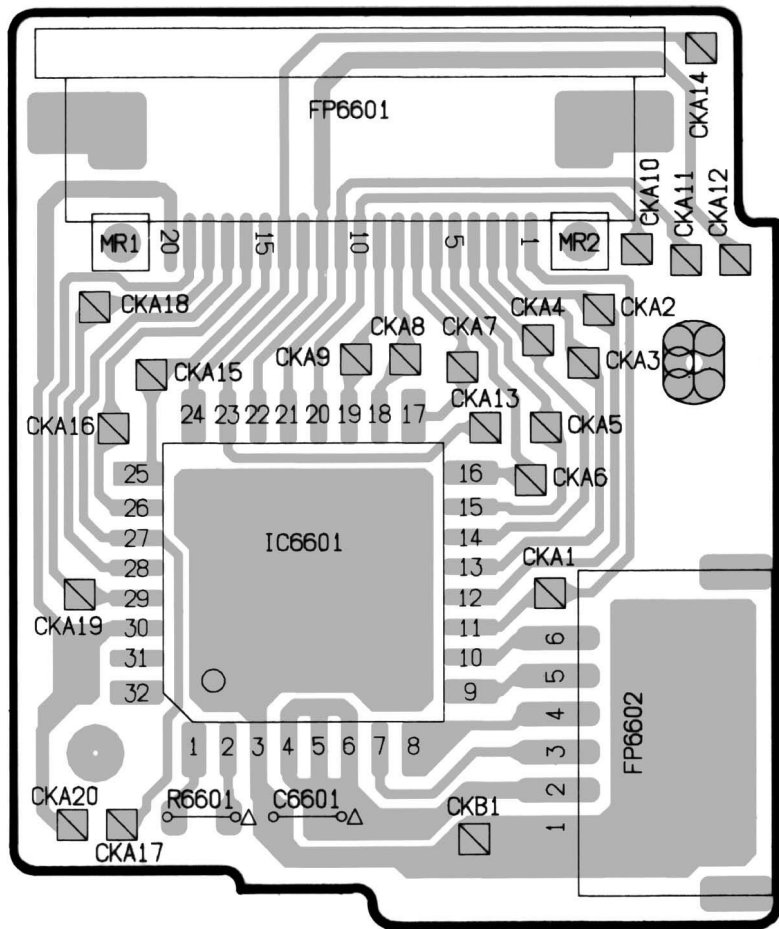
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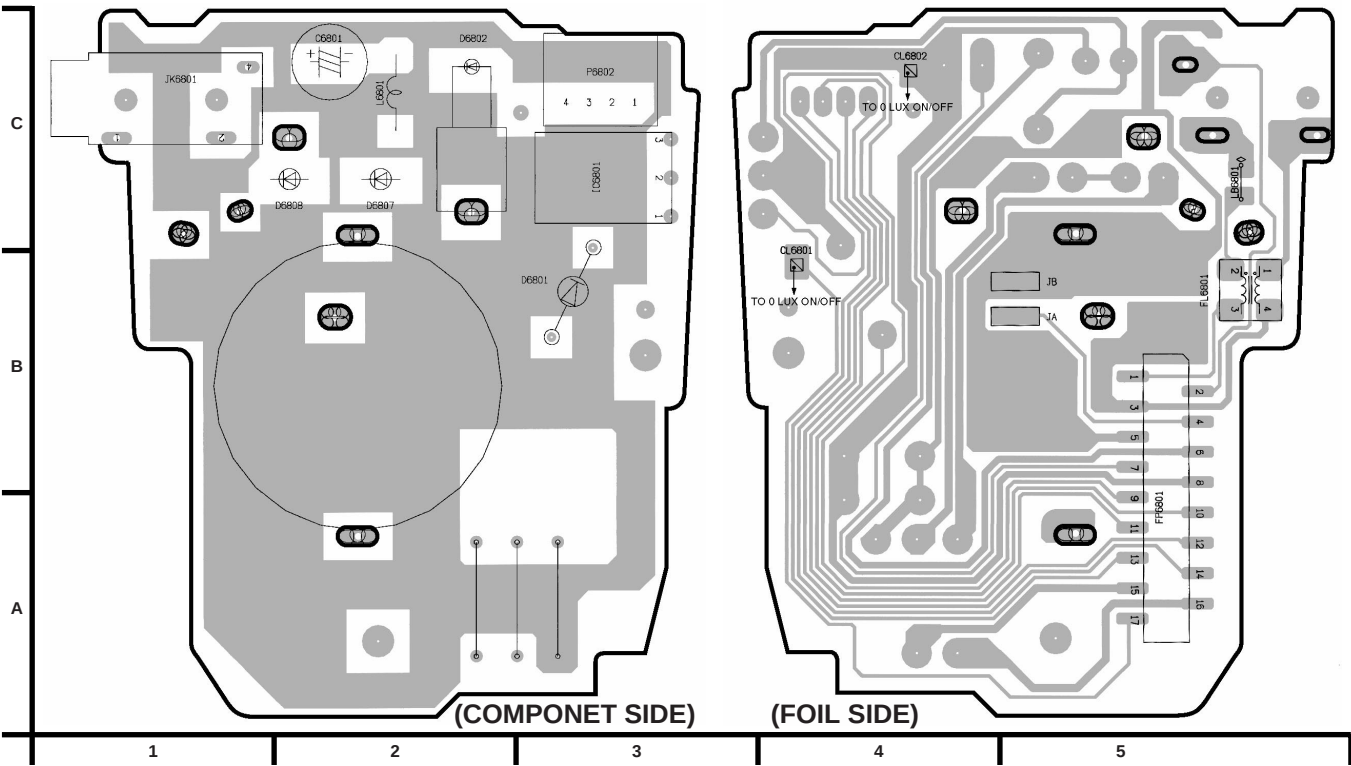
5

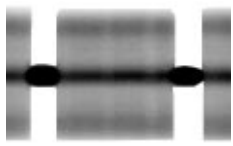
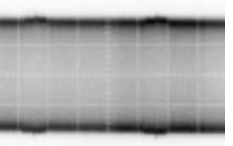
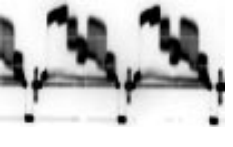
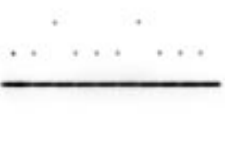
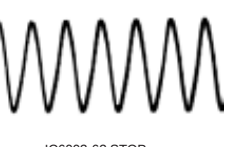
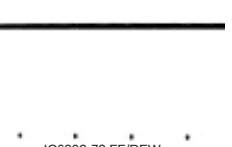
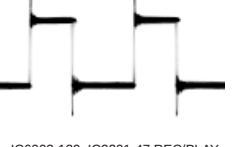
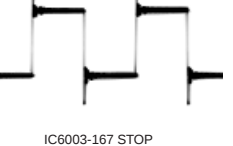
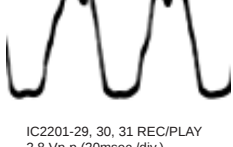
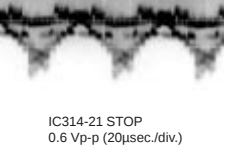
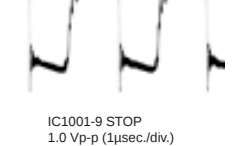
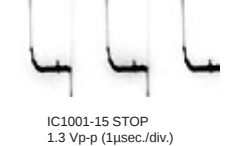
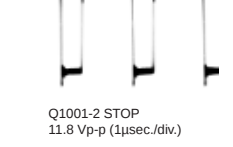
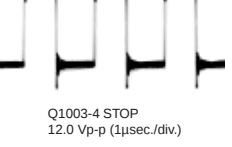
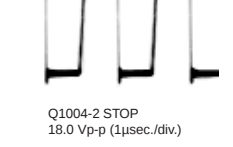
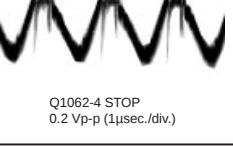
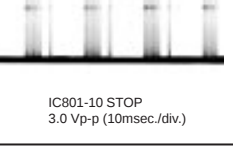
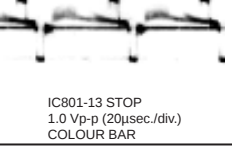
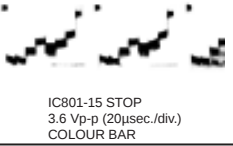


B

A





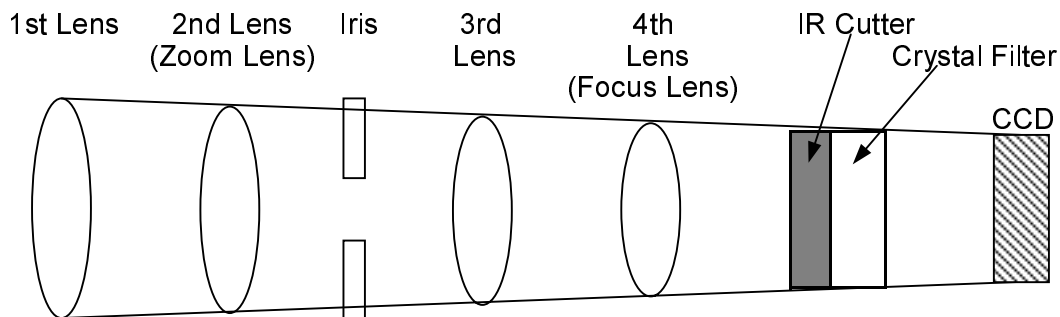
|                                                                                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|     |     |     |     |     |
| IC701-11, 14 POWER ON<br>6.0 Vp-p (5msec./div.)<br>ZOOM MOTOR DRIVING              | IC3001-15 REC<br>0.2 Vp-p (2msec./div.)<br>COLOUR BAR                               | IC3001-9 REC<br>0.5 Vp-p (20μsec./div.)<br>COLOUR BAR                               | IC3001-6 REC<br>0.4 Vp-p (5msec./div.)<br>COLOUR BAR                                 | IC3001-61 REC<br>1.4 Vp-p (20μsec./div.)<br>COLOUR BAR                                |
|    |    |    |    |    |
| IC3001-57 REC<br>2.0 Vp-p (20μsec./div.)<br>COLOUR BAR                             | IC5001-1 PLAY<br>0.4 Vp-p (2msec./div.)<br>COLOUR BAR                               | IC5001-47 PLAY<br>0.2 Vp-p (2msec./div.)<br>COLOUR BAR                              | IC5001-8<br>3.0 Vp-p (20msec./div.)<br>COLOUR BAR                                    | IC6003-13 FF/REW<br>2.2 Vp-p (50msec./div.)                                           |
|    |    |    |    |    |
| IC6003-15 FF/REW<br>3.0 Vp-p (20msec./div.)                                        | IC6003-63 STOP<br>2.6 Vp-p (50msec./div.)                                           | IC6003-72 FF/REW<br>3.0 Vp-p (10msec./div.)                                         | IC6003-139, IC2201-47 REC/PLAY<br>5.2 Vp-p (1μsec./div.)                             | IC6003-140 REC/PLAY<br>5.4 Vp-p (1μsec./div.)                                         |
|    |    |    |    |    |
| IC6003-150, IC2201-56 REC/PLAY<br>3.0 Vp-p (10msec./div.)                          | IC6003-152, IC2201-57 REC/PLAY<br>3.0 Vp-p (0.2msec./div.)                          | IC6003-154, IC2201-55 REC/PLAY<br>3.0 Vp-p (1msec./div.)                            | IC6003-167 STOP<br>5.4 Vp-p (0.5μsec./div.)                                          | IC2201-2, 14, 15 REC/PLAY<br>2.8 Vp-p (1msec./div.)                                   |
|   |   |   |   |   |
| IC2201-29, 30, 31 REC/PLAY<br>2.8 Vp-p (20msec./div.)                              | IC2201-52 REC/PLAY<br>0.6 Vp-p (0.5μsec./div.)                                      | IC301-40 STOP<br>1.0 Vp-p (20μsec./div.)<br>GRAY SCALE                              | IC301-85 STOP<br>1.5 Vp-p (20μsec./div.)<br>COLOUR BAR                               | IC301-80 STOP<br>1.5 Vp-p (20μsec./div.)<br>COLOUR BAR                                |
|  |  |  |  |  |
| IC314-8 STOP<br>1.2 Vp-p (20μsec./div.)<br>GRAY SCALE                              | IC314-21 STOP<br>0.6 Vp-p (20μsec./div.)<br>GRAY SCALE                              | IC1001-9 STOP<br>1.0 Vp-p (1μsec./div.)                                             | IC1001-11 STOP<br>1.4 Vp-p (1μsec./div.)                                             | IC1001-15 STOP<br>1.3 Vp-p (1μsec./div.)                                              |
|  |  |  |  |  |
| IC1001-27 STOP<br>0.6 Vp-p (1μsec./div.)                                           | Q1001-2 STOP<br>11.8 Vp-p (1μsec./div.)                                             | Q1003-4 STOP<br>12.0 Vp-p (1μsec./div.)                                             | Q1004-2 STOP<br>18.0 Vp-p (1μsec./div.)                                              | Q1061-4 STOP<br>0.2 Vp-p (1μsec./div.)                                                |
|  |  |  |  |  |
| Q1062-4 STOP<br>0.2 Vp-p (1μsec./div.)                                             | IC801-10 STOP<br>3.0 Vp-p (10msec./div.)                                            | IC801-13 STOP<br>1.0 Vp-p (20μsec./div.)<br>COLOUR BAR                              | IC801-15 STOP<br>3.6 Vp-p (20μsec./div.)<br>COLOUR BAR                               |                                                                                       |

| Camera/Main C.B.A. |     |   |                       |     |   |        |     |     |       |       |   |       |     |   |      |       |   |       |     |      |       |     |   |       |     |       |      |     |   |       |     |       |       |       |     |   |       |       |     |       |       |     |   |       |       |     |       |       |     |       |       |       |     |       |       |       |   |       |       |     |       |       |     |     |       |       |     |       |       |     |   |       |       |     |       |       |     |   |       |       |     |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     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|   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |
|--------------------|-----|---|-----------------------|-----|---|--------|-----|-----|-------|-------|---|-------|-----|---|------|-------|---|-------|-----|------|-------|-----|---|-------|-----|-------|------|-----|---|-------|-----|-------|-------|-------|-----|---|-------|-------|-----|-------|-------|-----|---|-------|-------|-----|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|---|-------|-------|-----|-------|-------|-----|-----|-------|-------|-----|-------|-------|-----|---|-------|-------|-----|-------|-------|-----|---|-------|-------|-----|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|-----|---|---|-------|-----|---|-------|----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| Integrated Circuit |     |   | Transistor & Resistor |     |   | CL1001 |     | B-3 |       | CKK17 |   | E-7   |     | F |      | L1001 |   | B-8   |     | C358 |       | E-4 |   | C     |     | C2214 |      | F-8 |   | F     |     | C5005 |       | A-4   |     | C |       | C6048 |     | E-4   |       | F   |   | R705  |       | D-1 |       | C     |     | R2019 |       | F-2   |     | C     |       | R4036 |   | C-8   |       | F   |       | R6033 |     | E-4 |       | F     |     | R6203 |       | C-7 |   | F     |       |     |       |       |     |   |       |       |     |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     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|   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |
| IC301              | D-6 | F | QR301                 | C-4 | C | CL1002 | E-3 | F   | CKK18 | E-7   | F | L1002 | A-8 | C | C359 | E-3   | C | C2216 | F-8 | F    | C5006 | A-4 | C | C6049 | C-5 | F     | R706 | E-1 | C | R2020 | F-7 | F     | C     | R4037 | B-7 | F | F     | R6034 | E-5 | C     | R6204 | C-7 | F | F     | R6035 | D-7 | C     | R6205 | C-7 | F     | F     | R6036 | D-4 | F     | R6206 | D-8   | F | F     | R6037 | D-3 | F     | R6207 | D-7 | F   | F     | R6038 | D-3 | F     | R6211 | D-4 | F | F     | R6041 | D-3 | F     | R6801 | B-8 | F | F     | R6802 | B-8 | F     | F   |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |   |   |       |     |   |       |     |
| IC302              | E-5 | F | QR302                 | C-4 | C | CL1012 | B-4 | F   | CKN2  | F-1   | F | L1003 | C-7 | C | C360 | E-6   | F | C2217 | F-9 | F    | C5007 | A-4 | C | C6050 | E-5 | F     | R707 | E-9 | F | R2201 | F-1 | C     | R4038 | C-8   | F   | F | R6039 | D-7   | C   | R6208 | C-7   | F   | F | R6040 | D-7   | C   | R6209 | C-7   | F   | F     | R6041 | D-7   | C   | R6210 | C-7   | F     | F | R6042 | D-7   | C   | R6211 | D-7   | F   | F   | R6043 | D-7   | C   | R6212 | D-7   | F   | F | R6044 | D-7   | C   | R6213 | D-7   | F   | F | R6045 | D-7   | C   | R6214 | D-7 | F | F | R6046 | D-7 | C | R6215 | D-7 | F | F | R6047 | D-7 | C | R6216 | D-7 | F | F | R6048 | D-7 | C | R6217 | D-7 | F | F | R6049 | D-7 | C | R6218 | D-7 | F | F | R6050 | D-7 | C | R6219 | D-7 | F | F | R6051 | D-7 | C | R6220 | D-7 | F | F | R6052 | D-7 | C | R6221 | D-7 | F | F | R6053 | D-7 | C | R6222 | D-7 | F | F | R6054 | D-7 | C | R6223 | D-7 | F | F | R6055 | D-7 | C | R6224 | D-7 | F | F | R6056 | D-7 | C | R6225 | D-7 | F | F | R6057 | D-7 | C | R6226 | D-7 | F | F | R6058 | D-7 | C | R6227 | D-7 | F | F | R6059 | D-7 | C | R6228 | D-7 | F | F | R6060 | D-7 | C | R6229 | D-7 | F | F | R6061 | D-7 | C | R6230 | D-7 | F | F | R6062 | D-7 | C | R6231 | D-7 | F | F | R6063 | D-7 | C | R6232 | D-7 | F | F | R6064 | D-7 | C | R6233 | D-7 | F | F | R6065 | D-7 | C | R6234 | D-7 | F | F | R6066 | D-7 | C | R6235 | D-7 | F | F | R6067 | D-7 | C | R6236 | D-7 | F | F | R6068 | D-7 | C | R6237 | D-7 | F | F | R6069 | D-7 | C | R6238 | D-7 | F | F | R6070 | D-7 | C | R6239 | D-7 | F | F | R6071 | D-7 | C | R6240 | D-7 | F | F | R6072 | D-7 | C | R6241 | D-7 | F | F | R6073 | D-7 | C | R6242 | D-7 | F | F | R6074 | D-7 | C | R6243 | D-7 | F | F | R6075 | D-7 | C | R6244 | D-7 | F | F | R6076 | D-7 | C | R6245 | D-7 | F | F | R6077 | D-7 | C | R6246 | D-7 | F | F | R6078 | D-7 | C | R6247 | D-7 | F | F | R6079 | D-7 | C | R6248 | D-7 | F | F | R6080 | D-7 | C | R6249 | D-7 | F | F | R6081 | D-7 | C | R6250 | D-7 | F | F | R6082 | D-7 | C | R6251 | D-7 | F | F | R6083 | D-7 | C | R6252 | D-7 | F | F | R6084 | D-7 | C | R6253 | D-7 | F | F | R6085 | D-7 | C | R6254 | D-7 | F | F | R6086 | D-7 | C | R6255 | D-7 | F | F | R6087 | D-7 | C | R6256 | D-7 | F | F | R6088 | D-7 | C | R6257 | D-7 | F | F | R6089 | D-7 | C | R6258 | D-7 | F | F | R6090 | D-7 | C | R6259 | D-7 | F | F | R6091 | D-7 | C | R6260 | D-7 | F | F | R6092 | D-7 | C | R6261 | D-7 | F | F | R6093 | D-7 | C | R6262 | D-7 | F | F | R6094 | D-7 | C | R6263 | D-7 | F | F | R6095 | D-7 | C | R6264 | D-7 | F | F | R6096 | D-7 | C | R6265 | D-7 | F | F | R6097 | D-7 | C | R6266 | D-7 | F | F | R6098 | D-7 | C | R6267 | D-7 | F | F | R6099 | D-7 | C | R6268 | D-7 | F | F | R6100 | D-7 | C | R6269 | D-7 | F | F | R6101 | D-7 | C | R6270 | D-7 | F | F | R6102 | D-7 | C | R6271 | D-7 | F | F | R6103 | D-7 | C | R6272 | D-7 | F | F | R6104 | D-7 | C | R6273 | D-7 | F | F | R6105 | D-7 | C | R6274 | D-7 | F | F | R6106 | D-7 | C | R6275 | D-7 | F | F | R6107 | D-7 | C | R6276 | D-7 | F | F | R6108 | D-7 | C | R6277 | D-7 | F | F | R6109 | D-7 | C | R6278 | D-7 | F | F | R6110 | D-7 | C | R6279 | D-7 | F | F | R6111 | D-7 | C | R6280 | D-7 | F | F | R6112 | D-7 | C | R6281 | D-7 | F | F | R6113 | D-7 | C | R6282 | D-7 | F | F | R6114 | D-7 | C | R6283 | D-7 | F | F | R6115 | D-7 | C | R6284 | D-7 | F | F | R6116 | D-7 | C | R6285 | D-7 | F | F | R6117 | D-7 | C | R6286 | D-7 | F | F | R6118 | D-7 | C | R6287 | D-7 | F | F | R6119 | D-7 | C | R6288 | D-7 | F | F | R6120 | D-7 | C | R6289 | D-7 | F | F | R6121 | D-7 | C | R6290 | D-7 | F | F | R6122 | D-7 | C | R6291 | D-7 | F | F | R6123 | D-7 | C | R6292 | D-7 | F | F | R6124 | D-7 | C | R6293 | D-7 | F | F | R6125 | D-7 | C | R6294 | D-7 | F | F | R6126 | D-7 | C | R6295 | D-7 | F | F | R6127 | D-7 | C | R6296 | D-7 | F | F | R6128 | D-7 | C | R6297 | D-7 | F | F | R6129 | D-7 | C | R6298 | D-7 | F | F | R6130 | D-7 | C | R6299 | D-7 | F | F | R6131 | D-7 | C | R6300 | D-7 | F | F | R6132 | D-7 | C | R6301 | D-7 | F | F | R6133 | D-7 | C | R6302 | D-7 | F | F | R6134 | D-7 | C | R6303 | D-7 | F | F | R6135 | D-7 | C | R6304 | D-7 | F | F | R6136 | D-7 | C | R6305 | D-7 | F | F | R6137 | D-7 | C | R6306 | D-7 | F | F | R6138 | D-7 | C | R6307 | D-7 | F | F | R6139 | D-7 | C | R6308 | D-7 | F | F | R6140 | D-7 | C | R6309 | D-7 | F | F | R6141 | D-7 | C | R6310 | D-7 | F | F | R6142 | D-7 | C | R6311 | D-7 | F | F | R6143 | D-7 | C | R6312 | D-7 | F | F | R6144 | D-7 | C | R6313 | D-7 | F | F | R6145 | D-7 | C | R6314 | D-7 | F | F | R6146 | D-7 | C | R6315 | D-7 | F | F | R6147 | D-7 | C | R6316 | D-7 | F | F | R6148 | D-7 | C | R6317 | D-7 | F | F | R6149 | D-7 | C | R6318 | D-7 | F | F | R6150 | D-7 | C | R6319 | D-7 | F | F | R6151 | D-7 | C | R6320 | D-7 | F | F | R6152 | D-7 | C | R6321 | D-7 | F | F | R6153 | D-7 | C | R6322 | D-7 | F | F | R6154 | D-7 | C | R6323 | D-7 | F | F | R6155 | D-7 | C | R6324 | D-7 | F | F | R6156 | D-7 | C | R6325 | D-7 | F | F | R6157 | D-7 | C | R6326 | D-7 | F | F | R6158 | D-7 | C | R6327 | D-7 | F | F | R6159 | D-7 | C | R6328 | D-7 | F | F | R6160 | D-7 | C | R6329 | D-7 | F | F | R6161 | D-7 | C | R6330 | D-7 | F | F | R6162 | D-7 | C | R6331 | D-7 | F | F | R6163 | D-7 | C | R6332 | D-7 | F | F | R6164 | D-7 | C | R6333 | D-7 | F | F | R6165 | D-7 | C | R6334 | D-7 | F | F | R6166 | D-7 | C | R6335 | D-7 | F | F | R6167 | D-7 | C | R6336 | D-7 | F | F | R6168 | D-7 | C | R6337 | D-7 | F | F | R6169 | D-7 | C | R6338 | D-7 | F | F | R6170 | D-7 | C | R6339 | D-7 | F | F | R6171 | D-7 | C | R6340 | D-7 | F | F | R6172 | D-7 | C | R6341 | D-7 | F | F | R6173 | D-7 | C | R6342 | D-7 | F | F | R6174 | D-7 | C | R6343 | D-7 | F | F | R6175 | D-7 | C | R6344 | D-7 | F | F | R6176 | D-7 | C | R6345 | D-7 | F | F | R6177 | D-7 | C | R6346 | D-7 | F | F | R6178 | D-7 | C | R6347 | D-7 | F | F | R6179 | D-7 | C | R6348 | D-7 | F | F | R6180 | D-7 | C | R6349 | D-7 | F | F | R6181 | D-7 | C | R6350 | D-7 | F | F | R6182 | D-7 | C | R6351 | D-7 | F | F | R6183 | D-7 | C | R6352 | D-7 | F | F | R6184 | D-7 | C | R6353 | D-7 | F | F | R6185 | D-7 | C | R6354 | D-7 | F | F | R6186 | D-7 | C | R6355 | D-7 | F | F | R6187 | D-7 | C | R6356 | D-7 | F | F | R6188 | D-7 | C | R6357 | D-7 | F | F | R6189 | D-7 | C | R6358 | D-7 | F | F | R6190 | D-7 | C | R6359 | D-7 | F | F | R6191 | D-7 | C | R6360 | D-7 | F | F | R6192 | D-7 | C | R6361 | D-7 | F | F | R6193 | D-7 | C | R6362 | D-7 | F | F | R6194 | D-7 | C | R6363 | D-7 | F | F | R6195 | D-7 | C | R6364 | D-7 | F | F | R6196 | D-7 | C | R6365 | D-7 | F | F | R6197 | D-7 | C | R6366 | D-7 | F | F | R6198 | D-7 | C | R6367 | D-7 | F | F | R6199 | D-7 | C | R6368 | D-7 | F | F | R6200 | D-7 | C | R6369 | D-7 | F | F | R6201 | D-7 | C | R6370 | D-7 | F | F | R6202 | D-7 | C | R6371 | D-7 | F | F | R6203 | D-7 | C | R6372 | D-7 | F | F | R6204 | D-7 | C | R6373 | D-7 | F | F | R6205 | D-7 | C | R6374 | D-7 | F | F | R6206 | D-7 | C | R6375 | D-7 | F | F | R6207 | D-7 | C | R6376 | D-7 | F | F | R6208 | D-7 | C | R6377 | D-7 | F | F | R6209 | D-7 | C | R6378 | D-7 | F | F | R6210 | D-7 | C | R6379 | D-7 | F | F | R6211 | D-7 | C | R6380 | D-7 | F | F | R6212 | D-7 | C | R6381 | D-7 | F | F | R6213 | D-7 | C | R6382 | D-7 | F | F | R6214 | D-7 | C | R6383 | D-7 | F | F | R6215 | D-7 | C | R6384 | D-7 | F | F | R6216 | D-7 | C | R6385 | D-7 | F | F | R6217 | D-7 | C | R6386 | D-7 | F | F | R6218 | D-7 | C | R6387 | D-7 | F | F | R6219 | D-7 | C | R6388 | D-7 | F | F | R6220 | D-7 | C | R6389 | D-7 | F | F | R6221 | D-7 | C | R6390 | D-7 | F | F | R6222 | D-7 | C | R6391 | D-7 | F | F | R6223 | D-7 | C | R6392 | D-7 | F | F | R6224 | D-7 | C | R6393 | D-7 | F | F | R6225 | D-7 | C | R6394 | D-7 | F | F | R6226 | D-7 | C | R6395 | D-7 | F | F | R6227 | D-7 | C | R6396 | D-7 | F | F | R6228 | D-7 | C | R6397 | D-7 | F | F | R6229 | D-7 | C | R6398 | D-7 | F | F | R6230 | D-7 | C | R6399 | D-7 | F | F | R6231 | D-7 | C | R6400 | D-7 | F | F | R6232 | D-7 | C | R6401 | D-7 | F | F | R6233 | D-7 | C | R6402 | D-7 | F | F | R6234 | D-7 | C | R6403 | D-7 | F | F | R6235 | D-7 | C | R6404 | D-7 | F | F | R6236 | D-7 | C | R6405 | D-7 | F | F | R6237 | D-7 | C | R6406 | D-7 | F | F | R6238 | D-7 | C | R6407 | D-7 | F | F | R6239 | D-7 | C | R6408 | D-7 | F | F | R6240 | D-7 | C | R6409 | D-7 | F | F | R6241 | D-7 | C | R6410 | D-7 | F | F | R6242 | D-7 | C | R6411 | D-7 | F | F | R6243 | D-7 | C | R6412 | D-7 | F | F | R6244 | D-7 | C | R6413 | D-7 | F | F | R6245 | D-7 | C | R6414 | D-7 | F | F | R6246 | D-7 | C | R6415 | D-7 | F | F | R6247 | D-7 | C | R6416 | D-7 | F | F | R6248 | D-7 | C | R6417 | D-7 | F | F | R6249 | D-7 | C | R6418 | D-7 | F | F | R6250 | D-7 | C | R6419 | D-7 | F | F | R6251 | D-7 | C | R6420 | D-7 | F | F | R6252 | D-7 | C | R6421 | D-7 | F | F | R6253 | D-7 | C | R6422 | D-7 | F | F | R6254 | D-7 | C | R6423 | D-7 | F | F | R6255 | D-7 | C | R6424 | D-7 | F | F | R6256 | D-7 | C | R6425 | D-7 | F | F | R6257 | D-7 | C | R6426 | D-7 | F | F | R6258 | D-7 | C | R6427 | D-7 | F | F | R6259 | D-7 | C | R6428 | D-7 | F | F | R6260 | D-7 | C | R6429 | D-7 | F | F | R6261 | D-7 | C | R6430 | D-7 | F | F | R6262 | D-7 | C | R6431 | D-7 | F | F | R6263 | D-7 | C | R6432 | D-7 | F | F | R6264 | D-7 | C | R6433 | D-7 | F | F | R6265 | D-7 | C | R6434 | D-7 | F | F | R6266 | D-7 | C | R6435 | D-7 | F | F | R6267 | D-7 | C | R6436 | D-7 | F | F | R6268 | D-7 | C | R6437 | D-7 | F | F | R6269 | D-7 | C | R6438 | D-7 | F | F | R6270 | D-7 | C | R6439 | D-7 | F | F | R6271 | D-7 | C | R6440 | D-7 | F | F | R6272 | D-7 | C | R6441 | D-7 | F | F | R6273 | D-7 | C | R6442 | D-7 | F | F | R6274 | D-7 | C | R6443 | D-7 | F | F | R6275 | D-7 | C | R6444 | D-7 |

| Ref No. | IC6001 |     |     |     |     |     |     |     |     |     | IC6002 |     |     |     |     |     |     |     |     |     |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     |
| STOP    | 2.7    | 0.9 | 1.6 | 0   | 1.4 | 0   | 2.4 | 3.0 |     |     | 3.0    | 0.5 | 0.5 | 0   | 0.3 | 2.7 | 2.6 | 3.1 |     |     |
| PLAY    | 2.7    | 0.9 | 1.6 | 0   | 1.4 | 0   | 2.4 | 3.0 |     |     | 3.0    | 0.5 | 0.5 | 0   | 0.3 | 2.7 | 2.6 | 3.1 |     |     |
| FF      | 2.7    | 0.9 | 1.6 | 0   | 1.4 | 0   | 2.4 | 3.0 |     |     | 3.0    | 0.5 | 0.5 | 0   | 0.3 | 2.7 | 2.6 | 3.1 |     |     |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11     | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| STOP    | 2.9    | 2.9 | 2.9 | 2.9 | 0   | 0   | 2.9 | 0   | 0   | 0   | 0      | 2.9 | 2.4 | 2.9 | 2.9 | 2.9 | 2.9 | 0   | 2.9 | 2.9 |
| PLAY    | 2.9    | 2.9 | 2.9 | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 0   | 0      | 2.9 | 2.9 | 2.4 | 2.9 | 1.5 | 2.9 | 2.9 | 0   | 2.9 |
| FF      | 2.9    | 2.9 | 2.9 | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 0   | 0      | 2.9 | 2.9 | 1.3 | 2.9 | 1.5 | 2.9 | 2.9 | 0   | 2.9 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31     | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| STOP    | 0      | 0   | 1.1 | 0   | 0   | 0   | 2.9 | 2.9 | 3.0 | 2.9 | —      | —   | —   | —   | —   | —   | —   | 1.2 | 0   | 0.6 |
| PLAY    | 0      | 0   | 1.1 | 0   | 0   | 0   | 2.9 | 2.9 | 3.0 | 2.9 | —      | —   | —   | —   | —   | —   | —   | 0.3 | 0   | 0.1 |
| FF      | 0      | 0   | 1.1 | 0   | 0   | 0   | 2.9 | 2.9 | 3.0 | 2.9 | —      | —   | —   | —   | —   | —   | —   | 1.2 | 0   | 0.9 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51     | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| STOP    | 1.2    | 1.3 | 1.5 | 0.8 | 1.5 | 1.2 | 1.2 | 2.9 | 2.9 | 2.9 | —      | 2.9 | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 0   | 2.9 |
| PLAY    | 0.7    | 0.3 | 0.6 | 0.1 | 2.3 | 0.7 | 0.3 | 2.9 | 0   | 2.9 | —      | 2.9 | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 0   | 1.4 |
| FF      | 0.9    | 0.8 | 1.5 | 1.2 | 1.5 | 1.2 | 1.2 | 2.9 | 2.9 | 2.9 | —      | 2.9 | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 0   | 2.9 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 61     | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71     | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| STOP    | 0      | 1.4 | 1.5 | 2.9 | —   | 0   | 0   | 2.9 | 2.9 | 2.6 | 0      | 2.9 | 2.9 | 2.9 | 0   | 0   | 0   | 0   | —   | —   |
| PLAY    | 0      | 2.9 | 0   | 2.9 | —   | 2.9 | 2.9 | 2.9 | 0   | 2.9 | 0      | 0   | 0.7 | 0   | 0   | 0   | 0   | 0   | —   | —   |
| FF      | 0      | 1.4 | 1.5 | 2.9 | —   | 0   | 2.9 | 0   | 2.9 | 2.6 | 2.9    | 2.9 | 2.9 | 2.9 | 0   | 0   | 0   | 0   | —   | —   |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 81     | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91     | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| STOP    | 0      | 2.9 | 0   | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 1.6 | 1.0    | 2.9 | 1.5 | 2.9 | 1.7 | 1.5 | 0   | 0   | 0   | 1.7 |
| PLAY    | 0      | 2.9 | 0   | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 1.4 | 1.0    | 2.9 | 1.5 | 2.9 | 1.3 | 1.5 | 0   | 0   | 0   | 0.4 |
| FF      | 0      | 2.9 | 0   | 2.9 | 0   | 0   | 2.9 | 2.9 | 0   | 1.5 | 1.0    | 2.9 | 1.5 | 2.9 | 1.6 | 1.5 | 0.2 | 0   | 0   | 1.7 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 101    | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111    | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| STOP    | 1.7    | 2.1 | 2.9 | 2.9 | 2.9 | 2.9 | 0   | 2.7 | 0.1 | 2.9 | 0.1    | 0   | 2.9 | 0   | 2.8 | 2.6 | 2.9 | —   | 2.9 | 0   |
| PLAY    | 1.7    | 2.1 | 2.9 | 2.9 | 0   | 2.9 | 0   | 2.7 | 0   | 2.9 | 0.1    | 0   | 2.9 | 0   | 2.8 | 2.6 | 2.9 | —   | 2.9 | 0   |
| FF      | 1.7    | 2.1 | 2.9 | 2.9 | 2.9 | 2.9 | 0   | 2.7 | 0.1 | 2.9 | 0.1    | 0   | 2.9 | 0   | 2.8 | 2.6 | 2.9 | —   | 2.9 | 0   |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 121    | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131    | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| STOP    | 0      | 2.9 | 2.9 | 2.9 | 0   | 2.9 | 2.9 | 1.5 | 1.5 | —   | 0      | 0   | 0   | 0.2 | 2.9 | —   | 0   | 0   | 0   | 1.6 |
| PLAY    | 0      | 2.9 | 2.9 | 2.9 | 0   | 2.9 | 2.9 | 1.5 | 1.5 | —   | 0      | 0   | 0   | 0.2 | 2.9 | —   | 0   | 0   | 1.2 | 1.6 |
| FF      | 0      | 2.9 | 2.9 | 2.9 | 0   | 2.9 | 2.9 | 1.5 | 1.5 | —   | 0      | 0   | 0   | 0.2 | 2.9 | —   | 0   | 0   | 1.1 | 1.6 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 141    | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151    | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
| STOP    | 0      | 0   | 0   | 0   | 0   | 3.0 | 2.9 | 0   | 0.3 | 0.1 | 2.6    | 2.9 | 1.1 | 1.5 | 2.9 | —   | 2.9 | 0.1 | 2.9 | 0   |
| PLAY    | 0      | 0   | 2.9 | 0   | 0   | 3.0 | 2.9 | 0   | 0.3 | 0.1 | 2.6    | 1.5 | 1.1 | 1.5 | 2.9 | —   | 2.9 | 0.1 | 2.9 | 0   |
| FF      | 0      | 0   | 0   | 0   | 0   | 3.0 | 2.9 | 0   | 0.3 | 0.1 | 2.6    | 1.5 | 1.1 | 1.5 | 2.9 | —   | 2.9 | 0.1 | 2.9 | 0   |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 161    | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171    | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
| STOP    | 2.9    | 0   | 0   | 0   | 0   | 2.6 | 1.5 | 0   | 0   | 2.9 | 0      | 0   | 2.9 | —   | —   | —   | 0   | 2.9 | 2.9 | 2.9 |
| PLAY    | 2.9    | 0   | 0   | 0   | 0   | 2.6 | 1.5 | 0   | 0   | 2.9 | 0      | 0   | 2.9 | —   | —   | —   | 0   | 2.9 | 2.9 | 2.9 |
| FF      | 2.9    | 0   | 0   | 0   | 0   | 2.6 | 1.5 | 0   | 0   | 2.9 | 0      | 0   | 2.9 | —   | —   | —   | 0   | 2.9 | 2.9 | 2.9 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 181    | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191    | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
| STOP    | 2.9    | 0   | 0   | 2.9 | 0   | 0   | 2.9 | 2.9 | 2.9 | 2.9 | 2.9    | 2.6 | 0   | 0.6 | 2.9 | 1.5 | 2.9 | 0   | 2.9 | 0.7 |
| PLAY    | 2.9    | 0   | 0   | 2.9 | 0   | 0   | 2.9 | 2.9 | 2.9 | 2.9 | 2.9    | 2.6 | 0   | 0.6 | 2.9 | 0   | 2.9 | 0   | 2.9 | 0.7 |
| FF      | 2.9    | 0   | 0   | 2.9 | 0   | 0   | 2.9 | 2.9 | 2.9 | 2.9 | 2.9    | 2.6 | 0   | 0.6 | 2.9 | 2.9 | 2.9 | 0   | 2.9 | 0.7 |
| Ref No. | IC6003 |     |     |     |     |     |     |     |     |     |        |     |     |     |     |     |     |     |     |     |
| MODE    | 202    | 202 | 203 | 204 | 205 | 206 | 207 | 208 |     |     |        |     |     |     |     |     |     |     |     |     |
| STOP    | 2.9    | 0.7 | 2.9 | 2.6 | 2.9 | 2.8 | 2.6 | —   |     |     |        |     |     |     |     |     |     |     |     |     |
| PLAY    | 2.9    | 0.1 | 2.9 | 2.6 | 2.9 | 2.8 | 2.6 | —   |     |     |        |     |     |     |     |     |     |     |     |     |
| FF      | 2.9    | 0.7 | 2.9 | 2.6 | 2.9 | 2.8 | 2.6 | —   |     |     |        |     |     |     |     |     |     |     |     |     |
| Ref No. | IC6004 |     |     |     |     |     |     |     |     |     | IC6005 |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   |     |     |     |     |     |     |     | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     |
| STOP    | 0      | 3.7 | 7.6 |     |     |     |     |     |     |     | 0      | 7.1 | 4.8 | 0   | 0   | 2.9 | 0.3 | 0   |     |     |
| PLAY    | 0      | 3.7 | 7.6 |     |     |     |     |     |     |     | 0      | 7.1 | 4.8 | 0   | 0   | 2.9 | 0.3 | 0   |     |     |
| FF      | 0      | 3.7 | 7.6 |     |     |     |     |     |     |     | 0      | 7.1 | 4.8 | 0   | 0   | 2.9 | 0.3 | 0   |     |     |
| Ref No. | IC6006 |     |     |     |     |     |     |     |     |     | IC6007 |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     | 1      | 2   | 3   | 4   |     |     |     |     |     |     |
| STOP    | 1.4    | 0.6 | 0.7 | 0   | 2.6 | 0.3 | 4.6 | 4.8 |     |     | 3.0    | 2.6 | —   | 0   |     |     |     |     |     |     |
| PLAY    | 1.4    | 0.6 | 0.7 | 0   | 2.6 | 0.3 | 4.6 | 4.8 |     |     | 3.0    | 2.6 | —   | 0   |     |     |     |     |     |     |
| FF      | 1.4    | 0.6 | 0.7 | 0   | 2.6 | 0.3 | 4.6 | 4.8 |     |     | 3.0    | 2.6 | —   | 0   |     |     |     |     |     |     |
| Ref No. | IC6008 |     |     |     |     |     |     |     |     |     | IC6009 |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     | 1      | 2   | 3   | 4   |     |     |     |     |     |     |
| STOP    | 3.0    | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 0   | 0   |     |     | 3.0    | 3.0 | —   | 0   |     |     |     |     |     |     |
| PLAY    | 3.0    | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 0   | 0   |     |     | 3.0    | 3.0 | —   | 0   |     |     |     |     |     |     |
| FF      | 3.0    | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 0   | 0   |     |     | 3.0    | 3.0 | —   | 0   |     |     |     |     |     |     |
| Ref No. | IC6010 |     |     |     |     |     |     |     |     |     | IC6011 |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   |     |     |     |     |     |     |     | 1      | 2   | 3   |     |     |     |     |     |     |     |
| STOP    | 0      | 4.5 | 2.6 |     |     |     |     |     |     |     | 0      | 3.0 | 4.5 |     |     |     |     |     |     |     |
| PLAY    | 0      | 4.5 | 2.6 |     |     |     |     |     |     |     | 0      | 3.0 | 4.5 |     |     |     |     |     |     |     |
| FF      | 0      | 4.5 | 2.6 |     |     |     |     |     |     |     | 0      | 3.0 | 4.5 |     |     |     |     |     |     |     |

[illegible]

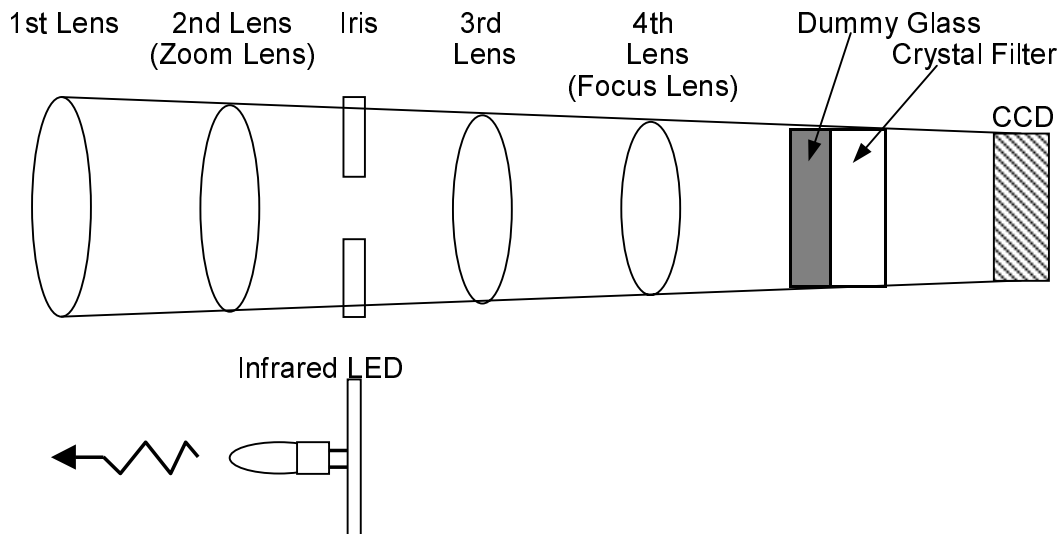
## Normal Mode



If the CCD image sensor receives the infrared ray, it is not possible to correctly adjust the White Balance.

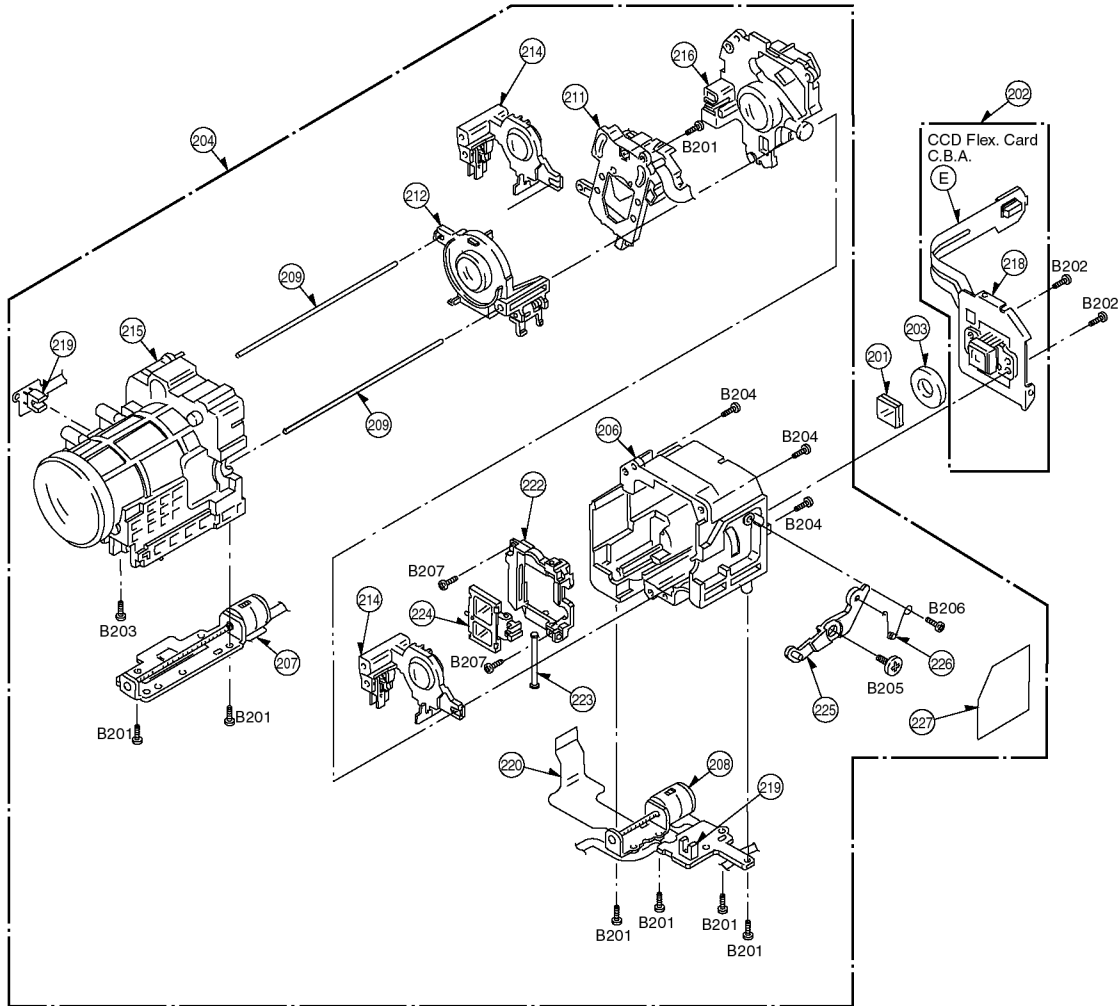
So, the IR(infrared) cut filter is usually set between the lens and CCD.

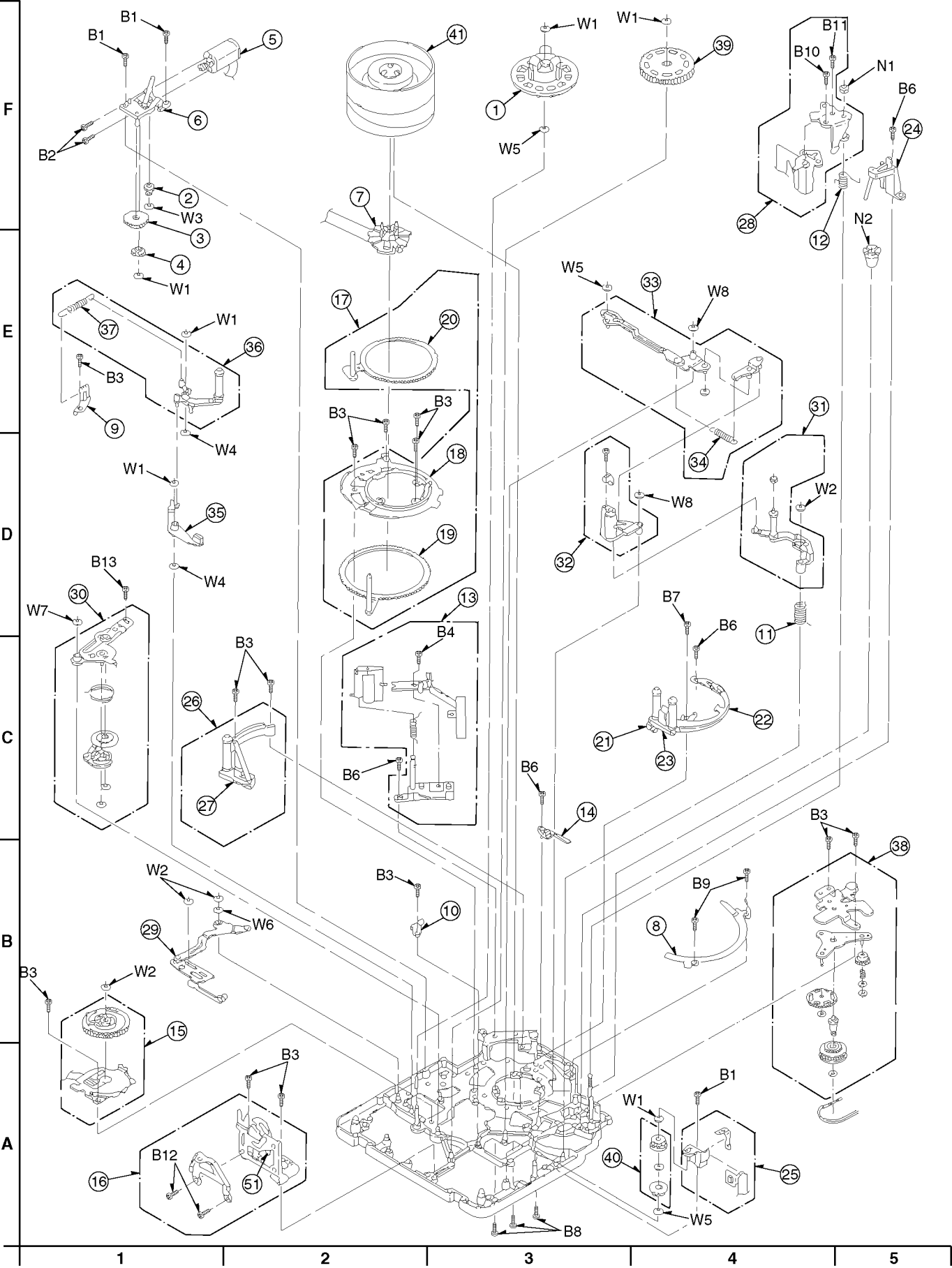
## 0 Lux Mode



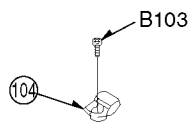
The refractive index of light and focal length are changed if taking off the IR cut filter.

Therefore, when the 0 Lux Night View mode, the Dummy Glass is substituted for IR cut filter in lens unit.

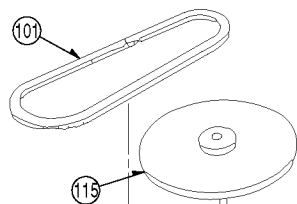




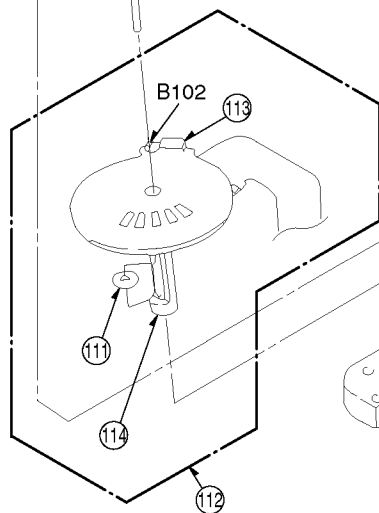
E



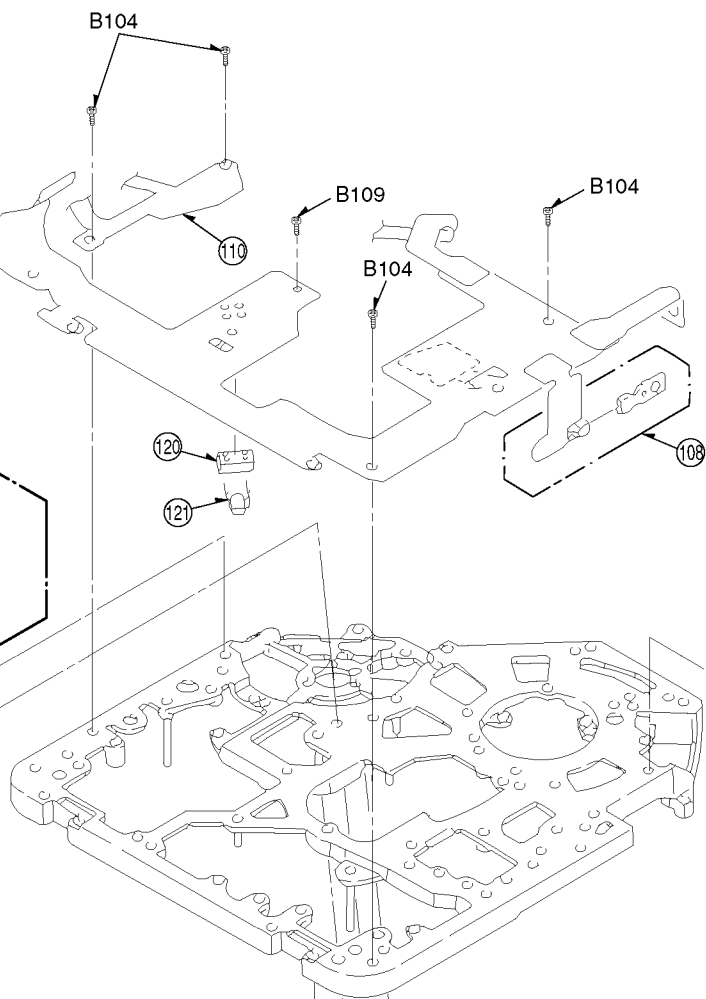
D



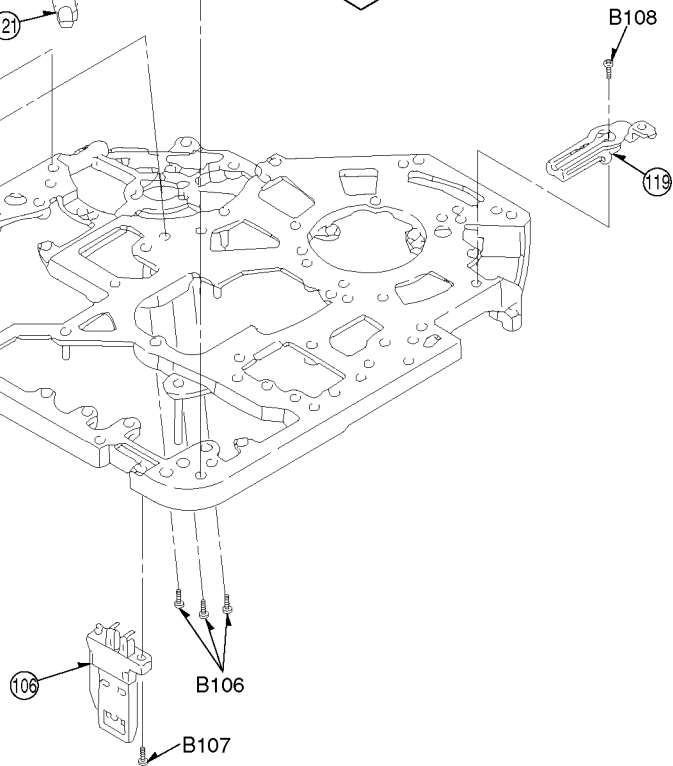
C



B



A



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2

3

4

5

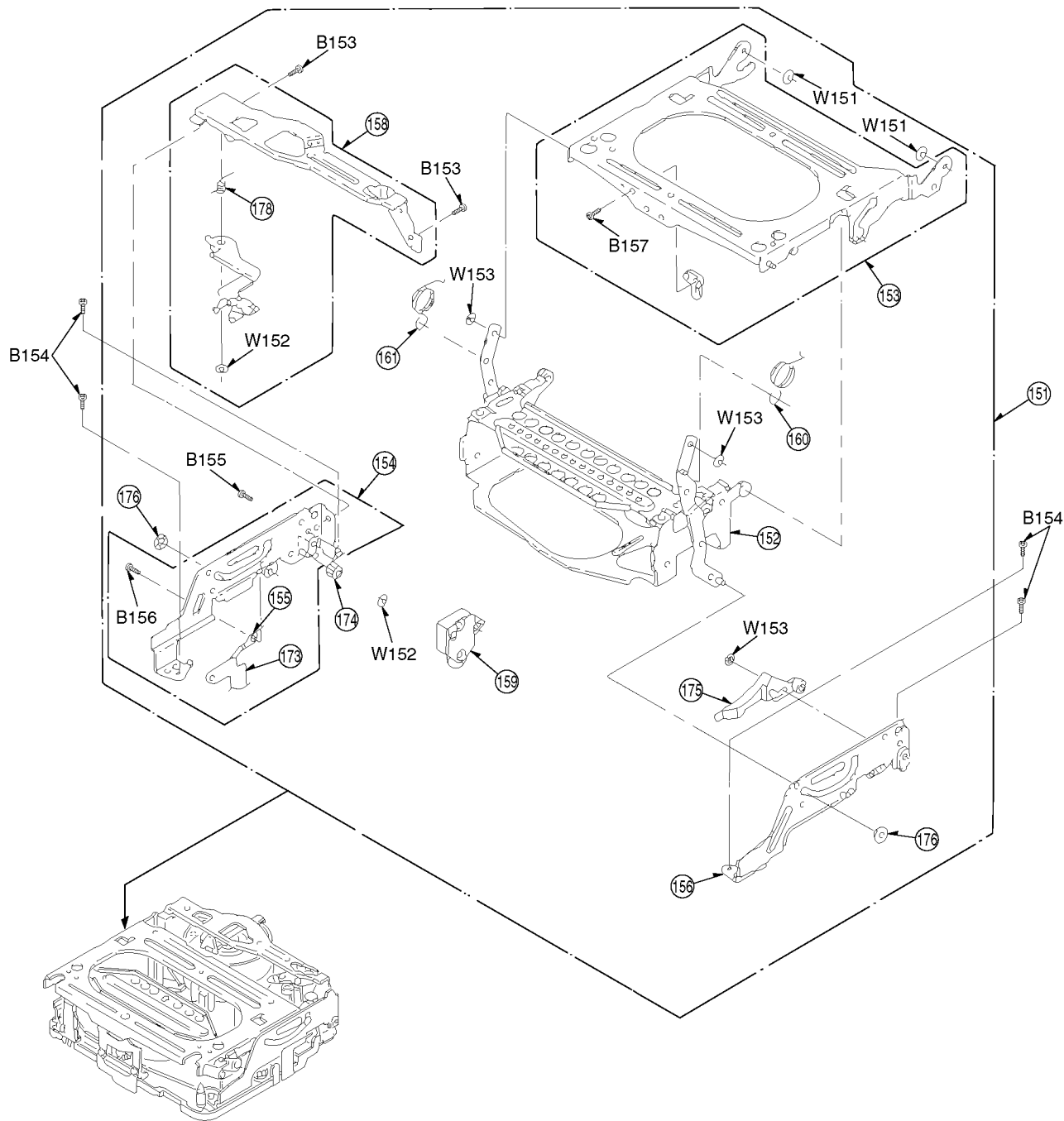
E

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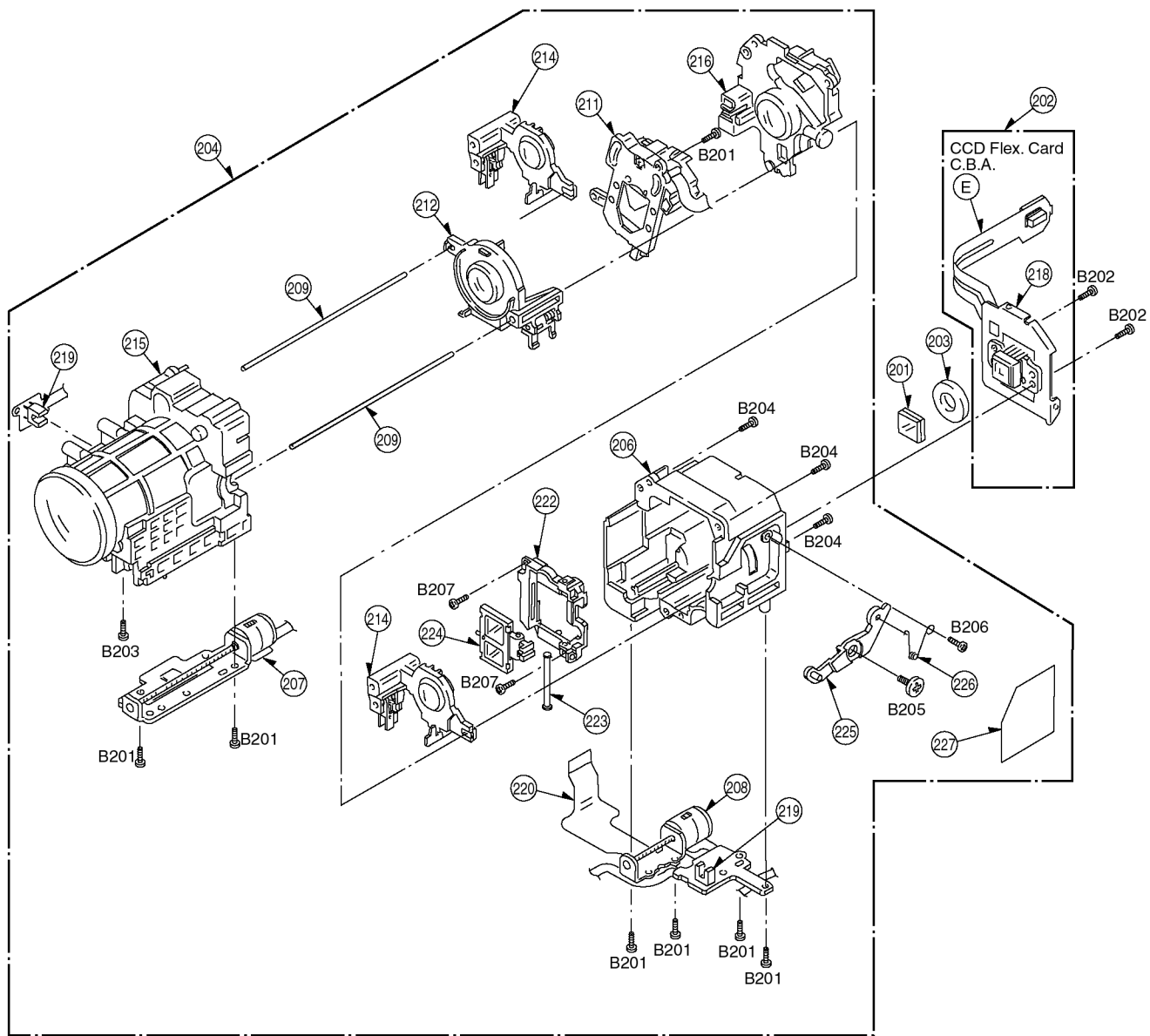
E

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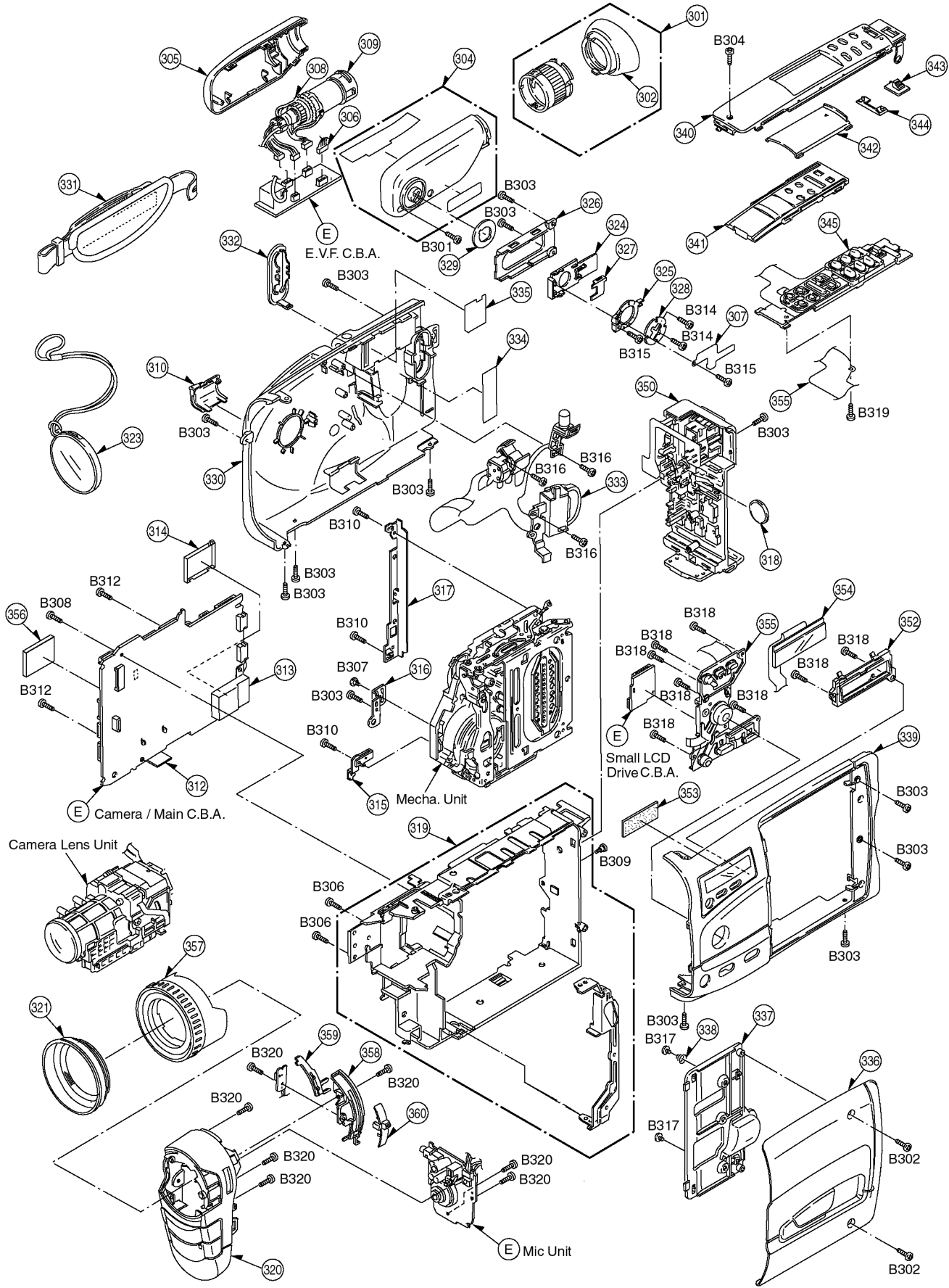
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