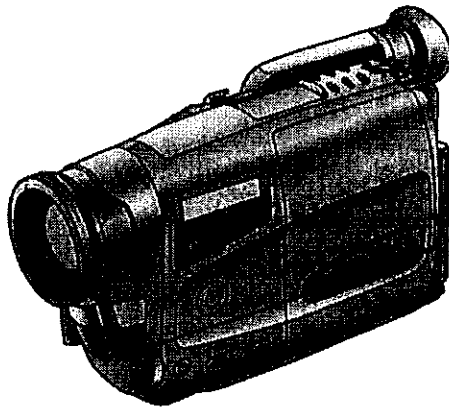


Service Manual

VHS-C Movie

Panasonic **VHS-C**
HQ



NV-RX14B
NV-RX17EG/EN/E
NV-RX18EG/B/EN
DL-MECHANISM



SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption; 4.7 W (Battery operation)	VIDEO	HEADS: 4 Rotary heads, 1 flying erase head
			OUTPUT: PHONO CONNECTOR; 1.0 Vp-p 75 Ω 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; -6 dB, 47k Ω loaded/less than 1 k Ω
TAPE SPEED	SP mode : 23.3 mm/s LP mode : 11.7 mm/s (Except NV-RX17EG/E, RX18EG) Record/Playback Time: SP mode : 45 min. with NV-EC45XG LP mode : 90 min. with NV-EC45XG (Except NV-RX17EG/E, RX18EG) FF/REW Time: less than 6.5 min. with NV-EC45XG	OPERATING TEMPERATURE	0-40 °C
		OPERATING HUMIDITY	10-80 %
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)	WEIGHT	Approx. 725 g (without Battery Pack)
	STANDARD ILLUMINATION: 1,400 lux	DIMENSIONS	90 (W) X 127 (H) X 255 (D) mm
	MINIMUM REQUIRED ILLUMINATION: 0.5 Lux (Low Light Mode)	STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor (Except NV-RX14B, NV-RX18B)
	LENS: 22 : 1 Wide-angle Power Zoom Lens with Digital AI Auto Focus, Auto Iris, F1.6 (3.7-81.4 mm), Filter Diameter 43 mm		1 pc. Shoulder Strap 1 pc. DC Output Cable 1 pc. Battery (Except NV-RX14B, NV-RX18B)
	IMAGE SENSOR: 1/4 inch CCD Image Sensor		1 pc. AC Cord 1 pc. AV Cord
	VIEWFINDER: 0.5 inch Electric View Finder		1 pc. Remote CTL 1 pc. Remote CTL Holder
			1 pc. Battery Cover 1 pc. Button Battery

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

Panasonic

© 1998 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

	Page		Page
1 INTRODUCTION	3	9.2. CAMERA SCHEMATIC DIAGRAM	34
1.1. INTRODUCTION1	3	9.3. VIDEO & AUDIO SCHEMATIC DIAGRAM	36
1.2. INTRODUCTION2	3	9.4. LENS DRIVE SCHEMATIC DIAGRAM	38
2 SERVICE CAUTION	4	9.5. SUB SERVO SCHEMATIC DIAGRAM	39
2.1. EEPROM DATA FOR SPARE PARTS OF THE CAMERA/MAIN C.B.A.	4	9.6. POWER SCHEMATIC DIAGRAM	40
2.2. SERVICE EXTENSION CABLES.	4	9.7. E.V.F. SCHEMATIC DIAGRAM	41
2.3. SERVICE POSITION OF CAMERA/MAIN C.B.A.	6	9.8. SMALL LCD DRIVE & CAMERA OP.U. SCHEMATIC DIAGRAM	41
2.4. SET-UP FOR ADJUSTMENT OF TATSUJIN.	7	9.9. MIC UNIT SCHEMATIC DIAGRAM	42
2.5. THE BUILT-IN LITHIUM BATTERY	7	9.10. CCD FLEX. CARD SCHEMATIC DIAGRAM	42
2.6. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)	8	10 CIRCUIT BOARD ASSEMBLIES	43
3 SERVICE INFORMATION	9	10.1. CAMERA/MAIN C.B.A. ADDRESS INFORMATION ----	43
3.1. SERVICE INFORMATION DISPLAY (GENERAL DESCRIPTION)	9	10.2. CAMERA/MAIN [COMPONENT SIDE] C.B.A. (VEP23474A)	44
3.2. ERROR CODE DISPLAY	9	10.3. CAMERA/MAIN [FOIL SIDE] C.B.A. (VEP23474A)	45
3.3. SERVICE MODE 3	10	10.4. SMALL LCD DRIVE C.B.A. (VEP00Z89A)	46
4 GENERAL DESCRIPTIONS	11	10.5. MIC UNIT (VEK8577:NV-RX14, NV-RX17)(VEK8578:NV- RX18)	46
5 ADJUSTMENT PROCEDURES	16	10.6. CCD FLEX. CARD C.B.A.(VEP22276B)	46
5.1. DISASSEMBLY PROCEDURES	16	10.7. E.V.F. C.B.A.(VEP28259A)	46
5.2. ELECTRICAL ADJUSTMENT PROCEDURE FOR EVF SECTION	19	11 EXPLODED VIEWS & PARTS LIST	47
5.3. ISASSEMBLY PROCEDURES OF LENS UNIT	21	11.1. VTR MECHANISM SECTION (1)	47
6 ABBREVIATIONS	22	11.2. VTR MECHANISM SECTION (1) PARTS LIST	48
7 WAVE FORM TABLE	24	11.3. VTR MECHANISM SECTION (2)	49
8 BLOCK DIAGRAMS	25	11.4. VTR MECHANISM SECTION (2) PARTS LIST	49
8.1. VIDEO BLOCK DIAGRAM	25	11.5. VTR MECHANISM SECTION (3)	50
8.2. CAMERA BLOCK DIAGRAM	26	11.6. VTR MECHANISM SECTION (3) PARTS LIST	50
8.3. SYSTEM CONTROL & SERVO/POWER BLOCK DIAGRAM	28	11.7. CAMERA LENS SECTION	51
8.4. SYSTEM CONTROL & SERVO DC VOLTAGE CHART(SP MODE)	30	11.8. CAMERA LENS SECTION PARTS LIST	51
9 SCHEMATIC DIAGRAM	31	11.9. FRAME & CASING SECTION	52
9.1. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM	31	11.10. FRAME & CASING SECTION PARTS LIST	53
		11.11. PACKING PARTS & ACCESSORIES SECTION	54
		11.12. PACKING PARTS & ACCESSORIES SECTION PARTS LIST	55
		12 ELECTRICAL REPLACEMENT PARTS LIST	56

1 INTRODUCTION

1.1. INTRODUCTION1

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

Note 1:

Adjustment procedure for Mechanism-Chassis is separate volume.

Please refer to following manual for detail of adjustment procedure for Mechanism-Chassis.

Order number for adjustment procedure of Mechanism-Chassis : VMD9412M130

Note 2:

These movie camera uses AC Adaptor is VSK0541.

VSK0541: Used by NV-RX14B, NV-RX17EG/EN/ENH/E and NV-RX18EG/B/EN

The Service manual for AC Adaptor is separate volume.

Order number for AC Adaptor-----VSK0541 (VW-AS7) : VMD9812066C8

1.2. INTRODUCTION2

Note 1:

NV-RX17EN

NV-RX17EN series has to versions depends on countries.

Detail as follows.

Model-No. (Version)	NV-RX17EN	NV-RX17ENH
PACKING CASE	VPG9752	VPG9753
AC CABLE	VJA0664	VJA0940

2 SERVICE CAUTION

2.1. EEPROM DATA FOR SPARE PARTS OF THE CAMERA/MAIN C.B.A.

- When the Camera/Main C.B.A. is replaced, the fixed and average data must be changed by Tatsujin kit according to the Movie Camera's suffix.
- Then, confirm and/or adjust the VTR and Camera adjustment one by one.

2.2. SERVICE EXTENSION CABLES.

- This model is required the following extension cables for all connections.
- And for more convenient service, prepare the S/S Zoom SW U. (VXU1487), the Camera OP. U. (VXU1521) and the CAM/VTR OP. U. (VXU1519) through a spare parts route.

2.2.1. In case of Flat cables.

- Use the following extension cables when checking or adjusting individual circuit boards.

Ref.	Part No.	Pin	Part name	Connection	Q'ty	Remarks
(a)	VFK0670	18	Flat Cable	FP6001-Mecha. Chassis	1	
(b)	VFK0670	18	Flat Cable	FP2002-Capstan Motor	1	
(c)	VFK0978	6	Flat Cable	PP6002-Mecha. Chassis	1	
(d)	VFK0929	12	Flat Cable	PP301-CCD	1	
(e)	VFK0980	9	Flat Cable	FP4001-A/C Head	1	
(f)	VFK0913	18	Flat Cable	FP701-Lens Unit	1	
(g)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	Included in Tatsujin-Kit
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

How to use extension cables.

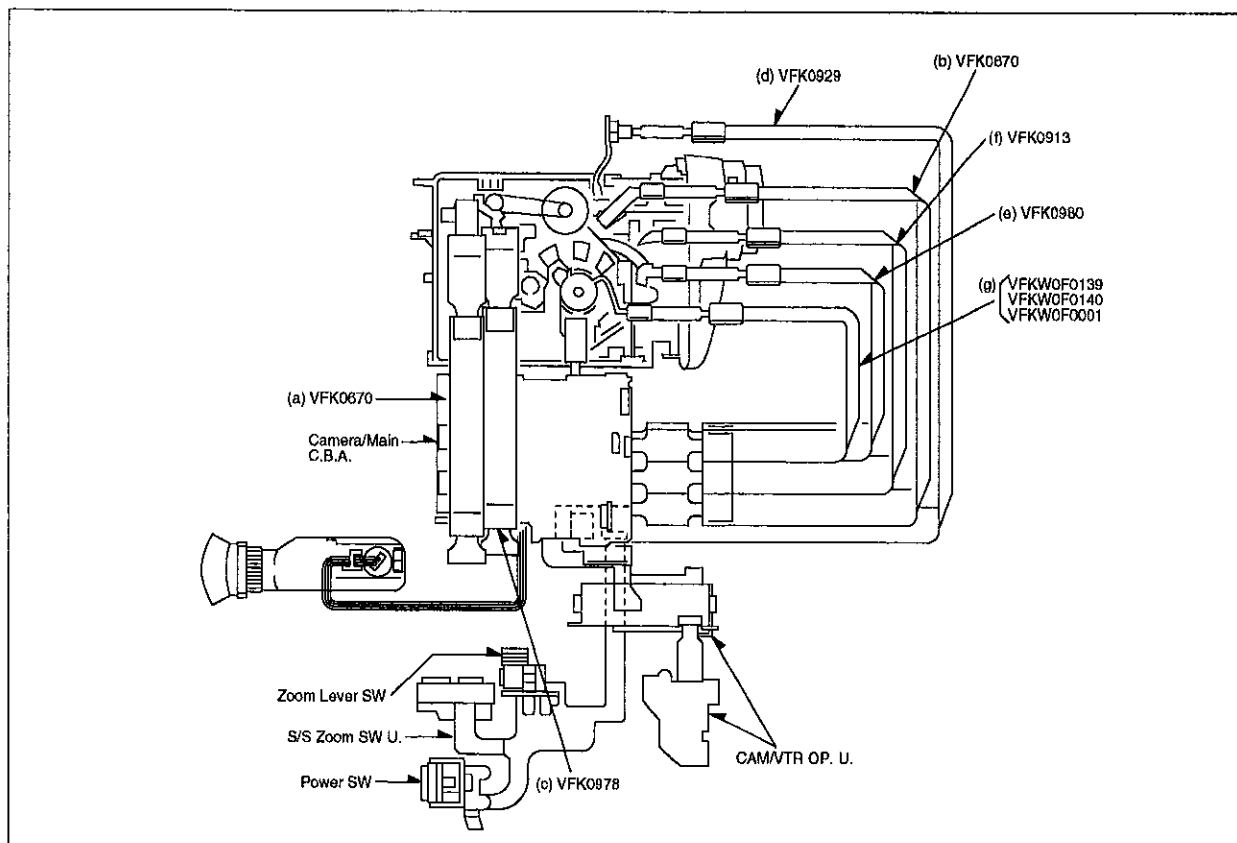


Fig. T1

2.2.2. In case of Tatsujin Cable.

Use the following extension cables when checking or adjusting individual circuit boards.

Ref.	Part No.	Pin	Part name	Connection	Q'ty	Remarks
(a)	VFKW0F0033	18	Attachment Connector	FP6001-Mecha. Chassis	1	
	VFKW0F0056/0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(b)	VFKW0F0033	18	Attachment Connector	FP2002-Capstan Motor	1	
	VFKW0F0056/0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(c)	VFKW0F0128	6	Attachment Connector	FP6002-Mecha. Chassis	1	
	VFKW0F0127	6	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(d)	VFKW0F0118	12	Attachment Connector	PP301-CCD	1	
	VFKW0F0117	12	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(e)	VFKW0F0132	9	Attachment Connector	FP4001-A/C Head	1	
	VFKW0F0131	9	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(f)	VFKW0F0111	18	Attachment Connector	FP701-Lens Unit	1	
	VFKW0F0112	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(g)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

How to use extension cables.

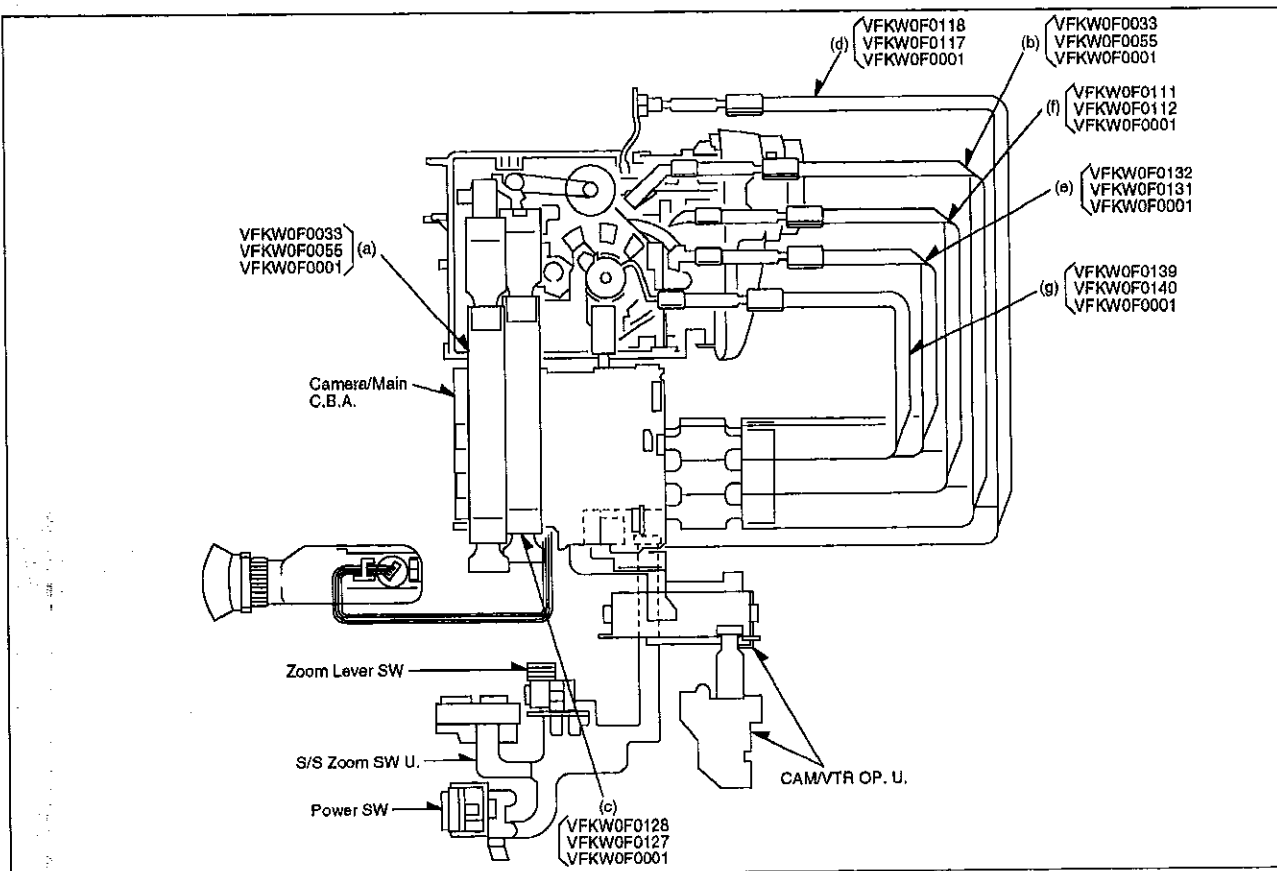


Fig. T2

2.2.3. Service Position for Movement of Mechanism.

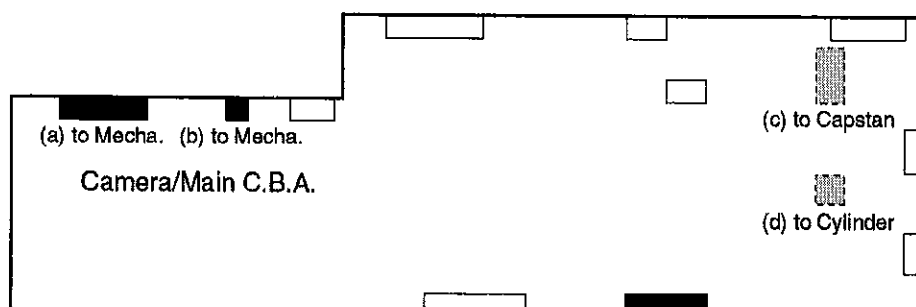
· Use the following extension cables when checking the Mechanism.

Ref.	Part No.	Pin	Part name	Connection	Q'ty	Remarks
(a)	VFK0670	18	Flat Cable	FP6001-Mecha. Chassis	1	
(b)	VFK0978	6	Flat Cable	FP6002-Mecha. Chassis	1	
(c)	VFK0670	18	Flat Cable	FP2002-Capstan Motor	1	
(d)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	Included in Tatsujin-Kit
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

In case of Tatsujin Cable.

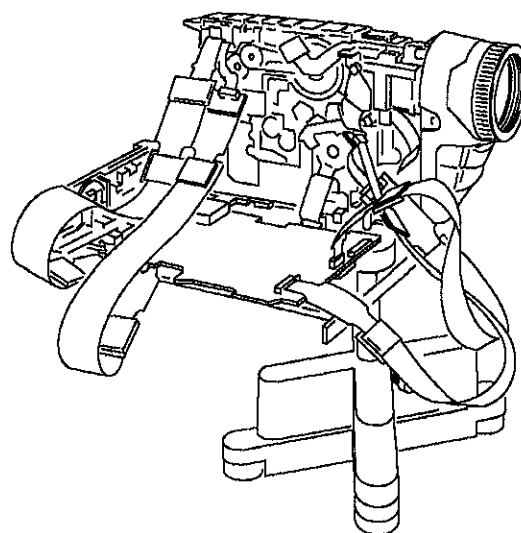
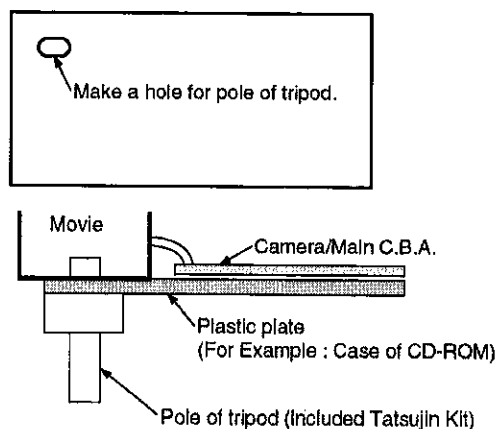
Ref.	Part No.	Pin	Part name	Connection	Q'ty	Remarks
(a)	VFKW0F0033	18	Attachment Connector	FP6001-Mecha. Chassis	1	Included in Tatsujin-Kit
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(b)	VFKW0F0128	6	Attachment Connector	FP6002-Mecha. Chassis	1	
	VFKW0F0127	6	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(c)	VFKW0F0033	18	Attachment Connector	FP2002-Capstan Motor	1	
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(d)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

2.2.4. Service position for Movement of Mechanism.



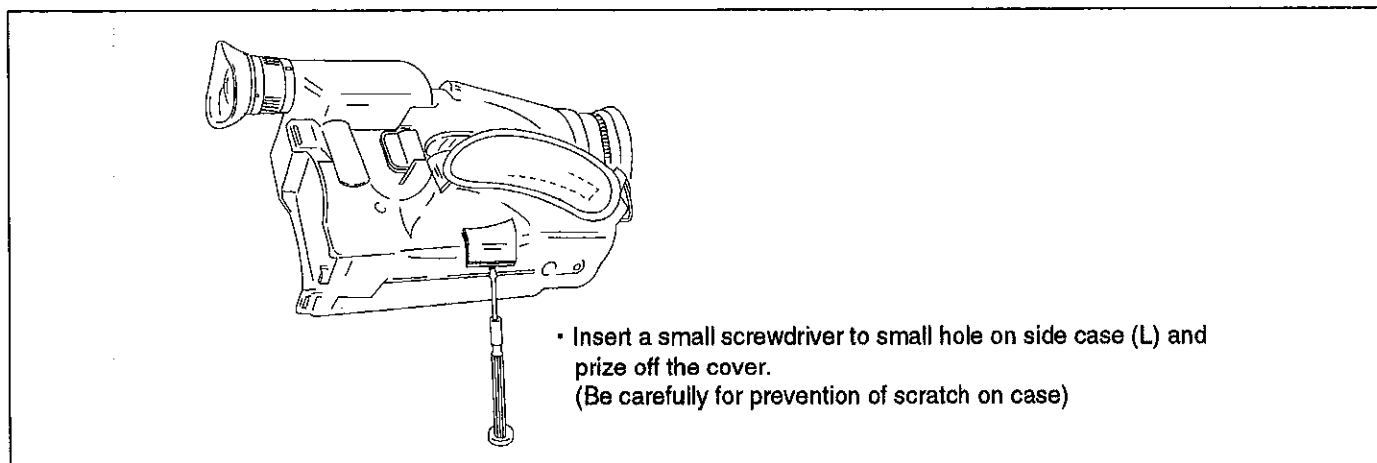
2.3. SERVICE POSITION OF CAMERA/MAIN C.B.A.

· Please prepare the following plastic plate to hold C.B.A. during checking it.

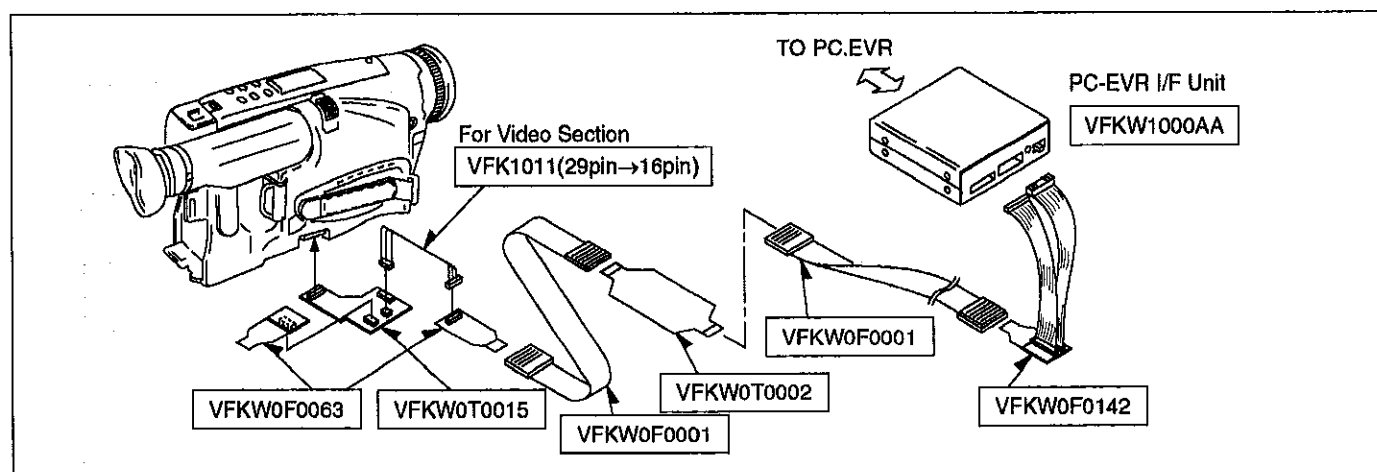


2.4. SET-UP FOR ADJUSTMENT OF TATSUJIN.

- For adjustments with Tatsujin, it is not necessary to open the side case.
- Just open the small cover on the side case (L) by a small screwdriver.



- And insert the Extension Board and connect Tatsujin cable as follows



2.5. THE BUILT-IN LITHIUM BATTERY

2.5.1. 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 in the Finder flashes when you turn on the Movie Camera. In this case, perform the following operations.

Indication in the Finder flash



2.5.2. Charging the Built-in Lithium Battery and Other Required Operations

1. Connect the AC Adaptor to the mains 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 1 month, charging for 26 hours (full charge) maintains it for approximately 1 year.
4. Set the clock to the current date and time.

2.6. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1. Remove the Rear Case Unit.

(Remove the 1 Screw from Rear Case Unit)

2. Remove the Lithium Battery "ML2020" and then replace the new one. (See Fig. B1)

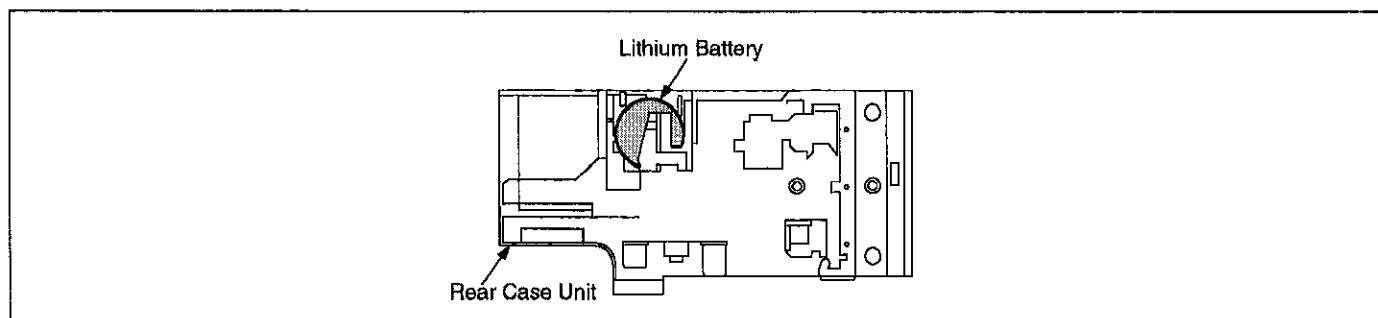


Fig. B1

Note:

The lithium battery is a critical component (Type No.: ML2020 Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer.

Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

3 SERVICE INFORMATION

3.1. SERVICE INFORMATION DISPLAY (GENERAL DESCRIPTION)

- This Movie Camera has SERVICE INFORMATION DISPLAY function which facilitates quick trouble-shooting.
- You can turn on the Service Information Display, by performing the following procedures.
- This causes the Service Information to be displayed on the EVF. (There are 4 kinds of SERVICE MODE, as shown below.) In the OSD Line Output Mode, service Information can also be viewed on the TV.

MODE NAME	FUNCTION	How to turn it ON. (Push following keys simultaneously for at least 2 sec.)		
OSD Line Output MODE	• Checking the EVF information on the TV monitor.	DATE/TIME SET (TOP PANEL)	RESET (TOP PANEL)	DATE/TITLE (TOP PANEL)

MODE NAME	FUNCTION	How to turn it ON. (Push following keys simultaneously for at least 2 sec.)		
SERVICE MODE 1	• Remaining Battery A/D Value • Safety Device • Capstan/Cylinder Injections	DATE/TIME SHIFT (TOP PANEL)	RESET (TOP PANEL)	DATE/TITLE (TOP PANEL)

MODE NAME	FUNCTION	How to turn it ON. (After choosing SERVICE MODE 1, Push [DATE/TITLE] key. (TOP PANEL)		
SERVICE MODE 2	• Reference Voltage A/D Value • Mechanism position • Serial key code	DATE/TITLE		

MODE NAME	FUNCTION	How to turn it ON. (After choosing SERVICE MODE 2, Push [DATE/TITLE] key. (TOP PANEL)		
SERVICE MODE 3	• ERROR CODE Display	DATE/TITLE		

MODE NAME	FUNCTION	How to turn it ON. (After choosing SERVICE MODE 3, Push [DATE/TITLE] key. (TOP PANEL)		
SERVICE MODE 4	• PG SHIFTER ADJUSTMENT	DATE/TITLE		

3.2. ERROR CODE DISPLAY

When undesirable conditions occur, the "ERROR CODE" will automatically be displayed on the EVF, Also the CAMERA LED will flash for a short time, then the power will be turned off.

By turning on Service Mode 3, you can check to see what kind of undesirable condition occurred, even after the ERROR CODE has disappeared. (To perform the Service Mode 3, do not disconnect the AC adaptor or battery pack, after undesirable condition occurred.)

To clear the ERROR CODE, disconnect the AC Main Lead or the battery has been disconnected.

This movie camera has the built in Rechargeable Lithium Battery.

It maintain the operation of the built-in clock and error code for the Service Mode when the Movie camera turn off.

To clear the error code, make shoot the IC6003 pin 57 to GND for reset the IC6003.

Indication for built in clock return to initial condition make reset the IC6003.

NOTE1:

Contents of all Service Mode (Service Mode 1-Service Mode 4) same as previous models.

So we will issue Technical Information for Service Mode.

Order Number for this document is as follows.

Order Number for Technical Information : **VMD9512M138**

NOTE2:

Contents of all Service Mode (Service Mode 1- Service Mode 4) same as previous models.

We will issue Technical information for Service Mode.

But Service Mode 3 is Error code Display. It is important for Service.

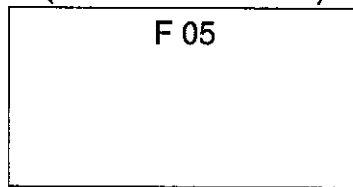
So this service manual contain for this information.

3.3. SERVICE MODE 3

- After undesirable conditions occurred, you can see what kind of error occurred by turning on the Service Mode 3.
- When you turn on the service mode 3, the error code is displayed on EVF.
- Also the Camera LED is flashed according to Error code.

Display:
(Example)

(SERVICE MODE 3)



F 05

* Detected the Cylinder lock

Display position:
(See Fig. 1)

0 : 0 0 0 0

(The position of linear time counter)

Blank (No display)

01~05, 10~11, 51, 52

F or U

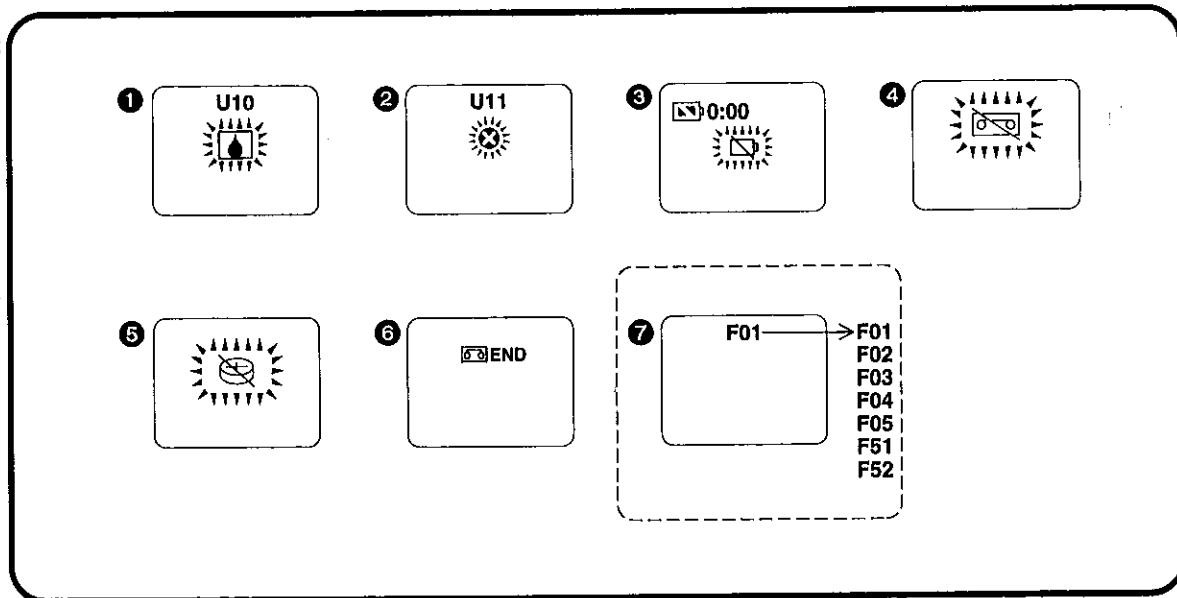
Display	Condition	The Power off timing
F01	T-REEL LOCK	After 1 minute (flashing the LED)
F02	S-REEL LOCK	
F03	UNLOADING LOCK	
F04	LOADING LOCK	
F05	CYLINDER LOCK	
F51	FOCUS MOTOR LOCK	
F52	ZOOM MOTOR LOCK	
U10	DEW DETECTION	After 18 minutes (flashing the LED)
U20	HEAD CLOGGING	Not turning off

Fig. 1 (Error Code)

Lock Condition	Power LED Flashing Timing
T-REEL LOCK (F01)	2.56 sec
S-REEL LOCK (F02)	0.16 sec
UNLOADING LOCK (F03)	
LOADING LOCK (F04)	
CYLINDER LOCK (F05)	
OTHERS (U10&U11)	Power LED is flashed at 1 Hz timing

Fig. J (LED Flashing Timing)

4 GENERAL DESCRIPTIONS



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 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

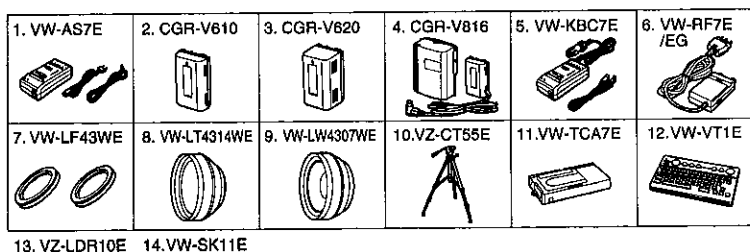
F03: Locked Unloading Mechanism

F04: Locked Loading Mechanism

F05: Locked Cylinder

F51: Locked Focus Motor

F52: Locked Zoom Motor



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. Filter Kit
8. Tele Conversion Lens
9. Wide Conversion Lens
10. Tripod
11. Cassette Adaptor
12. Video Titrer
13. IR/Video DC Light (Halogen & Infra-red)
(It requires the Shoe Adaptor for attaching to the Movie Camera. With this Movie Camera, its infra-red beam emission function has no effect.)
14. Shoe Adaptor (for attaching the IR/Video DC Light)

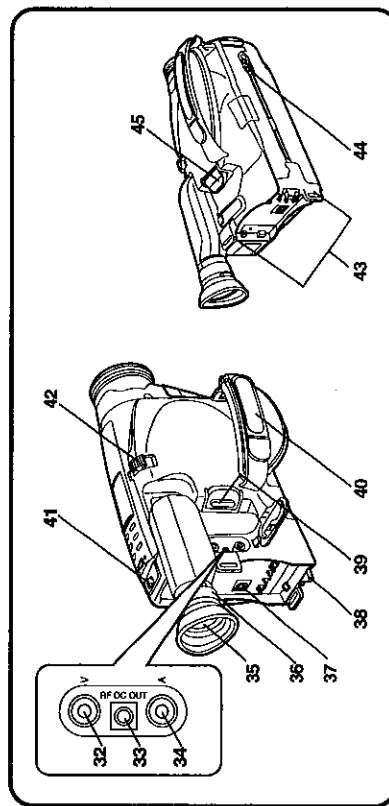
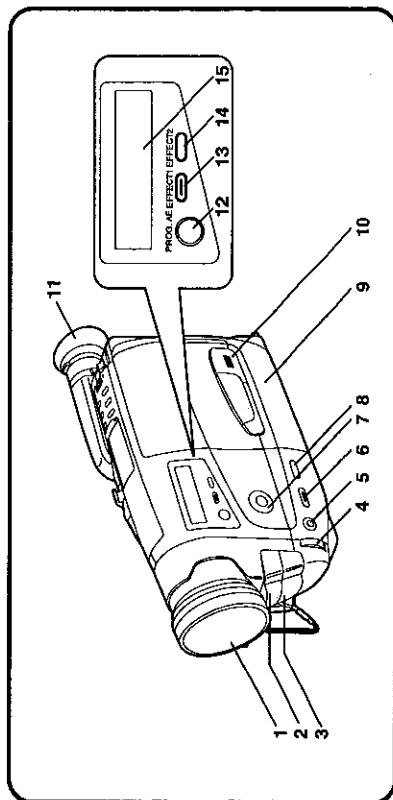
Some accessories are not available in some countries.

- 26 Date/Time Set Button [DATE/TIME/SET]
- 27 Tracking Button [TRACKING ▶]
- 28 Tape Counter Reset Button [RESET]
- 29 Stop Button [STOP]
- 30 Item Set Button [SET]
- 31 Fast Forward Search Button [SEARCH+]
- 32 Fast Forward/Cue Button [▶▶]
- 33 Colour Selector Button for Digital Image [COLOUR]
- 34 Digital Image Superimpose Button [OFF/ON]

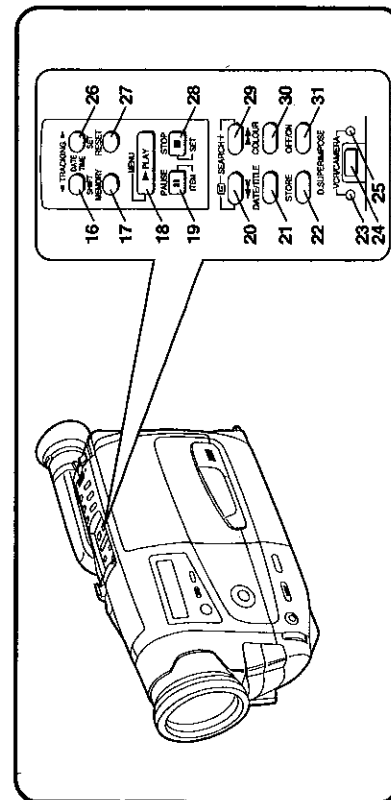
- 16 Date/Time Shift Button [DATE/TIME/SHIFT]
- 17 Tracking Button [◀ TRACKING]
- 18 Memory Button [MEMORY]
- 19 Playback Button [PLAY]
- 20 Menu Button [MENU]
- 21 Pause Button [PAUSE]
- 22 Item Selector Button [ITEM]
- 23 Reverse Search Button [← SEARCH]
- 24 Rewind/Review Button [◀◀]
- 25 Recording Check Button [RECORD]
- 26 Date/Time/Title Button [DATE/TITLE]
- 27 Digital Image Store Button [STORE]
- 28 VCR (Playback) Mode Lamp [VCR]
- 29 VCR/Camera Mode Selector Button [VCR/CAMERA]
- 30 Camera (Recording) Mode Lamp [CAMERA]

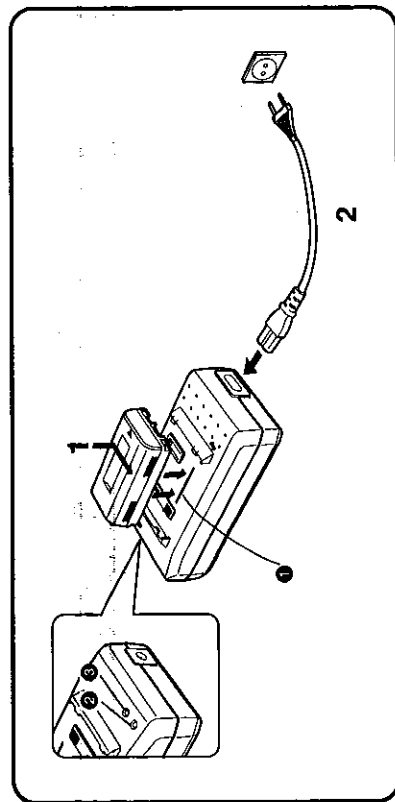
Controls and Components

- 1 Lens Cap
- 2 White Balance Sensor
- 3 Microphone
- 4 Focus Dial
- 5 Focus Button [FOCUS]
- 6 Fade Button [FADE]
- 7 Backlight Button [BACKLIGHT]
- 8 White Balance Button [W.B.]
- 9 Cassette Compartment
- 10 Cassettes Compartment Lock Button [LOCK]
- 11 Eyecup
- 12 Auto Exposure Selector Button [PROG. AE]
- 13 Digital Effect 1 Button [EFFECT1]
- 14 Digital Effect 2 Button [EFFECT2]
- 15 Multi Info Window



- 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]
- 39 Recording Start/Stop Button
- 40 Grip Belt
- 41 Cassette Eject Lever [▶ EJECT]
- 42 Zoom Lever [W • T]
- 43 Shoulder Strap Holders
- 44 Tripod Receptacle
- 45 Power Switch [POWER]





Charging the Battery

- 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.

Charging Lamp [CHARGE]

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

Off:

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.

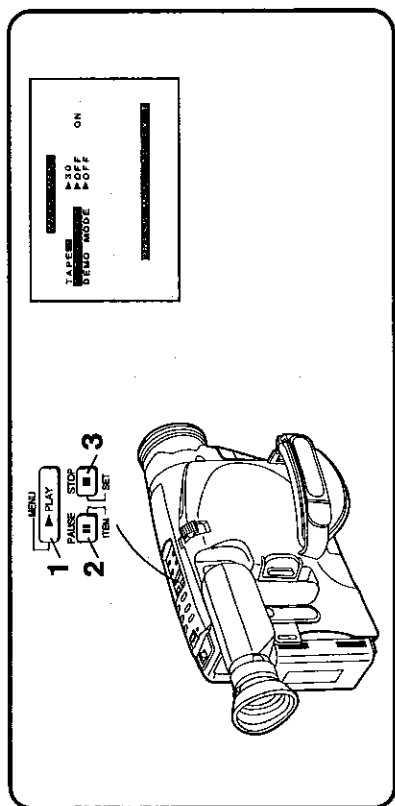
(The times shown in the above charts are approximations.)

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.

Charging Time and Maximum Continuous Mode

Battery Model No.	Charging Time for a Full Charge	Max. Continuous Recording Time
CGR-V610 (supplied)	80 min.	120 min.
CGR-V620	145 min.	240 min.
CGR-V616	310 min.	480 min.

Battery Model No.	Approx. 30-Minute Charge	Max. Continuous Recording Time
CGR-V610 (supplied)	30 min.	50 min.
CGR-V620		
CGR-V616		



Using the Menu Screen

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.

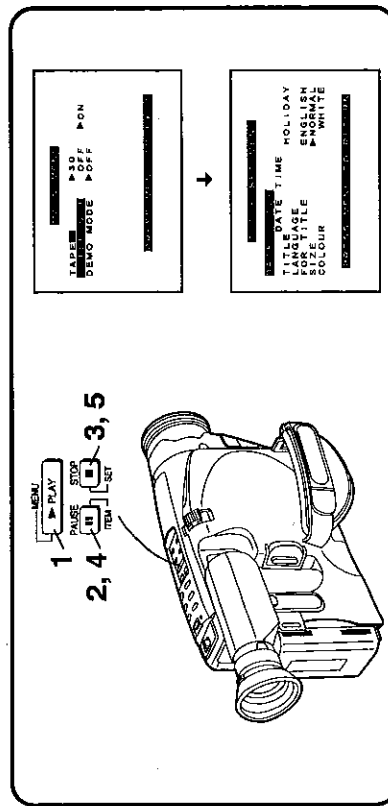
Using the Main Menu

- 1 Press the [MENU] Button.**
 - The [MAIN MENU] Menu appears.

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

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

Exiting the Main Menu
Press the [MENU] Button.



Using the Title Menu

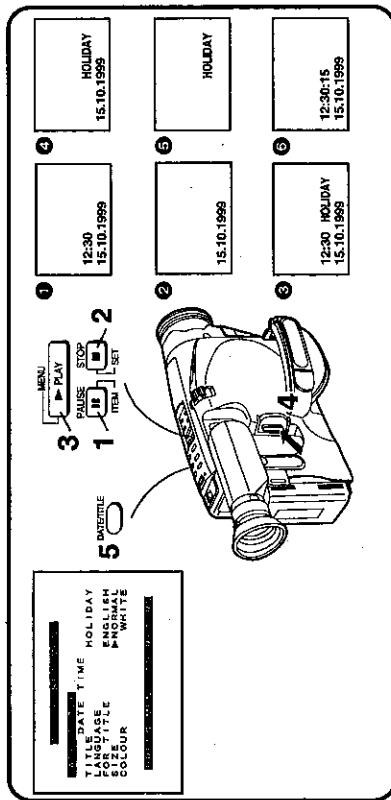
- 1 Press the [MENU] Button.**
 - The [MAIN MENU] Menu appears.
- 2 Press the [ITEM] Button repeatedly to select [TITLE SET].**
- 3 Press the [SET] Button to set to [ON].**
 - The [TITLE SET MENU] Menu appears.
- 4 Press the [ITEM] Button repeatedly to select the item to be set.**

- 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 MENU] 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.

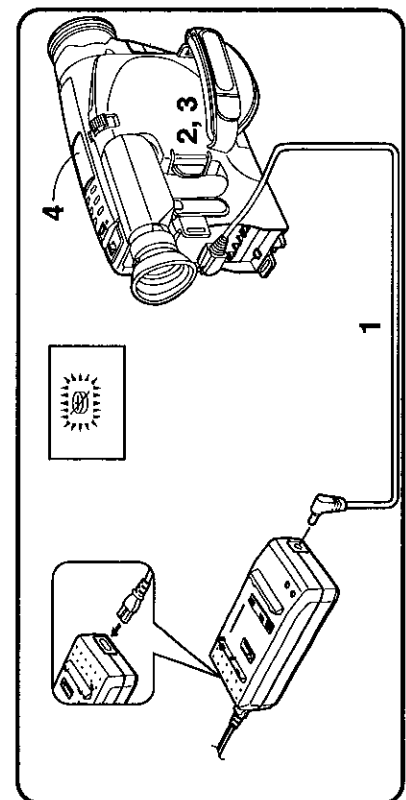


Recording with the Time and/or Date Superimposed in the Picture
After displaying the [TITLE SET MENU] Menu...

- 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 ⑤.
 - 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.
- 5 Deleting the Date/Time/Title Indication
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 [S] 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.

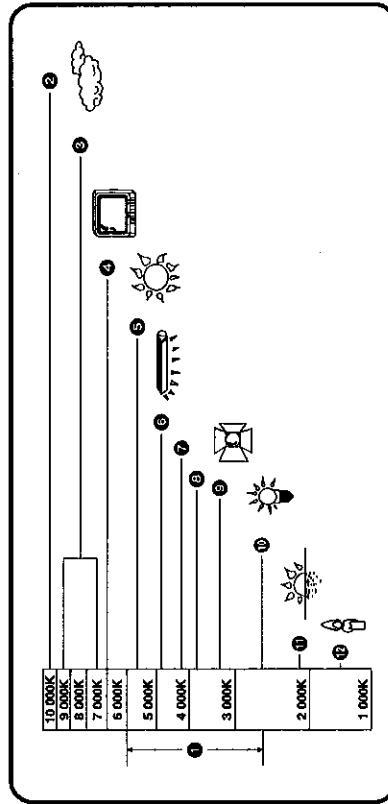
2 Leave the Movie Camera turned off.

- 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 28 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

5 ADJUSTMENT PROCEDURES

5.1. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw)
1	Side Case (L) Unit	Fig. 1	1-Screw (A) 2-Screws (B)
		Fig. 2	7-Screws (C)
		Fig. 3	2-Locking Tabs (a) Slightly open the Side Case (L) Unit. Disconnect P1001 and FP6004.
2	EVF Unit	Fig. 4	4-Locking Tabs (b)
3	Cassette Cover Unit	Fig. 5	2-Screws (D)
4	Side Case (R) Unit with Top Operation Panel Unit	Fig. 6	2-Screws (E) 4-Locking Tabs (c) Slightly open the Side Case (R) Unit with Top Operation Panel Unit. Disconnect FP6003 and FP6006.
		Fig. 6	3-Locking Tabs (d) Disconnect FP6801.
5	Front Case Unit	Fig. 6	3-Locking Tabs (d) Disconnect FP6801.
6	Rear Case Unit	Fig. 7	1-Screw (F) Disconnect PS1003 and PS3009. 1-Locking Tab (e)
		Fig. 7	1-Screw (G) 2-Screws (H) Remove the Shield Case. Disconnect the following connectors; FP5001, FP6001, FP6002, PP301, FP2001, FP2002, FP701
8	Lens Unit	Fig. 8	2-Screws (I)
9	Mechanism Unit	Fig. 8	1-Screw (J) 1-Screw (K)
10	EVF C.B.A.	Fig. 9	Turn the Eye Cap Unit counterclockwise and remove it.
		Fig. 10	Turn the EVF Fixing Piece clockwise until you can see a Screw (L). 3-Locking Tabs (f)

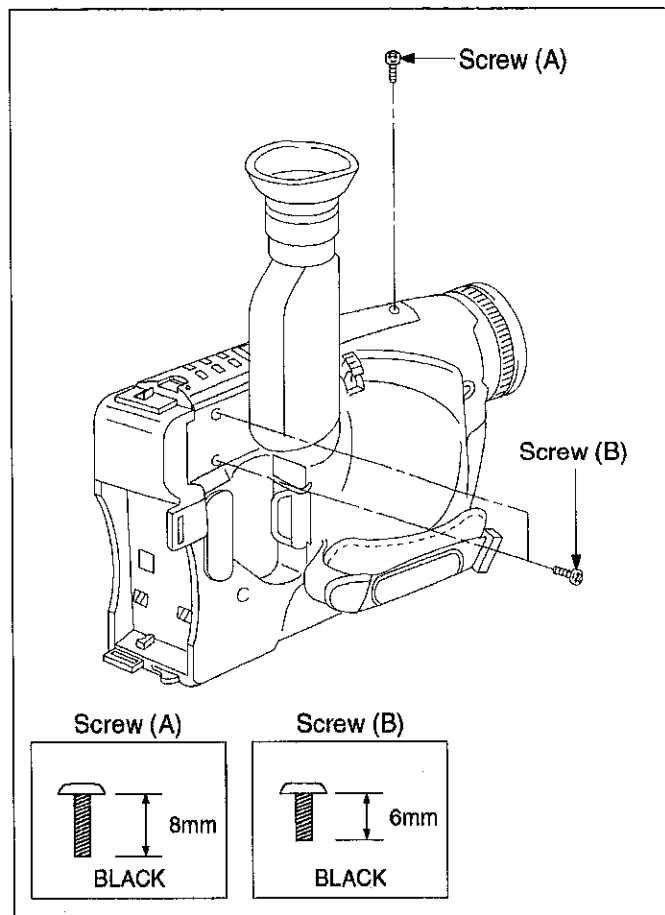


Fig. 1

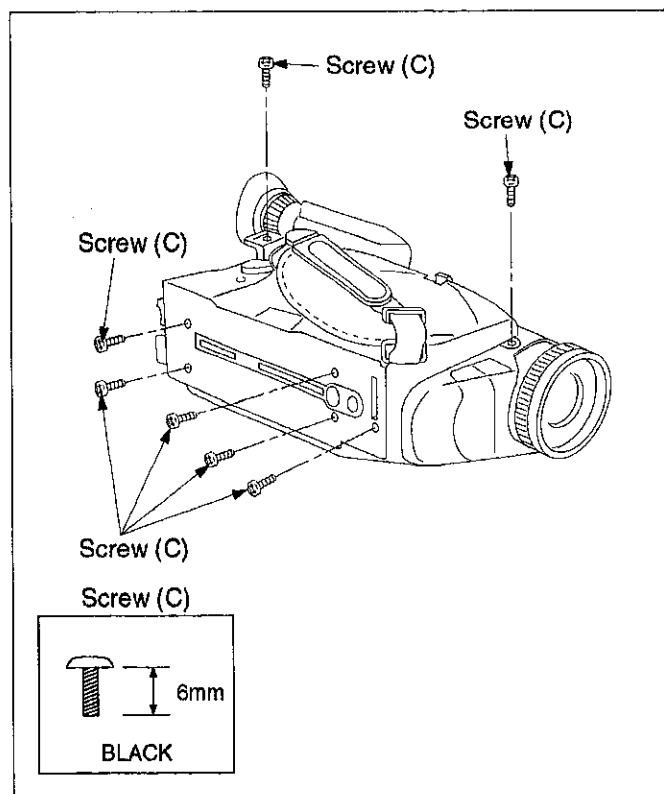


Fig. 2

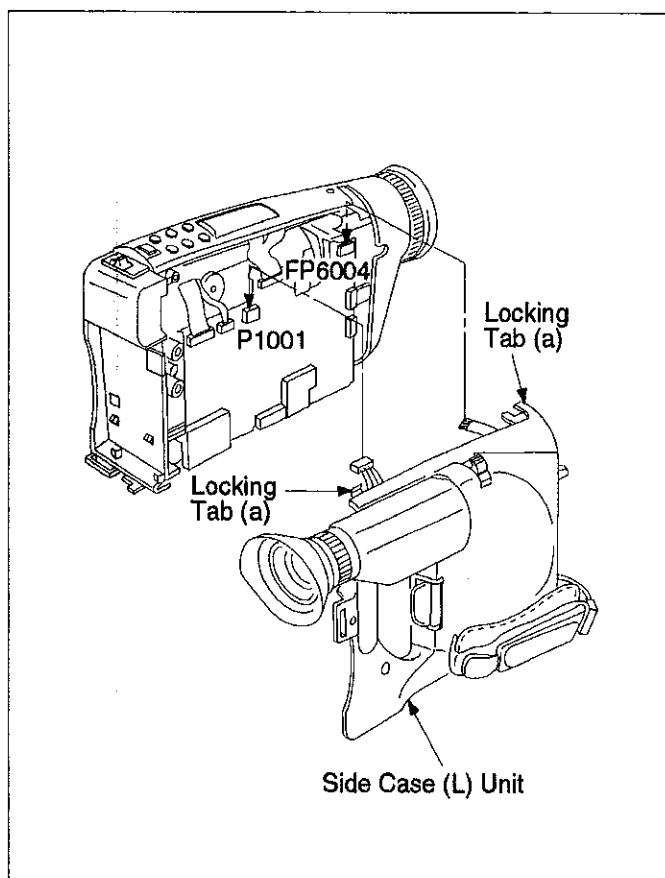


Fig. 3

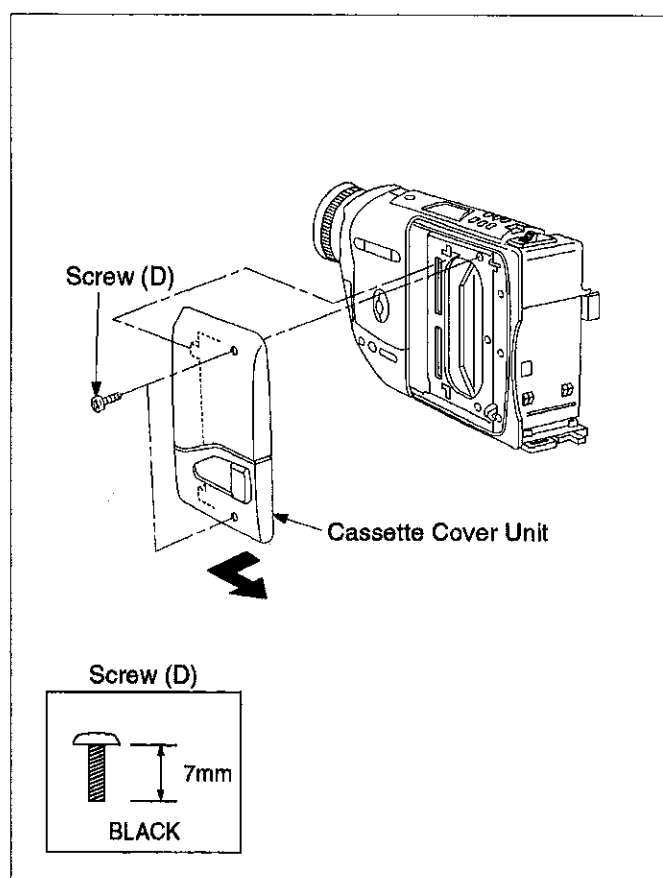


Fig 5

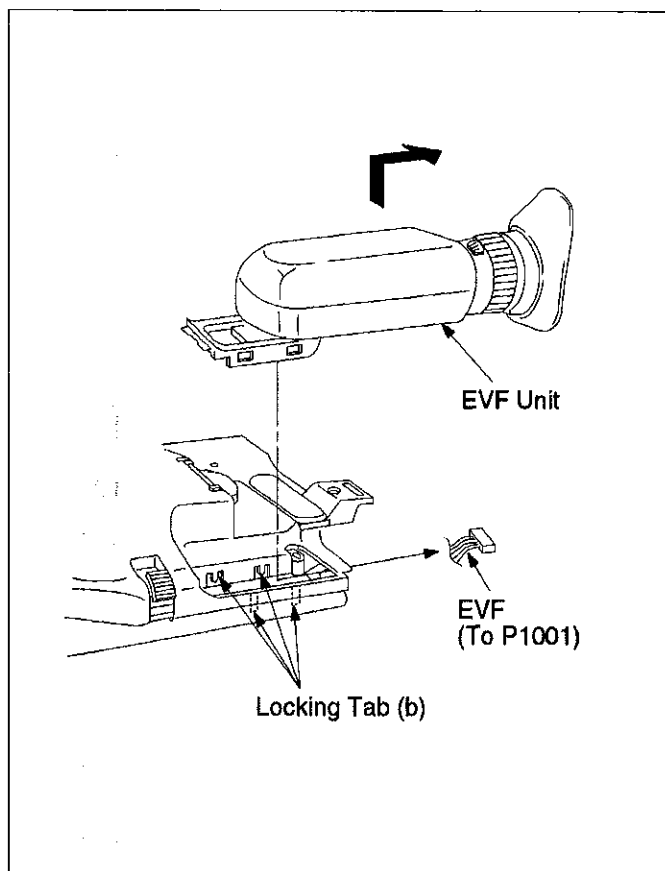


Fig.4

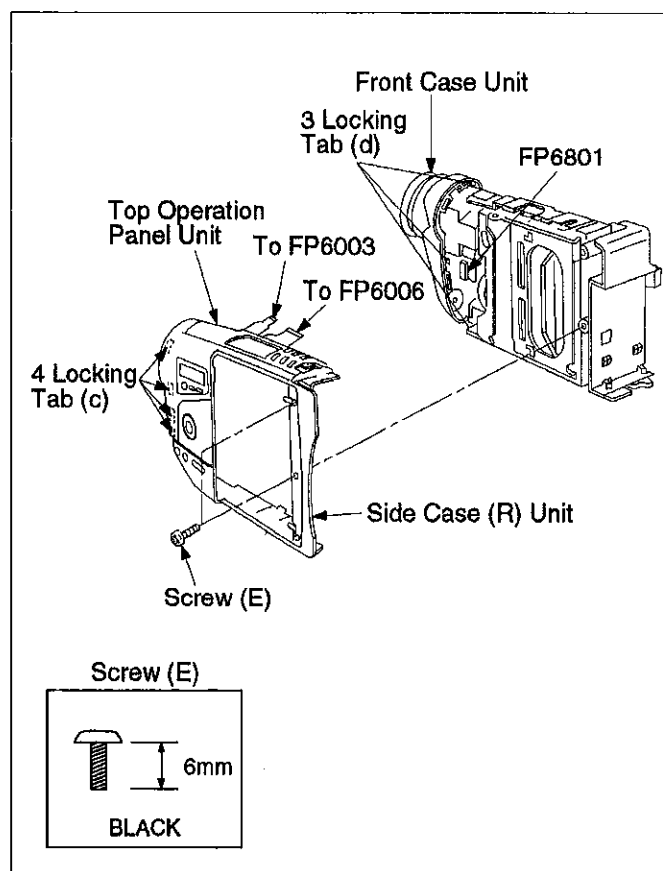


Fig. 6

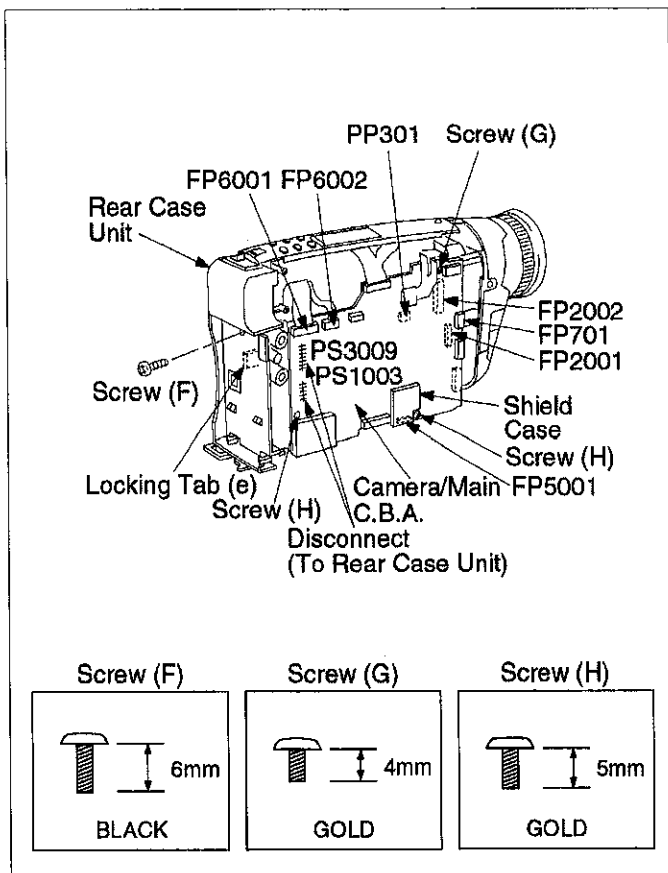


Fig. 7

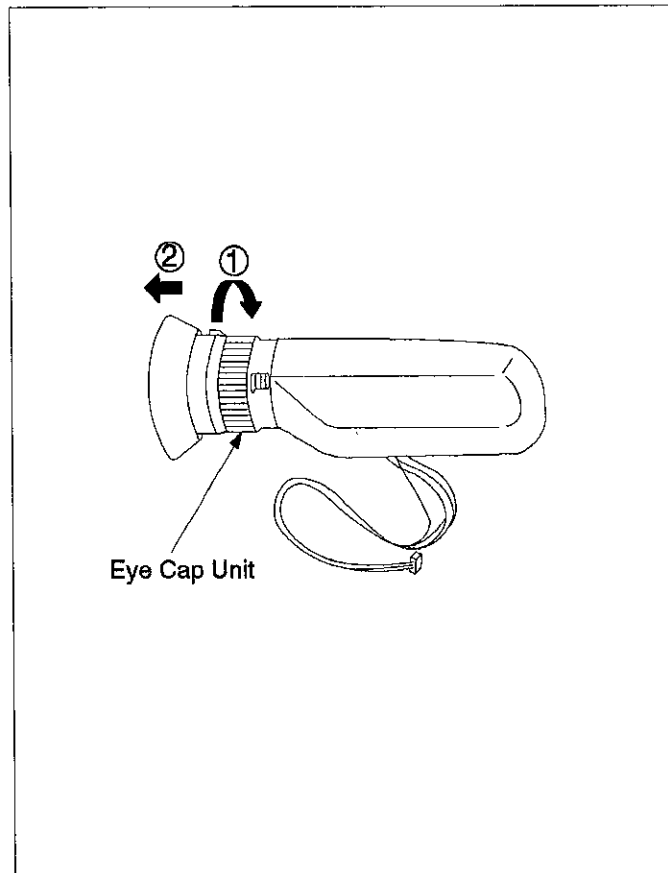


Fig. 9

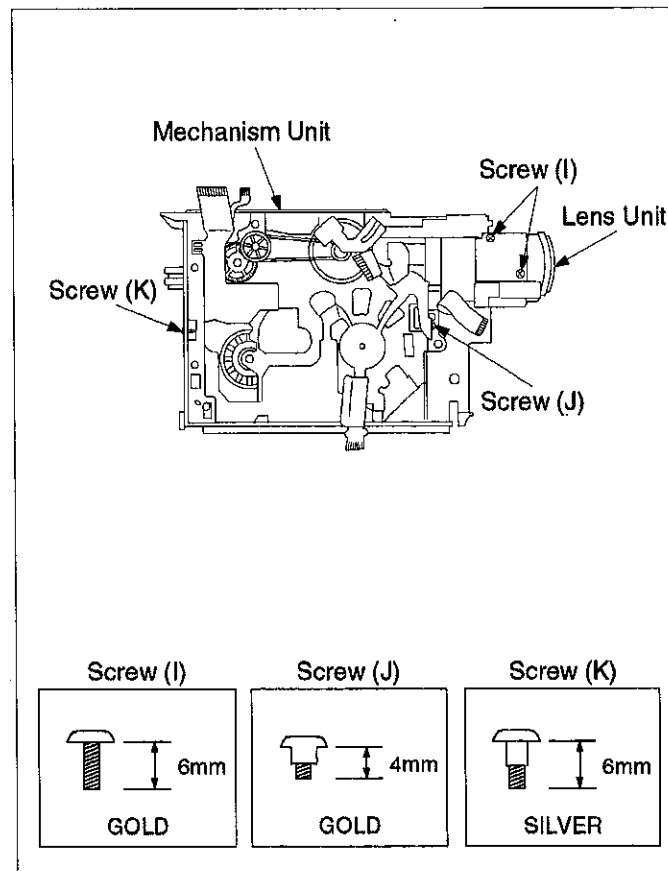


Fig. 8

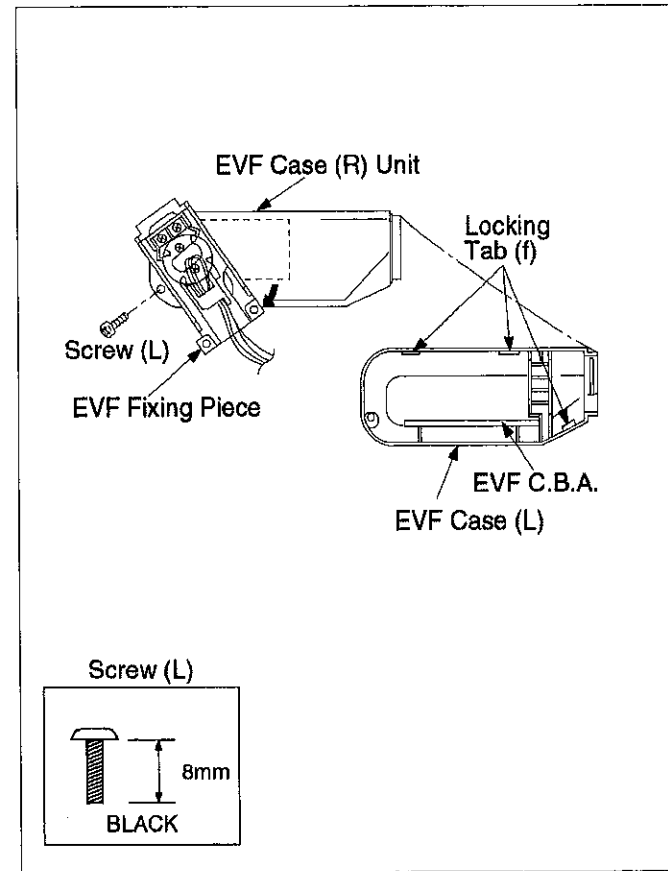


Fig. 10

5.2. ELECTRICAL ADJUSTMENT PROCEDURE FOR EVF SECTION

5.2.1. ADJUSTMENT PROCEDURE

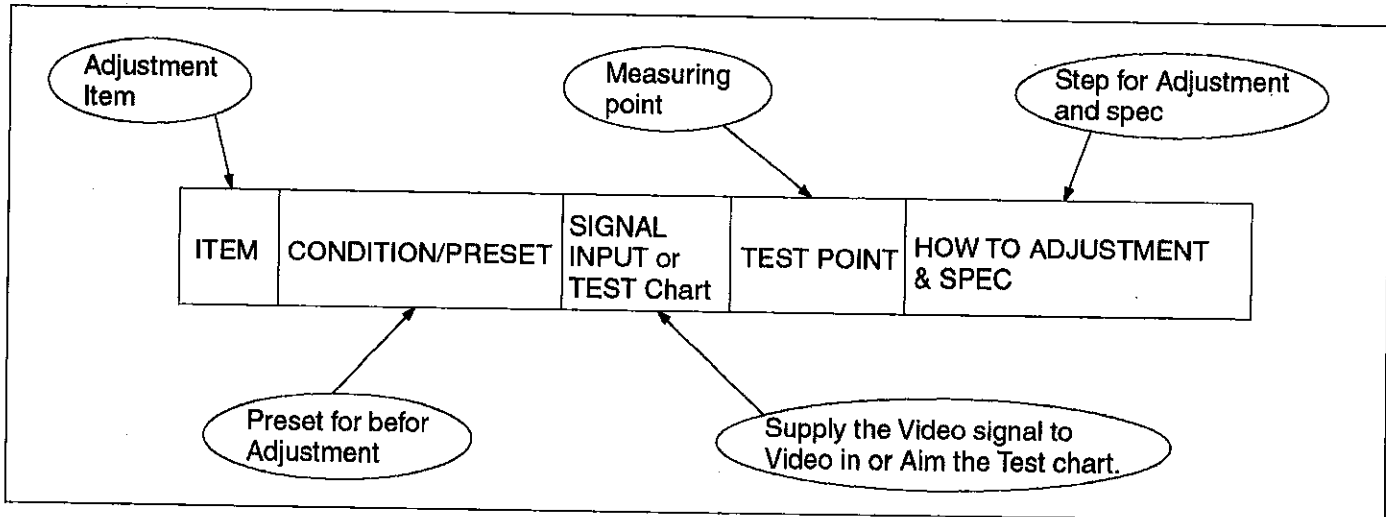
The following Equipment are required for adjustment of the Viewfinder.

1. Chart: Ball chart/Registration chart/Gray Scale chart.
2. Tools: Plastic Tip driver

The following adjustment are Electric Viewfinder.

1. Remove the E.V.F. Unit from Side Case (L).
(Remove the 2 Screws from Side Case (L).)
2. Turn the E.V.F. Fixing Piece clockwise until you can see a 1 Screw and Unlock the 3 Locking tabs.
(Please refer to Fig. E1.)

How to read the Adjustment Procedure.



5.2.2. ELECTRICAL ADJUSTMENT FOR EVF SECTION

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1 CENTERING	Aim the Camera at Registration chart.	Registration Chart	EVF on Screen	Adjust the deflection-yoke centering magnet turning so that picture on EVF is centered. Please refer to Fig. E2.
2 FOCUS	Aim the Camera at Ball Chart.	Ball Chart	EVF on Screen	Adjust the VR803 for best resolution in the Viewfinder. After performed this adjustment, confirm "A" Part of VR803. "A" part is outside of 100 degree. Please refer to Fig. E3.
3 VERTICAL SIZE	Aim the Camera at Gray Scale Chart.	Gray Scale Chart	EVF & TV on Screen	Adjust the VR801 for best vertical size. (Picture does not roll as shown in Fig. E4.)
4 BRIGHTNESS	Aim the Camera at Gray Scale Chart.	Gray Scale Chart	EVF & TV on Screen	Adjust the VR804 so brightness in viewfinder is same as monitor TV.

5.2.3. HOW TO ADJUSTMENT

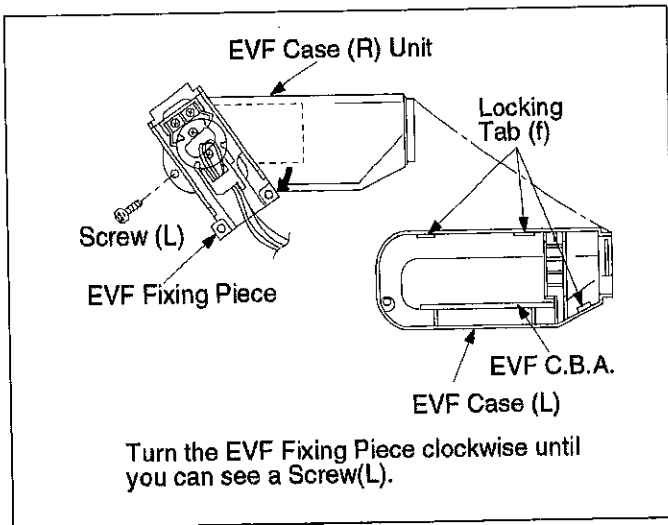


Fig. E1 (PREPARATION)

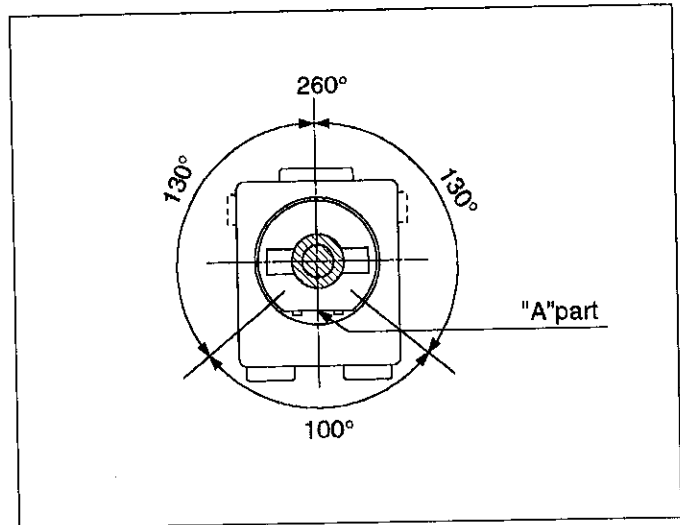


Fig. E3 (FOCUS ADJUSTMENT)

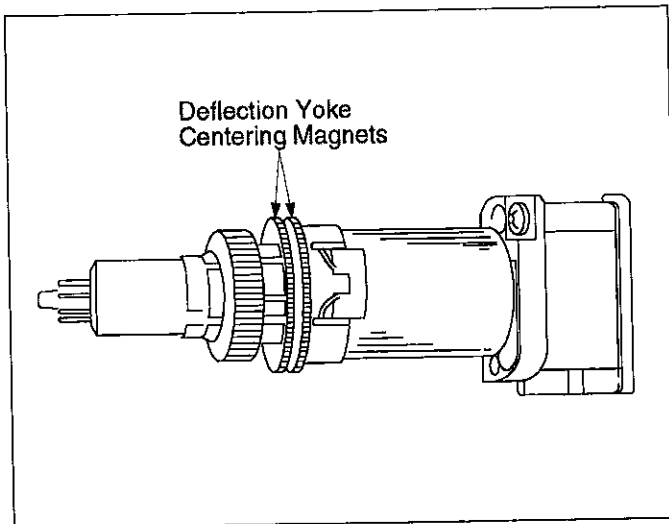


Fig. E2 (CENTER ADJUSTMENT)

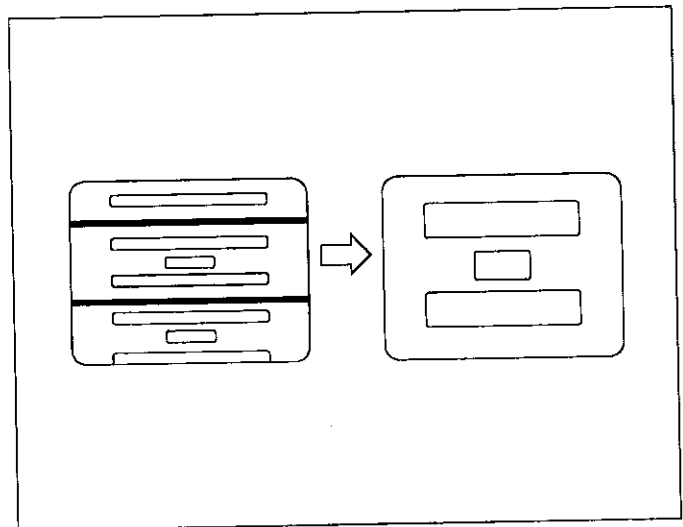
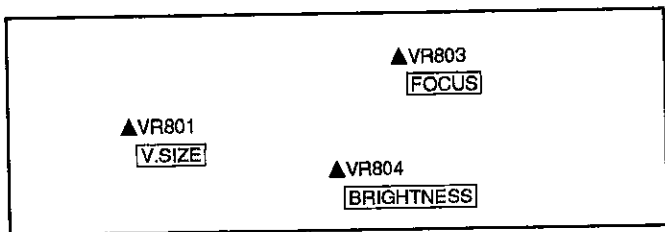


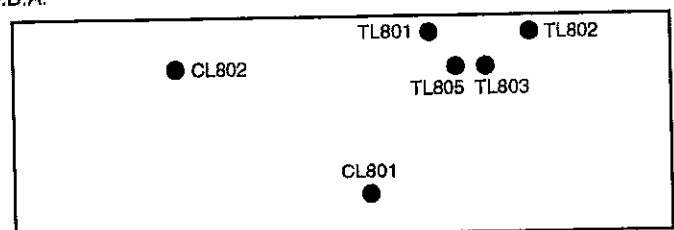
Fig. E4 (VERTICAL ADJUSTMENT)

5.2.4. LOCATION OF TEST POINTS & CONTROLS

EVF C.B.A.



(COMPONENT SIDE)

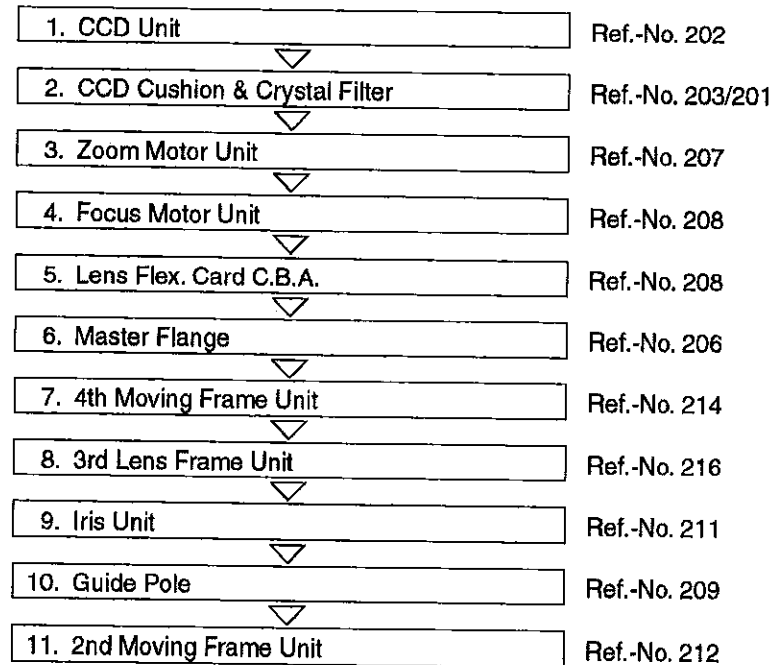


(FOIL SIDE)

Fig. 2

5.3. ISASSEMBLY PROCEDURES OF LENS UNIT

- The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.
- To reassemble the unit follow the steps in reverse order.



Note: Each Ref.-numbers are equivalent to number on Fig. L2 and Parts-List.

Fig. L1

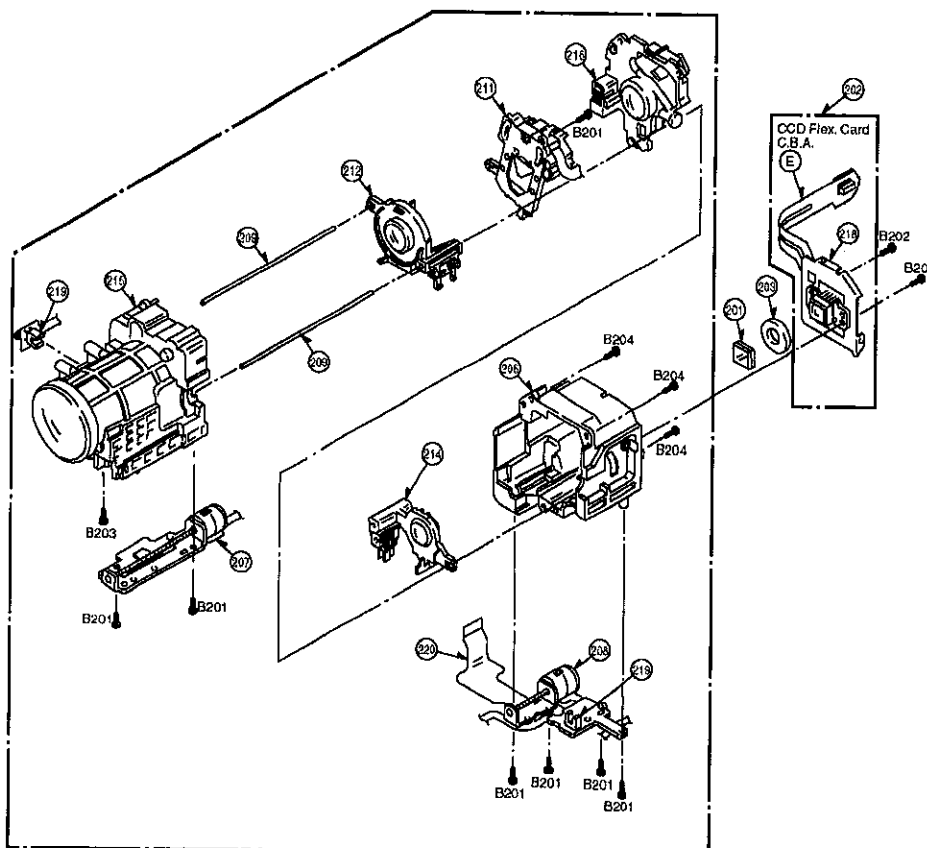


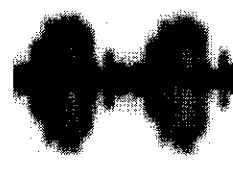
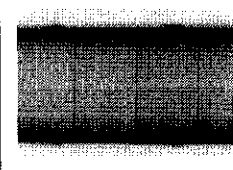
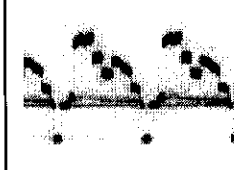
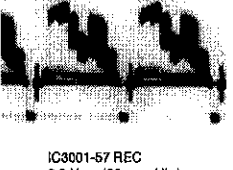
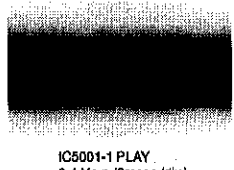
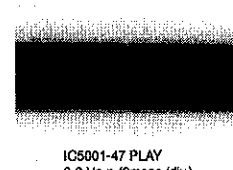
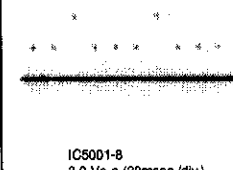
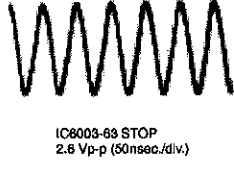
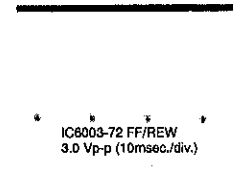
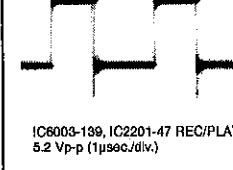
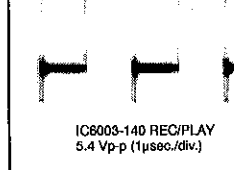
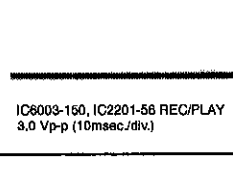
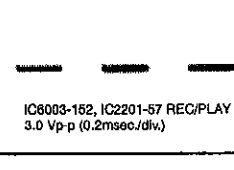
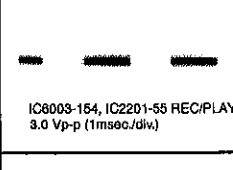
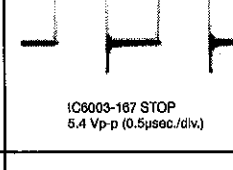
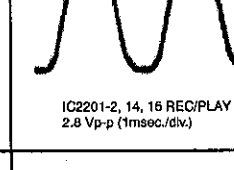
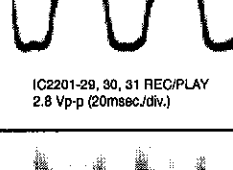
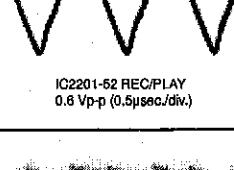
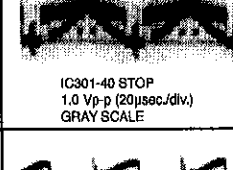
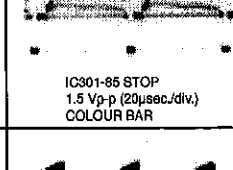
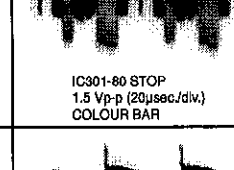
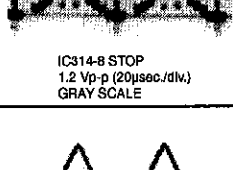
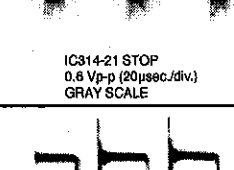
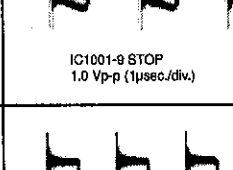
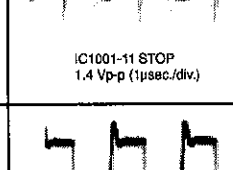
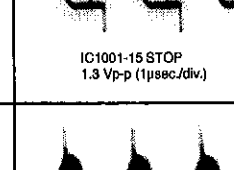
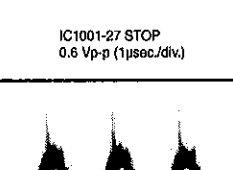
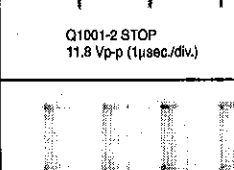
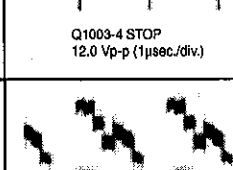
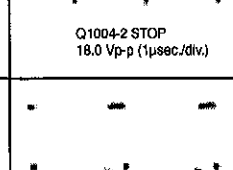
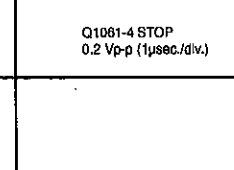
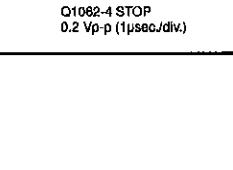
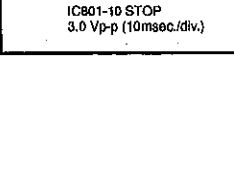
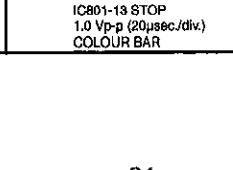
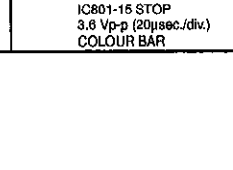
Fig. L2

6 ABBREVIATIONS

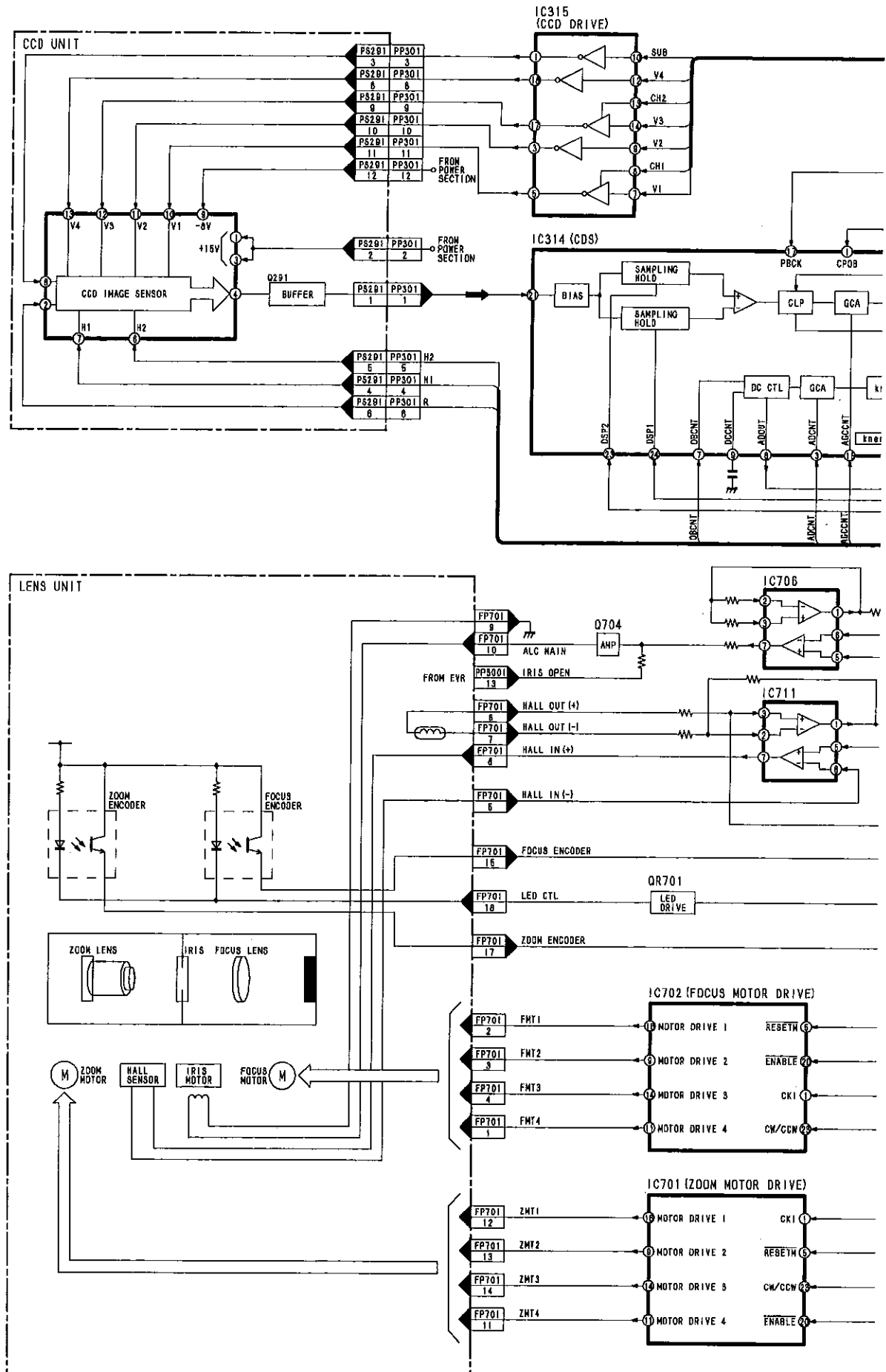
INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
A	A. TR	Auto Tracking	C	CS 0-7	Chrominance Signal Out 0-7
	ABSF	Focus Encoder Input		CSEL	Clock Phase Select
	AD REC	Audio Delayed REC		CW	Clockwise
	ADCLK	Analogue Digital Clock		CYLM	Cylinder Motor Current or Power
	ADCNT	Analogue Digital Control	D	D MODE	Digital Mode Switch Signal
	ADCS	Analogue Digital Chip Select		DAC	Digital Analog Converter
	AE	Auto Expose		DAC	Digital Analogue Converter
	AECNT	Auto Expose Control		DB 0-7	Data 0-7
	AEIRQ	Auto Expose Interrupt Request		DCLR	Digital Clear
	AFAD	Audio Fade		DCP	Digital Clamp Pulse
	AGCCNT	Automatic Gain Control Control		DICLK	Digital Clock
	AGS	Anti Ground Shooting		DIS	Digital Image Stabilizer
	ALCCNT	Auto Level Control Control		DISCS	Dis Chip Select
	ALCMAIN	Auto Level Control Drive		DISP	Display
	AMUT	Audio Mute		DL	Delay Line
	AORP	Audio Overlap Pulse		DOCTL	Data Output Control
	APCNT	Aperture Control		DODAT	Serial Data (to D/A Converter)
	APS	Auto Power Save		DRK	Dark
	ARTV	Artificial Vertical Sync		DS	Double Sampling Pulse
	ATR	Auto Tracking		DS 1, 2	Double Sampling Pulse
	AVDD	Analogue VDD		DSP	Digital Signal Processor
	AVSS	Analogue Ground		DVDD	Digital VDD
	AWTB	Auto White Balance B-Y		DVSS	Digital Ground
	AWTR	Auto White Balance R-Y		DZ	Digital Zoom
B	B-Y KB	B-Y Carrier Balance	E	E Snap	Electric Snap Shot
	BACK	Back-up		E2P	EEPROM
	BCBM (B-Y)	B-Y Carrier Balance		ECM	Electric Condenser Mic
	BCBM (R-Y)	R-Y Carrier Balance		EE CS	EEPROM Chip Select
	BFA	Burst Flag for Encoder		EEPROM	Electric Erasable Programmable Read Only Memory
	BFND	Burst Flag Pulse		ENV	Envelope
	BFO/BFI	Burst Flag Input/Output		EQ	Equalizer
	BL	Back Light		EXT DC	External DC (AC Adaptor)
	BLC O, I	Back Light Y Control Out, In	F	EZOOM	Electric Zoom
	BLD I/O	Back Light Drive Input/Output		F	Far (Focus)
	BLK	Blanking Pulse		FCK	Clock
	BLK I/O	Blanking Pulse In/Out		FENC	Focus Encoder
	BM	Balance Modulator		FM0-7	Field Memory 0-7
	BUF	Buffer		FMCS	Chip Select for FM-Audio
				FMDREC	FM Audio Delayed REC
C	C CNT	Colour Control		FMOEM	Field Memory Enable
	C/N	Carrier/Noise		FMT 1-4	Focus Motor Terminal 1-4
	CAMCLK	Camera Clock		FNO	F Value
	CAP R/F/S	Capstan Revers (H)/Stop (M)/Forward (L)	G	GCNT	Gain Control
	CAPVM	Capstan Motor Current		GSW	Ground for Switching Power
	CASDWN	Cassette Down	H	H 1, 2	H. CCD Drive Pulse
	CBLK	Composite Blanking Pulse		HASW	HEAD AMP SW
	CCW	Counter-Clockwise		HBRST	High Bright Set
	CDS	Correlate Double Sampling Signal		HCLR	High Clear
	CFEM	Chrominance Memory Signal		HCP	Shift Clock for Horizontal Drive
	CGC	Chrominance Gain		HEX	Hexadecimal
	CH1	Channel 1 (Odd Field)		HLT	High Bright Signal
	CHR MIX	Character Mix		HSS	Horizontal Sync Signal
	CL/CLK	Clock		HSS	High Speed Shutter
	CMO	Chroma Memory Output	I	INTER	Interval Recording
	CMODE	Camera Mode		INV	Inverter
	CO 0-7	Chrominance Output 0 to 7 (Digital)		IOU	R-Y Analogue Signal Output
	COM	Common		IOV	B-Y Analogue Signal Output
	CP	Clamp Pulse		IRDET	Infrared Rays Detection
	CPOB	Clamp Pulse for Optical Blanking			
	CPS	Composite Signal			
	CRST	Camera Reset			
	CS	Chip Select			

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
I	IRIS/SH IRQ	Iris/Shutter Control Interrupt Request	R	RW RWAE	Read Write Read Write Enable
K	KANDQ KND KNEE	Digital Gain Up Digital Gain Up Knee Corection (γ Control)	S	S PHOT SDET STAB ST5V STAB SNS LED SCK/SCLK SBD SBI SBO SO SIOC SH/IRIS S/S SUB CNT SSG	Supply Photo Transistor S-VHS Detect S-VHS Tab Switch Safety Tab 5V Safety Tab Switch Sensor LED Serial Clock Serial Data Serial Data Input Serial Data Output Serial Data Output Serial In/Out Control SHUTTER/IRIS CONTROL Start/Stop Sub Control Sync Signal Generator
L	LCD LD LEDCNT LI-BATT LSB LVL	Liquid Crystal Display Load Pulse LED Control Lithium Battery Least Significant Bit LPF Switch for Auto Focus	T	T PHOT TBC TL TRFIX TRIWAVE TRP	Take-up Photo Transistor Time Base Control Torque Limit Tracking Fix Tracking Wave Tracking Position
M	MD MENB MFF MFN MIX N.R.D MRST MSB MVSYN	Modulation Focus Motor Enable Manual Focus Far Manual Focus Near Non Rec Data Mix Focus Motor Reset Most Signal Bit Monitor Vertical Sync Signal	U	U/V SEL UV SEL	R-Y/B-Y Select Signal R-Y/B-Y Select Signal
N	N N/F N/P NC NDE NLE NR NRD NRD BLK NRD CLK NRDBLK NRE NWE	Near (Focus) Near/Far Focus NTSC/PAL No Connection Non Liner De-Emphasis Non Liner Emphasis Noise Reduction Non Rec Data No Rec Data Blanking No Rec Data Clock Non Rec Data Blanking Read Enable Input (Low Active) Write Enable (Low Active)	V	V1-V4 VB VCO VCP VCTRL VD VDREC VIN VITC VL VM VMD1-3 VMODE VMVH VORP VRB VREF1R3V VREF3R3V VREFH VREFL VRI VRO VRT VSS	V. CCD Drive Pule VH Filter Switching Voltage Control Oscillator Shift Clock Output for Vertical Drive Voltage Charge Control Vertical Drive Pulse Video Delayed Rec Video In Vertical Interval Time Code Low Voltage Motor Voltage Electric Shutter Mode NTSC/PAL Select Switch VH Filter Switching Video Overlap Voltage Reference Bottom Reference Voltage 1.3V Reference Voltage 3.3V Reference Voltage High Side Reference Voltage Low Side Reference Voltage Input Reference Voltage Output Voltage Reference Top Vertical Sync Signal
O	OBCNT OE OP OSD OVL OZ	Optical Black Control Output Enable Operation AMP Output ON Screen Display Overlap Pulse Optical Zoom	W	WAD/WAE WB WE WEM WHD	Write Address Enable White Balance Write Enable Memory Write Enable Wide Horizontal Drive Pulse
P	PAJ PB1-3 PBCTL PBCTL PBLK PCBM PED PEDECNT PREAMP PREBLK PT PWM	Picture Control PNP Base 1-3 Play Back Control Pre-Blanking Control Pre-Blanking (Pulse) Carrier Balance Pedestal Pedestal Control Pre-AMP Pre-Blanking Protect for V Voltage Pulse Width Modulation	Y	YNCST YNR	Noize Canceller Noize Reduction
R	R/B R-Y KB RAD RAE RE RE REC CCNT RECCTRL RERASE RST RSTPWD RSTR RSTW	Read/Busy R-Y Carrier Balance Reed Address Data Read Address Enable Read Enable Rotary Erase Head Rec Current Control Recording Control Pulse Rotary Erase Head Reset Reset Power Down Input Reset Read Reset Write	Z	Z. ENC Z. MIC ZENC ZMT(+)/(-) ZMTER ZMW	Zoom Encoder Zoom Mic Zoom Encoder Output Zoom Motor (+)/(-) Zoom Motor Tele Side Zoom Motor Wide Side

7 WAVE FORM TABLE

				
IC701-11, 14 POWER ON 6.0 Vp-p (5msec/div.) ZOOM MOTOR DRIVING	IC3001-15 REC 0.2 Vp-p (2msec/div.) COLOUR BAR	IC3001-9 REC 0.5 Vp-p (20µsec/div.) COLOUR BAR	IC3001-6 REC 0.4 Vp-p (5msec/div.) COLOUR BAR	IC3001-61 REC 1.4 Vp-p (20µsec/div.) COLOUR BAR
				
IC3001-57 REC 2.0 Vp-p (20µsec/div.) COLOUR BAR	IC5001-1 PLAY 0.4 Vp-p (2msec/div.) COLOUR BAR	IC5001-47 PLAY 0.2 Vp-p (2msec/div.) COLOUR BAR	IC5001-8 3.0 Vp-p (20msec/div.) COLOUR BAR	IC6003-13 FF/REW 2.2 Vp-p (50msec/div.)
				
IC6003-15 FF/REW 3.0 Vp-p (20msec/div.)	IC6003-63 STOP 2.6 Vp-p (50msec/div.)	IC6003-72 FF/REW 3.0 Vp-p (10msec/div.)	IC6003-139, IC2201-47 REC/PLAY 5.2 Vp-p (1µsec/div.)	IC6003-140 REC/PLAY 5.4 Vp-p (1µsec/div.)
				
IC6003-150, IC2201-56 REC/PLAY 3.0 Vp-p (10msec/div.)	IC6003-152, IC2201-57 REC/PLAY 3.0 Vp-p (0.2msec/div.)	IC6003-154, IC2201-55 REC/PLAY 3.0 Vp-p (1msec/div.)	IC6003-167 STOP 5.4 Vp-p (0.5µsec/div.)	IC2201-2, 14, 16 REC/PLAY 2.8 Vp-p (1msec/div.)
				
IC2201-29, 30, 31 REC/PLAY 2.8 Vp-p (20msec/div.)	IC2201-52 REC/PLAY 0.6 Vp-p (0.5µsec/div.)	IC301-40 STOP 1.0 Vp-p (20µsec/div.) GRAY SCALE	IC301-85 STOP 1.5 Vp-p (20µsec/div.) COLOUR BAR	IC301-80 STOP 1.5 Vp-p (20µsec/div.) COLOUR BAR
				
IC314-8 STOP 1.2 Vp-p (20µsec/div.) GRAY SCALE	IC314-21 STOP 0.6 Vp-p (20µsec/div.) GRAY SCALE	IC1001-9 STOP 1.0 Vp-p (1µsec/div.)	IC1001-11 STOP 1.4 Vp-p (1µsec/div.)	IC1001-15 STOP 1.3 Vp-p (1µsec/div.)
				
IC1001-27 STOP 0.6 Vp-p (1µsec/div.)	Q1001-2 STOP 11.8 Vp-p (1µsec/div.)	Q1003-4 STOP 12.0 Vp-p (1µsec/div.)	Q1004-2 STOP 18.0 Vp-p (1µsec/div.)	Q1001-4 STOP 0.2 Vp-p (1µsec/div.)
				
Q1002-4 STOP 0.2 Vp-p (1µsec/div.)	IC801-10 STOP 3.0 Vp-p (10msec/div.)	IC801-13 STOP 1.0 Vp-p (20µsec/div.) COLOUR BAR	IC801-15 STOP 3.6 Vp-p (20µsec/div.) COLOUR BAR	

8.2. CAMERA BLOCK DIAGRAM

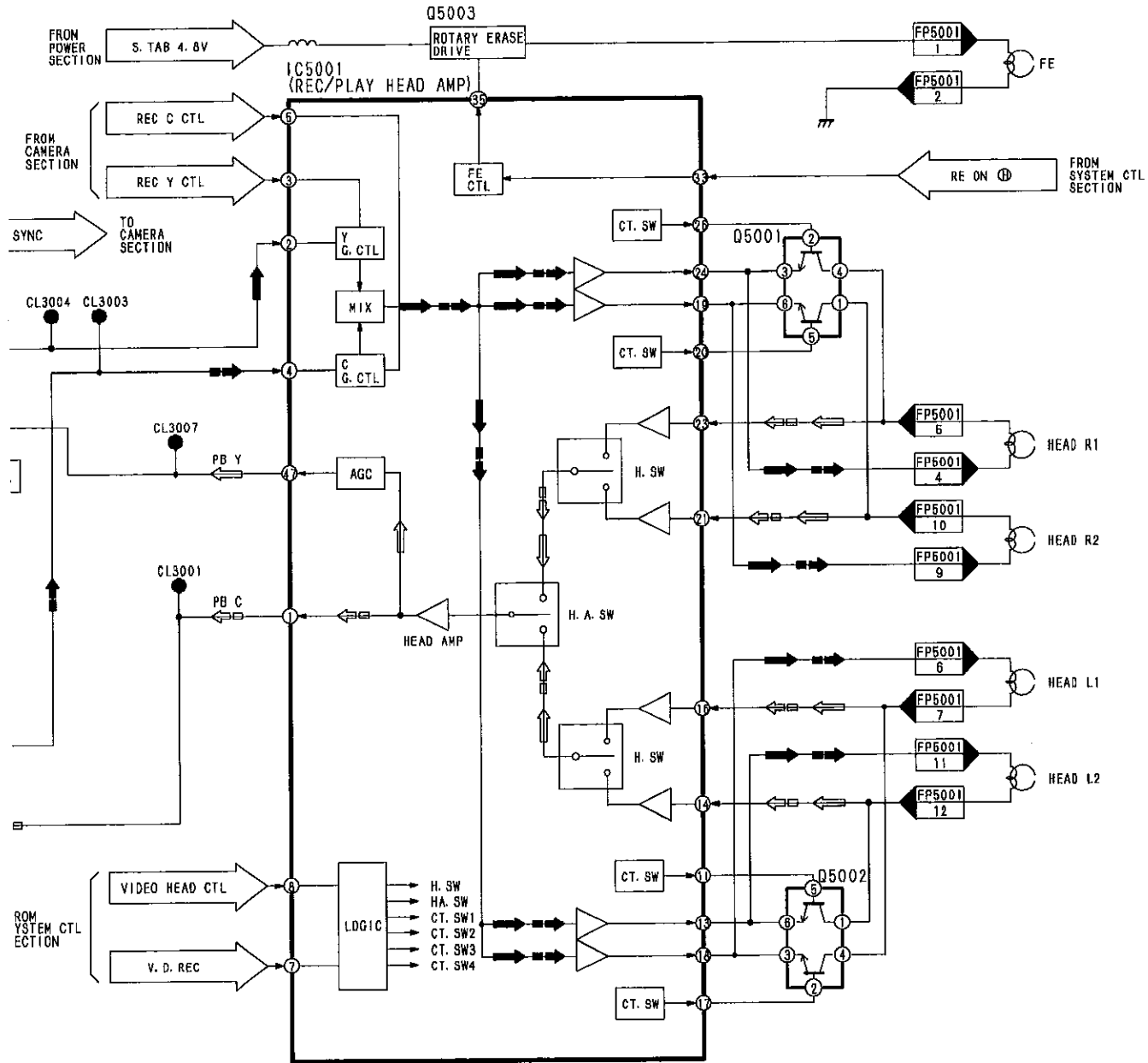


H IN REC MODE

➡ : C SIGNAL PATH IN REC MODE

H IN PLAYBACK MODE

⇨ : C SIGNAL PATH IN PLAYBACK MODE

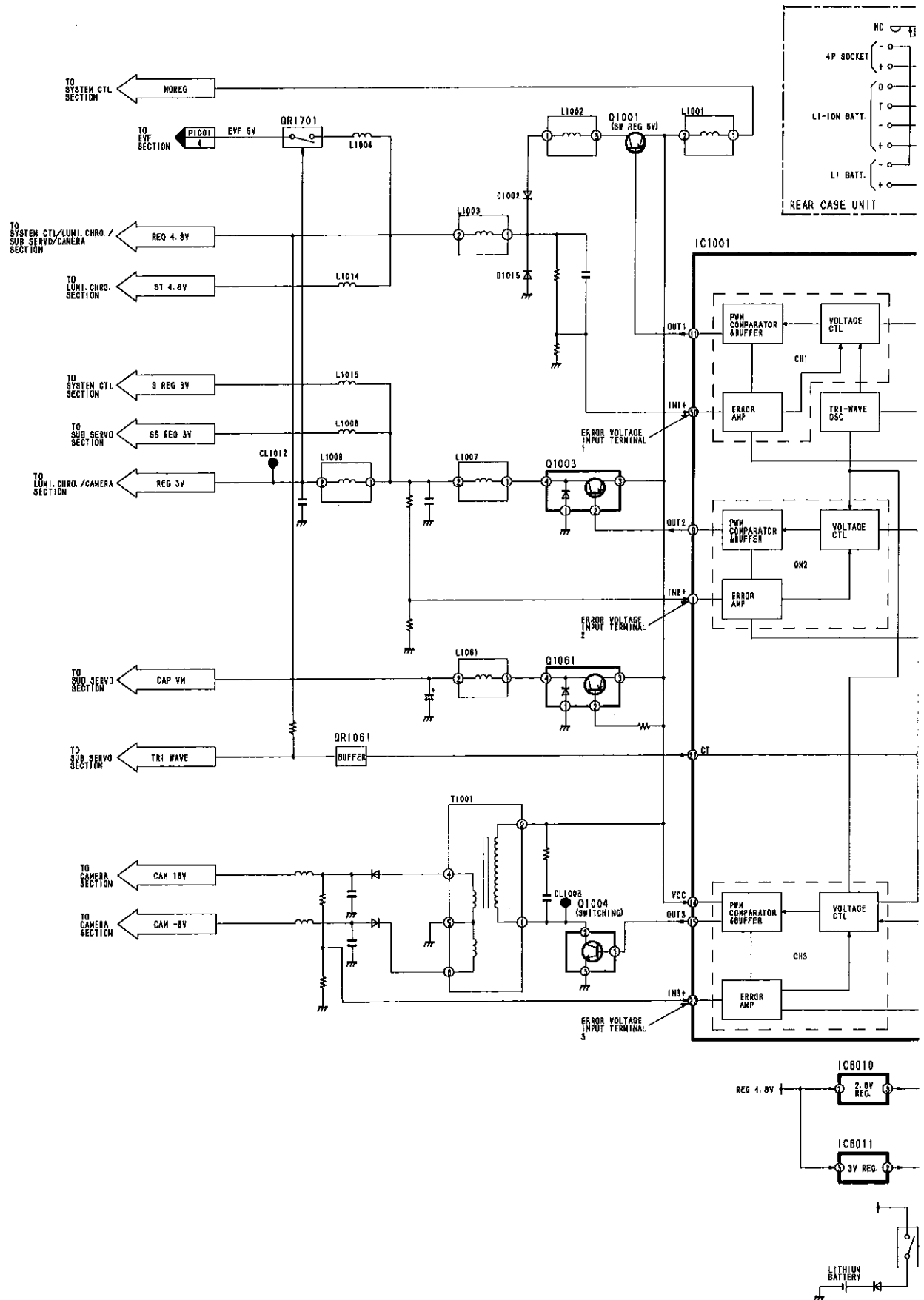


8.1. VIDEO BLOCK DIAGRAM





8.3. SYSTEM CONTROL & SERVO/POWER BLOCK DIAGRAM



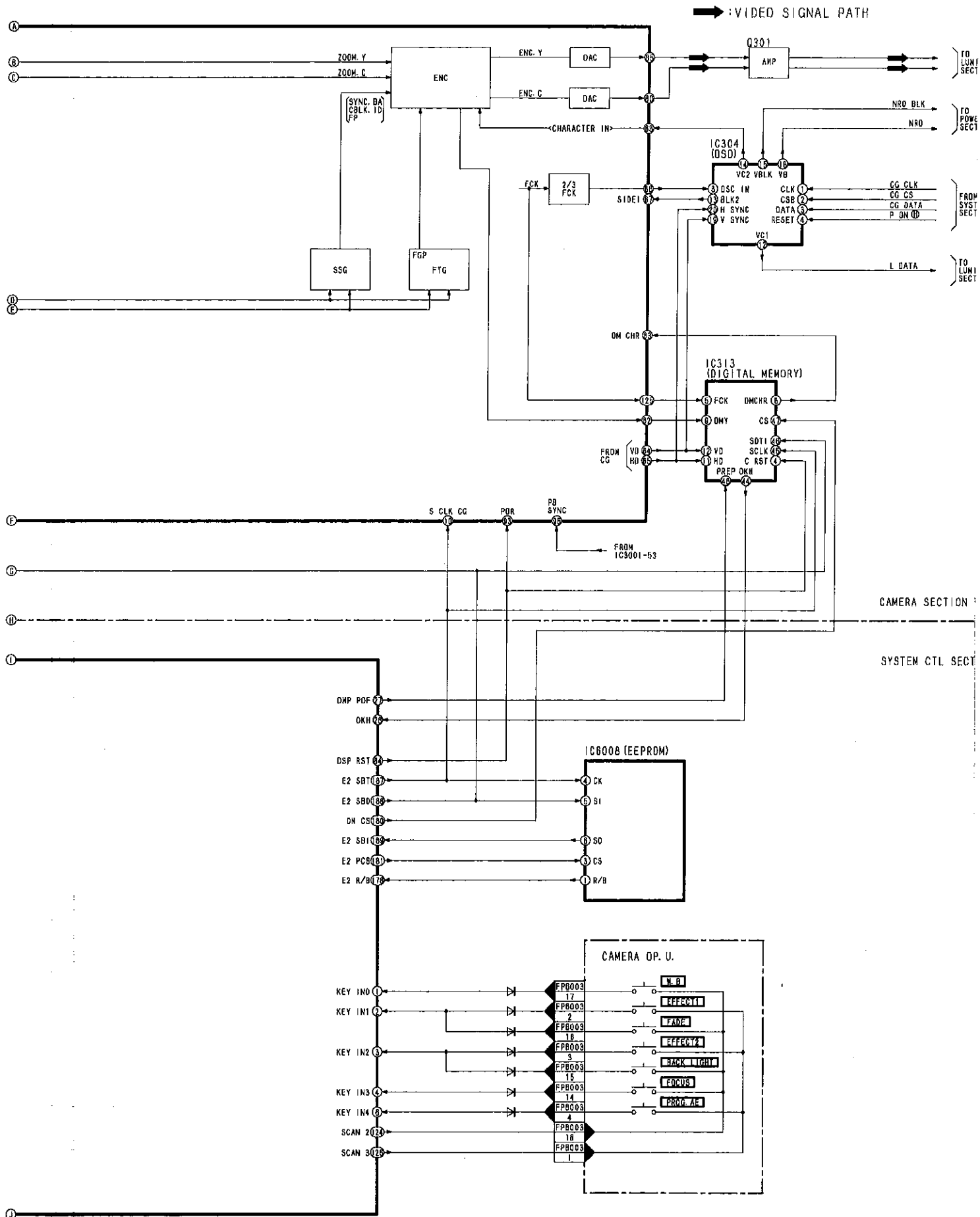
. CHRO.
ION

R
ION

. CH CTL
ION

. CHRO.
ION

ION

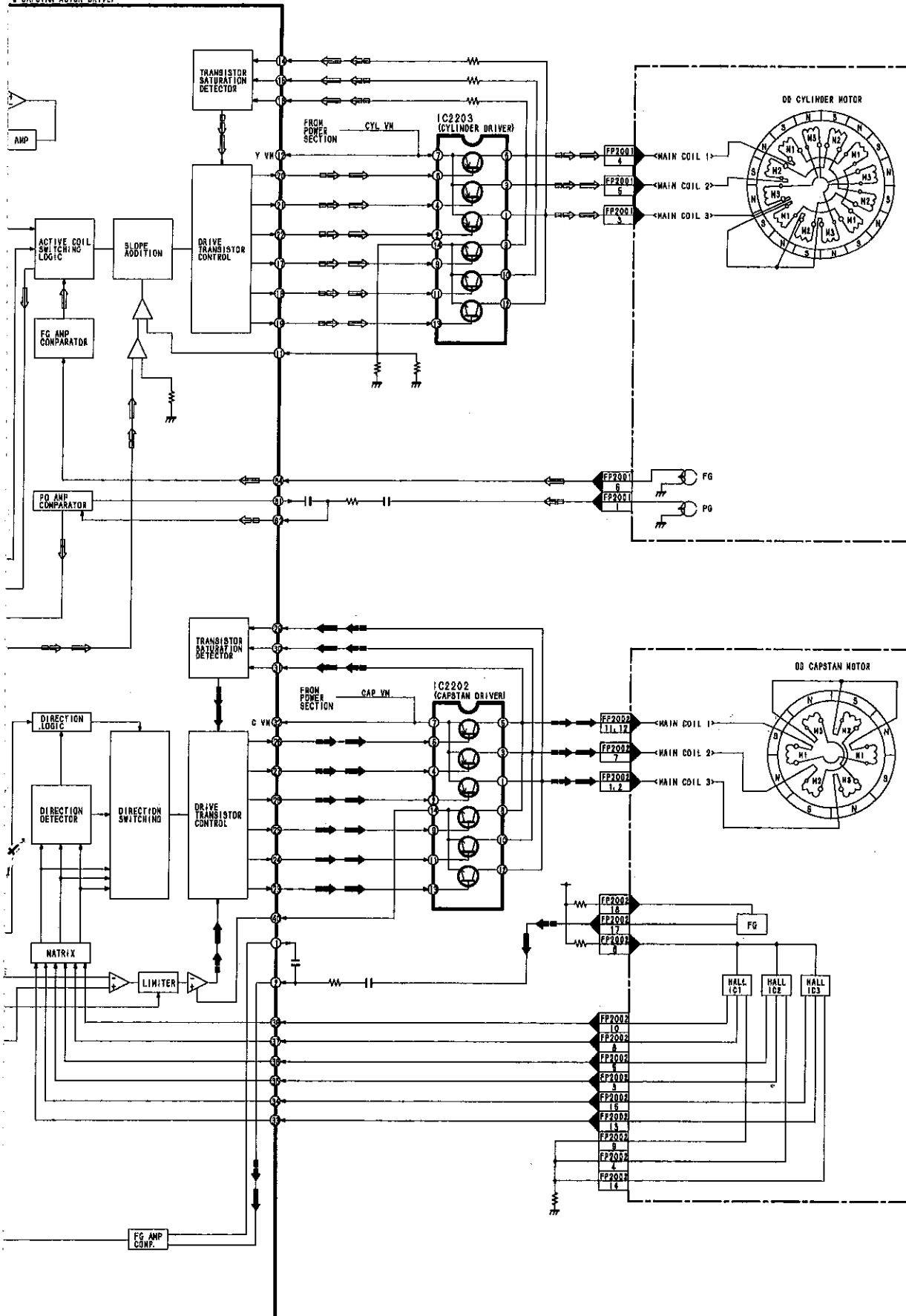




8.4. SYSTEM CONTROL & SERVO DC VOLTAGE CHART(SP MODE)

Ref No.	IC6002																			
MODE	1	2	3	4	5	6	7	8												
STOP	3.0	0.5	0.5	0	0.3	2.7	2.6	3.1												
PLAY	3.0	0.5	0.5	0	0.3	2.7	2.6	3.1												
FF	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	
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	
PLAY	2.9	2.9	2.9	2.9	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	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	
STOP	0	0	1.1	0	0	0	2.9	2.9	0	2.9	—	—	—	—	—	—	—	1.2	0	
PLAY	0	0	1.1	0	0	0	2.9	2.9	0	2.9	—	—	—	—	—	—	—	0.3	0	
FF	0	0	1.1	0	0	0	2.9	2.9	0	2.9	—	—	—	—	—	—	—	1.2	0	
Ref No.	IC6003																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	
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	
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	
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	
Ref No.	IC6003																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	
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	0.6	—	
PLAY	0	2.9	0	2.9	—	2.9	2.9	2.9	0	2.9	0	0	0.7	0	0	0	0	0.6	—	
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	1.1	—	
Ref No.	IC6003																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	
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	
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	
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	
Ref No.	IC6003																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	
STOP	1.7	2.1	2.9	2.9	2.9	2.9	0	0.9	0.1	2.9	0.1	0	2.9	0	2.8	2.6	2.9	—	2.9	
PLAY	1.7	2.1	2.9	2.9	0	2.9	0	0.9	0	2.9	0.1	0	2.9	0	2.8	2.6	2.9	—	2.9	
FF	1.7	2.1	2.9	2.9	2.9	2.9	0	1.1	0.1	2.9	0.1	0	2.9	0	2.8	2.6	2.9	—	2.9	
Ref No.	IC6003																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	
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	
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	
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	
Ref No.	IC6003																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	
STOP	0	0	0	0	0	—	2.9	0	0.3	0.1	2.6	2.9	1.1	1.5	2.9	—	2.9	0.1	2.9	
PLAY	0	0	2.9	0	0	—	2.9	0	0.3	0.1	2.6	1.5	1.1	1.5	2.9	—	2.9	0.1	2.9	
FF	0	0	0	0	0	—	2.9	0	0.3	0.1	2.6	1.5	1.1	1.5	2.9	—	2.9	0.1	2.9	
Ref No.	IC6003																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	
STOP	2.9	0	0	0	0	2.6	1.5	0	0	2.9	0	0	2.9	—	—	—	0	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	
FF	2.9	0	0	0	0	2.6	1.5	0	0	2.9	0	0	2.9	—	—	—	0	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	
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	
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	
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	
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									

4 CAPSTAN MOTOR DRIVES

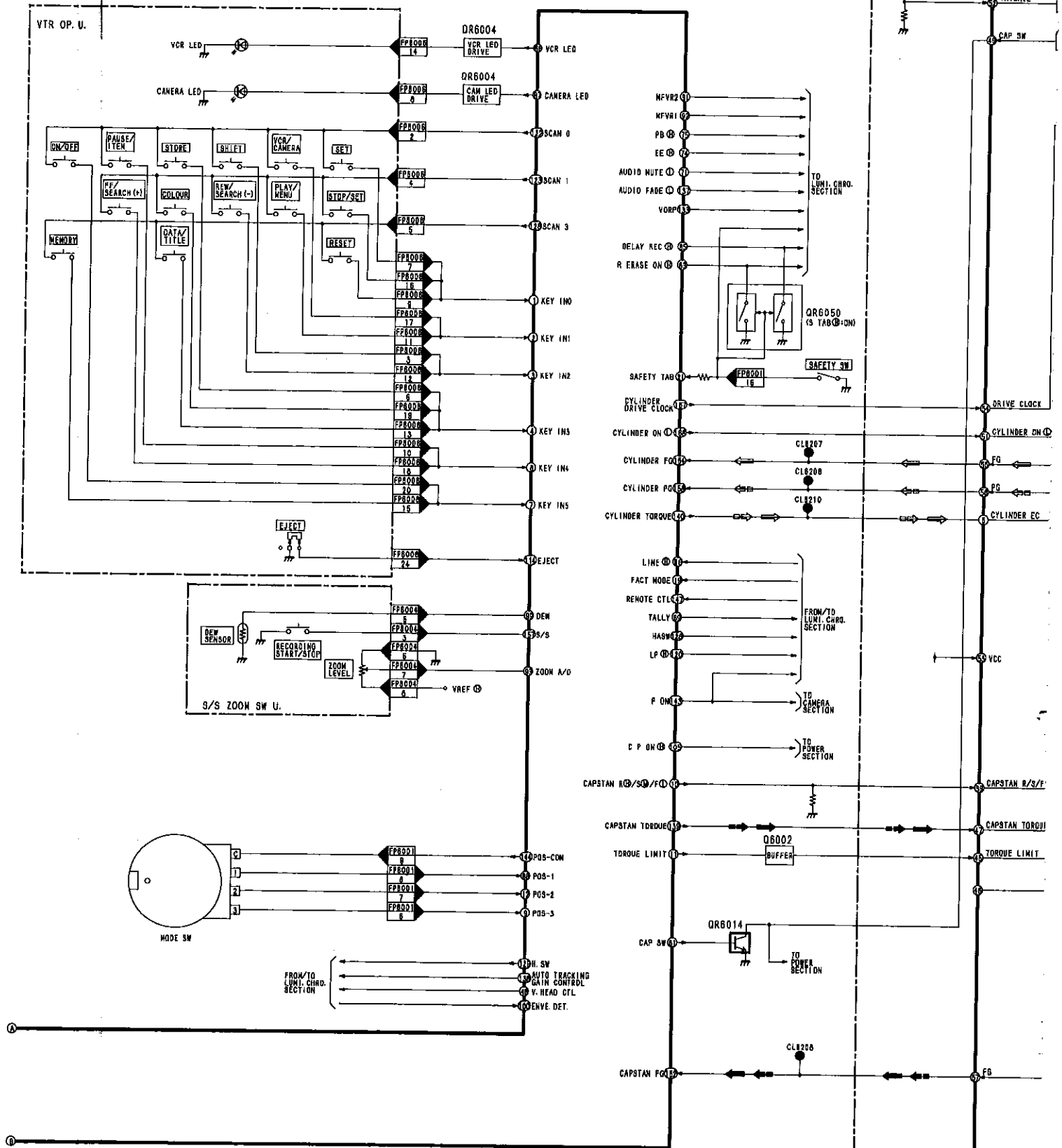


→ CAPSTAN SERVO SPEED LOOP ⇨ CYLINDER SERVO SPEED LOOP
 → CAPSTAN SERVO PHASE LOOP ⇨ CYLINDER SERVO PHASE LOOP

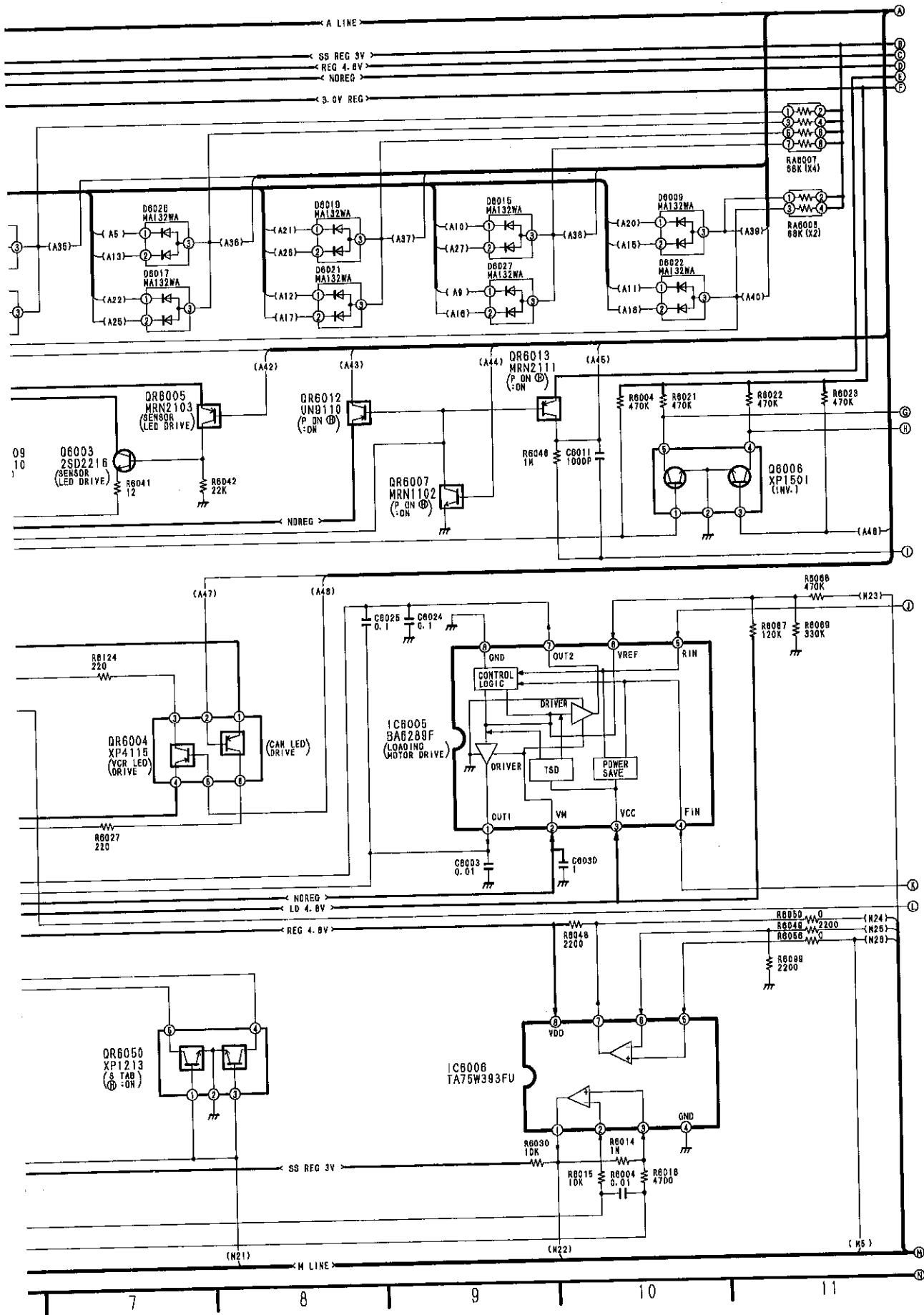
SYSTEM CTL
SECTION

SUB SERVO
SECTION

IC2201
CYLINDER MOTOR

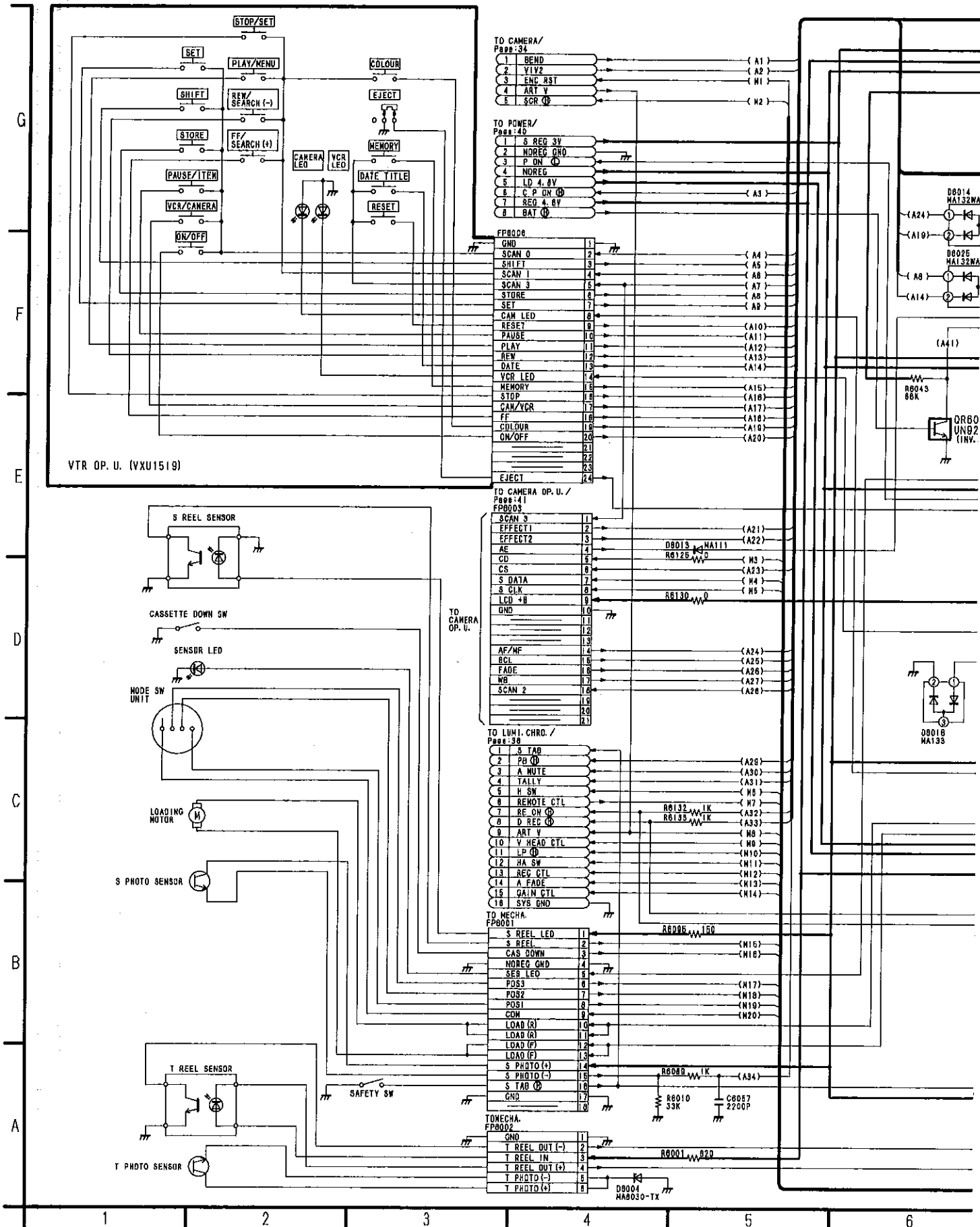


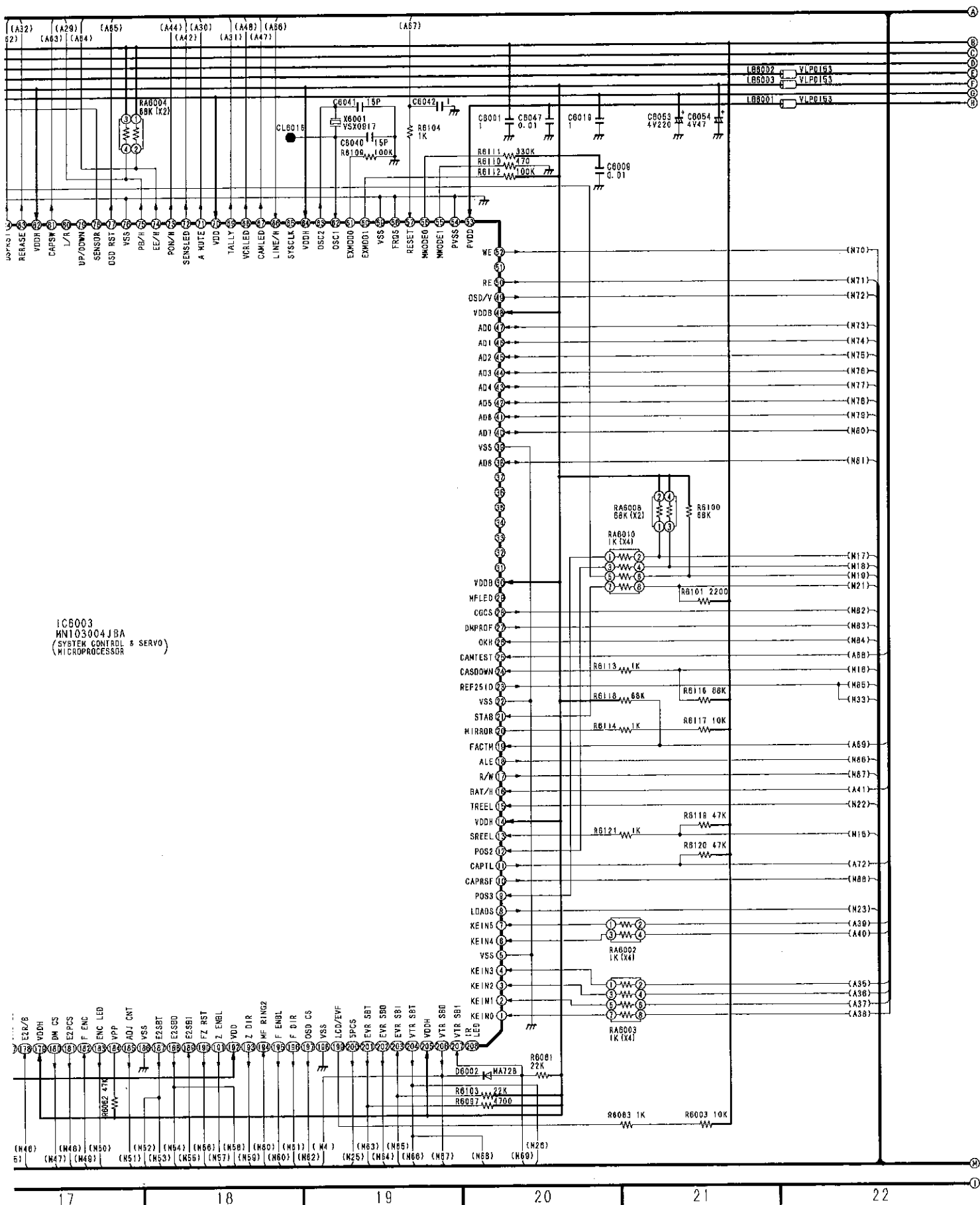
Ref No.	Q6001			Q6002			Q6003			Q6004			Q6006					
	E	C	B	E	C	B	E	C	B	1	2	3	1	2	3	4	5	
MODE																		
STOP	2.5	4.8	2.2	0	0.3	0	0.1	7.6	0	4.2	7.0	4.5	0.5	0	0	2.8	0	
PLAY	2.7	4.8	2.4	3.0	3.0	2.4	0.1	7.6	0	4.2	7.0	4.5	0.5	0	0	2.8	0	
FF	3.0	4.8	2.8	3.0	3.0	2.4	0.1	7.6	0	4.2	7.0	4.5	0.5	0	0	2.8	0	
Ref No.	QR6001			QR6004			QR6005			QR6007			QR6008					
	E	C	B	1	2	3	4	5	6	E	C	B	E	C	B	E	C	B
MODE																		
STOP	3.7	3.7	2.6	3.0	0	-1.3	3.0	3.0	2.9	3.0	0	3.0	0	0	2.9	3.3	3.4	4.8
PLAY	3.7	3.7	2.6	3.0	3.0	2.9	3.0	0	-1.0	3.0	0	3.0	0	0	2.9	3.3	3.4	4.8
FF	3.7	3.7	2.6	3.0	3.0	3.0	3.0	0	-1.0	3.0	0	3.0	0	0	2.9	3.3	3.4	4.8
Ref No.	QR6009			QR6012			QR6013			QR6014			QR6050					
	E	C	B	E	C	B	E	C	B	E	C	B	1	2	3	4	5	
MODE																		
STOP	0	3.0	0	7.0	7.0	0	3.0	3.0	0	0	7.3	0	0	0	0	0	0	
PLAY	0	3.0	0	7.0	7.0	0	3.0	3.0	0	0	7.3	0	0	0	0	0	0	
FF	0	3.0	0	7.0	7.0	0	3.0	3.0	0	0	7.3	0	0	0	0	0	0	



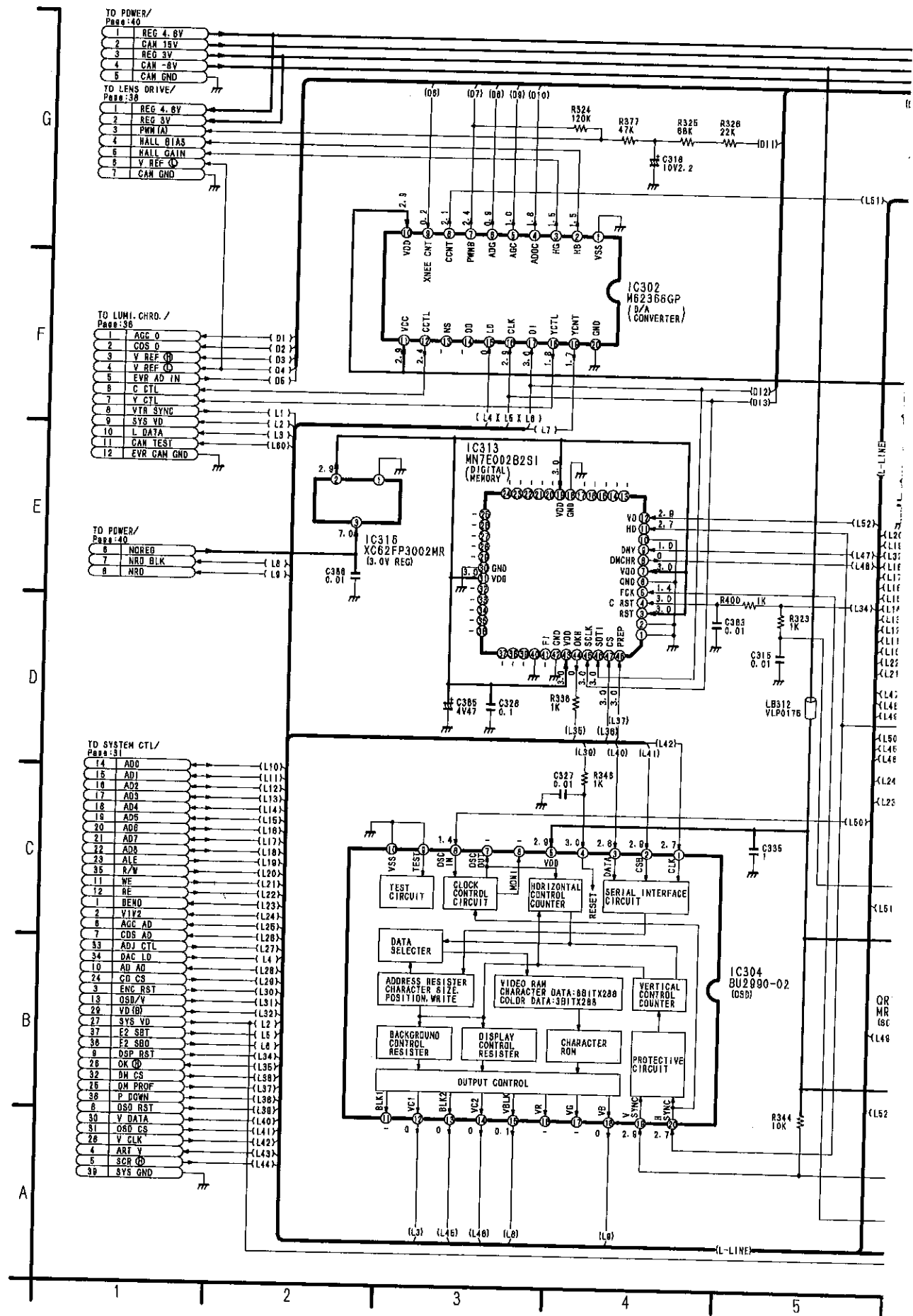
9 SCHEMATIC DIAGRAM

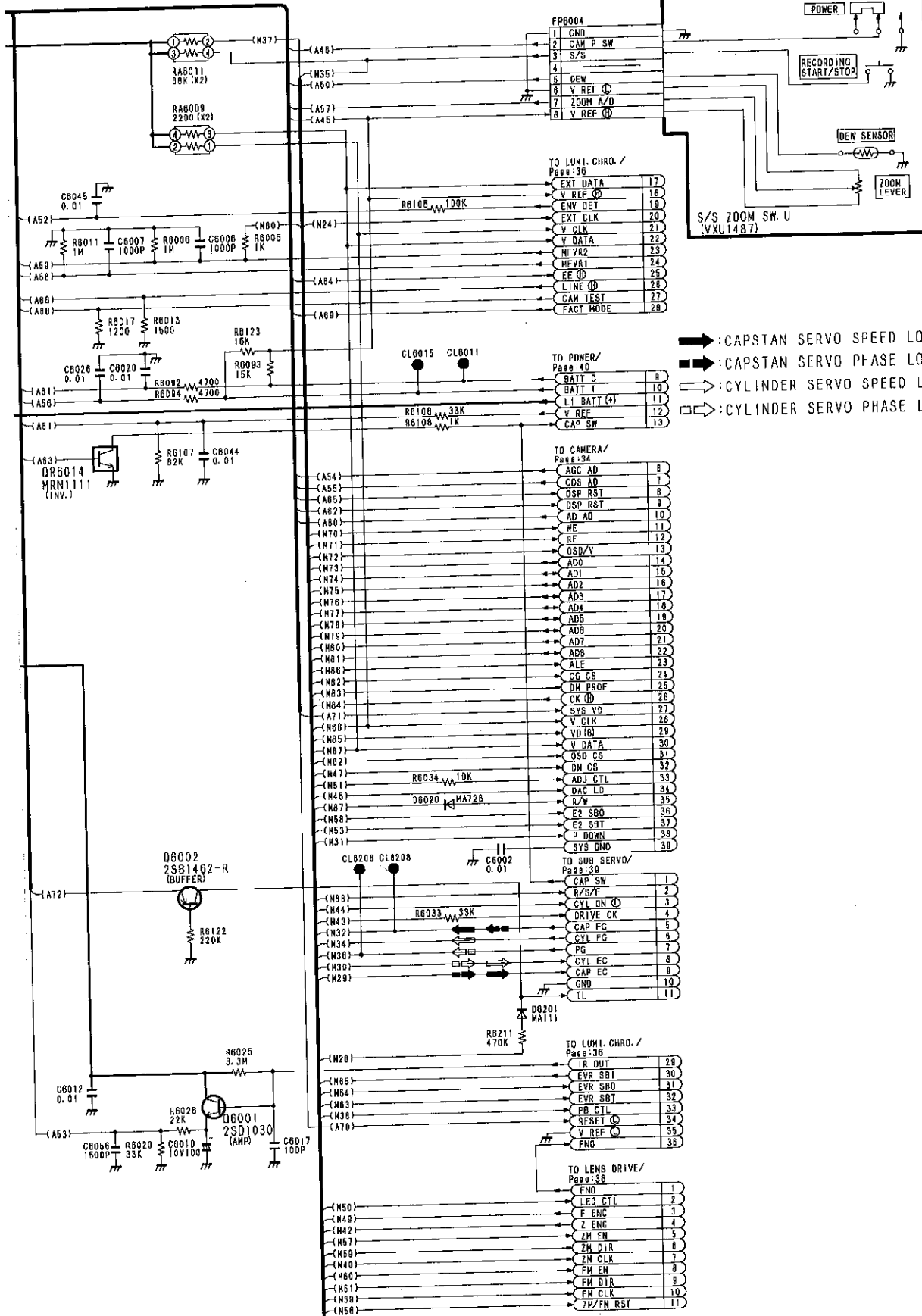
9.1. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM

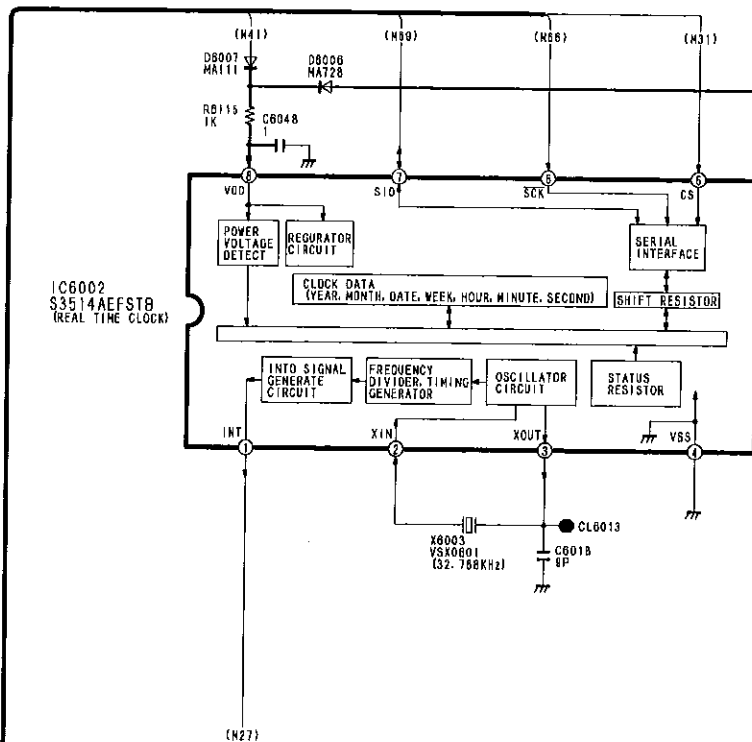
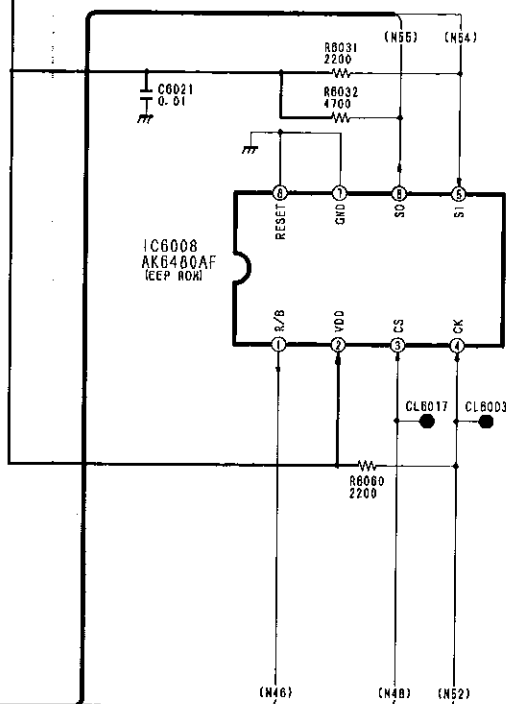
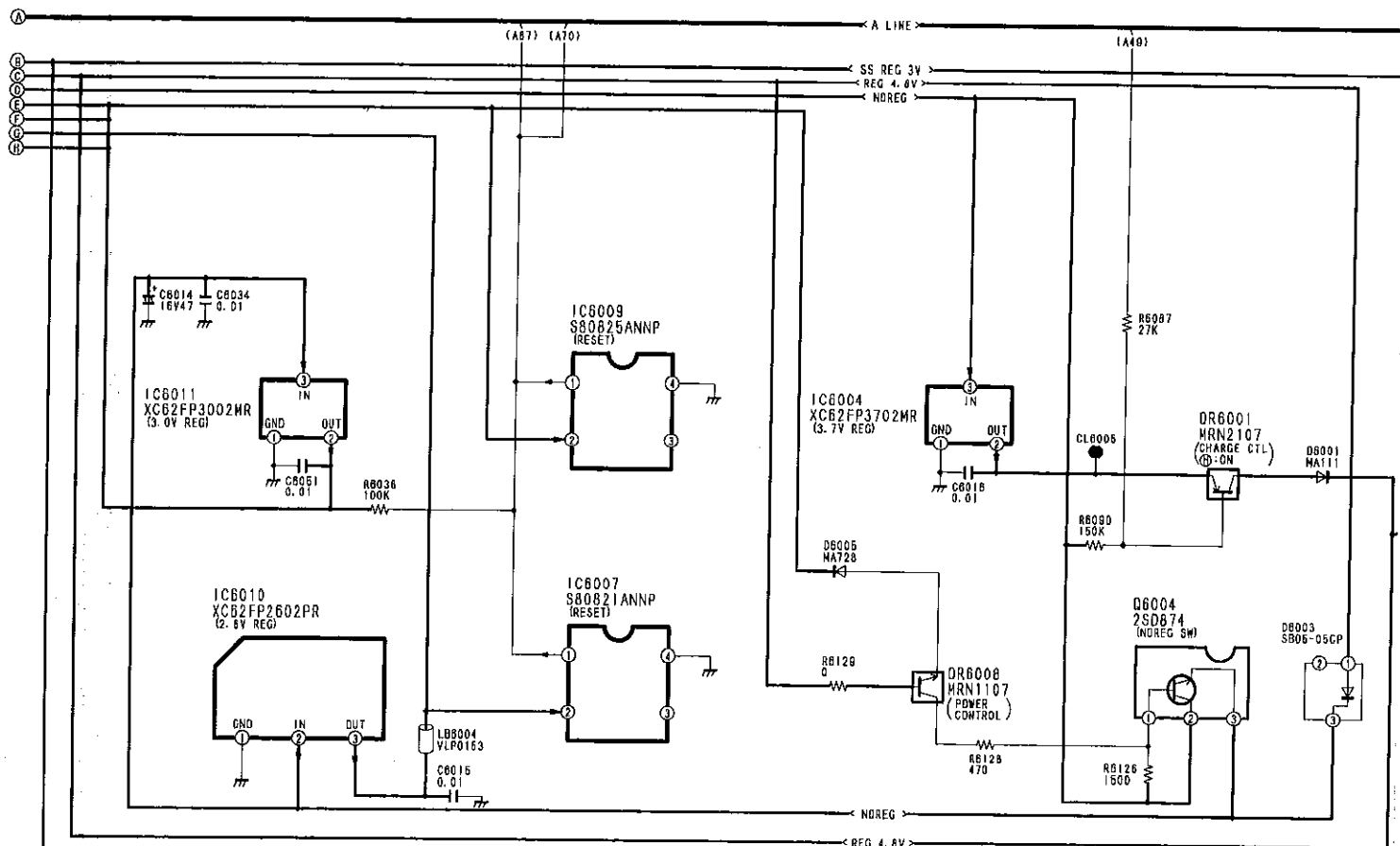




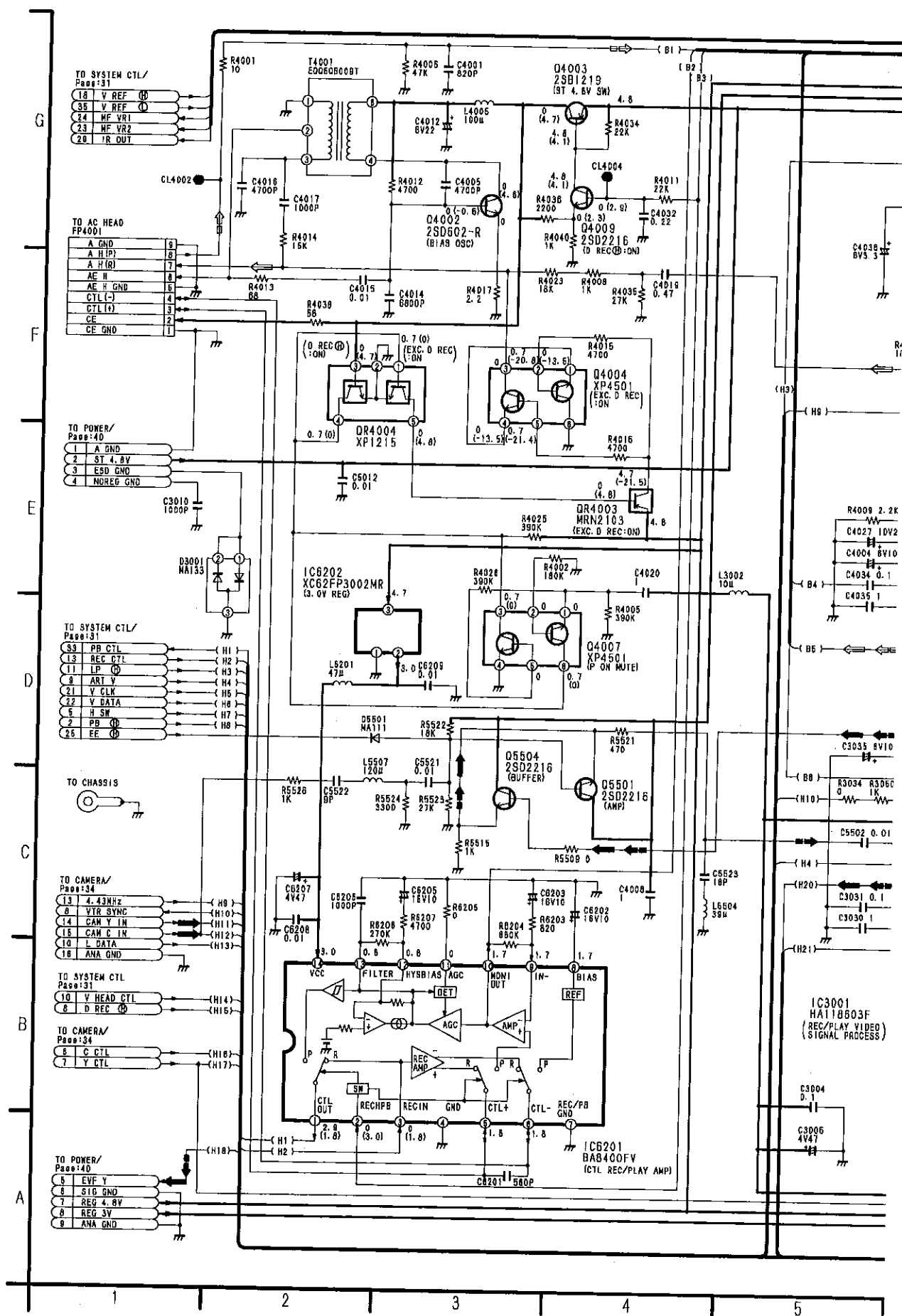
9.2. CAMERA SCHEMATIC DIAGRAM

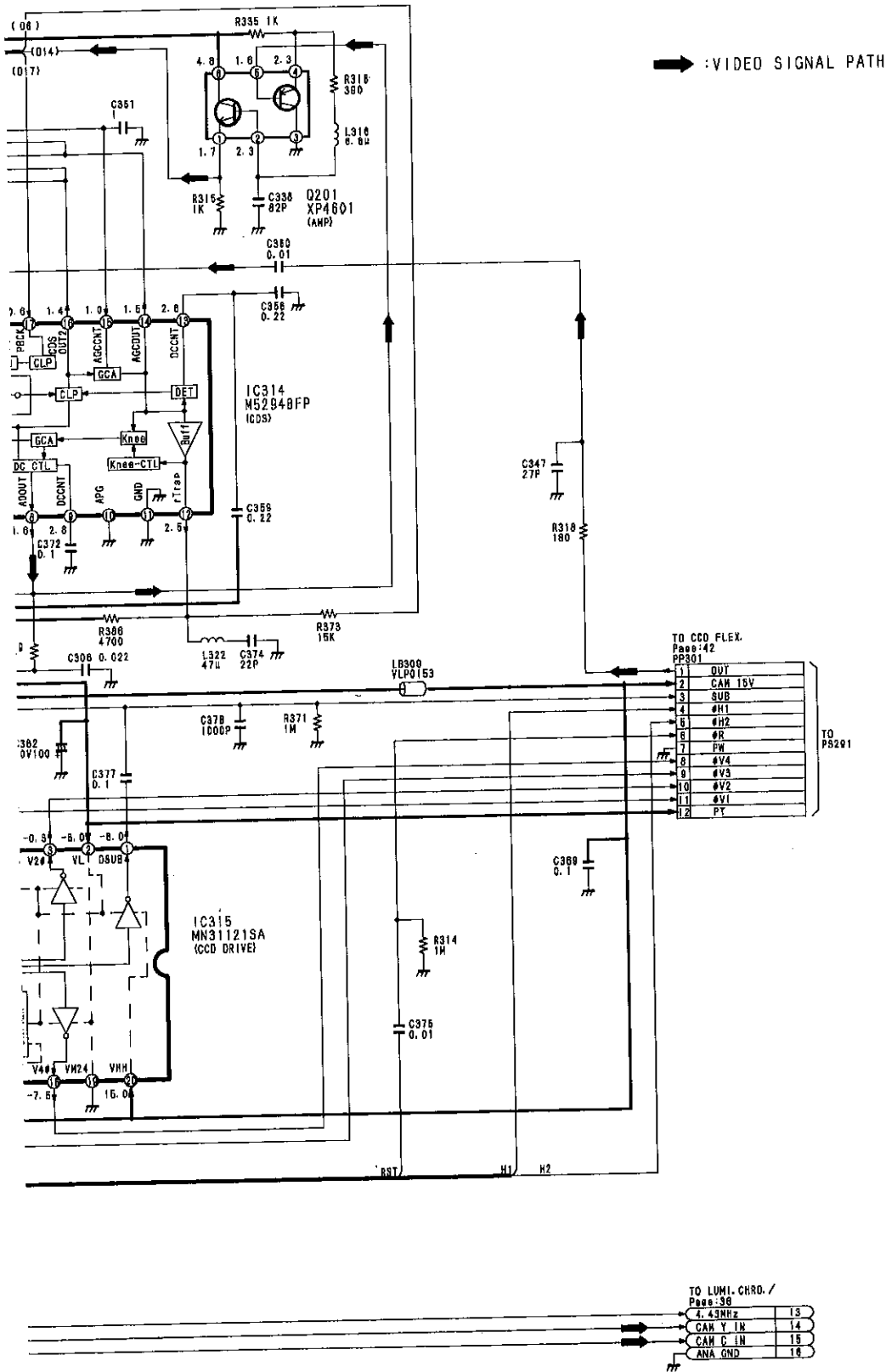






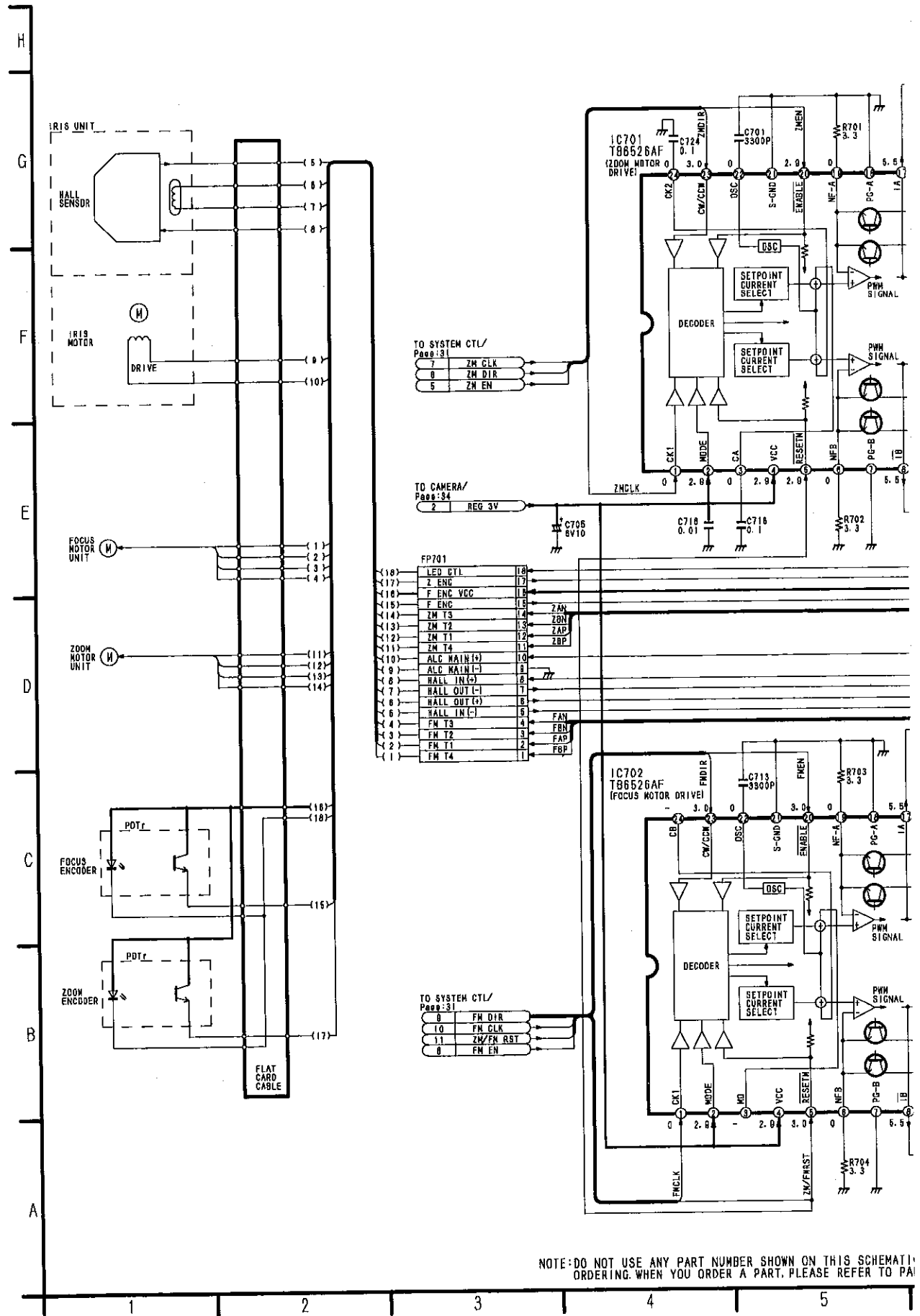
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHI



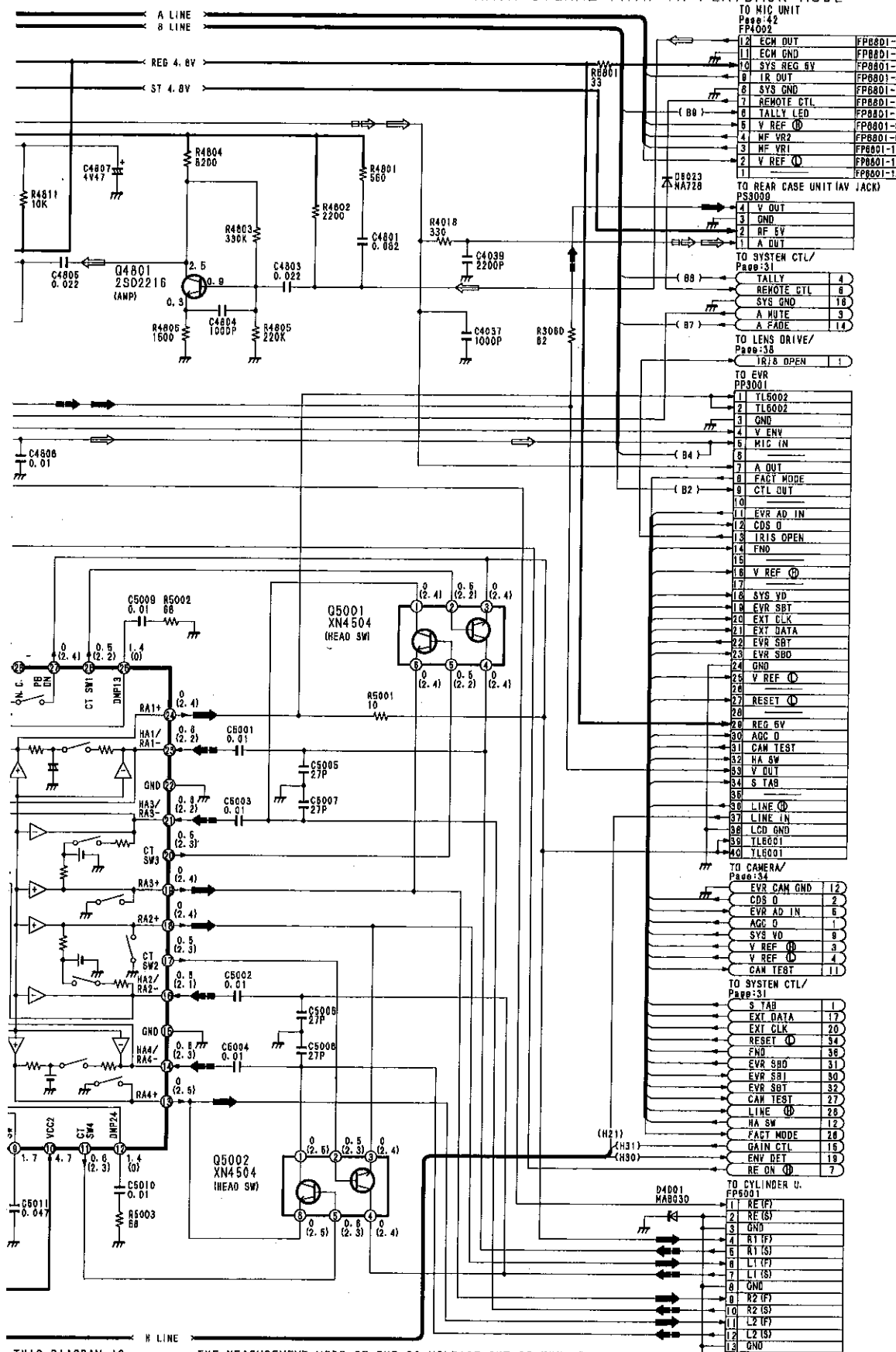


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON
THIS DIAGRAM IS STOP MODE WITH AIM THE
CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

9.4. LENS DRIVE SCHEMATIC DIAGRAM

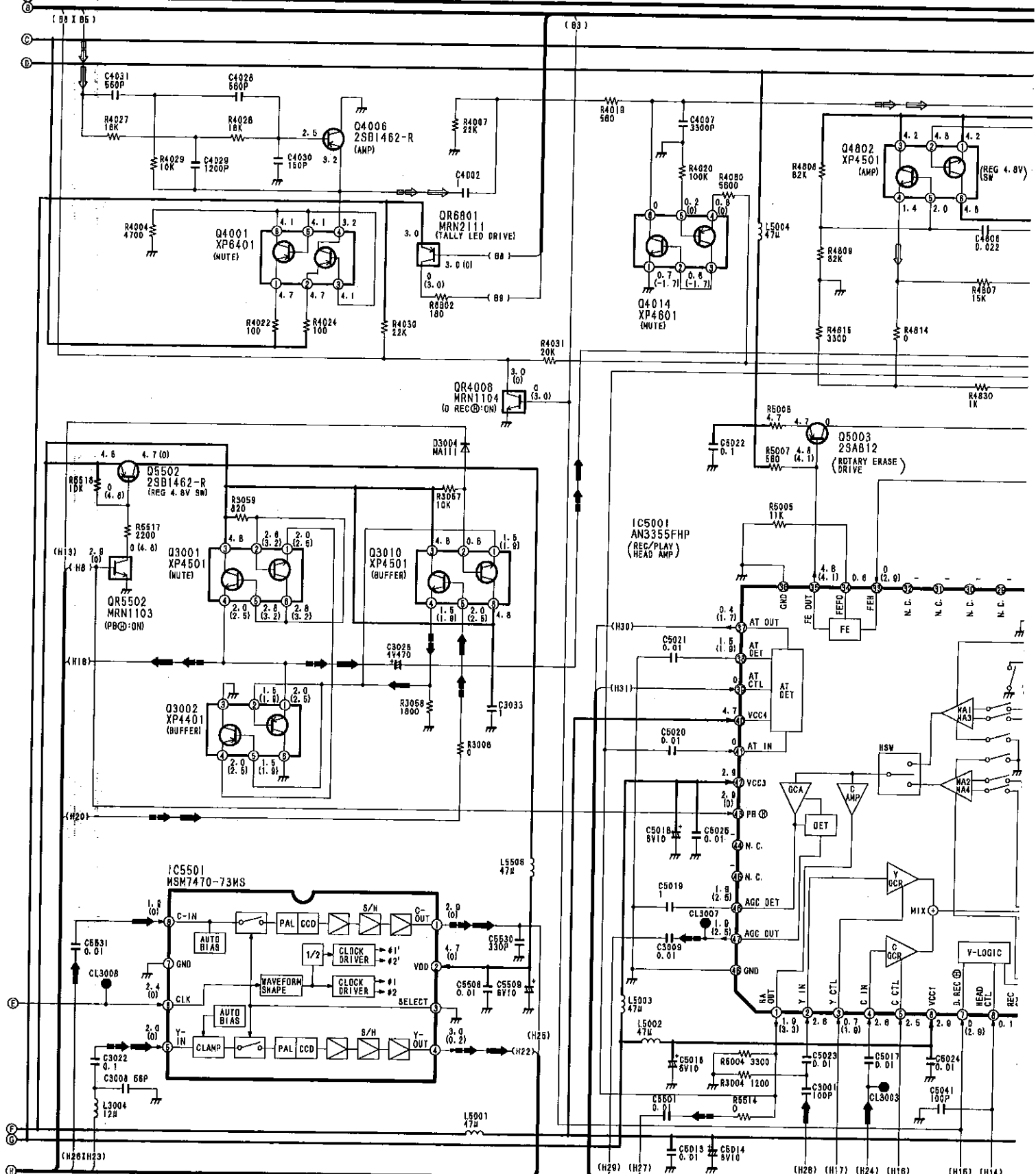


MAIN SIGNAL PATH IN REC MODE ⇐⇒ : AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



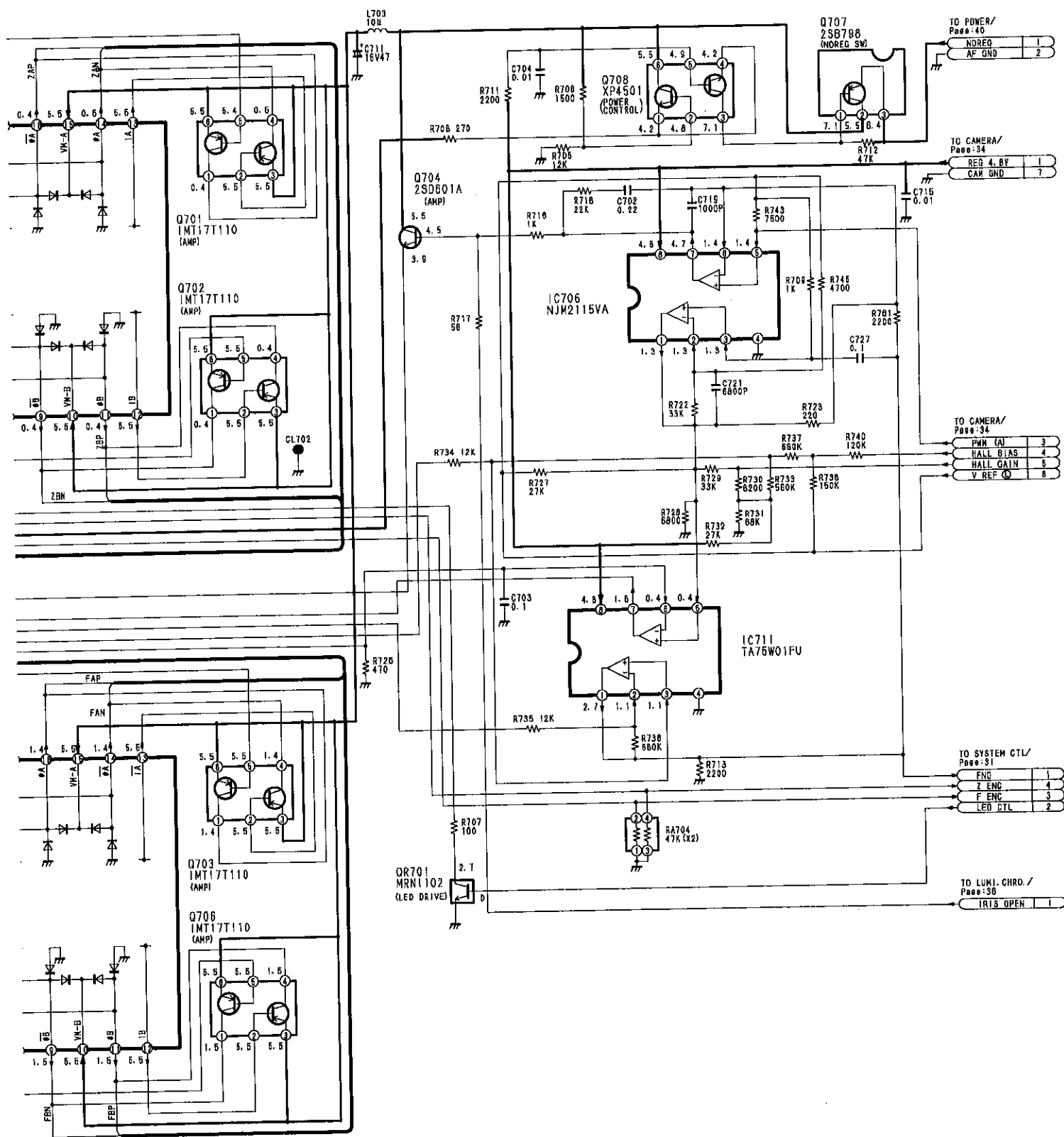
THIS DIAGRAM IS THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

→ : VIDEO MAIN SIGNAL PATH IN REC MODE → : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE → : AUDIO 1



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

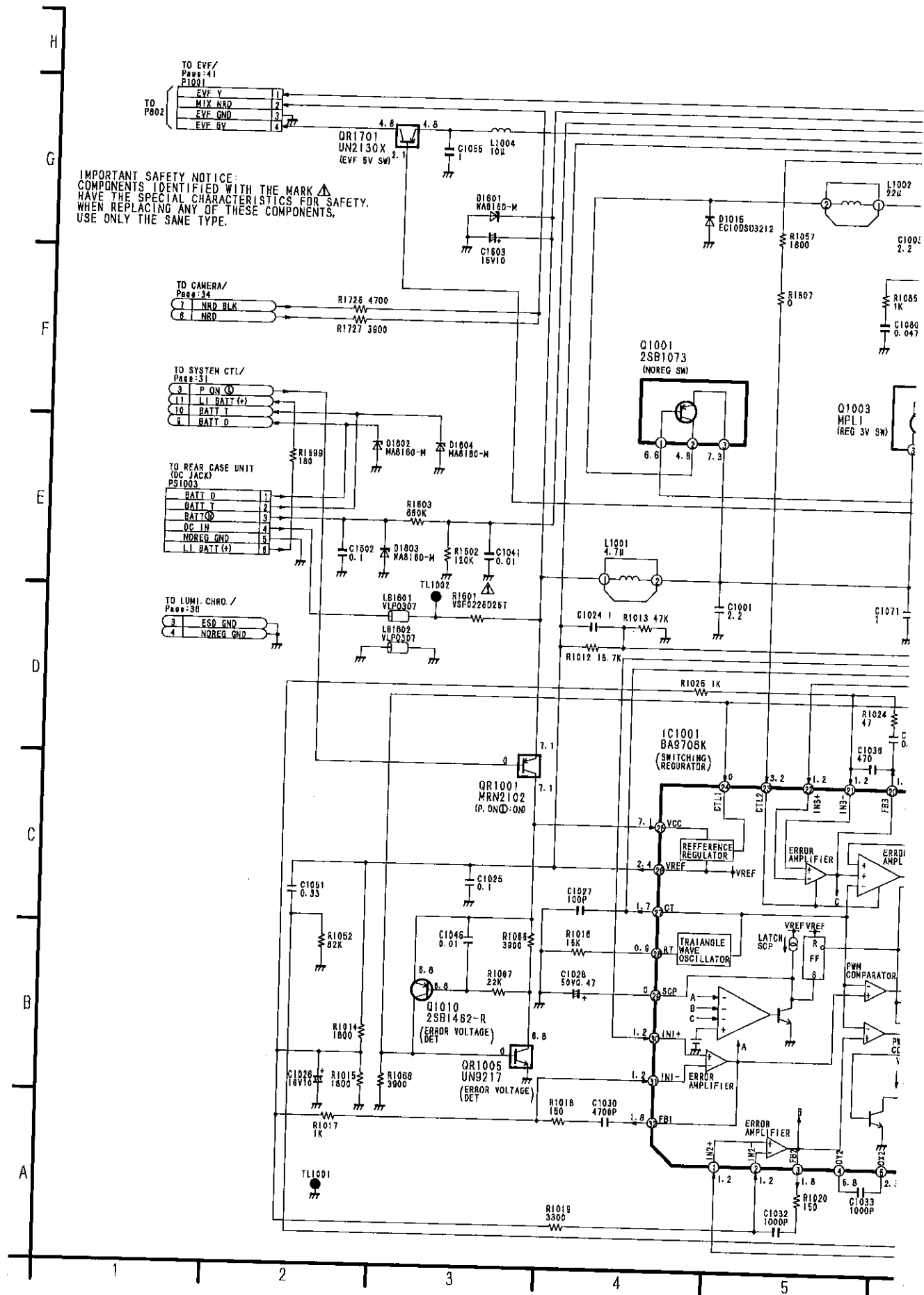
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART. ISR MOD



C DIAGRAM FOR
RTS LIST.

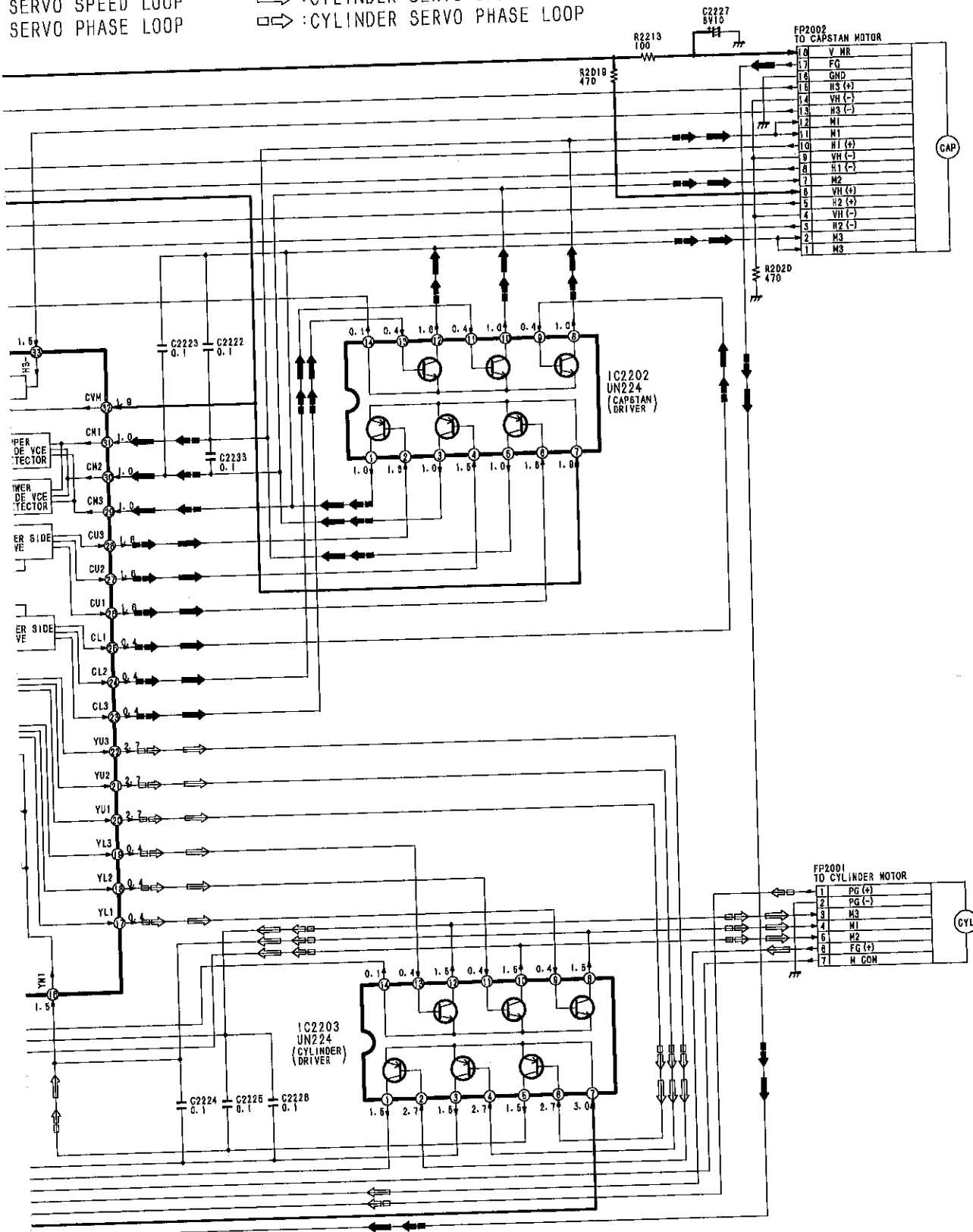
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE
WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

9.6. POWER SCHEMATIC DIAGRAM



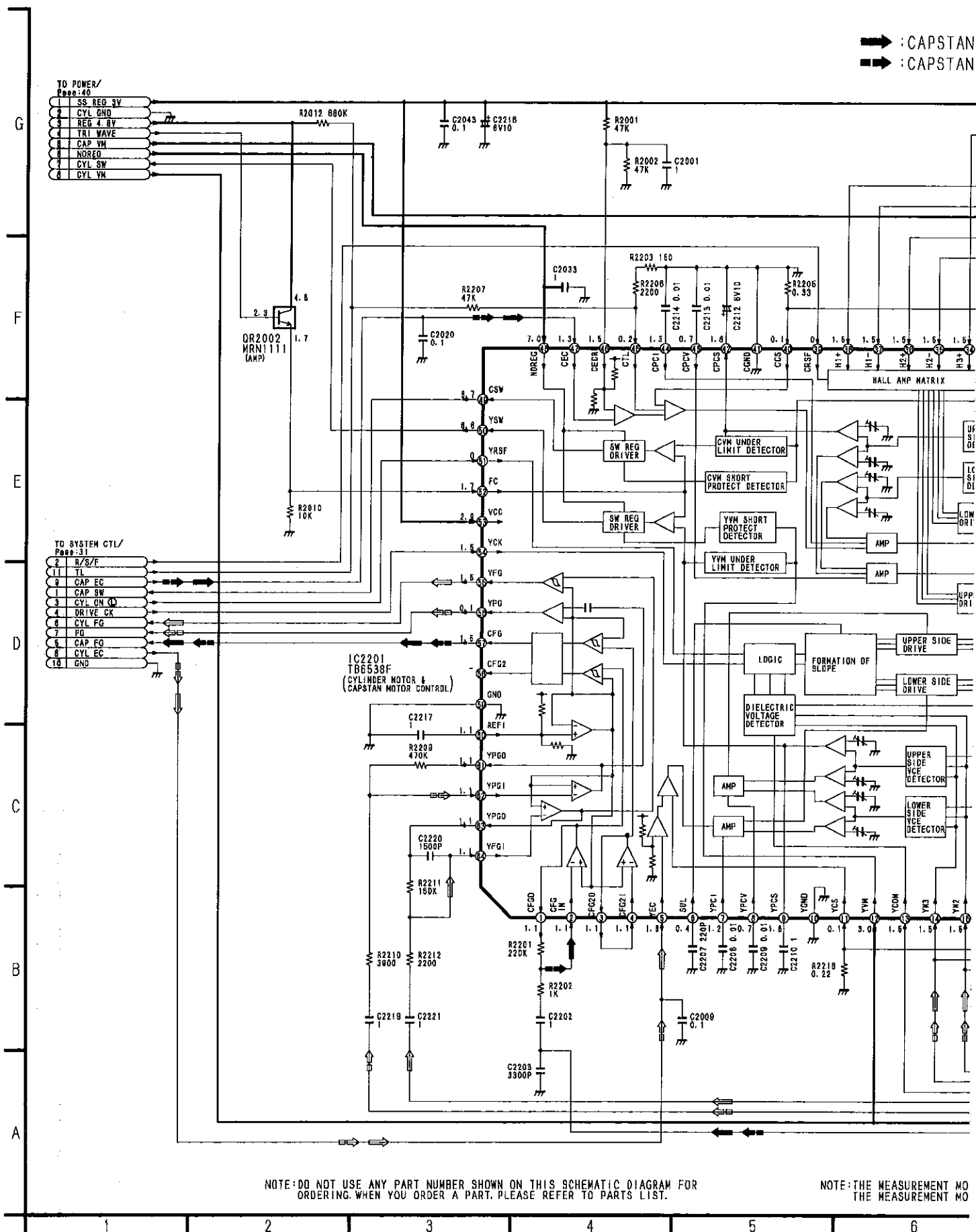
SERVO SPEED LOOP
SERVO PHASE LOOP

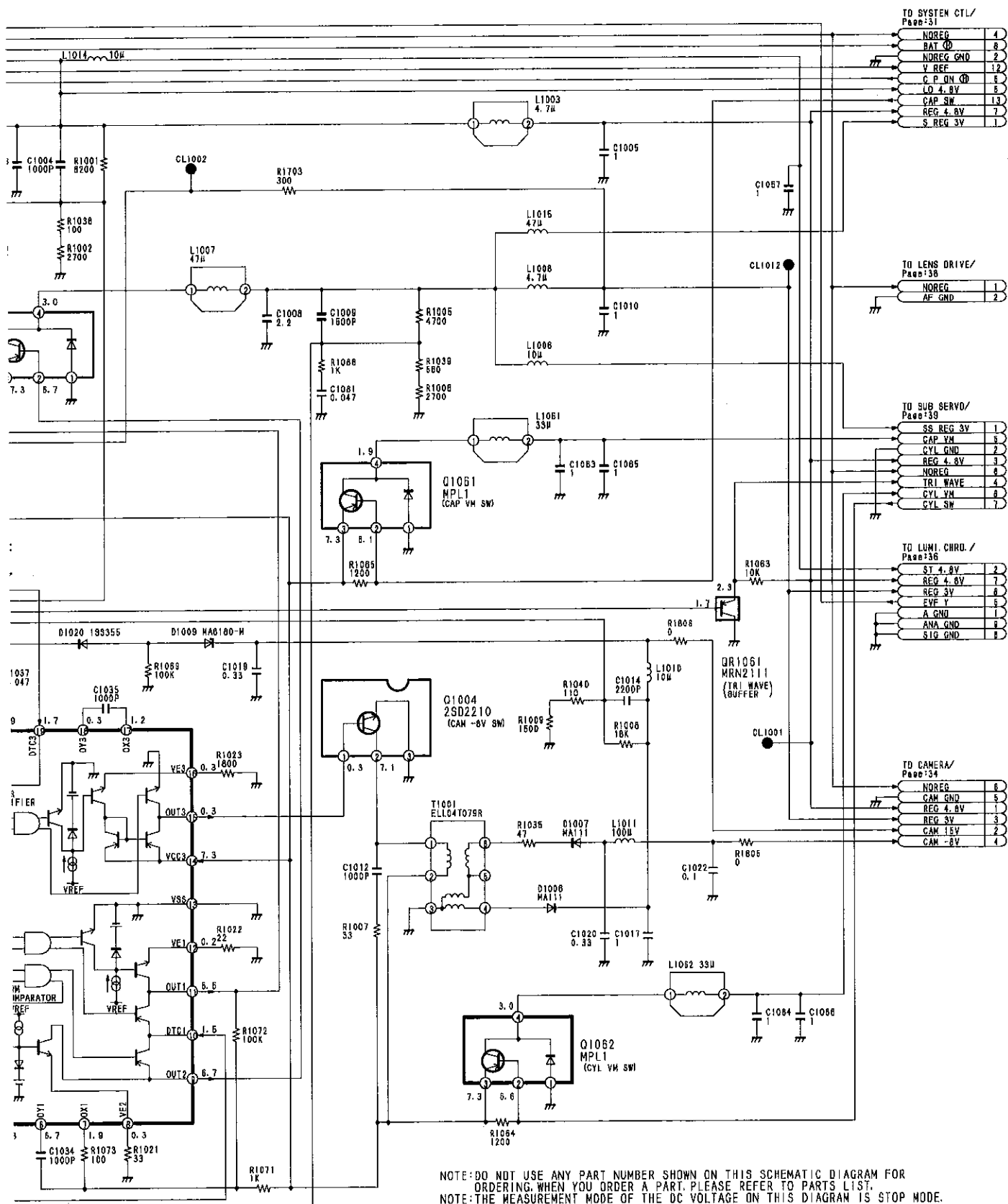
⇒ : CYLINDER SERVO SPEED LOOP
⇨ : CYLINDER SERVO PHASE LOOP



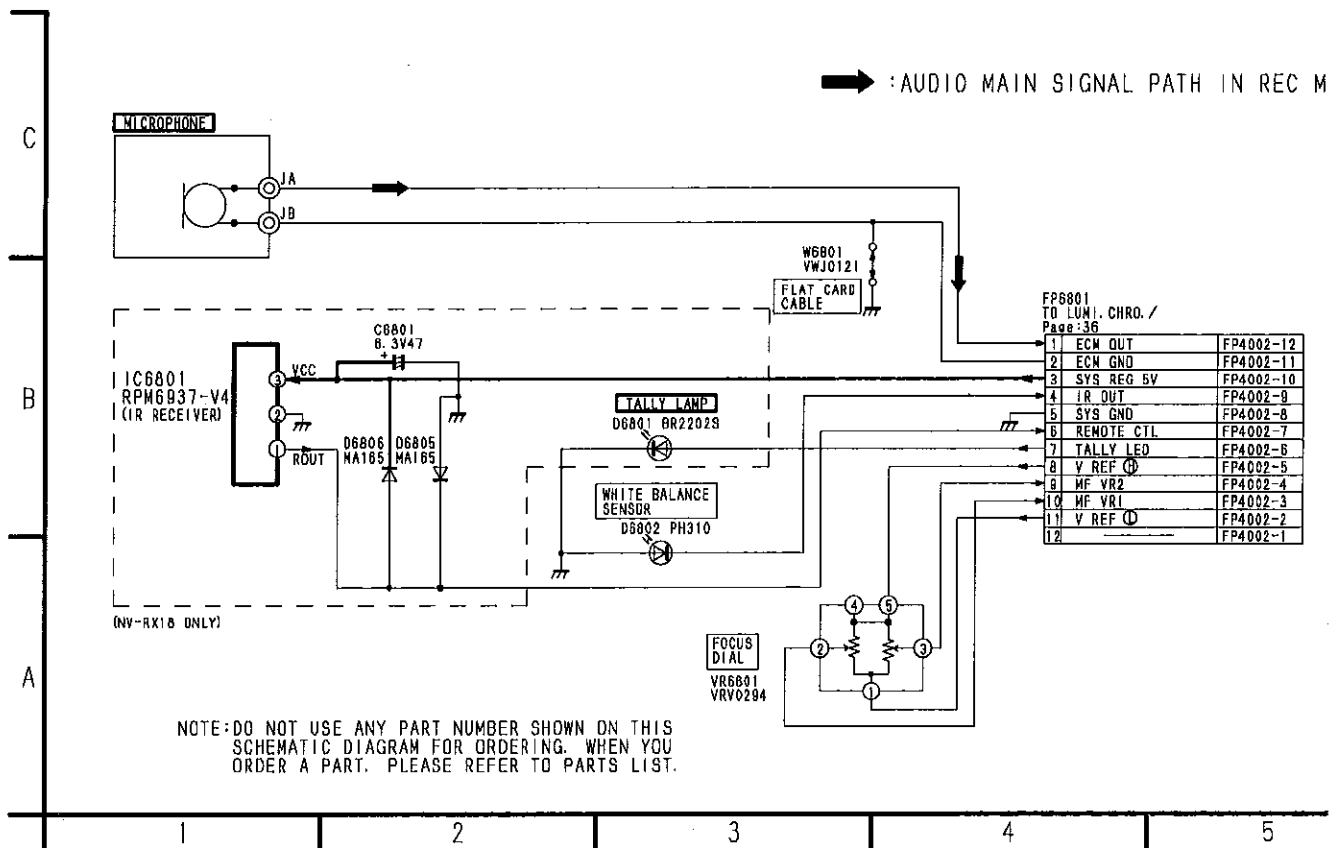
DE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
DE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE. (SP MODE)

9.5. SUB SERVO SCHEMATIC DIAGRAM

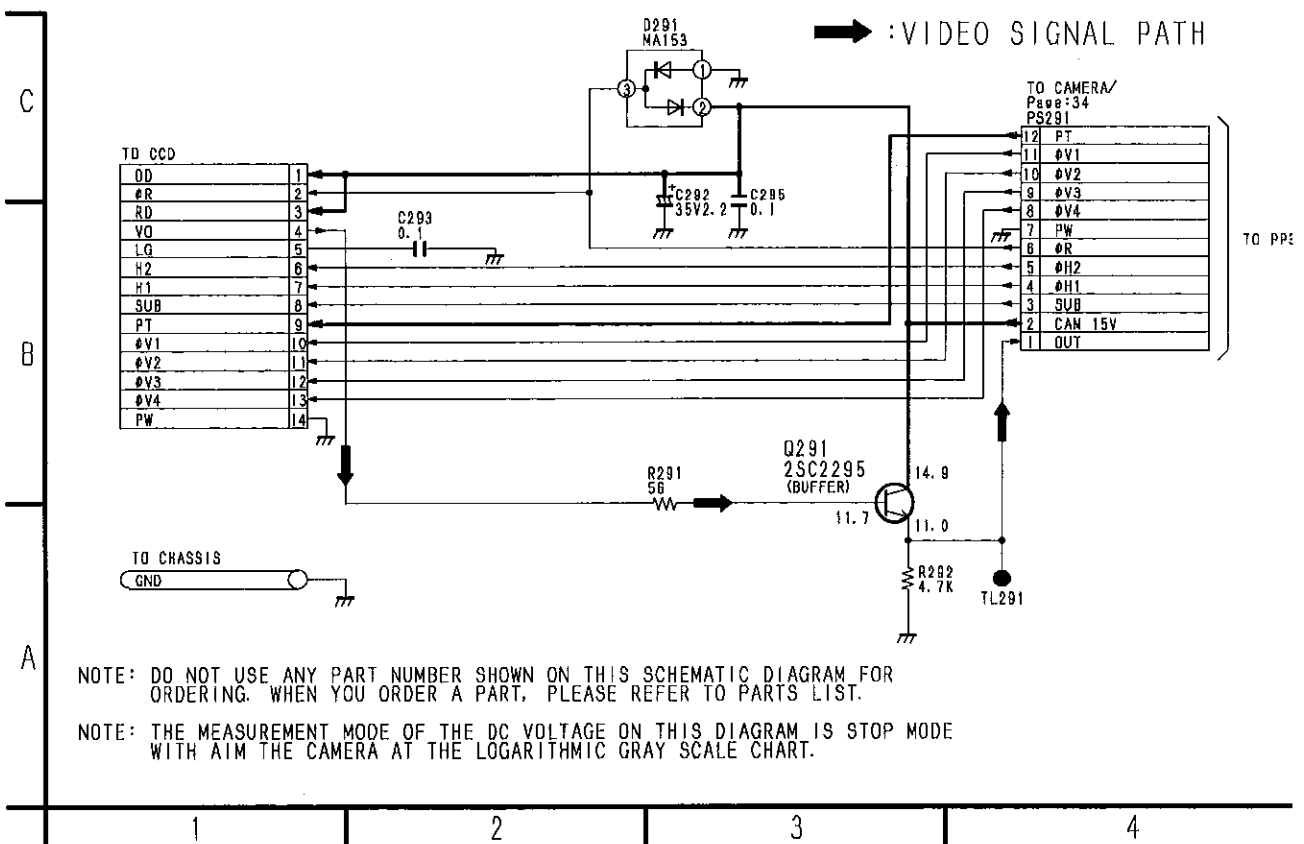


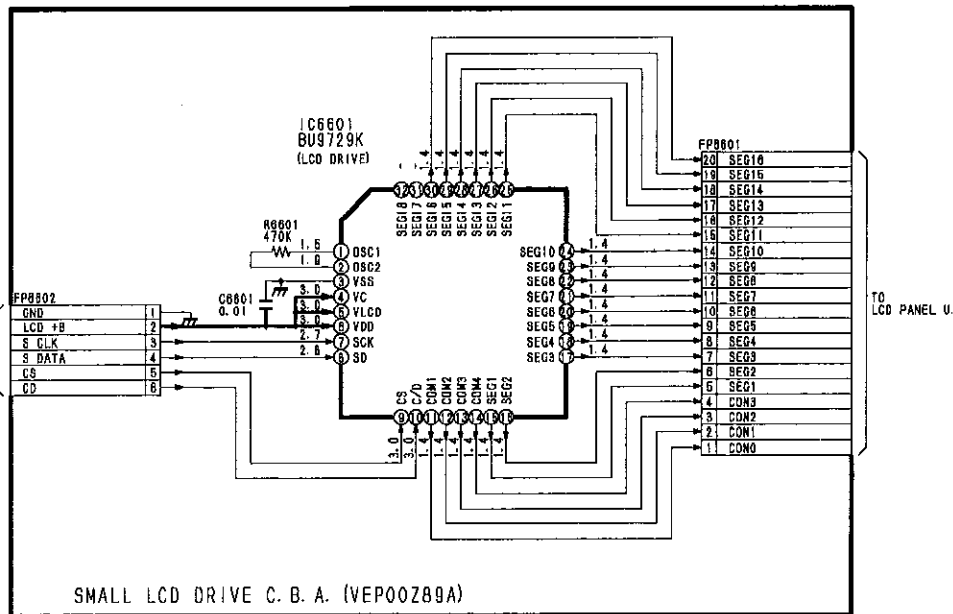
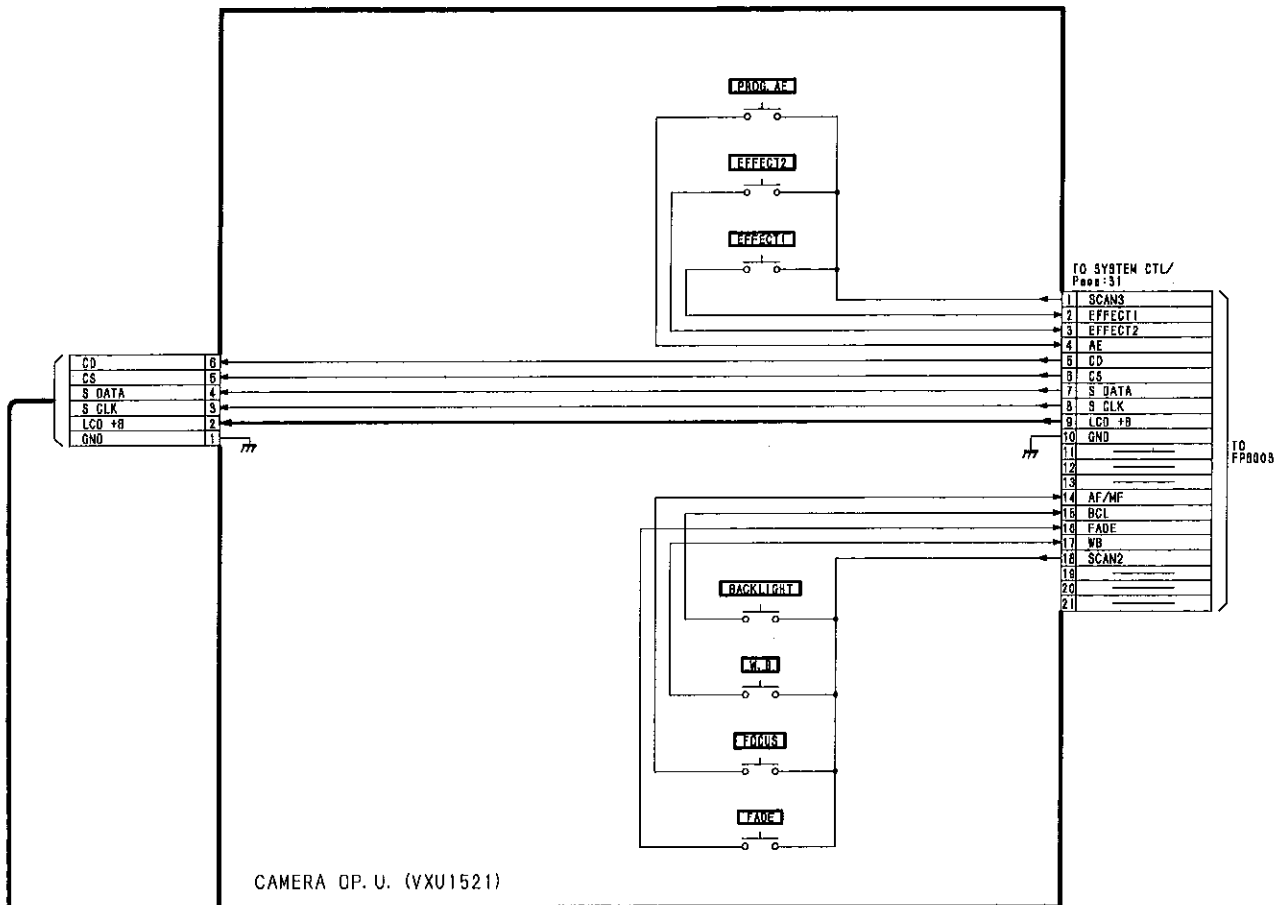


9.9. MIC UNIT SCHEMATIC DIAGRAM



9.10. CCD FLEX. CARD SCHEMATIC DIAGRAM





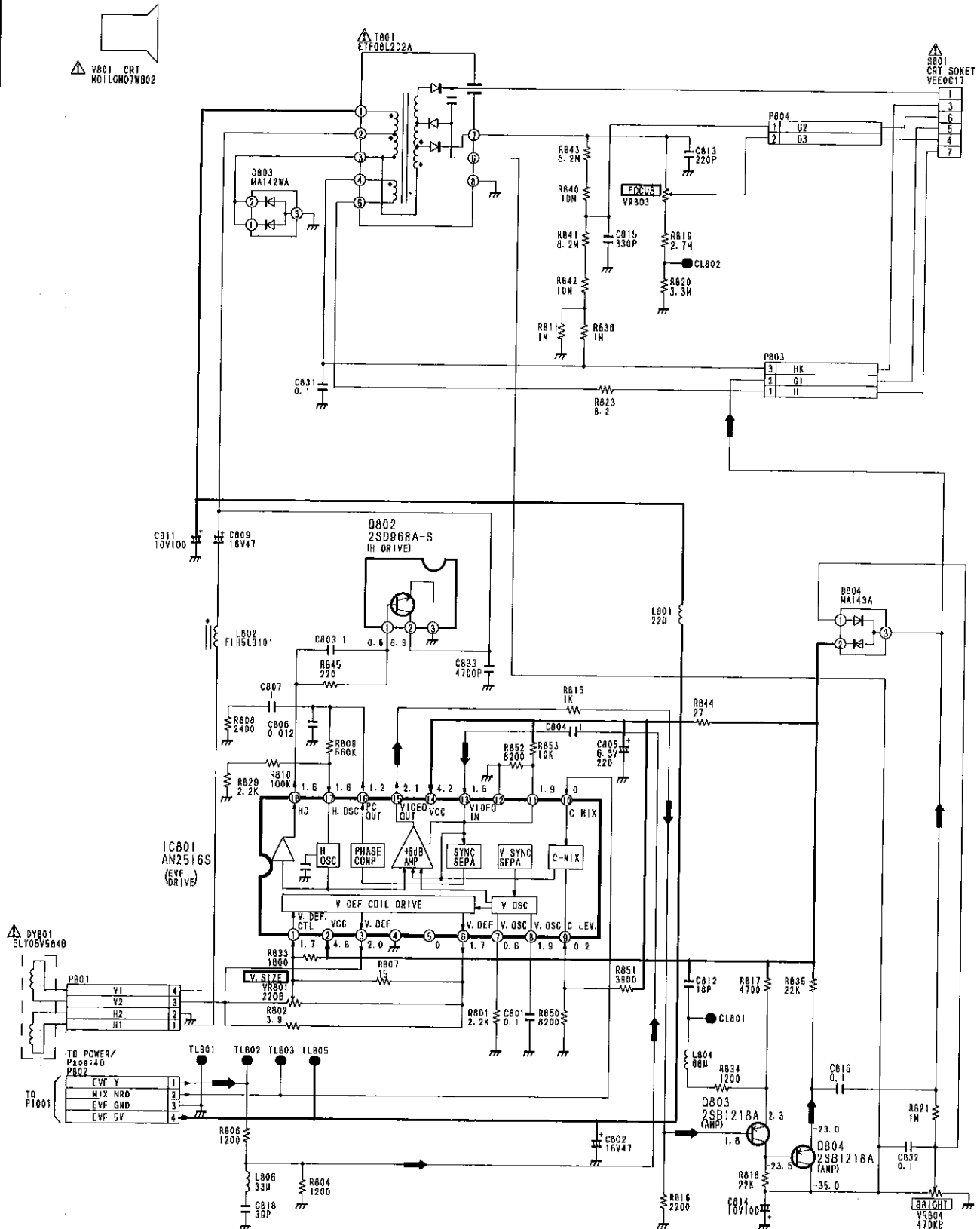
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS
SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU
ORDER A PART, PLEASE REFER TO PARTS LIST.

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

9.7. E.V.F. SCHEMATIC DIAGRAM

9.8.

→ VIDEO MAIN SIGNAL PATH



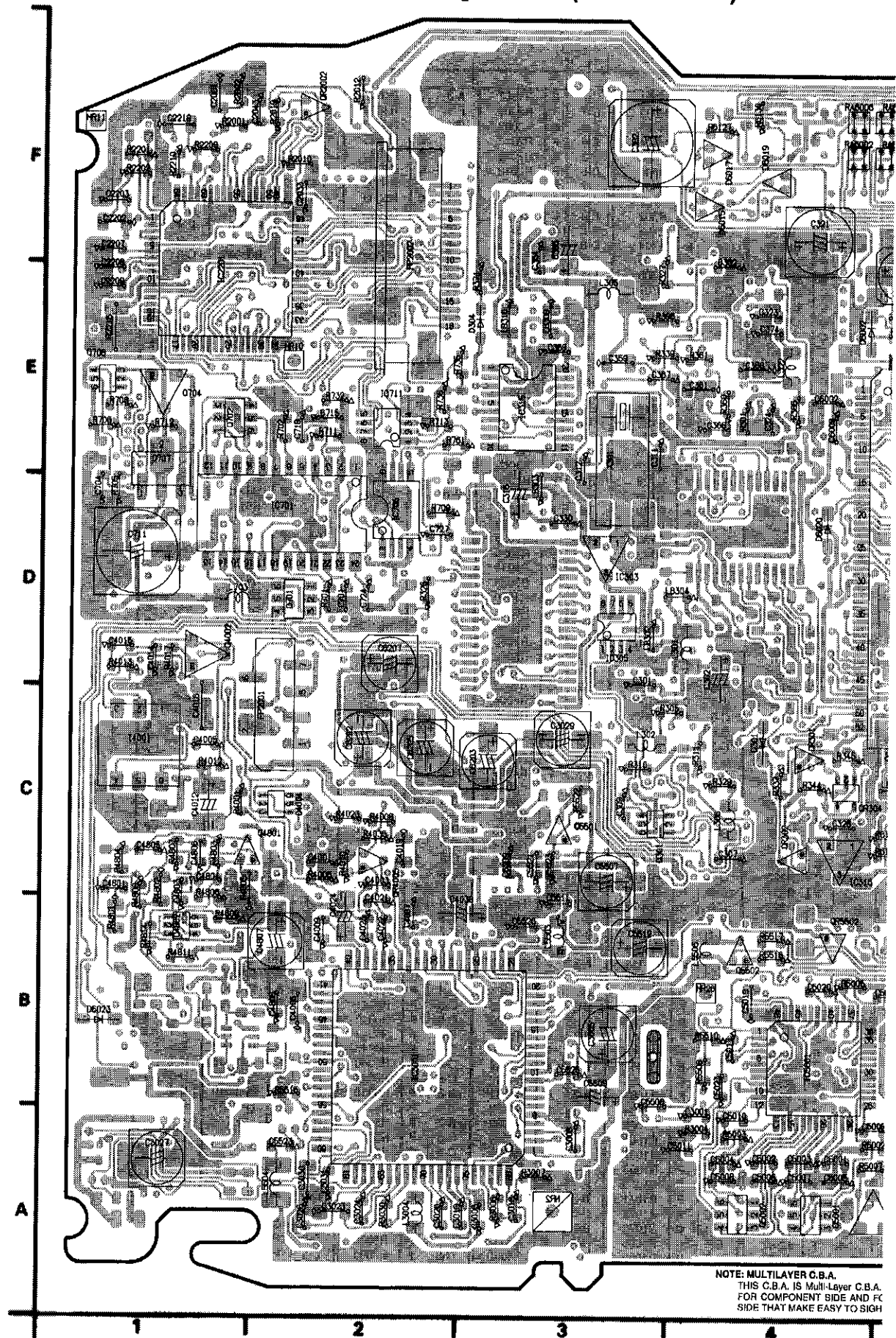
ODE

7

101

7

10.2. CAMERA/MAIN [COMPONENT SIDE] C.B.A. (VEP23474A)

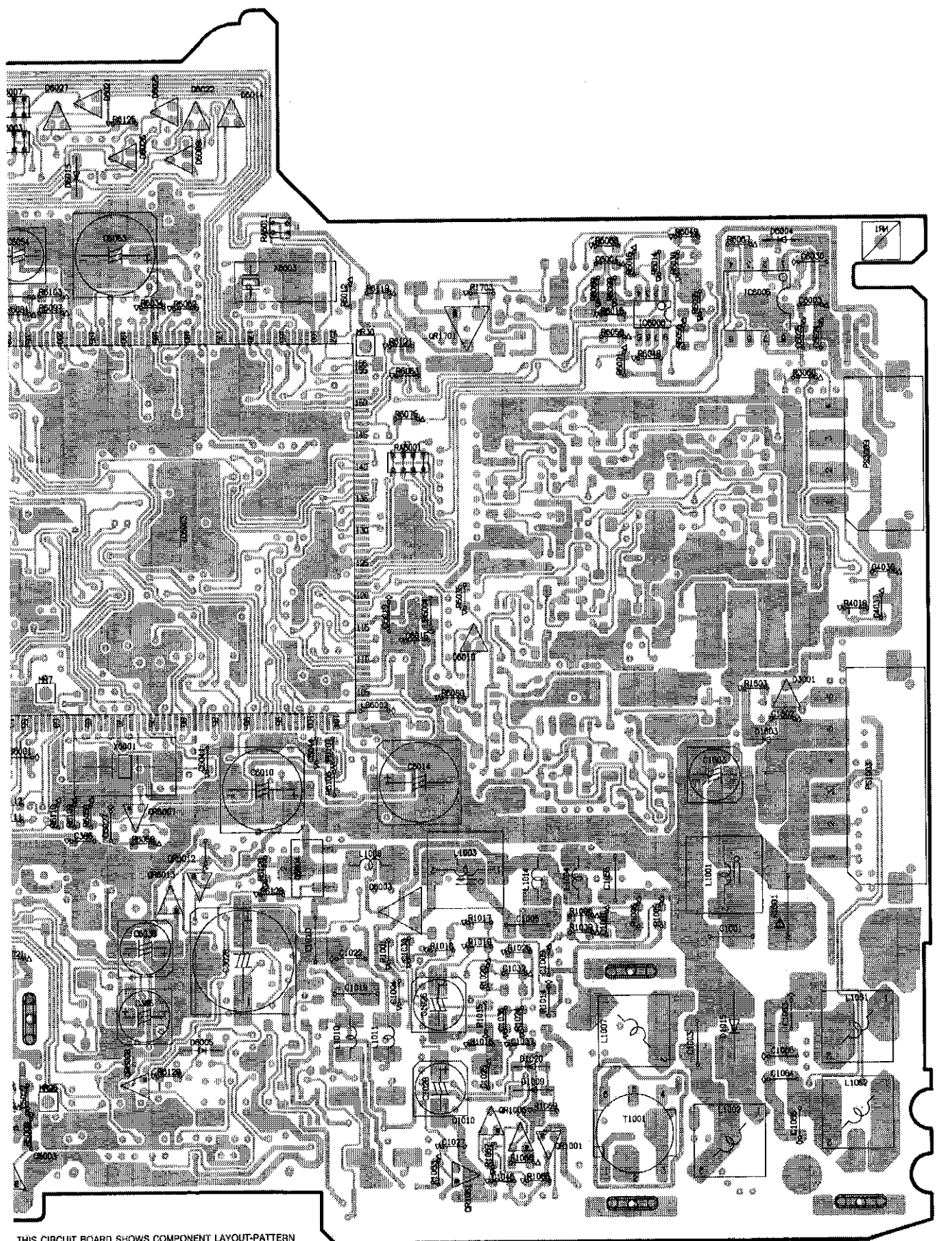


B-2	C	C6019	D-6	C	R381	D-7	F	R1807	A-3	F	R4809	B-1	C	R6081	E-5	C
B-8	F	C6020	C-4	F	R382	D-7	F	R2001	F-1	C	R4811	B-1	C	R6082	D-3	F
B-7	F	C6021	E-4	F	R386	E-4	C	R2002	F-1	C	R4814	B-1	C	R6083	D-4	F
B-8	F	C6024	E-9	C	R394	E-6	F	R2010	F-2	C	R4815	C-8	F	R6084	C-4	F
B-8	F	C6025	E-8	C	R396	E-3	C	R2012	F-2	C	R4830	B-8	F	R6085	D-4	F
C-8	F	C6026	D-4	F	R400	C-6	F	R2019	F-2	C	R5001	B-5	F	R6086	D-4	F
B-8	F	C6027	C-5	C	R401	E-7	F	R2020	F-7	F	R5002	A-4	C	R6087	E-4	F
B-8	F	C6028	C-4	F	R701	D-2	C	R2201	F-1	C	R5003	A-4	C	R6088	C-4	F
C-8	F	C6029	D-4	F	R702	E-2	C	R2202	F-1	C	R5004	B-6	F	R6089	D-4	F
B-8	F	C6030	E-9	C	R703	E-8	F	R2203	F-8	F	R5005	B-4	C	R6090	E-4	F
B-8	F	C6031	D-4	F	R704	D-8	F	R2205	F-8	F	R5007	A-4	C	R6092	C-3	F
B-7	F	C6032	D-4	F	R705	D-1	C	R2206	F-7	F	R5008	A-5	C	R6093	C-3	F
D-9	C	C6033	E-4	F	R706	E-1	C	R2207	F-7	F	R5500	B-7	F	R6094	D-4	F
B-3	C	C6034	C-3	F	R707	E-9	F	R2209	F-1	C	R5502	C-6	F	R6095	E-8	C
D-9	C	C6038	B-5	C	R708	E-1	C	R2210	F-9	F	R5505	B-7	F	R6097	E-5	C
C-1	C	C6039	C-4	F	R709	D-2	C	R2211	F-9	F	R5508	B-4	C	R6099	E-8	C
C-1	C	C6040	C-5	F	R711	E-2	C	R2212	F-9	F	R5509	C-7	F	R6100	D-4	F
C-1	C	C6041	C-6	C	R712	E-1	C	R2213	F-8	F	R5510	B-4	C	R6101	D-5	F
C-1	C	C6042	C-5	F	R713	E-2	C	R2216	E-1	C	R5513	B-7	F	R6103	E-5	C
C-1	C	C6044	C-6	C	R716	E-7	F	R3001	B-7	F	R5514	A-7	F	R6104	C-5	F
B-2	C	C6045	C-4	F	R717	E-8	F	R3004	A-4	C	R5515	B-2	C	R6105	C-4	F
B-2	C	C6047	C-5	F	R718	E-7	F	R3005	A-7	F	R5516	B-4	C	R6108	C-6	C
A-4	C	C6048	E-4	F	R722	D-8	F	R3006	A-3	C	R5517	B-4	C	R6107	C-6	C
A-4	C	C6051	D-3	F	R723	E-7	F	R3007	A-3	C	R5521	A-8	C	R6108	C-4	F
A-4	C	C6053	F-5	C	R726	E-8	F	R3008	B-4	F	R5522	C-3	C	R6109	C-5	C
A-4	C	C6054	F-5	C	R727	E-8	F	R3009	A-7	F	R5523	C-3	C	R6110	C-5	C
A-4	C	C6056	C-4	F	R728	E-8	F	R3010	A-7	F	R5524	C-7	F	R6111	C-5	C
A-4	C	C6057	C-4	F	R729	E-8	F	R3020	B-6	F	R5526	C-6	F	R6112	C-5	C
A-4	C	C6058	C-4	F	R730	E-8	F	R3022	A-7	F	R5527	B-7	F	R6113	D-4	F
A-4	C	C6201	C-8	F	R731	E-8	F	R3023	A-7	F	R6001	E-8	C	R6114	D-5	F
A-4	C	C6202	C-2	C	R732	E-2	C	R3025	B-7	F	R6002	D-4	F	R6115	E-4	F
A-4	C	C6203	C-3	C	R733	E-7	F	R3026	B-7	F	R6003	D-4	F	R6116	D-4	F
A-4	C	C6205	C-2	C	R734	E-7	F	R3030	A-2	C	R6004	D-3	F	R6117	D-5	F
B-5	F	C6206	C-7	F	R735	E-2	C	R3034	C-6	F	R6005	C-4	F	R6118	D-5	F
B-6	F	C6207	D-2	C	R736	E-2	C	R3050	B-8	F	R6006	C-4	F	R6119	E-6	C
B-6	F	C6208	C-7	F	R737	E-7	F	R3057	B-4	F	R6007	D-4	F	R6120	E-5	C
B-6	F	C6209	C-3	C	R738	E-7	F	R3058	B-4	F	R6010	C-4	F	R6121	E-7	F
B-4	C	Resistor			R740	E-7	F	R3059	B-4	F	R6011	D-5	F	R6122	D-5	F
B-5	F	R301	E-4	C	R743	E-7	F	R3060	E-8	C	R6012	E-6	C	R6123	C-3	F
B-4	C	R303	D-6	F	R745	D-7	F	R4001	C-1	C	R6013	C-5	F	R6124	F-4	F
B-4	C	R304	D-6	F	R761	E-2	C	R4002	C-8	F	R6014	E-8	C	R6125	F-5	C
B-5	C	R305	C-3	C	R1001	B-8	C	R4004	C-8	F	R6015	E-8	C	R6126	B-6	C
A-5	C	R308	C-6	C	R1002	B-3	F	R4005	C-8	F	R6016	E-8	C	R6127	F-4	F
B-4	C	R309	C-6	F	R1005	B-8	C	R4006	C-2	C	R6017	F-5	F	R6128	B-6	C
B-6	F	R310	C-3	C	R1006	B-8	C	R4007	C-7	F	R6020	C-4	F	R6129	A-5	C
B-5	F	R311	C-4	C	R1007	A-2	F	R4008	C-2	C	R6021	D-4	F	R6130	F-4	C
B-6	F	R312	E-7	F	R1008	A-3	F	R4009	B-8	F	R6022	D-4	F	R6131	F-4	F
B-7	F	R314	E-7	F	R1009	A-3	F	R4010	C-2	C	R6023	D-3	F	R6132	C-5	F
A-8	F	R315	E-6	F	R1012	A-3	F	R4011	C-8	F	R6024	D-4	F	R6133	C-4	F
B-7	F	R316	D-6	F	R1013	A-3	F	R4012	C-1	C	R6025	C-4	F	R6203	C-7	F
B-7	F	R317	D-7	F	R1014	B-7	C	R4013	D-1	C	R6026	C-4	F	R6204	C-7	F
B-7	F	R318	E-6	F	R1015	B-7	C	R4014	D-8	F	R6027	F-5	F	R6205	C-7	F
C-3	C	R319	E-6	F	R1016	B-7	C	R4015	C-8	F	R6029	C-4	F	R6206	D-8	F
B-3	C	R320	D-5	F	R1017	B-7	C	R4016	C-8	F	R6030	E-8	C	R6207	D-7	F
B-3	C	R321	E-6	F	R1018	B-7	C	R4017	D-1	C	R6031	E-5	F	R6211	D-4	F
B-7	F	R323	C-6	F	R1019	B-7	C	R4018	D-9	C	R6032	E-4	F	R6801	B-8	F
C-3	C	R324	D-7	F	R1020	B-7	C	R4019	C-7	F	R6033	E-4	F	R6802	B-8	F
B-3	C	R325	D-7	F	R1021	B-3	F	R4020	C-7	F	R6034	E-5	C	Resistor Array		
B-7	F	R326	D-2	C	R1022	B-3	F	R4021	B-7	F	R6035	D-7	F	RA301	E-7	F
B-7	F	R327	E-3	C	R1023	A-3	F	R4022	C-8	F	R6036	D-4	F	RA704	E-8	F
B-7	F	R328	E-6	F	R1024	B-7	C	R4023	C-2	C	R6037	D-3	F	RA6001	D-7	F
B-7	F	R329	C-4	C	R1025	B-7	C	R4024	C-8	F	R6038	D-3	F	RA6002	F-4	C
B-7	F	R330	E-6	F	R1035	B-2	F	R4025	C-8	F	R6041	D-3	F	RA6003	F-5	C
B-7	F	R332	E-6	F	R1036	B-3	F	R4026	C-8	F	R6042	E-3	F	RA6004	D-5	C
B-7	F	R334	D-6	F	R1039	B-7	C	R4027	B-8	F	R6043	D-3	F	RA6006	F-4	C
C-3	C	R335	E-6	F	R1040	A-3	F	R4028	B-8	F	R6046	C-3	F	RA6007	F-5	C
C-6	F	R336	C-5	F	R1052	B-3	F	R4029	C-8	F	R6048	E-8	C	RA6008	D-4	F
A-2	C	R337	C-4	C	R1057	A-3	F	R4030	C-8	F	R6049	F-8	C	RA6009	D-5	F
B-3	C	R338	C-6	F	R1063	A-7	C	R4031	B-8	F	R6050	E-8	C	RA6010	D-4	F
B-3	C	R339	E-3	C	R1064	A-1	F	R4032	B-7	F	R6052	D-4	F	RA6011	F-6	C
B-7	F	R340	C-6	F	R1065	B-1	F	R4033	B-7	F	R6053	D-4	F			
B-8	F	R344	C-4	C	R1066	A-7	C	R4034	C-8	F	R6056	E-8	C			
A-8	F	R345	C-4	C	R1067	A-7	C	R4035	C-2	C	R6058	C-5	C			
B-7	F	R346	C-4	F	R1068	A-7	C	R4036	C-8	F	R6059	C-5	C			
C-4	F	R347	C-7	F	R1069	A-7	C	R4037	B-7	F	R6060	D-4	F			
E-4	C	R358	D-7	F	R1071	B-3	F	R4038	C-8	F	R6061	C-4	F			
E-9	C	R359	C-6	F	R1072	B-3	F	R4040	C-8	F	R6062	E-5	C			
E-8	C	R360	E-4	C	R1073	B-3	F	R4041	B-7	F	R6063	E-7	C			
C-4	F	R361	E-4	C	R1085	B-3	F	R4042	B-7	F	R6064	D-4	F			
D-4	F	R363	F-6	F	R1086	B-7	C	R4050	C-8	F	R6065	D-4	F			
E-4	C	R364	E-6	F	R1601	B-8	C	R4060	C-7	F	R6066	D-4	F			
C-6	C	R365	E-6	F	R1602	C-1	F	R4801	B-1	C	R6067	E-8	C			
C-3	F	R370	D-7	F	R1603	C-8	C	R4802	C-1	C	R6068	E-8	C			
C-4	F	R371	E-3	C	R1699	C-1	F	R4803	C-1	C	R6069	E-7	C			
C-7	C	R373	F-6	F	R1703	E-7	C	R4804	C-1	C	R6070	E-4	F			
D-7	C	R376	C-6	F	R1726	E-3	C	R4805	C-1	C	R6075	E-7	C			
C-3	F	R377	D-8	F	R1727	E-3	F	R4806	C-1	C	R6078	D-3	F			
C-4	F	R379	D-7	F	R1805	B-4	F	R4807	C-1	C	R6079	F-4	F			
F-4	F	R380	D-7	F	R1806	B-3	F	R4808	C-1	C	R6080	C-7	C			

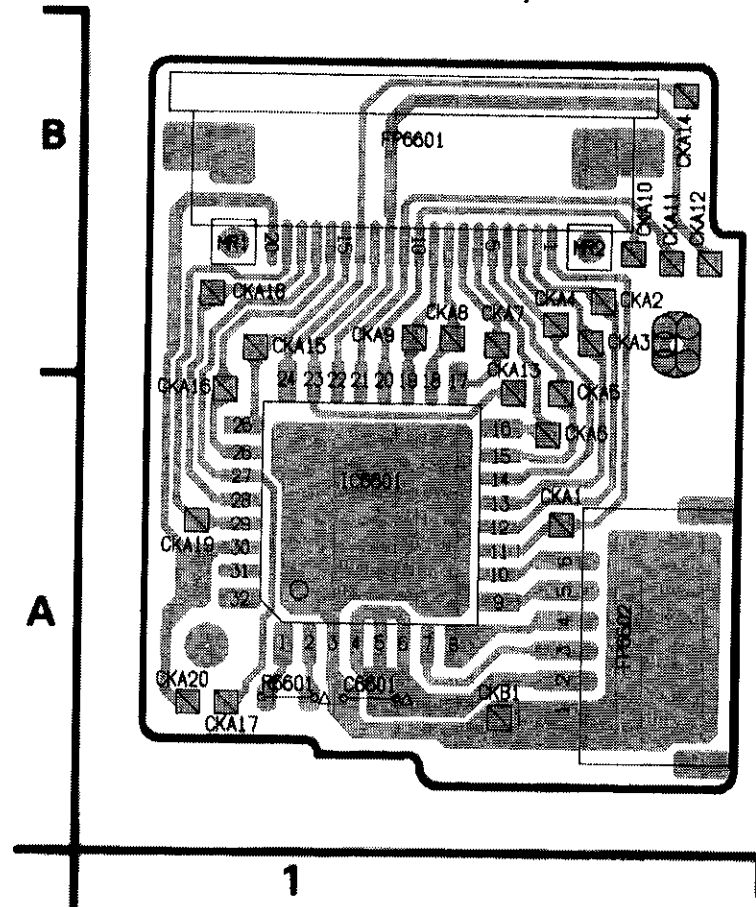
10 CIRCUIT BOARD ASSEMBLIES

10.1. CAMERA/MAIN C.B.A. ADDRESS INFORMATION

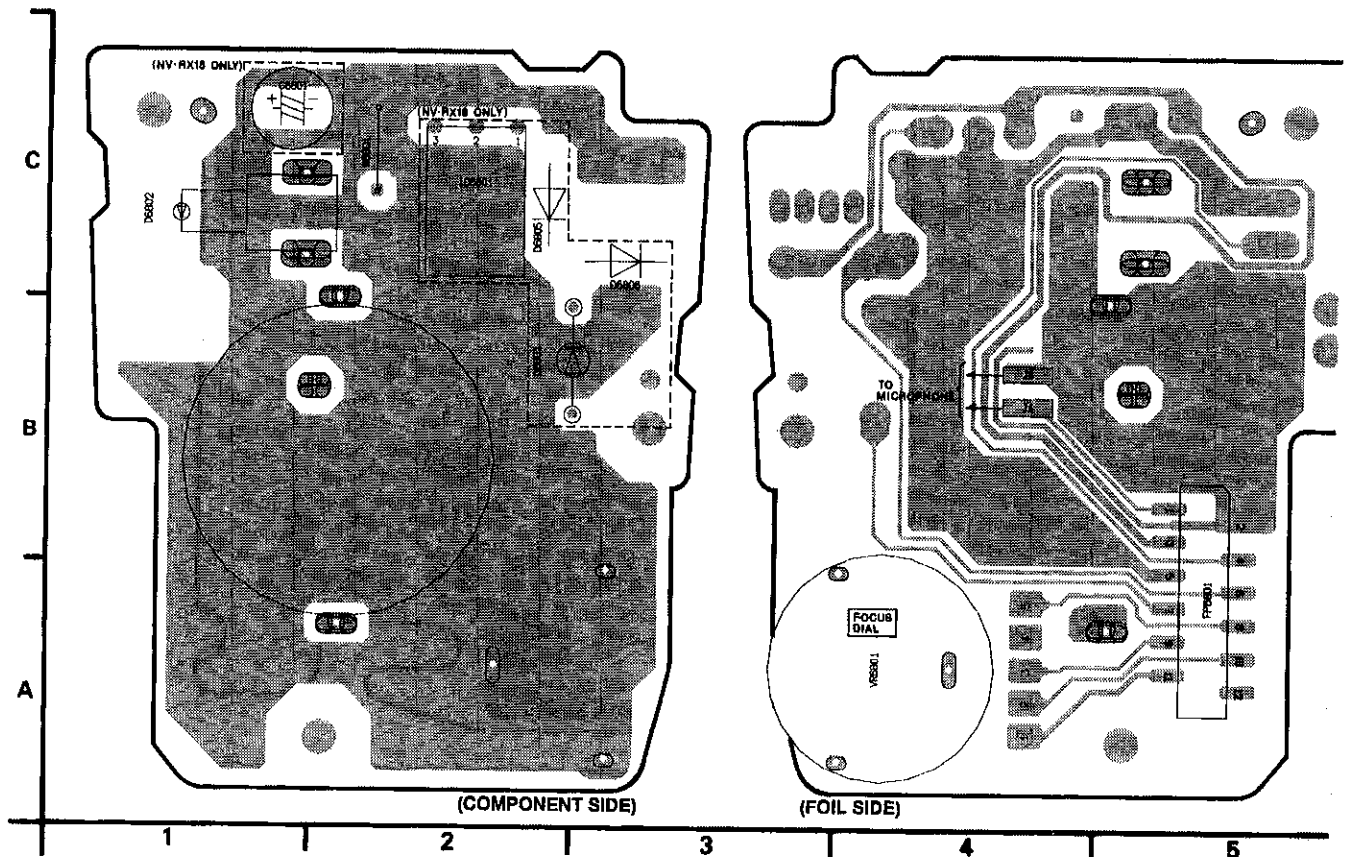
Camera/Main C.B.																	
Integrated Circuit		QR6004	D-5	F	CKA12	F-5	F	CKY13	B-5	F	LB1602	C-2	F	C1028	A-7	C	C4024
IC301	D-6	QR6005	D-3	F	CKA14	F-4	F	CKY14	B-5	F	LB6001	C-5	C	C1030	B-7	C	C4025
IC302	E-5	QR6007	C-5	C	CKA16	F-4	F	CKY15	B-4	F	LB6002	C-6	C	C1032	B-7	C	C4026
IC303	D-3	QR6008	A-5	C	CKA20	F-4	F	CKY18	A-5	F	LB6003	D-3	F	C1033	B-3	F	C4027
IC304	D-5	QR6009	C-3	F	CKA24	F-4	F	CKY19	B-4	F	LB6004	D-7	C	C1034	B-3	F	C4028
IC305	D-3	QR6012	B-5	C	CKB3	C-1	F	CKY20	B-4	F	Capacitor			C1035	A-3	F	C4029
IC313	C-6	QR6013	B-5	C	CKB6	C-1	F	CKY21	A-4	F	C301	D-3	C	C1036	B-7	C	C4030
IC314	E-6	QR6014	C-4	F	CKC1	F-9	F	CKY22	A-4	F	C302	D-4	C	C1037	B-7	C	C4031
IC315	E-3	QR6050	D-5	F	CKC2	F-9	F	CKY23	A-4	F	C303	D-7	F	C1041	C-1	F	C4032
IC316	C-4	QR6801	B-8	F	CKC3	F-8	F	CKY27	A-4	F	C304	C-6	F	C1046	A-7	C	C4034
IC701	D-2	Diode			CKC4	E-8	F	CKY30	A-5	F	C305	C-6	F	C1051	B-2	F	C4035
IC702	D-8	D301	C-4	C	CKC5	E-8	F	CKY31	B-4	F	C306	E-5	F	C1055	B-7	F	C4036
IC706	D-2	D304	E-3	C	CKC6	D-8	F	CKY32	B-4	F	C307	C-4	C	C1057	B-2	F	C4037
IC711	E-2	D1006	A-2	F	CKC7	D-8	F	CKY35	B-5	F	C308	C-6	F	C1063	B-8	C	C4038
IC1001	B-3	D1007	A-2	F	CKD2	E-3	F	CKY36	B-5	F	C309	C-3	C	C1064	A-8	C	C4039
IC2201	E-1	D1009	A-7	C	CKD4	E-2	F	CKY37	B-5	F	C310	E-6	F	C1065	B-8	C	C4801
IC2202	E-8	D1015	B-8	C	CKE1	A-5	F	CKW2	C-9	F	C311	E-3	C	C1066	A-8	C	C4803
IC2203	E-8	D1020	A-7	C	CKE5	A-5	F	CKW3	C-9	F	C312	E-3	C	C1071	B-1	F	C4804
IC3001	B-2	D1601	C-1	F	CKE6	A-6	F	CKW4	D-8	F	C313	D-6	F	C1080	B-3	F	C4805
IC5001	B-4	D1602	C-1	F	CKE7	A-6	F	CKW6	D-8	F	C314	E-6	F	C1081	B-7	C	C4806
IC5501	B-7	D1603	C-8	C	CKE9	A-6	F	CKW7	D-8	F	C315	C-6	F	C1602	C-8	C	C4807
IC6002	E-4	D1604	C-1	F	CKE10	A-6	F	TL1001	B-2	F	C316	D-3	C	C1603	C-8	C	C4808
IC6003	D-5	D3001	A-8	C	CKE11	A-6	F	TL1002	B-1	F	C317	C-5	F	C2001	F-1	C	C5001
IC6004	C-3	D3004	B-4	F	CKE12	A-6	F	Connector			C318	D-8	F	C2009	F-9	F	C5002
IC6005	E-8	D4001	A-6	F	CKF1	F-6	F	FP701	E-9	F	C321	F-4	C	C2020	F-8	F	C5003
IC6006	E-8	D5501	C-7	F	CKF5	F-5	F	FP2001	C-2	C	C322	D-6	F	C2033	F-2	C	C5004
IC6007	D-3	D6001	E-4	F	CKF6	F-6	F	FP2002	F-2	C	C323	E-4	C	C2043	F-2	C	C5005
IC8008	E-4	D6002	E-4	C	CKF9	F-6	F	FP4001	D-9	F	C324	E-4	C	C2202	F-1	C	C5006
IC8009	D-3	D6003	B-6	C	CKF11	F-5	F	FP4002	B-9	F	C327	D-5	F	C2203	F-1	C	C5007
IC8010	C-3	D6004	F-8	C	CKF13	F-5	F	FP5001	A-6	F	C328	C-4	C	C2207	F-1	C	C5008
IC8011	C-3	D6005	B-5	C	CKF15	F-6	F	FP6001	E-1	F	C330	D-3	C	C2208	E-1	C	C5009
IC8201	C-8	D6006	E-4	F	CKF18	F-5	F	FP6002	E-2	F	C331	E-6	F	C2209	E-1	C	C5010
IC8202	C-7	D6007	E-4	F	CKG1	E-7	F	FP6003	F-6	F	C332	E-7	F	C2210	F-9	F	C5011
Transistor		D6009	F-5	C	CKG2	E-7	F	FP6004	F-8	F	C333	C-6	F	C2212	F-8	F	C5012
Q201	E-6	D6010	D-7	C	CKG3	E-7	F	FP6006	F-4	F	C335	D-5	F	C2213	F-8	F	C5013
Q301	C-3	D6013	F-5	C	CKG4	E-7	F	P1001	E-3	F	C338	E-6	F	C2214	F-8	F	C5014
Q701	D-2	D6014	F-6	C	CKG5	E-7	F	PP301	E-7	F	C347	E-6	F	C2216	F-8	F	C5016
Q702	E-1	D6015	F-4	C	CKG6	E-7	F	PP3001	A-4	F	C358	E-4	C	C2217	F-9	F	C5017
Q703	E-8	D6016	C-4	F	CKG7	E-7	F	PS1003	C-9	C	C359	E-3	C	C2219	F-1	C	C5018
Q704	E-1	D6017	F-4	C	CKG8	E-7	F	PS3009	D-9	C	C360	E-6	F	C2220	F-9	F	C5019
Q706	D-8	D6019	F-4	C	CKG9	E-7	F	Crystal Oscillator			C361	E-4	C	C2221	F-9	F	C5020
Q707	E-1	D6020	D-4	C	CKG10	E-7	F	X301	E-3	C	C362	F-4	C	C2222	F-9	F	C5021
Q708	E-1	D6021	F-5	C	CKG11	E-7	F	X6001	C-5	C	C364	F-3	C	C2223	E-9	F	C5022
Q1001	B-2	D6022	F-6	C	CKG12	E-7	F	X6003	E-6	C	C365	F-3	C	C2224	F-8	F	C5023
Q1003	B-2	D6023	B-1	C	CKJ1	D-1	F	Coil			C366	E-4	C	C2225	F-8	F	C5024
Q1004	A-2	D6025	F-5	C	CKJ4	E-1	F	L301	D-4	C	C367	E-3	C	C2226	F-8	F	C5025
Q1010	A-7	D6026	F-5	C	CKK2	F-7	F	L302	C-3	C	C368	F-6	F	C2227	E-8	F	C5041
Q1061	B-1	D6027	F-5	C	CKK3	F-7	F	L303	D-7	F	C369	E-3	C	C2233	E-9	F	C5501
Q1062	A-1	D6201	D-4	F	CKK4	F-7	F	L304	E-6	F	C371	E-6	F	C3001	A-4	C	C5502
Q3001	B-4	Transformer			CKK5	F-7	F	L305	E-3	C	C372	E-6	F	C3004	B-8	F	C5504
Q3002	B-4	T1001	A-8	C	CKK6	F-7	F	L306	C-4	C	C374	E-4	C	C3005	B-3	C	C5505
Q3010	B-4	T4001	C-1	C	CKK7	F-7	F	L316	E-6	F	C375	E-7	F	C3006	A-3	C	C5506
Q4001	C-8	Test Point			CKK8	F-7	F	L322	E-4	C	C376	E-7	F	C3008	A-3	C	C5507
Q4002	D-1	CL301	D-5	F	CKK10	F-7	F	L703	D-1	C	C377	E-7	F	C3009	B-7	F	C5508
Q4003	C-8	CL302	D-5	F	CKK12	F-7	F	L1001	B-8	C	C382	F-3	C	C3010	C-1	F	C5509
Q4004	C-2	CL307	D-7	F	CKK13	E-7	F	L1002	A-8	C	C383	C-6	F	C3016	A-3	C	C5510
Q4006	B-8	CL702	D-8	F	CKK15	E-7	F	L1003	C-7	C	C385	B-5	C	C3017	A-7	F	C5511
Q4007	C-8	CL1001	C-3	F	CKK17	E-7	F	L1004	B-7	C	C386	C-5	C	C3018	A-7	F	C5512
Q4009	C-8	CL1002	E-3	F	CKK18	E-7	F	L1006	B-3	F	C701	D-2	C	C3019	A-3	C	C5513
Q4014	C-7	CL1012	B-4	F	CKN2	F-1	F	L1007	B-7	C	C702	E-7	F	C3020	A-2	C	C5514
Q4801	C-2	CL3003	B-6	F	CKN3	F-1	F	L1008	C-6	C	C703	E-8	F	C3022	A-7	F	C5515
Q4802	B-1	CL3004	B-6	F	CKN6	F-1	F	L1010	B-6	C	C704	D-1	C	C3023	A-2	C	C5516
Q5001	A-4	CL3007	B-7	F	CKN7	F-1	F	L1011	B-6	C	C705	E-8	F	C3024	A-2	C	C5518
Q5002	A-4	CL3008	B-7	F	CKN8	E-1	F	L1014	B-7	C	C711	D-1	C	C3026	A-2	C	C5519
Q5003	A-5	CL4002	D-9	F	CKN9	F-1	F	L1015	B-3	F	C713	E-8	F	C3027	A-1	C	C5520
Q5501	C-3	CL4004	C-8	F	CKN15	E-1	F	L1061	B-9	C	C715	E-2	C	C3028	B-6	C	C5521
Q5502	B-4	CL5501	B-7	F	CKN16	F-1	F	L1062	A-9	C	C716	D-8	F	C3029	C-3	C	C5522
Q5504	C-7	CL8001	E-5	F	CKP1	D-9	F	L3002	B-6	F	C718	E-2	C	C3030	A-2	C	C5523
Q6001	C-4	CL6002	E-5	F	CKP2	D-9	F	L3003	A-8	F	C719	E-7	F	C3031	A-2	C	C5525
Q6002	D-4	CL6003	E-5	F	CKP3	D-9	F	L3004	A-2	C	C721	D-8	F	C3033	B-4	F	C5526
Q6003	D-3	CL6005	D-3	F	CKP4	D-9	F	L4005	C-9	F	C724	D-2	C	C3035	B-8	F	C5527
Q6004	B-6	CL6006	C-4	F	CKP5	D-9	F	L5001	B-6	F	C727	D-2	C	C4001	C-2	C	C5530
Q6006	D-3	CL6007	D-3	F	CKP6	E-7	F	L5002	B-6	F	C1001	B-8	C	C4002	C-7	F	C5531
Transistor & Resistor		CL6011	B-1	F	CKP7	E-9	F	L5003	B-5	F	C1003	B-8	C	C4003	C-2	C	C5534
QR301	C-4	CL6012	E-4	F	CKP8	E-9	F	L5004	B-6	F	C1004	B-6	C	C4004	B-8	F	C8001
QR302	C-4	CL6013	F-4	F	CKP10	E-9	F	L5501	B-6	F	C1005	B-7	C	C4005	C-1	C	C8002
QR304	C-8	CL6014	E-3	F	CKP11	E-9	F	L5502	B-7	F	C1008	B-2	F	C4006	B-2	C	C8003
QR701	E-8	CL6015	C-1	F	CKP12	E-9	F	L5503	B-3	C	C1009	B-7	C	C4007	B-2	C	C8004
QR																	

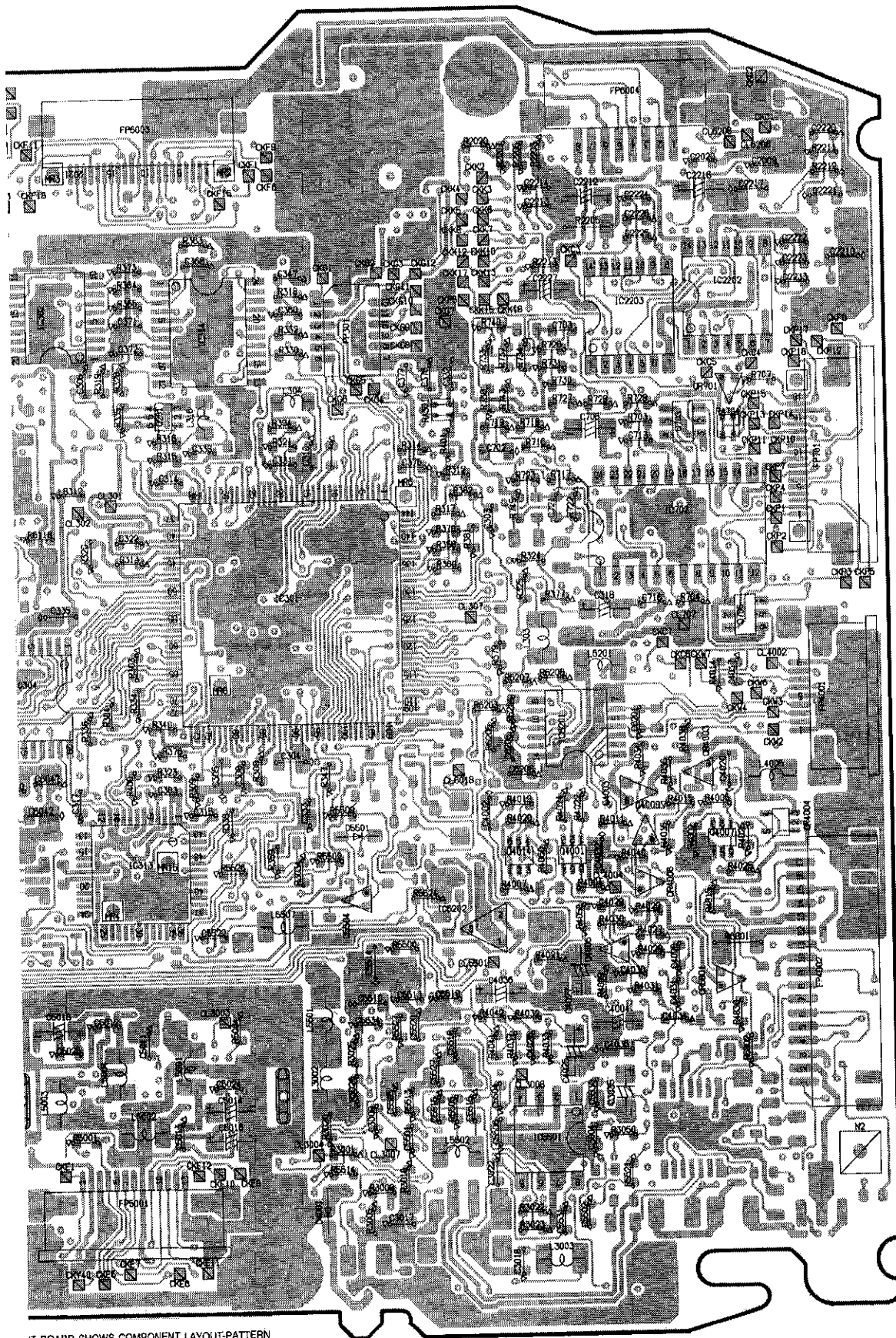


10.4. SMALL LCD DRIVE C.B.A. (VEP00Z89A)



10.5. MIC UNIT (VEK8577:NV-RX14, NV-RX17) (VEK8578:NV-RX18)





IT BOARD SHOWS COMPONENT LAYOUT-PATTERN
OUT-PATTERNS ARE SINGLE PATTERN FOR EACH
ONENT LAYOUT.

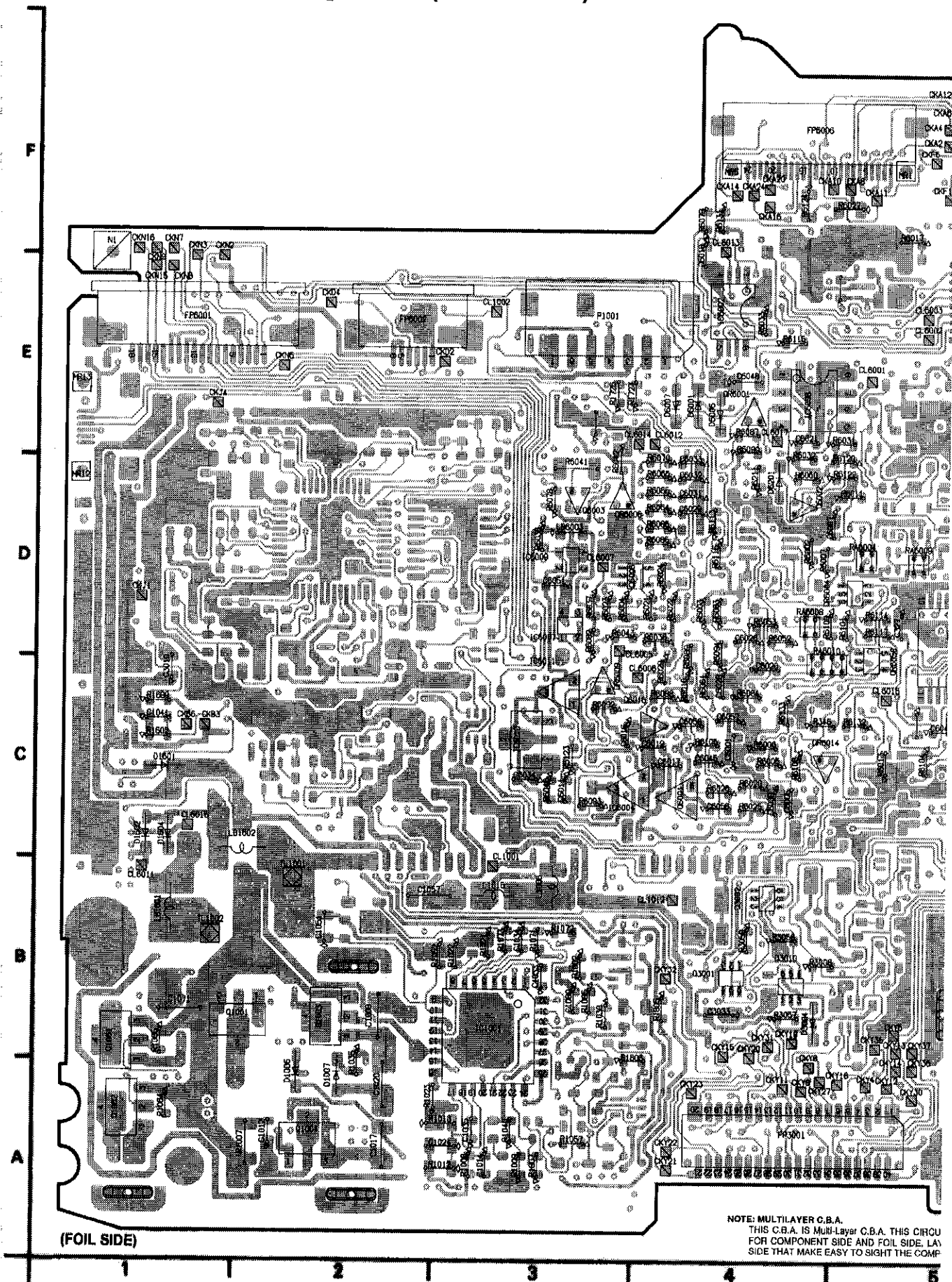
6

7

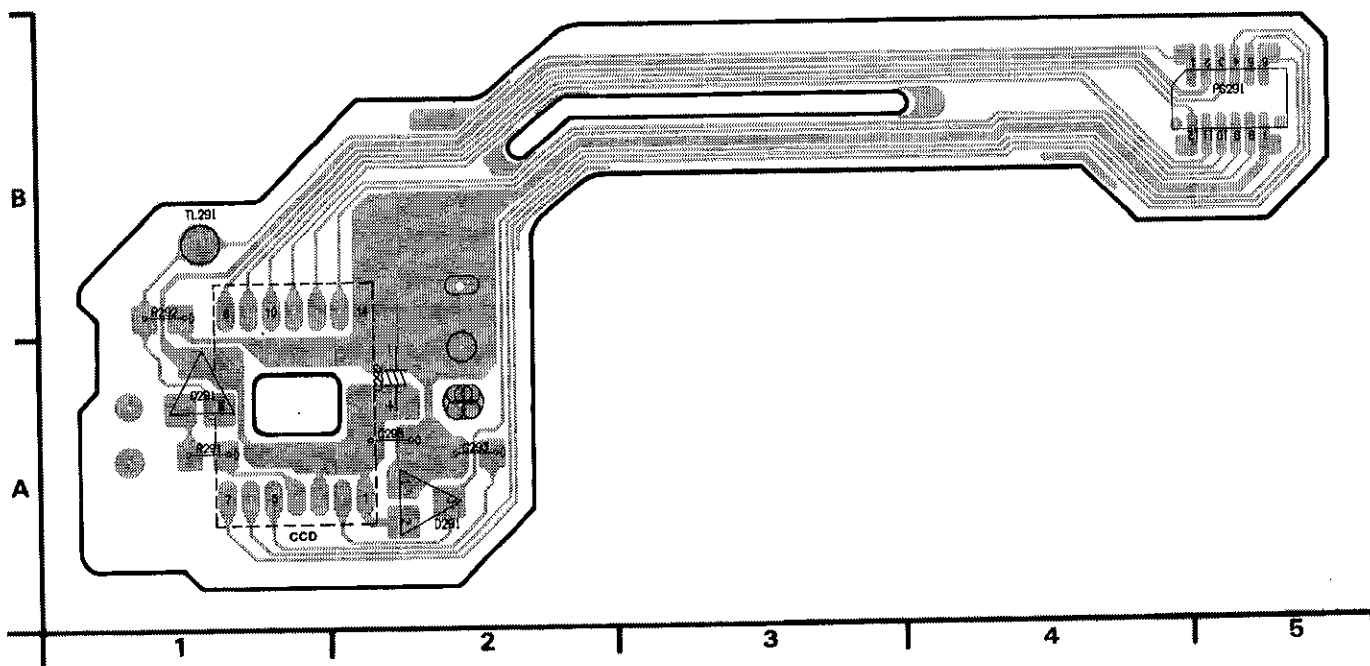
8

9

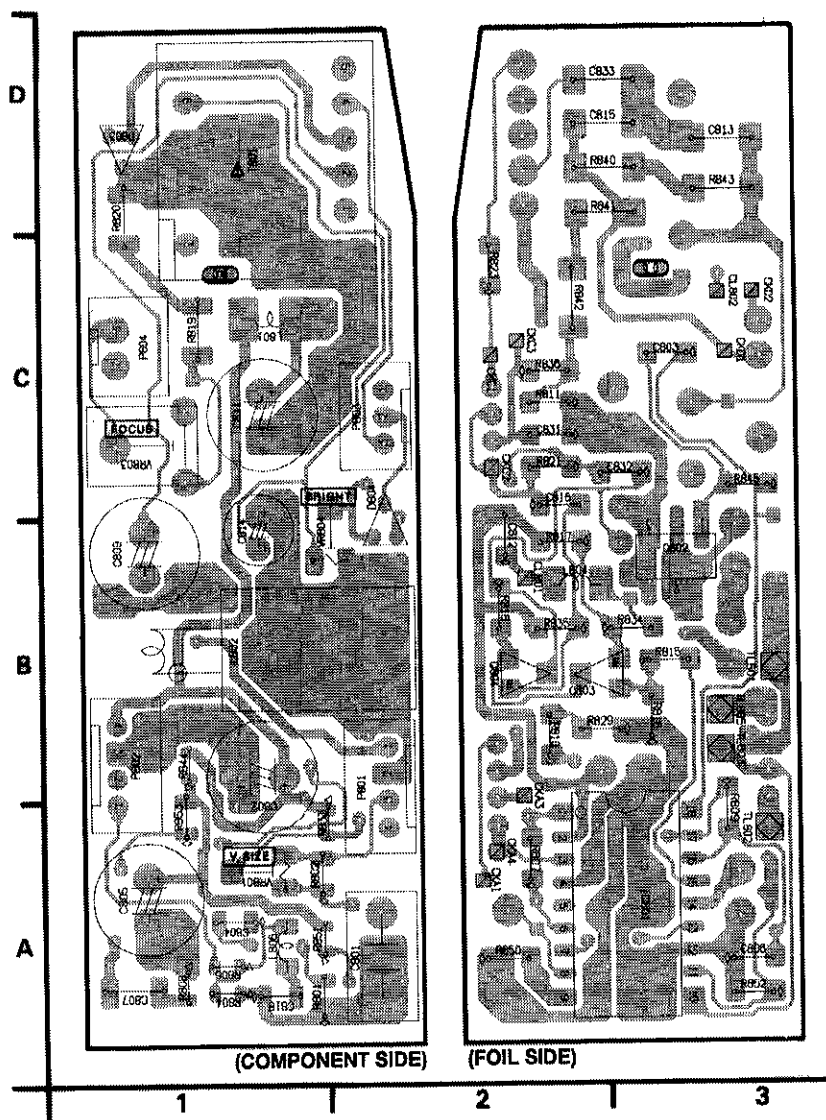
10.3. CAMERA/MAIN [FOIL SIDE] C.B.A. (VEP23474A)



10.6. CCD FLEX. CARD C.B.A. (VEP22276B)

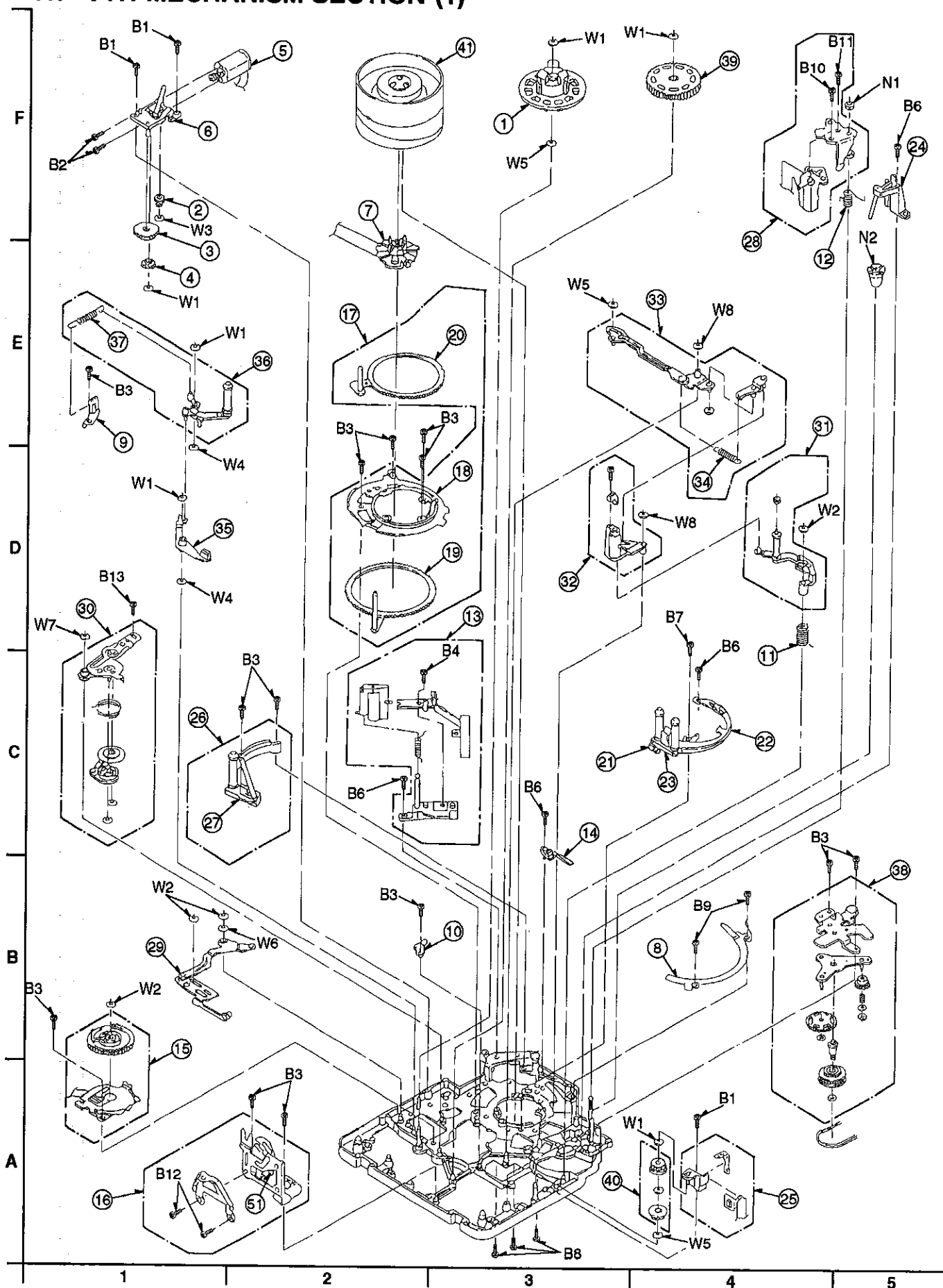


10.7. E.V.F. C.B.A. (VEP28259A)



11 EXPLODED VIEWS & PARTS LIST

11.1. VTR MECHANISM SECTION (1)



11.2. VTR MECHANISM SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.

2. 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.

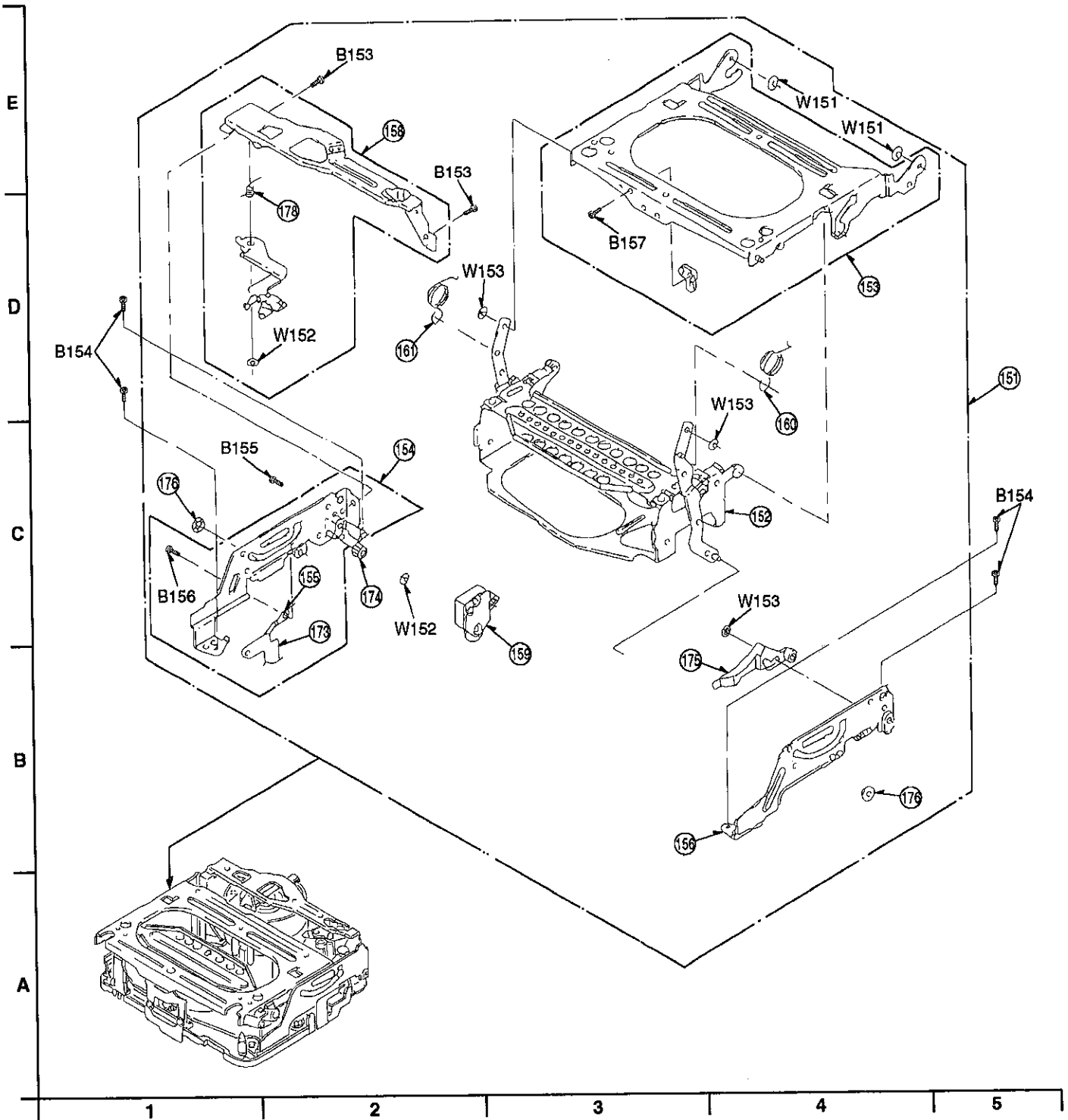
[illegible][illegible]



Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
113 (2)	VBK0059	MR HEAD	1	
114 (2)	VXD0134	HOUSING U.	1	
115 (2)	VXP1303	ROTOR U.	1	
119 (2)	VMP4923	H.A. EARTH PLATE	1	
120 (2)	VMD1842	REEL SENSOR MOUNT	1	
121 (2)	0N2170-LM	REEL SENSOR	1	
B102 (2)	VHD0593	SCREW	1	
B103 (2)	XQN14+B25FV	SCREW	1	
B104 (2)	XQN14+C2R	SCREW	4	
B106 (2)	XQN14+A3	SCREW	3	
B107 (2)	XQN14+CF4	SCREW	1	
B108 (2)	XQN14+C2	SCREW	1	
B109 (2)	VHD0875	SCREW	1	

11.5. VTR MECHANISM SECTION (3)



11.6. VTR MECHANISM SECTION (3) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.

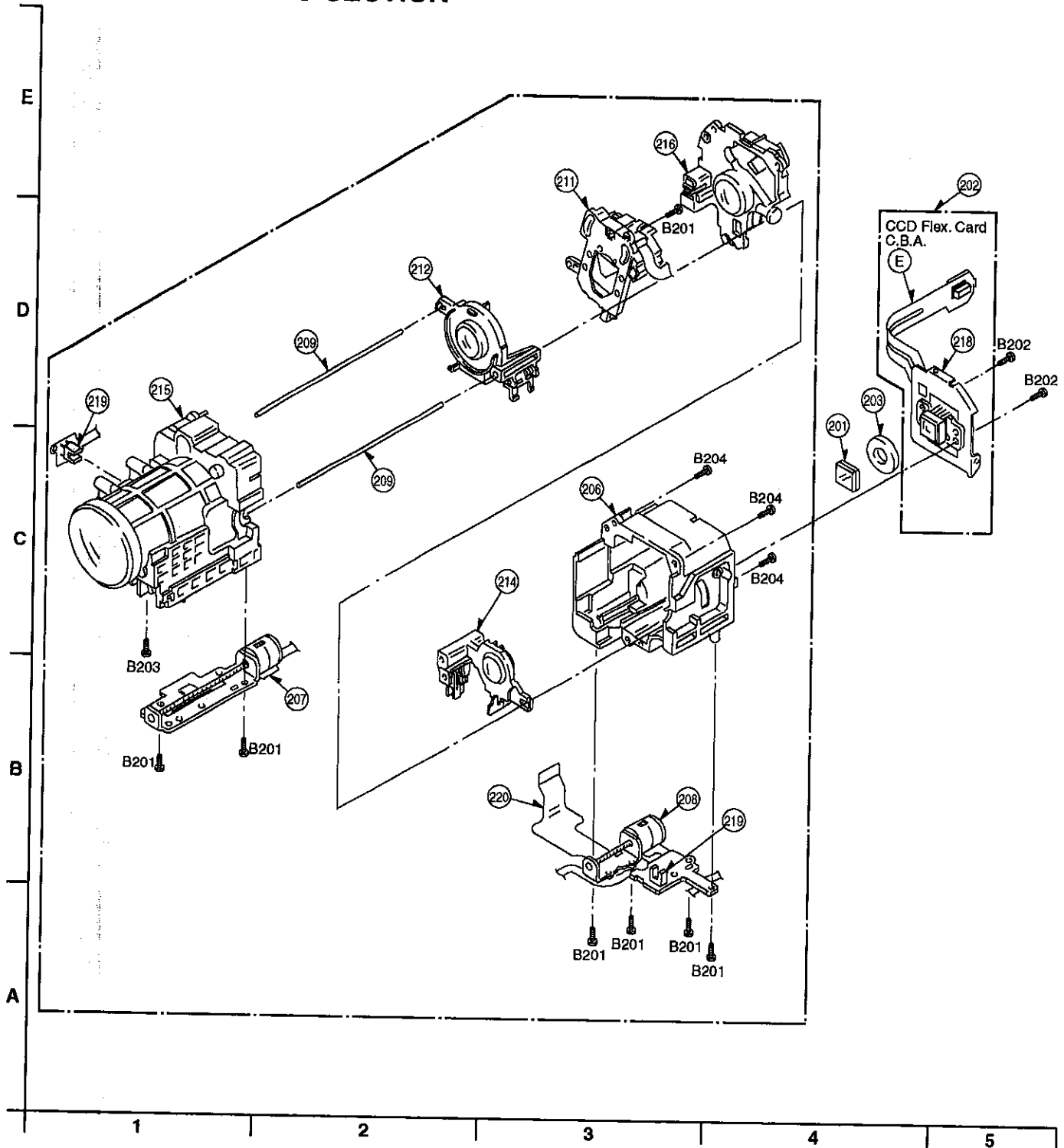
2. IMPORTANT SAFETY NOTICE

Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pos.	Remarks
151 (3)	VXA5725	GARAGE U.	1	
152 (3)	VXA5199	HOLDER U.	1	
153 (3)	VXA4863	GARAGE (1) U.	1	
154 (3)	VXA4510	STAND (L) U.	1	
155 (3)	VXA4511	PHOTO (L) U.	1	
156 (3)	VXA5000	STAND (R) U.	1	
158 (3)	VXL2222	TAPE GUIDE U.	1	
159 (3)	VXP1472	DUMPER	1	
160 (3)	VMB2367	UP SPRING (R)	1	
161 (3)	VMB2368	UP SPRING (L)	1	

Ref.No.	Part No.	Part Name & Description	Pos.	Remarks
173 (3)	VWJ0548	PHOTO FLEX CARD	1	
174 (3)	VDG0827	DUMPER RELAY GEAR	1	
175 (3)	VML2580	TAPE OPEN LEVER	1	
176 (3)	VDP1406	ARM HOLDER	2	
178 (3)	VMB2498	TAPE GUIDE SPRING	1	
B153 (3)	XQN14+BF2	SCREW	2	
B154 (3)	VHD0838	SCREW	4	
B155 (3)	XQN16+AJ8	SCREW	1	
B156 (3)	XQN14+CM2	SCREW	1	
B157 (3)	XQS14+A25FZ	SCREW	1	
W151 (3)	VMX1042	WASHER	2	
W152 (3)	VMX1061	WASHER	2	
W153 (3)	XWGV0008	WASHER	3	

11.7. CAMERA LENS SECTION



11.8. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.

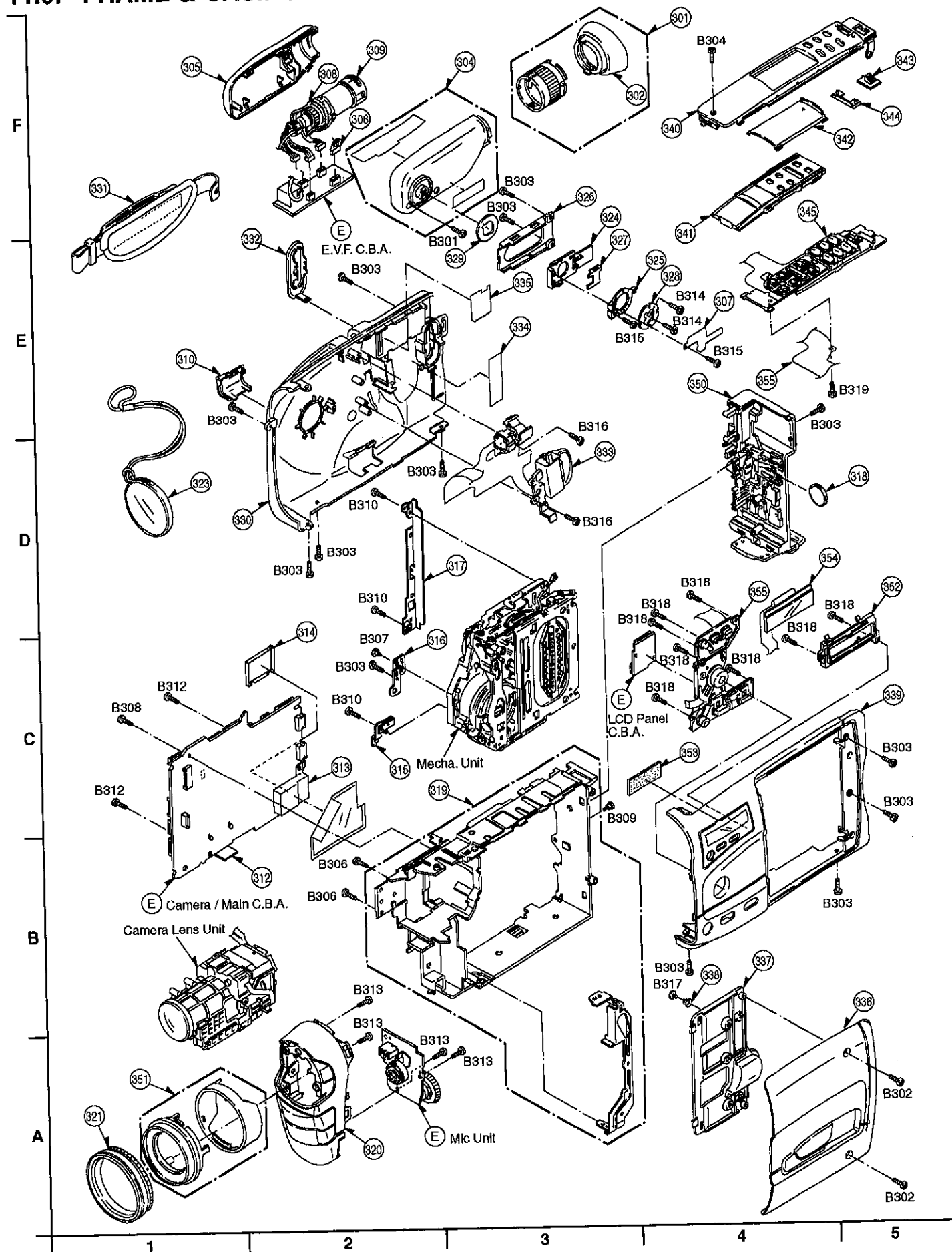
2. IMPORTANT SAFETY NOTICE

Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
201 (4)	VOL0790	CRYSTAL FILTER	1	
202 (4)	VEK8600	CCD U.	1	
203 (4)	VMX2712	CCD CUSHION	1	
204 (4)	VXW0436	LENS U.	1	
206 (4)	VOW0615	MASTER FLANGE	1	
207 (4)	VEM0642	ZOOM MOTOR U.	1	
208 (4)	VEM0643	FOCUS MOTOR U.	1	
209 (4)	VMS6423	GUIDE POLE	2	

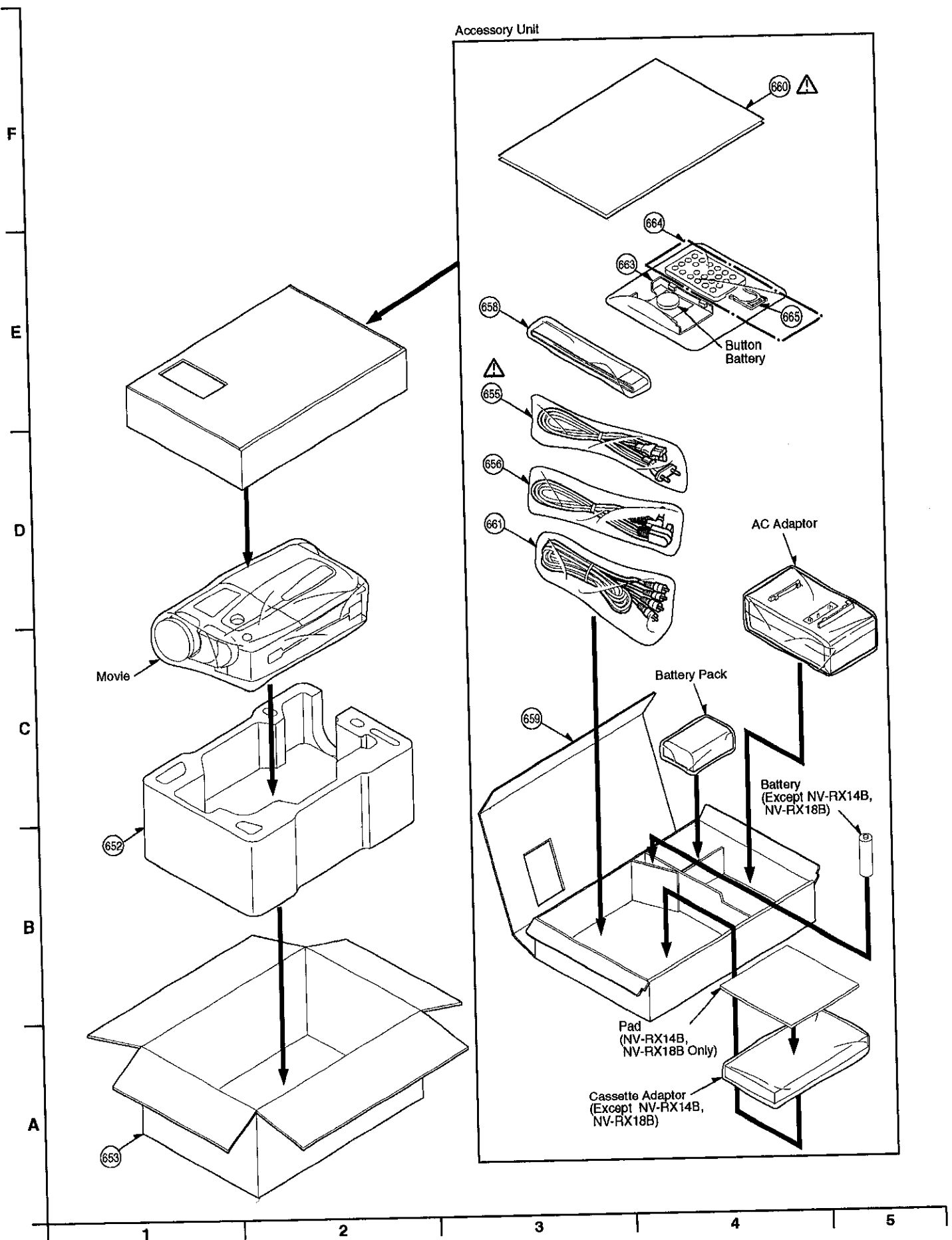
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
211 (4)	VXL2855	IRIS U.	1	
212 (4)	VXP1925	2ND. MOVING FRAME U.	1	
214 (4)	VXP1927	4TH. MOVING FRAME U.	1	
215 (4)	VXQ0794	MAIN FRAME U.	1	
216 (4)	VXQ0795	3RD. LENS FRAME U.	1	
218 (4)	VSC4696	CCD SHIELD CASE	1	
219 (4)	0N1004-R	PHOTO INTERRUPTER	2	
220 (4)	VJB20772	FLAT CARD CABLE	1	
B201 (4)	XQN16+BJ5	SCREW	7	
B202 (4)	XQN16+CJ6	SCREW	2	
B203 (4)	VHD0852	SCREW	1	
B204 (4)	XQN16+BJ8	SCREW	3	

11.9. FRAME & CASING SECTION



[illegible][illegible]

11.11. PACKING PARTS & ACCESSORIES SECTION



11.12. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
 2. IMPORTANT SAFETY NOTICE
 Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
852 (6)	VPN5109	CUSHION (LOWER)	1	
853 (6)	VP9750	PACKING	1	NV-RX17EG
853 (6)	VP9751	PACKING	1	NV-RX14B
853 (6)	VP9752	PACKING	1	NV-RX17EN
853 (6)	VP9753	PACKING	1	NV-RX17ENH
853 (6)	VP9922	PACKING	1	NV-RX17E
853 (6)	VP9756	PACKING	1	NV-RX18EG
853 (6)	VP9757	PACKING	1	NV-RX18B
853 (6)	VP9758	PACKING	1	NV-RX18EN
Δ 855 (6)	VJA0664	AC CORD	1	NV-RX17EG/EN/E
Δ 855 (6)	VJA0940	AC CORD	1	NV-RX18EG/EN
			1	NV-RX17ENH
			1	NV-RX14B
			1	NV-RX18B
856 (6)	VJA1087	DC OUTPUT CABLE	1	
858 (6)	VFC2522	SHOULDER STRAP	1	
859 (6)	VPN5108	ACCESSORIES BOX	1	
Δ 860 (6)	VQT7790	OPERATING INSTRUCTIONS (GERMAN/FRENCH/ DUTCH/DANISH)	1	NV-RX17EG/E
Δ 860 (6)	VQT7794	OPERATING INSTRUCTIONS (ENGLISH)	1	NV-RX14B
Δ 860 (6)	VQT7795	OPERATING INSTRUCTIONS (ENGLISH/CHINESE/ RUSSIAN/ARABIC)	1	NV-RX17EN/ENH
Δ 860 (6)	VQT7807	OPERATING INSTRUCTIONS (GERMAN/FRENCH/ DUTCH/DANISH)	1	NV-RX18EG
Δ 860 (6)	VQT7808	OPERATING INSTRUCTIONS (ITALIAN/ENGLISH/ SPANISH/SWEDISH)	1	NV-RX18EG
Δ 860 (6)	VQT7811	OPERATING INSTRUCTIONS (ENGLISH)	1	NV-RX18B
Δ 860 (6)	VQT7812	OPERATING INSTRUCTIONS (ENGLISH/CHINESE/ RUSSIAN/ARABIC)	1	NV-RX18EN
861 (6)	VFA0039	AV CORD	1	
863 (6)	VQG8813	REMOTE CONTROLLER HOLDER	1	NV-RX18EG/B/EN ONLY
864 (6)	VEQ1897	REMOTE CONTROLLER	1	NV-RX18EG/B/EN ONLY
865 (6)	VJF1262	BATTERY COVER	1	NV-RX18EG/B/EN ONLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		***** JIG & TOOLS *****		
		--- ELECTRICAL ---		
		TATSUJIN KIT		
		(For individual part		
		numbers of Tatsuji Kit,		
		Please refer to		
		Technical Information		
		Order No. VRD9809T08)		
	VFKW0F0033	ATTACHMENT CABLE	2	OR VFK0870
	VFKW0F0056	ATTACHMENT CABLE	2	(OR VFKW0F0055)
	VFKW0F0001	COMMON CABLE	2	
	VFKW0F0128	ATTACHMENT CABLE	1	OR VFK0978
	VFKW0F0127	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0118	ATTACHMENT CABLE	1	OR VFK0929
	VFKW0F0117	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0132	ATTACHMENT CABLE	1	OR VFK0980
	VFKW0F0131	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0111	ATTACHMENT CABLE	1	OR VFK013
	VFKW0F0112	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0140	ATTACHMENT CABLE	1	
	VFKW0F0139	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFK0688	EXTENSION CABLE	1	
		--- MECHANICAL ---		
	VFK0743	H-POSITION ADJUSTMENT	1	
	VFK0824	ASTERISK TYPE WRENCH	1	
	VFM8180HUPF	VHS-C ALIGNMENT TAPE	1	
	VFK0329	POST ADJ. SCREW DRIVER	1	
	VFK0326	HEX WRENCH SET	1	
	VFK27	HEAD CLEANING STICK	1	
	VFK1024	MORLYTONE GREASE	1	

12 ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
 2. 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.
 3. Unless otherwise specified, All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uF), P=uuF.
 4. The P.C. Board units marked with "III" show below the main assembled parts.
 5. The marking (RTL) indicates the retention time is limited for this item.
 After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	■ VEP23474A	CAMERA/MAIN C.B.A.	1	(RTL)
	■ VEP28259A	E.V.F. C.B.A.	1	(RTL)
	■ VEP22276B	CCD FLEX. CARD C.B.A.	1	(RTL)
	■ VEP00289A	SMALL LCD DRIVE C.B.A.	1	(RTL)
	■ VEK8577	MIC UNIT	1	NV-RX17EG/E/EN/ENH NV-RX14B
	■ VEK8578	MIC UNIT	1	NV-RX18EG/B/EN
	■ VEP23474A	CAMERA/MAIN C.B.A.		(RTL)
C301	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C302	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C303	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C304,05	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	2	
C306	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C307	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C308	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C309	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C310	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C311	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	1	
C312	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C313,14	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C315	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C316	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C317	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C318	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C321	ECEV0GA101	E.CAPACITOR CH 4V 100U	1	
C322-24	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C327	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C328	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C330-33	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C335	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C336	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C347	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C358,59	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	2	
C360	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C361	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C362	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C364	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C365	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C366,67	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	2	
C368	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C369	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C371	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C372	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C374	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C375	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C376	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C377	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C382	ECEV1AA101U	E.CAPACITOR CH 10V 100U	1	
C383	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C385	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C386	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C701	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C702	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C703	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C704	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C705	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C711	ECEV1CA470P	E.CAPACITOR CH 16V 47U	1	
C713	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C715,16	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C718	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C719	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C721	ECUX1H882KBV	C.CAPACITOR CH 50V 8800P	1	
C724	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C727	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1001	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1003	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1004	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1005	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1008	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1009	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C1010	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1012	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1014	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1017	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1019,20	ECUM1E334KBM	C.CAPACITOR CH 25V 0.33U	2	
C1022	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1026	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C1027	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1028	ECEV1HAR47	E.CAPACITOR CH 50V 0.47U	1	
C1030	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1032-35	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	4	
C1036	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1037	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1041	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1046	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1051	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U	1	
C1055	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1057	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1063,64	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	2	
C1065,66	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C1071	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1080,81	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C1602	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1603	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C2001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2009	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2020	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2033	ECUX1A105ZFN	C.CAPACITOR CH 10V 1U	1	
C2043	ECUX1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C2202	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2203	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2207	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C2208,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2210	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2212	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2213,14	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2216	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2217	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2219	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2220	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C2221	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2222,23	ECUX1C104ZFN	C.CAPACITOR CH 16V 0.1U	2	
C2224-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2227	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2233	ECUX1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3004	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3005	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C3006	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3008	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3009,10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3016	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3017	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3018	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3019,20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3023	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3024	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3028	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3027	ECEV1AAN100	E.CAPACITOR CH 10V 10U	1	
C3028	ECEV0GA471	E.CAPACITOR CH 4V 470U	1	
C3029	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C3030	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3033	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3035	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4001	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4002	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4003	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C4004	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4005	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C4006	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4007	ECUX1H392KBV	C.CAPACITOR CH 50V 3300P	1	
C4009	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4012	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
C4014	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C4015	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4016	ECUM2A472JCM	C.CAPACITOR CH 100V 4700P	1	
C4017	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4019	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C4020	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4021,22	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C4023	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C4024	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	1	
C4025	ECST0JY685Z	T.CAPACITOR CH 6.3V 6.8U	1	
C4026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4027	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C4028	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4029	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C4030	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4031	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4032	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C4034	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4035	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4036	ECST0JY335Z	T.CAPACITOR CH 6.3V 3.3U	1	
C4037	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4038	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4039	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4801	ECUX1C823KBV	C.CAPACITOR CH 16V 0.082U	1	
C4803	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C4804	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4805,08	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	2	
C4807	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C4808	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5001-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C5005-08	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	4	
C5009,10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5011	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5012,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5014	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5016	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5017	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5018	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5020,21	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5023-25	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C5041	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5501,02	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5504,05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5506	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5507	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C5508	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5509	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5510	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5511	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5512	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C5513	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5514	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5515	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5516	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5518	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5519	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5520	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5521	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5522	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	
C5523	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5525	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5526	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C5527	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5530	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C5531	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5534	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6002-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C6006,07	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C6009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6010	ECEV1AA101U	E.CAPACITOR CH 10V 100U	1	
C6011	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6014	ECEV1CA470P	E.CAPACITOR CH 16V 47U	1	
C6015,16	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6017	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6018	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	
C6019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6020,21	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6024,25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6027	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6028	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6029	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6030	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C6031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6032-34	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C6038	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6039	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6040,41	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C6042	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6044,45	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6047	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6048	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6051	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6053	ECEV0GA221	E.CAPACITOR CH 4V 220U	1	
C6054	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6056	ECUX1H162KBV	C.CAPACITOR CH 50V 1500P	1	
C6057,58	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C6201	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C6202,03	ECEV1CA100	E.CAPACITOR CH 16V 10U	2	
C6205	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C6206	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6207	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6208,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
D301	MA111	DIODE	1	
D304	1SS355	DIODE	1	
D1006,07	MA111	DIODE	2	
D1009	MA8180-M	DIODE	1	
D1015	EC10QS03L12	DIODE	1	
D1020	1SS355	DIODE	1	
D1801-04	MA8180-M	DIODE	4	
D3001	MA133	DIODE	1	
D3004	MA111	DIODE	1	
D4001	MA8030	DIODE	1	
D5501	MA111	DIODE	1	
D6001	MA111	DIODE	1	
D6002	MA728	DIODE	1	
D6003	SB05-05CP	DIODE	1	
D6004	MA8030	DIODE	1	
D6005,06	MA728	DIODE	2	
D6007	MA111	DIODE	1	
D6009,10	MA132WA	DIODE	2	
D6013	MA111	DIODE	1	
D6014,15	MA132WA	DIODE	2	
D6016	MA133	DIODE	1	
D6017	MA132WA	DIODE	1	
D6019	MA132WA	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D6020	MA728	DIODE	1	
D6021,22	MA132WA	DIODE	2	
D6023	MA728	DIODE	1	
D6025-27	MA132WA	DIODE	3	
D6201	MA111	DIODE	1	
FP701	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
FP2001	VJS3911A007	CONNECTOR (FEMALE) 7P	1	
FP2002	VJS2959B018	CONNECTOR (FEMALE) 18P	1	
FP4001	VJS2958D009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3913B012P	CONNECTOR (FEMALE) 12P	1	
FP6001	VJS2959B013	CONNECTOR (FEMALE) 13P	1	
FP6001	VJS2959B018	CONNECTOR (FEMALE) 18P	1	
FP6002	VJS2959B006	CONNECTOR (FEMALE) 6P	1	
FP6003	VJS3930B021	CONNECTOR (FEMALE) 21P	1	
FP6004	VJS3954B008	CONNECTOR (FEMALE) 8P	1	
FP6006	VJS3931B024	CONNECTOR (FEMALE) 24P	1	
IC301	F712524APBW	IC	1	
IC302	M62366GP	IC	1	
IC303	XC62FP3302MR	IC	1	
IC304	BU2990-02	IC	1	
IC305	TC7W74FU	IC	1	
IC313	MN7E002B2S1	IC	1	
IC314	M52948FP	IC	1	
IC315	MN31121SA	IC	1	
IC316	XC62FP3002MR	IC	1	
IC701,02	TB6526AF	IC	2	
IC706	NJM2115VA	IC	1	
IC711	TA75W01FU	IC	1	
IC1001	BA9706K	IC	1	
IC2201	TB6538F	IC	1	
IC2202,03	UN224	TRANSISTOR-RESISTOR	2	
IC3001	HA118803F	IC	1	
IC5001	AN3355FHP	IC	1	
IC5501	MSM7470-73MS	IC	1	
IC6002	S3514AEFSTB	IC	1	
IC6003	MN103004JBA	IC	1	
IC6004	XC62FP3702MR	IC	1	
IC6005	BA6289F	IC	1	
IC6006	TA75W393FU	IC	1	
IC6007	S80821ANNP	IC	1	
IC6008	AK6480AF	IC	1	
IC6009	S80825ANNP	IC	1	
IC6010	XC62FP2602PR	IC	1	
IC6011	XC62FP3002MR	IC	1	
IC6201	BA8400FV	IC	1	
IC6202	XC62FP3002MR	IC	1	
L301	VLQ0319K100	COIL 10UH	1	
L302	VLQ0426J220	COIL 22UH	1	
L303	ELJFA390JB	COIL 39UH	1	
L304	VLQ0426J2R2	COIL 2.2UH	1	
L305	ELJPA470KB	COIL 47UH	1	
L306	VLQ0426J220	COIL 22UH	1	
L316	VLQ0426J6R8	COIL 6.8UH	1	
L322	VLQ0426J470	COIL 47UH	1	
L703	VLQ0319K100	COIL 10UH	1	
L1001	VLQ0833M4R7	COIL 4.7UH	1	
L1002	VLQ0827M220	COIL 22UH	1	
L1003	VLQ0834M4R7	COIL 4.7UH	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0827M470	COIL 47UH	1	
L1008	VLQ0319M4R7	COIL 4.7UH	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1014	VLQ0319K100	COIL 10UH	1	
L1015	ELJPA470KB	COIL 47UH	1	
L1061,62	VLQ0827M330	COIL 33UH	2	
L3002	VLQ0319K100	COIL 10UH	1	
L3003	ELJFA820JB	COIL 82UH	1	
L3004	VLQ0426J120	COIL 12UH	1	
L4005	VLQ0319K101	COIL 100UH	1	
L5001-04	ELJPA470KB	COIL 47UH	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L5501	ELJPA470KB	COIL 47UH	1	
L5502	ELJFA100JB	COIL	1	
L5503	ELJFC120ZB	CHIP INDUCTOR	1	
L5504	ELJFA390JB	COIL 39UH	1	
L5506	ELJPA470KB	COIL 47UH	1	
L5507	ELJFA121JB	COIL 120UH	1	
L6201	ELJPA470KB	COIL 47UH	1	
LB302-04	VLP0175	COIL	3	
LB309,10	VLP0153	COIL	2	
LB312	VLP0175	COIL	1	
LB1601,02	VLP0307	COIL	2	
LB8001-04	VLP0153	COIL	4	
P1001	VJP3172B004	CONNECTOR (MALE) 4P	1	
PP301	VJP3358A012	CONNECTOR (MALE) 12P	1	
PP3001	VJP3359D040	CONNECTOR (MALE) 40P	1	
PS1003	VJS4005B006	CONNECTOR (FEMALE) 6P	1	
PS3009	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
Q201	XP4601	TRANSISTOR-TRANSISTOR	1	
Q301	XP4401	TRANSISTOR	1	
Q701-03	IMT17T110	TRANSISTOR	3	
Q704	2SD601A	TRANSISTOR	1	
Q706	IMT17T110	TRANSISTOR	1	
Q707	2SB798	TRANSISTOR	1	
Q708	XP4501	TRANSISTOR-TRANSISTOR	1	
Q1001	2SB1073	TRANSISTOR	1	
Q1003	MPL1	TRANSISTOR	1	
Q1004	2SD2210	TRANSISTOR	1	
Q1010	2SB1462-R	TRANSISTOR	1	
Q1061,62	MPL1	TRANSISTOR	2	
Q3001	XP4501	TRANSISTOR-TRANSISTOR	1	
Q3002	XP4401	TRANSISTOR	1	
Q3010	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4001	XP6401	TRANSISTOR	1	
Q4002	2SD802-R	TRANSISTOR	1	
Q4003	2SB1219	TRANSISTOR	1	
Q4004	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4006	2SB1462-R	TRANSISTOR	1	
Q4007	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4009	2SD2216	TRANSISTOR	1	
Q4014	XP4601	TRANSISTOR-TRANSISTOR	1	
Q4801	2SD2216	TRANSISTOR	1	
Q4802	XP4501	TRANSISTOR-TRANSISTOR	1	
Q5001,02	XN4504	TRANSISTOR-TRANSISTOR	2	
Q5003	2SA812	TRANSISTOR	1	
Q5501	2SD2216	TRANSISTOR	1	
Q5502	2SB1462-R	TRANSISTOR	1	
Q5504	2SD2216	TRANSISTOR	1	
Q6001	2SD1030	TRANSISTOR	1	
Q6002	2SB1462-R	TRANSISTOR	1	
Q6003	2SD2216	TRANSISTOR	1	
Q6004	2SD874	TRANSISTOR	1	
Q6006	XP1501	TRANSISTOR-TRANSISTOR	1	
QR301	MRN2103	TRANSISTOR-RESISTOR	1	
QR302	MRN2107	TRANSISTOR-RESISTOR	1	
QR304	XP1213	TRANSISTOR-RESISTOR	1	
QR701	MRN1102	TRANSISTOR-RESISTOR	1	
QR1001	MRN2102	TRANSISTOR-RESISTOR	1	
QR1005	UN9217	TRANSISTOR-RESISTOR	1	
QR1081	MRN2111	TRANSISTOR-RESISTOR	1	
QR1701	UN2130X	TRANSISTOR-RESISTOR	1	
QR2002	MRN1111	TRANSISTOR-RESISTOR	1	
QR4003	MRN2103	TRANSISTOR-RESISTOR	1	
QR4004	XP1215	TRANSISTOR-TRANSISTOR	1	
QR4005	MRN1104	TRANSISTOR-RESISTOR	1	
QR4008	MRN1104	TRANSISTOR-RESISTOR	1	
QR5502	MRN1103	TRANSISTOR-RESISTOR	1	
QR6001	MRN2107	TRANSISTOR-RESISTOR	1	
QR6004	XP4115	TRANSISTOR-RESISTOR	1	
QR8005	MRN2103	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR6007	MRN1102	TRANSISTOR-RESISTOR	1	
QR6008	MRN1107	TRANSISTOR-RESISTOR	1	
QR6009	UN9210	TRANSISTOR-RESISTOR	1	
QR6012	UN9110	TRANSISTOR-RESISTOR	1	
QR6013	MRN2111	TRANSISTOR-RESISTOR	1	
QR6014	MRN1111	TRANSISTOR-RESISTOR	1	
QR6050	XP1213	TRANSISTOR-RESISTOR	1	
QR6801	MRN2111	TRANSISTOR-RESISTOR	1	
R301	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R303,04	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R305	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R308	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R309	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R310,11	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R312	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R314	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R315	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R317	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R318	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R319	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R321	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R323	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R324	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R325	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R326	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R328	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R329	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R330	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R332	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R334	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R335	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R336	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R337	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R338	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R339	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R340	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R344,45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R346	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R347	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R358	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R359	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R360	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R361	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R363	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R364,65	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	2	
R370	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R371	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R373	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R378	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R377	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R379	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R380	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R381	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R382	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R386	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R394	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R398	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R400	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R401	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R701-04	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	4	
R705	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R708	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R707	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R708	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R709	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R711	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R712	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R713	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R716	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R717	ERJ3GEYJ580	M.RESISTOR CH 1/16W 58	1	
R718	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R722	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R723	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R726	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R727	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R728	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R729	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R730	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R731	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R732	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R733	ERJ3GEYJ584	M.RESISTOR CH 1/16W 580K	1	
R734,35	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R736,37	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	2	
R738	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R740	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R743	ERJ3RBD762	M.RESISTOR CH 1/16W 7.5K	1	
R745	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R761	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R1001	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1002	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1005	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1008	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1007	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
R1008	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1009	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R1012	ERJ8RHD1872	M.RESISTOR CH 1/10W 18.7K	1	
R1013	ERJ8RBD473	M.RESISTOR CH 1/10W 47K	1	
R1014,15	ERJ8RBD182	M.RESISTOR CH 1/10W 1.8K	2	
R1016	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R1017	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1018	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R1019	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1020	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R1021	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R1022	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R1023	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1024	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1025	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1035	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1038	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1039	ERJ3RBD581	M.RESISTOR CH 1/16W 580	1	
R1040	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1	
R1052	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R1057	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1063	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1064,65	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R1066	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1068	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1071	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1072	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1073	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1085,86	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
△ R1601	VSF0226D26T	FUSE	1	
R1602	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1603	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R1699	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R1703	ERJ3GEYJ301	M.RESISTOR CH 1/16W 300	1	
R1726	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1727	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1805-07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R2001,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R2010	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2012	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R2019,20	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	2	
R2201	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R2202	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R2203	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R2205	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2206	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2207	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2209	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R2210	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2211	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R2212	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2213	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R5004	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2216	ERJ8RQRJ22	M.RESISTOR CH 1/8W 0.22	1		R5005	ERJ3GEYJ113	M.RESISTOR CH 1/16W 11K	1	
R3001	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R5007	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3004	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R5008	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7	1	
R3005	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R5500	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3006	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1		R5502	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R3007	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1		R5505	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3008	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R5508	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3009	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		R5509	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3010	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1		R5510	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3020	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R5513	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2K	1	
R3022	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R5514	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3023	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R5515	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3025	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1		R5516	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3026	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		R5517	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3030	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1		R5521	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R3034	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R5522	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3050	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R5523	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3057	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R5524	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3058	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R5526,27	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R3059	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1		R6001	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3060	ERJ3RED820	M.RESISTOR CH 1/16W 82	1		R6002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		R6003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4002	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1		R6004	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R4004	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1		R6005	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4005	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1		R6006	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4006	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R6007	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4007	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R6010	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4008	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R6011	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4009	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2K	1		R6012	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4010	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1		R6013	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4011	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R6014	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4012	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1		R6015	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4013	ERJ3GEYJ690	M.RESISTOR CH 1/16W 68	1		R6016	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4014	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1		R6017	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R4015,16	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	2		R6020	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4017	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	1		R6021-23	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	3	
R4018	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R6024	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4019	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1		R6025	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4020	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R6026	ERJ3GEYJ223	M.RESISTOR CH 1/16W 2.2K	1	
R4021	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1		R6027	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R4022	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R6029	ERJ3GEYJ304	M.RESISTOR CH 1/16W 30K	1	
R4023	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R6030	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4024	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R6031	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4025,26	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2		R6032	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4027,28	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	2		R6033	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4029	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1		R6034	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4030	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R6035	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4031	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1		R6036,37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4032	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1		R6038	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4033	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1		R6041	ERJ8GEYJ120	M.RESISTOR CH 1/8W 12	1	
R4034	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R6042	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4035	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R6043	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R4036	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R6046	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4037	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1		R6048,49	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4038	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1		R6050	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4040	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R6052	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4041	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1		R6053	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4042	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R6056	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4050	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1		R6058	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4060	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R6059	ERJ3RBD433	M.RESISTOR CH 1/16W 47K	1	
R4801	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1		R6060	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4802	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1		R6061	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4803	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1		R6062,63	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4804	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1		R6064	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	1	
R4805	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1		R6065	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4806	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R6066	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4807	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R6067	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4808,09	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	2		R6068	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R4811	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6069	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4814	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R6070	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4815	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1		R6075	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4830	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R6078	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		R6079	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5002,03	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2		R6080	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6081	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6082	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6083	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6084	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6085,86	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R6087	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R6088,89	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R6090	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R6092	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6093	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6094	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6095	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6097	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6099	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6100	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6101	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6103	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6104	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6105	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6106	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R6107	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R6108	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6109	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6110	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R6111	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R6112	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6113-15	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	3	
R6116	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6117	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6118	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6119,20	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6121	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6122	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R6123	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6124	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R6125	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R6126	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R6127	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R6128	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R6129,30	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R6131	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6132,33	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R6203	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R6204	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R6205	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R6206	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6207	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6211	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6801	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
R6802	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
RA301	EXBV4V104J	RESISTOR-RESISTOR	1	
RA704	EXBV4V473J	RESISTOR-RESISTOR	1	
RA6001	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6002	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6003	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6004	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6006	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6007	EXBV8V683J	RESISTOR-RESISTOR	1	
RA6008	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6009	EXBV4V222J	RESISTOR-RESISTOR	1	
RA6010	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6011	EXBV4V683J	RESISTOR-RESISTOR	1	
T1001	ELL04T079R	CHOKE COIL	1	
T4001	EQQ6QB009T	TRANSFORMER	1	
X301	VSX1029-T	CRYSTAL OSCILLATOR	1	
X8001	VSX0917	CRYSTAL OSCILLATOR	1	
X8003	VSX0801	CRYSTAL OSCILLATOR	1	
VEP28259A	E.V.F. C.B.A.	(RTL)		
C801	ECQV1H104JL	P.CAPACITOR 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C802	ECA1CKF470	E.CAPACITOR 16V 47U	1	
C803,04	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C805	ECEA0JKE221	E.CAPACITOR 6.3V 220U	1	
C806	ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C807	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C809	ECA1CKF470	E.CAPACITOR 16V 47U	1	
C811	VCEA1ACC101	E.CAPACITOR 10V 100U	1	
C812	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C813	ECUM2J221KBM	C.CAPACITOR CH 830V 220P	1	
C814	VCEA1HCC010	E.CAPACITOR 10V 100U	1	
C815	ECUM2H331KBM	C.CAPACITOR CH500V 330P	1	
C816	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C818	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C831,32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C833	ECUM2A472JUM	C.CAPACITOR CH100V 4700P	1	
D803	MA142WA	DIODE	1	
D804	MA143A	DIODE	1	
IC801	AN2516S	IC	1	
L801	ELJPA220KB	COIL 22UH	1	
L802	ELH5L3101	COIL	1	
L804	VLQ0426J880	COIL 68UH	1	
L806	VLQ0426J330	COIL 33UH	1	
P801	VJP1597T	CONNECTOR (MALE) 4P	1	
P802	VJP3318A004	CONNECTOR (MALE) 4P	1	
P803	VJP1586T	CONNECTOR (MALE) 3P	1	
P804	VJP1229A	CONNECTOR (MALE) 2P	1	
Q802	2SD968A-S	TRANSISTOR	1	
Q803,04	2SB1218A	TRANSISTOR	2	
R801	ERJ6ENF4422	M.RESISTOR CH 1/10W 2.2K	1	
R802	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R804	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R806	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R807	ERJ8GEYJ150	M.RESISTOR CH 1/10W 15	1	
R808	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R809	ERJ8GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R810	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R811	ERJ8GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R815	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R816	ERJ8GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R817	ERJ8GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R818	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R819	ERJ8GEYJ275	M.RESISTOR CH 1/8W 2.7M	1	
R820	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	1	
R821	ERJ8GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R823	ERJ6GEYJ8R2	M.RESISTOR CH 1/10W 8.2	1	
R829	ERJ6ENF4222	M.RESISTOR CH 1/10W 2.2K	1	
R833	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R834	ERJ8GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R835	ERJ8GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R836	ERJ8GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R840	ERJ8GEYJ106	M.RESISTOR CH 1/8W 10M	1	
R841	ERJ8GEYJ825	M.RESISTOR CH 1/8W 8.2M	1	
R842	ERJ8GEYJ106	M.RESISTOR CH 1/8W 10M	1	
R843	ERJ8GEYJ825	M.RESISTOR CH 1/8W 8.2M	1	
R844	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	1	
R845	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R850	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R851	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R852	ERJ8GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R853	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
S801	VEE0C17	CRT SOCKET	1	
T801	ETF08L202A	FLYBACK TRANSFORMER	1	
VR801	VRV0292B221	VARIABLE RESISTOR	1	
VR803	EVMLSGA00BV6	TRIMMER POTENTIOMETERS	1	
VR804	VRV0292B474	VARIABLE RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	■ VEP22276B	CCD FLEX. CARD C.B.A.		(RTL)					
C292	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1						
C293	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1						
C295	ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1						
D291	MA153	DIODE	1						
PS291	VJS3500C012	CONNECTOR (FEMALE) 12P	1						
Q291	2SC2295	TRANSISTOR	1						
R291	ERJ6GEYJ560	M.RESISTOR CH 1/10W 56	1						
R292	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1						
		MISCELLANEOUS							
	VJB22276	FLEX. CARD	1						
	■ VEP00289A	SMALL LCD DRIVE C.B.A.		(RTL)					
C8801	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1						
FP6601	VJS3320B020	CONNECTOR (FEMALE) 20P	1						
FP6602	VJS3913B006B	CONNECTOR (FEMALE) 6P	1						
IC6601	BU9729K	IC	1						
R6601	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1						
	■ VEK8577	MIC UNIT		NV-RX17EG/E/EN/ENH NV-RX14B					
D6802	PH310	DIODE	1						
FP6801	VJS3913A012	CONNECTOR (FEMALE) 12P	1						
VR6801	VRV0294	MF VOLUME	1						
W6801	VWJ0121	FLAT CARD CABLE	1						
		MISCELLANEOUS							
	VEK8322	WIRE CABLE	1						
	VQG3206	SENSOR HOLDER	1						
	VGU7720	MF KNOB	1						
	XQN16+BJ4	SCREW	1						
	VWJ12SW050LL	FLAT CARD CABLE	1						
	■ VEK8578	MIC UNIT		NV-RX18EG/B/EN					
C6801	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1						
D6801	BR2202S-20B1	DIODE	1						
D6802	PH310	DIODE	1						
D6805,06	MA165VT	DIODE	2						
FP6801	VJS3913A012	CONNECTOR (FEMALE) 12P	1						
IC6801	RPM6837-V4	IC	1						
VR6801	VRV0294	MF VOLUME	1						
W6801	VWJ0121	FLAT CARD CABLE	1						
		MISCELLANEOUS							
	VEK8322	WIRE CABLE	1						
	VQG3206	SENSOR HOLDER	1						
	VGU7720	MF KNOB	1						
	XQN16+BJ4	SCREW	1						
	VWJ12SW050LL	FLAT CARD CABLE	1						
	VEUF8B040KK	CABLE	1						

 KQ8Q	Door No. 3	 51
	Drop No. 0	
Customer: TECHNICA42		
Load: SPOWE1		
Model: VMD00B12005C8	Qty: 1	
Assemble at: 60	05/07/00	

Panasonic
MATSUSHITA ELECTRIC