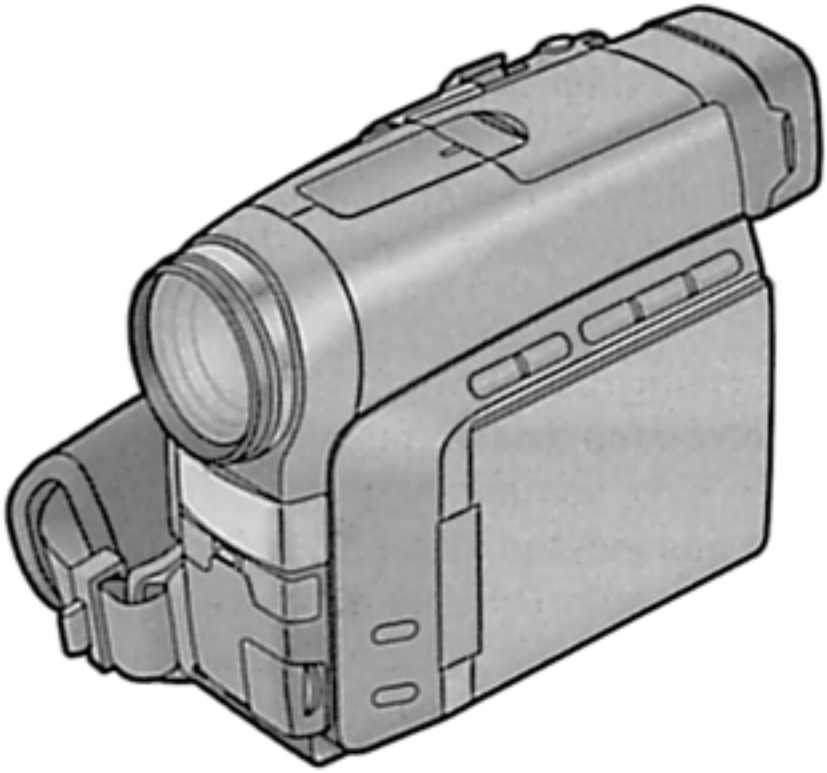
Service Manual



Panasonic **simple**

NV-EX3

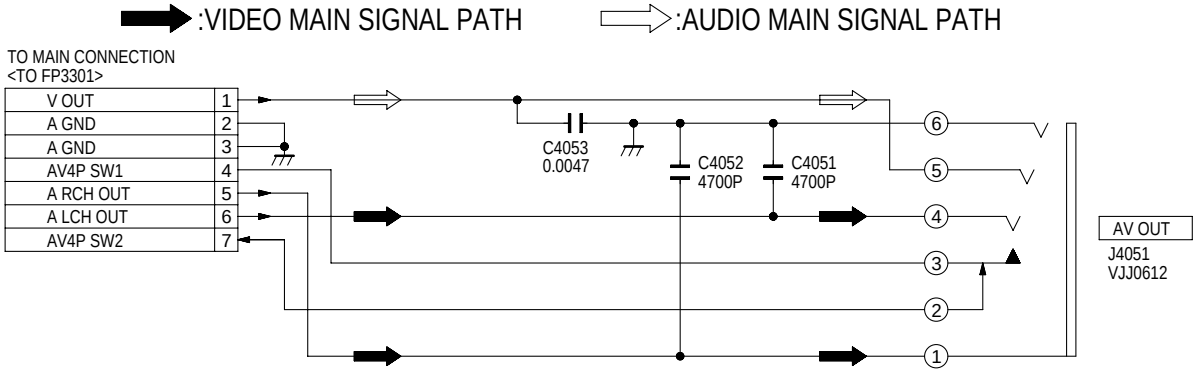
1.Руководство
2.Блок-схема
3.Электрическая схема
4.Печатные платы
5.Осциллограммы
6.Механика

SPECIFICATIONS

ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption: During Camera Recording Using The LCD Monitor; 4.9 W During Camera Recording Using The Viewfinder; 4.1 W
RECORDING FORMAT	Digital Video SD Format
TAPE FORMAT	Mini DV Cassette Tape (Tape width 6.35 mm)
TAPE SPEED	SP mode : 18.83 mm/s LP mode : 12.57 mm/s Record/Playback Time: SP mode ; 80 min. with DVM80 LP mode ; 120 min. with DVM80
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)
	STANDARD ILLUMINATION: 1,400 lx
	MINIMUM REQUIRED ILLUMINATION: 1 lx (Digital Gain-up Mode)
	LENS: 10 : 1 Power Zoom, Auto Iris, F1.8, Macro (Full Range AF) Focal Length; 3.6-36 mm Filter Diameter; 27.0 mm
	IMAGE SENSOR: 1/4-inch CCD Image Sensor
	VIEWFINDER: 0.5-inch Colour Electronic Viewfinder 2.5-inch Colour LCD Monitor
VIDEO	RECORDING FORMAT: Digital Component
	TELEVISION SYSTEM: CCIR; 625 Lines, 50 Fields PAL Colour Signal
	VIDEO OUTPUT LEVEL: 1.0 Vp-p, 75Ω S-VIDEO OUTPUT LEVEL: Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p, 75Ω (OUTPUT TERMINAL BOX)

ITEM	SPECIFICATION
AUDIO	RECORDING FORMAT: PCM Digital Recording; 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch)
	MIC IN LEVEL: -70 dBV / 5.6 kΩ OUTPUT LEVEL: 316 mV, 600 Ω
DIGITAL STILL PICTURE	Digital Still Picture Output, Control Signal Input / Output (Transfer rate: max. 115 kbps)
DIGITAL INTERFACE	DV Output Terminal (i. LINK, 4 pin)
MICROPHONE	Stereo
SPEAKER	1 round speaker φ20 mm
OPERATING TEMPERATURE	0-40 °C
OPERATING HUMIDITY	10-80 %
WEIGHT	Approx. 400 g (without Battery Pack)
DIMENSIONS	Approx. 49 (W) x 108 (H) x 86 (D) mm
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack Unit 1 pc. S-VIDEO Cable 1 pc. Hand Strap 1 pc. DC Input Cable 1 pc. AC Mains Cable 1 pc. AV Cable 1 pc. Remote Controller 1 pc. Button-Type Battery 1 pc. Output Terminal Box 1 pc. Cleaning Tissue 1 pc. 21-Pin Adaptor 1 pc. AV 4P Cable 1 pc. Hand Grip 1 pc. Headphone Adaptor 1 pc. Step-Up Ring

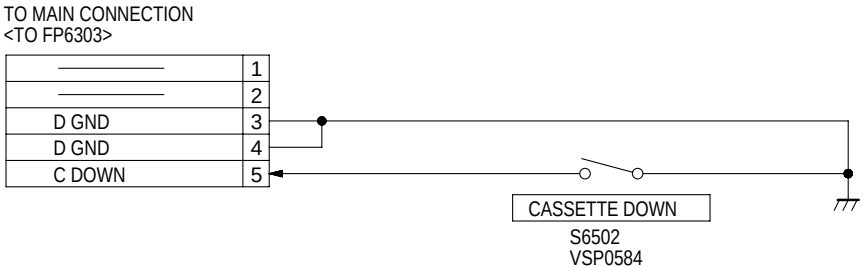
Weight and dimensions shown are approximate.
Specifications are subject to change without notice.



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

A

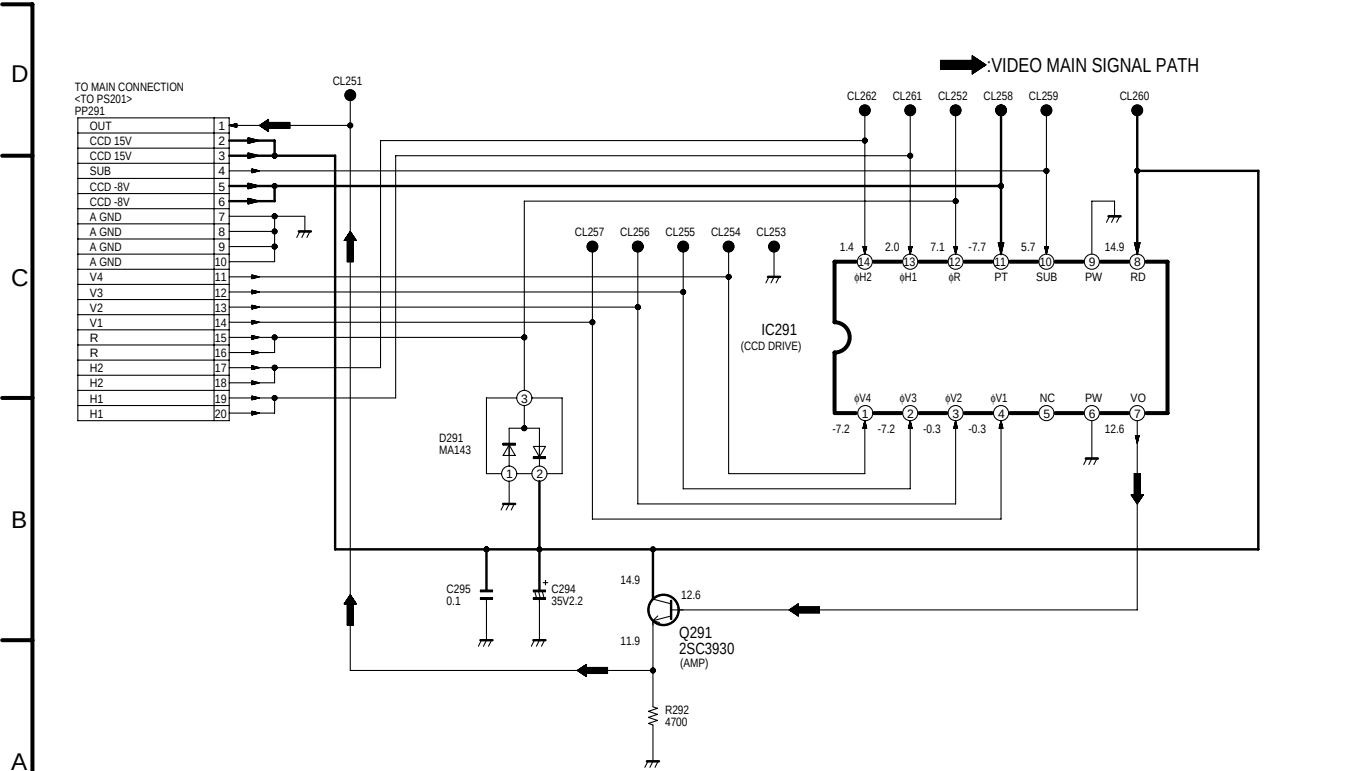
1 2 3 4



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

A

1 2 3



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.

:CAPSTAN SERVO SPEED LOOP :CAPSTAN SERVO PHASE LOOP :CYLINDER SERVO SPEED LOOP :CYLINDER SERVO PHASE LOOP

TO MAIN CONNECTION
<TO PP2001>
PS2001

IR OUT	1	B1
REMOTE CTL	2	B2
TALLY	3	B3
	4	
	5	
	6	
CYL PG	7	A1
CYL FG	8	A2
CAP FG	9	A3
CYL ERR	10	A4
CAP ERR	11	A5
	12	
D GND	13	
D GND	14	
D GND	15	
T PHOTO	16	B4
S PHOTO	17	B5
MIC VDD	18	
MIC DT	19	B6
S REEL(+)	20	B7
S REEL(-)	21	B8
M VH(+)	22	
T REEL(+)	23	B9
T REEL(-)	24	B10
MIC CLK	25	B11
SNS LED	26	B12
S TAB	27	B13
CLK	28	B14
SYS 5V	29	
SYS 5V	30	
C OUT	31	B15
DET1	32	B16
V OUT	33	B17
V GND	34	
V GND	35	
Y OUT	36	B18
V GND	37	
CN Ⓗ	38	B19
UART I	39	B20
UART O	40	B21
SE GND	41	
SE GND	42	
A GND	43	
A GND	44	
AR IN	45	B22
AL IN	46	B23
A GND	47	
A GND	48	
DET2	49	B24
AR OUT	50	B25
AL OUT	51	B26
DATA	52	B27
CAMERA SW	53	B28
NOREG	54	
NOREG	55	
NOREG	56	
NOREG GND	57	
NOREG GND	58	
CYL GND	59	
CYL GND	60	
CYL VM	61	
CYL VM	62	
CAP VM	63	
CAP VM	64	
DRIVE 3V	65	
DRIVE 3V	66	
DRIVE 3V	67	
TORQE LIMIT	68	A6
DRIVE CLK	69	A7
CYL RSF	70	A8
CAP RSF	71	A9
CYL SW	72	A10
CAP SW	73	A11
TRI WAVE	74	A12
	75	
	76	
SP OUT2	77	B29
SP OUT2	78	
SP OUT1	79	B30
SP OUT1	80	

TO MECHA UNIT
FP2203

T PHOTO	1	B4
S 3V	2	
S PHOTO	3	B5
S 3V	4	
S REEL(+)	5	B7
S REEL(-)	6	B8
MIC VDD	7	
MIC DT	8	B6
M VH(+)	9	
T REEL(+)	10	B9
T REEL(-)	11	B10
M VH(-)	12	
MIC CLK	13	B11
SNS LED	14	B12
CAP GND	15	
D GND	16	
D GND	17	
S TAB	18	B13

R6801 180
R2208 27K
R2207 1200
R2206 2200
C2214 0.01
C2213 0.01
C2212 6.3V10
R2205 0.27
C2216 6.3V10
R2217 33K
R2227 68K
C2217 1
C2218 47P
C2220 1000P
R2209 82K
R2211 47K
R2210 1K
R2212 1K
C2219 1
C2221 1
R2201 220K
R2202 1K
C2202 1
C2203 3300P
R2203 220K
R2204 1K
C2205 1
C2206 3300P
C2207 330P
C2208 0.01
C2209 0.01
C2210 1
R2218 10K
R2216 0.33
R2213 100
C2227 6.3V10
C2223 0.1
C2222 0.1
C2233 0.1
C2224 0.1
C2226 0.1
C2225 0.1

IC2202
UN224
(CAP DRIVE)

IC2201
TB6534F
(CYL/CAP DRIVE)

IC2203
UN224
(CYL DRIVE)

HOLE AMP MATRIX
SW REG DRIVER
SW REG DRIVER
CVM UNDER LIMIT DET
CVM SHORT PROTECT DET
YVM SHORT PROTECT DET
YVM UNDER LIMIT DET
ADDER
ADDER
ADDER
ADDER
SENSORLESS LOGIC
SLOPE SHAPER
INDUCTION VOLTAGE DET
UPPER VCE DET
LOWER VCE DET
LOWER DRIVE
UPPER DRIVE
UPPER SIDE DRIVE
LOWER SIDE DRIVE
UPPER SIDE VCE DET
LOWER SIDE VCE DET

FP2201

	1	M1
	2	M1
(A18)	3	H3(-)
	4	C VH(+)
(A17)	5	H3(+)
(A14)	6	H1(-)
(A16)	7	H2(-)
(A13)	8	H1(+)
	9	M2
	10	M2
	11	C VH(-)
(A15)	12	H2(+)
	13	M3
	14	M3
	15	VMR
	16	AFG1
	17	D GND
	18	AFG2

CAP

FP2202

	10	PG(+)
	9	D GND
	8	M3A
	7	M3A
	6	M1A
	5	M1A
	4	M2A
	3	M2A
	2	COM
	1	FG(+)

CYL

TO FRONT
(Page:68/B-1)
FP6304

	1	S 5V
B2	2	REMOTE CTL
B1	3	IR OUT
	4	D GND
	5	D GND
	6	
	7	
	8	
	9	
	10	
	11	
B29	12	SP OUT2
	13	SP OUT2
B30	14	SP OUT1
	15	SP OUT1
	16	SE GND
B3	17	TALLY
	18	D GND

MULTI JACK CONNECTOR
PS3801

B21	28	UART O
	27	232C GND
B19	26	CN Ⓗ
B20	25	UART I
B23	24	AL IN
	23	A GND
	22	
B22	21	AR IN
	20	V GND
	19	
B24	18	DET2
	17	
	16	
	15	SE GND
	14	SE GND
B17	13	V OUT
B26	12	AL OUT
B16	11	DET1
B15	10	C OUT
B25	9	AR OUT
	8	V GND
B18	7	Y OUT
	6	
	5	SYS GND
B27	4	DATA
	3	SYS 5V
B28	2	CAMERA SW
B14	1	CLK

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

:VIDEO MAIN SIGNAL PATH

TO MAIN CONNECTION
<TO PS801>
PP801

E BL 6V	1
EVF 12V	2
EVF 5V	3
GND	4
E FRP	5
E G OUT	6
CR OUT	7
CB OUT	8
CHR G	9
MON E PLL	10
E CONTRAST	11
E SUBC R	12
E SUB R	13
EVF ON (H)	14
EVF HD	15
V BLK	16
E PLL	17
E SUB B	18
E SUBC B	19
E GAMMA1	20
E BRIGHT	21
CHR B	22
CHR R	23
LCD Y	24
E B OUT	25
E R OUT	26
GND	27
EVF 3V	28
NOREG GND	29
NOREG GND	30

TO FRAME GND JA5 JA4

Q608 2SB970X (SWITCHING EVF 5V)
Q602 2SB970X (SWITCHING EVF 12V)
Q610 2SD2216 (EVF ON (H) :ON)
Q601 2SB970X (SWITCHING EVF 3V)
QR604 UN9212 (EVF ON (H) :ON)
QR601 UN9212 (EVF ON (H) :ON)

IC602
IR3Y35M
(VIDEO SIGNAL PROCESSOR)

1	B IN	36	VCC2
2	G IN	35	S CONT R
3	R IN	34	S CONT B
4	Y IN	33	CONTRAST
5	CB	32	P-SAVE
6	CR	31	BLK
7	R-Y/CR SW	30	FRP
8	COLOUR	29	RGB AMP
9	RGB SW	28	S-BRI R
10	OSD B	27	S-BRI B
11	OSD G	26	V REF
12	OSD R	25	VCC3
13	PICTURE	24	B OUT
14	H SYNC	23	B DC DET
15	TC1	22	G OUT
16	TC2	21	G DC DET
17	GND3	20	R OUT
18	GND1	19	R DC DET
37	S/H B	42	VCC1
38	S/H G	41	GND2
39	S/H R	40	S/H RGB
43	BRIGHT	44	GAMMA-G
45	GAMMA1	46	GAMMA2
47	BLACK LIM	48	WHITE LIM

IC802
TA75S558F

IC801
ET2071FOA
(EVF LCD DRIVE)

1	VSS	36	VSS
2	OSC I	35	CLO
3	OSC O	34	NC
4	VSS	33	ENABLE
5	PCO	32	SB
6	OFH	31	DY
7	V MODE	30	CLY
8	W MODE	29	/CLY
9	SBLD	28	CLX
10	BLD IN	27	/CLX
11	BLD	26	DX
12	VSS	25	VSS
13	VDD2	24	VDD1
14	WBLD1	23	TEST6
15	WBLD2	22	TEST5
16	WBLD3	21	TEST4
17	PS MODE	20	TEST3
18	TEST1	19	TEST2
37	VDD2	42	VDD1
38	HD OUT	41	BLK
39	HV SW	40	FRP
43	SY MODE	44	H SYNC
45	V SYNC	46	MH SYNC
47	MV SYNC	48	VD OUT

FP801

LC COM	1	1	LC COM
ENABLE	2	2	ENABLE
SB	3	3	SB
DY	4	4	DY
VGG Y	5	5	VGG Y
CLY	6	6	CLY
/CLY	7	7	/CLY
VID-B	8	8	VID-B
VID-R	9	9	VID-R
VID-G	10	10	VID-G
VGG X	11	11	VGG X
CLX	12	12	CLX
/CLX	13	13	/CLX
VSS Y	14	14	VSS Y
VSS X	15	15	VSS X
DX	16	16	DX
VDD	17	17	VDD
E BL 6V	18	18	E BL 6V
NOREG GND	19	19	NOREG GND
BL P	20	20	BL P

E.V.F.(B) C.B.A.(VEP28265A)

FP802

LC COM	1	1	LC COM
ENABLE	2	2	ENABLE
SB	3	3	SB
DY	4	4	DY
VGG Y	5	5	VGG Y
CLY	6	6	CLY
/CLY	7	7	/CLY
VID-B	8	8	VID-B
VID-R	9	9	VID-R
VID-G	10	10	VID-G
VGG X	11	11	VGG X
CLX	12	12	CLX
/CLX	13	13	/CLX
VSS Y	14	14	VSS X
VSS X	15	15	DX
DX	16	16	VDD
VDD	17		
E BL 6V	18		
NOREG GND	19		
BL P	20		

TO EVF LCD PANEL

Q820 2SK2055 (BACK LIGHT DRIVE)

JA1 JA2 JA3

E.V.F.(C) C.B.A.(VEP28270A)

T820 ETJ11K90AM

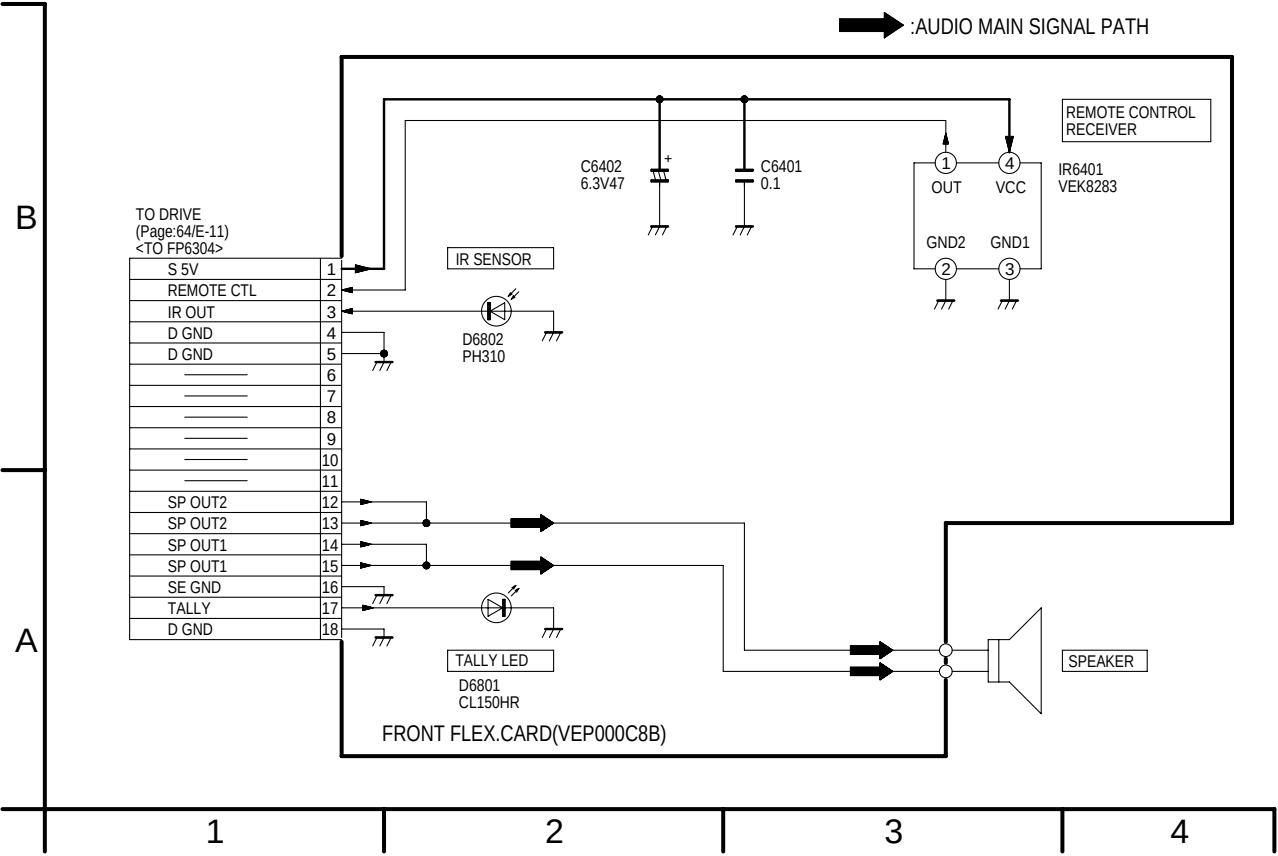
BL820 VLL0214 BACK LIGHT UNIT

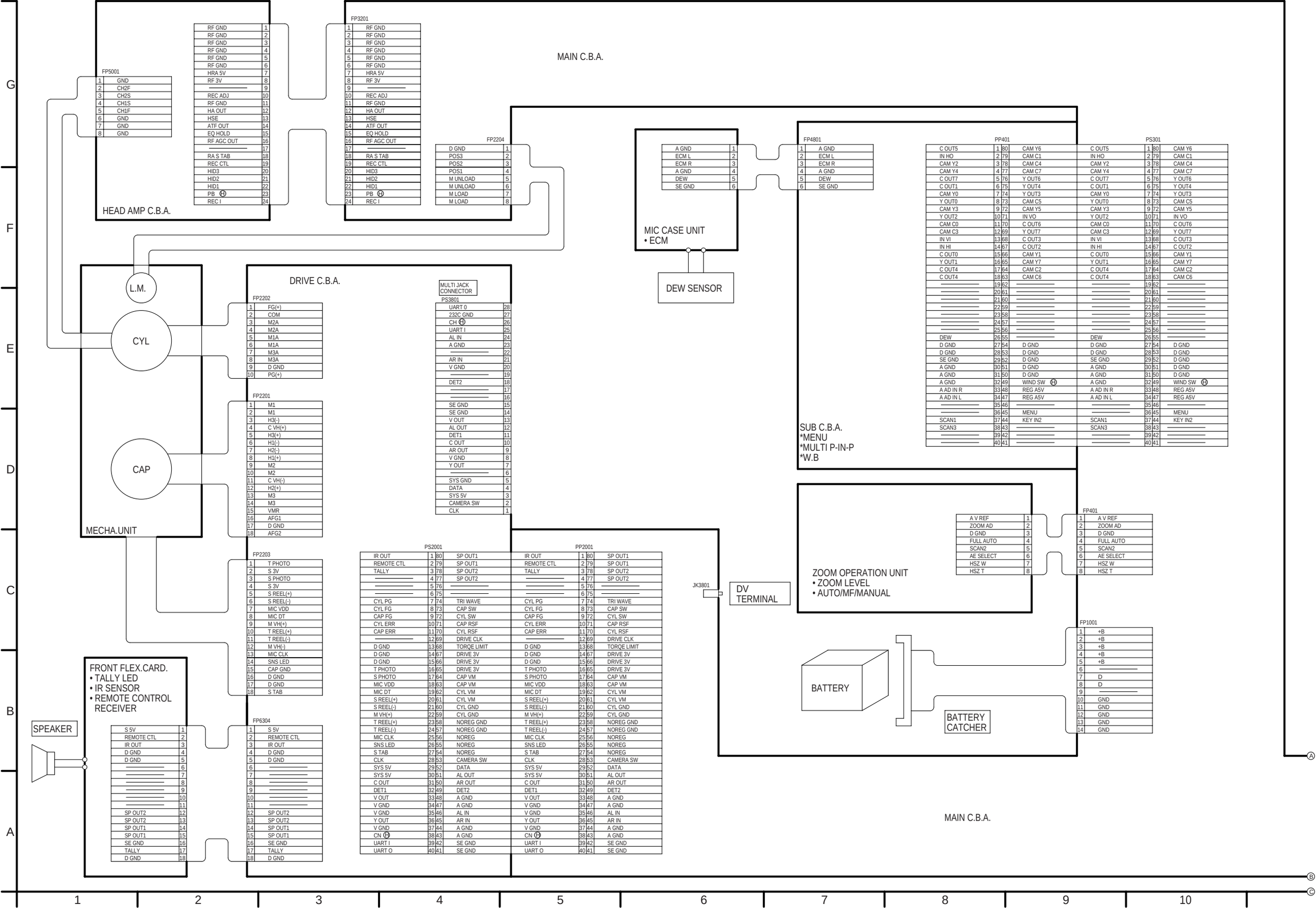
FET D	3
E BL 6V	2
NOREG GND	1

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

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

E.V.F.(A) C.B.A.(VEP28264B)


:AUDIO MAIN SIGNAL PATH
REMOTE CONTROL RECEIVER
C6402
6.3V47
C6401
0.1
IR6401
VEK8283
OUT
VCC
GND2
GND1
TO DRIVE
(Page:64/E-11)
<TO FP6304>
S 5V
REMOTE CTL
IR OUT
D GND
D GND
SP OUT2
SP OUT2
SP OUT1
SP OUT1
SE GND
TALLY
D GND
IR SENSOR
D6802
PH310
TALLY LED
D6801
CL150HR
SPEAKER
FRONT FLEX.CARD(VEP000C8B)
B
A
1
2
3
4


MAIN C.B.A.
HEAD AMP C.B.A.
FP5001
GND
CH2F
CH2S
CH1S
CH1F
GND
GND
GND
RF GND
RF GND
RF GND
RF GND
RF GND
RF GND
HRA 5V
RF 3V
REC ADJ
RF GND
HA OUT
HSE
ATF OUT
EQ HOLD
RF AGC OUT
RA S TAB
REC CTL
HID3
HID2
HID1
PB Ⓗ
REC I
FP3201
FP2204
D GND
POS3
POS2
POS1
M UNLOAD
M UNLOAD
M LOAD
M LOAD
MIC CASE UNIT
• ECM
A GND
ECM L
ECM R
A GND
DEW
SE GND
FP4801
DEW SENSOR
PP401
PS301
C OUT5
IN HO
CAM Y2
CAM Y4
C OUT7
C OUT1
CAM Y0
Y OUT0
CAM Y3
Y OUT2
CAM C0
CAM C3
IN VI
IN HI
C OUT0
Y OUT1
C OUT4
C OUT4
DEW
D GND
D GND
SE GND
A GND
A GND
A GND
A AD IN R
A AD IN L
SCAN1
SCAN3
CAM Y6
CAM C1
CAM C4
CAM C7
Y OUT6
Y OUT4
Y OUT3
CAM C5
CAM Y5
IN VO
C OUT6
Y OUT7
C OUT3
C OUT2
CAM Y1
CAM Y7
CAM C2
CAM C6
D GND
D GND
D GND
D GND
D GND
WIND SW Ⓗ
REG A5V
REG A5V
MENU
KEY IN2
SUB C.B.A.
*MENU
*MULTI P-IN-P
*W.B
L.M.
CYL
CAP
MECHA.UNIT
DRIVE C.B.A.
FP2202
FG(+)
COM
M2A
M2A
M1A
M3A
M3A
D GND
PG(+)
FP2201
M1
M1
H3(-)
C VH(+)
H3(+)
H1(-)
H2(-)
H1(+)
M2
M2
C VH(-)
H2(+)
M3
M3
VMR
AFG1
D GND
AFG2
MULTI JACK CONNECTOR
PS3801
UART 0
232C GND
CH Ⓗ
UART I
AL IN
A GND
AR IN
V GND
DET2
SE GND
SE GND
V OUT
AL OUT
DET1
C OUT
AR OUT
V GND
Y OUT
SYS GND
DATA
SYS 5V
CAMERA SW
CLK
FP2203
T PHOTO
S 3V
S PHOTO
S 3V
S REEL(+)
S REEL(-)
MIC VDD
MIC DT
M VH(+)
T REEL(+)
T REEL(-)
M VH(-)
MIC CLK
SNS LED
CAP GND
D GND
D GND
S TAB
FRONT FLEX.CARD.
• TALLY LED
• IR SENSOR
• REMOTE CONTROL
RECEIVER
SPEAKER
FP6304
S 5V
REMOTE CTL
IR OUT
D GND
D GND
SP OUT2
SP OUT2
SP OUT1
SP OUT1
SE GND
TALLY
D GND
PS2001
PP2001
IR OUT
REMOTE CTL
TALLY
CYL PG
CYL FG
CAP FG
CYL ERR
CAP ERR
D GND
D GND
D GND
T PHOTO
S PHOTO
MIC VDD
MIC DT
S REEL(+)
S REEL(-)
M VH(+)
T REEL(+)
T REEL(-)
MIC CLK
SNS LED
S TAB
CLK
SYS 5V
SYS 5V
C OUT
DET1
V OUT
V GND
V GND
Y OUT
V GND
CN Ⓗ
UART I
UART O
SP OUT1
SP OUT2
TRI WAVE
CAP SW
CYL SW
CAP RSF
CYL RSF
DRIVE CLK
TORQE LIMIT
DRIVE 3V
CAP VM
CYL VM
CYL GND
NOREG GND
NOREG
CAMERA SW
DATA
AL OUT
AR OUT
DET2
A GND
AL IN
AR IN
SE GND
JK3801
DV
TERMINAL
ZOOM OPERATION UNIT
• ZOOM LEVEL
• AUTO/MF/MANUAL
A V REF
ZOOM AD
D GND
FULL AUTO
SCAN2
AE SELECT
HSZ W
HSZ T
FP401
FP1001
+B
D
GND
BATTERY
BATTERY
CATCHER
MAIN C.B.A.
A
B
C
1
2
3
4
5
6
7
8
9
10

AV OUT

J4051

V OUT	1
A GND	2
A GND	3
AV4P SW1	4
A RCH OUT	5
A LCH OUT	6
AV4P SW2	7

AV JACK FLEX C.B.A.

FP3301

1	V OUT	
2	A GND	
3	A GND	
4	AV4P SW1	
5	A RCH OUT	
6	A LCH OUT	
7	AV4P SW2	

FP6303

———	1
———	2
D GND	3
D GND	4
C DOWN	5

1	———	
2	———	
3	D GND	
4	D GND	
5	C DOWN	

CASSETTE DOWN
FLEX.CARD
• CASSETTE DOWN

CAMERA LENS UNIT

FP701

Z AN	1
Z BN	2
Z AP	3
Z BP	4
Z VCC	5
Z MR A	6
Z GND	7
Z MR B	8
FM T(-)	9
FM T(+)	10
MR A	11
MR GND	12
MR B	13
MR VCC	14
H IN(+)	15
H OUT(-)	16
H IN(-)	17
H OUT(+)	18
ALC CNT(-)	19
ALC M(-)	20
ALC CNT(+)	21
ALC M(+)	22
FENC VCC	23
Z ABS	24
LED CONT	25
———	26
———	27

PP291

OUT	1	20	H1	
CCD 15V	2	19	H1	
CCD 15V	3	18	H2	
SUB	4	17	H2	
CCD -8V	5	16	R	
CCD -8V	6	15	R	
A GND	7	14	V1	
A GND	8	13	V2	
A GND	9	12	V3	
A GND	10	11	V4	

PS201

OUT	1	20	H1
CCD 15V	2	19	H1
CCD 15V	3	18	H2
SUB	4	17	H2
CCD -8V	5	16	R
CCD -8V	6	15	R
A GND	7	14	V1
A GND	8	13	V2
A GND	9	12	V3
A GND	10	11	V4

CCD FLEX.
CARD C.B.A.

PS801

E BL 6V	1
EVF 12V	2
EVF 5V	3
GND	4
E FRP	5
E G OUT	6
CR OUT	7
CB OUT	8
CHR G	9
MON E PLL	10
E CONTRAST	11
E SUBC R	12
E SUB R	13
EVF ON Ⓗ	14
EVF HD	15
V BLK	16
E PLL	17
E SUB B	18
E SUBC B	19
E GAMMA1	20
E BRIGHT	21
CHR B	22
CHR R	23
LCD Y	24
E B OUT	25
E R OUT	26
GND	27
EVF 3V	28
NOREG GND	29
NOREG GND	30

PP801

1	E BL 6V	
2	EVF 12V	
3	EVF 5V	
4	GND	
5	E FRP	
6	E G OUT	
7	CR OUT	
8	CB OUT	
9	CHR G	
10	MON E PLL	
11	E CONTRAST	
12	E SUBC R	
13	E SUB R	
14	EVF ON Ⓗ	
15	EVF HD	
16	V BLK	
17	E PLL	
18	E SUB B	
19	E SUBC B	
20	E GAMMA1	
21	E BRIGHT	
22	CHR B	
23	CHR R	
24	LCD Y	
25	E B OUT	
26	E R OUT	
27	GND	
28	EVF 3V	
29	NOREG GND	
30	NOREG GND	

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

FP801

LC COM	1
ENABLE	2
SB	3
DY	4
VGG Y	5
CLY	6
/CLY	7
VID-B	8
VID-R	9
VID-G	10
VGG X	11
CLX	12
/CLX	13
VSS Y	14
VSS X	15
DX	16
VDD	17
E BL 6V	18
NOREG GND	19
BL P	20

1	LC COM	
2	ENABLE	
3	SB	
4	DY	
5	VGG Y	
6	CLY	
7	/CLY	
8	VID-B	
9	VID-R	
10	VID-G	
11	VGG X	
12	CLX	
13	/CLX	
14	VSS Y	
15	VSS X	
16	DX	
17	VDD	
18	E BL 6V	
19	NOREG GND	
20	BL P	

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

1	NOREG GND
2	E BL 6V
3	FET D

E.V.F.(C) C.B.A.
• BACK LIGHT UNIT

FP802

LC COM	16
ENABLE	15
SB	14
DY	13
VGG Y	12
CLY	11
/CLY	10
VID-B	9
VID-R	8
VID-G	7
VGG X	6
CLX	5
/CLX	4
VSS X	3
DX	2
VDD	1

EVF
LCD
PANEL

PS6001

EJECT	1	1	EJECT
———	2	2	———
GND	3	3	GND
PAUSE/STILL	4	4	PAUSE/STILL
SCAN3	5	5	SCAN3
PLAY/BLC	6	6	PLAY/BLC
FF/SERCH(+)	7	7	FF/SERCH(+)
———	8	8	———
SCAN3	9	9	SCAN3
PHOTO SHOT	10	10	PHOTO SHOT
———	11	11	———
GND	12	12	GND
GND	13	13	GND
———	14	14	———
LI BATT(+)	15	15	LI BATT(+)
SCAN1	16	16	SCAN1
MODE	17	17	MODE
SCAN2	18	18	SCAN2
S/S	19	19	S/S
———	20	20	———
CAM SW	21	21	CAM SW
———	22	22	———
GND	23	23	GND
GND	24	24	GND
———	25	25	———
VTR LED	26	26	VTR LED
CAM LED	27	27	CAM LED
SCAN4	28	28	SCAN4
REW/SERCH(-)	29	29	REW/SERCH(-)
STOP/FADE	30	30	STOP/FADE

REAR OPERATION UNIT
• CAMERA LED
• VCR LED
• PHOTO SHOT
• RECORDING START/STOP
• POWER OFF/ON/MODE
• PAUSE
• CASSETTE EJECT

LITHIUM
BATTERY

MULTI
FUNCTION
DIAL
• SHUTTER/
IRIS/MF/
VOL/JOG

PP3001

E R OUT	1	60	———
E G OUT	2	59	———
E B OUT	3	58	———
M E PLL	4	57	———
FRP	5	56	———
LCD H/2	6	55	MON VCOM
M R OUT	7	54	MON PLL
M B OUT	8	53	MIC DT
M G OUT	9	52	MIC CK
HID	10	51	TDI
ENVELOPE	11	50	TDO
RF GND	12	49	TMS
———	13	48	TCK
SPA	14	47	BST TEST
ATFI	15	46	TEST0
———	16	45	PWR RESET
D GND	17	44	UATR0
EV H/2	18	43	UART1
IRIS OPEN	19	42	AFST
CAM F VDD	20	41	F VPP
CAM F VPP	21	40	CN Ⓗ
———	22	39	EVR SCK
FNO	23	38	EVR SBI
V REF Ⓗ	24	37	EVR SBO
CAM A GND	25	36	CAM VD
V OUT	26	35	REG D3V
CAM 5V	27	34	CAM E2 CLK
———	28	33	CAM TEST
V REF Ⓛ	29	32	E2 DATA
———	30	31	CAM RESET

EVR

MAIN C.B.A.

FP601

SE GND	21
SE GND	20
SE GND	19
NOREG GND	18
NOREG GND	17
NOREG	16
NOREG	15
M BL 5V	14
———	13
BL BRIGHT Ⓗ	12
M CHR R	11
M CHR G	10
M CHR B	9
PLL DAC	8
V COM DAC	7
M B OUT	6
M G OUT	5
M R OUT	4
MON V COM	3
GND	2
GND	1

FP602

LCD SCK	1
LCD SD	2
LCD CS	3
LCD OPEN	4
LCD RVS	5
HALL VCC	6
M 15V	7
M 3V	8
M 3V	9
M CR	10
M CB	11
M Y	12
M M PLL	13
M VD	14
M HD	15
M FRP	16
M FRP	17

FP903

1	SE GND	
2	SE GND	
3	NOREG GND	
4	NOREG GND	
5	NOREG	
6	NOREG	
7	M BL 5V	
8	———	
9	BL BRIGHT Ⓗ	
10	M CHR R	
11	M CHR G	
12	M CHR B	
13	PLL DAC	
14	V COM DAC	
15	M B OUT	
16	M G OUT	
17	M R OUT	
18	MON V COM	
19	GND	
20	GND	
21	GND	

FP904

17	LCD SCK	
16	LCD SCK	
15	LCD SD	
14	LCD CS	
13	LCD OPEN	
12	LCD RVS	
11	HALL VCC	
10	M 15V	
9	M 3V	
8	M 3V	
7	M CR	
6	M CB	
5	M Y	
4	M M PLL	
3	M VD	
2	M HD	
1	M FRP	

LCD C.B.A.

FP901

———	1
CKH1	2
CKH2	3
PCG	4
X PCG	5
H VDD	6
STH	7
X STH	8
H VSS	9
CSH	10
G	11
R	12
B	13
PCD	14
VSC	15
CSV	16
V VDD	17
ENB	18
X ENB	19
V VSS	20
STV	21
X STV	22
CKVI	23
CKV2	24
COM	25
———	26

MONITOR
LCD
PANEL

FP905

RVS Ⓛ	1
RVS GND	2
RVS VCC	3
OPEN Ⓗ	4
OPEN GND	5
OPEN VCC	6

1	RVS Ⓛ	
2	RVS GND	
3	RVS VCC	
4	OPEN Ⓗ	
5	OPEN GND	
6	OPEN VCC	

HALL SENSOR
FLEX.CARD C.B.A.

Ⓐ
Ⓑ
Ⓒ

11 12 13 14 15 16 17 18 19 20 21

:VIDEO MAIN SIGNAL PATH

A-LINE

B-LINE

TO MONITOR LCD PANEL FP901

TO MAIN CONNECTION FP904

TO MAIN CONNECTION FP903

TO FRAME GND

Q905 2SB970X (SWITCHING M 15V)

Q904 XP1501 (POWER CTL)

IC903 TC7S04FU

IC904 TC7S14FU

IC902 NJM2904V

IC901 LV4131W (MONITOR LCD DRIVE)

IC992 DN8797MSC (REVERS/NORMAL)

IC991 DN8797MSC (OPEN/CLOSE)

HALL SENSOR FLEX.CARD (VEP06D10A)

Q901 2SD2216 (OPEN Ⓗ :ON)

Q902 2SK2159 (SWITCHING)

QR903 UN9214J (BL BRIGHT Ⓗ :ON)

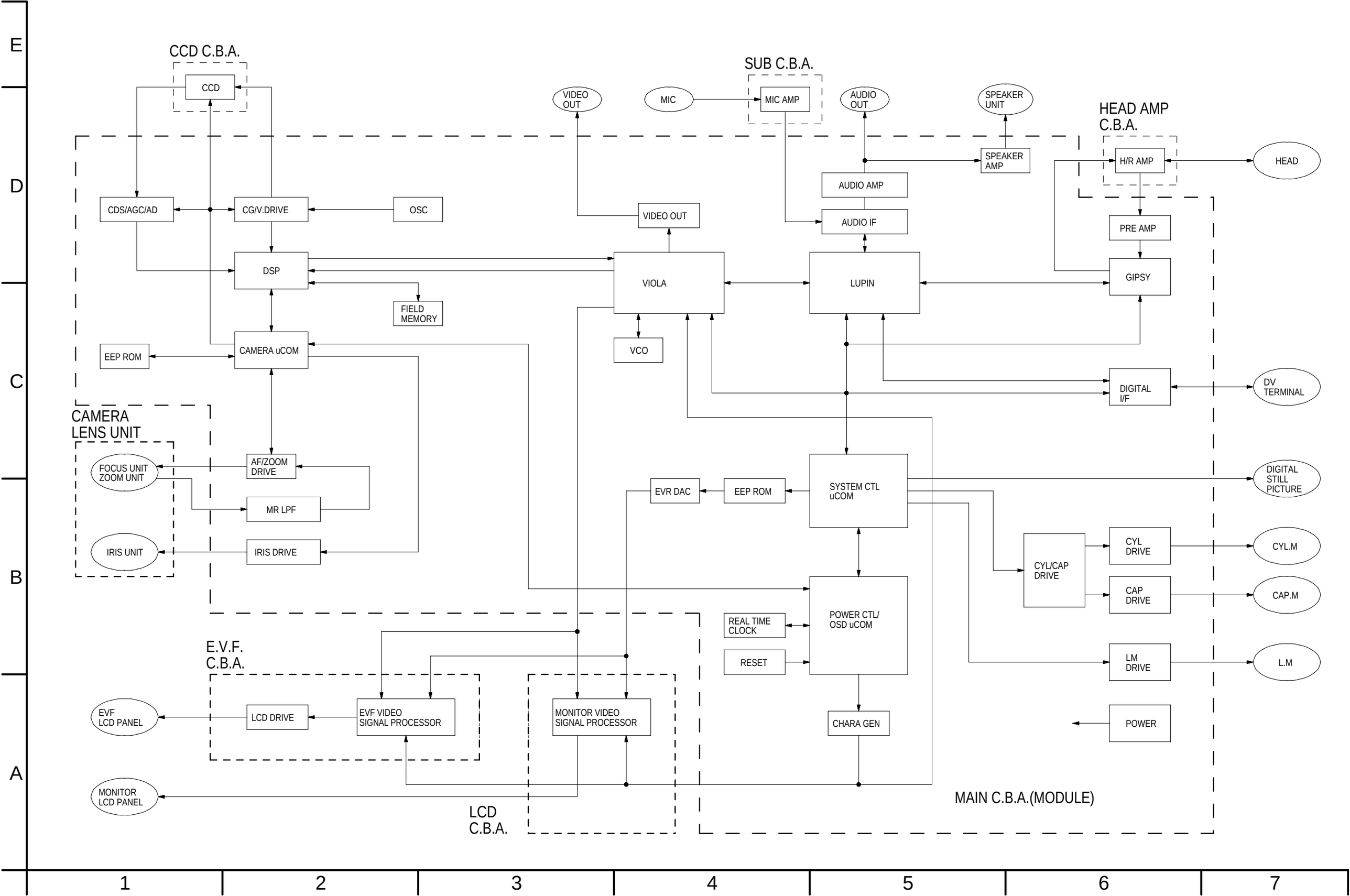
QR901 UN9210J (BL BRIGHT ON:ON)

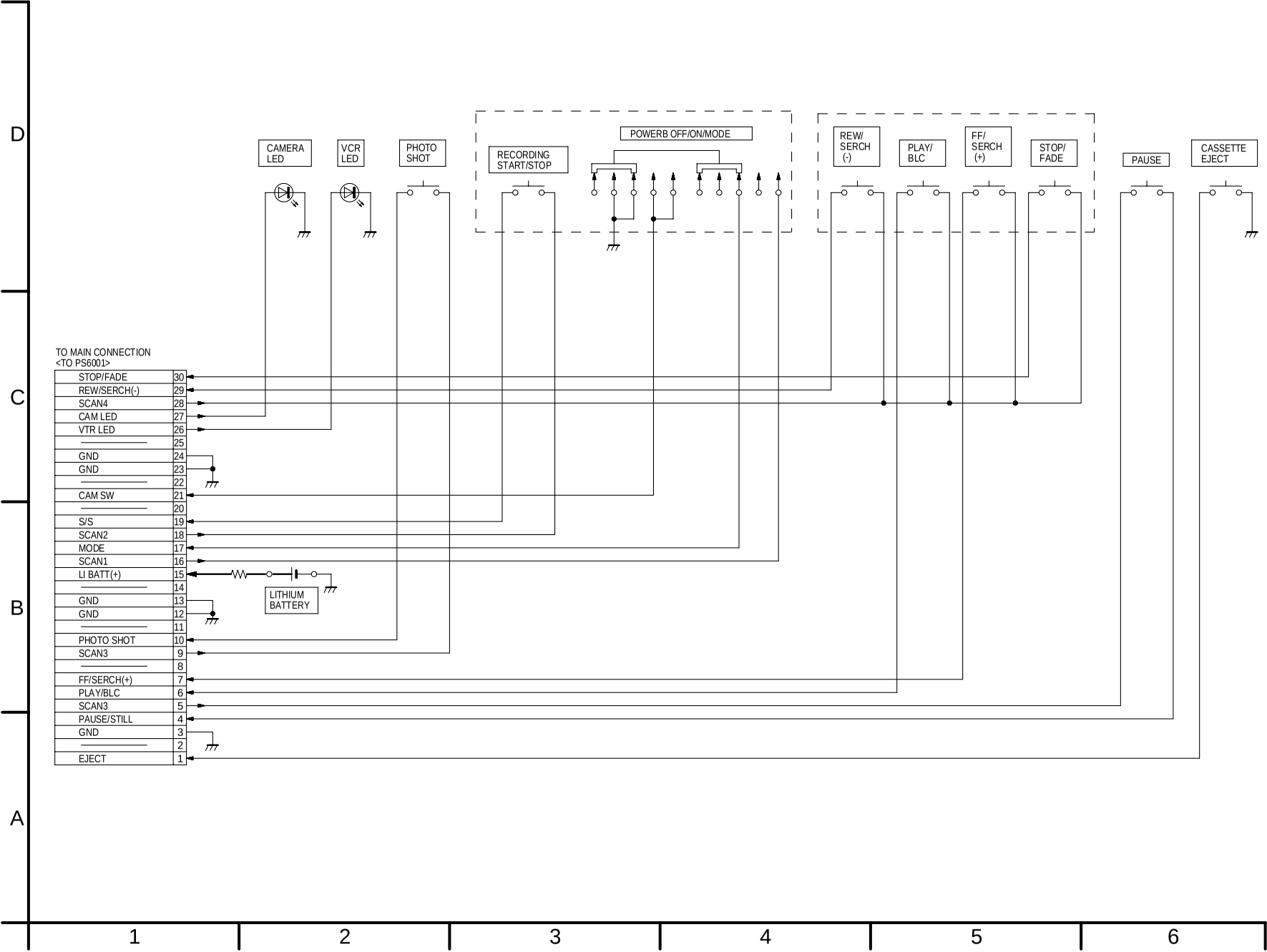
QR902 UN9210J (BL BRIGHT Ⓗ :ON)

IC905 SN74LV04APW

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.(MONITOR:OPEN)


CCD C.B.A.
CCD
SUB C.B.A.
VIDEO OUT
MIC
MIC AMP
AUDIO OUT
SPEAKER UNIT
HEAD AMP C.B.A.
H/R AMP
HEAD
SPEAKER AMP
AUDIO AMP
AUDIO IF
PRE AMP
GIPSY
CDS/AGC/AD
CG/V.DRIVE
OSC
VIDEO OUT
DSP
VIOLA
LUPIN
FIELD MEMORY
VCO
EEP ROM
CAMERA uCOM
DIGITAL I/F
DV TERMINAL
CAMERA LENS UNIT
FOCUS UNIT ZOOM UNIT
AF/ZOOM DRIVE
MR LPF
IRIS UNIT
IRIS DRIVE
EVR DAC
EEP ROM
SYSTEM CTL uCOM
DIGITAL STILL PICTURE
CYL/CAP DRIVE
CYL DRIVE
CYL.M
CAP DRIVE
CAP.M
REAL TIME CLOCK
RESET
POWER CTL/ OSD uCOM
LM DRIVE
L.M
CHARA GEN
POWER
E.V.F. C.B.A.
EVF LCD PANEL
LCD DRIVE
EVF VIDEO SIGNAL PROCESSOR
MONITOR VIDEO SIGNAL PROCESSOR
MONITOR LCD PANEL
LCD C.B.A.
MAIN C.B.A.(MODULE)


CAMERA LED
VCR LED
PHOTO SHOT
RECORDING START/STOP
POWERB OFF/ON/MODE
REW/ SERCH (-)
PLAY/ BLC
FF/ SERCH (+)
STOP/ FADE
PAUSE
CASSETTE EJECT
TO MAIN CONNECTION
<TO PS6001>
STOP/FADE 30
REW/SERCH(-) 29
SCAN4 28
CAM LED 27
VTR LED 26
25
GND 24
GND 23
22
CAM SW 21
20
S/S 19
SCAN2 18
MODE 17
SCAN1 16
LI BATT(+) 15
14
GND 13
GND 12
11
PHOTO SHOT 10
SCAN3 9
8
FF/SERCH(+) 7
PLAY/BLC 6
SCAN3 5
PAUSE/STILL 4
GND 3
2
EJECT 1
LITHIUM BATTERY
D
C
B
A
1
2
3
4
5
6

:MIC SIGNAL PATH IN REC MODE

MIC CASE UNIT(VYK9075)

ECM(R)
M4801
WM-58A112A
ECM(L)
M4802
WM-58A112A
TO FRAME GND
DEW SENSOR
JAA
JAB

1	A GND
2	ECM L
3	ECM R
4	A GND
5	DEW
6	SE GND

SUB C.B.A.(VEP23494A)

FP4801

A GND	1
ECM L	2
ECM R	3
A GND	4
DEW	5
SE GND	6

TO MAIN CONNECTION
<PS301>
PP401

C OUT5	1
IN HO	2
CAM Y2	3
CAM Y4	4
C OUT7	5
C OUT1	6
CAM Y0	7
Y OUT0	8
CAM Y3	9
Y OUT2	10
CAM C0	11
CAM C3	12
IN VI	13
IN HI	14
C OUT0	15
Y OUT1	16
Y OUT5	17
C OUT4	18
	19
	20
	21
	22
	23
	24
	25
DEW	26
D GND	27
D GND	28
SE GND	29
A GND	30
A GND	31
A GND	32
A AD IN R	33
A AD IN L	34
	35
	36
SCAN1	37
SCAN3	38
	39
	40
	41
	42
	43
KEY IN2	44
MENU	45
	46
REG A5V	47
REG A5V	48
WIND SW Ⓗ	49
D GND	50
D GND	51
D GND	52
D GND	53
D GND	54
	55
	56
	57
	58
	59
	60
	61
	62
CAM C6	63
CAM C2	64
CAM Y7	65
CAM Y1	66
C OUT2	67
C OUT3	68
Y OUT7	69
C OUT6	70
IN VO	71
CAM Y5	72
CAM C5	73
Y OUT3	74
Y OUT4	75
Y OUT6	76
CAM C7	77
CAM C4	78
CAM C1	79
CAM Y6	80

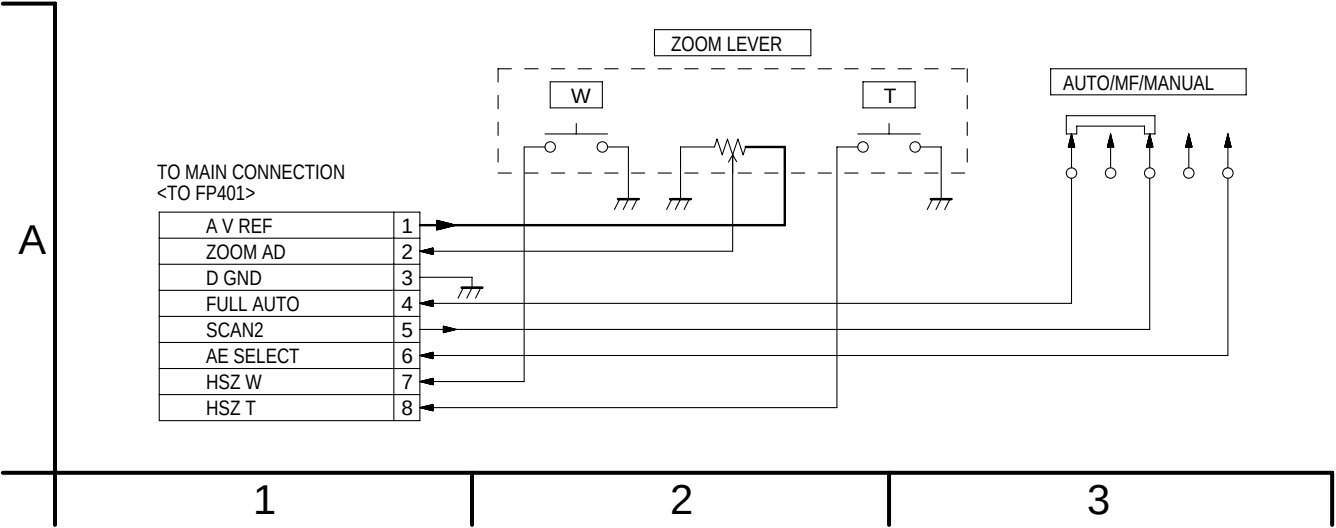
R4801 3900
R4803 3900
C4803 0.047
R4809 10K
C4802 0.047
R4805 33K
C4801 0.027
R4807 22K
R4806 100K
R4817 39K
R4808 120K
R4844 15K
R4845 15K
C4819 1800P
R4846 15K
R4810 10K
C4805 0.15
R4823 22K
Q4810 2SD2216 (AMP)
C4812 0.01
R4860 100K
C4814 0.1
R4831 4700
R4833 15K
R4836 100K
R4850 12K
Q4814 2SD2216 (SWITCHING REG A5V)
R4843 4700
C4818 6.3V10
Q4815 2SD2216 (AMP)
R4851 3300
C4815 0.015
R4835 33K
R4837 3300
Q4812 2SD2216 (AMP)
R4834 2200
QR4801 UN9212 (WIND SW Ⓗ:ON)

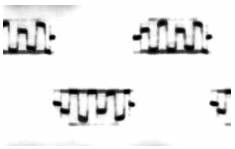
IC4801 NJM2112V
VCC
GND
IC4802 NJM2115VA
R4812 100K
R4818 39K
R4814 120K
C4820 1800P
R4849 15K
R4847 15K
R4848 15K
R4863 100K
C4806 0.027
R4813 22K
C4807 0.047
R4811 33K
C4811 6.3V10
R4824 33K
C4809 0.15
R4815 10K
C4810 0.047
R4816 10K
C4813 0.01
Q4811 2SD2216 (AMP)
C4816 0.1
R4832 4700
R4838 15K
C4817 0.015
R4840 33K
R4842 3300
Q4813 2SD2216 (AMP)
R4841 100K
R4852 12K
Q4816 2SD2216 (AMP)
R4853 3300
R4839 2200
QR4802 UN9212 (WIND SW Ⓗ:ON)

MENU
S6301 VSP1102
MULTI P-IN-P
S6302 VSP1102
D6301 MA132WA
W.B
S6303 VSP1102
SCAN3
SCAN1
KEYIN2
A AD IN R
WIND SW Ⓗ
A AD IN L

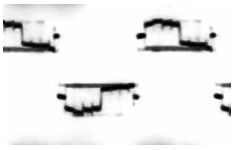
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

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

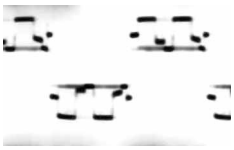

ZOOM LEVER
W
T
AUTO/MF/MANUAL
TO MAIN CONNECTION
<TO FP401>
A V REF 1
ZOOM AD 2
D GND 3
FULL AUTO 4
SCAN2 5
AE SELECT 6
HSZ W 7
HSZ T 8
A
1
2
3



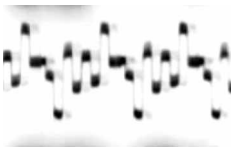
IC901-40 STOP
10.8 Vp-p (20µsec./div.)
COLOUR BAR



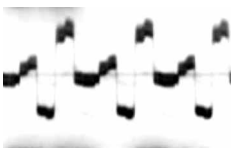
IC901-43 STOP
10.8 Vp-p (20µsec./div.)
COLOUR BAR



IC901-45 STOP
10.8 Vp-p (20µsec./div.)
COLOUR BAR



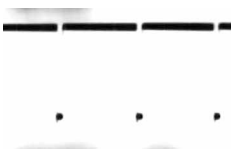
IC901-53 STOP
3.0 Vp-p (20µsec./div.)
COLOUR BAR



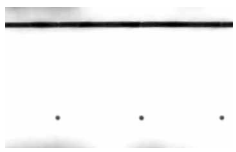
IC901-54 STOP
2.8 Vp-p (20µsec./div.)
COLOUR BAR



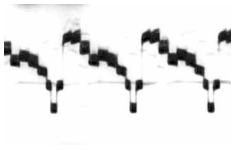
IC901-59 STOP
5.0 Vp-p (20µsec./div.)
COLOUR BAR



IC901-61 STOP
7.0 Vp-p (20µsec./div.)
COLOUR BAR



IC901-62 STOP
3.0 Vp-p (5msec./div.)
COLOUR BAR



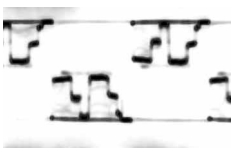
IC602-4 STOP
1.4 Vp-p (20µsec./div.)
COLOUR BAR



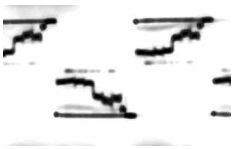
IC602-5 STOP
6.0 Vp-p (20µsec./div.)
COLOUR BAR



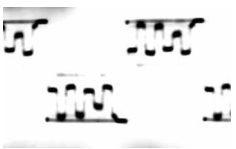
IC602-6 STOP
6.8 Vp-p (20µsec./div.)
COLOUR BAR



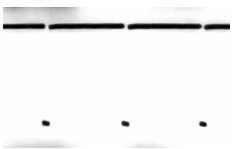
IC602-20 STOP
9.6 Vp-p (20µsec./div.)
COLOUR BAR



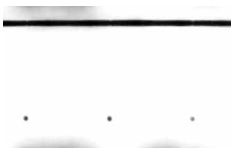
IC602-22 STOP
9.6 Vp-p 20µsec./div.)
COLOUR BAR



IC602-24 STOP
9.6 Vp-p (20µsec./div.)
COLOUR BAR



IC801-43 STOP
2.8 Vp-p (20µsec./div.)
COLOUR BAR



IC801-45 STOP
2.8 Vp-p (5msec./div.)
COLOUR BAR

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

Integrated Circuit	
IC602	D-4
IC801	B-4
IC802	E-1

Transistor	
Q601	E-2
Q602	E-5
Q608	E-4
Q610	E-1

Transistor & Resistor	
QR601	E-1
QR604	E-1

Diode	
D801	B-4
D803	B-5

Connector	
FP801	B-3
PP801	A-2

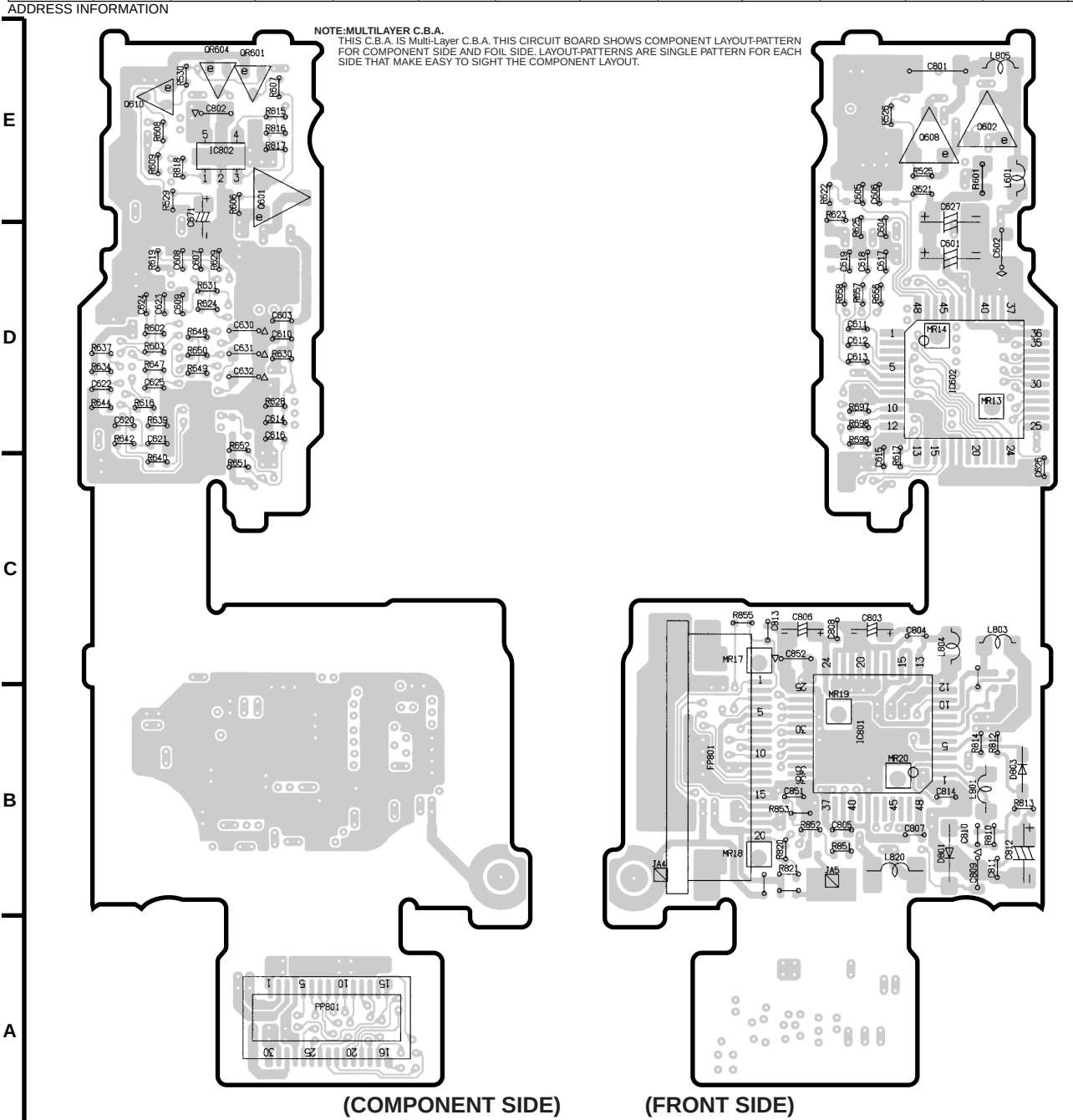
Coil	
L601	E-5
L801	B-5
L803	C-5
L804	C-4
L805	E-5
L820	B-4

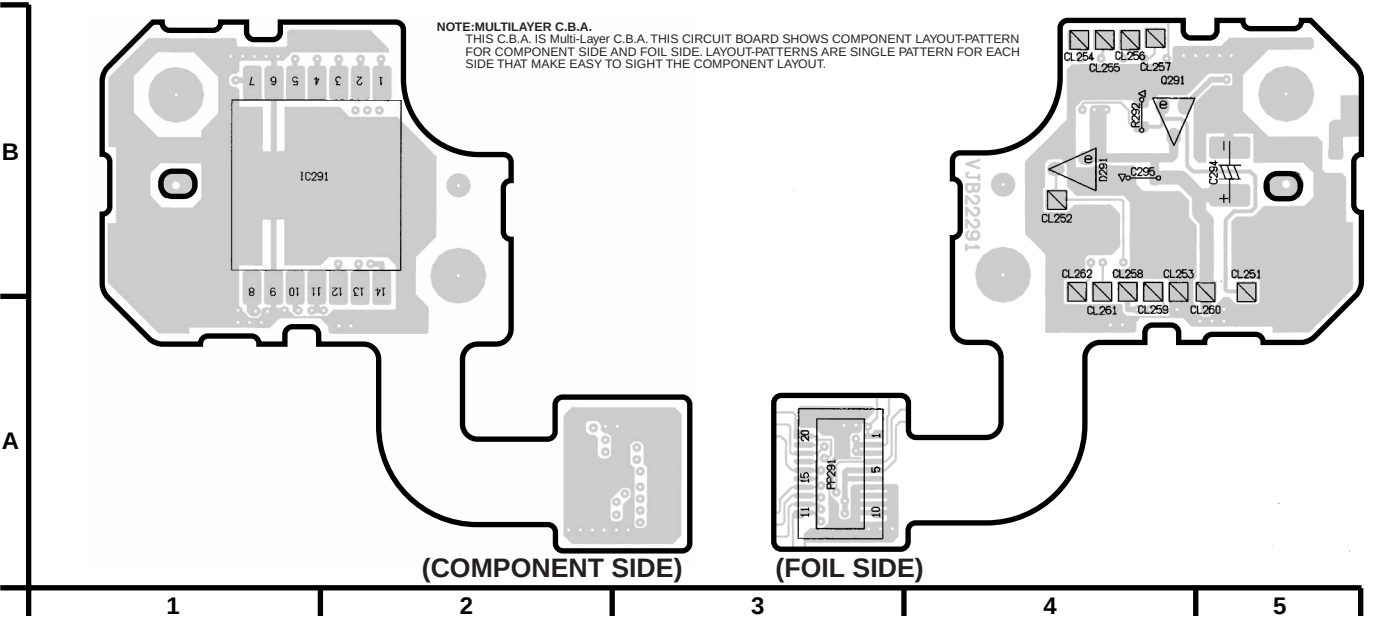
Capacitor	
C601	D-4
C602	D-5
C603	D-2
C604	E-4
C605	E-4
C606	E-4
C607	D-1
C608	D-1
C609	D-2
C610	D-2
C611	D-4
C612	D-4
C613	D-4
C614	D-2
C615	D-4
C616	D-2
C617	D-4
C618	D-4
C619	D-4
C620	D-1
C621	D-1
C622	D-1
C623	D-1
C624	D-1
C625	D-1
C626	C-5
C627	E-4
C630	D-1
C631	D-1
C632	D-1
C671	E-1
C801	E-4
C802	E-1
C803	C-4
C804	C-4
C805	B-4
C806	C-4
C807	B-4
C808	C-4
C809	B-5
C810	B-5
C811	B-5
C812	B-5
C813	C-4
C814	B-4
C851	B-4
C852	C-4

Resistor	
R525	E-4
R526	E-4
R529	E-1
R530	E-1
R601	E-5
R602	D-1
R603	D-1
R606	E-1
R607	E-1
R608	E-1
R609	E-1
R616	D-1
R617	D-4
R619	D-1
R621	E-4
R622	E-4
R623	E-4
R624	D-1
R625	E-4
R628	D-2
R629	D-1
R630	D-2
R631	D-1
R634	D-1
R637	D-1
R639	D-1
R640	C-1
R642	D-1
R644	D-1
R647	D-1
R648	D-1
R649	D-1
R650	D-1
R651	C-1
R652	D-1
R656	D-4
R657	D-4
R658	D-4
R697	D-4
R698	D-4
R699	D-4
R810	B-5
R812	B-5
R813	B-5
R814	B-5
R815	E-2
R816	E-2
R817	E-2
R818	E-1
R820	B-4
R821	B-4
R851	B-4
R852	B-4
R853	B-4
R855	C-4

ADDRESS INFORMATION

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




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IC291
PP291
Q291
Q292
Q293
R292
C295
C294
CL251
CL252
CL253
CL254
CL255
CL256
CL257
CL258
CL259
CL260
CL261
CL262
VJB22291
(COMPONENT SIDE)
(FOIL SIDE)
A
B
1
2
3
4
5

DRIVE C.B.A.

Integrated Circuit

IC2201	B-5
IC2202	A-3
IC2203	C-2

Connector

FP2201	A-5
FP2202	C-5
FP2203	B-3
FP6304	C-5
PS2001	C-1
PS3801	A-6

Capacitor

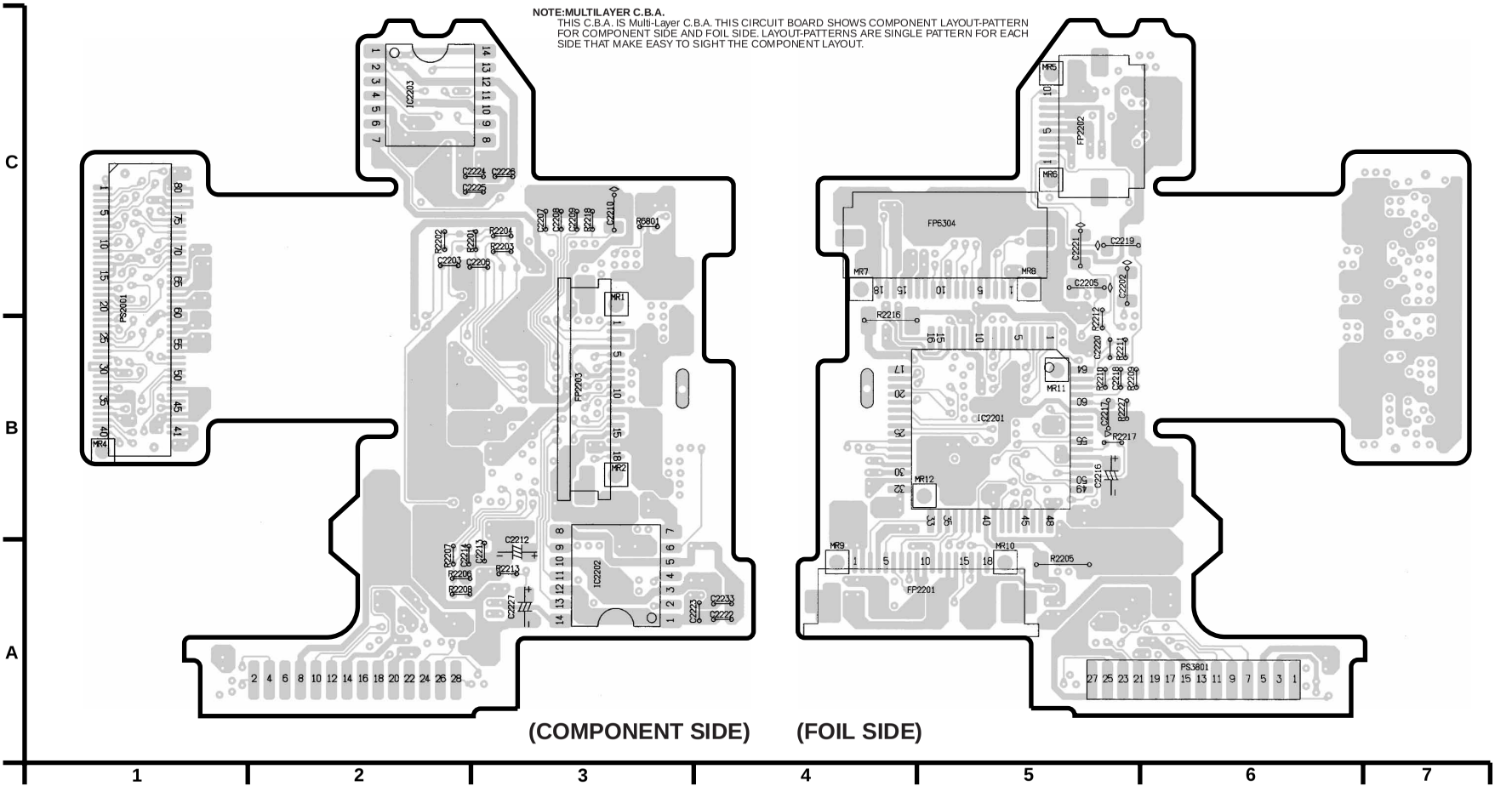
C2202	C-5
C2203	C-2
C2205	C-5
C2206	C-3
C2207	C-3
C2208	C-3
C2209	C-3
C2210	C-3
C2212	A-3
C2213	A-3
C2214	A-2
C2216	B-5
C2217	B-5
C2218	B-5
C2219	C-5
C2220	B-5
C2221	C-5
C2222	A-4
C2223	A-4
C2224	C-3
C2225	C-3
C2226	C-3
C2227	A-3
C2233	A-4

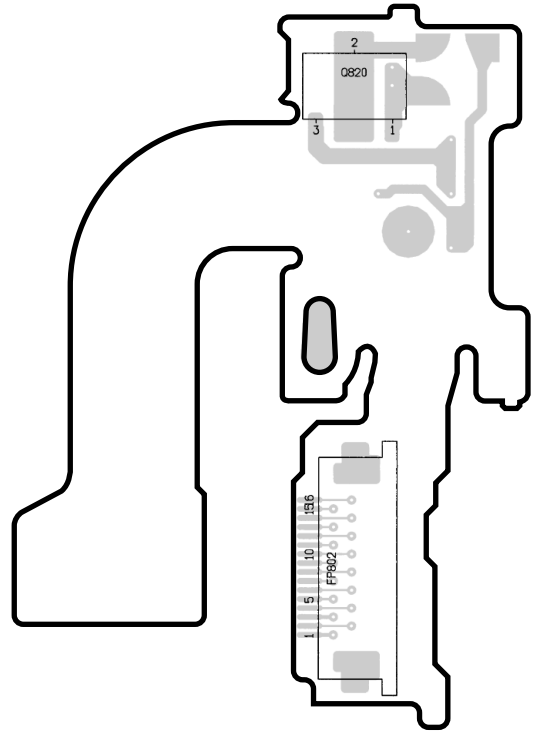
Resistor

R2201	C-3
R2202	C-2
R2203	C-3
R2204	C-3
R2205	A-5
R2206	A-2
R2207	A-2
R2208	A-2
R2209	B-5
R2210	B-5
R2211	B-5
R2212	B-5
R2213	A-3
R2216	C-4
R2217	B-5
R2218	C-3
R2227	B-5
R6801	C-3

ADDRESS INFORMATION

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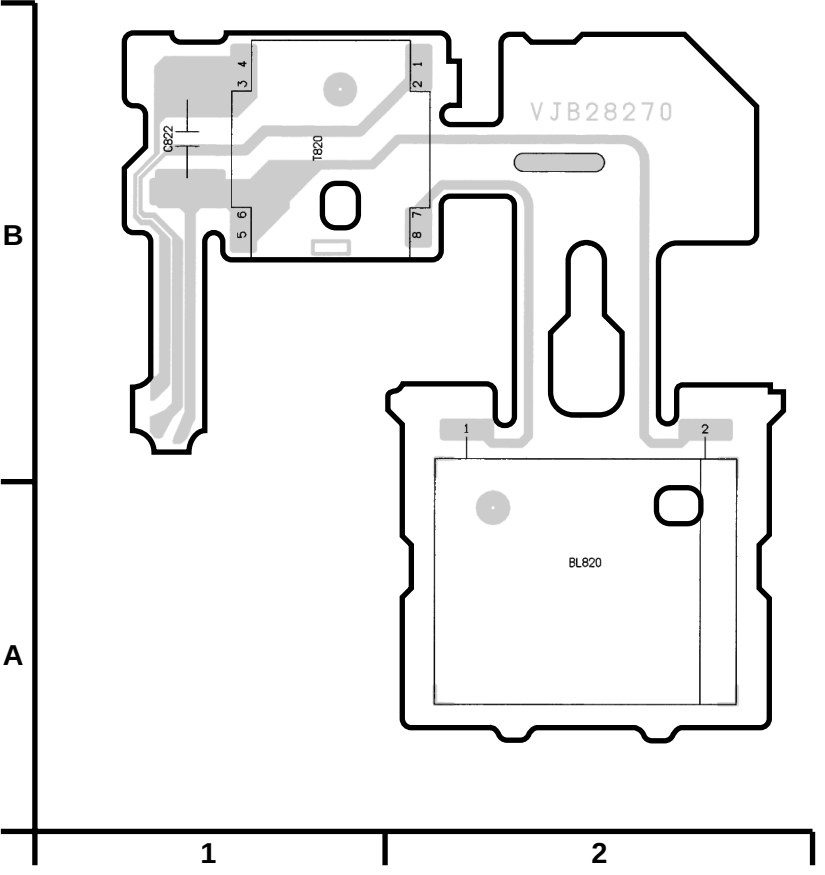
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B

A

1 2


B
A
1
2
VJB28270
C822
T820
3
4
2
1
5
6
8
7
1
2
BL820



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LCD C.B.A.

Integrated Circuit

IC901	C-4
IC902	B-3
IC903	B-3
IC904	A-3
IC905	D-5

Transistor

Q901	C-2
Q902	C-5
Q904	C-1
Q905	C-3

Transistor & Resistor

QR901	D-5
QR902	D-3
QR903	D-4

Connector

FP901	B-4
FP903	C-3
FP904	C-2
FP905	B-2

Test Point

CL901	C-4
CL902	A-3
CL903	C-4
CL904	A-5
CL905	C-3
CL906	C-4
CL907	C-4
CL908	B-3
CL909	C-3
CL910	B-4
CL911	B-4
CL912	C-3
CL913	B-3
CL914	B-2
CL915	B-5
CL916	B-5
CL917	B-5
CL918	B-5
CL919	D-5
CL920	D-5
CL921	D-2
CL922	C-5
CL923	D-4
CL924	D-3
CL925	D-4
CL926	D-4
CL927	D-3
CL928	D-4
TL901	D-1
TL902	C-5
TL903	C-5

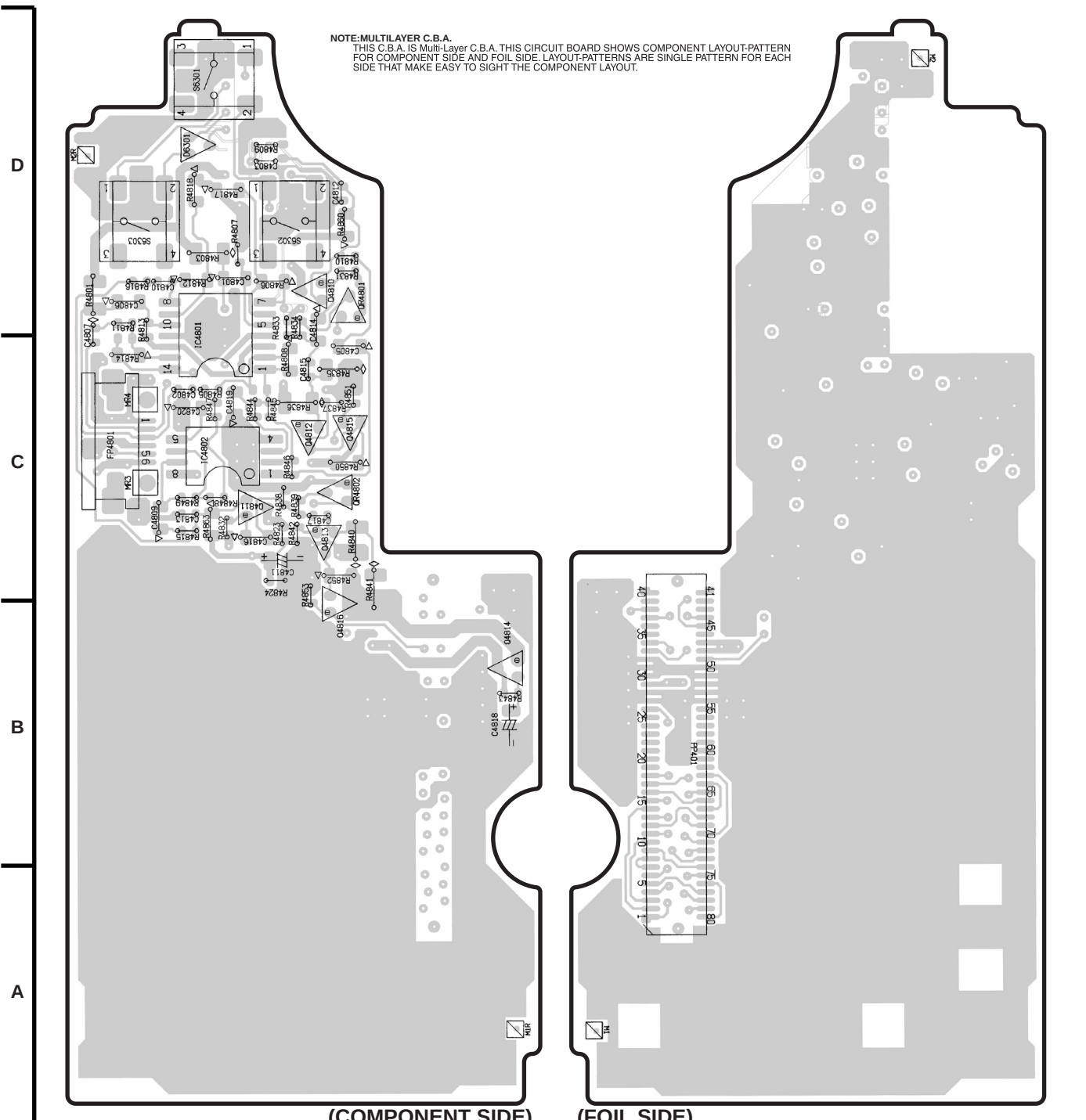
ADDRESS INFORMATION

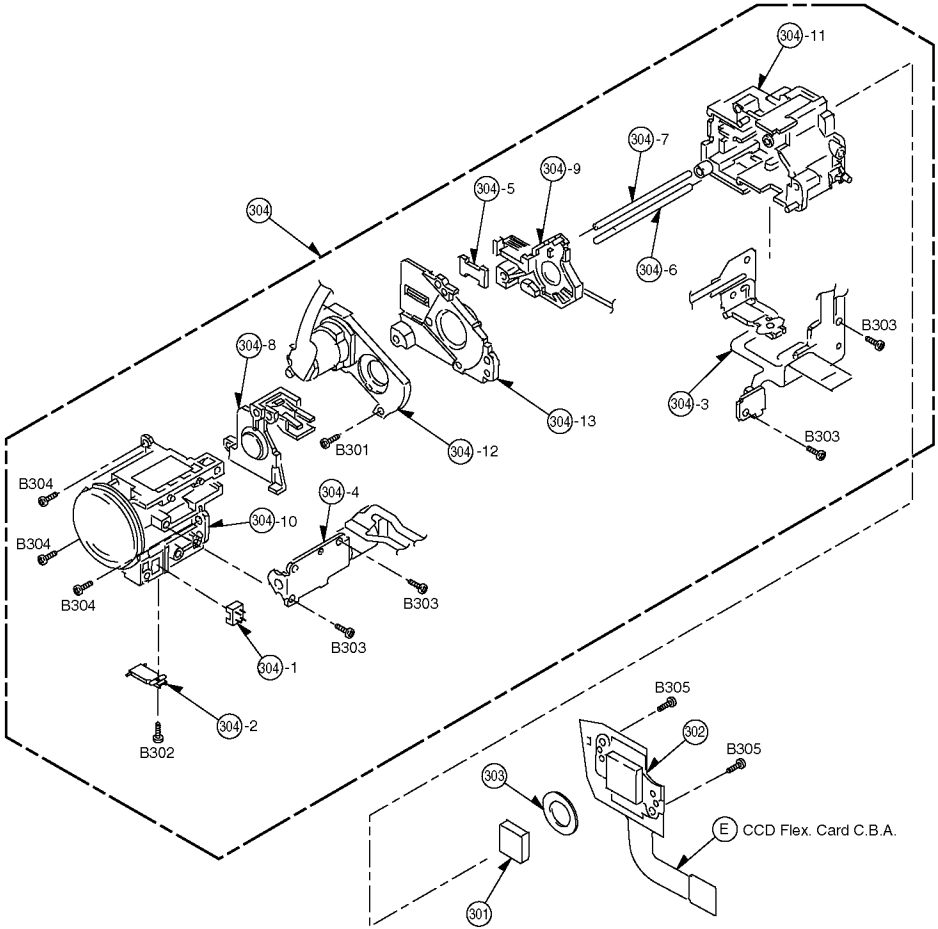
SUB C.B.A.

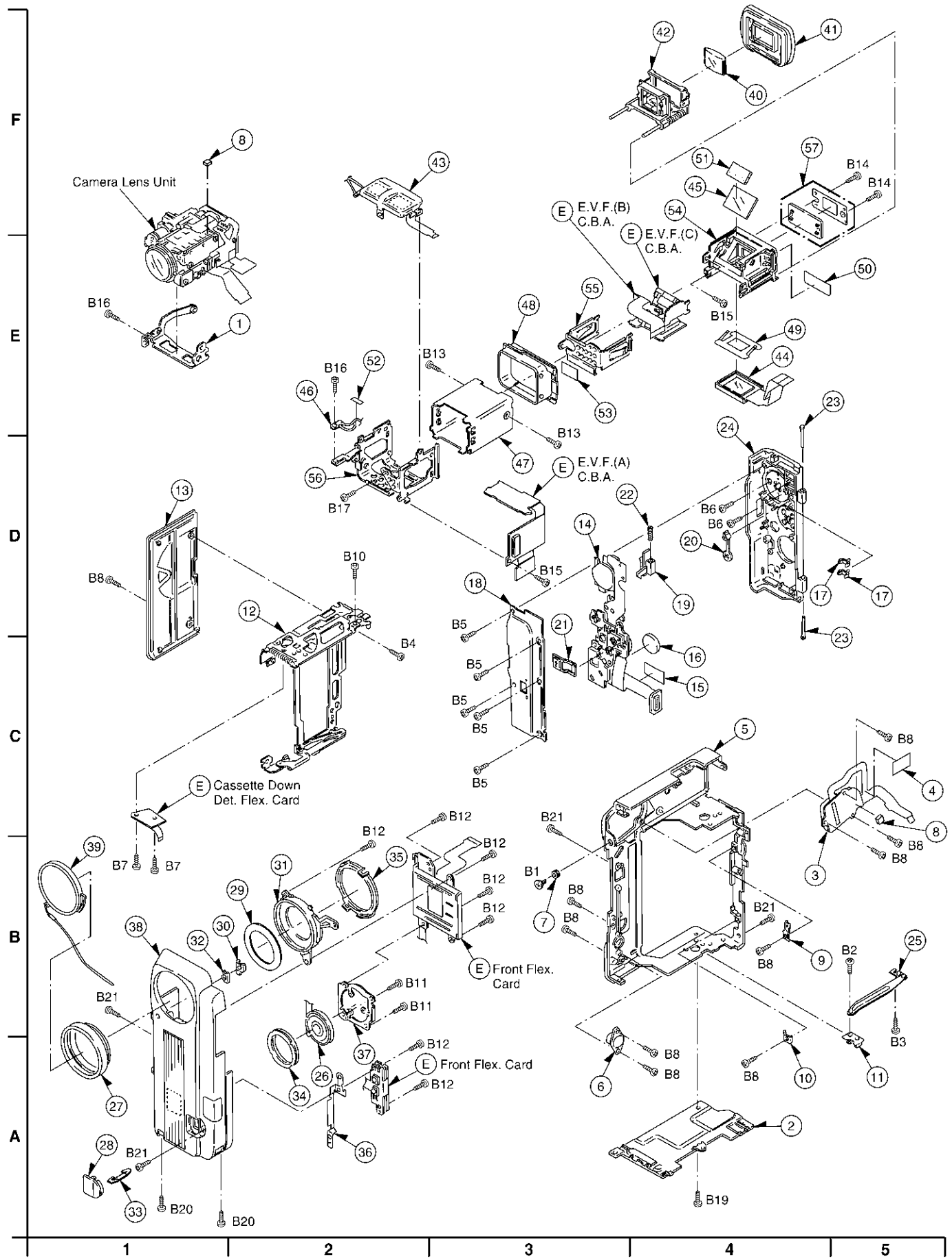
Integrated Circuit		FP4801	C-1	C4809	C-1	R4805	C-1	R4824	C-1	R4845	C-1
IC4801	C-2	PP401	B-3	C4810	D-1	R4806	D-1	R4831	D-2	R4846	C-1
IC4802	C-2	**Switch**		C4811	C-1	R4807	D-1	R4832	C-1	R4847	C-1
Transistor		S6301	D-1	C4812	D-2	R4808	C-1	R4833	D-1	R4848	C-1
Q4810	D-2	S6302	D-1	C4813	C-1	R4809	D-1	R4834	D-1	R4849	C-1
Q4811	C-1	S6303	D-1	C4814	D-2	R4810	D-2	R4835	C-2	R4850	C-2
Q4812	C-2	**Diode**		C4815	C-2	R4811	D-1	R4836	C-2	R4851	C-2
Q4813	C-2	D6301	D-1	C4816	C-1	R4812	D-1	R4837	C-2	R4852	C-2
Q4814	B-2	**Capacitor**		C4817	C-2	R4813	D-1	R4838	C-1	R4853	C-2
Q4815	C-2	C4801	D-1	C4818	B-2	R4814	C-1	R4839	C-1	R4860	D-2
Q4816	B-2	C4802	C-1	C4819	C-1	R4815	C-1	R4840	C-2	R4863	C-1
Transistor & Resistor		C4803	D-1	C4820	C-1	R4816	D-1	R4841	C-2		
QR4801	D-2	C4805	C-2	**Resistor**		R4817	D-1	R4842	C-1		
QR4802	C-2	C4806	D-1	R4801	D-1	R4818	D-1	R4843	B-2		
Connector		C4807	D-1	R4803	D-1	R4823	C-1	R4844	C-1		

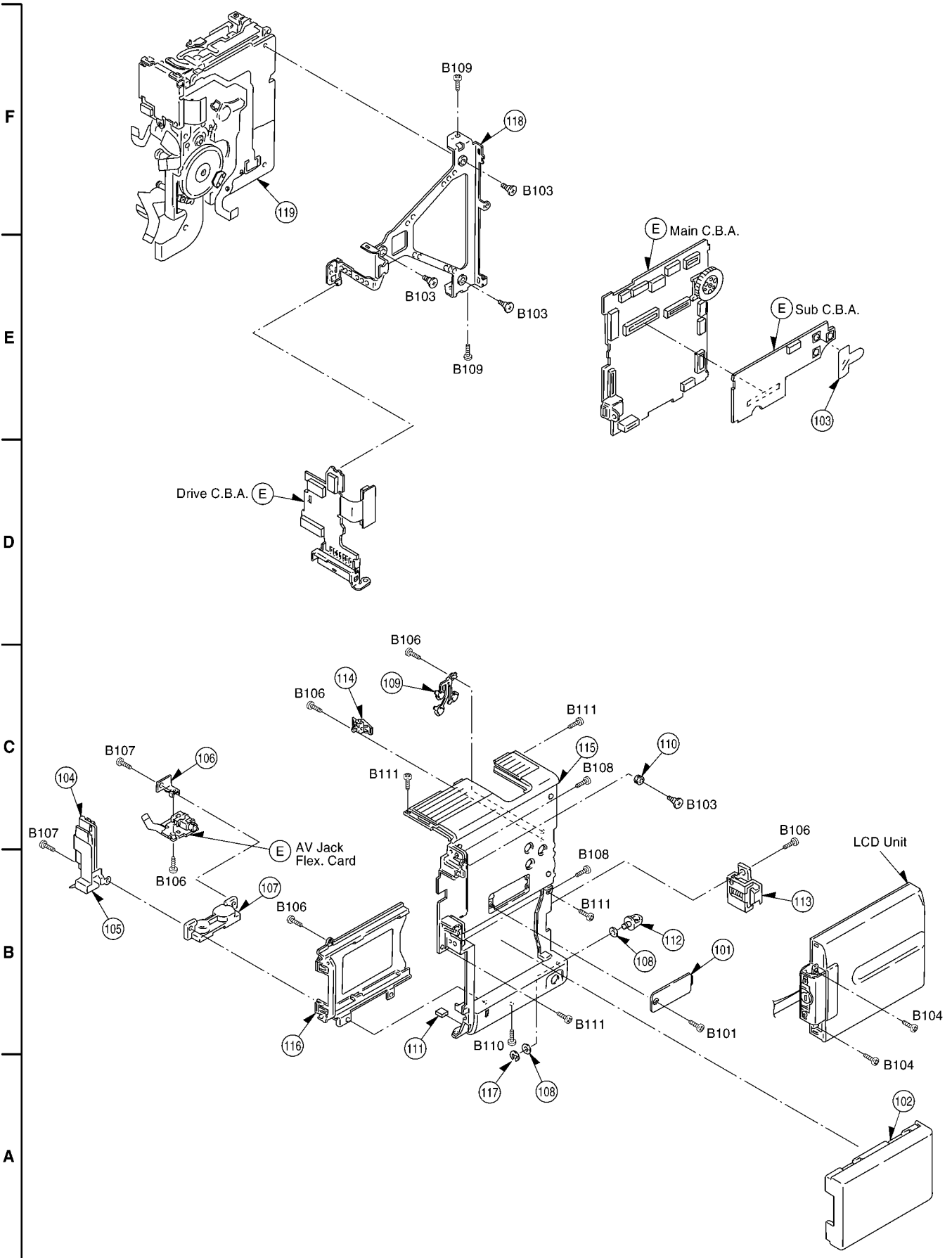
ADDRESS INFORMATION

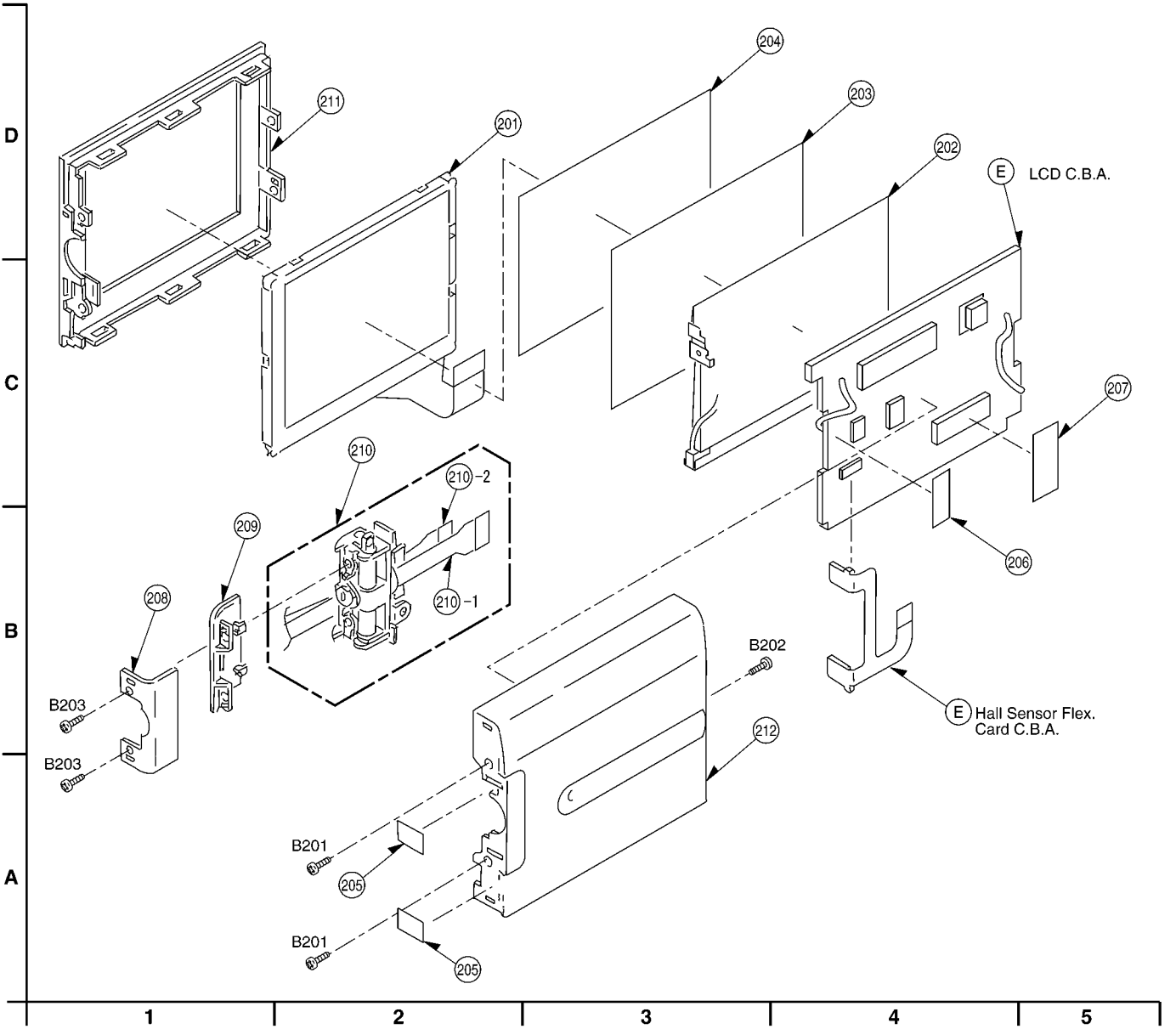
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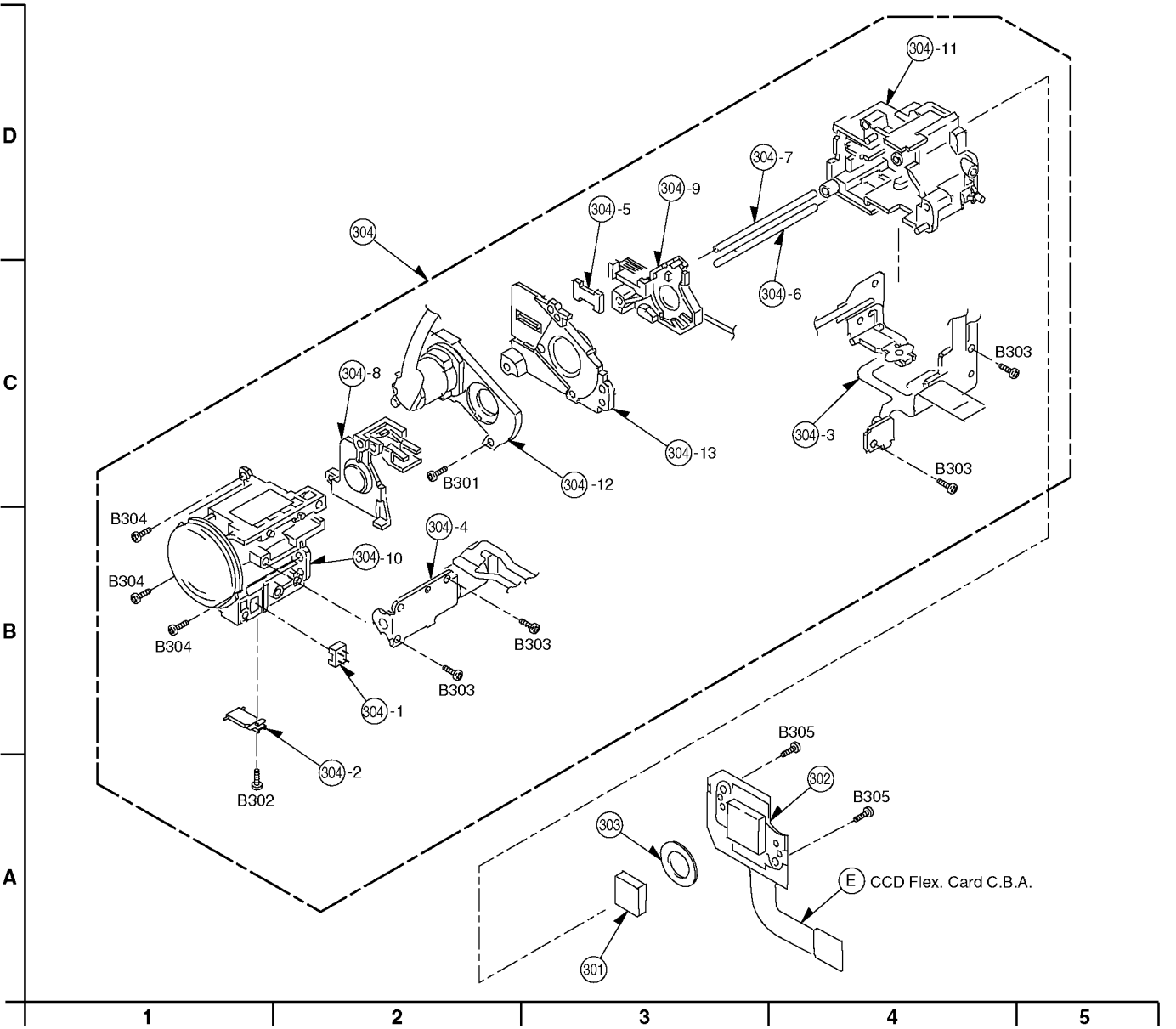



304
304-11
304-7
304-9
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304-6
304-8
304-13
304-12
304-3
B303
B301
B303
B304
304-10
304-4
B304
B304
B303
B303
304-1
304-2
B302
B305
302
B305
303
E CCD Flex. Card C.B.A.
301


Camera Lens Unit
E E.V.F.(B) C.B.A.
E E.V.F.(C) C.B.A.
E E.V.F.(A) C.B.A.
E Cassette Down Det. Flex. Card
E Front Flex. Card
E Front Flex. Card
B1
B2
B3
B4
B5
B6
B7
B8
B10
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B109
118
B103
119
B103
B103
B109
E Main C.B.A.
E Sub C.B.A.
103
Drive C.B.A. E
B106
114
B106
109
B111
115
B108
110
B103
B107
106
104
B111
B107
E AV Jack Flex. Card
B106
107
B106
105
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B110
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B108
B111
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B101
B111
B106
113
LCD Unit
B104
B104
102


D
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211
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202
E LCD C.B.A.
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210-2
210-1
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208
B203
B203
B202
E Hall Sensor Flex. Card C.B.A.
212
B201
205
B201
205


304
304-11
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301
E CCD Flex. Card C.B.A.