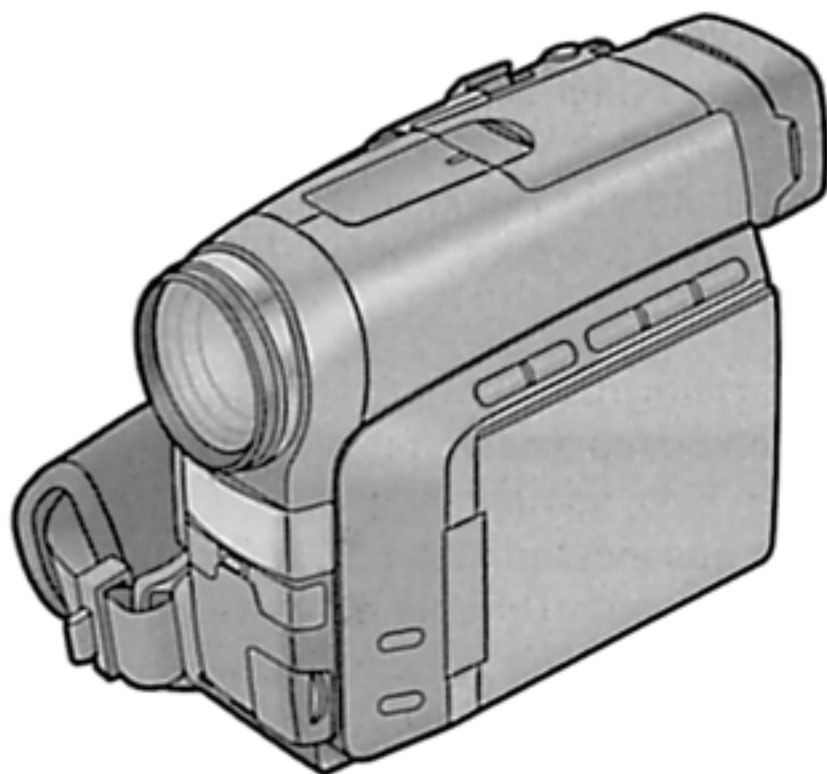


Service Manual



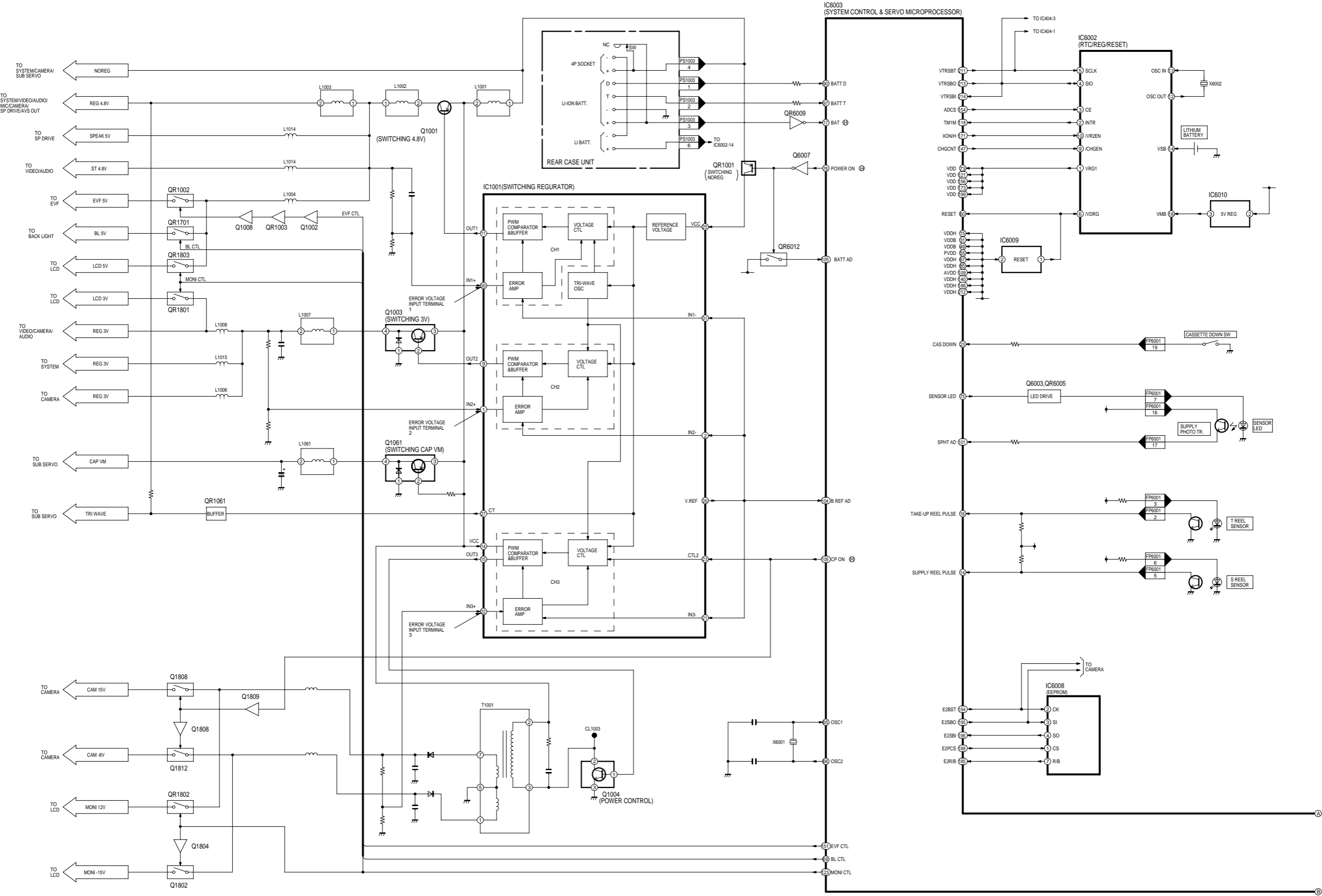
Panasonic simple

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

SPECIFICATIONS

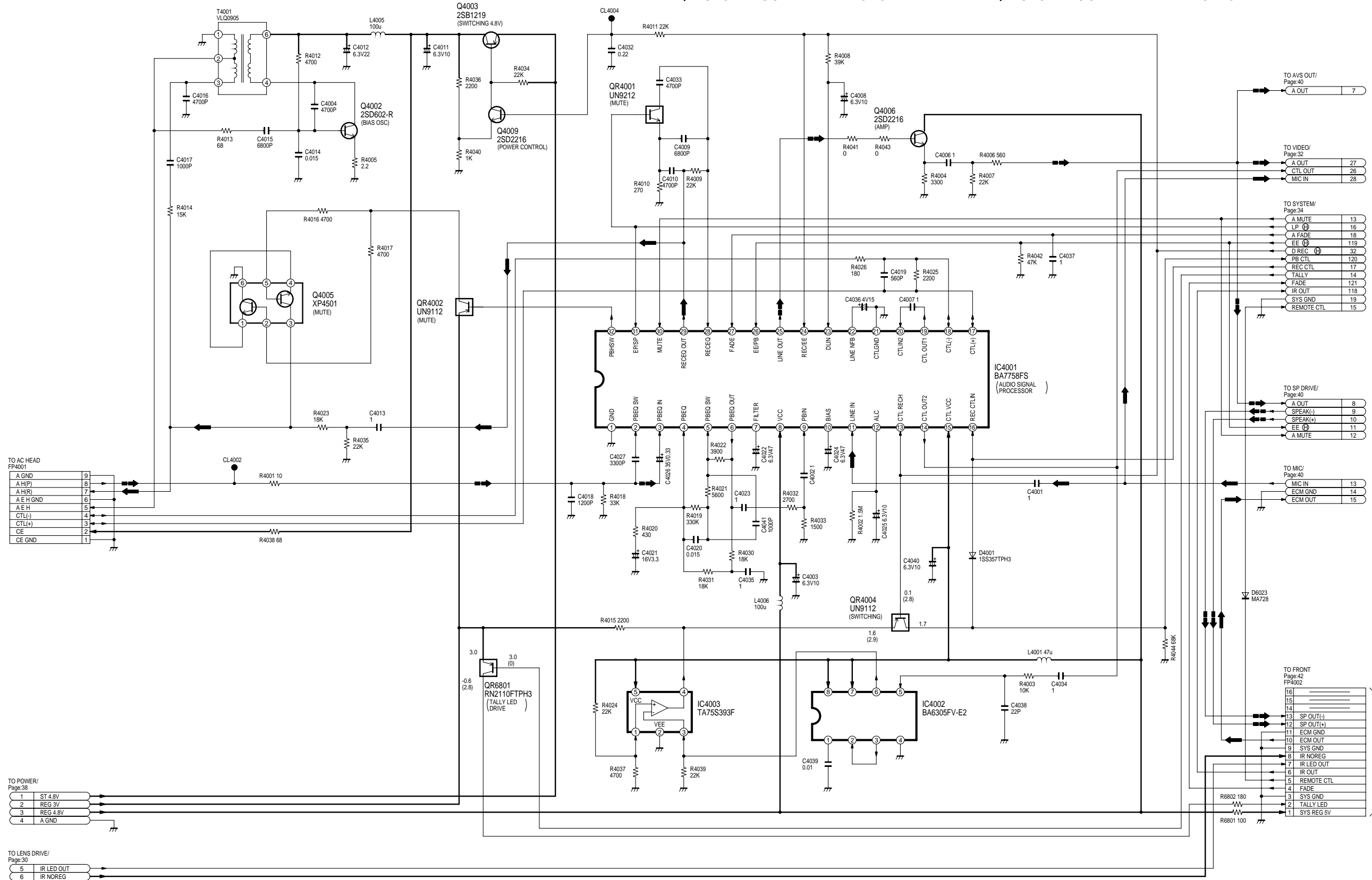
ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption (Battery Operation) ; 4.7 W (When using Finder) ; 6.3 W (When using LCD Monitor)	FINDER	0.24-inch Electronic Finder
		MONITOR	2.5-inch Colour LCD Monitor
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL	VIDEO	HEADS: 4 Rotary heads, 1 flying erase head
			OUTPUT: PHONO CONNECTOR; 1.0 Vp-p 75 Ω terminated
TAPE FORMAT	VHS-C Cassette Tape (Tape width 12.7 mm)	AUDIO	HEADS: 1 Stationary head (Normal-Mono)
			OUTPUT: PHONO CONNECTOR; -6 dB (47kΩ loaded)/less than 1 kΩ
TAPE SPEED	SP mode : 23.3 mm/s LP mode : 11.7 mm/s (Except NV-VZ1EG/E) Record/Playback Time: SP mode ; 1 hour with NV-EC60 LP mode ; 2 hours with NV-EC60 (Except NV-VZ1EG/E) FF/REW Time: less than 2.5 min. with NV-EC45XG	OPERATING TEMPERATURE	0-40 °C
		OPERATING HUMIDITY	10-80 %
		WEIGHT	Approx. 850g (without Battery Pack)
		DIMENSIONS	88 (W) X 118 (H) X 231 (D) mm
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)	STANDARD ACCESSORIES	1 pc. AC Adaptor
	STANDARD ILLUMINATION: 1,400 lx		1 pc. Battery Pack
	LENS: 20 : 1 Power Zoom Lens F1.8 Focal Length; 2.9-66.7 mm Digital AI Auto Focus/Auto Iris Filter Diameter ; 43 mm		1 pc. Cassette Adaptor (Except NV-VZ1B)
	IMAGE SENSOR: 1/5-inch CCD Image Sensor		1 pc. Shoulder Strap
			1 pc. DC Output Cable
			1 pc. Battery for Cassette Adaptor (Except NV-VZ1B)
			1 pc. AC Cord
			1 pc. AV Cord
			1 pc. Remote Controller
			1 pc. Lithium Battery
			2 pc. Battery for Remote Controller

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



➔ :AUDIO MAIN SIGNAL PATH IN REC MODE

➔➔ :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



TO AC HEAD
FP4001

A GND	9
A H(P)	8
A H(R)	7
A E H GND	6
A E H	5
CTL(-)	4
CTL(+)	3
CE	2
CE GND	1

TO POWER/
Page:38

1	ST 4.8V
2	REG 3V
3	REG 4.8V
4	A GND

TO LENS DRIVE/
Page:30

5	IR LED OUT
6	IR NOREG

TO AVS OUT/
Page:40

A OUT	7
-------	---

TO VIDEO/
Page:32

A OUT	27
CTL OUT	26
MIC IN	28

TO SYSTEM/
Page:34

A MUTE	13
LP (L)	16
A FADE	18
EE (E)	119
D RECALL	32
PB CTL	120
REC CTL	17
TALLY	14
FADE	121
IR OUT	118
SYS GND	19
REMOTE CTL	15

TO SP DRIVE/
Page:40

A OUT	8
SPEAK(-)	9
SPEAK(+)	10
EE (E)	11
A MUTE	12

TO MIC/
Page:40

MIC IN	13
ECM GND	14
ECM OUT	15

TO FRONT
Page:42
FP4002

16	
15	
14	
13	SP OUT(-)
12	SP OUT(+)
11	ECM GND
10	ECM OUT
9	SYS GND
8	IR NOREG
7	IR LED OUT
6	IR OUT
5	FADE
4	REMOTE CTL
3	SYS GND
2	TALLY LED
1	SYS REG 5V

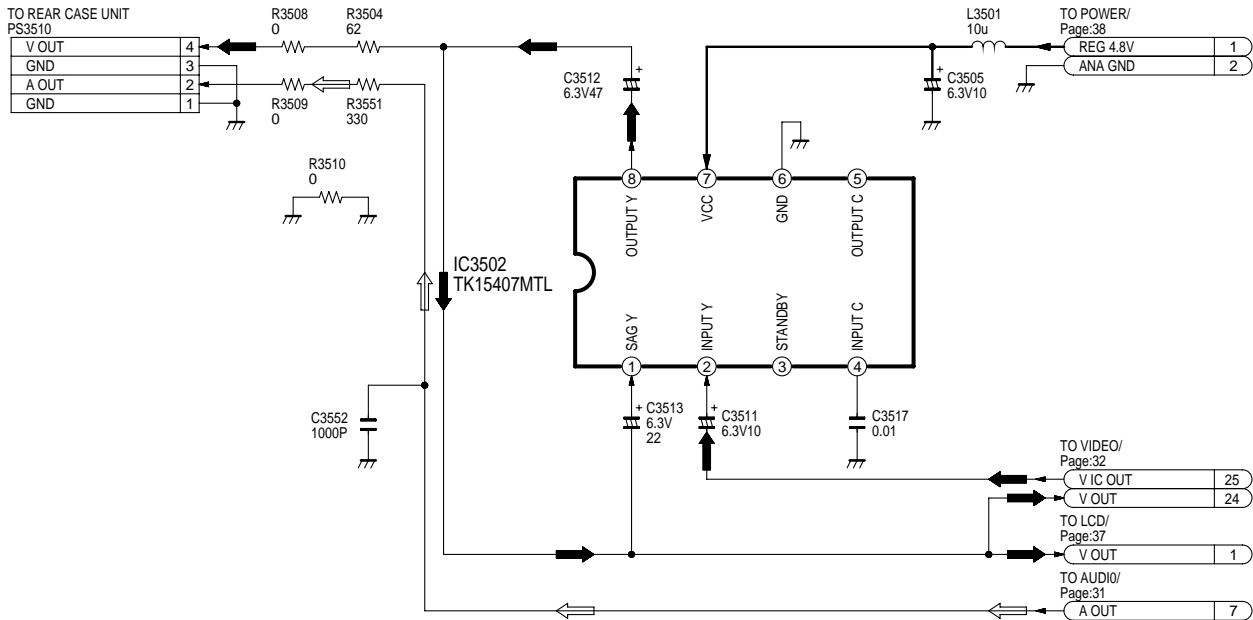
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

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

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

➔:VIDEO MAIN SIGNAL PATH

➞:AUDIO MAIN SIGNAL PATH



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

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

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

1

2

3

4

TO CAMERA2/
Page:28

- 1 SUB
- 2 CH2
- 3 CH1
- 4 V4
- 5 V3
- 6 V2
- 7 V1
- 8 AD Y IN
- 9 REG 3V
- 10 DS2
- 11 DS1
- 12 FCK
- 13 P BLK
- 14 E2 SBO
- 15 E2 SBT
- 16 PWM(B)
- 17 V REF Y

TO LCD/
Page:37

18 BGA VCO

TO POWER/
Page:38

19 B LEVEL

20 Y GAIN

TO CAMERA2/
Page:34

- 21 V REF (H)
- 22 V REF (L)
- 23 CG 3.3V
- 24 H1
- 25 H2
- 26 R PULSE

TO POWER/
Page:38

- CAM 15V 27
- CAM -8V 28

TO CCD/
PP301
Page:42

- 1 OUT
- 2 15V
- 3 SUB
- 4 H1
- 5 H2
- 6 R
- 7 PW
- 8 øV4
- 9 øV3
- 10 øV2
- 11 øV1
- 12 PT

TO LENS DRIVE/
Page:30

- HALL BIAS 29
- HALL GAIN 30

TO CAMERA2/
Page:28

- TVOL CLV 31

TO VIDEO/
Page:32

- VVOL CRE 17

TO SYSTEM/
Page:34

- CSN 78

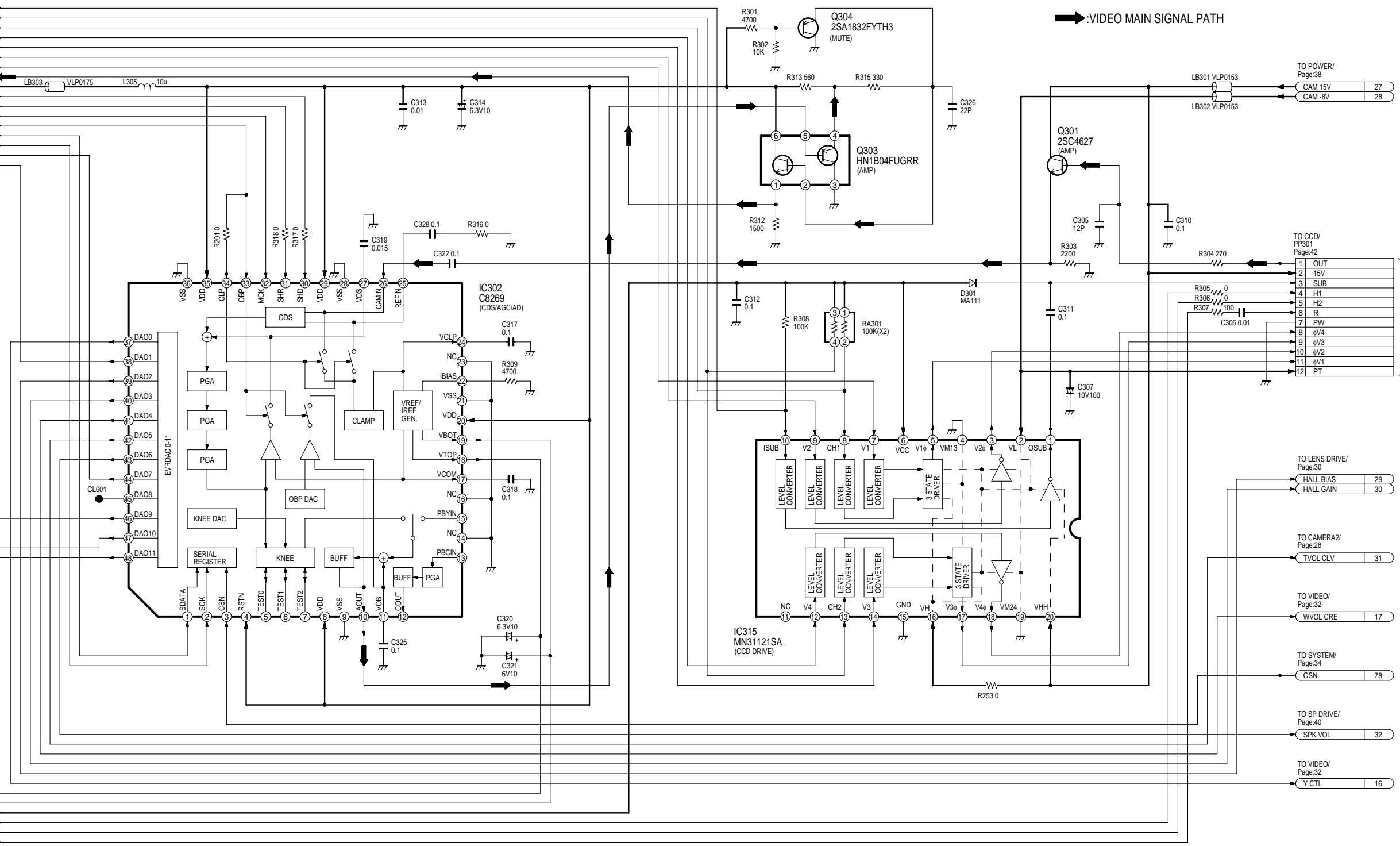
TO SP DRIVE/
Page:40

- SPK VOL 32

TO VIDEO/
Page:32

- Y CTL 16

➔:VIDEO MAIN SIGNAL PATH



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

TO LENS DRIVE/
Page:30

1	REG 4.8V
2	REG 3V
3	V REF (L)
4	PWM(A)
5	V REF (H)
6	CAM GND

TO POWER/
Page:38

7	REG 3V
8	REG 4.8V
9	NOREG
10	CAM GND

TO SYSTEM/
Page:34

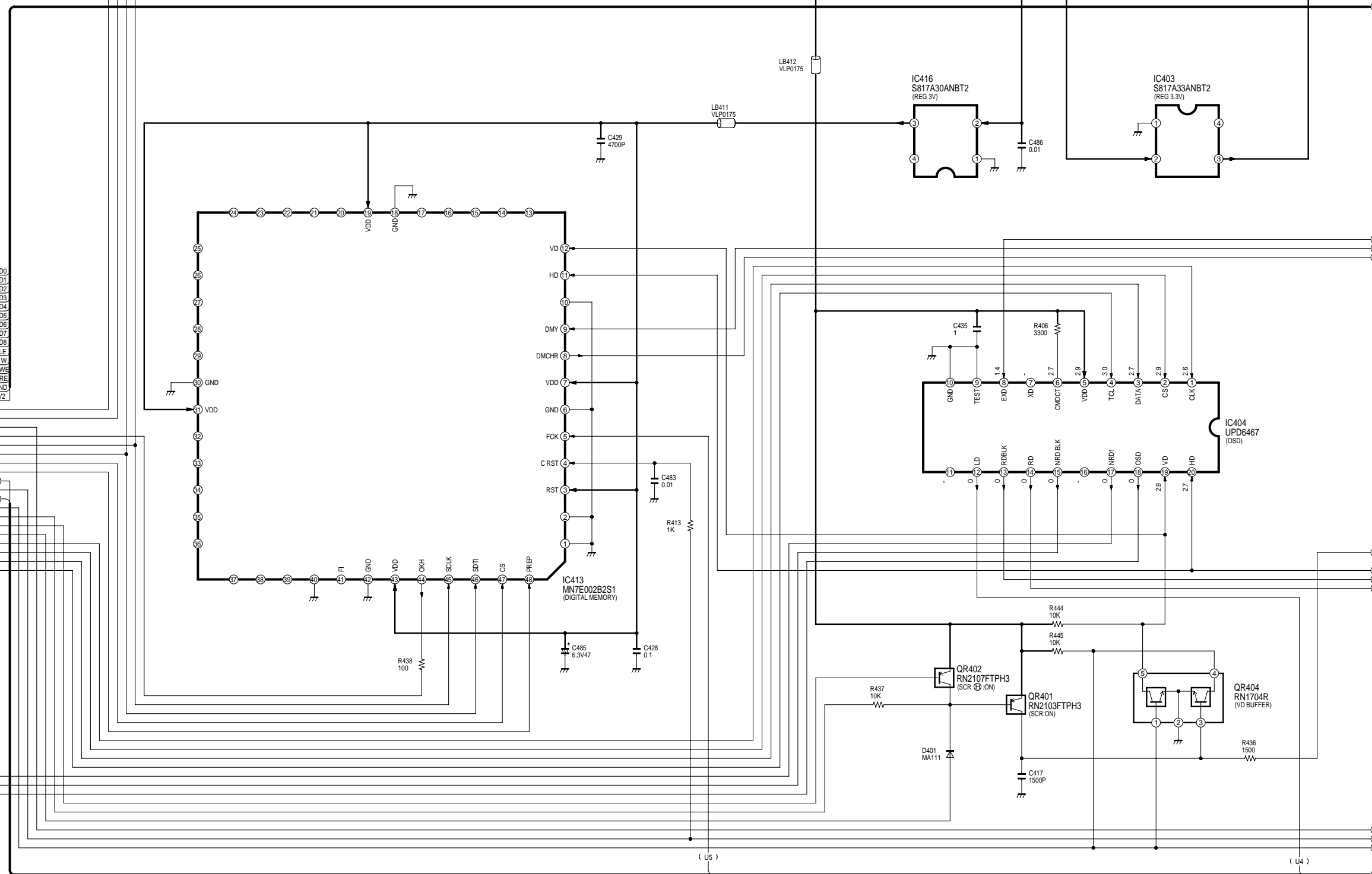
55	AD0	ADD
56	AD1	AD1
57	AD2	AD2
58	AD3	AD3
59	AD4	AD4
60	AD5	AD5
61	AD6	AD6
62	AD7	AD7
63	AD8	AD8
64	ALE	ALE
72	R/W	R/W
52	WE	WE
53	RE	RE
1	BEND	BEND
2	V1V2	V1V2
65	CG CS	
3	ENC RST	
68	REF25	
67	OK	
74	E2 SBT	
73	E2 SBO	
77	DM CS	
66	DM PROF	
75	P DOWN	
51	DSP RST	
54	OSD V	
69	SYS VD	
4	ART V	
5	SCR	
49	CAM TEST	
71	V CLK	
76	OSD CS	
70	V DATA	
50	OSD RST	

TO LCD/
Page:37

11	LCD NRD
12	LCD NRD BK

TO POWER/
Page:38

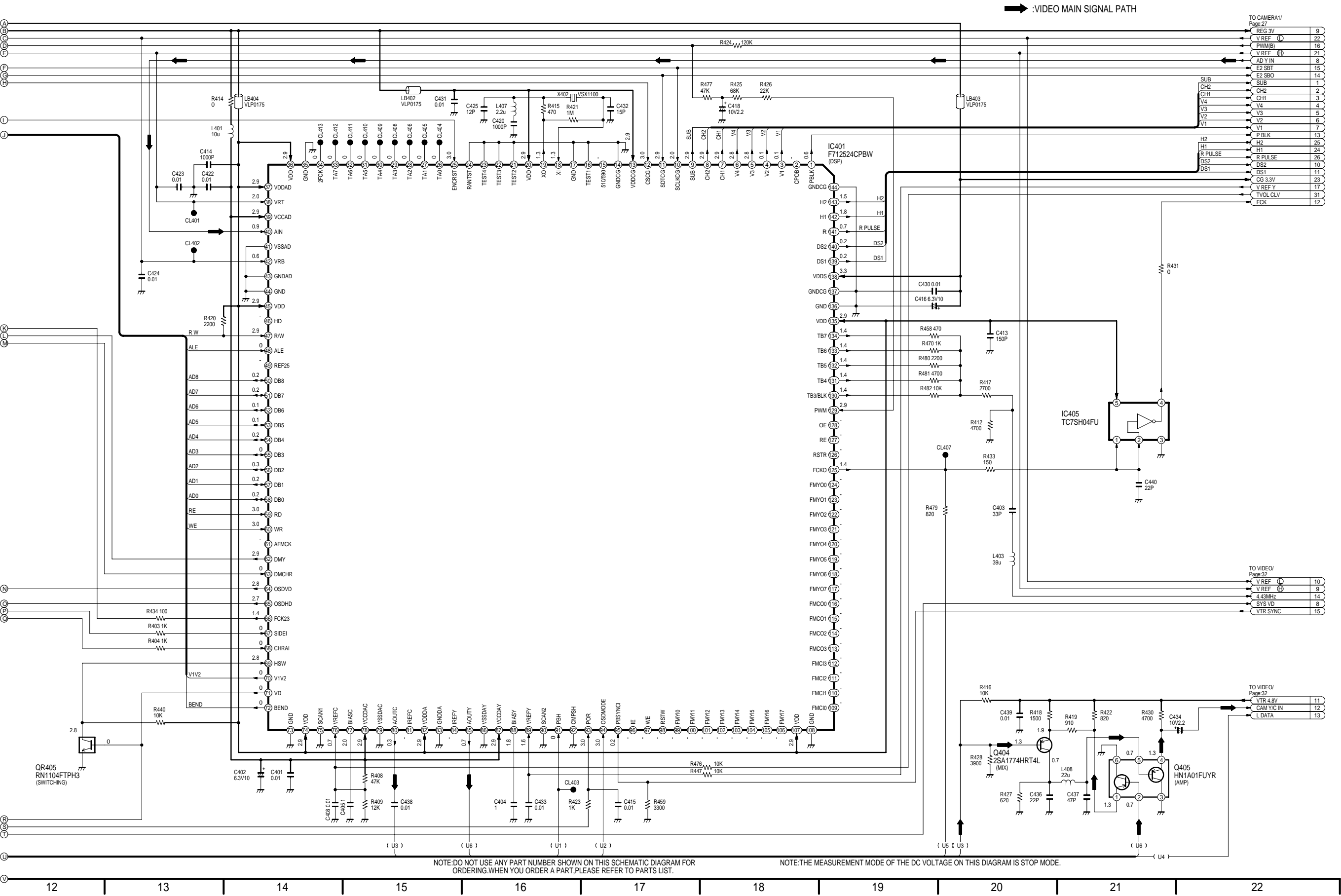
13	OSD IN
----	--------



G
F
E
D
C
B
A

(A)
(B)
(C)
(D)
(E)
(F)
(G)
(H)
(I)
(J)
(K)
(L)
(M)
(N)
(O)
(P)
(Q)
(R)
(S)
(T)
(U)

1 2 3 4 5 6 7 8 9 10 11



TO CAMERA1/ Page:27

REG 3V	9
V REF	22
PWMB	16
V REF	21
AD Y IN	8
E2 SBT	15
E2 SBO	14
SUB	1
CH2	2
CH1	3
V4	4
V3	5
V2	6
V1	7
P BLK	13
H2	25
H1	24
R PULSE	26
DS2	10
DS1	11
CG 3.3V	23
V REF Y	17
TVOL CLV	31
FCK	12

TO VIDEO/ Page:32

V REF	10
V REF	9
4.43MHz	14
SYS VD	8
VTR SYNC	15

TO VIDEO/ Page:32

VTR 4.8V	11
CAM Y/C IN	12
L DATA	13

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

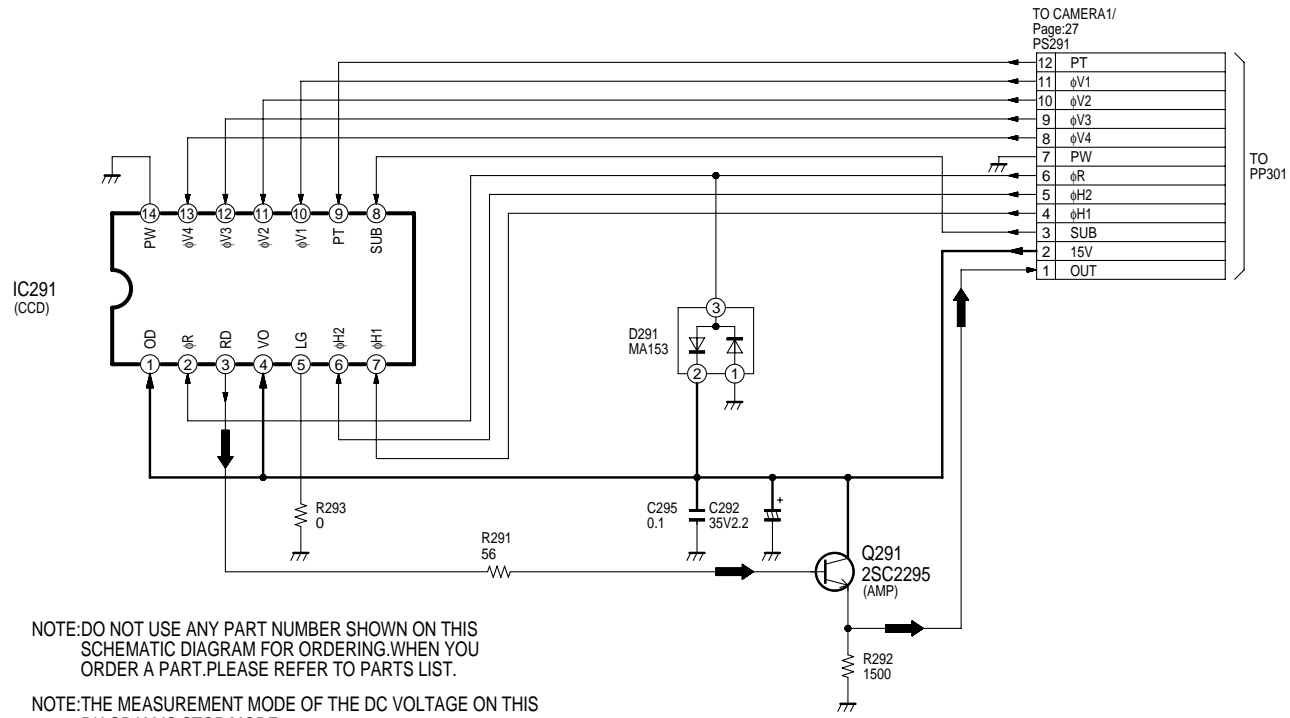
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

➔ :VIDEO MAIN SIGNAL PATH

C

B

A



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

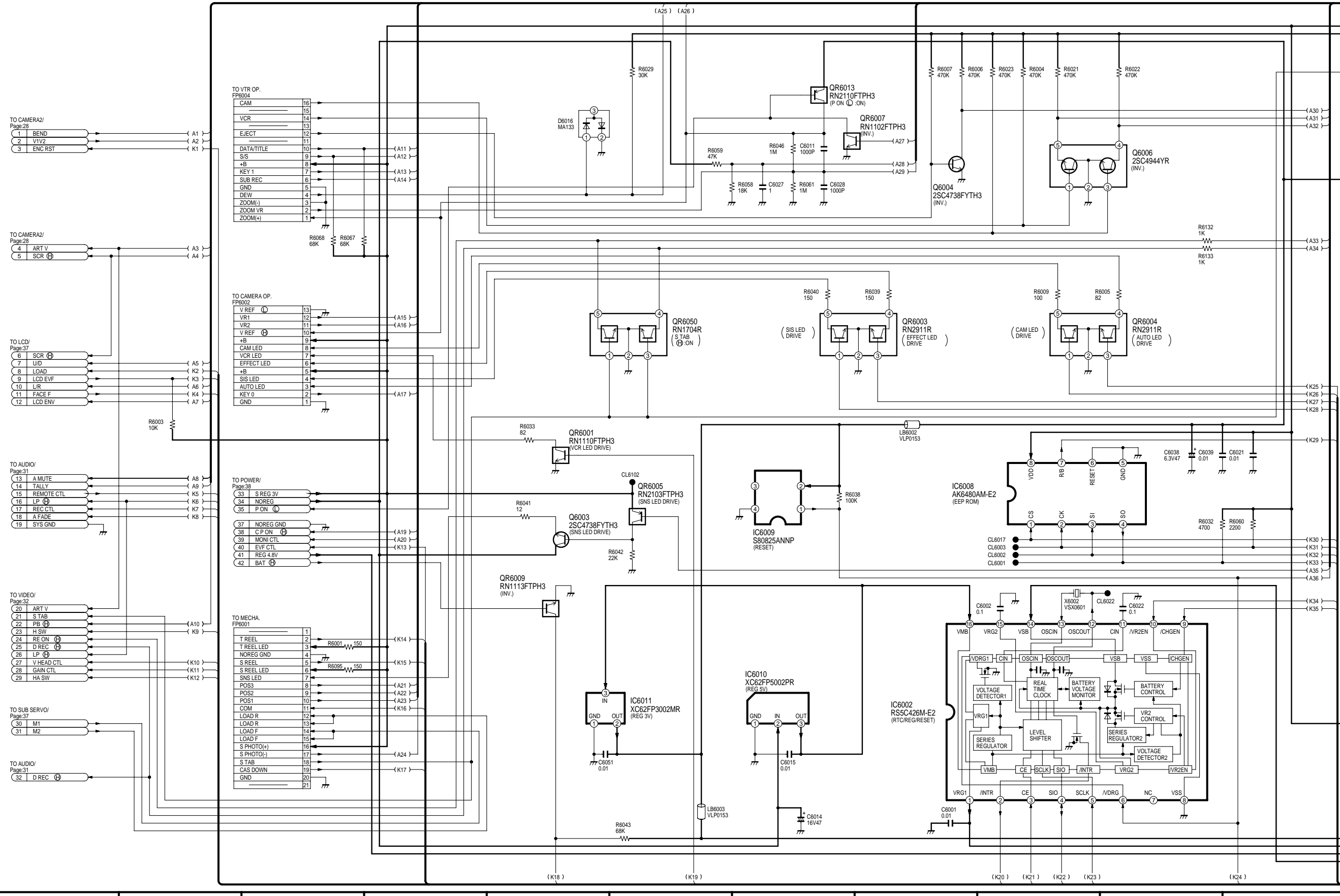
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

1

2

3

4



TO VTR OP.
FP6004

CAM	16
VCR	15
EJECT	14
DATA/TITLE	13
S/S	12
+B	11
KEY 1	10
SUB REC	9
GND	8
DEW	7
ZOOM(-)	6
ZOOM VR	5
ZOOM(+)	4
GND	3
GND	2
GND	1

TO CAMERA OP.
FP6002

V REF	13
VR1	12
VR2	11
V REF	10
+B	9
CAM LED	8
VCR LED	7
EFFECT LED	6
+B	5
SIS LED	4
AUTO LED	3
KEY 0	2
GND	1

TO POWER/
Page:38

33	S REG 3V
34	NOREG
35	P ON

TO MECHA.
FP6001

1	T REEL
2	T REEL LED
3	NOREG GND
4	S REEL
5	S REEL LED
6	SNS LED
7	POS3
8	POS2
9	POS1
10	COM
11	LOAD R
12	LOAD R
13	LOAD F
14	LOAD F
15	S PHOTO(+)
16	S PHOTO(-)
17	S TAB
18	CAS DOWN
19	GND
20	GND
21	GND

TO CAMERA2/
Page:28

1	BEND
2	VIV2
3	ENC RST

TO CAMERA2/
Page:28

4	ART V
5	SCR

TO LCD/
Page:37

6	SCR
7	UD
8	LOAD
9	LCD EVF
10	L/R
11	FACE F
12	LCD ENV

TO AUDIO/
Page:31

13	A MUTE
14	TALLY
15	REMOTE CTL
16	LP
17	REC CTL
18	A FADE
19	SYS GND

TO VIDEO/
Page:32

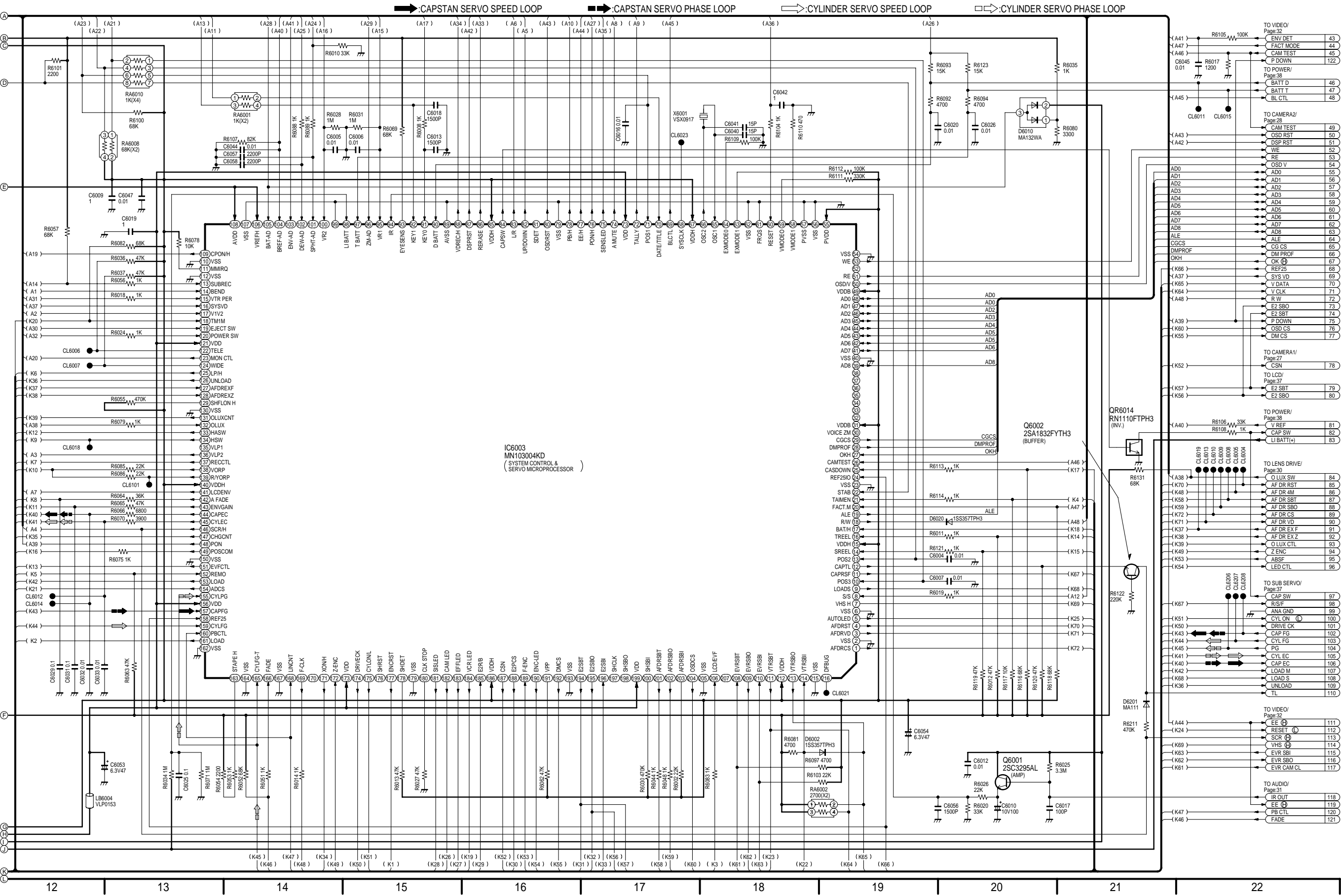
20	ART V
21	S TAB
22	PB
23	H SW
24	RE ON
25	D REC
26	LP
27	V HEAD CTL
28	GAIN CTL
29	HA SW

TO SUB SERVO/
Page:37

30	M1
31	M2

TO AUDIO/
Page:31

32	D REC
----	-------



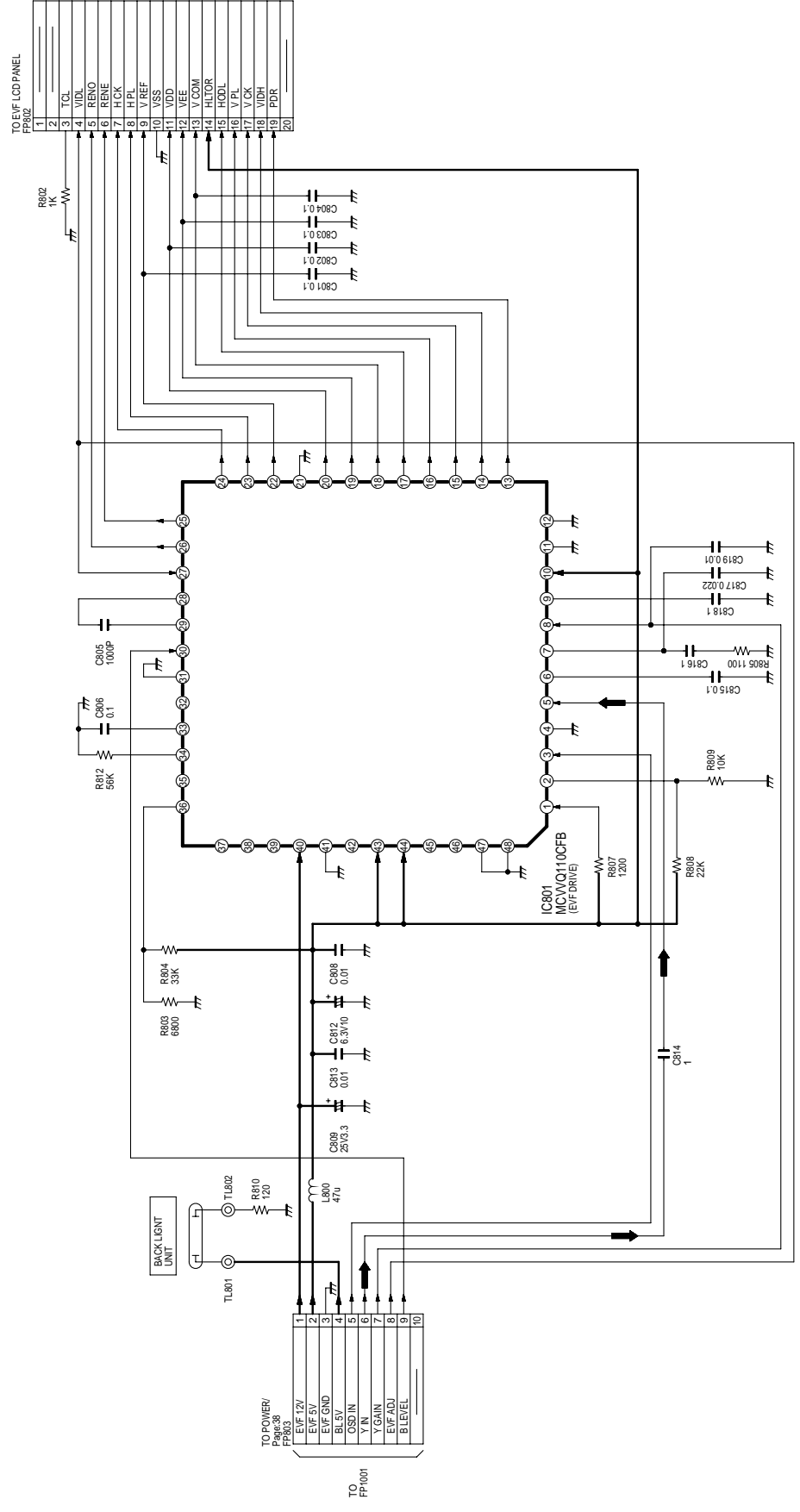
IC6003
MN103004KD
(SYSTEM CONTROL & SERVO MICROPROCESSOR)

Q6002
2SA1832FYTH3
(BUFFER)

Q6001
2SC3295AL
(AMP)

(A41)	R6105 100K	TO VIDEO/ Page:32	ENV DET	43
(A47)			FACT MODE	44
(A46)			CAM TEST	45
C6045 0.01	R6017 1200		P DOWN	122
(A45)		TO POWER/ Page:38	BATT D	46
			BATT T	47
			BL CTL	48
(A43)		TO CAMERA2/ Page:28	CAM TEST	49
(A42)			OSD RST	50
			DSP RST	51
			WE	52
			RE	53
			OSD V	54
			AD0	55
			AD1	56
			AD2	57
			AD3	58
			AD4	59
			AD5	60
			AD6	61
			AD7	62
			AD8	63
			ALE	64
			CG CS	65
			DM PROF	66
			OK	67
			REF25	68
(K66)			SYS VD	69
(A37)			V DATA	70
(K65)			V CLK	71
(K64)			E2 SBO	72
(A48)			E2 SBT	73
			P DOWN	74
(A39)			OSD CS	75
(K60)			DM CS	76
(K55)			C SN	78
		TO CAMERA1/ Page:27	V REF	81
			CAP SW	82
			LI BATT(+)	83
(A40)	R6106 33K	TO POWER/ Page:38	V REF	81
	R6108 1K		CAP SW	82
			LI BATT(+)	83
		TO LENS DRIVE/ Page:30	O LUX SW	84
(A38)	CL6019		AF DR RST	85
(K70)	CL6013		AF DR 4M	86
(K48)	CL6017		AF DR SBT	87
(K58)	CL6008		AF DR SBO	88
(K59)	CL6009		AF DR CS	89
(K72)	CL6008		AF DR VD	90
(K71)	CL6005		AF DR EX F	91
(K18)	CL6004		AF DR EX Z	92
(K38)			O LUX CTL	93
(K39)			Z ENC	94
(K49)			ABSF	95
(K53)			LED CTL	96
(K54)				
		TO SUB SERVO/ Page:37	CAP SW	97
(K67)	CL6026		R/S/F	98
	CL6027		ANA GND	99
(K51)			CYL ON	100
(K50)			DRIVE CK	101
(K43)			CAP FG	102
(K44)			CYL FG	103
(K45)			PG	104
(K41)			CYL EC	105
(K40)			CAP EC	106
(K42)			LOAD M	107
(K68)			LOAD S	108
(K36)			UNLOAD	109
			TL	110
(A44)		TO VIDEO/ Page:32	EE	111
(K24)			RESET	112
			SCR	113
(K69)			VHS	114
(K63)			EVR SBI	115
(K62)			EVR SBO	116
(K61)			EVR CAM CL	117
		TO AUDIO/ Page:31	IR OUT	118
(K47)			EE	119
			PB CTL	120
(K46)			FADE	121

↑ VIDEO MAIN SIGNAL PATH



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

D

C

B

A

1

2

3

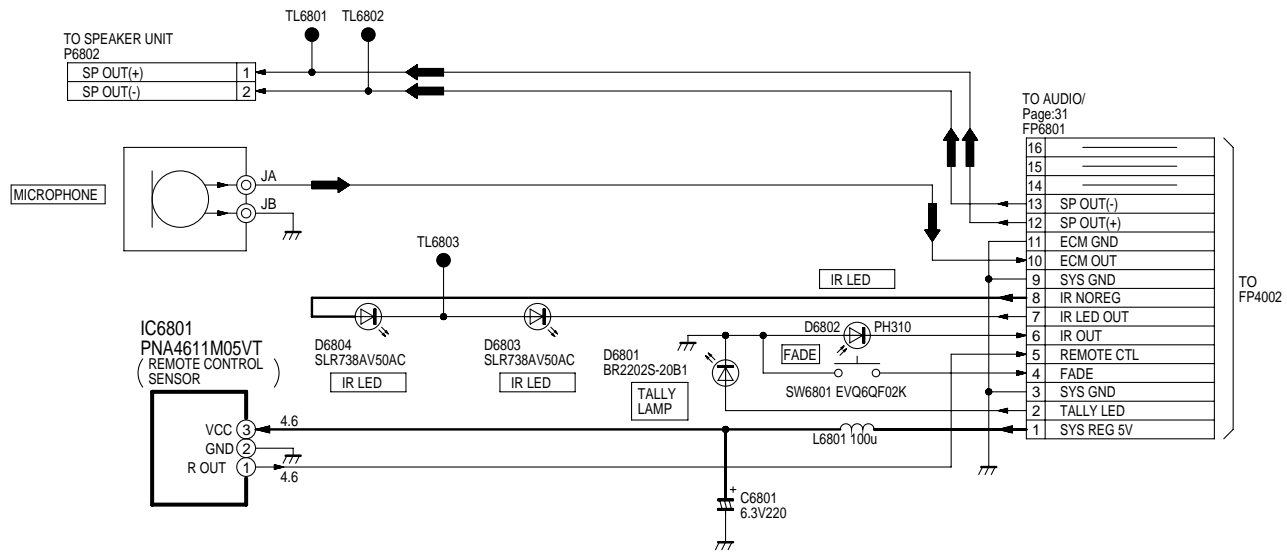
4

5

6

7

➔:AUDIO MAIN SIGNAL PATH



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

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

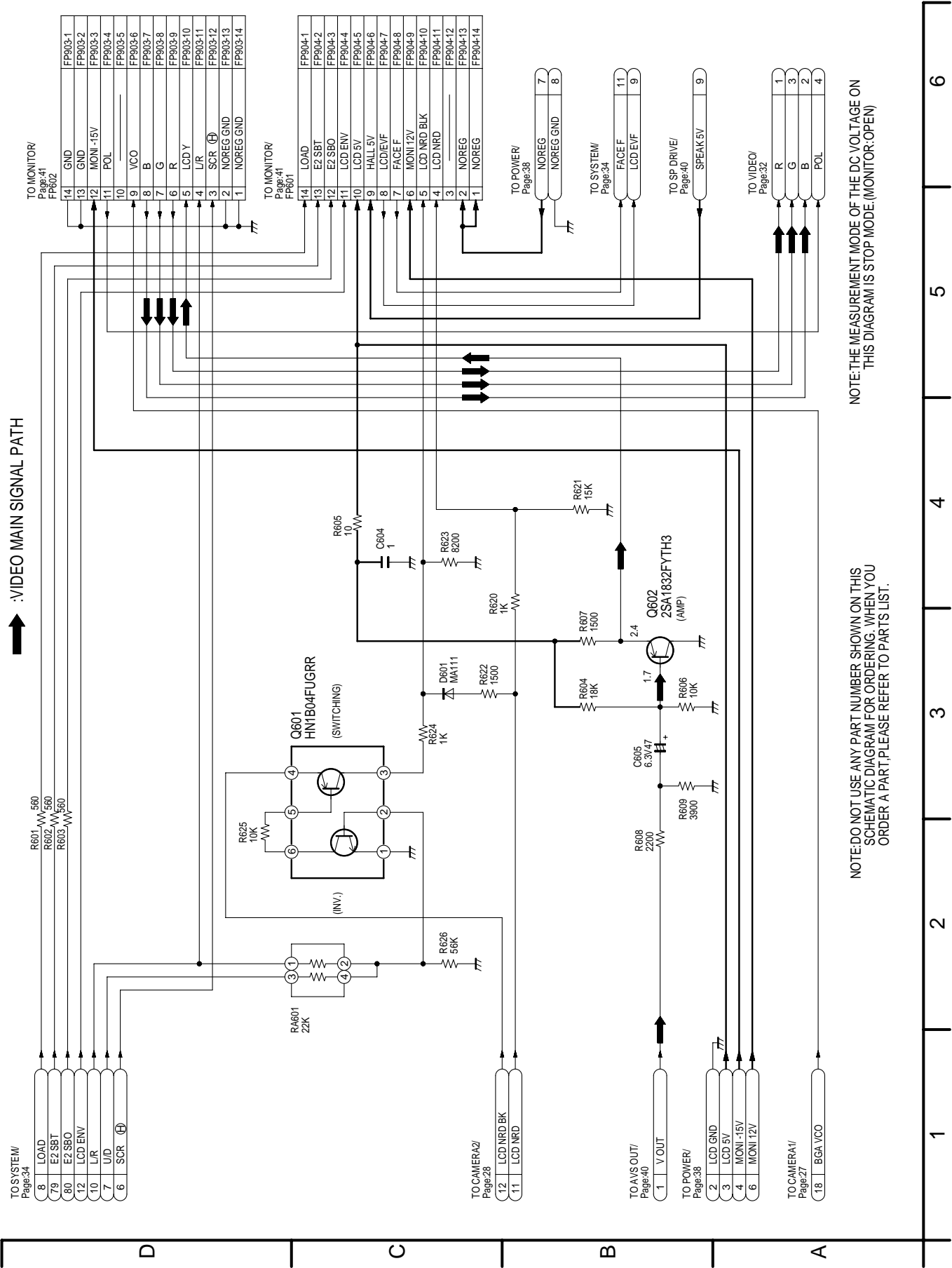
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

1

2

3

4



↑ VIDEO MAIN SIGNAL PATH

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

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

D

C

B

A

1

2

3

4

5

6

TO POWER/
Page:30

1	NOREG
2	AF GND

TO VIDEO/
Page:32

7	IRIS OPEN
---	-----------

TO CAMERA2/
Page:28

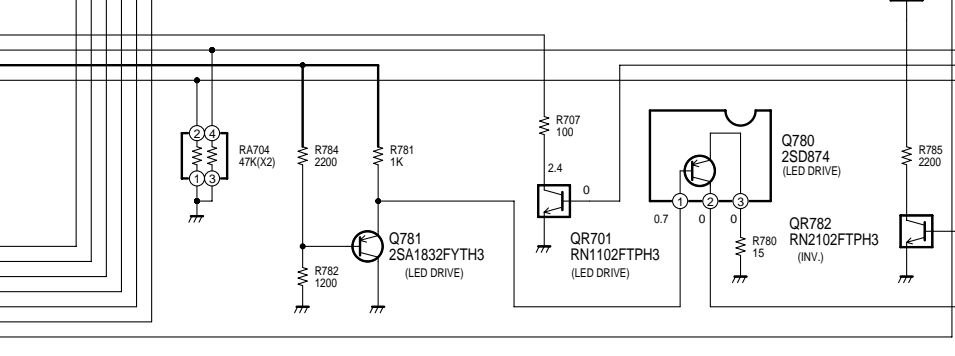
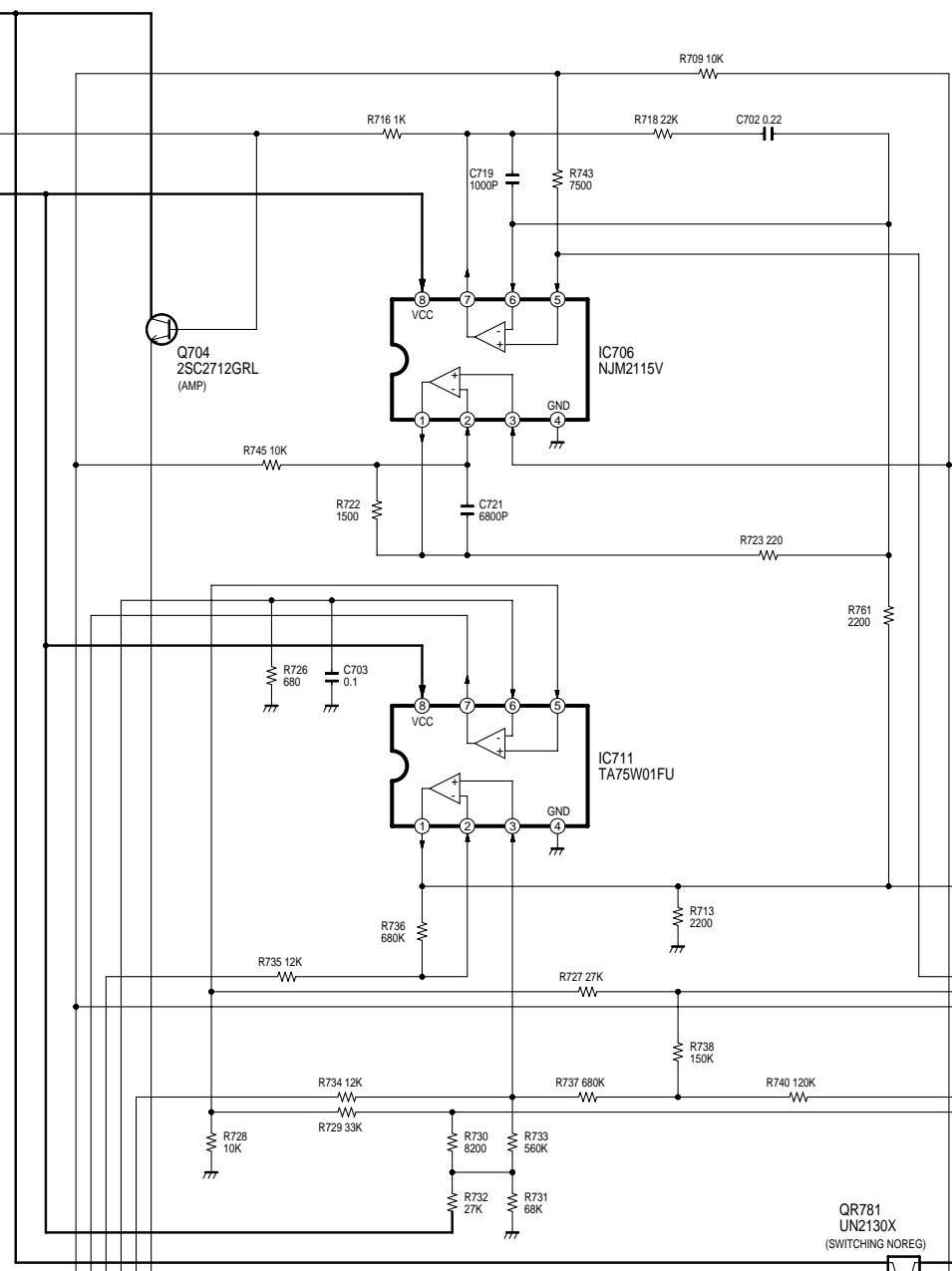
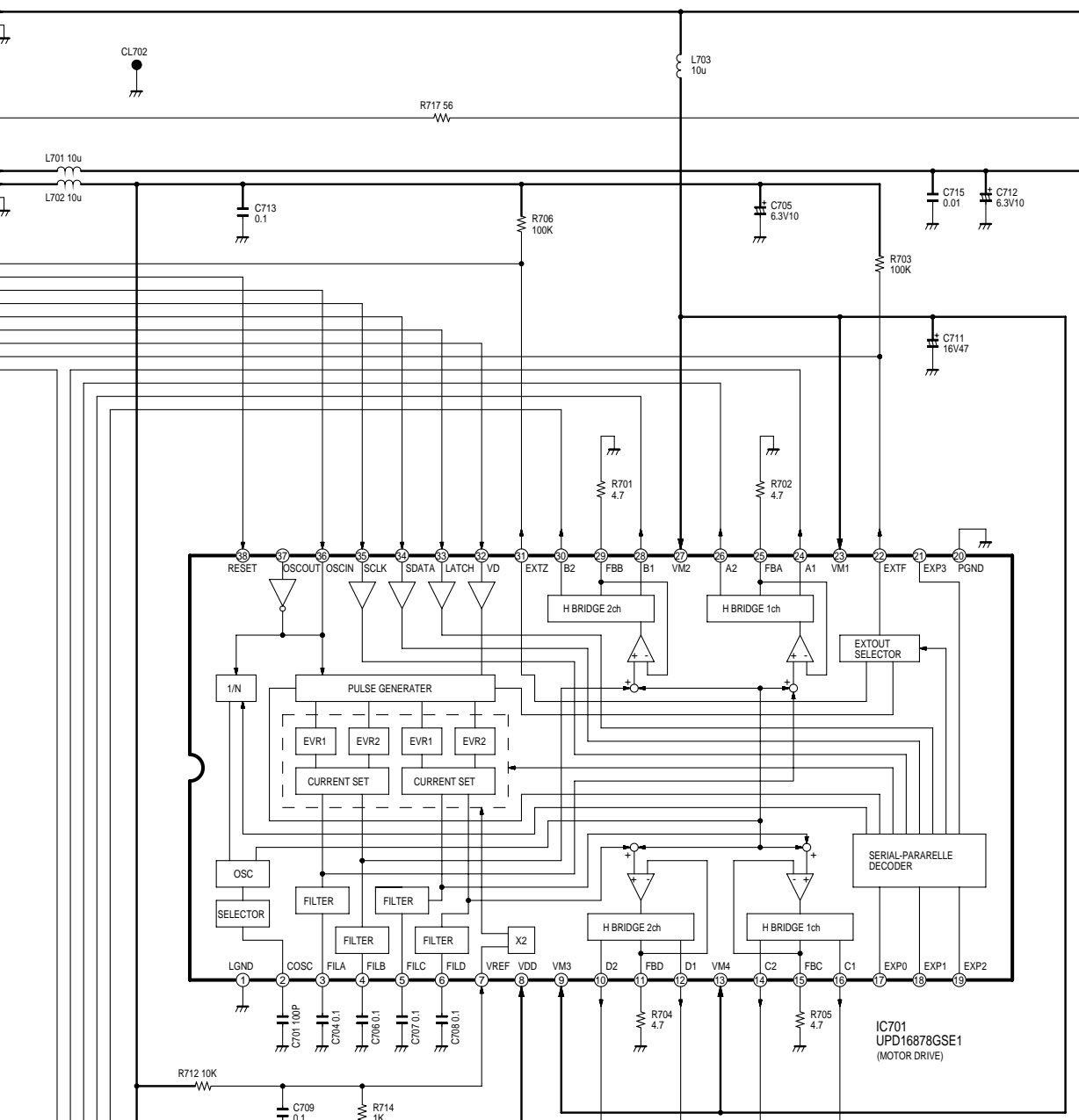
1	REG 4.8V
2	REG 3V
6	CAM GND

TO SYSTEM/
Page:34

82	AF DR EX Z
85	AF DR RST
86	AF DR 4M
87	AF DR SBT
88	AF DR SB0
89	AF DR CS
90	AF DR VD
91	AF DR EX F
84	O LUX SW

TO LENS FLEX.
FP701

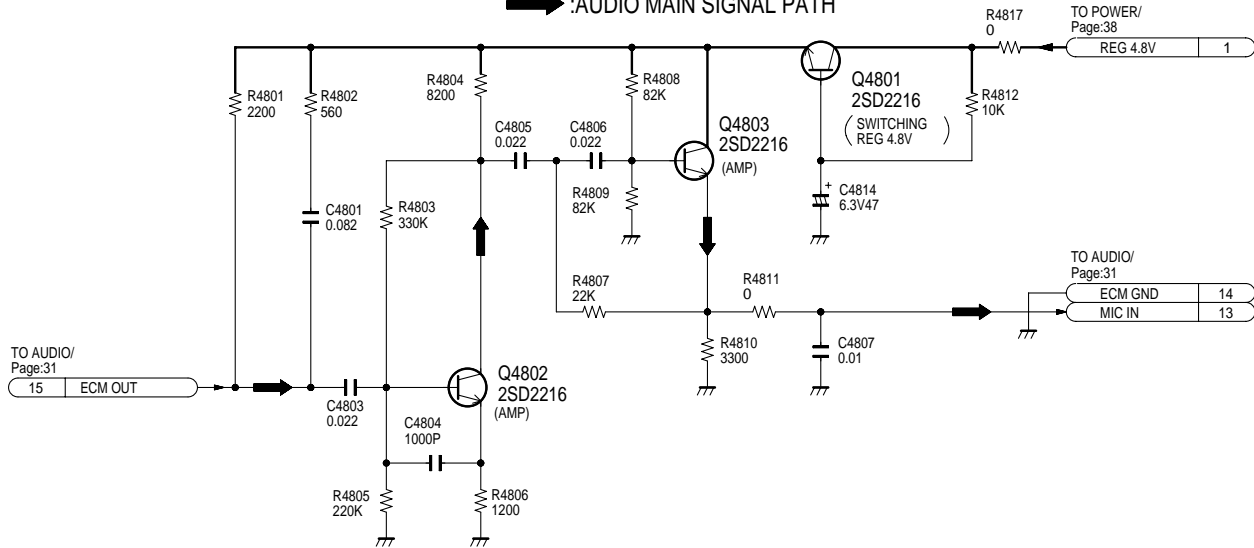
LED CTL	21
Z ENC	20
F ENC VCC	19
F ENC	18
ZM T4	17
ZM T1	16
ZM T2	15
ZM T3	14
O LUX SW	13
FM T4	12
FM T1	11
FM T2	10
FM T3	9
ALC MAIN(-)	8
ALC CTL(-)	7
HALL IN(+)	6
HALL OUT(-)	5
HALL IN(-)	4
HALL OUT(+)	3
ALC MAIN(+)	2
ALC CTL(+)	1



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 ON THIS DIAGRAM IS STOP MODE.

➔ :AUDIO MAIN SIGNAL PATH



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

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

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

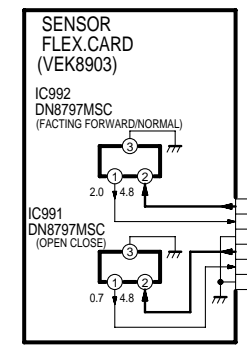
➔ :VIDEO MAIN SIGNAL PATH

TO LCD/ Page:37 FP903

FP602-14	GND	1
FP602-13	GND	2
FP602-12	MONI -15V	3
FP602-11	POL	4
FP602-10		5
FP602-9	VCO	6
FP602-8	B	7
FP602-7	G	8
FP602-6	R	9
FP602-5	LCD Y	10
FP602-4	L/R	11
FP602-3		12
FP602-2	NOREG GND	13
FP602-1	NOREG GND	14

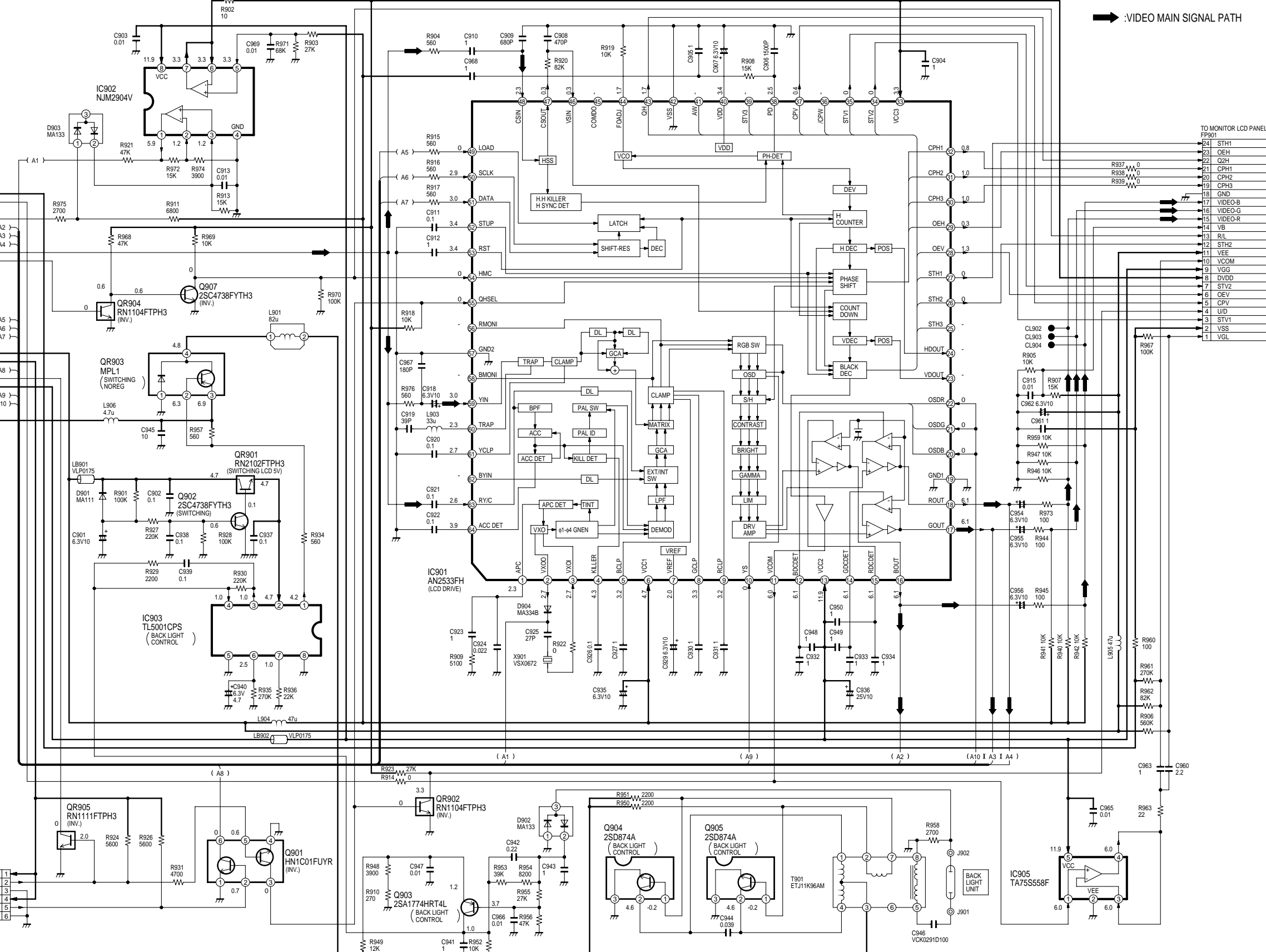
TO LCD/ Page:37 FP904

FP601-14	LOAD	1
FP601-13	E2 SBT	2
FP601-12	E2 BSO	3
FP601-11		4
FP601-10	LCD 5V	5
FP601-9	HALL 5V	6
FP601-8	LCD/EVF	7
FP601-7	FACE F	8
FP601-6	MONI 12V	9
FP601-5	LCD NRD BK	10
FP601-4	LCD NRD	11
FP601-3		12
FP601-2	NOREG	13
FP601-1	NOREG	14



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

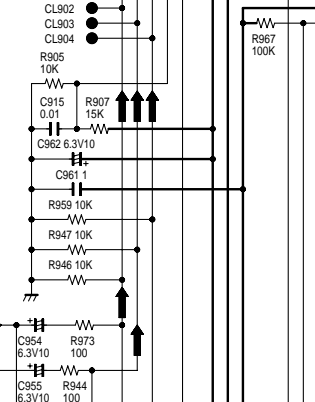
1 2 3 4 5 6 7 8 9 10 11



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

TO MONITOR LCD PANEL FP901

24	STH1
23	OEH
22	O2H
21	CPH1
20	CPH2
19	CPH3
18	GND
17	VIDEO-B
16	VIDEO-G
15	VIDEO-R
14	VB
13	R/L
12	STH2
11	VEE
10	VCOM
9	VD
8	DVDD
7	STV2
6	OEV
5	CPV
4	UID
3	STV1
2	VSS
1	VGL



34	NOREG
42	BAT (+)
81	V REF
37	NOREG GND
38	C P ON (+)
39	MONI CTL
40	EVF CTL
33	S REG 3V
82	CAP SW
41	REG 4.8V

48	BL CTL
35	P ON (+)
83	LI BATT(+)
47	BATT T
46	BATT D

TO REAR CASE UNIT
PS1003

BATT D	1
BATT T	2
BATT (+)	3
DC IN	4
NOREG GND	5
LI BATT(+)	6

TO SUB SERVO/
Page:37

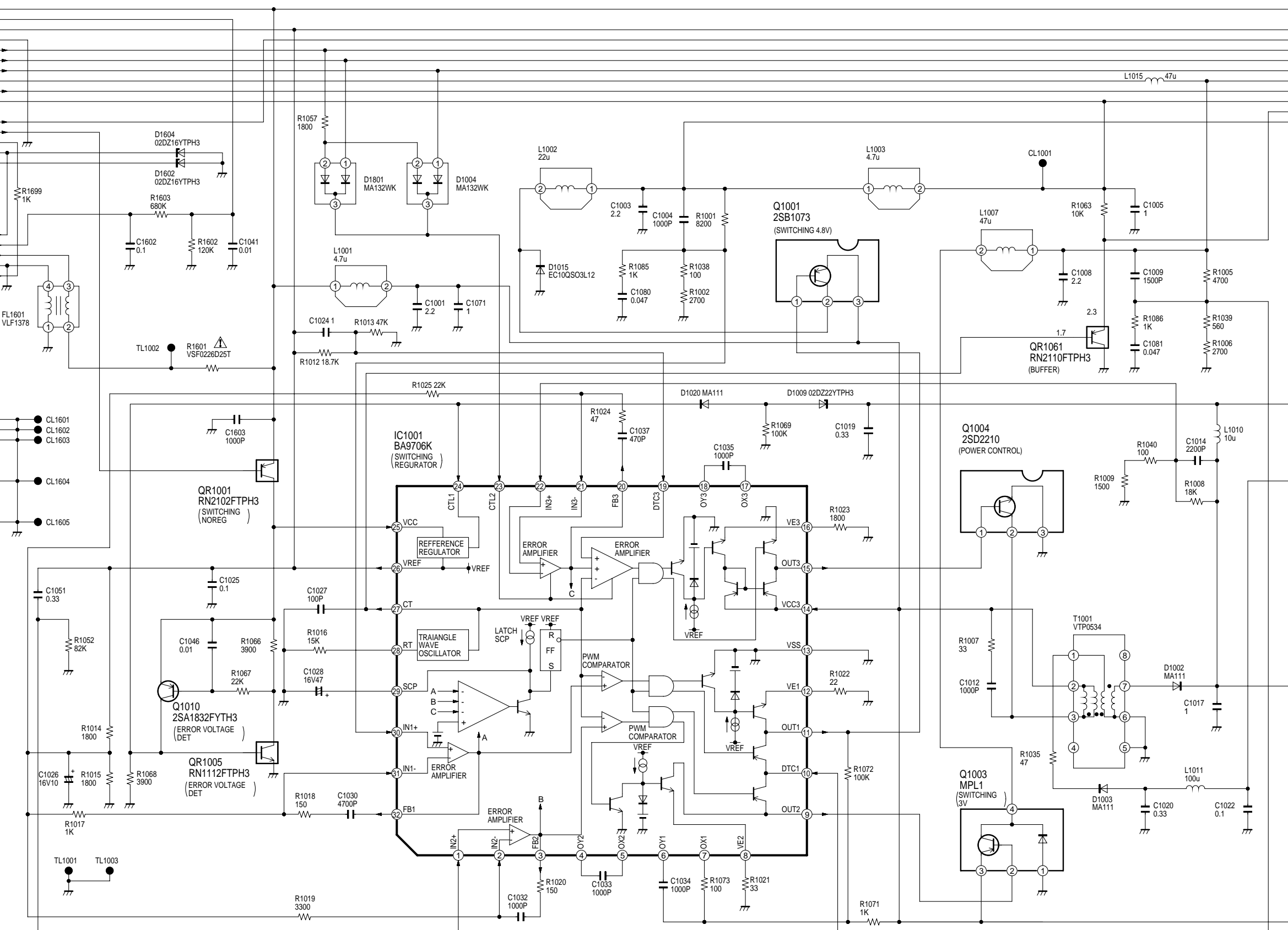
8	CAP GND	●	CL1601
7	CYL GND	●	CL1602
9	LD GND	●	CL1603

TO LCD/
Page:37

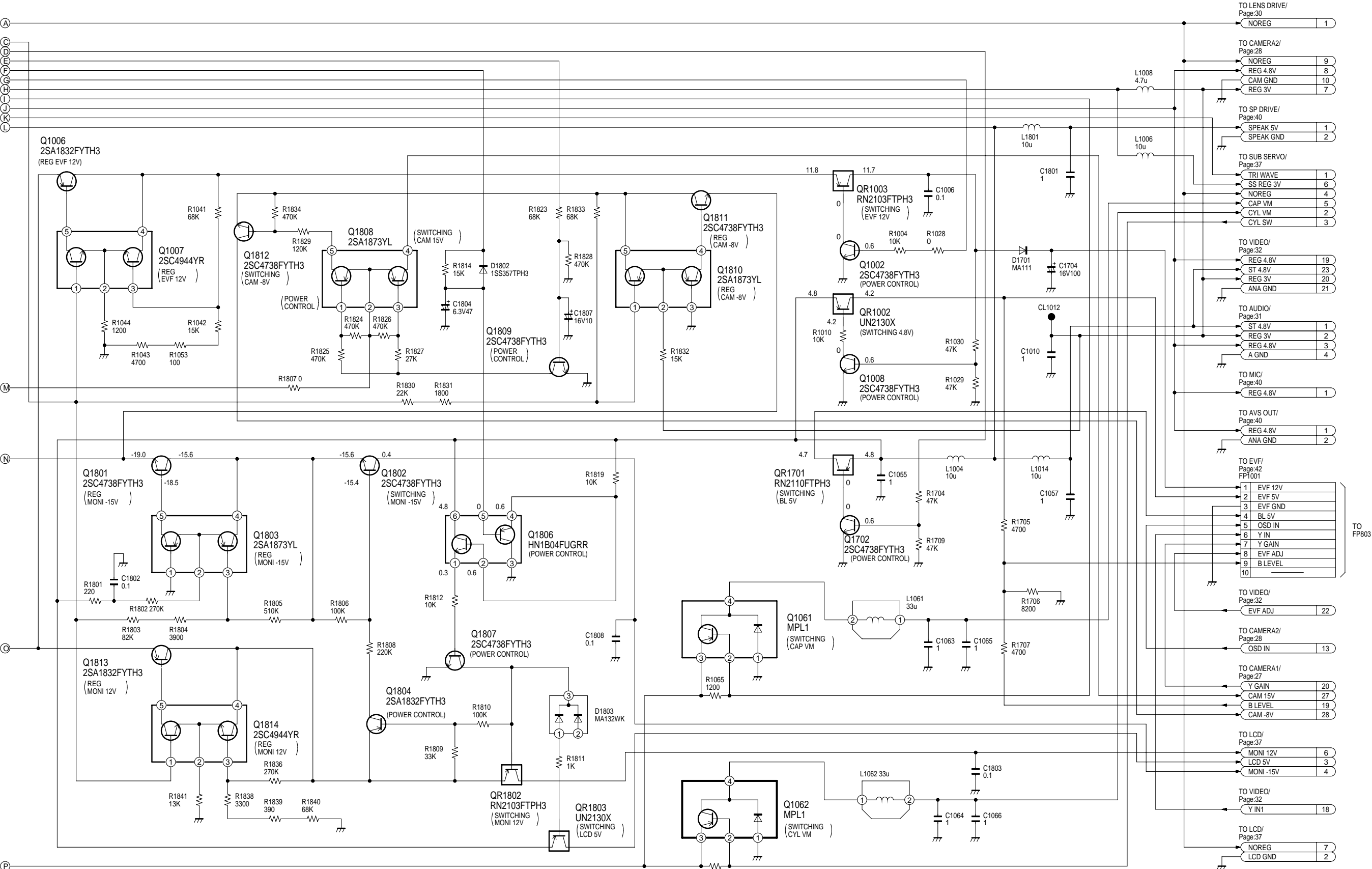
8	NOREG GND	●	CL1604
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TO LENS DRIVE/
Page:30

2	AF GND	●	CL1605
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IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

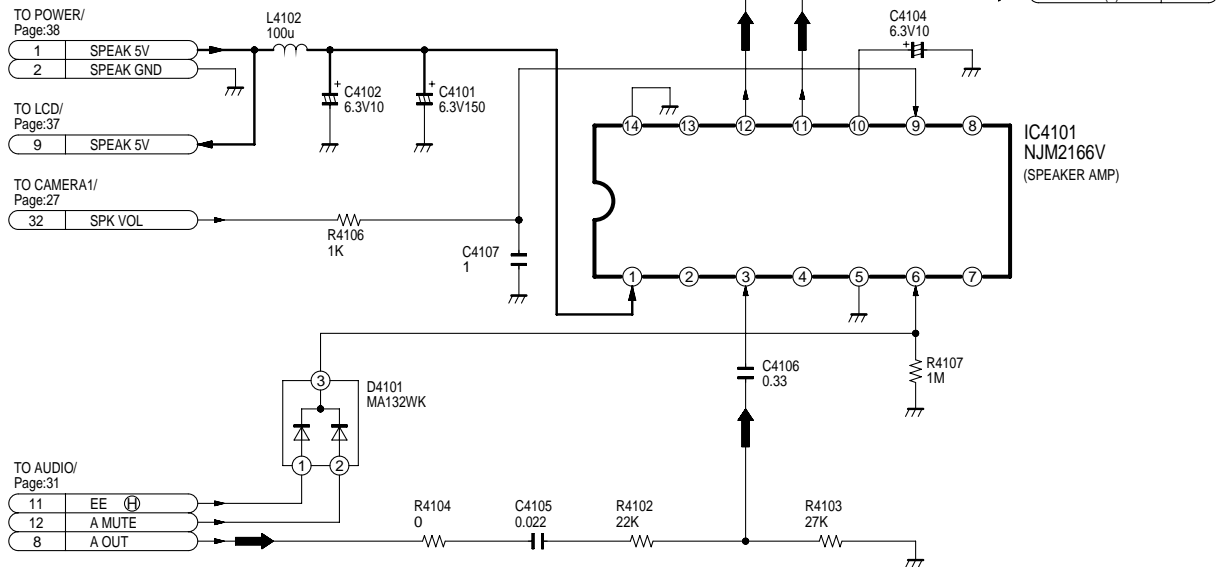


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

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

TO LENS DRIVE/ Page:30	NOREG	1
TO CAMERA2/ Page:28	NOREG	9
	REG 4.8V	8
	CAM GND	10
	REG 3V	7
TO SP DRIVE/ Page:40	SPEAK 5V	1
	SPEAK GND	2
TO SUB SERVO/ Page:37	TRI WAVE	1
	SS REG 3V	6
	NOREG	4
	CAP VM	5
	CYL VM	2
	CYL SW	3
TO VIDEO/ Page:32	REG 4.8V	19
	ST 4.8V	23
	REG 3V	20
	ANA GND	21
TO AUDIO/ Page:31	ST 4.8V	1
	REG 3V	2
	REG 4.8V	3
	A GND	4
TO MIC/ Page:40	REG 4.8V	1
TO AVS OUT/ Page:40	REG 4.8V	1
	ANA GND	2
TO EVF/ Page:42 FP1001	1 EVF 12V	
	2 EVF 5V	
	3 EVF GND	
	4 BL 5V	
	5 OSD IN	
	6 Y IN	
	7 Y GAIN	
	8 EVF ADJ	
	9 B LEVEL	
	10	
TO VIDEO/ Page:32	EVF ADJ	22
TO CAMERA2/ Page:28	OSD IN	13
TO CAMERA1/ Page:27	Y GAIN	20
	CAM 15V	27
	B LEVEL	19
	CAM -8V	28
TO LCD/ Page:37	MONI 12V	6
	LCD 5V	3
	MONI -15V	4
TO VIDEO/ Page:32	Y IN1	18
TO LCD/ Page:37	NOREG	7
	LCD GND	2

➔ :AUDIO MAIN SIGNAL PATH



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

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

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

1

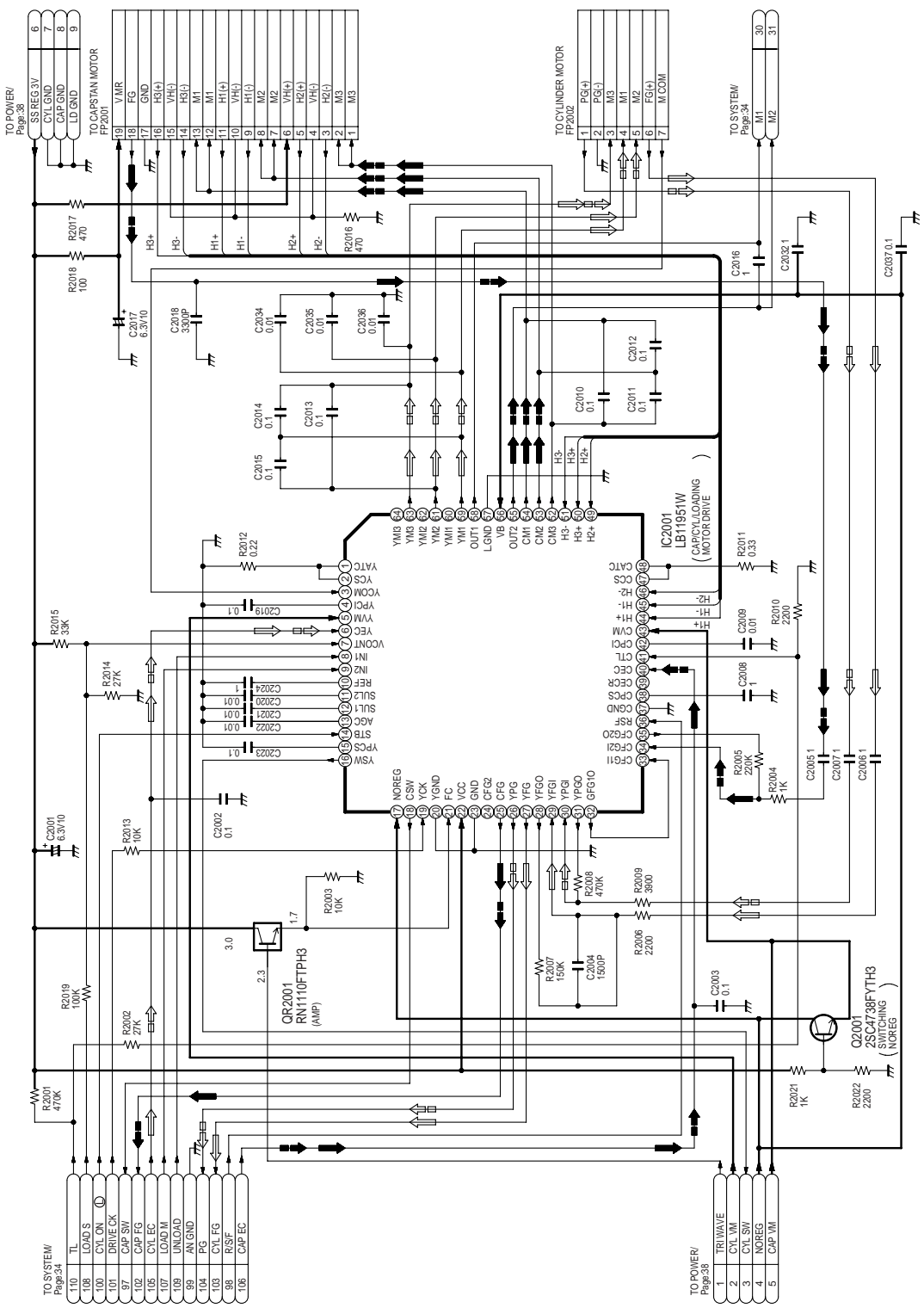
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3

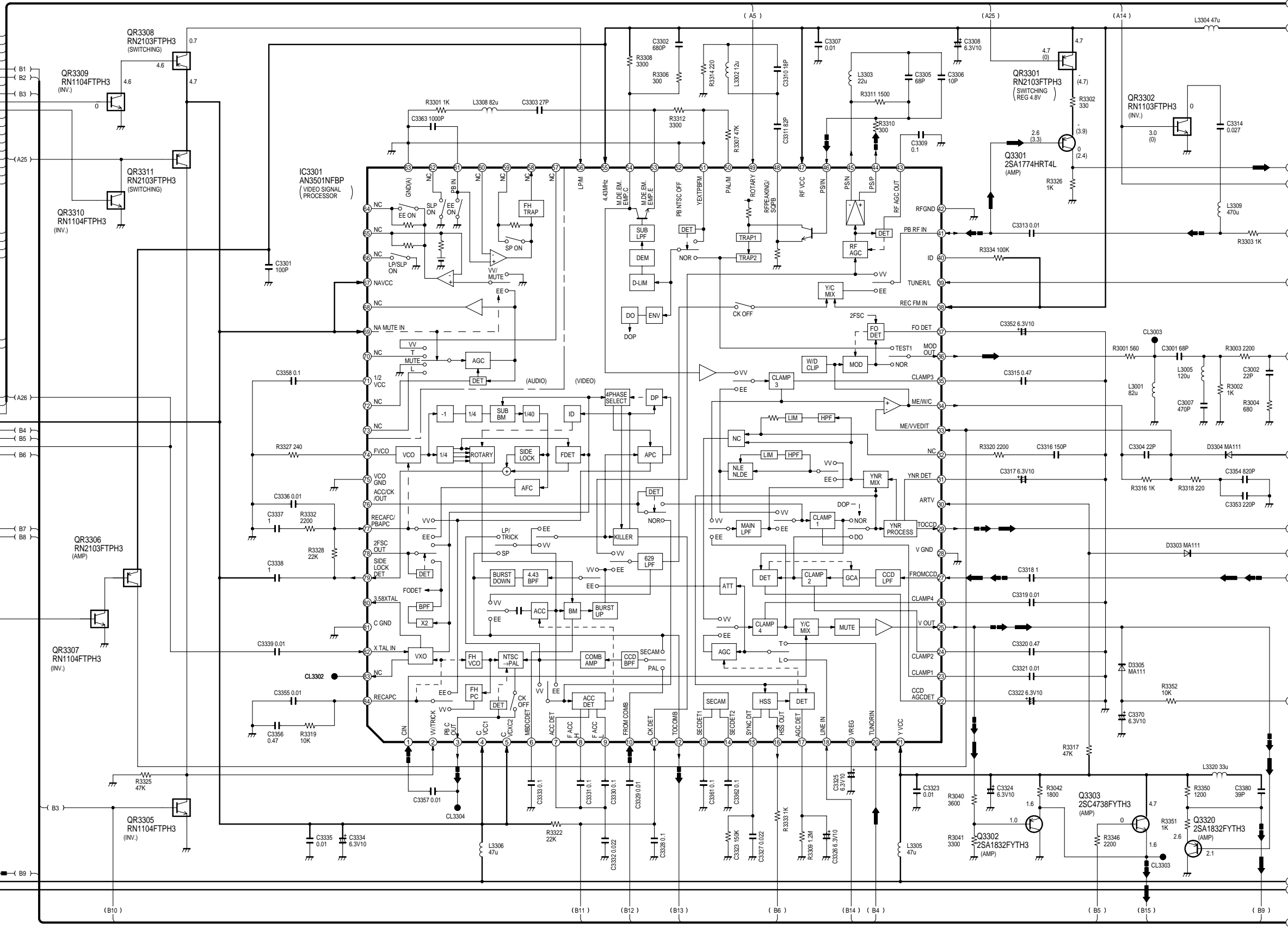
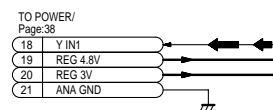
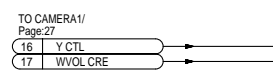
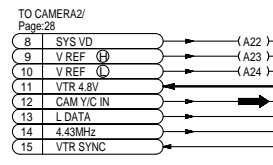
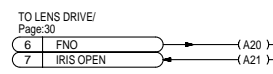
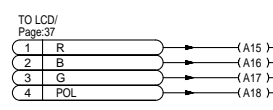
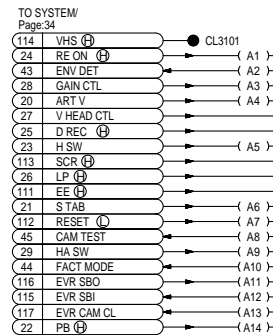
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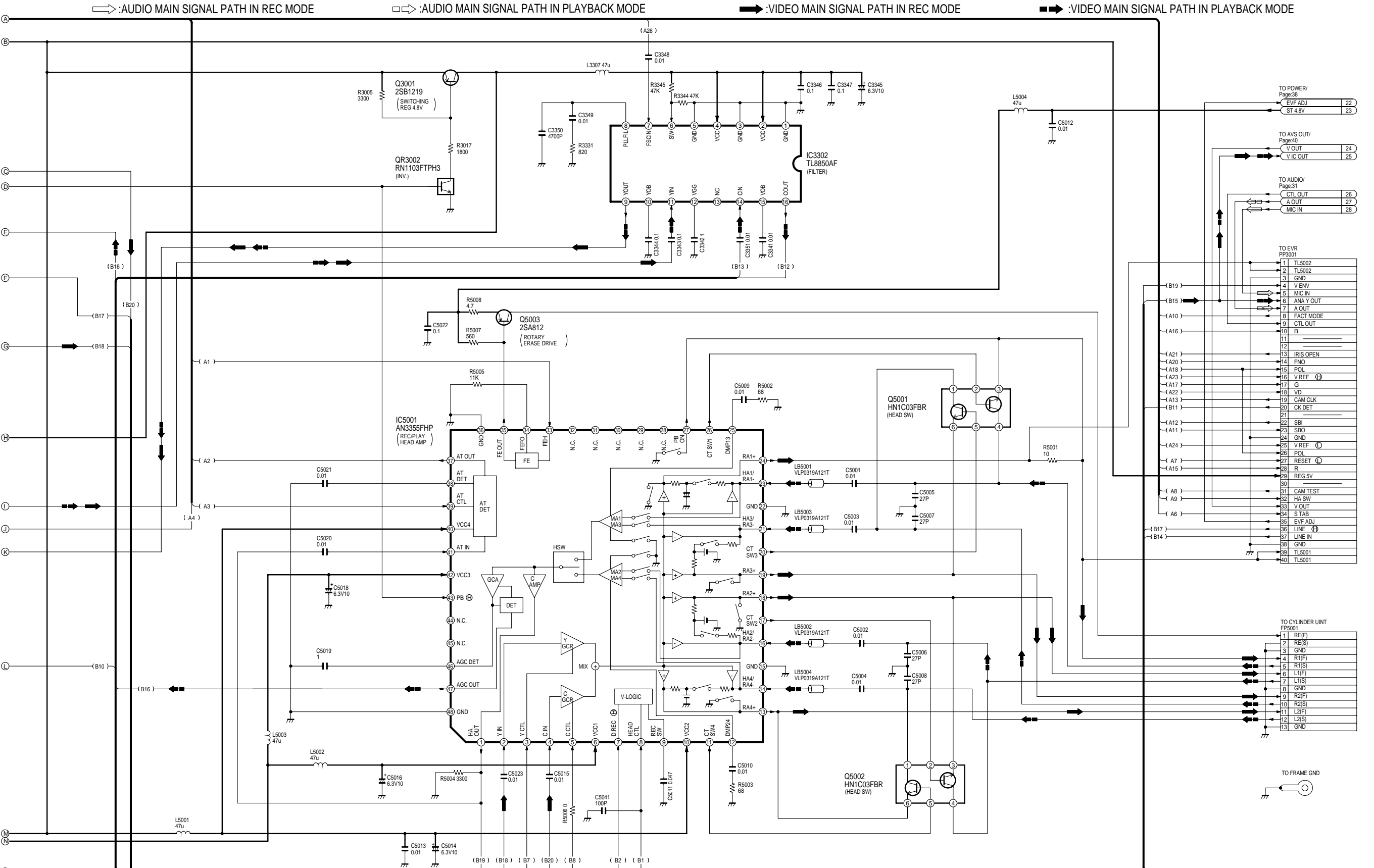
↑↑ :CAPSTAN SERVO SPEED LOOP
 ↑↑ :CAPSTAN SERVO PHASE LOOP

↑↑ :CYLINDER SERVO SPEED LOOP
 ↑↑ :CYLINDER SERVO PHASE LOOP



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING WHEN YOU ORDER A 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)





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 BRACKET () ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKET () ON THIS DIAGRAM IS PLAYBACK MODE.

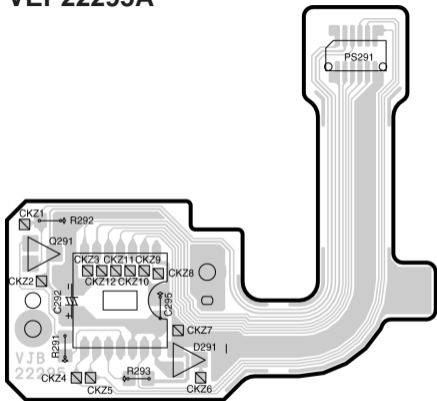
Camera/Main C.B.A.

Table with columns for Component, Value, and Footprint. Includes sections for Transistor, Resistor, Diode, Capacitor, and Coil. Components include QR705, QR781, QR782, etc., and values include D-5, C, E-7, etc.

Monitor C.B.A.

Integrated Circuit		Diode		C910	C-2	C941	B-3	R905	B-4	R936	B-3	R963	B-4
IC901	C-3	D901	B-2	C911	C-2	C942	B-3	R906	B-4	R937	C-3	R967	B-4
IC902	C-2	D902	B-4	C912	C-2	C943	B-4	R907	B-4	R938	C-4	R968	C-2
IC903	B-3	D903	C-2	C913	C-2	C944	B-4	R908	C-3	R939	C-4	R969	C-2
IC905	B-4	D904	C-3	C915	B-4	C945	A-2	R909	C-2	R940	C-4	R970	C-2
Transistor		Coil		C918	C3	C946	A-3	R910	B-4	R941	C-4	R971	C-2
Q901	C-1	L901	A-3	C919	C-2	C947	B-4	R911	C-2	R942	C-4	R972	C-2
Q902	B-2	L903	C-2	C920	C-2	C948	B-3	R913	C-2	R943	B-4	R973	C-4
Q903	B-3	L904	B-3	C921	C-2	C949	B-4	R914	C-2	R944	C-4	R974	B-2
Q904	A-4	L905	B-4	C922	C-2	C950	B-4	R915	C-1	R945	C-4	R975	C-2
Q905	B-4	L906	A-2	C923	C-2	C954	C-4	R916	C-1	R946	C-4	R976	C-2
Q907	C-2	LB901	B-2	C924	C-2	C955	C-4	R917	C-2	R947	C-4		
Transistor & Resistor		LB902	B-4	C925	B-3	C956	C-4	R918	C-2	R948	B-4		
QR901	B-2	Transformer		C926	C-2	C960	B-4	R919	C-3	R949	B-4		
QR902	C-3	T901	A-4	C927	B-3	C961	B-4	R920	C-3	R950	B-4		
QR903	A-3	Crystal Osillator		C929	B-3	C962	B-4	R921	B-3	R951	B-4		
QR904	C-2	X901	B-3	C930	B-3	C963	B-4	R922	B-3	R952	B-3		
QR905	C-1	Capacitor		C931	B-3	C965	B-4	R923	C-2	R953	B-3		
Connector		C901	B-2	C932	B-3	C966	B-3	R924	C-1	R954	B-3		
FP901	C-4	C902	A-2	C933	B-3	C967	C-2	R926	C-1	R955	B-3		
FP902	C-1	C903	C-2	C934	B-4	C968	C-3	R927	A-2	R956	B-3		
FP903	B-3	C904	C-3	C935	B-3	C969	C-2	R928	A-2	R957	A-2		
FP904	B-2	C905	C-3	C936	C-3	Resistor		R929	B-3	R958	B-3		
Test Point		C906	C-3	C937	B-2	R901	A-2	R930	B-3	R959	C-4		
CL902	C-4	C907	C-3	C938	A-1	R902	C-4	R931	C-1	R960	B-4		
CL903	C-4	C908	C-3	C939	B-3	R903	C-2	R934	B-3	R961	B-4		
CL904	C-4	C909	C-2	C940	B-3	R904	C-2	R935	B-3	R962	B-4		

VEP22295A

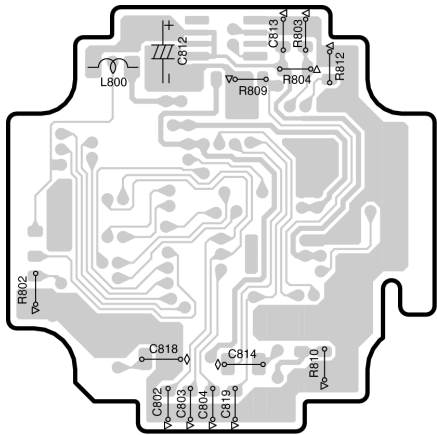


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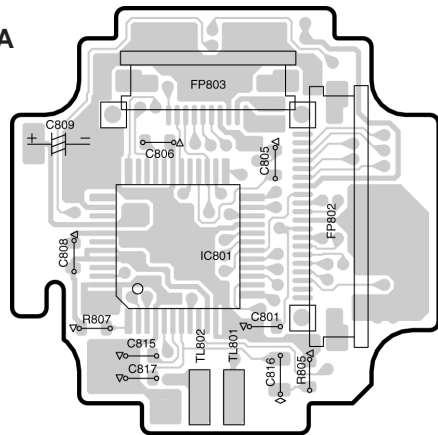
2

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VEP28271A



(COMPONENT SIDE)



(FOIL SIDE)

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F

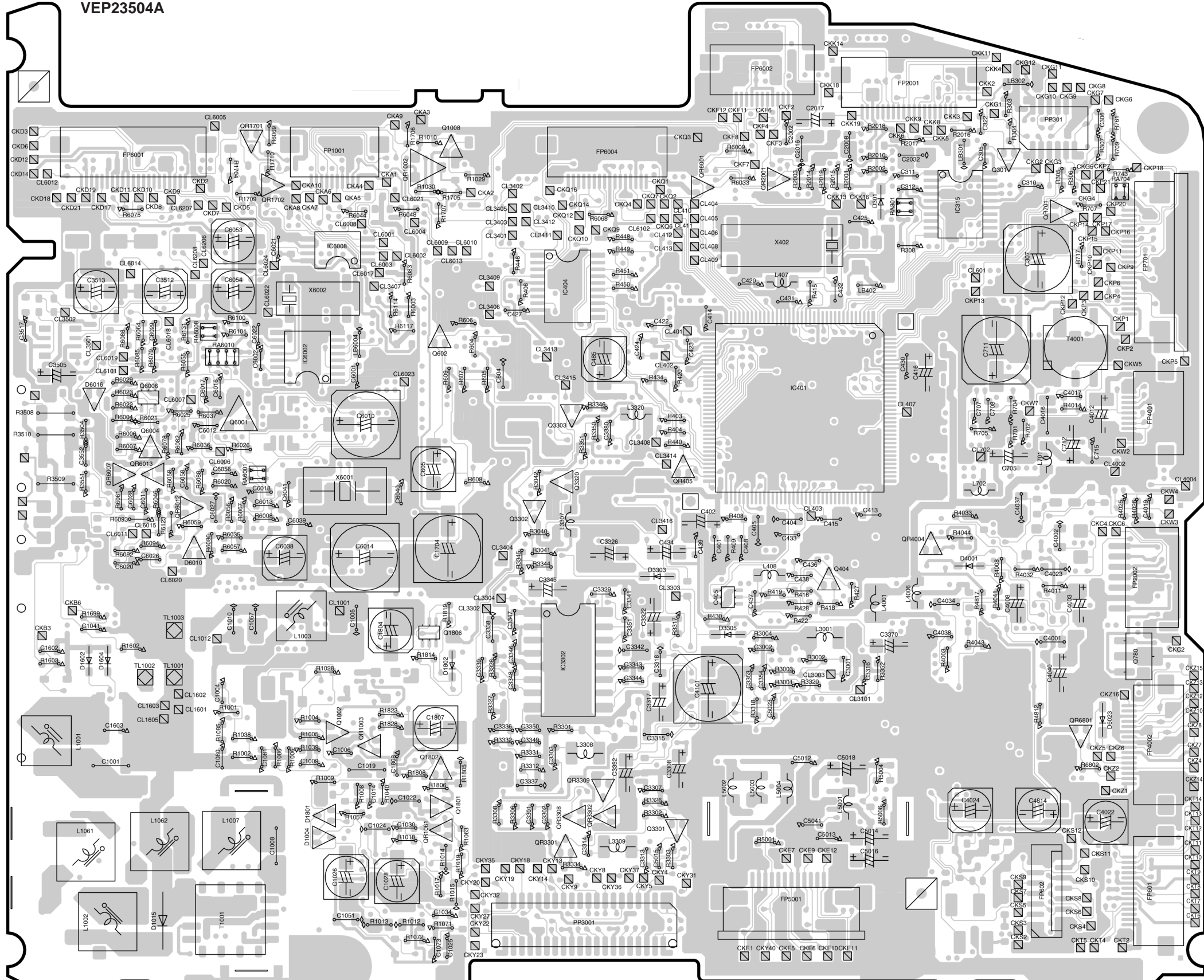
E

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C

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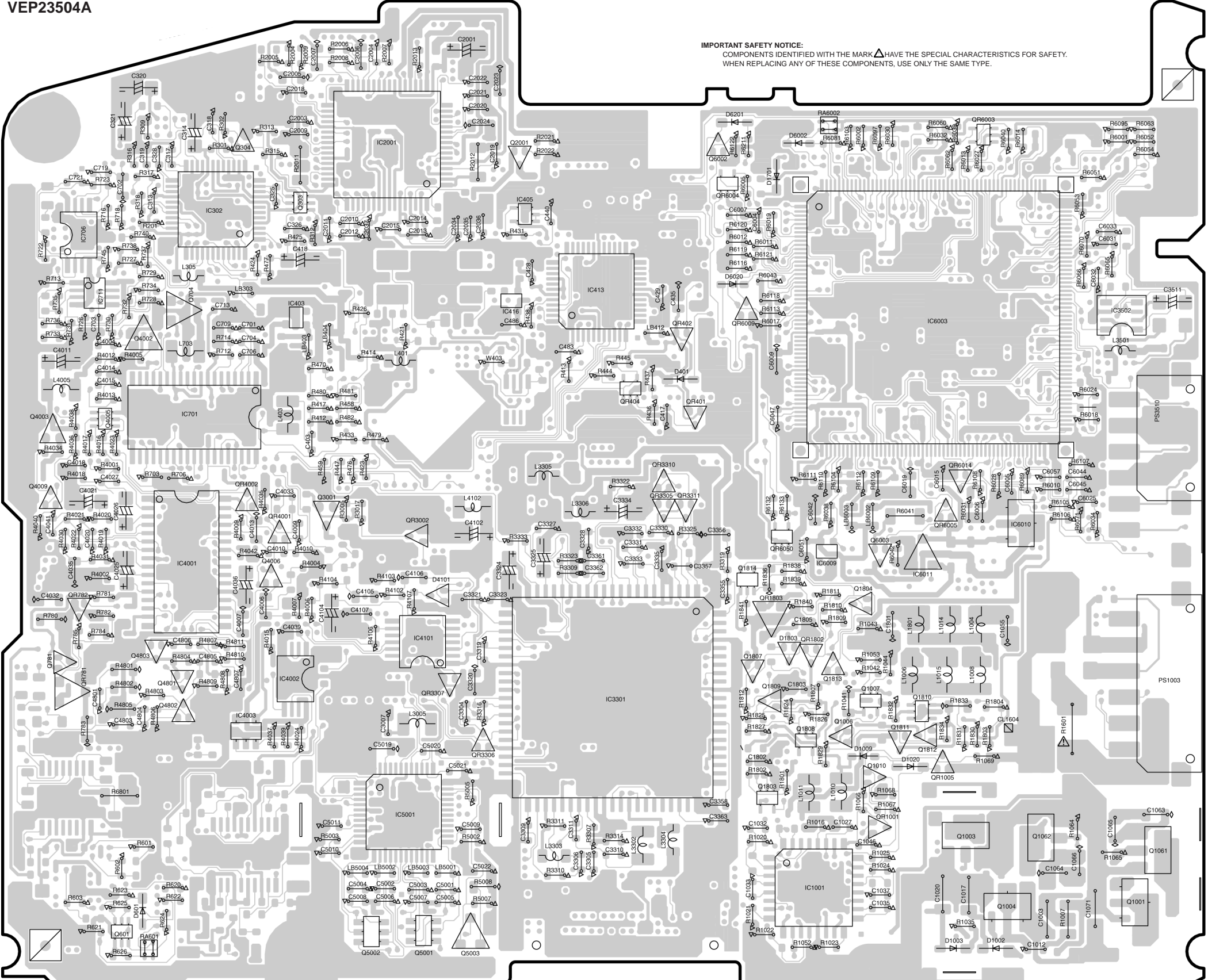
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NOTE: MULTILAYER C.B.A.
 THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

(COMPONENT SIDE)

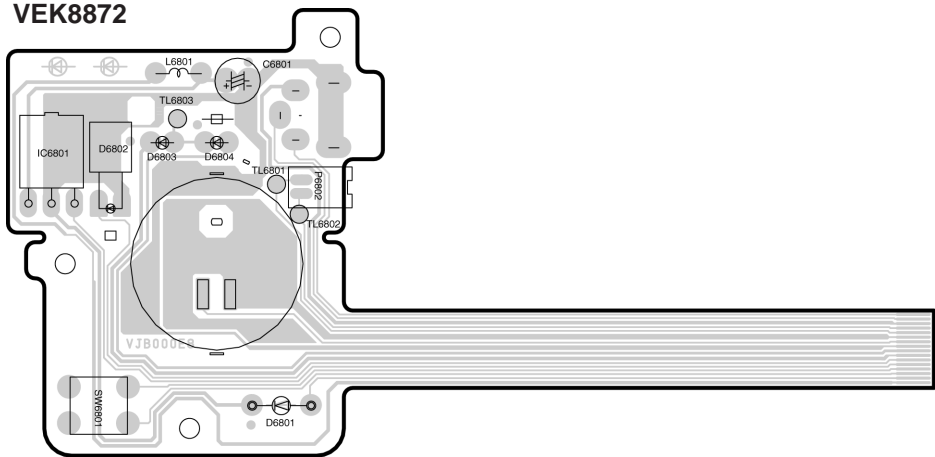
IMPORTANT SAFETY NOTICE:
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(FOIL SIDE)

VEK8872



B

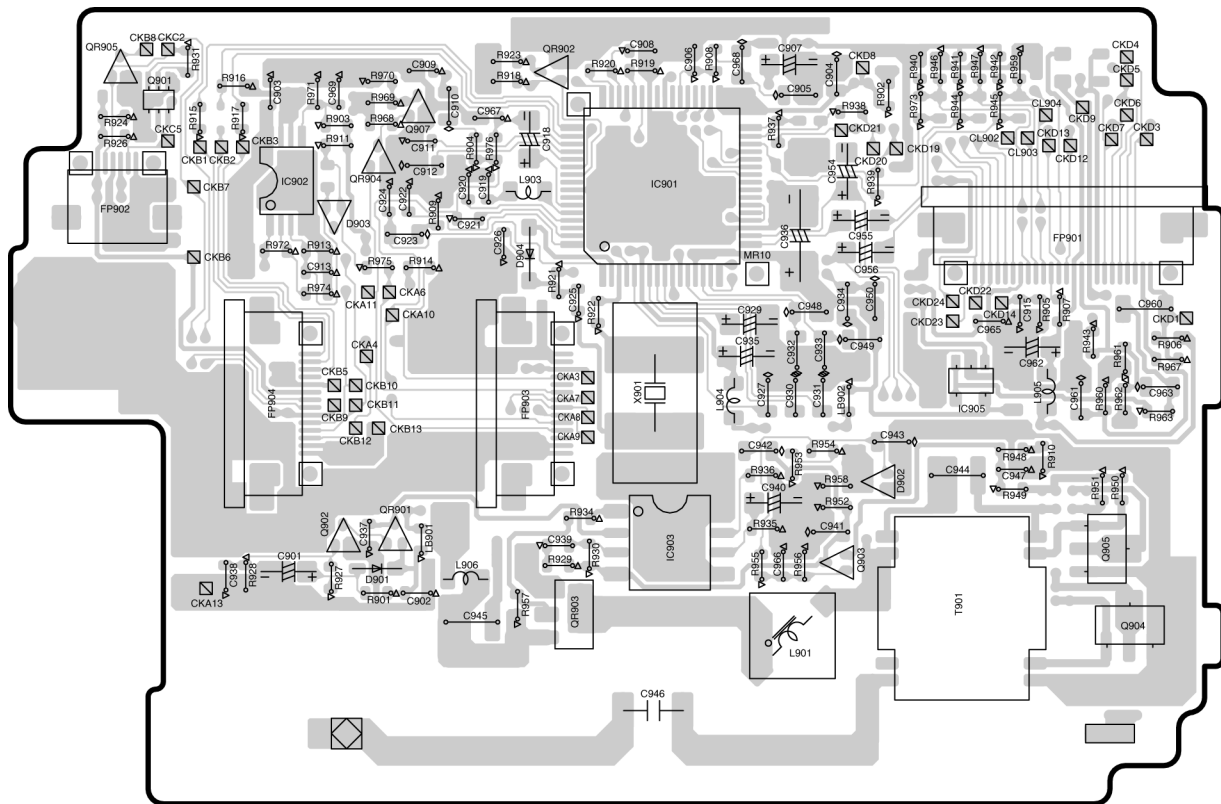
A

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VEP26236A



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.

G

F

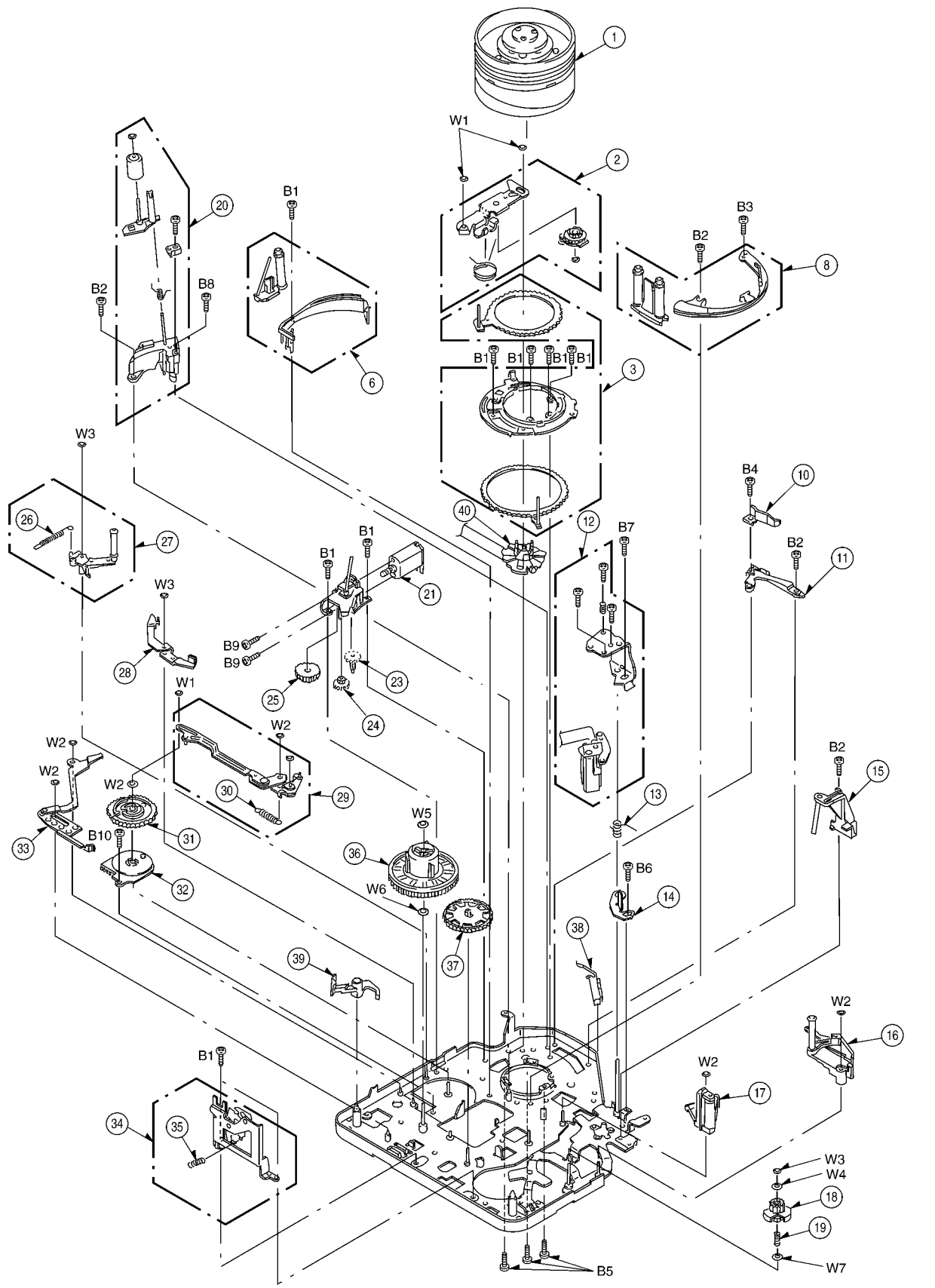
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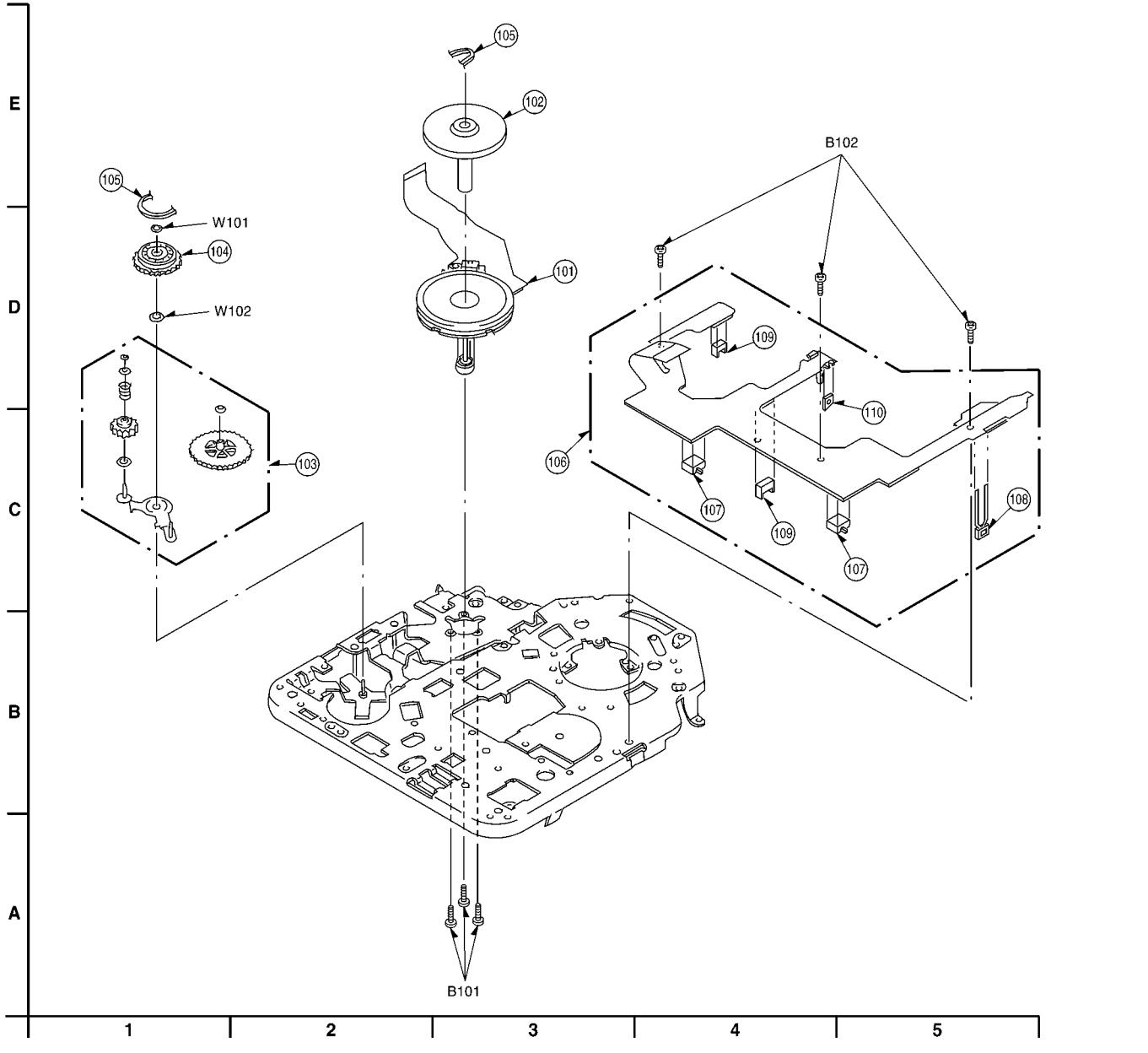
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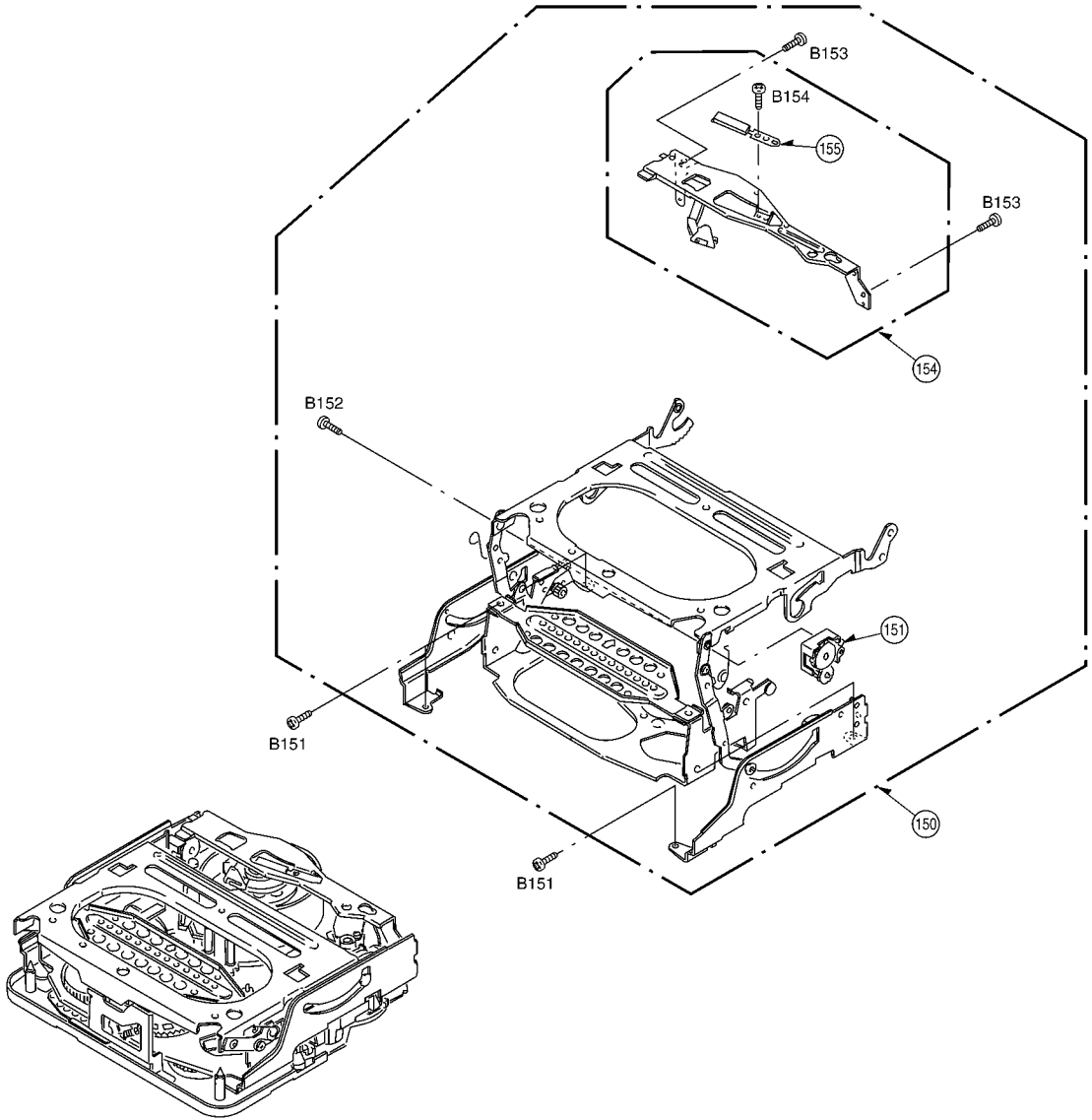
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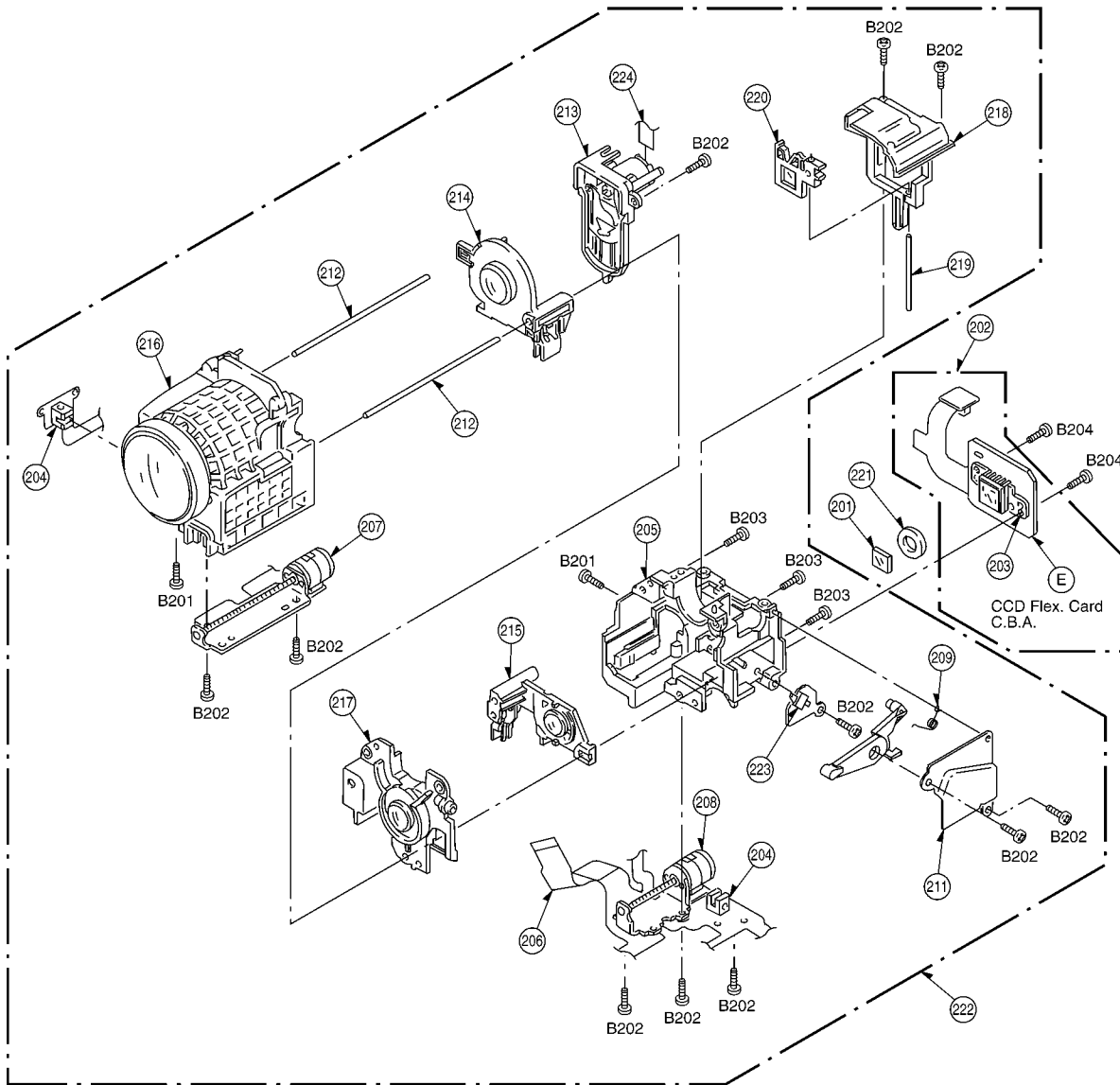
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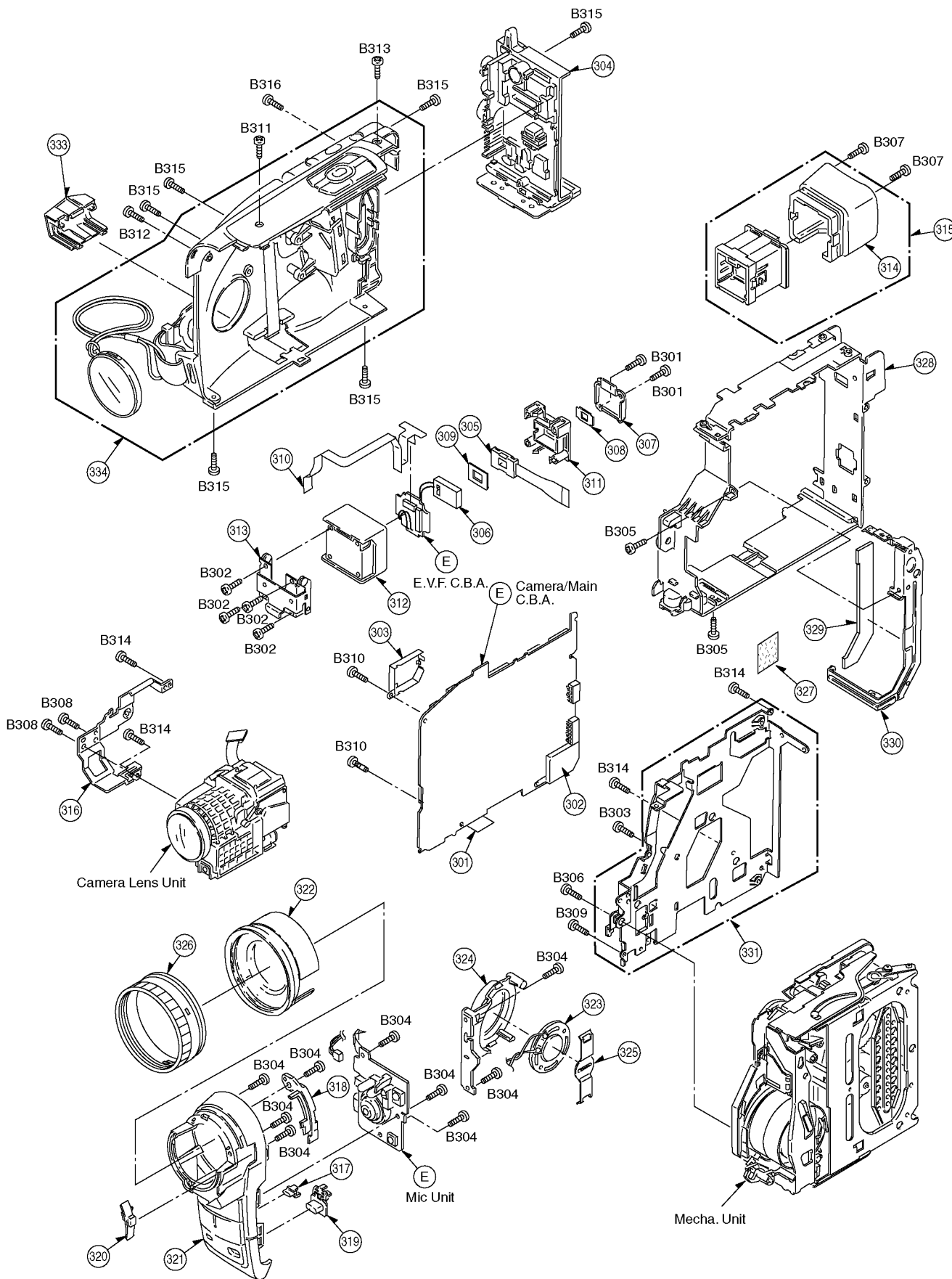
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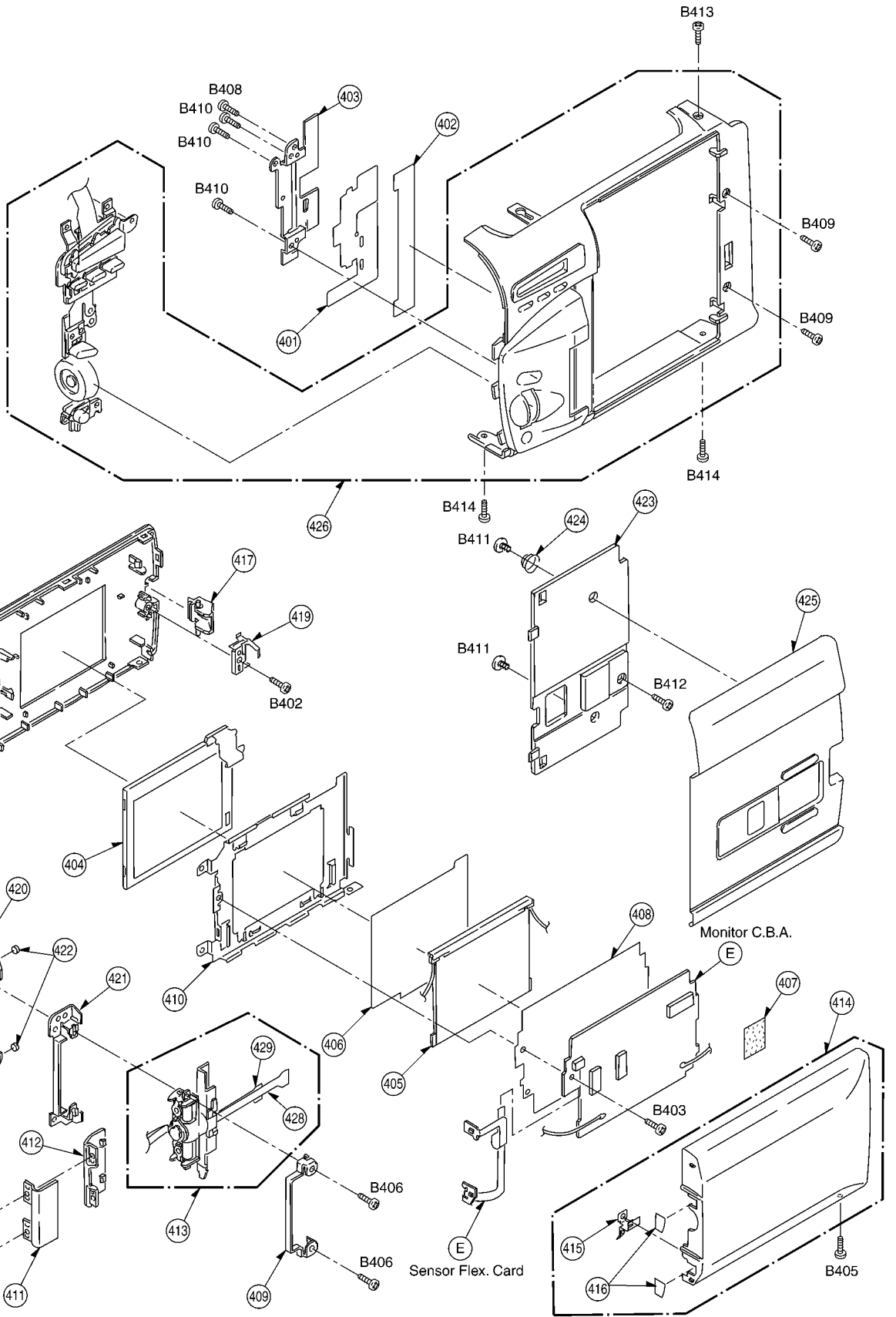
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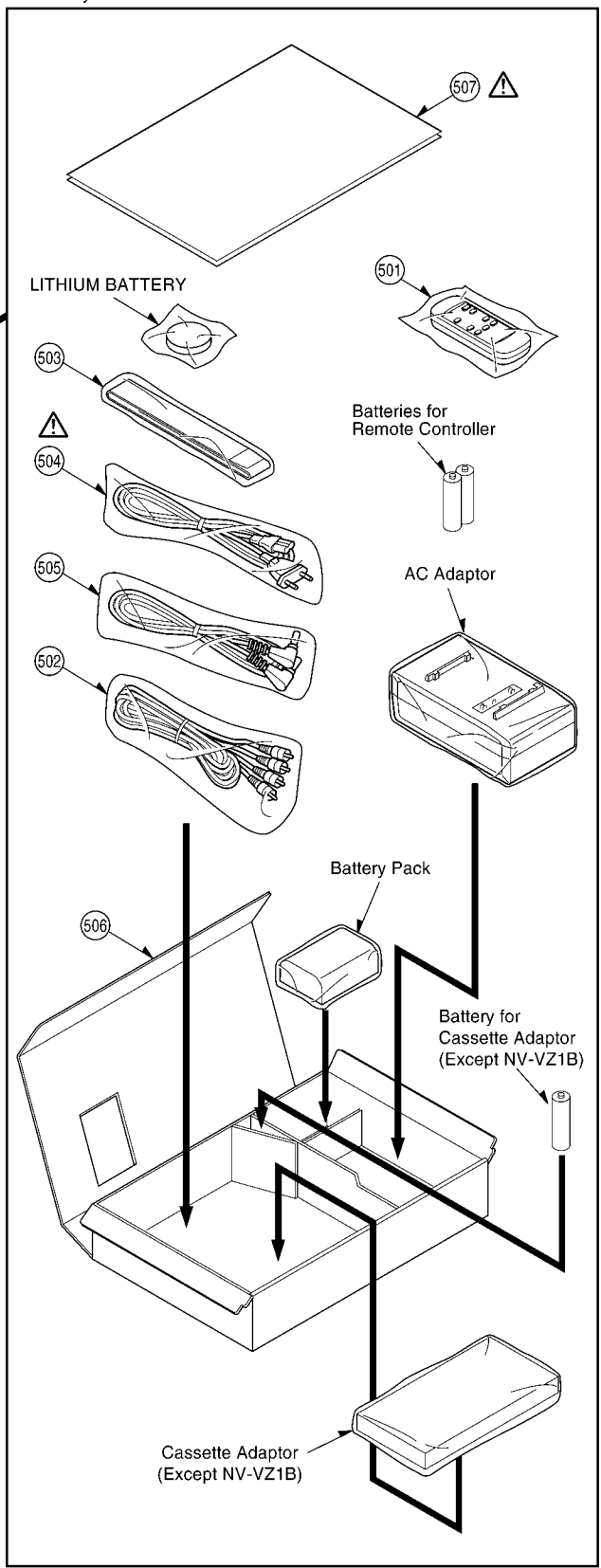
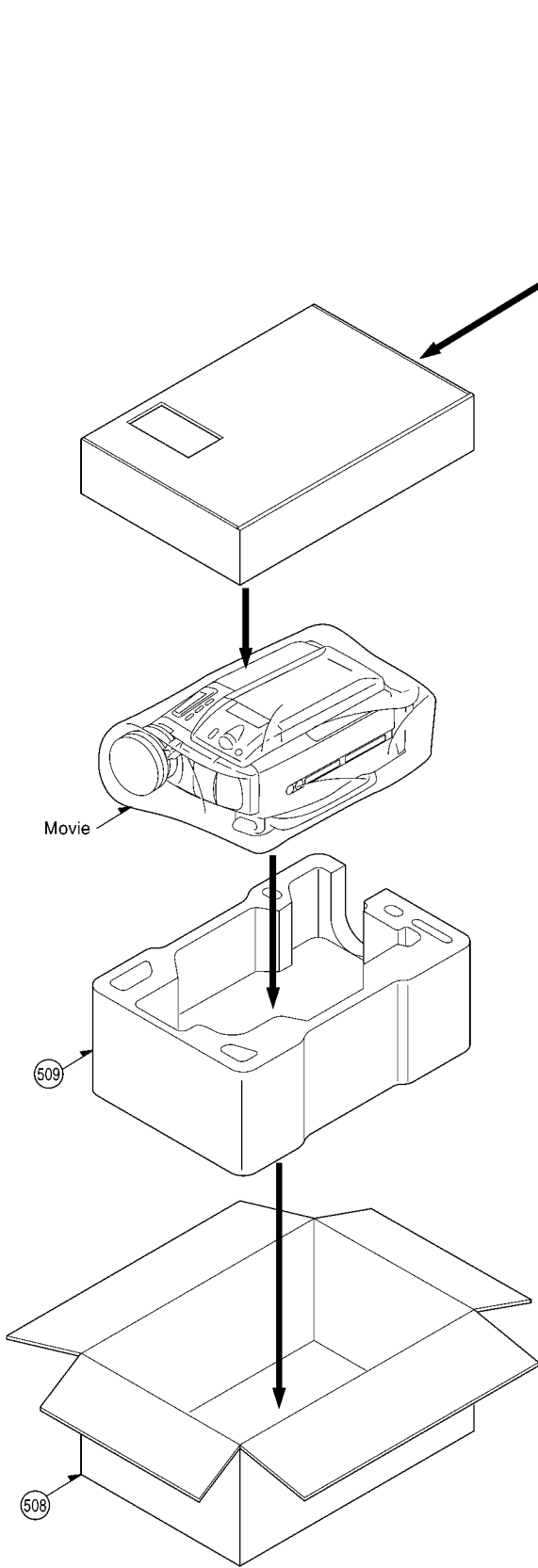
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Accessory Unit



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