

Issued in Nov. 1996

PARTS CATALOG

ACCESSORIES FOR EFP/DIGI

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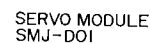
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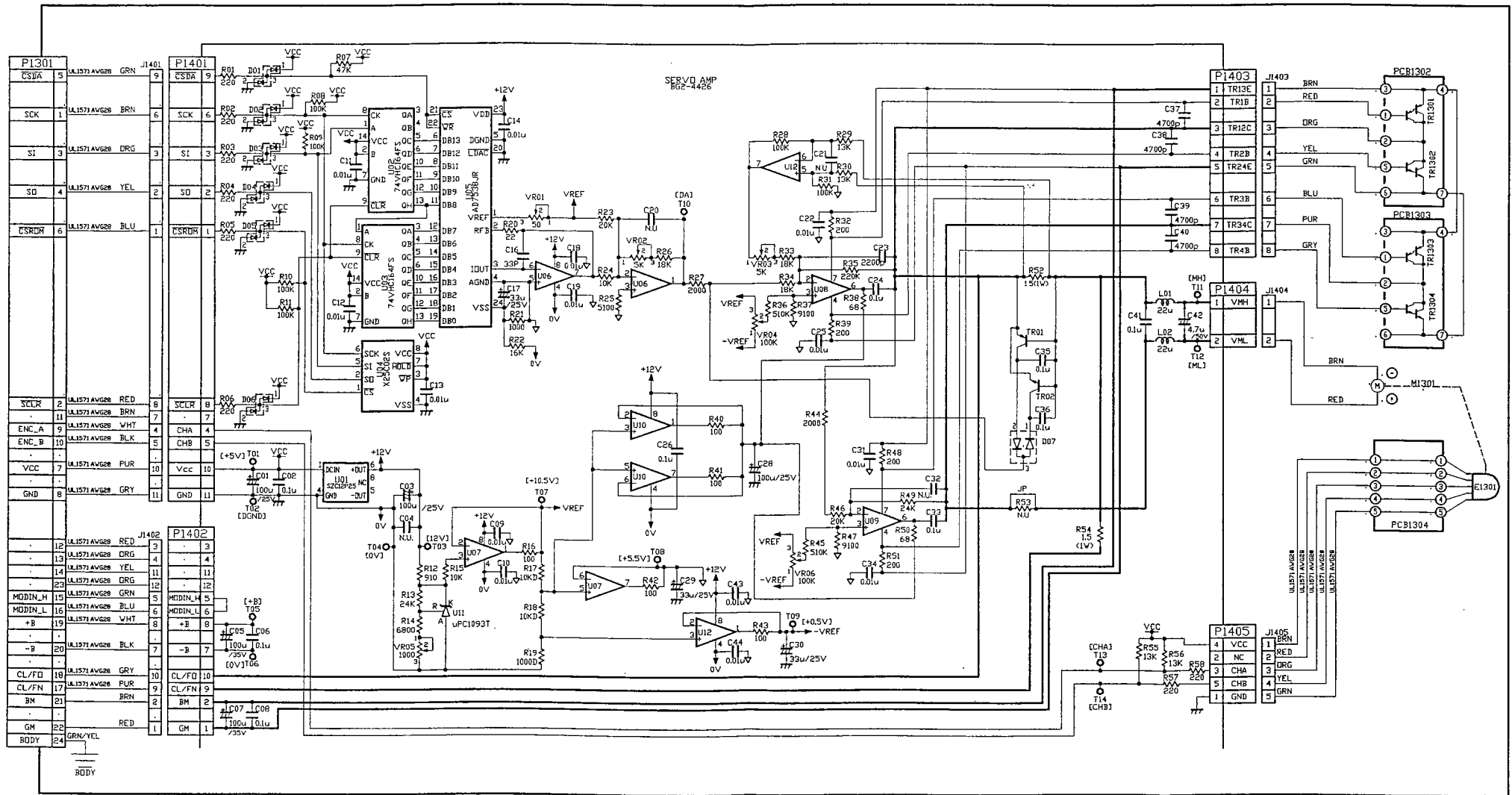
PARTS CATALOG
SERVO MODULE

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SERVO MODULE UNIT (SMJ-D01) CIRCUIT DIAGRAM



Symbol	Parts No.	Dimension	Description
U01	WA4-6288-000	000	DC-DC Converter (TDK SZC12P25)
U02	WA3-8467-000	000	Shift Resistor (TOSHIBA TC74VHC164FS)
U03	WA3-8467-000	000	Shift Resistor (TOSHIBA TC74VHC164FS)
U04	WA3-8387-000	000	Eeprom (ZAIKO X25C02SI)
U05	WA4-6516-000	000	D/A Converter (ANALOG DEVICES AD7538JR)
U06	WA4-6517-000	000	OP Amp (ANALOG DEVICES OP295GS)
U07	WA4-6517-000	000	OP Amp (ANALOG DEVICES OP295GS)
U08	WA4-6442-000	000	OP Amp (NEC μ PC151G2)
U09	WA4-6442-000	000	OP Amp (NEC μ PC151G2)
U10	WA4-5182-000	000	OP Amp (TOSHIBA TA75557F)
U11	WA4-5385-000	000	Regulator (NEC μ PC1093T)
U12	WA4-6517-000	000	OP Amp (ANALOG DEVICES OP295GS)
C01	VC8-2780-107	000	AL Electrolytic Capacitor (NICHICON UUR1E100MBR)
C02	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C03	VC8-2780-107	000	AL Electrolytic Capacitor (NICHICON UUR1E100MBR)
C04	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C05	VC8-3650-107	000	AL Electrolytic Capacitor (NICHICON UUR1V101MNT)
C06	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C07	VC8-3650-107	000	AL Electrolytic Capacitor (NICHICON UUR1V101MNT)
C08	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C09	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C10	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C11	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C12	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C13	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C14	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C15	Not Used		
C16	VC7-0630-330	000	Ceramic Capacitor (MURATA GRM40F330K50)
C17	VC7-7810-336	000	AL Electrolytic Capacitor (NICHICON UWX1E330MCR1)
C18	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C19	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C20	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C21	Not Used		
C22	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C23	VC5-8040-222	000	Ceramic Capacitor (MURATA GRM40F222Z50)

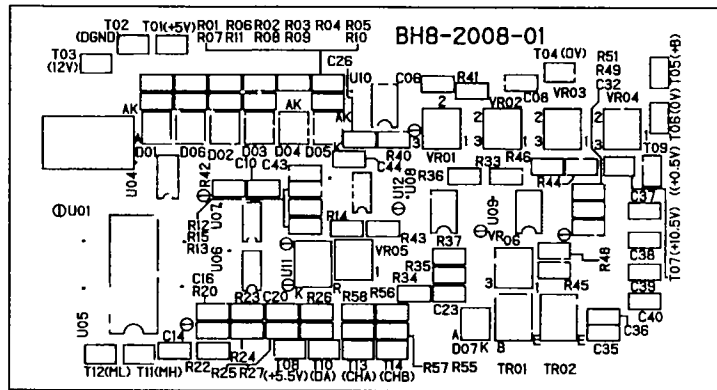
Symbol	Parts No.	Dimension	Description
C24	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C25	VC5-8040-222	000	Ceramic Capacitor (MURATA GRM40F222Z50)
C26	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C27	Not Used		
C28	VC8-2780-107	000	AL Electrolytic Capacitor (NICHICON UUR1E100MBR)
C29	VC7-7810-336	000	AL Electrolytic Capacitor (NICHICON UWX1E330MCR1)
C30	VC7-7810-336	000	AL Electrolytic Capacitor (NICHICON UWX1E330MCR1)
C31	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C32	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C33	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C34	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C35	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C36	VC7-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C37	VC7-8040-472	000	Ceramic Capacitor (MURATA GRM40F472Z50)
C38	VC5-8040-472	000	Ceramic Capacitor (MURATA GRM40F472Z50)
C39	VC5-8040-472	000	Ceramic Capacitor (MURATA GRM40F472Z50)
C40	VC5-8040-472	000	Ceramic Capacitor (MURATA GRM40F472Z50)
C41	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C42	VC7-4080-475	000	AL Electrolytic Capacitor (NICHICON UWP1H4R7MCR)
C43	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C44	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
D01	WA1-1034-000	000	Diode (HITACHI HSM107S)
D02	WA1-1034-000	000	Diode (HITACHI HSM107S)
D03	WA1-1034-000	000	Diode (HITACHI HSM107S)
D04	WA1-1034-000	000	Diode (HITACHI HSM107S)
D05	WA1-1034-000	000	Diode (HITACHI HSM107S)
D06	WA1-1034-000	000	Diode (HITACHI HSM107S)
D07	WA1-0442-000	000	Diode (NEC 1SS123)
P1401	VS1-0640-011	000	Pin Header (MOLEX 53014-1110)
P1402	VS1-0640-012	000	Pin Header (MOLEX 53014-1210)
P1403	VS1-0837-008	000	Pin Header (MOLEX 53014-0810)
P1404	VS1-0640-002	000	Pin Header (MOLEX 53014-0210)
P1405	VS1-0640-005	000	Pin Header (MOLEX 53014-0510)

Symbol	Parts No.	Dimension	Description
L01	BH2-4097-000	000	Choke Coil (TDK TSL0807-220K1R5)
L02	BH2-4097-000	000	Choke Coil (TDK TSL0807-220K1R5)
R01	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R02	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R03	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R04	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R05	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R06	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R07	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R08	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R09	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R10	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R11	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R12	VR7-2610-911	000	Tip Resistor (TAMA CRG10G911J)
R13	VR7-2610-243	000	Tip Resistor (TAMA CRG10G243J)
R14	VR7-2610-682	000	Tip Resistor (TAMA CRG10G682J)
R15	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R16	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R17	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R18	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R19	VR7-3040-102	000	Tip Resistor (SSM RR1220P-102-D)
R20	VR7-2610-220	000	Tip Resistor (TAMA CRG10G220J)
R21	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R22	VR7-2610-163	000	Tip Resistor (TAMA CRG10G163J)
R23	VR7-2610-203	000	Tip Resistor (TAMA CRG10G203J)
R24	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R25	VR7-2610-512	000	Tip Resistor (TAMA CRG10G512J)
R26	VR7-2610-183	000	Tip Resistor (TAMA CRG10G183J)
R27	VR7-2610-202	000	Tip Resistor (TAMA CRG10G202J)
R28	VR7-3040-104	000	Tip Resistor (TAMA CRG10G104J)
R29	VR7-2610-133	000	Tip Resistor (TAMA CRG10G133J)
R30	VR7-2610-133	000	Tip Resistor (TAMA CRG10G133J)
R31	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R32	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R33	VR7-2610-183	000	Tip Resistor (TAMA CRG10G183J)

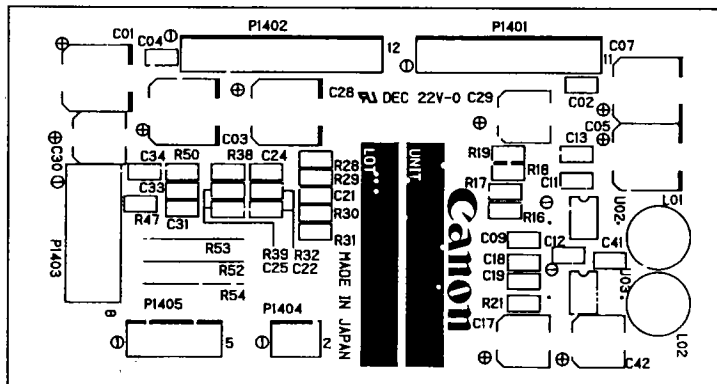
Symbol	Parts No.	Dimension	Description
R34	VR7-2610-183	000	Tip Resistor (TAMA CRG10G183J)
R35	VR7-2610-224	000	Tip Resistor (TAMA CRG10G224J)
R36	VR7-2610-514	000	Tip Resistor (TAMA CRG10G514J)
R37	VR7-2610-912	000	Tip Resistor (TAMA CRG10G912J)
R38	VR7-2610-680	000	Tip Resistor (TAMA CRG10G680J)
R39	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R40	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R41	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R42	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R43	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R44	VR7-2610-202	000	Tip Resistor (TAMA CRG10G202J)
R45	VR7-2610-514	000	Tip Resistor (TAMA CRG10G514J)
R46	VR7-2610-203	000	Tip Resistor (TAMA CRG10G203J)
R47	VR7-2610-912	000	Tip Resistor (TAMA CRG10G912J)
R48	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R49	VR7-2610-243	000	Tip Resistor (TAMA CRG10G243J)
R50	VR7-2610-680	000	Tip Resistor (TAMA CRG10G680J)
R51	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R52	VR5-1280-159	000	Wire Wound Resistor (IWAKI CS1P1.5 Ω J)
R53	Not Used		
R54	VR9-1280-159	000	Wire Wound Resistor (IWAKI CS1P1.5 Ω J)
R55	VR7-2610-133	000	Tip Resistor (TAMA CRG10G133J)
R56	VR7-2610-133	000	Tip Resistor (TAMA CRG10G133J)
R57	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
R58	VR7-2610-221	000	Tip Resistor (TAMA CRG10G221J)
T01	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T02	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T03	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T04	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T05	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T06	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T07	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T08	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T09	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T10	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)

Symbol	Parts No.	Dimension	Description
T11	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T12	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T13	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T14	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
TR01	BH0-1164-000	000	Transistor (TOSHIBA 2SA1204-Y)
TR02	WA2-5477-000	000	Transistor (TOSHIBA 2SC2884-Y)
TR1301	WA2-0096-000	000	Transistor (HITACHI 2SB727K)
TR1302	WA2-0222-000	000	Transistor (HITACHI 2SB768K)
TR1303	WA2-0096-000	000	Transistor (HITACHI 2SB727K)
TR1304	WA2-0222-000	000	Transistor (HITACHI 2SB768K)
(TR1301-4)	BH0-9033-000	000	Sheet (HUJIKURA 2067B-5051)
(TR1301-4)	BH0-9009-000	000	Washer (HITACHIO YC40B)
VR01	VR7-3770-500	000	Trimmer (TOCOS G3A-50 Ω)
VR02	VR7-3770-502	000	Trimmer (TOCOS G3A-5k Ω)
VR03	VR7-3770-502	000	Trimmer (TOCOS G3A-5k Ω)
VR04	VR7-3770-104	000	Trimmer (TOCOS G3A-100k Ω)
VR05	VR7-3770-102	000	Trimmer (TOCOS G3A-1k Ω)
VR06	VR7-3770-104	000	Trimmer (TOCOS G3A-100k Ω)
M1301	BH2-0630-000	000	Dc Motor (MINI MOTOR 3557K024CR)
E1301	WP2-5072-000	000	Rotary Encoder (YHP HEDM-5500 J13)
J1401	VS3-0198-011	000	Connector Housing (MOLEX 51004-1100)
J1402	VS3-0198-012	000	Connector Housing (MOLEX 51004-1200)
J1403	VS3-0198-008	000	Connector Housing (MOLEX 51004-0800)
J1404	VS3-0198-002	000	Connector Housing (MOLEX 51004-0200)
J1405	VS3-0198-005	000	Connector Housing (MOLEX 51004-0500)
(J1401-5)	WT1-0345-000	000	Terminal (MOLEX 50011-0100)
P1301	BH3-4798-000	000	Connector (DDK 57-10240)
PCB1301	BG2-4426-000	000	Servo AMP P.C.B. Ass'y
PCB1302	BH8-1107-000	000	P.C.B. (Wo/Transistor)

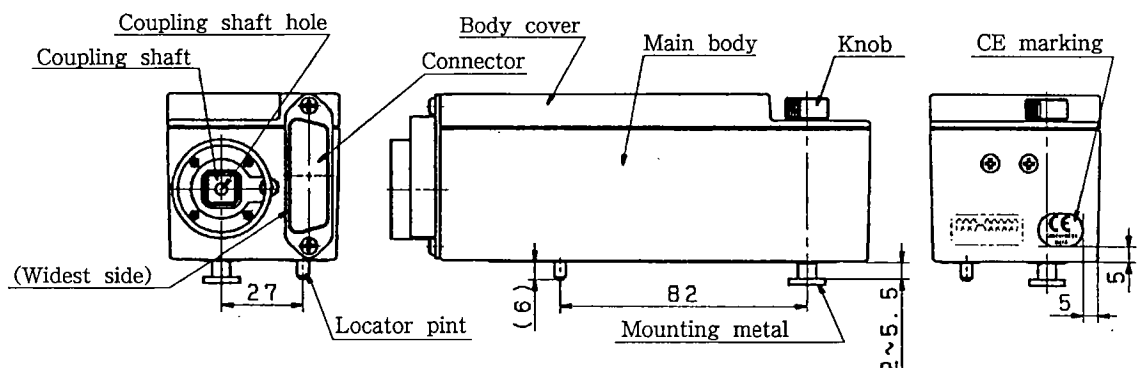
Symbol	Parts No.	Dimension	Description
PCB1303	BH8-1107-000	000	P. C. B. (Wo/Transistor)
PCB1304	BH8-2009-000	000	P. C. B.
T	X62-6705-000	000	Earth Lug

PARTS LAYOUT
(PARTS FACE)

PARTS LAYOUT (SOLDERED FACE)



項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
[Mechanical performance]	
※Applicable model	This standard applies to a servo module SMJ - D01 that delivers its performance when used with the DIGI SUPER series of lenses.
1. COUPLING	
1 - 1. Coupling Shaft	The coupling shaft must smoothly rotate both clockwise and counterclockwise. The coupling shaft must not jerk or grate.
1 - 2. Coupling Shaft Hole	A hole of 4 mm in diameter and 7 mm long must be provided at the center of the coupling shaft.
2. MOUNTING	
2 - 1. Lens Dody Mounting Metal	By turning the knob, the distance of the mounting metal from the body must be able to be smoothly changed from 2 to 5.5mm.
2 - 2. Locator Pin	A locator pin for the SUPER series of lenses must be provided at a predetermined position.
3. CONNECTOR	
3 - 1. Mounting	The connector must be mounted with its widest edge directed toward the coupling shaft.
3 - 2. Continuity	There must be continuity between the connector, body, and body cover.
4. APPEARANCE, COATING	
4 - 1. Appearance	The appearance standard of the television camera lens must be met.
4 - 2. Coating Color	Body, body cover : Art gray LOF1 (2.5Y7.5/0.7) B (according to color chart)
5. PRODUCT CONFIGURATION	(For an S - order, the S - order product configuration must be applied, and this configuration must be ignored.) Servo module main body : 1
6. CE. MARKING	The BC2 - 4843 - 1 CE marking must be appended.



Parts Number	Q'ty	Description	Page	Remarks
BA1-3393-000 000	1	CAP	1-1	
BC1-0285-020 000	1	GEAR,MOTOR	1-1	
BC1-0288-020 000	2	SHAFT	1-1	
BC1-0289-000 000	1	WASHER	1-1	
BC1-0290-000 000	1	JOINT	1-1	
BC1-7488-000 000	1	ORDER PLATE	1-1	
BC1-8762-020 000	1	GEAR (Z=135)	1-1	
BC1-8763-000 000	1	HOLDER, MOTOR	1-1	
BC1-8764-020 000	1	HOLDER	1-1	
BC2-4774-020 000	1	COVER	1-1	
BC2-4775-020 000	1	COVER	1-1	
BC2-4776-000 000	1	STOPPER	1-1	
BC2-4777-000 000	4	HOLDER	1-1	
BC2-4778-000 000	1	SHAFT	1-1	
BC2-4779-000 000	1	SHAFT	1-1	
BC2-4780-000 000	1	COUPLING	1-1	
BC2-4781-000 000	2	INSULATIR	1-1	
BC2-4782-000 000	1	INSULATOR	1-1	
BC2-4783-000 000	1	INSULATOR	1-1	
BC2-4784-020 000	1	HOLDER	1-1	
BC2-4785-000 000	1	NAME PLATE	1-1	
BC2-4804-000 000	1	GUIDE	1-1	
BC2-4843-001 000	1	LABEL	1-1	
BG2-4426-000 000	1	SERVO AMP PCB ASS'Y	1-1	
BH0-1164-000 000	1	TRANSISTOR	1-1	
BH0-9009-000 000	4	WASHER	1-1	
BH0-9033-000 000	4	SHEET	1-1	
BH2-0630-000 000	1	MOTOR	1-1	
BH2-4097-000 000	2	CHOKE COIL	1-1	
BH3-4798-000 000	1	CONNECTOR	1-1	

Parts Number	Q'ty	Description	Page	Remarks
BH4-1249-000 001	1	CABLE (BRN)	1-1	
BH4-1249-000 002	1	CABLE (ORG)	1-1	
BH4-1249-000 003	1	CABLE (RED)	1-1	
BH4-1249-000 004	1	CABLE (YEL)	1-1	
BH4-1249-000 005	1	CABLE (GRN)	1-1	
BH4-1249-000 006	1	CABLE (BLU)	1-1	
BH4-1249-000 007	1	CABLE (PUR)	1-1	
BH4-1249-000 008	1	CABLE (GRY)	1-1	
BH4-1249-000 009	1	CABLE (WHT)	1-1	
BH4-1249-000 010	1	CABLE (BLK)	1-1	
BH8-1107-000 000	2	PCB	1-1	
BH8-2009-000 000	1	PCB	1-1	
KE1-2038-001 000	1	WIRE, LEAD (BROWN)	1-1	
KE1-2038-002 000	1	WIRE, LEAD (RED)	1-1	
KE1-2038-003 000	1	WIRE, LEAD (ORANGE)	1-1	
KE1-2038-004 000	1	WIRE, LEAD (YELLOW)	1-1	
KE1-2038-005 000	1	WIRE, LEAD (GRN)	1-1	
KE1-2038-006 000	1	WIRE, LEAD (BLUE)	1-1	
KE1-2038-007 000	1	WIRE, LEAD (PURPLE)	1-1	
KE1-2038-008 000	1	WIRE, LEAD (GRAY)	1-1	
KE1-2038-009 000	1	WIRE, LEAD (WHITE)	1-1	
KE1-2038-010 000	1	WIRE, LEAD (BLK)	1-1	
VA7-2610-512 000	1	RESISTOR	1-1	
VC5-8040-103 000	1	CAPCITOR	1-1	
VC5-8040-104 000	9	CAPACITOR	1-1	
VC5-8040-222 000	2	CAPACITOR	1-1	
VC5-8040-472 000	4	CAPACITOR	1-1	
VC7-0630-330 000	1	CAPACITOR	1-1	
VC7-4080-475 000	1	CAPACITOR	1-1	
VC7-7810-336 000	3	CAPACITOR	1-1	

Parts Number	Q'ty	Description	Page	Remarks
VC8-2780-107 000	3	CAPACITOR	1-1	
VC8-3650-107 000	2	CAPACITOR	1-1	
VR5-1280-159 000	2	RESISTOR	1-1	
VR7-2610-101 000	5	RESISTOR	1-1	
VR7-2610-102 000	1	RESISTOR	1-1	
VR7-2610-103 000	2	RESISTOR	1-1	
VR7-2610-104 000	6	RESISTOR	1-1	
VR7-2610-133 000	2	RESISTOR	1-1	
VR7-2610-163 000	1	RESISTOR	1-1	
VR7-2610-183 000	3	RESISTOR	1-1	
VR7-2610-201 000	4	RESISTOR	1-1	
VR7-2610-202 000	2	RESISTOR	1-1	
VR7-2610-203 000	5	RESISTOR	1-1	
VR7-2610-220 000	1	RESISTOR	1-1	
VR7-2610-221 000	8	RESISTOR	1-1	
VR7-2610-224 000	1	RESISTOR	1-1	
VR7-2610-243 000	2	RESISTOR	1-1	
VR7-2610-473 000	1	RESISTOR	1-1	
VR7-2610-514 000	2	RESISTOR	1-1	
VR7-2610-680 000	2	RESISTOR	1-1	
VR7-2610-682 000	1	RESISTOR	1-1	
VR7-2610-911 000	1	RESISTOR	1-1	
VR7-2610-912 000	2	RESISTOR	1-1	
VR7-3040-102 000	1	RESISTOR	1-1	
VR7-3040-103 000	2	RESISTOR	1-1	
VR7-3770-102 000	1	RESISTOR	1-1	
VR7-3770-104 000	2	RESISTOR	1-1	
VR7-3770-500 000	1	RESISTOR	1-1	
VR7-3770-502 000	2	RESISTOR	1-1	
VS1-0640-002 000	1	CONNECTOR	1-1	
VS1-0640-005 000	1	CONNECTOR	1-1	
VS1-0640-011 000	1	CONNECTOR	1-1	

Parts Number	Q'ty	Description	Page	Remarks
VS1-0640-012 000	1	CONNECTOR	1-1	
VS1-0837-008 000	1	CONNECTOR	1-1	
VS3-0198-002 000	1	HOUSING, SOCKET (2PIN)	1-1	
VS3-0198-005 000	1	HOUSING, SOCKET (5PIN)	1-1	
VS3-0198-011 000	1	HOUSING, SOCKET (11PIN)	1-1	
VS3-0198-012 000	1	HOUSING, SOCKET (12PIN)	1-1	
WA1-0422-000 000	1	DIODE	1-1	
WA1-1034-000 000	6	DIODE	1-1	
WA2-0096-000 000	2	TRANSISTOR	1-1	
WA2-0222-000 000	2	TRANSISTOR	1-1	
WA2-5477-000 000	1	TRANSISTOR	1-1	
WA3-8387-000 000	1	IC	1-1	
WA3-8467-000 000	2	IC	1-1	
WA4-5182-000 000	1	IC	1-1	
WA4-5385-000 000	1	IC	1-1	
WA4-6288-000 000	1	IC	1-1	
WA4-6442-000 000	2	IC	1-1	
WA4-6516-000 000	1	IC	1-1	
WA4-6517-000 000	3	IC	1-1	
WP2-5072-000 000	1	ROTARY ENCODER	1-1	
WT1-0345-000 000	38	TERMINAL	1-1	
WT1-5128-000 000	14	CHECK PIN	1-1	
XG3-3006-253 000	3	BALL BEARING	1-1	
XG3-6010-303 000	1	BALL BEARING	1-1	
X62-6705-000 000	1	LUG TERMINAL	1-1	

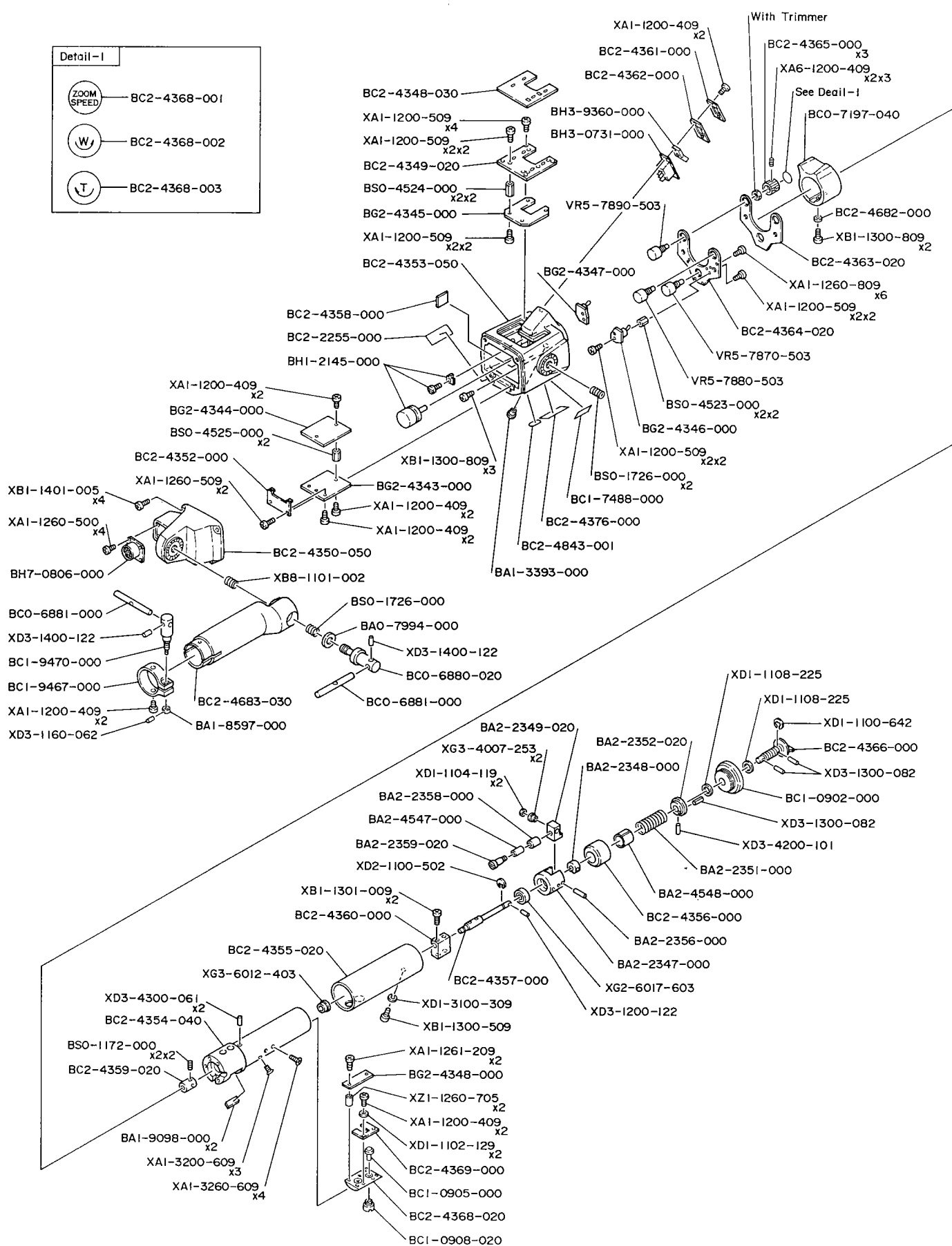
Issued in Nov. 1996

PARTS CATALOG

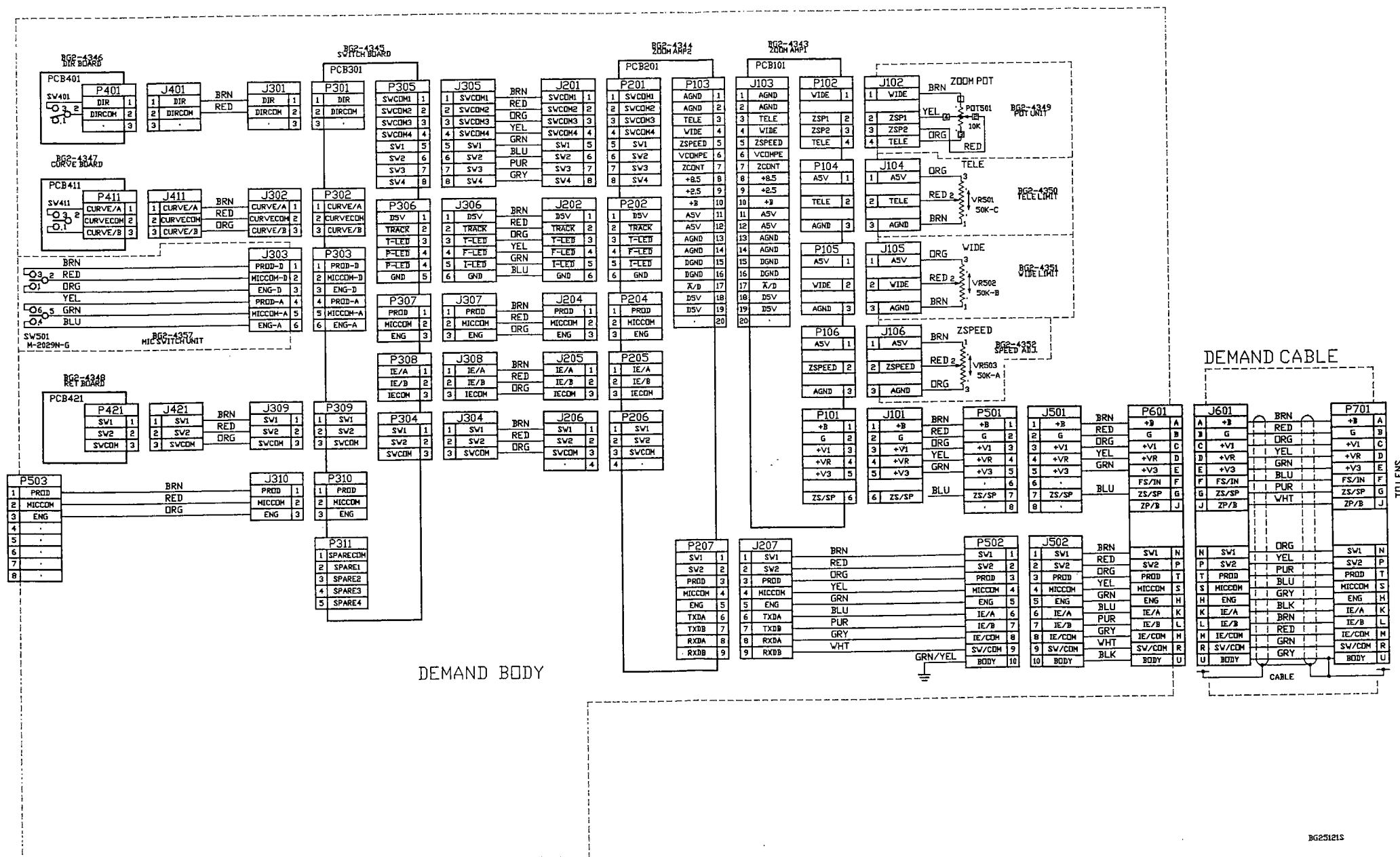
ZOOM DEMAND

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DEMAND BODY

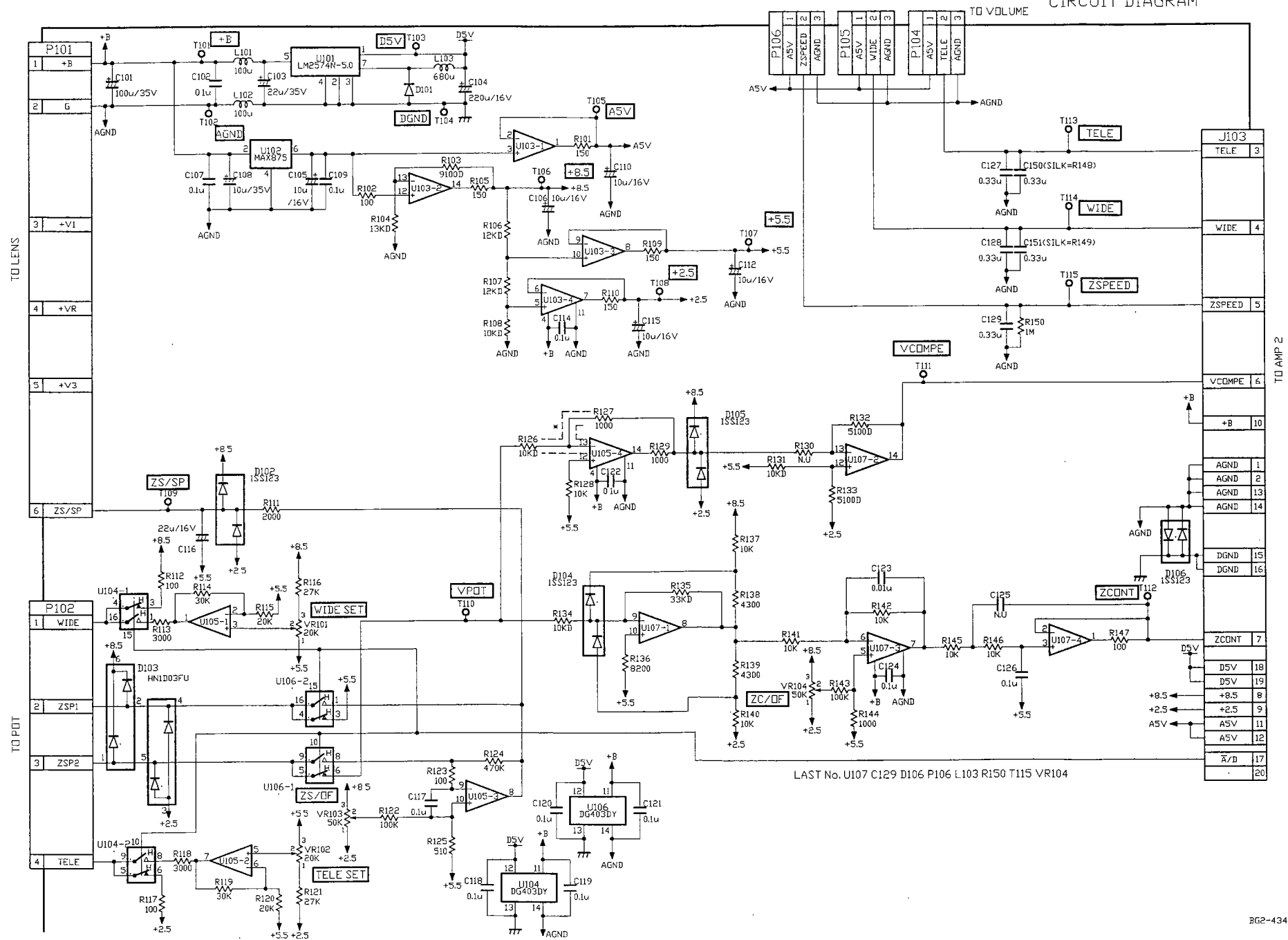


Symbol	Parts No.	Dimension	Description
PCB101	BG2-4343-000	000	Zoom Ampl P. C. B
PCB201	BG2-4344-000	000	Zoom Amp2 P. C. B
PCB301	BG2-4345-000	000	Switch Board Unit
PCB401	BG2-4346-000	000	Dia Board Unit
PCB411	BG2-4347-000	000	Corve Board Unit
PCB421	BG2-4348-000	000	Ret Board Unit
SW501	BH3-0731-000	000	Switch (NKK M-2029N-G)
	BH3-9360-000	000	Cap (NKK AT-448-W)
	(BG2-4357-000)	000	Mic Switch Unit W/Connector)
POT501	BH1-2145-000	000	Variable Resistor (SAKAE SFCP22A-4974)
	BG2-4349-000	000	Variable Resistor Unit (W/Connector)
VR501	VR5-7890-503	000	Variable Resistor (TOCOS RV12YN15SC50K Ω)
	BG2-4350-000	000	Variable Resistor Unit (W/Connector)
VR502	VR5-7880-503	000	Variable Resistor (TOCOS RV12YN15SB50K Ω)
	BG2-4351-000	000	Variable Resistor Unit (W/Connector)
VR503	VR5-7870-503	000	Variable Resistor (TOCOS RV12YN15SA50K Ω)
	BG2-4352-000	000	Variable Resistor Unit (W/Connector)
P101	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P102	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P103	VS1-6022-020	000	Connector (HRS FX6-20P-0.8SV1)
P104	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P105	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P106	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P201	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P202	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P204	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P205	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P206	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P207	VS1-1201-009	000	Pin Header (MOLEX 53047-0910)

Symbol	Parts No.	Dimension	Description
P301	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P302	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P304	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P305	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P306	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P307	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P308	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P309	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P310	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P311	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
P401	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P411	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P421	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P501	VS1-0245-008	000	Connector (MOLEX 51006-0800)
(P501)	WS3-5190-000	000	Contact (MOLEX 50012-8100)
P502	VS1-0245-010	000	Connector (MOLEX 51006-1000)
(P502)	WS3-5190-000	000	Contact (MOLEX 50012-8100)
P601	BH7-0806-000	000	Connector (BENDEX PT02E-14-18P)
P701	BH7-1221-000	000	Connector (BENDEX PT05A-14-18P)
J101	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)
(J101)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J102	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J102)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J103	VS1-5884-020	000	Receptacle (HRS FX6-20S-0.8SV)
J104	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J104)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J105	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J105)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J106	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J106)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J201	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J201)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J202	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)

Symbol	Parts No.	Dimension	Description
(J202)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J204	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J204)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J205	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J205)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J206	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J206)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J207	VS3-0320-009	000	Socket Housing (MOLEX 51021-0900)
(J207)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J301	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J301)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J302	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J302)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J303	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)
(J303)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J304	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J304)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J305	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J305)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J306	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)
(J306)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J307	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J307)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J308	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J308)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J309	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J309)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J401	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J401)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J411	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J411)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J421	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J421)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J501	VS3-0244-008	000	Connector (MOLEX 51005-0800)
(J501)	WS3-5191-000	000	Terminal (MOLEX 50013-8100)

Symbol	Parts No.	Dimension	Description
J502	VS3-0244-010	000	Connector (MOLEX 51005-1000)
(J502)	WS3-5191-000	000	Terminal (MOLEX 50013-8100)
J601	BH7-1222-000	000	Connector (BENDEX PT05A-14-18S)
CABLE	BH4-2792-000	000	Cable (HIRAKAWA 2464-SR-VSV-18x28AWG-7/0.13)

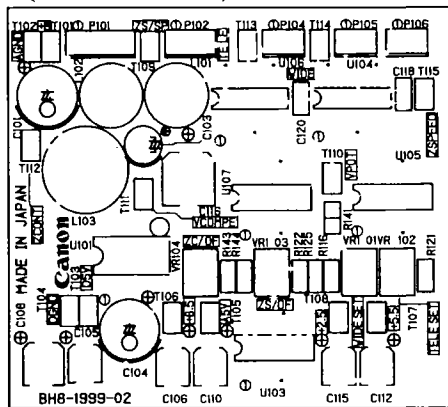
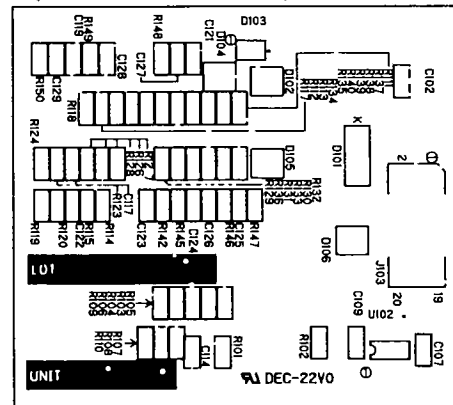
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CIRCUIT DIAGRAM

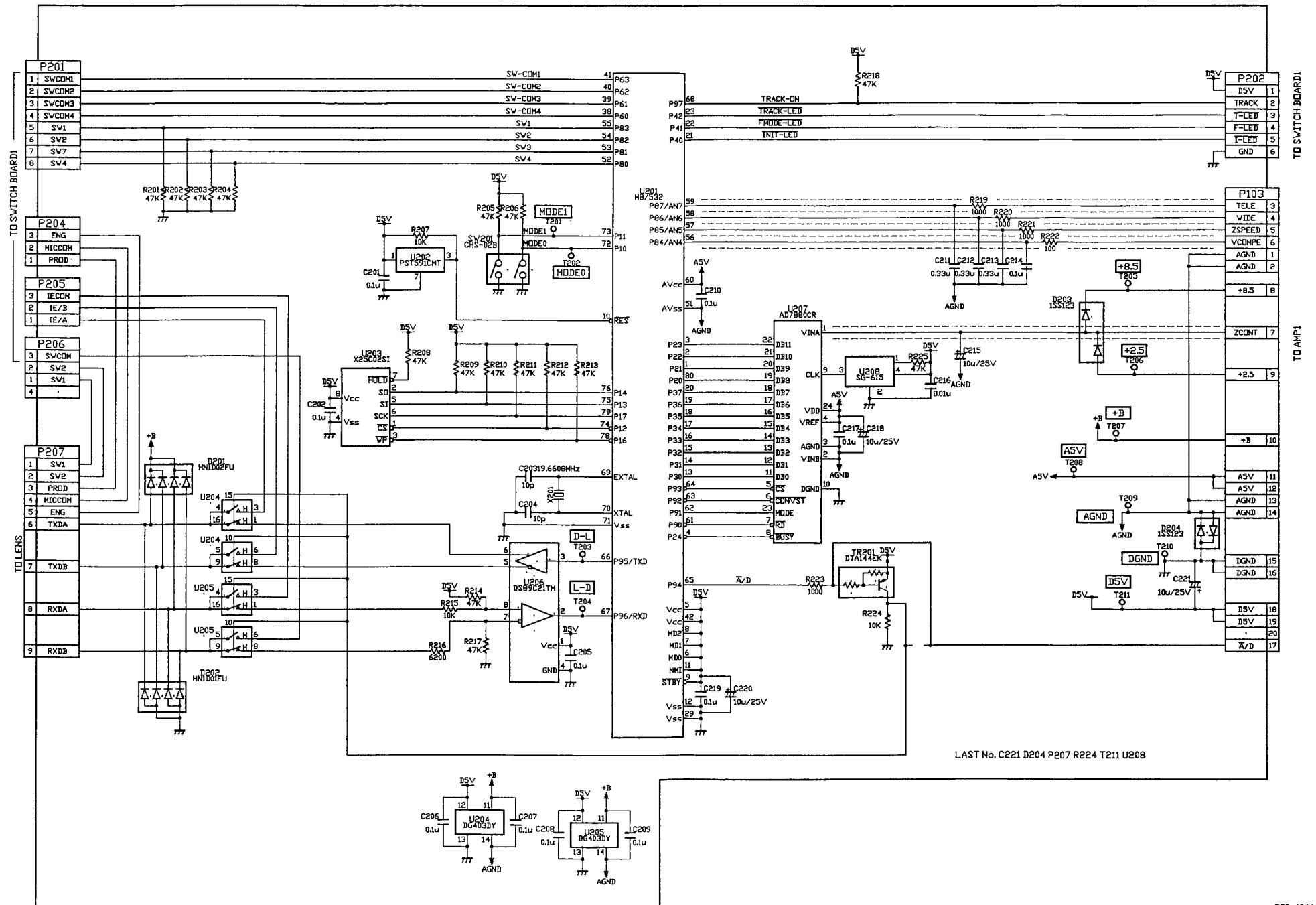
Symbol	Parts No.	Dimension	Description
U101	WA4-6399-000	000	Regulator IC (N.S LM2574N-5)
U102	WA4-6398-000	000	Regulator IC (MAXIM MAX875ACSA)
U103	WA4-1248-000	000	OP Amp (NEC μ PC324G2)
U104	WA4-5611-000	000	Analog SW (SILICONIX DG403DY)
U105	WA4-1248-000	000	OP Amp (NEC μ PC324G2)
U106	WA4-5611-000	000	Analog SW (SILICONIX DG403DY)
U107	WA4-1248-000	000	OP Amp (NEC μ PC324G2)
D101	WA1-5815-000	000	Schottky Diode (TOSHIBA U1FWJ44N)
D102	WA1-0422-000	000	Diode (NEC 1SS123)
D103	WA1-5843-000	000	Diode (TOSHIBA HN1D03FU)
D104	WA1-0422-000	000	Diode (NEC 1SS123)
D105	WA1-0422-000	000	Diode (NEC 1SS123)
D106	WA1-0422-000	000	Diode (NEC 1SS123)
P101	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P102	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P104	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P105	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P106	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
J103	VS1-5884-020	000	Receptacle (HRS FX6-20S-0.8SV)
C101	VC8-4460-107	000	AL Electrolytic Capacitor (NICHICON UPS1V101MPH)
C102	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C103	VC8-4450-226	000	AL Electrolytic Capacitor (NICHICON UPS1V220MDH)
C104	VC8-4440-227	000	AL Electrolytic Capacitor (NICHICON UPS1C221MPH)
C105	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C106	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C107	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C108	VC6-6350-106	000	AL Electrolytic Capacitor (NICHICON UWX1V100MCR)
C109	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C110	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C111	Not Used		
C112	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C113	Not Used		

Symbol	Parts No.	Dimension	Description
C114	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C115	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C116	VC7-8730-226	000	AL Electrolytic Capacitor (NICHICON UWP1C220MCR)
C117	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C118	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C119	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C120	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C121	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C122	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C123	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C124	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C125	Not Used		
C126	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C127	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C128	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C129	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C150	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C151	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
R101	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R102	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R103	VR7-3040-912	000	Tip Resistor (SSM RR1220P-912-D)
R104	VR7-3040-133	000	Tip Resistor (SSM RR1220P-133-D)
R105	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R106	VR7-3040-123	000	Tip Resistor (SSM RR1220P-123-D)
R107	VR7-3040-123	000	Tip Resistor (SSM RR1220P-123-D)
R108	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R109	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R110	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R111	VR7-2610-202	000	Tip Resistor (TAMA CRG10G202J)
R112	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R113	VR7-2610-302	000	Tip Resistor (TAMA CRG10G302J)
R114	VR7-2610-303	000	Tip Resistor (TAMA CRG10G303J)
R115	VR7-2610-203	000	Tip Resistor (TAMA CRG10G203J)
R116	VR7-2610-273	000	Tip Resistor (TAMA CRG10G273J)
R117	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)

Symbol	Parts No.	Dimension	Description
R118	VR7-2610-302	000	Tip Resistor (TAMA CRG10G302J)
R119	VR7-2610-303	000	Tip Resistor (TAMA CRG10G303J)
R120	VR7-2610-203	000	Tip Resistor (TAMA CRG10G203J)
R121	VR7-2610-273	000	Tip Resistor (TAMA CRG10G273J)
R122	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R123	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R124	VR7-2610-474	000	Tip Resistor (TAMA CRG10G474J)
R125	VR7-2610-511	000	Tip Resistor (TAMA CRG10G511J)
R126	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R127	VR7-3040-102	000	Tip Resistor (SSM RR1220P-102-D)
R128	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R129	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R130	Not Used		
R131	VR7-3040-512	000	Tip Resistor (SSM RR1220-512-D)
R132	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R133	VR7-3040-512	000	Tip Resistor (SSM RR1220P-512-D)
R134	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R135	VR7-3040-333	000	Tip Resistor (SSM RR1220-333-D)
R136	VR7-2610-822	000	Tip Resistor (TAMA CRG10G822J)
R137	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R138	VR7-2610-432	000	Tip Resistor (TAMA CRG10G432J)
R139	VR7-2610-432	000	Tip Resistor (TAMA CRG10G432J)
R140	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R141	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R142	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R143	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R144	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R145	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R146	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R147	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R148	Not Used		
R149	Not Used		
R150	VR7-2610-105	000	Tip Resistor (TAMA CRG10G105J)
L101	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)
L102	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)

Symbol	Parts No.	Dimension	Description
L103	VL5-0420-681	000	Choke Coil (TDK TSL1110-681KR38)
VR101	VR7-6140-203	000	Trimmer (TOCOS G3B-20K Ω)
VR102	VR7-6140-203	000	Trimmer (TOCOS G3B-20K Ω)
VR103	VR5-6140-503	000	Trimmer (TOCOS G3B-50K Ω)
VR104	VR7-6140-503	000	Trimmer (TOCOS G3B-50K Ω)
T101	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T102	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T103	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T104	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T105	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T106	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T107	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T108	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T109	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T110	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T111	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T112	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T113	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T114	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T115	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
PCB101	BG2-4343-000	000	Zoom Amp 1 P. C. B.

PARTS LAYOUT
(PARTS FACE)PARTS LAYOUT
(SOLDERED FACE)

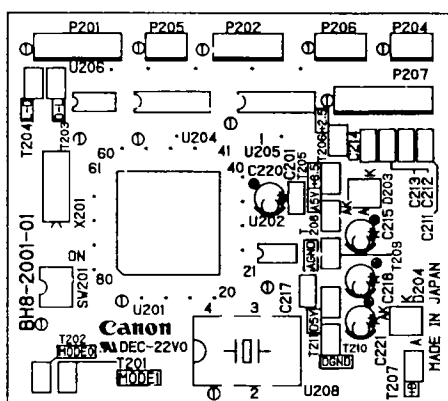
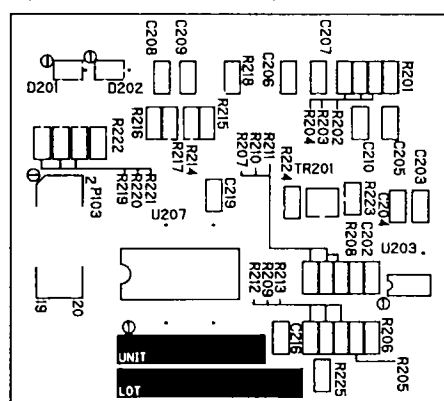


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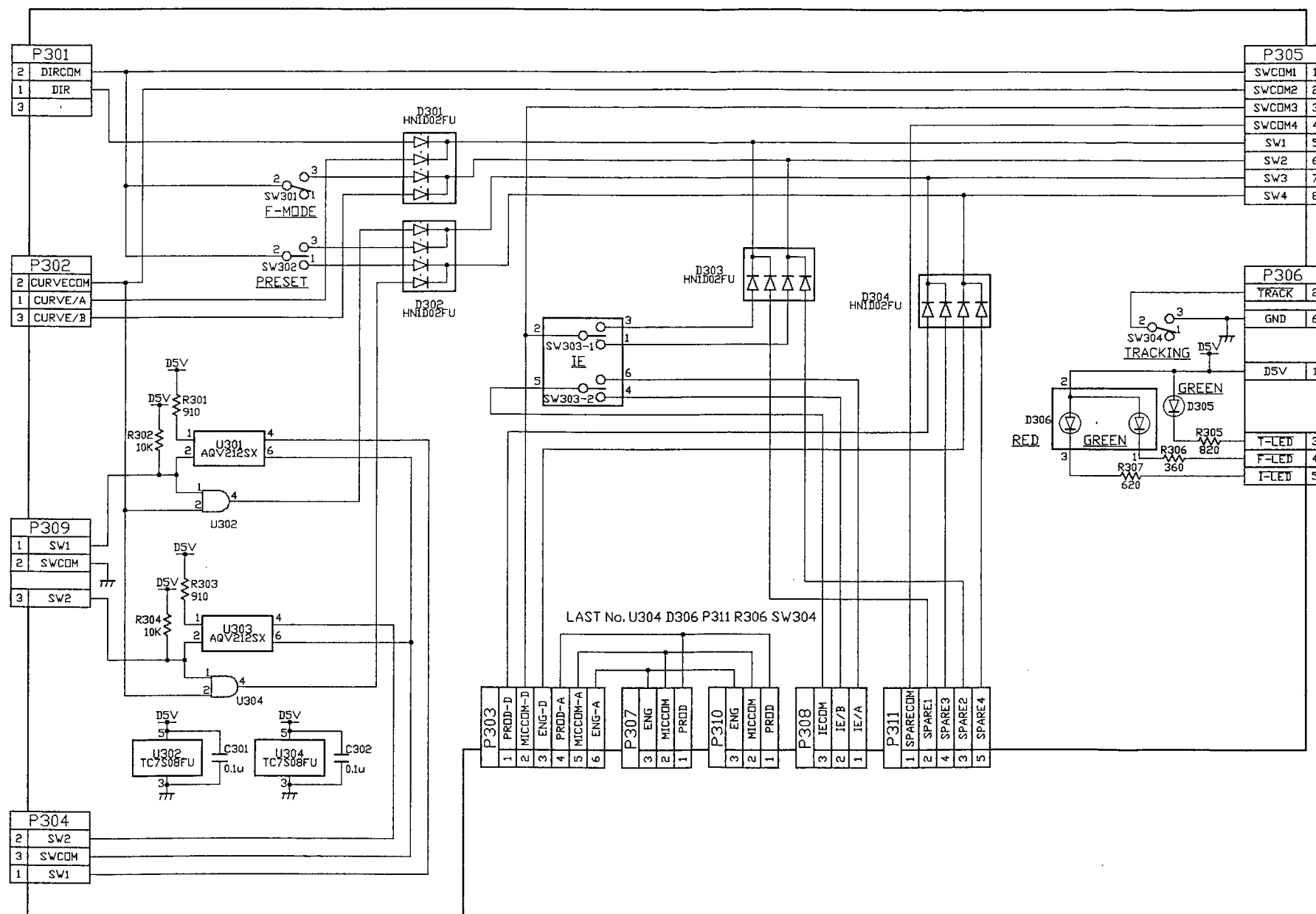
Symbol	Parts No.	Dimension	Description
U201	Y62-2053-000	000	CPU (HITACHI HD6475328F 10MHz)
U202	WA4-5663-000	000	Reset IC (MITSUMI PST591CMT)
U203	WA4-8387-000	000	Eeprom IC (ZAIKO X25C02SI)
U204	WA4-5611-000	000	Analog SW IC (SILICONIX DG403DY)
U205	WA4-5611-000	000	Analog SW IC (SILICONIX DG403DY)
U206	WA4-6454-000	000	Sireal Interface IC (N.S DS89C21TM)
U207	WA4-6467-000	000	A/D Converter IC (ANALOG DEVICES AD7880CR)
U208	WK2-5636-000	000	Crystal Oscillator (EPSON SG-6152.5MHz)
D201	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D202	WA1-5842-000	000	Diode (TOSHIBA HN1D01FU)
D203	WA1-0422-000	000	Diode (NEC 1SS123)
D204	WA1-0422-000	000	Diode (NEC 1SS123)
P103	VS1-6022-020	000	Connector (HRS FX6-20P-0.8SV1)
P201	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P202	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P204	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P205	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P206	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P207	VS1-1201-009	000	Pin Header (MOLEX 53047-0910)
C201	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C202	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C203	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH100K50)
C204	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH100K50)
C205	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C206	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C207	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C208	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C209	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C210	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C211	VC5-6690-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C212	VC5-6690-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C213	VC5-6690-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C214	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C215	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)

Symbol	Parts No.	Dimension	Description
C216	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C217	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C218	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)
C219	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C220	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)
C221	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)
R201	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R202	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R203	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R204	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R205	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R206	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R207	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R208	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R209	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R210	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R211	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R212	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R213	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R214	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R215	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R216	VR7-2610-622	000	Tip Resistor (TAMA CRG10G622J)
R217	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R218	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R219	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R220	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R221	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R222	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R223	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R224	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R225	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
T201	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T202	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T203	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)

Symbol	Parts No.	Dimension	Description
T204	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T205	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T206	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T207	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T208	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T209	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T210	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T211	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
SW201	WC8-5110-000	000	DIP SW (COPAL CHS-02B)
TR201	WA2-0759-000	000	Digital Transistor (ROHM DTA144EK)
X201	WK2-5200-000	000	Crystal Oscillator (EPSON CA301 19.6608MHz)
PCB201	BG2-4344-000	000	Zoom Amp 2 P. C. B.

PARTS LAYOUT
(PARTS FACE)PARTS LAYOUT
(SOLDERED FACE)

SWITCH BOARD for ZDJ-D01 CIRCUIT DIAGRAM



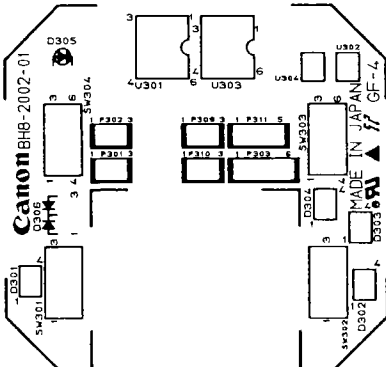
Symbol	Parts No.	Dimension	Description
U301	WG8-5306-000	000	Photo MOS Relay (MATUSHITA DENKO AQV212SX)
U302	WA3-6865-000	000	AND Gate (TOSHIBA TC7S08FU)
U303	WG8-5306-000	000	Photo MOS Relay (MATUSHITA DENKO AQV212SX)
U304	WA3-6865-000	000	AND Gate (TOSHIBA TC7S08FU)
D301	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D302	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D303	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D304	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D305	WG1-0540-000	000	LED (SHARP GL5EG43)
D306	WG1-5179-000	000	LED (SHARP GL5CL44)
P301	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P302	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P304	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P305	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P306	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P307	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P308	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P309	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P310	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P311	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
R301	VR7-2610-911	000	Tip Resistor (TAMA CRG10G911J)
R302	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R303	VR7-2610-911	000	Tip Resistor (TAMA CRG10G911J)
R304	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R305	VR7-2610-821	000	Tip Resistor (TAMA CRG10G821J)
R306	VR7-2610-361	000	Tip Resistor (TAMA CRG10G361J)
R307	VR7-2610-621	000	Tip Resistor (TAMA CRG10G621J)
SW301	WC1-5057-000	000	Toggle Switch (FUJISOKU ATE1D-2M3-10)
SW302	WC1-5061-000	000	Toggle Switch (FUJISOKU ATE1G-2M3-10)
SW303	BH3-0749-000	000	Toggle Switch (FUJISOKU ATE2E-2M3-10)
SW304	WC1-5059-000	000	Toggle Switch (FUJISOKU ATE2D-2M3-10)

BG2-4345

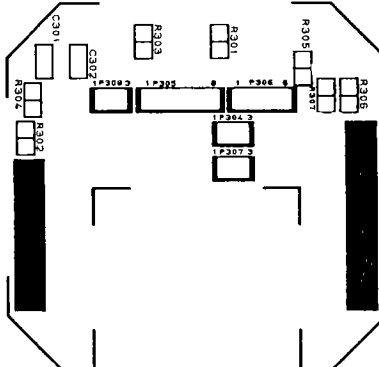
PARTS LIST

2-1-5 3/4

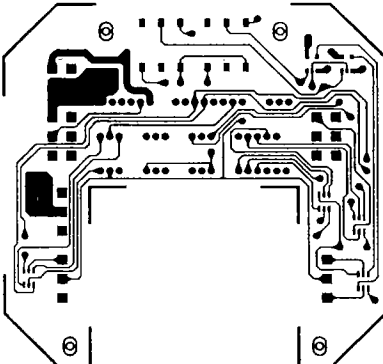
Symbol	Parts No.	Dimension	Description
PCB301	BG2-4345-000	000	Switch Board Unit

PARTS LAYOUT
(PARTS FACE)

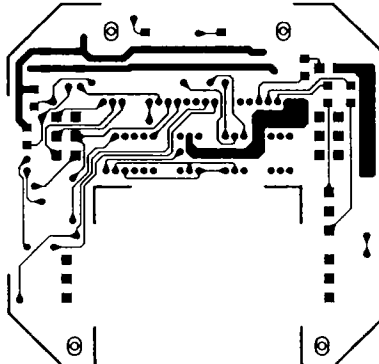
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(SOLDERED FACE)



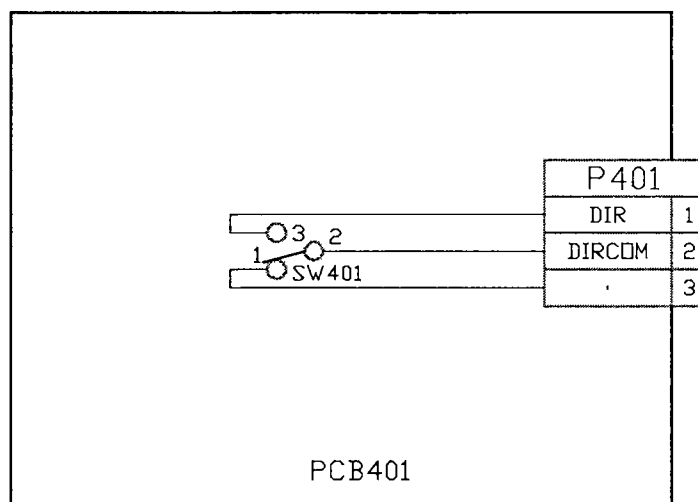
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(PARTS FACE)



PATTERN
(SOLDERED FACE)

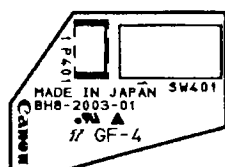


DIR BOARD
CIRCUIT DIAGRAM

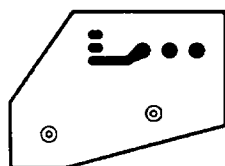


Symbol	Parts No.	Dimension	Description
P401	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
SW401	WC1-5057-000	000	Toggle Switch (FUJISOKU ATE1D-2M3-10)
PCB401	BG2-4346-000	000	Dia Board

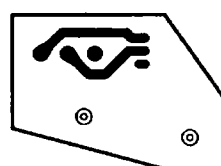
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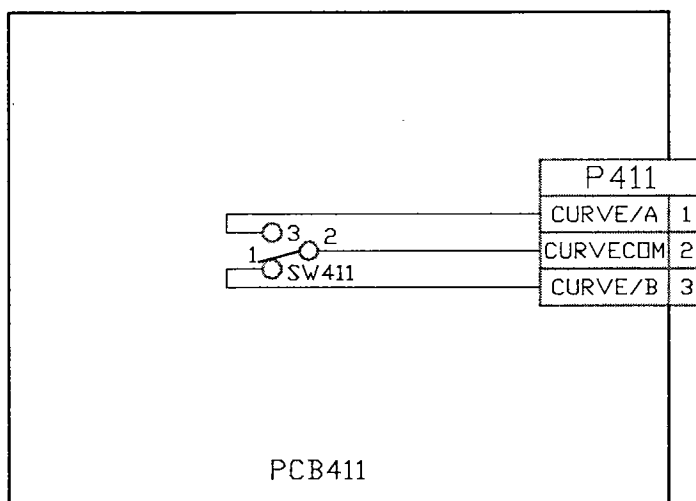


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(PARTS FACE)



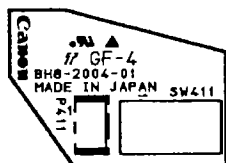
PATTERN
(SOLDERED FACE)



CORVE BOARD
CIRCUIT DIAGRAM

Symbol	Parts No.	Dimension	Description
P411	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
SW411	WC1-5058-000	000	Toggle Switch (FUJISOKU ATE1E-2M3-10)
PCB411	BG2-4347-000	000	Curve Board

PARTS LAYOUT
(PARES FACE)

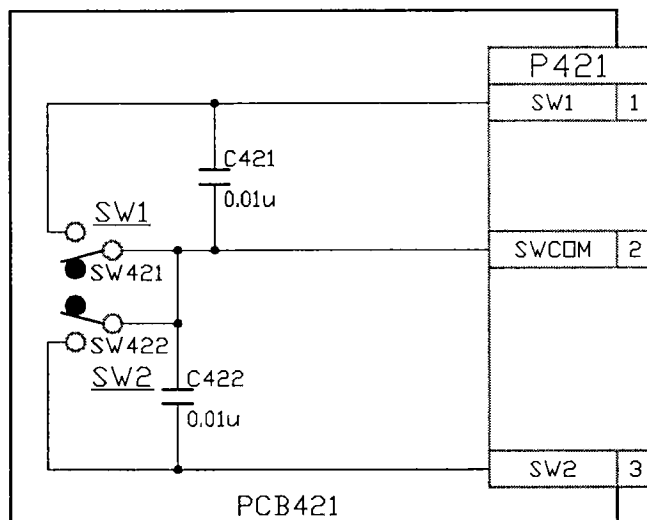


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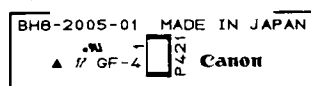
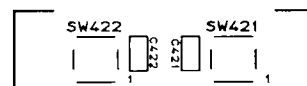
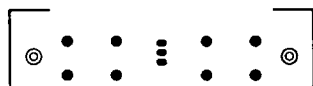


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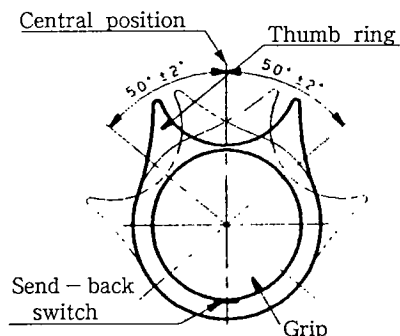


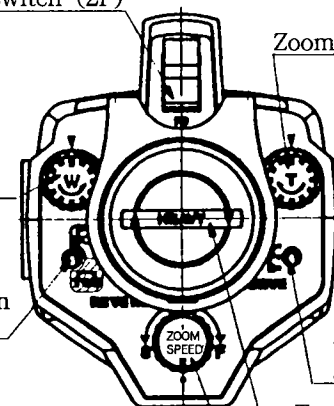
RET BOARD
CIRCUIT DIAGRAM

Symbol	Parts No.	Dimension	Description
P421	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
SW421	WC2-5046-000	000	Push Switch (ALPS SKHWAC)
SW422	WC2-5046-000	000	Push Switch (ALPS SKHWAC)
C421	VC5-8030-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C422	VC5-8030-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
PCB421	BG2-4348-000	000	RET Board

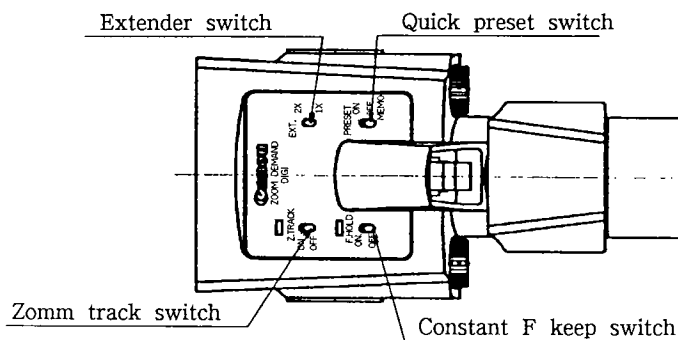
PARTS LAYOUT
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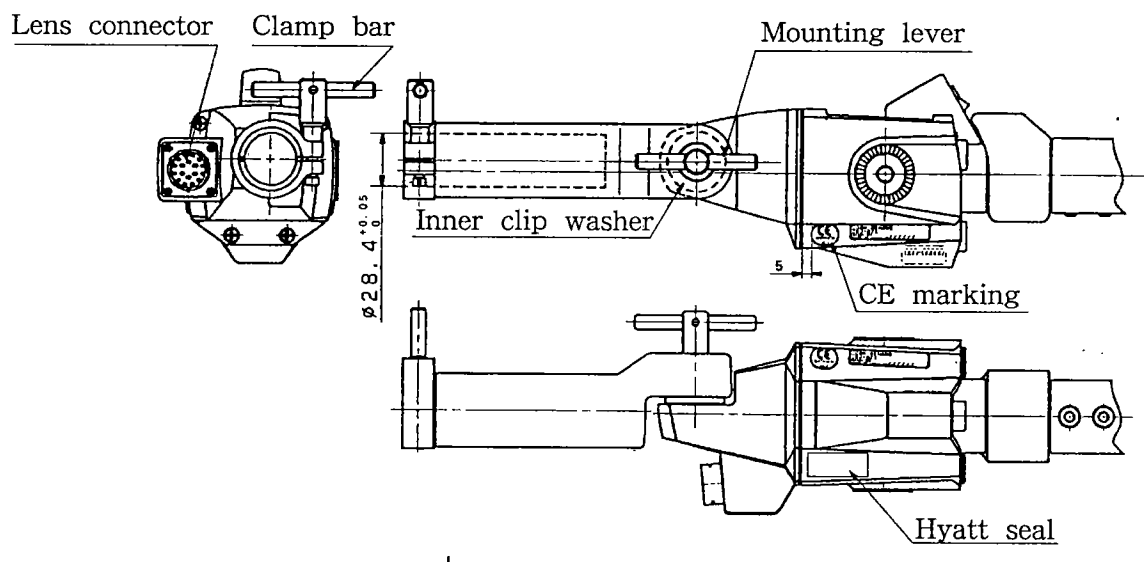
項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
1. APPLICABLE MODEL	This standard applies to a Zoom Demand ZDJ - D01 (EXT: 1X, 2X) that delivers its performance when used with the DIGI SUPER series of lenses.
2. THUMB RING	
2 - 1. Operation	The thumb ring must be smoothly turned clockwise and counterclockwise. The thumb ring must not jerk or grate.
2 - 2. Angular Displacement	Upon a return to the central position, any impact due to the spring must not be felt.
2 - 3. Direction of Rotation	$50^{\circ} \pm 2^{\circ}$ clockwise and counterclockwise from the central position
2 - 4. Torque Adjustment	See 3 - 2, "Operation Inversion Switch."
2 - 5. Factory Adjustment	- When the torque adjustment control at the end of the grip is turned clockwise, the torque must increase. - The torque must be 400 gcm or lower in the loosest state. - The thumb ring must be factory - set to the loosest state.
3. SWITCHES (I)	
3 - 1. POT Output Adjustment Switch	- The switch must have three positions. When viewed from the grip side, the top position must be 1, the central position must be OFF, and the bottom position must be 2. - When the switch is set to 1 or 2, a predetermined POT curve must be output.
3 - 2. Operation Inversion Switch	When the switch is set to the top position, viewed from the grip side, a clockwise turn of the thumb ring must cause an operation toward the tele end. When the switch is set to the bottom position, a clockwise turn of the thumb ring must cause an operation toward the wide end.
3 - 3. Send - Back Switch	Pressing two switches below the grip must not produce any abnormal sound.
3 - 4. Talk - Back Switch	The switch must have these three positions: ENG (alternate), PD (momentary), and neutral.
3 - 5. Factory Adjustment	The POT output adjustment switch, operation inversion switch, and talk - back switch must be factory - set to the OFF, top, and neutral positions respectively.



項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
4. CONTROLS 4 - 1. Zoom Speed Control 4 - 2. Zoom Track Controls 4 - 3. Factory Adjustment	- The zoom speed must be able to be continuously changed by turning the zoom speed control. - The indicator of the main body (bottom) and the indicator of the control must align with each other.  The diagram shows a top-down view of a control panel. At the top is a 'Talk - back switch (2P)'. Below it is a large circular dial with a horizontal indicator line. To the left of the dial is a 'Zoom track control (W)' with a gear icon. To the right is a 'Zoom track control (T)' with a gear icon. Below the dial is a 'Zoom speed control' with a 'ZOOM SPEED' label. To the right of the dial is an 'Output curve adjustment switch'. Below the dial is a 'Torque adjustment control'. A 'Rotation inversion switch' is located to the left of the dial. - Zoom track controls T and W must be able to be turned smoothly. - The indicator of the main body must align with the clockwise end of the T control (tele end) and with the counterclockwise end of the W control (wide end). - The zoom speed control, zoom track control T, and zoom track control W must be factory - set to the indicator position, clockwise end, and counterclockwise end respectively.

項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
5. SWITCHES (II)	
5 - 1. Extender Switch	The switch must have the 1X and 2X positions. (When the switch is set to the 2X position, IE/B must be connected to IE/COM.)
5 - 2. Zoom Track Switch	The switch must have the ON (LED lighted) and OFF (no display) positions.
5 - 3. Constant F Keep Switch	- When viewed from the grip side, the deeper position must be ON and the closer position must be OFF. - When the switch is set to the ON position, the zoom operation must stop at a point where a focal length and F - value curve stored in the lens beforehand and the actual F - value signal meet.
5 - 4. Quick Preset	When viewed from the grip side, the switch must have these three positions: the deepest position to turn on the function (alternate), the middle position to turn off the function, and the closest position to execute presetting (momentary).
5 - 5. Factory Adjustment	The extender switch must be factory - set to the 1X position. The zoom track switch, constant F keep switch, and quick preset switch must be factory - set to the OFF positions.
6. APPEARANCE	
6 - 1. Appearance	- The appearance standard of the television camera lens must be met. - Any obvious indentation or other damage must not be left.
6 - 2. Coating Color	- Main body (clamper section) : Art gray7.5L1F1 (2.5Y7.5/0.7) B (according to color chart) - Grip section : Plastic coating (PROTEIN PAINES), black (N1.5) B, no grain (according to color sample)



項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
7. CLAMPER	
7 - 1. Mounting	When the mounting lever is fastened, the Zoom Demand must be tightly fixed to the head of the main body (within a range of $\pm 90^\circ$ from the horizontal position) at the inner clip washer. There must be no play.
7 - 2. Clamp Section	- By fastening the clamp lever, a bar having a diameter of 23.85 to 28.4 mm must be able to be secured. There must be no play. - The inside diameter must be $\phi 28.4 \text{ mm}^{+0.05}_0$ - The clamp lever must be set to the loosest position.
7 - 3. Factory Adjustment	
8. CONNECTOR	
8 - 1. For Lens	The master key (the largest groove) must be directed toward the top face of the Demand.
9. CE MARKING AND Hyatt SEAL	The BC2 - 4843 - 1 CE marking and BC2 - 2255 Hyatt seal must be appended.
 The diagram illustrates the mechanical assembly of the clamper. It includes three views: a side view of the lens connector and clamp bar, a top view of the mounting lever and inner clip washer, and a bottom view of the CE marking and Hyatt seal. Key dimensions and labels are provided: the inner clip washer has a diameter of $\phi 28.4 \text{ mm}^{+0.05}_0$, the mounting lever is labeled, the inner clip washer is labeled, the CE marking is labeled, and the Hyatt seal is labeled. A dimension of 5 mm is indicated for the CE marking area.	

Detail-1



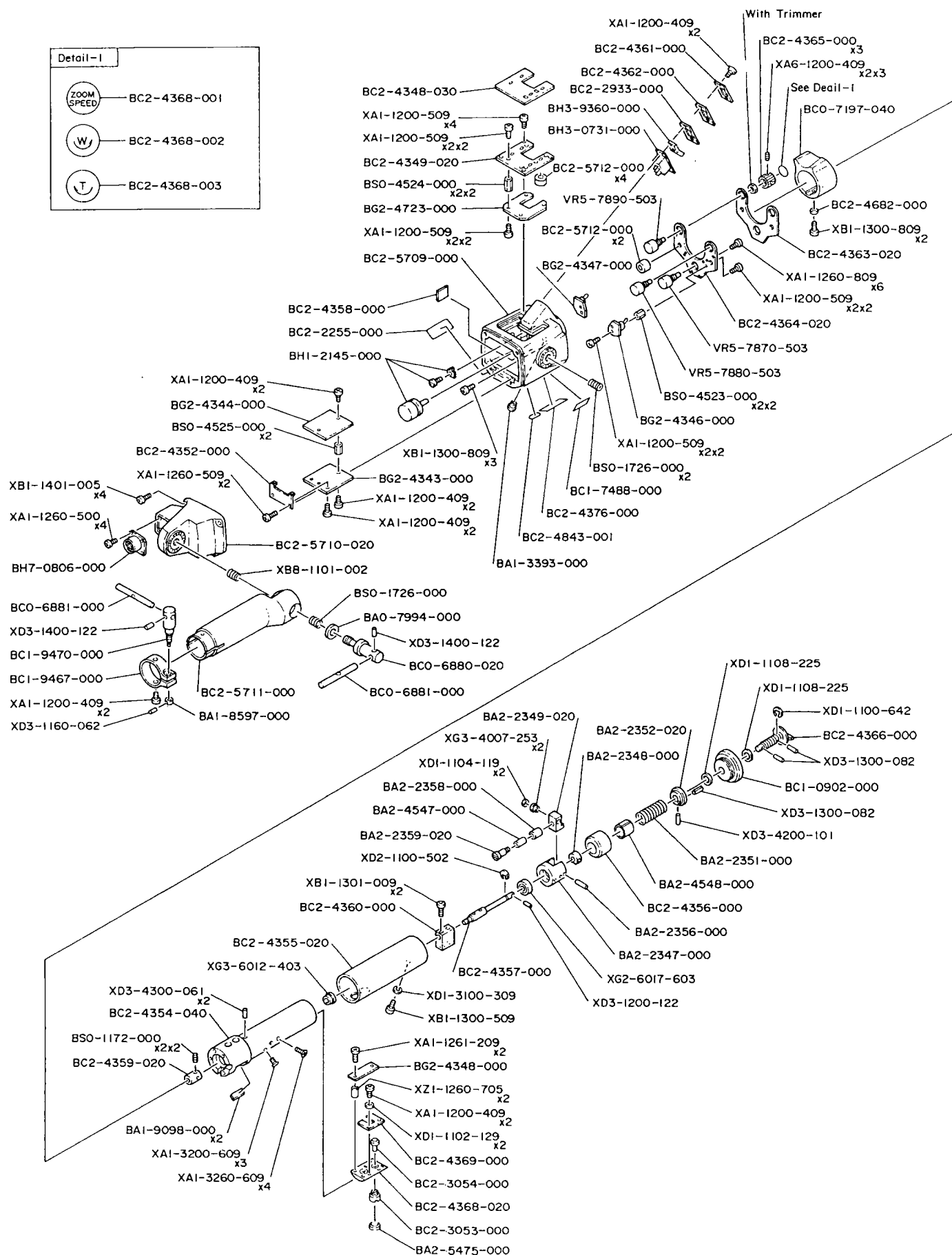
BC2-4368-001

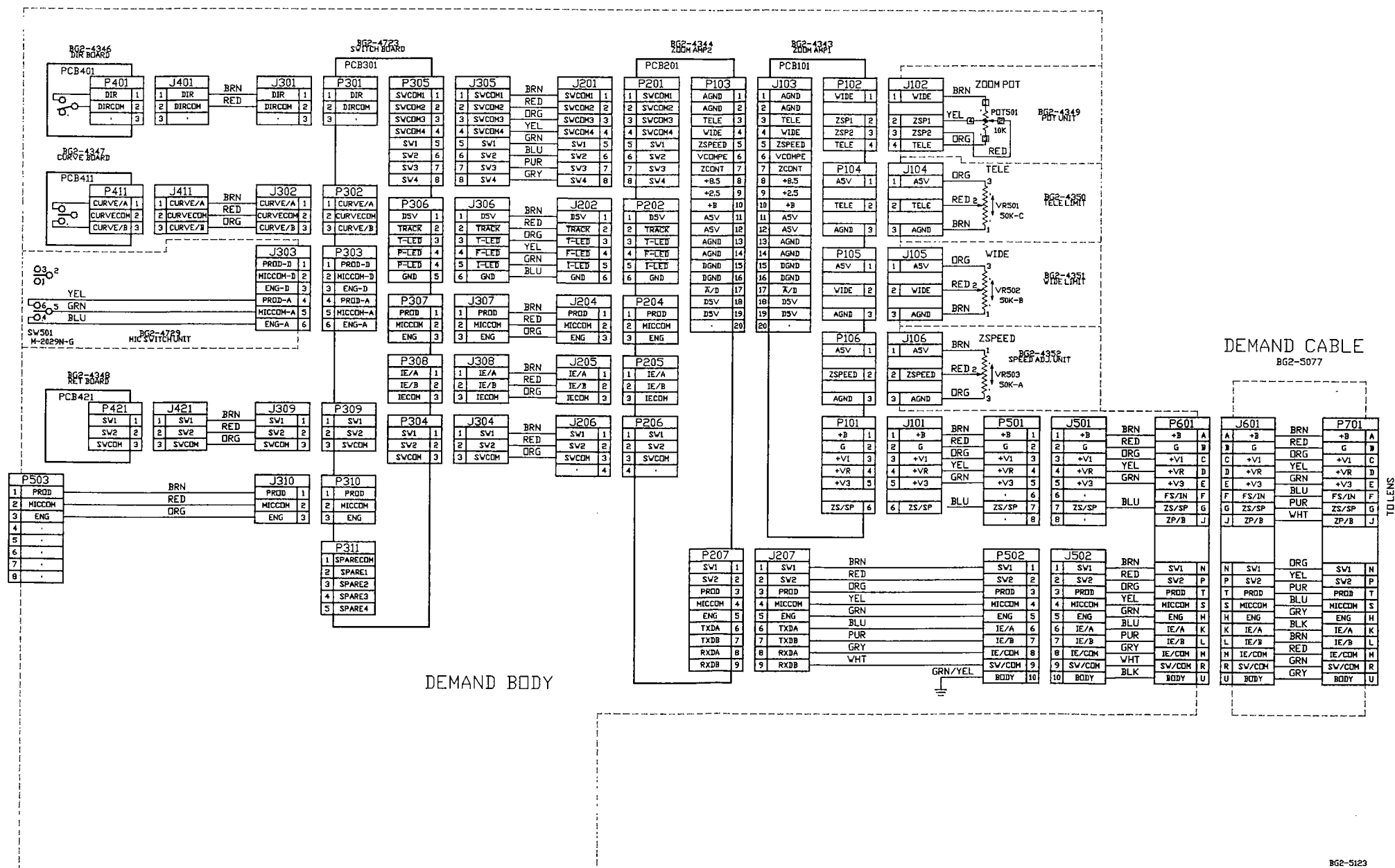


BC2-4368-002



BC2-4368-003



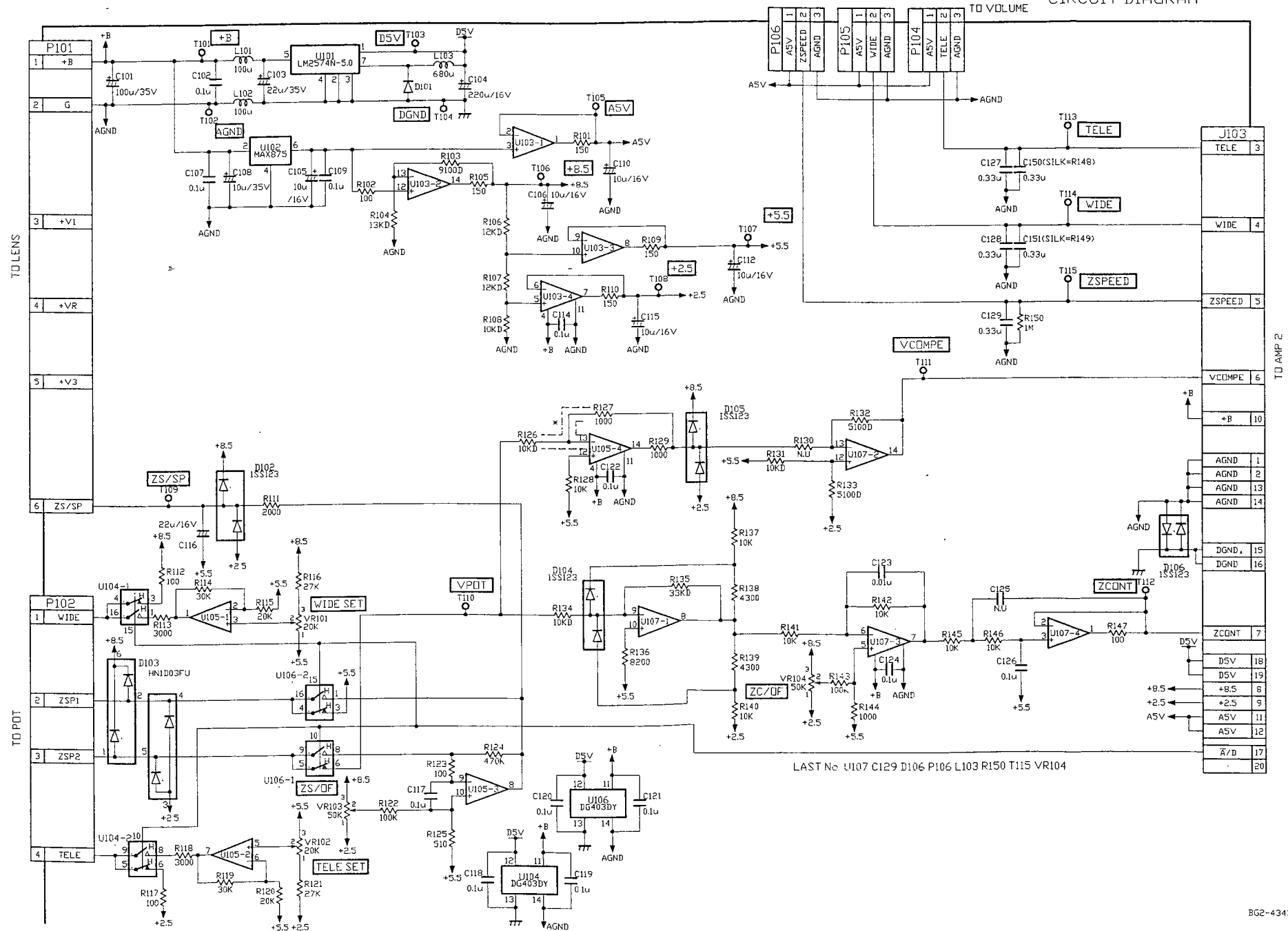
ZOOM DEMAND ZDJ-D21
GENERAL CIRCUIT DIAGRAM

Symbol	Parts No.	Dimension	Description
PCB101	BG2-4343-000	000	Zoom Amp1 P. C. B
PCB201	BG2-4344-000	000	Zoom Amp2 P. C. B
PCB301	BG2-4723-000	000	Switch Board Unit
PCB401	BG2-4346-000	000	Dia Board Unit
PCB411	BG2-4347-000	000	Corve Board Unit
PCB421	BG2-4348-000	000	Ret Board Unit
SW501	BH3-0731-000	000	Switch (NKK M-2029N-G)
	BH3-9360-000	000	Cap (NKK AT-448-W)
	(BG2-4729-000	000	Mic Switch Unit W/Connector)
POT501	BH1-2145-000	000	Variable Resistor (SAKAE SFCP22A-4974)
	BG2-4349-000	000	Variable Resistor Unit (W/Connector)
VR501	VR5-7890-503	000	Variable Resistor (TOCOS RV12YN15SC50K Ω)
	BG2-4350-000	000	Variable Resistor Unit (W/Connector)
VR502	VR5-7880-503	000	Variable Resistor (TOCOS RV12YN15SB50K Ω)
	BG2-4351-000	000	Variable Resistor Unit (W/Connector)
VR503	VR5-7870-503	000	Variable Resistor (TOCOS RV12YN15SA50K Ω)
	BG2-4352-000	000	Variable Resistor Unit (W/Connector)
P101	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P102	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P103	VS1-6022-020	000	Connector (HRS FX6-20P-0.8SV1)
P104	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P105	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P106	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P201	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P202	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P204	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P205	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P206	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P207	VS1-1201-009	000	Pin Header (MOLEX 53047-0910)

Symbol	Parts No.	Dimension	Description
P301	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P302	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P304	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P305	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P306	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P307	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P308	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P309	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P310	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P311	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
P401	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P411	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P421	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P501	VS1-0245-008	000	Connector (MOLEX 51006-0800)
(P501)	WS3-5190-000	000	Contact (MOLEX 50012-8100)
P502	VS1-0245-010	000	Connector (MOLEX 51006-1000)
(P502)	WS3-5190-000	000	Contact (MOLEX 50012-8100)
P601	BH7-0806-000	000	Connector (BENDEX PT02E-14-18P)
P701	BH7-1221-000	000	Connector (BENDEX PT05A-14-18P)
J101	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)
(J101)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J102	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J102)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J103	VS1-5884-020	000	Receptacle (HRS FX6-20S-0.8SV)
J104	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J104)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J105	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J105)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J106	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J106)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J201	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J201)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J202	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)

Symbol	Parts No.	Dimension	Description
(J202)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J204	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J204)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J205	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J205)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J206	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J206)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J207	VS3-0320-009	000	Socket Housing (MOLEX 51021-0900)
(J207)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J301	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J301)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J302	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J302)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J303	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)
(J303)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J304	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J304)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J305	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J305)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J306	VS3-0320-006	000	Socket Housing (MOLEX 51021-0600)
(J306)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J307	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J307)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J308	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J308)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J309	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J309)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J401	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J401)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J411	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J411)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J421	VS3-0320-003	000	Socket Housing (MOLEX 51021-0300)
(J421)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J501	VS3-0244-008	000	Connector (MOLEX 51005-0800)
(J501)	WS3-5191-000	000	Terminal (MOLEX 50013-8100)

Symbol	Parts No.	Dimension	Description
J502	VS3-0244-010	000	Connector (MOLEX 51005-1000)
(J502)	WS3-5191-000	000	Terminal (MOLEX 50013-8100)
J601	BH7-1222-000	000	Connector (BENDEX PT05A-14-18S)
CABLE	BH4-2792-000	000	Cable (HIRAKAWA 2464-SR-VSV-18x28AWG-7/0.13)

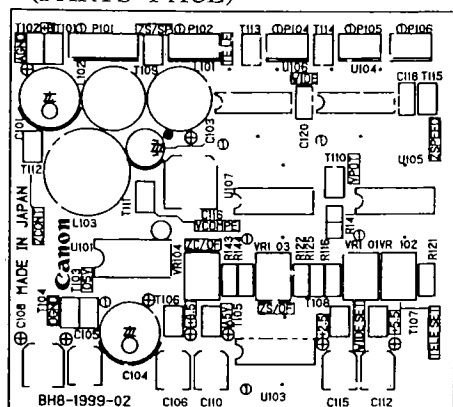
ZOOM AMP-1 P.C.B.
CIRCUIT DIAGRAM

Symbol	Parts No.	Dimension	Description
U101	WA4-6399-000	000	Regulator IC (N. S LM2574N-5)
U102	WA4-6398-000	000	Regulator IC (MAXIM MAX875ACSA)
U103	WA4-1248-000	000	OP Amp (NEC μ PC324G2)
U104	WA4-5611-000	000	Analog SW (SILICONIX DG403DY)
U105	WA4-1248-000	000	OP Amp (NEC μ PC324G2)
U106	WA4-5611-000	000	Analog SW (SILICONIX DG403DY)
U107	WA4-1248-000	000	OP Amp (NEC μ PC324G2)
D101	WA1-5815-000	000	Schottky Diode (TOSHIBA U1FWJ44N)
D102	WA1-0422-000	000	Diode (NEC 1SS123)
D103	WA1-5843-000	000	Diode (TOSHIBA HN1D03FU)
D104	WA1-0422-000	000	Diode (NEC 1SS123)
D105	WA1-0422-000	000	Diode (NEC 1SS123)
D106	WA1-0422-000	000	Diode (NEC 1SS123)
P101	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P102	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P104	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P105	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P106	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
J103	VS1-5884-020	000	Receptacle (HRS FX6-20S-0.8SV)
C101	VC8-4460-107	000	AL Electrolytic Capacitor (NICHICON UPS1V101MPH)
C102	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C103	VC8-4450-226	000	AL Electrolytic Capacitor (NICHICON UPS1V220MDH)
C104	VC8-4440-227	000	AL Electrolytic Capacitor (NICHICON UPS1C221MPH)
C105	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C106	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C107	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C108	VC6-6350-106	000	AL Electrolytic Capacitor (NICHICON UWX1V100MCR)
C109	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C110	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C111	Not Used		
C112	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C113	Not Used		

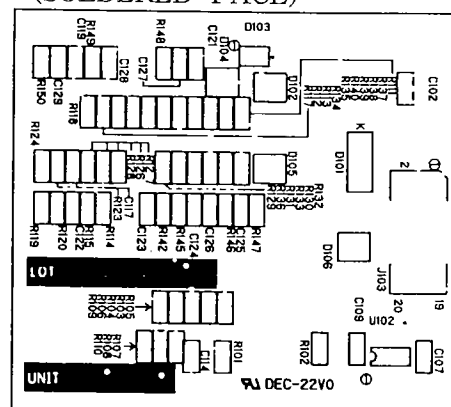
Symbol	Parts No.	Dimension	Description
C114	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C115	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C116	VC7-8730-226	000	AL Electrolytic Capacitor (NICHICON UWP1C220MCR)
C117	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C118	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C119	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C120	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C121	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C122	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C123	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C124	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C125	Not Used		
C126	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C127	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C128	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C129	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C150	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C151	VC5-8669-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
R101	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R102	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R103	VR7-3040-912	000	Tip Resistor (SSM RR1220P-912-D)
R104	VR7-3040-133	000	Tip Resistor (SSM RR1220P-133-D)
R105	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R106	VR7-3040-123	000	Tip Resistor (SSM RR1220P-123-D)
R107	VR7-3040-123	000	Tip Resistor (SSM RR1220P-123-D)
R108	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R109	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R110	VR7-2610-151	000	Tip Resistor (TAMA CRG10G151J)
R111	VR7-2610-202	000	Tip Resistor (TAMA CRG10G202J)
R112	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R113	VR7-2610-302	000	Tip Resistor (TAMA CRG10G302J)
R114	VR7-2610-303	000	Tip Resistor (TAMA CRG10G303J)
R115	VR7-2610-203	000	Tip Resistor (TAMA CRG10G203J)
R116	VR7-2610-273	000	Tip Resistor (TAMA CRG10G273J)
R117	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)

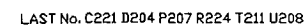
Symbol	Parts No.	Dimension	Description
R118	VR7-2610-302	000	Tip Resistor (TAMA CRG10G302J)
R119	VR7-2610-303	000	Tip Resistor (TAMA CRG10G303J)
R120	VR7-2610-203	000	Tip Resistor (TAMA CRG10G203J)
R121	VR7-2610-273	000	Tip Resistor (TAMA CRG10G273J)
R122	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R123	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R124	VR7-2610-474	000	Tip Resistor (TAMA CRG10G474J)
R125	VR7-2610-511	000	Tip Resistor (TAMA CRG10G511J)
R126	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R127	VR7-3040-102	000	Tip Resistor (SSM RR1220P-102-D)
R128	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R129	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R130	Not Used		
R131	VR7-3040-512	000	Tip Resistor (SSM RR1220-512-D)
R132	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R133	VR7-3040-512	000	Tip Resistor (SSM RR1220P-512-D)
R134	VR7-3040-103	000	Tip Resistor (SSM RR1220P-103-D)
R135	VR7-3040-333	000	Tip Resistor (SSM RR1220-333-D)
R136	VR7-2610-822	000	Tip Resistor (TAMA CRG10G822J)
R137	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R138	VR7-2610-432	000	Tip Resistor (TAMA CRG10G432J)
R139	VR7-2610-432	000	Tip Resistor (TAMA CRG10G432J)
R140	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R141	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R142	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R143	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R144	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R145	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R146	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R147	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R148	Not Used		
R149	Not Used		
R150	VR7-2610-105	000	Tip Resistor (TAMA CRG10G105J)
L101	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)
L102	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)

Symbol	Parts No.	Dimension	Description
L103	VL5-0420-681	000	Choke Coil (TDK TSL1110-681KR38)
VR101	VR7-6140-203	000	Trimmer (TOCOS G3B-20K Ω)
VR102	VR7-6140-203	000	Trimmer (TOCOS G3B-20K Ω)
VR103	VR5-6140-503	000	Trimmer (TOCOS G3B-50K Ω)
VR104	VR7-6140-503	000	Trimmer (TOCOS G3B-50K Ω)
T101	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T102	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T103	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T104	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T105	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T106	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T107	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T108	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T109	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T110	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T111	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T112	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T113	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T114	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T115	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
PCB101	BG2-4343-000	000	Zoom Amp 1 P. C. B.

PARTS LAYOUT
(PARTS FACE)

PARTS LAYOUT (SOLDERED FACE)



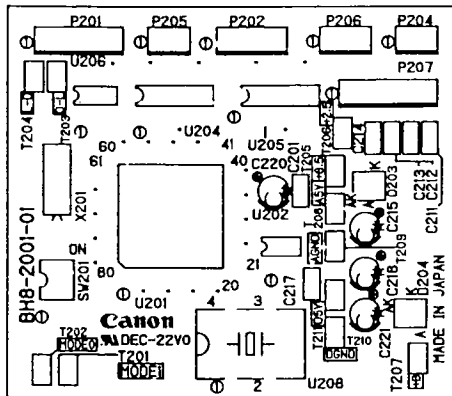


Symbol	Parts No.	Dimension	Description
U201	Y62-2053-000	000	CPU (HITACHI HD6475328F 10MHz)
U202	WA4-5663-000	000	Reset IC (MITSUMI PST591CMT)
U203	WA4-8387-000	000	Eeprom IC (ZAIKO X25C02SI)
U204	WA4-5611-000	000	Analog SW IC (SILICONIX DG403DY)
U205	WA4-5611-000	000	Analog SW IC (SILICONIX DG403DY)
U206	WA4-6454-000	000	Sireal Interface IC (N.S DS89C21TM)
U207	WA4-6467-000	000	A/D Converter IC (ANALOG DEVICES AD7880CR)
U208	WK2-5636-000	000	Crystal Oscillator (EPSON SG-6152.5MHz)
D201	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D202	WA1-5842-000	000	Diode (TOSHIBA HN1D01FU)
D203	WA1-0422-000	000	Diode (NEC 1SS123)
D204	WA1-0422-000	000	Diode (NEC 1SS123)
P103	VS1-6022-020	000	Connector (HRS FX6-20P-0.8SV1)
P201	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P202	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P204	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P205	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P206	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P207	VS1-1201-009	000	Pin Header (MOLEX 53047-0910)
C201	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C202	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C203	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH100K50)
C204	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH100K50)
C205	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C206	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C207	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C208	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C209	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C210	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C211	VC5-6690-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C212	VC5-6690-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C213	VC5-6690-334	000	Ceramic Capacitor (MURATA GRM40F334Z25)
C214	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C215	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)

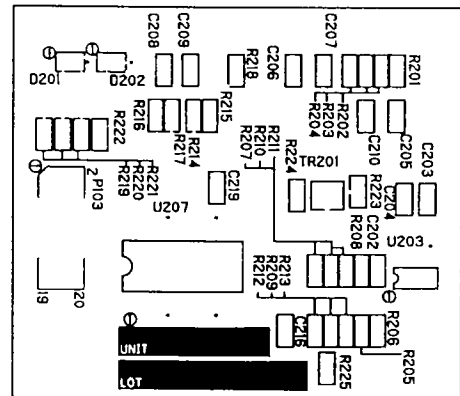
Symbol	Parts No.	Dimension	Description
C216	VC5-8040-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C217	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C218	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)
C219	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C220	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)
C221	VC8-4040-106	000	AL Electrolytic Capacitor (NICHICON UMV1E100MFH)
R201	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R202	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R203	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R204	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R205	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R206	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R207	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R208	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R209	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R210	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R211	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R212	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R213	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R214	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R215	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R216	VR7-2610-622	000	Tip Resistor (TAMA CRG10G622J)
R217	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R218	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R219	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R220	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R221	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R222	VR7-2610-101	000	Tip Resistor (TAMA CRG10G101J)
R223	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R224	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R225	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
T201	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T202	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T203	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)

Symbol	Parts No.	Dimension	Description
T204	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T205	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T206	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T207	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T208	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T209	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T210	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T211	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
SW201	WC8-5110-000	000	DIP SW (COPAL CHS-02B)
TR201	WA2-0759-000	000	Digital Transistor (ROHM DTA144EK)
X201	WK2-5200-000	000	Crystal Oscillator (EPSON CA301 19.6608MHz)
PCB201	BG2-4344-000	000	Zoom Amp 2 P. C. B.

PARTS LAYOUT
(PARTS FACE)

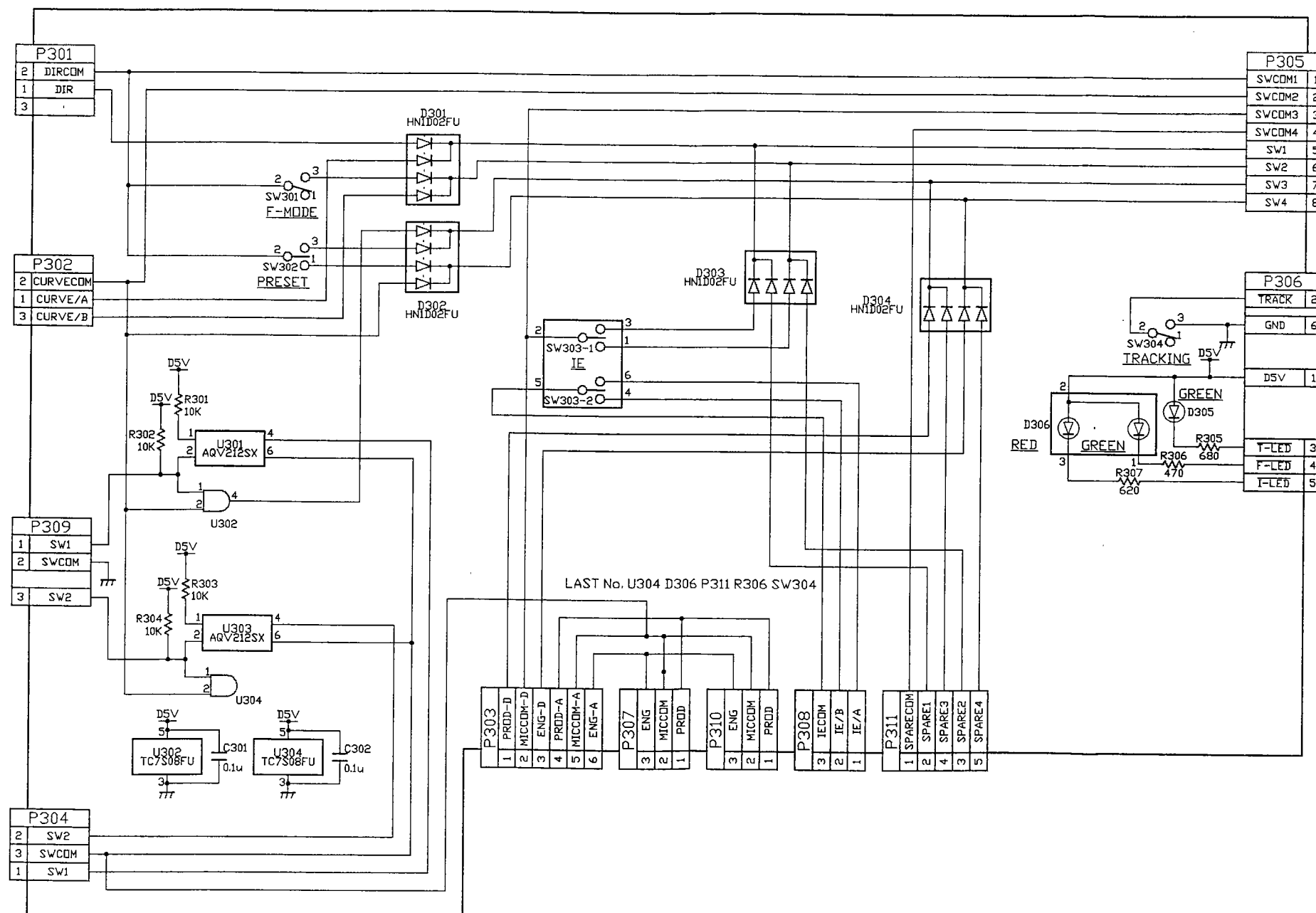


PARTS LAYOUT
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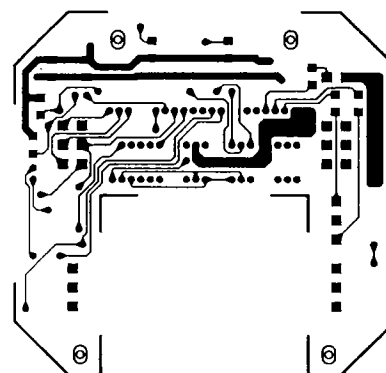


SWITCH BOARD for ZDJ-D21

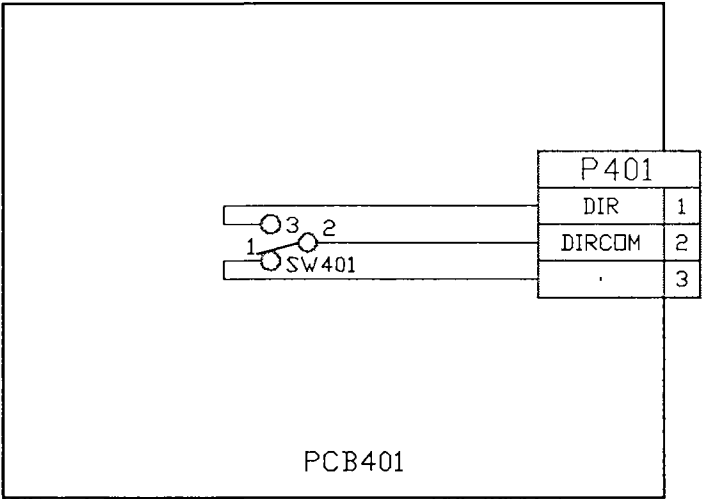
CIRCUIT DIAGRAM



Symbol	Parts No.	Dimension	Description
U301	WG8-5306-000	000	Photo MOS Relay (MATUSHITA DENKO AQV212SX)
U302	WA3-6865-000	000	AND Gate (TOSHIBA TC7S08FU)
U303	WG8-5306-000	000	Photo MOS Relay (MATUSHITA DENKO AQV212SX)
U304	WA3-6865-000	000	AND Gate (TOSHIBA TC7S08FU)
D301	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D302	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D303	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D304	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D305	WG1-0540-000	000	LED (SHARP GL5EG43)
D306	WG1-5179-000	000	LED (SHARP GL5CL44)
P301	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P302	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P304	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P305	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P306	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P307	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P308	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P309	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P310	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
P311	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
R301	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R302	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R303	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R304	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R305	VR7-2610-681	000	Tip Resistor (TAMA CRG10G681J)
R306	VR7-2610-471	000	Tip Resistor (TAMA CRG10G471J)
R307	VR7-2610-621	000	Tip Resistor (TAMA CRG10G621J)
SW301	WC1-5057-000	000	Toggle Switch (FUJISOKU ATE1D-2M3-10)
SW302	WC1-5061-000	000	Toggle Switch (FUJISOKU ATE1G-2M3-10)
SW303	BH3-0749-000	000	Toggle Switch (FUJISOKU ATE2E-2M3-10)
SW304	WC1-5059-000	000	Toggle Switch (FUJISOKU ATE2D-2M3-10)
PCB301	BG2-4723-000	000	Switch Board Unit

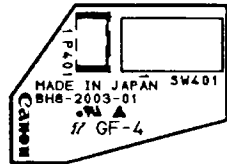


DIR BOARD
CIRCUIT DIAGRAM

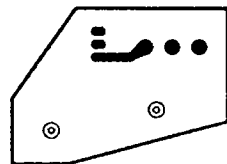


Symbol	Parts No.	Dimension	Description
P401	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
SW401	WC1-5057-000	000	Toggle Switch (FUJISOKU ATE1D-2M3-10)
PCB401	BG2-4346-000	000	Dia Board

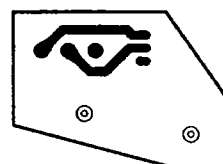
PARTS LAYOUT
(PARTS FACE)



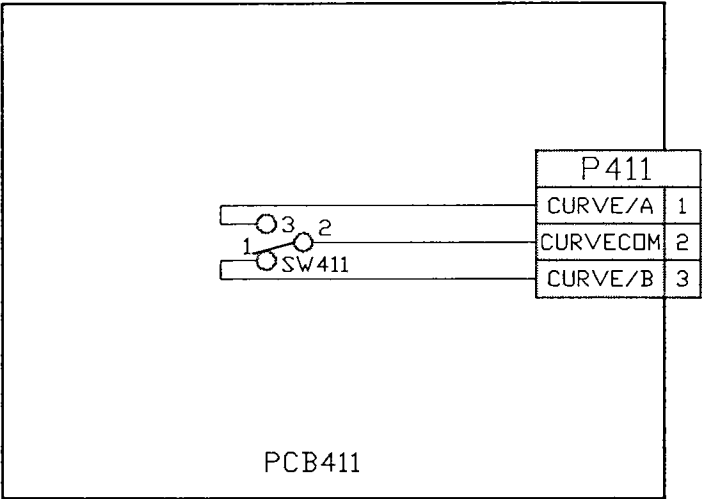
PATTERN
(PARTS FACE)



PATTERN
(SOLDERED FACE)

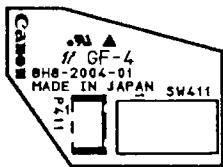


CORVE BOARD
CIRCUIT DIAGRAM

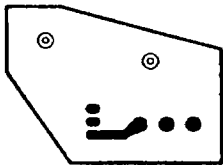


Symbol	Parts No.	Dimension	Description
P411	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
SW411	WC1-5058-000	000	Toggle Switch (FUJISOKU ATE1E-2M3-10)
PCB411	BG2-4347-000	000	Curve Board

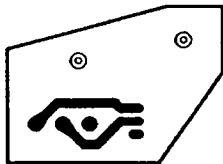
PARTS LAYOUT
(PARES FACE)



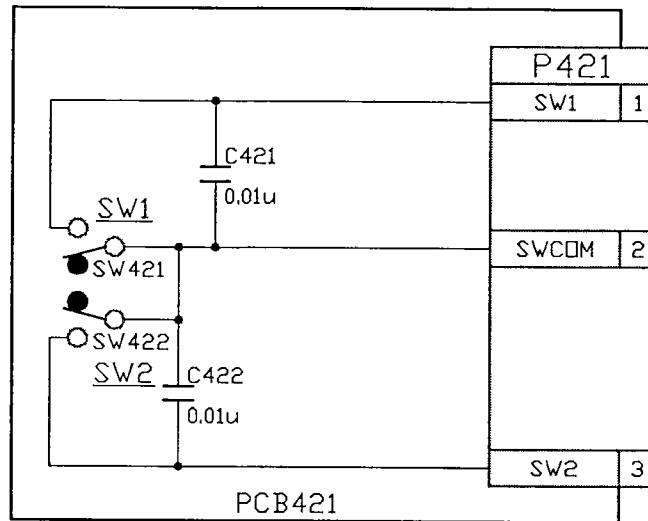
PATTERN
(PARTS FACE)



PATTERN
(SOLDERED FACE)

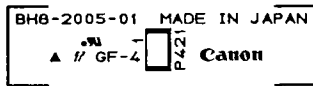


RET BOARD CIRCUIT DIAGRAM

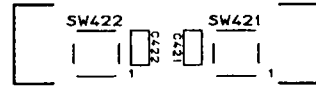


Symbol	Parts No.	Dimension	Description
P421	VS1-1201-003	000	Pin Header (MOLEX 53047-0310)
SW421	WC2-5046-000	000	Push Switch (ALPS SKHWAC)
SW422	WC2-5046-000	000	Push Switch (ALPS SKHWAC)
C421	VC5-8030-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
C422	VC5-8030-103	000	Ceramic Capacitor (MURATA GRM40F103Z50)
PCB421	BG2-4348-000	000	RET Board

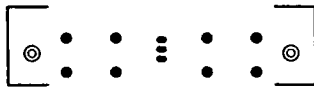
PARTS LAYOUT
(PARTS FACE)



PARTS LAYOUT
(SOLDERED FACE)



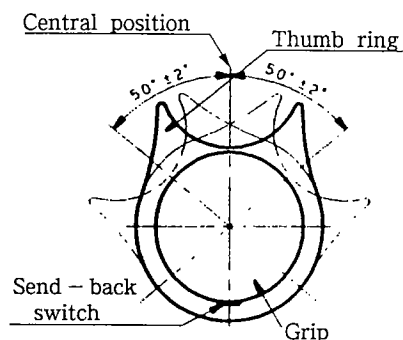
PATTERN
(PARTS FACE)



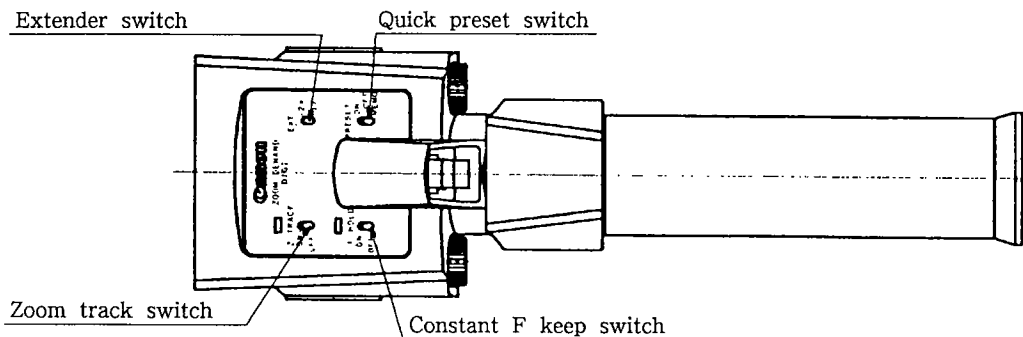
PATTERN
(SOLDERED FACE)

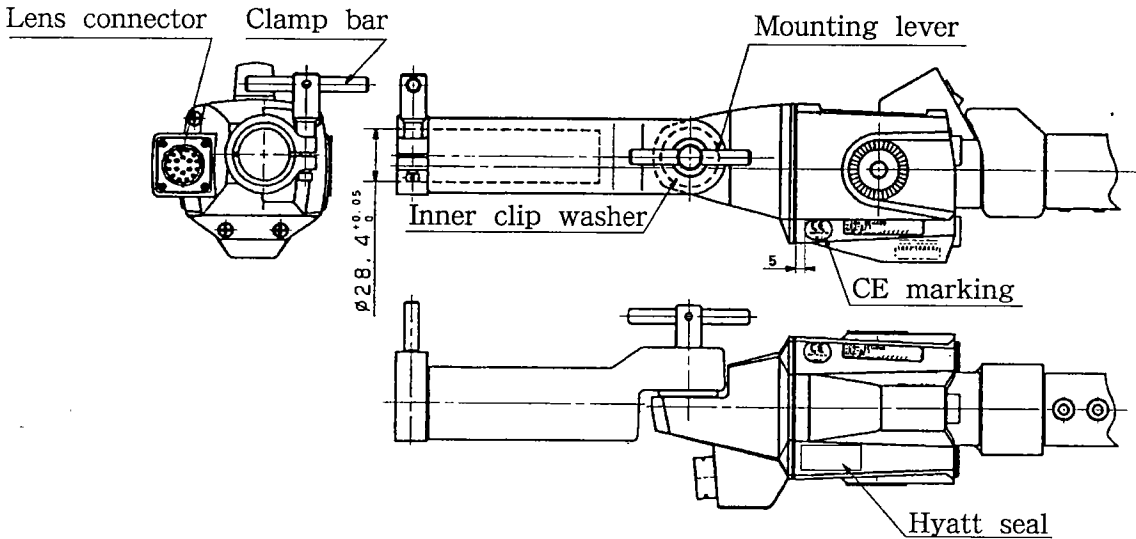


項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
1. APPLICABLE MODEL	This standard applies to a Zoom Demand ZDJ - D21 (EXT: 1X, 2X) that delivers its performance when used with the DIGI SUPER series of lenses.
2. THUMB RING	
2 - 1. Operation	The thumb ring must be smoothly turned clockwise and counterclockwise. The thumb ring must not jerk or grate.
2 - 2. Angular Displacement	Upon a return to the central position, any impact due to the spring must not be felt.
2 - 3. Direction of Rotation	$50^{\circ} \pm 2^{\circ}$ clockwise and counterclockwise from the central position
2 - 4. Torque Adjustment	See 3 - 2, "Operation Inversion Switch."
2 - 5. Factory Adjustment	- When the torque adjustment control at the end of the grip is turned clockwise, the torque must increase. - The torque must be 400 gcm or lower in the loosest state. - The thumb ring must be factory - set to the loosest state.
3. SWITCHES (I)	
3 - 1. POT Output Adjustment Switch	- The switch must have three positions. When viewed from the grip side, the top position must be 1, the central position must be OFF, and the bottom position must be 2. - When the switch is set to 1 or 2, a predetermined POT curve must be output.
3 - 2. Operation Inversion Switch	When the switch is set to the top position, viewed from the grip side, a clockwise turn of the thumb ring must cause an operation toward the tele end. When the switch is set to the bottom position, a clockwise turn of the thumb ring must cause an operation toward the wide end.
3 - 3. Send - Back Switch	Two switches below the grip must be covered with waterproof caps. Pressing the switches must not produce any abnormal sound.
3 - 4. Talk - Back Switch	The switch must have these three positions: ENG (alternate), PD (momentary), and neutral.
3 - 5. Factory Adjustment	The POT output adjustment switch, operation inversion switch, and talk - back switch must be factory - set to the OFF, top, and neutral positions respectively.



項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
5. SWITCHES (II)	
5 - 1. Extender Switch	The switch must have the 1X and 2X positions. (When the switch is set to the 2X position, IE/B must be connected to IE/COM.)
5 - 2. Zoom Track Switch	The switch must have the ON (LED lighted) and OFF (no display) positions.
5 - 3. Constant F Keep Switch	- When viewed from the grip side, the deeper position must be ON and the closer position must be OFF. - When the switch is set to the ON position, the zoom operation must stop at a point where a focal length and F - value curve stored in the lens beforehand and the actual F - value signal meet.
5 - 4. Quick Preset	When viewed from the grip side, the switch must have these three positions: the deepest position to turn on the function (alternate), the middle position to turn off the function, and the closest position to execute presetting (momentary).
5 - 5. Factory Adjustment	The extender switch must be factory - set to the 1X position. The zoom track switch, constant F keep switch, and quick preset switch must be factory - set to the OFF positions.
6. APPEARANCE	
6 - 1. Appearance	- The appearance standard of the television camera lens must be met. - Any obvious indentation or other damage must not be left.
6 - 2. Coating Color	- Main body (clamper section): Hammer net (5Y4.5/0.7) B (according to color chart) - Grip section: Plastic coating (PROTEIN PAINES), black (N1.5) B, no grain (according to color sample)



項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
7. CLAMPER	
7 - 1. Mounting	When the mounting lever is fastened, the Zoom Demand must be tightly fixed to the head of the main body (within a range of $\pm 90^\circ$ from the horizontal position) at the inner clip washer. There must be no play.
7 - 2. Clamp Section	- By fastening the clamp lever, a bar having a diameter of 23.85 to 28.4 mm must be able to be secured. There must be no play. - The inside diameter must be $\phi 28.4 \text{ mm}^{+0.05}_0$ - The clamp lever must be set to the loosest position.
7 - 3. Factory Adjustment	
8. CONNECTOR	
8 - 1. For Lens	The master key (the largest groove) must be directed toward the top face of the Demand.
9. PRODUCT CONFIGURATION	Zoom Demand main body : 1 Demand cable : 1 (For an S - order, the product configuration of the S - order must be applied, and the configuration described above must be ignored.)
10. CE MARKING AND Hyatt SEAL	The BC2 - 4843 - 1 CE marking and BC2 - 2255 Hyatt seal must be appended.
	

Parts Number	Q'ty	Description	Page	Remarks
BA0-7994-000 000	1	WASHER	2-1,2-2	
BA1-3393-000 000	1	CAP	2-1,2-2	
BA1-8597-000 000	1	SPACER	2-1,2-2	
BA1-9098-000 000	2	RUBBER	2-1,2-2	
BA2-2347-000 000	1	HOLDER	2-1,2-2	
BA2-2348-000 000	1	CAM	2-1,2-2	
BA2-2349-020 000	1	HOLDER	2-1,2-2	
BA2-2351-000 000	1	SPRING	2-1,2-2	
BA2-2352-020 000	1	WASHER	2-1,2-2	
BA2-2356-000 000	1	PIN	2-1,2-2	
BA2-2358-000 000	1	ROLLER	2-1,2-2	
BA2-2359-020 000	1	SCREW	2-1,2-2	
BA2-4547-000 000	1	TUBE	2-1,2-2	
BA2-4548-000 000	1	PLATE	2-1,2-2	
BA2-5475-020 000	1	CAP	2-2	
BC0-6880-020 000	1	SHAFT	2-1,2-2	
BC0-6881-000 000	2	SHAFT	2-1,2-2	
BC0-7197-040 000	1	THUMB RING	2-1,2-2	
BC1-0902-000 000	1	COVER	2-1,2-2	
BC1-0905-000 000	2	PUSH BUTTON	2-1	
BC1-0908-020 000	2	GUIDE	2-1,2-2	
BC1-7488-000 000	1	ORDER PLATE	2-1,2-2	
BC1-9467-000 000	1	HOLDER	2-1,2-2	
BC1-9470-000 000	1	LOCK SCREW	2-1,2-2	
BC2-2255-000 000	1	SEAL (HYATT)	2-1,2-2	
BC2-2933-000 000	1	PACKING	2-2	
BC2-2053-000 000	2	DIODE	2-2	
BC2-2054-000 000	1	BUTTON	2-2	
BC2-4348-030 000	1	PLATE	2-1,2-2	
BC2-4349-020 000	1	PLATE	2-1,2-2	
BC2-4350-050 000	1	BODY	2-1	

Parts Number	Q'ty	Description	Page	Remarks
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BC2-4353-050 000	1	BODY	2-1	
BC2-4354-040 000	1	BARRL	2-1,2-2	
BC2-4355-020 000	1	GRIP	2-1,2-2	
BC2-4356-000 000	1	BARREL	2-1,2-2	
BC2-4357-000 000	1	SHAFT	2-1,2-2	
BC2-4358-000 000	2	COVER	2-1,2-2	
BC2-4359-020 000	1	COUPLING	2-1,2-2	
BC2-4360-000 000	1	HOLDER	2-1,2-2	
BC2-4361-000 000	1	PLATE	2-1,2-2	
BC2-4362-000 000	1	PLATE	2-1,2-2	
BC2-4363-020 000	1	PLATE	2-1,2-2	
BC2-4364-020 000	3	PLATE	2-1,2-2	
BC2-4365-000 000	1	KNOB	2-1,2-2	
BC2-4366-000 000	1	KNOB	2-1,2-2	
BC2-4367-001 000	1	PLATE (Z)	2-1,2-2	
BC2-4367-002 000	1	PLATE (W)	2-1,2-2	
BC2-4367-003 000	1	PLATE (T)	2-1,2-2	
BC2-4368-020 000	1	HOLDER	2-1,2-2	
BC2-4369-000 000	1	LEAF SPRING	2-1,2-2	
BC2-4376-000 000	1	NAME PLATE	2-1,2-2	
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BC2-4683-030 000	1	GRIP	2-1	
BC2-4843-001 000	1	LABEL	2-1,2-2	
BC2-5709-000 000	1	BODY	2-2	
BC2-5710-000 020	1	BODY	2-2	
BC2-5711-000 000	1	GRIP	2-2	
BC2-5712-000 000	6	RING	2-2	
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BG2-4344-000 000	1	ZOOM AMP 2 PCB ASS'Y	2-1,2-2	
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BG2-4346-000 000	1	DIRECTION SWITCH BOARD ASS'Y	2-1,2-2	
BG2-4347-000 000	1	CURVE SWITCH BOARD ASS'Y	2-1,2-2	
BG2-4348-000 000	1	RETURN SWITCH BOARD ASS'Y	2-1,2-2	
BG2-4349-000 000	1	POTENTIOMETER UNIT	2-1,2-2	

Parts Number	Q'ty	Description	Page	Remarks
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BG2-4351-000 000	1	ADJ. TRIMMER UNIT (WIDE)	2-1,2-2	
BG2-4352-000 000	1	ADJ. TRIMMER UNIT (SPEED)	2-1,2-2	
BG2-4357-000 000	1	MIC SWITCH UNIT	2-1,2-2	
BG2-4723-000 000	1	SWITCH BOARD ASS'Y	2-2	
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BH3-0749-000 000	1	TOGGLE SWITCH	2-1,2-2	
BH3-9360-000 000	1	CAP, SWITCH	2-1,2-2	
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BH4-1249-000 003	1	CABLE (RED)	2-1,2-2	
BH4-1249-000 004	1	CABLE (YEL)	2-1,2-2	
BH4-1249-000 005	1	CABLE (GRN)	2-1,2-2	
BH4-1249-000 006	1	CABLE (BLU)	2-1,2-2	
BH4-1249-000 007	1	CABLE (PUR)	2-1,2-2	
BH4-1249-000 008	1	CABLE (GRY)	2-1,2-2	
BH4-1249-000 009	1	CABLE (WHT)	2-1,2-2	
BH4-1249-000 010	1	CABLE (BLK)	2-1,2-2	
BH6-1068-000 000	1	IC	2-1,2-2	
BH7-0806-000 000	1	RECEPTACLE	2-1,2-2	
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BH7-1222-000 000	1	CONNEXOR PRUG	2-1,2-2	
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VC5-8040-103 000	1	CAPACITOR	2-1,2-2	

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VC7-0630-100 000	2	CAPACITOR	2-1,2-2	
VC7-6730-106 000	1	CAPACITOR	2-1,2-2	
VC7-8730-226 000	1	CAPACITOR	2-1,2-2	
VC8-4040-106 000	1	CAPACITOR	2-1,2-2	
VC8-4440-227 000	1	CAPACITOR	2-1,2-2	
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VR5-7890-503 000	1	VARIABLE RESISTOR	2-1,2-2	
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VR7-2610-203 000	2	RESISTOR	2-1,2-2	
VR7-2610-273 000	2	RESISTOR	2-1,2-2	
VR7-2610-302 000	2	RESISTOR	2-1,2-2	
VR7-2610-303 000	2	RESISTOR	2-1,2-2	
VR7-2610-361 000	1	RESISTOR	2-1,2-2	
VR7-2610-432 000	2	RESISTOR	2-1,2-2	
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VR7-2610-474 000	1	RESISTOR	2-1,2-2	

Parts Number	Q'ty	Description	Page	Remarks
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VR7-2610-622 000	1	RESISTOR	2-1,2-2	
VR7-2610-821 000	1	RESISTOR	2-1,2-2	
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VS1-1201-008 000	1	PIN HEADER	2-1,2-2	
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Parts Number	Q'ty	Description	Page	Remarks
WA1-5842-000 000	1	DIODE	2-1,2-2	
WA1-5843-000 000	1	DIODE	2-1,2-2	
WA2-0759-000 000	1	TRANSISTOR	2-1,2-2	
WA3-5663-000 000	1	IC	2-1,2-2	
WA3-6865-000 000	2	IC	2-1,2-2	
WA3-8387-000 000	1	IC	2-1,2-2	
WA4-1248-000 000	3	IC	2-1,2-2	
WA4-5611-000 000	2	IC	2-1,2-2	
WA4-5661-000 000	2	IC	2-1,2-2	
WA4-5663-000 000	1	IC	2-1,2-2	
WA4-6398-000 000	1	IC	2-1,2-2	
WA4-6399-000 000	1	IC	2-1,2-2	
WA4-6454-000 000	1	IC	2-1,2-2	
WA4-6467-000 000	1	IC	2-1,2-2	
WC1-5057-000 000	1	TOGGLE SWITCH	2-1,2-2	
WC1-5058-000 000	1	TOGGLE SWITCH	2-1,2-2	
WC1-5059-000 000	1	TOGGLE SWITCH	2-1,2-2	
WC1-5061-000 000	1	TOGGLE SWITCH	2-1,2-2	
WC2-5046-000 000	2	PUSH SWITCH	2-1,2-2	
WC8-5110-000 000	1	DIP SWITCH	2-1,2-2	
WG1-0540-000 000	1	LED	2-1,2-2	
WG1-5179-000 000	1	LED	2-2	
WG8-5306-000 000	2	IC	2-1,2-2	
WK2-5200-000 000	1	OSCILLATOR	2-1,2-2	
WK2-5636-000 000	1	OSCILLATOR	2-1,2-2	

Parts Number	Q'ty	Description	Page	Remarks
WS3-1309-000 000	80	TERMINAL	2-1,2-2	
WS3-5190-000 000	18	CONTACT	2-1,2-2	
WS3-5191-000 000	18	CONTACT	2-1,2-2	
WT1-5128-000 000	15	CHECK PIN	2-1,2-2	
XG2-6017-603 000	1	BALL BEARING	2-1,2-2	
XG3-4007-253 000	2	BALL BEARING	2-1,2-2	
XG3-6012-403 000	1	BALL BEARING	2-1,2-2	
XZ1-1260-705 000	1	SPACER	2-1,2-2	
X62-6705-000 000	1	LUG TERMINAL	2-1,2-2	
Y62-2053-000 000	1	IC	2-1,2-2	

Issued in Nov. 1996

PARTS CATALOG

FOCUS DEMAND

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INDEX	3 – 3

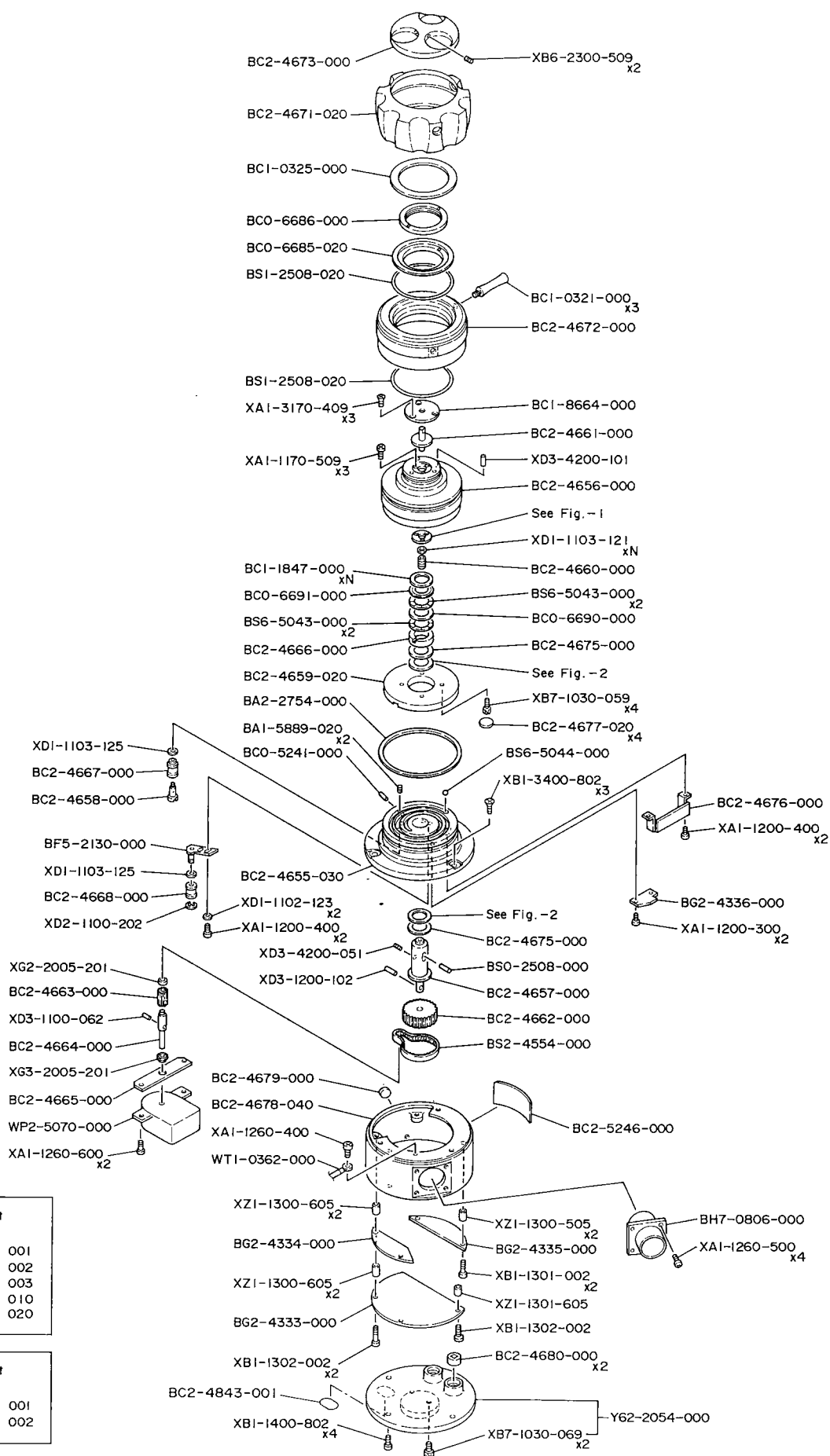


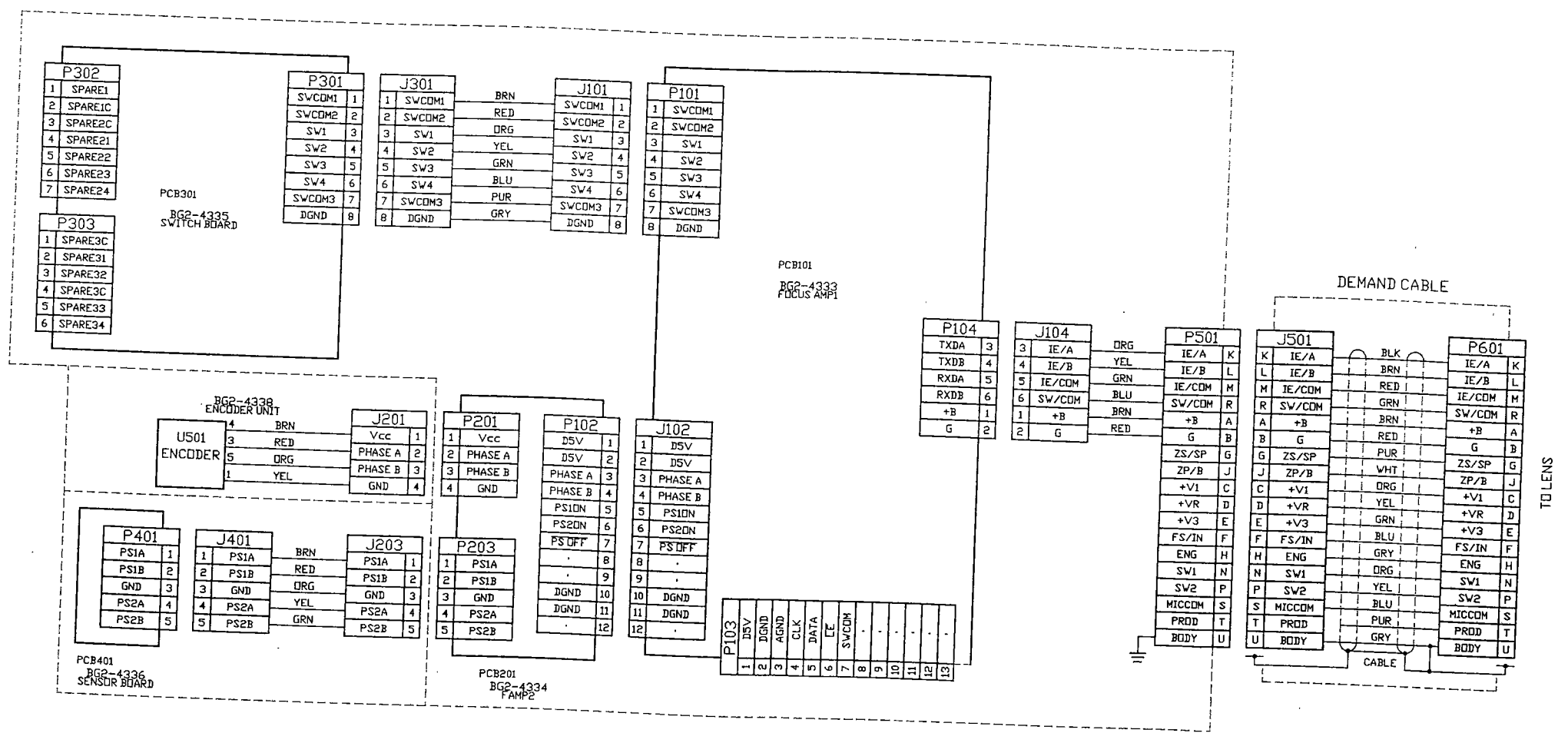
Fig. -1

$t = 0.01$	BC2-4674-020	001
$t = 0.02$	BC2-4674-020	002
$t = 0.03$	BC2-4674-020	003
$t = 0.10$	BC2-4674-020	010
$t = 0.20$	BC2-4674-020	020

Fig. -2

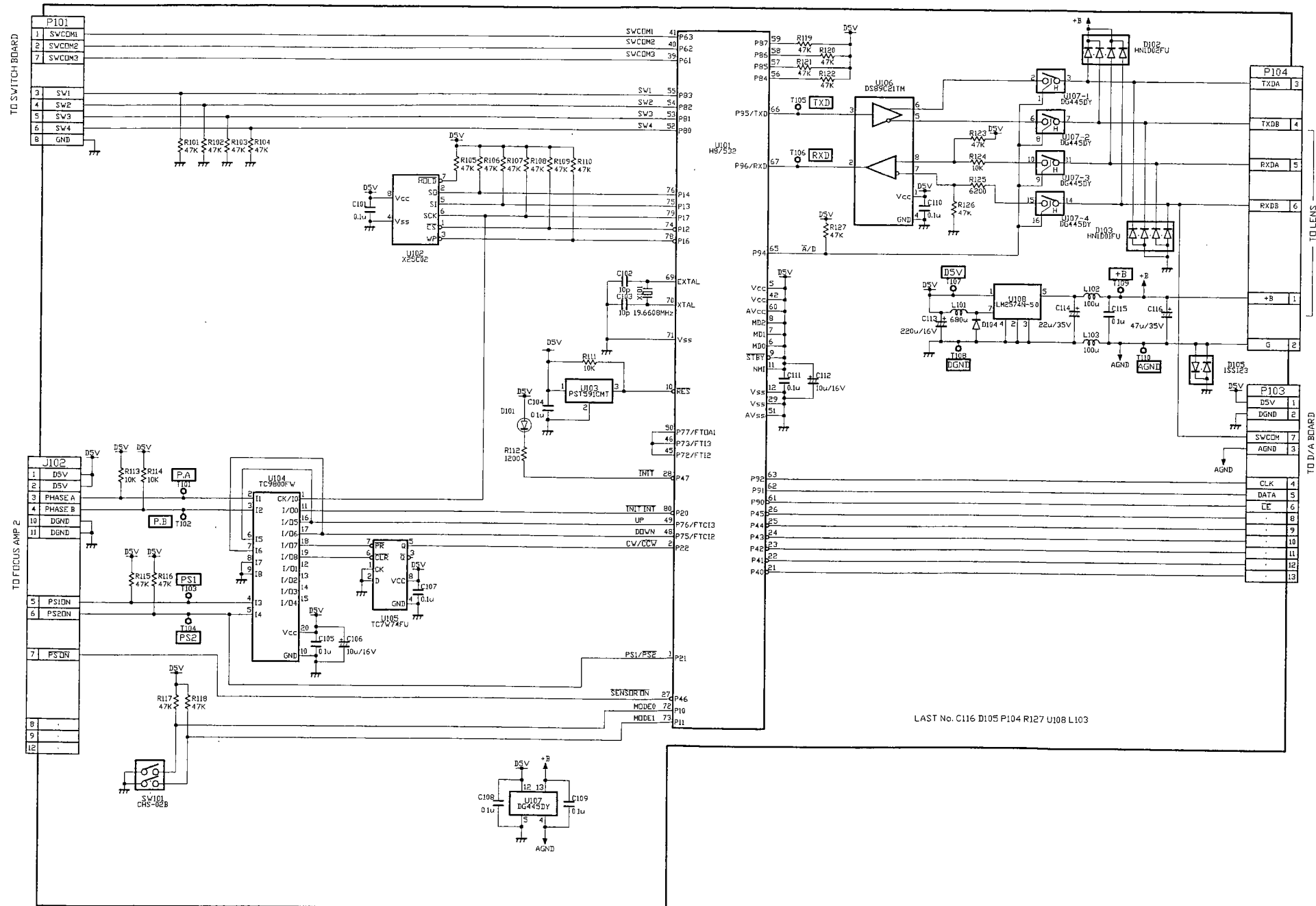
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$t = 0.10$	BS4-7616-000	002

FOCUS DEMAND FDJ-D01
GENERAL CIRCUIT DIAGRAM



Symbol	Parts No.	Dimension	Description
PCB101	BG2-4333-000	000	Focus Amp1 P. C. B
PCB201	BG2-4334-000	000	Focus Amp2 P. C. B
PCB301	BG2-4335-000	000	Switch Board Unit
PCB401	BG2-4336-000	000	Senser Board Unit
U501	WP2-5070-000	000	Rotary Encoder
	(BG2-4338-000	000	Rotary Encoder Unit W/Connector)
P101	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P102	VS1-5469-012	000	Housing (MOLEX 52465-1291)
P103	VS1-1201-013	000	Pin Header (MOLEX 53047-1310)
P104	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P201	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P203	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
P301	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P302	VS1-1201-007	000	Pin Header (MOLEX 53047-0710)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P401	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
P501	BH7-0806-000	000	Receptacle (BENDIX PT02E-14-18P)
P601	BH7-1221-000	000	Connector (BENDEX PT05A-14-18P)
J101	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J101)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J102	VS1-5653-012	000	Connector (MOLEX 53364-1291)
J201	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J201)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J203	VS3-0320-005	000	Socket Housing (MOLEX 51021-0500)
(J203)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J301	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J301)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J401	VS3-0320-005	000	Socket Housing (MOLEX 51021-0500)
(J401)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J501	BH7-1222-000	000	Connector (BENDEX PT05A-14-18S)
CABLE	BH4-2792-000	000	Cable (HIRAKAWA 2464-SR-VSV-18x28AWG-7/013)

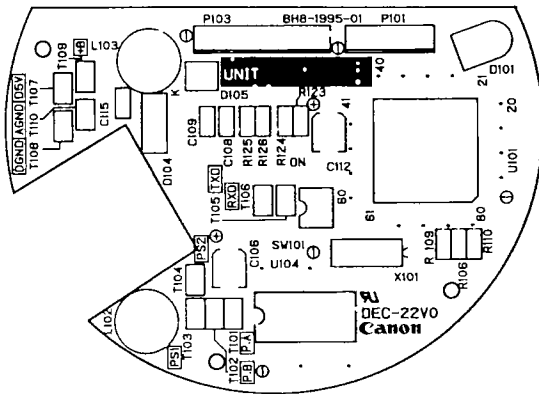
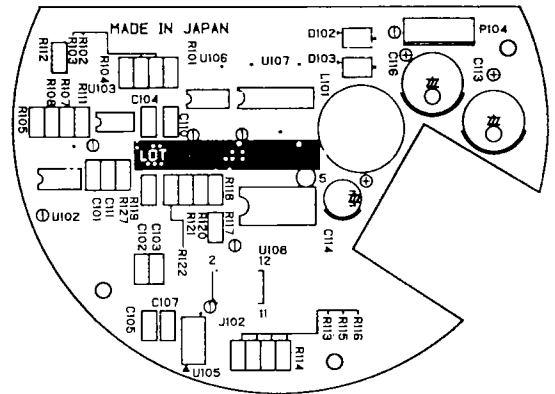
FOCUS AMP-1 P.C.B. for FDJ-D01 CIRCUIT DIAGRAM



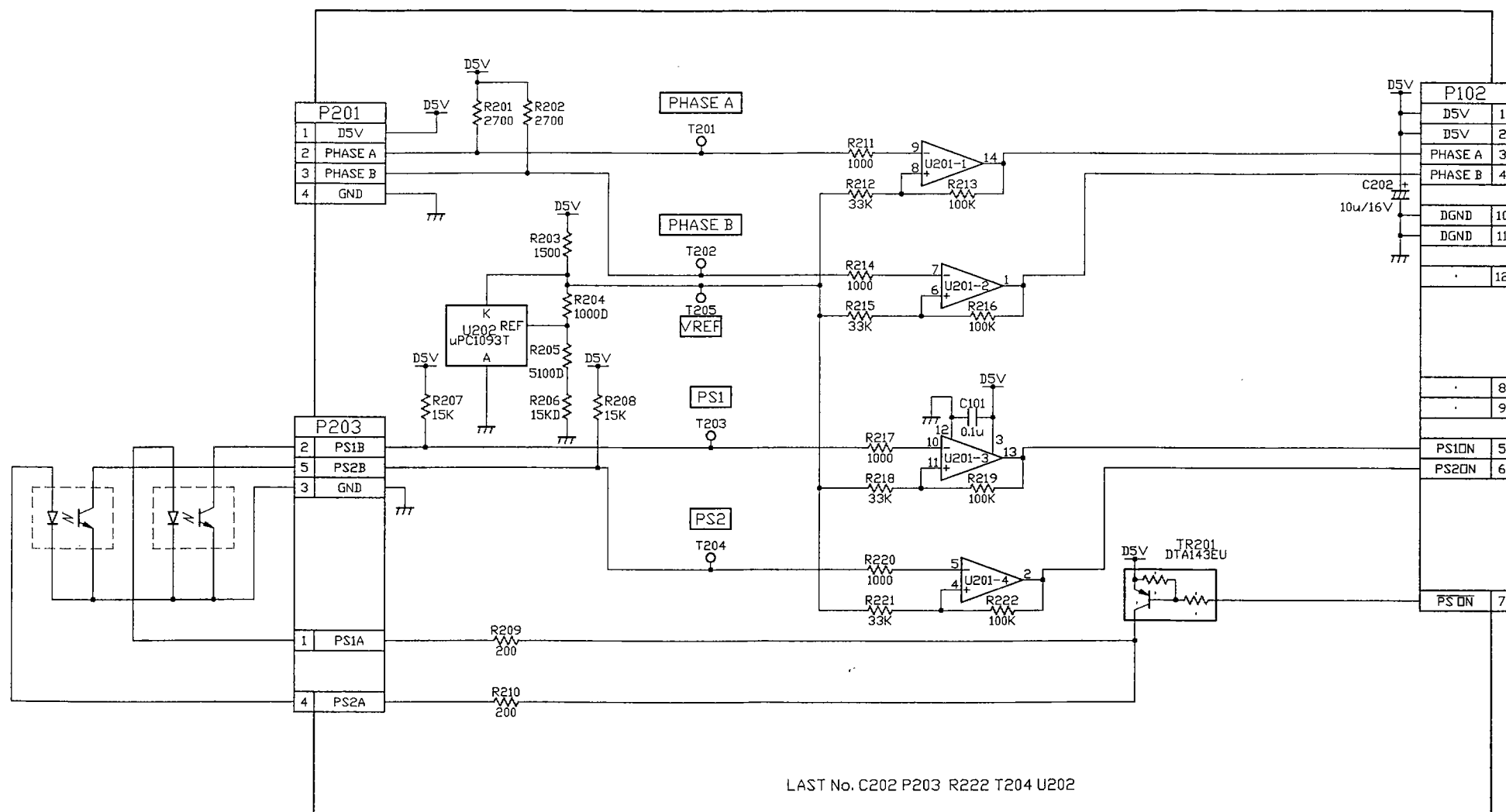
Symbol	Parts No.	Dimension	Description
U101	Y62-2056-000	000	CPU (HITACHI HD6475328F 10MHz)
U102	WA3-8387-000	000	Eeprom (ZAIKO X25C02SI)
U103	WA4-5663-000	000	Reset IC (MITSUMI PST591CMT)
U104	Y62-2057-000	000	PLD (TOSHIBA TC9800FW)
U105	WA3-7692-000	000	D Flip Flop (TOSHIBA TC7W74FU)
U106	WA4-6454-000	000	Sireal Interface (N.S DS89C21TM)
U107	WA4-6401-000	000	Analog SW (SILICONIX DG445DY)
U108	WA4-6399-000	000	Regulator IC (N.S LM2574-N5)
D101	WG1-5258-000	000	LED (SHARP GL5UR3K1)
D102	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D103	WA1-5842-000	000	Diode (TOSHIBA HN1D01FU)
D104	WA1-5815-000	000	Schottky Diode (TOSHIBA U1FWJ44N)
D105	WA1-0422-000	000	Diode (NEC 1SS123)
P101	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P103	VS1-1201-013	000	Pin Header (MOLEX 53047-1310)
P104	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
J102	VS1-5653-012	000	Connector (MOLEX 53364-1291)
C101	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C102	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH100K50)
C103	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH00K50)
C104	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C105	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C106	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C107	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C108	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C109	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C110	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C111	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C112	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C113	VC8-4440-227	000	AL Electrolytic Capacitor (NICHICON UPS1C221MPH)
C114	VC8-4450-226	000	AL Electrolytic Capacitor (NICHICON UPS1V220MDH)
C115	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)

Symbol	Parts No.	Dimension	Description
C116	VC8-4460-107	000	AL Electrolytic Capacitor (NICHICON UPSIV101MPH)
R101	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R102	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R103	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R104	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R105	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R106	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R107	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R108	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R109	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R110	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R111	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R112	VR7-2610-122	000	Tip Resistor (TAMA CRG10G122J)
R113	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R114	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R115	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R116	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R117	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R118	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R119	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R120	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R121	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R122	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R123	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R124	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R125	VR7-2610-622	000	Tip Resistor (TAMA CRG10G622J)
R126	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R127	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
L101	VL5-0420-681	000	Choke Coil (TDK TSL1110-681KR38)
L102	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)
L103	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)
X101	WK2-5200-000	000	Cristal Oscillator (EPSON CA301 19.6608MHz)

Symbol	Parts No.	Dimension	Description
T101	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T102	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T103	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T104	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T105	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T106	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T107	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T108	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T109	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T110	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
PCB101	BG2-4333-000	000	Focus Ampl P. C. B
SW101	WC8-5110-000	000	DIP Switch (COPAL CHS-02B)

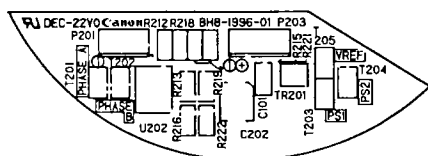
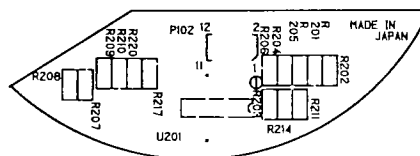
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(SOLDERED FACE)

FOCUS AMP-2 P.C.B. CIRCUIT DIAGRAM



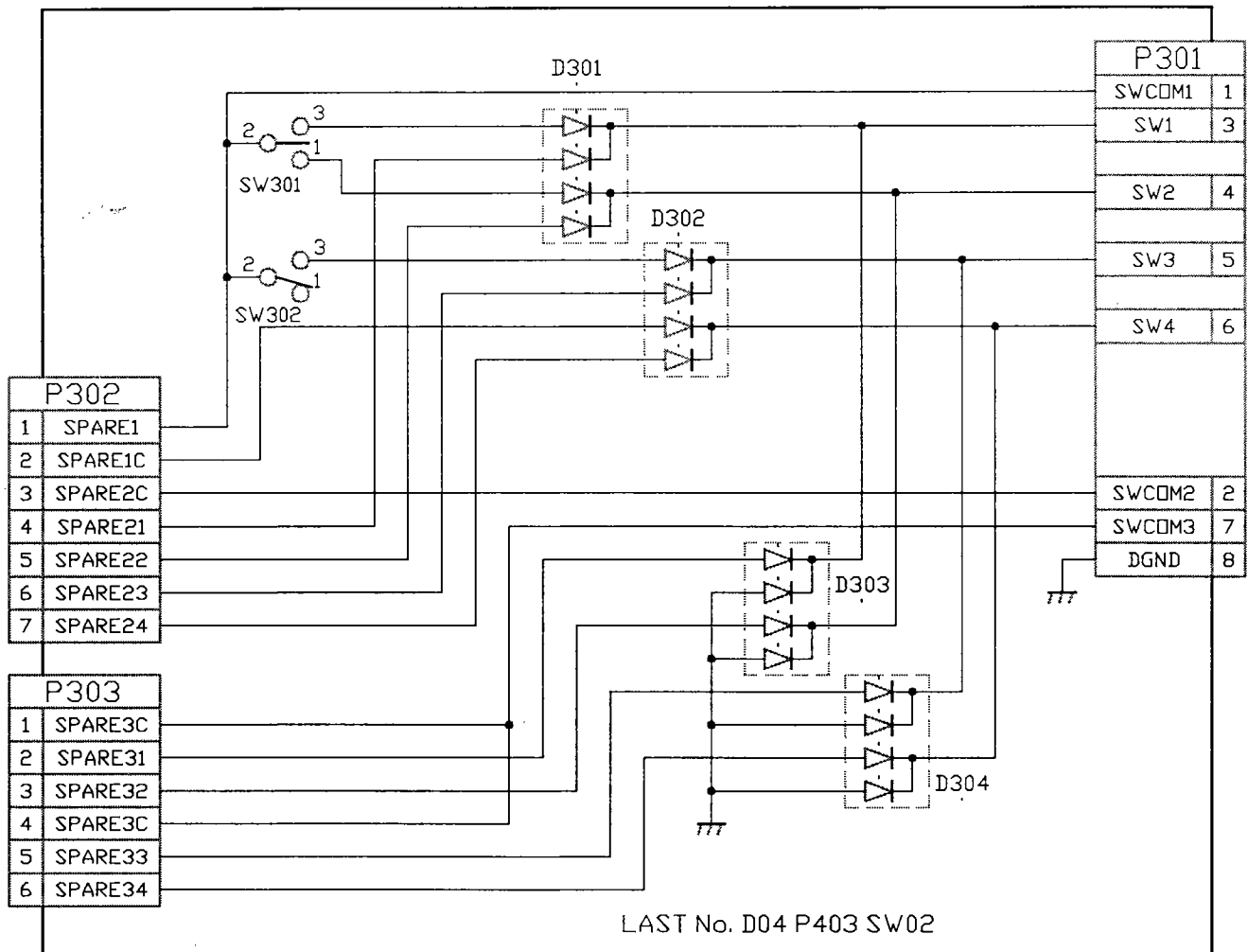
Symbol	Parts No.	Dimension	Description
U201	WA4-6347-000	000	Comparator (X.S LP339M)
U202	WA4-5385-000	000	Regulator (NEC μ PC1093T)
P201	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P102	VS1-5469-012	000	Housing (MOLEX 52465-1291)
P203	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
TR201	WA2-5220-00	000	Digital Transistor (ROHM DTA143EU)
C101	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C202	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
R201	VR7-2610-272	000	Tip Resistor (TAMA CRG10G272J)
R202	VR7-2610-272	000	Tip Resistor (TAMA CRG10G272J)
R203	VR7-2610-152	000	Tip Resistor (TAMA CRG10G152J)
R204	VR7-3040-102	000	Tip Resistor (SSM RR1220P-102-D)
R205	VR7-3040-512	000	Tip Resistor (SSM RR1220P-512-D)
R206	VR7-3040-203	000	Tip Resistor (SSM RR1220P-203-D)
R207	VR7-2610-153	000	Tip Resistor (TAMA CRG10G153J)
R208	VR7-2610-153	000	Tip Resistor (TAMA CRG10G153J)
R209	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R210	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R211	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R212	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R213	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R214	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R215	VR7-2610-152	000	Tip Resistor (TAMA CRG10G152J)
R216	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R217	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R218	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R219	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R220	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R221	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R222	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
T201	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)

Symbol	Parts No.	Dimension	Description
T202	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T203	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T204	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T205	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
PCB201	BBG2-4334-000	000	Focus Amp 2 P. C. B

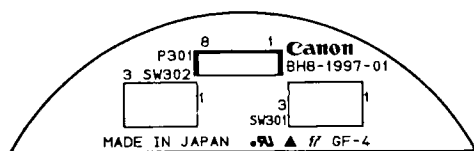
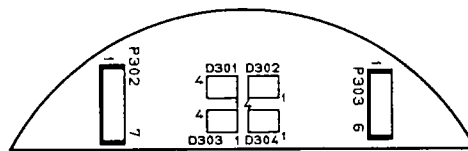
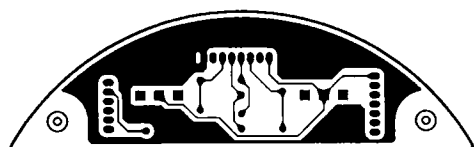
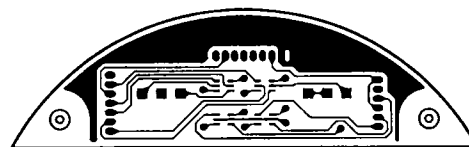
PARTS LAYOUT
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(SOLDERED FACE)

SWITCH BORAD CIRCUIT DIAGRAM

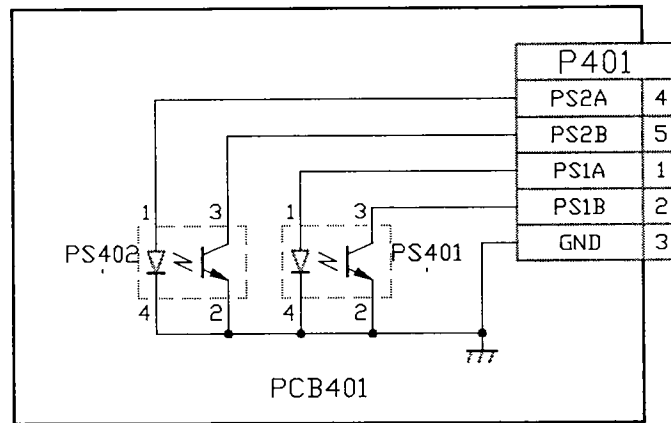
3-1-5 1/3



Symbol	Parts No.	Dimension	Description
D301	WG1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D302	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D303	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D304	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
P301	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P302	VS1-1201-007	000	Pin Header (MOLEX 53047-0710)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
SW301	WC1-5125-000	000	Toggle Switch (NKK A-13JP)
SW302	WC1-5124-000	000	Toggle Switch (NKK A-12JP)
PCB301	BG2-4335-000	000	Switch Board

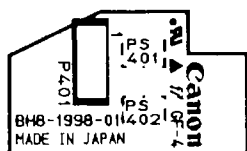
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(PARTS FACE)PARTS LAYOUT
(SOLDERED FACE)PATTERN
(PARTS FACE)PATTERN
(SOLDERED FACE)

SENSOR BOARD CIRCUIT DIAGRAM

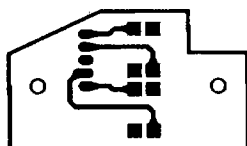


Symbol	Parts No.	Dimension	Description
P401	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
PS401	WG8-5276-000	000	Photo Sensor (SHARP GP2S40J)
PS402	WG8-5276-000	000	Photo Sensor (SHARP GP2S40J)
PCB301	BG2-4335-000	000	Switch Board

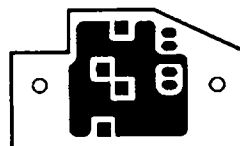
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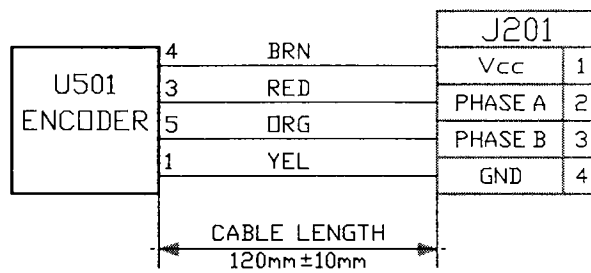
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(PARTS FACE)



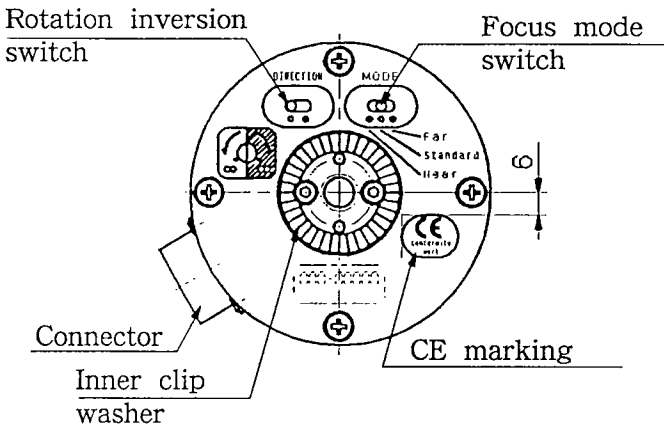
PATTERN
(SOLDERED FACE)



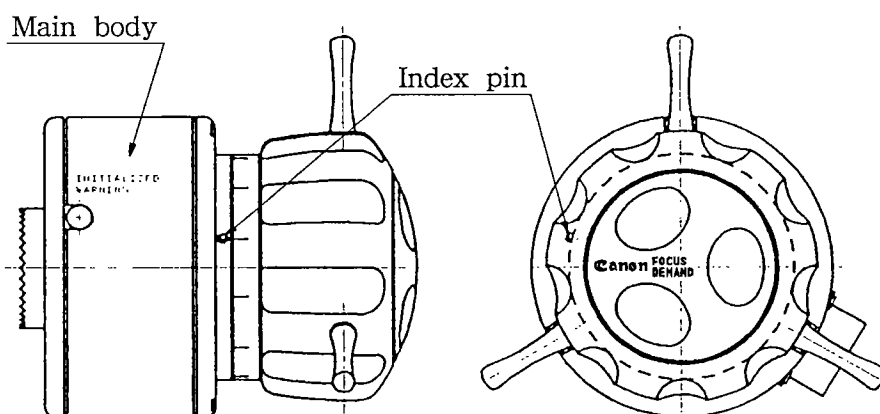
ENCODER UNIT



Symbol	Parts No.	Dimension	Description
U501	WP2-5070-00	000	Rotary Encoder (YHP HEDS-5600101)
J201	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J201)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
	BG2-4338-000	000	Potary Encoder Uuit (W/Connector)

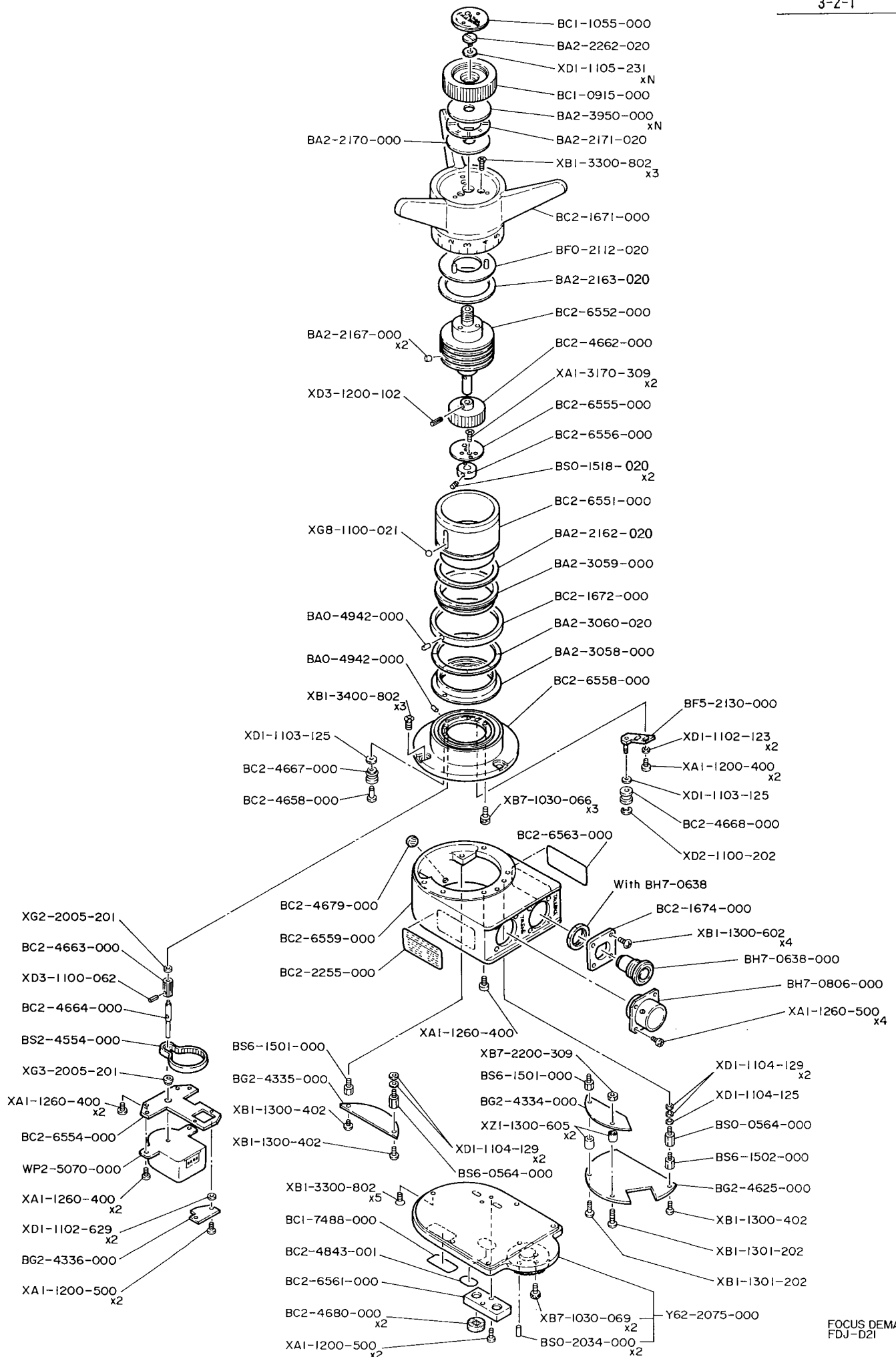
項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
[Mechanical performance] ※ Applicable model 1. CONNECTOR 2. SWITCHES 2 - 1. Rotation Inversion Switch 2 - 2. Focus Mode Switch 2 - 3. Factory Adjustment	This standard applies to a Focus Demand FDJ - D01 of control arm clamp type. - The master key (the largest groove) must be directed toward the display (TO LENS). - The direction of infinite rotation of the grip must be able to be switched between clockwise and counterclockwise. - The mode of fine focus adjustment must be able to be switched among Far, Standard, and Near. - The rotation inversion switch must be factory - set to infinite counterclockwise rotation of the grip (white point). The focus mode switch must be factory - set to Standard (white point).  The diagram shows a circular control arm clamp with several components labeled: 'Rotation inversion switch' (top left), 'Focus mode switch' (top right), 'Connector' (bottom left), 'Inner clip washer' (bottom left), and 'CE marking' (bottom right). The focus mode switch has three positions: 'Far', 'Standard', and 'Near'. The rotation inversion switch has two positions: 'Clockwise' and 'Counterclockwise'. The CE marking is a circle with 'CE' inside. The connector is a small rectangular piece. The inner clip washer is a small circular piece. The diagram also shows a master key (the largest groove) directed toward the display (TO LENS).

項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
3. MOUNTING	
3 - 1. Mounting of the Main Body	The gripsection and the main body must be tightly connected, with the index pin aligned as shown in the figure. There must be no play.
3 - 2. Inner Clip Washer	The clamber (CR30 type) must be securely fixed with the inner clip washer. There must be no play.
4. APPEARANCE, COATING	
4 - 1. Appearance	The appearance standard of the television camera lens must be met.
4 - 2. Coating Color	- Main body : Art gray7.5 (2.5Y7.5/0.7) B (according to color sample) - Torquut adjustment : LOSF1 (N1.5) B knob (according to color sample) - Index point : Dark grayLOF1 (2.5Y4.5/1.0) B (according to color sample)
5. CE MARKING AND Hyatt SEAL	The BC2 - 4843 - 1 CE marking and BC2 - 2255 Hyatt seal must be appended.

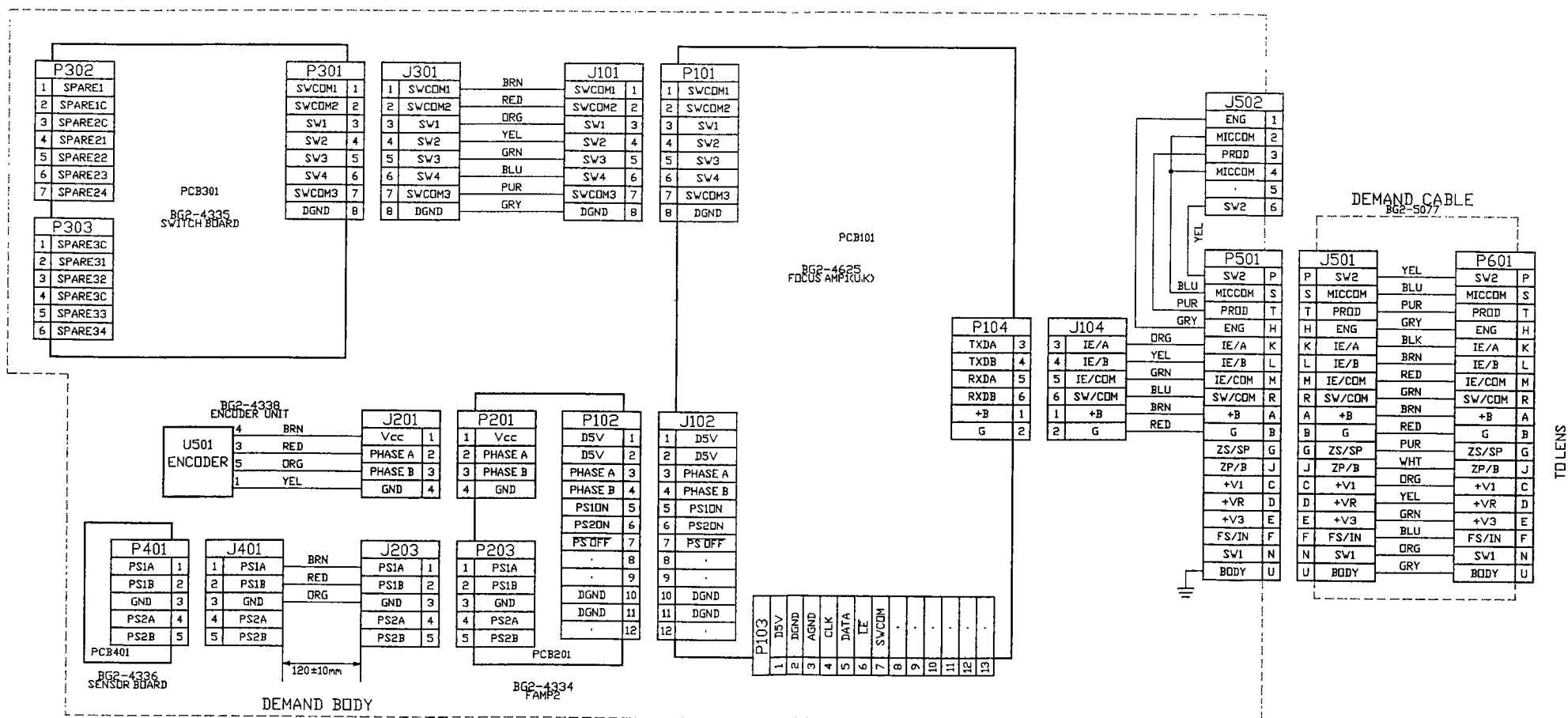


項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
6.GRIP	
6 - 1 Operation	• Rotate the grip clockwise and counterclockwise. The grip must rotate smoothly without unevenness, catches, and other problems.
6 - 2 Number of Turns in the Entire Area	• 2.5 turns
6 - 3 Rotation Direction	• Infinite in the clockwise direction when viewed from the grip (Standard: See the description of the toggle switch.)
6 - 4 Slip Torque	• The grip must slip with a torque of 2400 to 3200 gcm at both the infinite end and near end.
6 - 5 Torque Adjustment	• Rotate the torque adjustment control located at the end of the grip clockwise. The torque must be increased. When the control is rotated counterclockwise up to the extreme position, the torque must be $200 + 150$ gcm. At the extreme position in the clockwise direction, the torque must be $1100 + 150$ gcm.
6 - 6 Index Ring	• At the near end (extreme position in the counterclockwise direction), the index pin must be aligned with the yellowish orange marking on the grip.

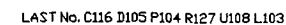
項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
6 - 7 Handle	The three handles must be attached firmly to the grip ring covering the grip.
6 - 8 Factory Settings	The torque adjustment control is set to the extreme position in the counterclockwise. The grip is set to the near end (where the yellowish orange marking is aligned with the index pin.) The diagrams illustrate the factory settings for the grip. The left diagram shows a side view of the grip with an index pin pointing to a yellowish orange marking on the grip ring. The right diagram shows a top-down view of the grip with labels for the handle, grip, and torque adjustment control. The torque adjustment control is labeled 'Canon FOCUS BEHIND'.



FOCUS DEMAND FDJ-D21 GENERAL CIRCUIT DIAGRAM



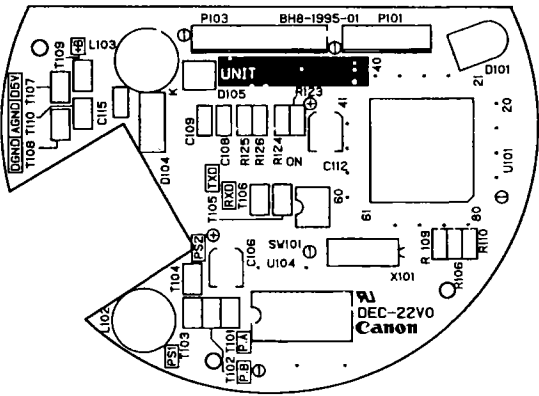
Symbol	Parts No.	Dimension	Description
PCB101	BG2-4625-000	000	Focus Ampl P. C. B
PCB201	BG2-4334-000	000	Focus Amp2 P. C. B
PCB301	BG2-4335-000	000	Switch Board Unit
PCB401	BG2-4336-000	000	Senser Board Unit
U501	WP2-5070-000	000	Rotary Encoder
	(BG2-4338-000)	000	Rotary Encoder Unit W/Connector)
P101	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P102	VS1-5469-012	000	Housing (MOLEX 52465-1291)
P103	VS1-1201-013	000	Pin Header (MOLEX 53047-1310)
P104	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P201	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P203	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
P301	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P302	VS1-1201-007	000	Pin Header (MOLEX 53047-0710)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
P401	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
P501	BH7-0806-000	000	Receptacle (BENDIX PT02E-14-18P)
P601	BH7-1221-000	000	Connector (BENDEX PT05A-14-18P)
J101	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J101)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J102	VS1-5653-012	000	Connector (MOLEX 53364-1291)
J201	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J201)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J203	VS3-0320-005	000	Socket Housing (MOLEX 51021-0500)
(J203)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J301	VS3-0320-008	000	Socket Housing (MOLEX 51021-0800)
(J301)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J401	VS3-0320-005	000	Socket Housing (MOLEX 51021-0500)
(J401)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
J501	BH7-1222-000	000	Connector (BENDEX PT05A-14-18S)
J502	BH7-0638-000	000	Receptacle (LEMO EGG2B308CNL)
CABLE	BH4-2792-000	000	Cable (HIRAKAWA 2464-SR-VSV-18x28AWG-7/013)



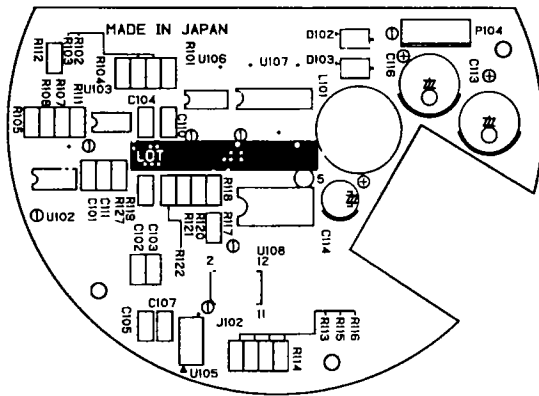
Symbol	Parts No.	Dimension	Description
U101	Y62-2076-000	000	CPU (HITACHI HD6475328F 10MHz)
U102	WA3-8387-000	000	Eeprom (ZAIKO X25C02SI)
U103	WA4-5663-000	000	Reset IC (MITSUMI PST591CMT)
U104	Y62-2057-000	000	PLD (TOSHIBA TC9800FW)
U105	WA3-7692-000	000	D Flip Flop (TOSHIBA TC7W74FU)
U106	WA4-6454-000	000	Sireal Interface (N.S DS89C21TM)
U107	WA4-6401-000	000	Analog SW (SILICONIX DG445DY)
U108	WA4-6399-000	000	Regulator IC (N.S LM2574-N5)
D101	WG1-5258-000	000	LED (SHARP GL5UR3K1)
D102	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D103	WA1-5842-000	000	Diode (TOSHIBA HN1D01FU)
D104	WA1-5815-000	000	Schottky Diode (TOSHIBA U1FWJ44N)
D105	WA1-0422-000	000	Diode (NEC 1SS123)
P101	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P103	VS1-1201-013	000	Pin Header (MOLEX 53047-1310)
P104	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
J102	VS1-5653-012	000	Connector (MOLEX 53364-1291)
C101	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C102	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH100K50)
C103	VC7-0630-100	000	Ceramic Capacitor (MURATA GRM40CH00K50)
C104	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C105	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C106	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C107	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C108	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C109	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C110	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C111	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C112	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
C113	VC8-4440-227	000	AL Electrolytic Capacitor (NICHICON UPS1C221MPH)
C114	VC8-4450-226	000	AL Electrolytic Capacitor (NICHICON UPS1V220MDH)
C115	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)

Symbol	Parts No.	Dimension	Description
C116	VC8-4460-107	000	AL Electrolytic Capacitor (NICHICON UPS1V101MPH)
R101	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R102	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R103	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R104	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R105	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R106	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R107	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R108	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R109	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R110	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R111	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R112	VR7-2610-122	000	Tip Resistor (TAMA CRG10G122J)
R113	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R114	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R115	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R116	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R117	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R118	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R119	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R120	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R121	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R122	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R123	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R124	VR7-2610-103	000	Tip Resistor (TAMA CRG10G103J)
R125	VR7-2610-622	000	Tip Resistor (TAMA CRG10G622J)
R126	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
R127	VR7-2610-473	000	Tip Resistor (TAMA CRG10G473J)
L101	VL5-0420-681	000	Choke Coil (TDK TSL1110-681KR38)
L102	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)
L103	VL7-0210-101	000	Choke Coil (TDK TSL0807-101KR75)
X101	WK2-5200-000	000	Cristal Oscillator (EPSON CA301 19.6608MHz)

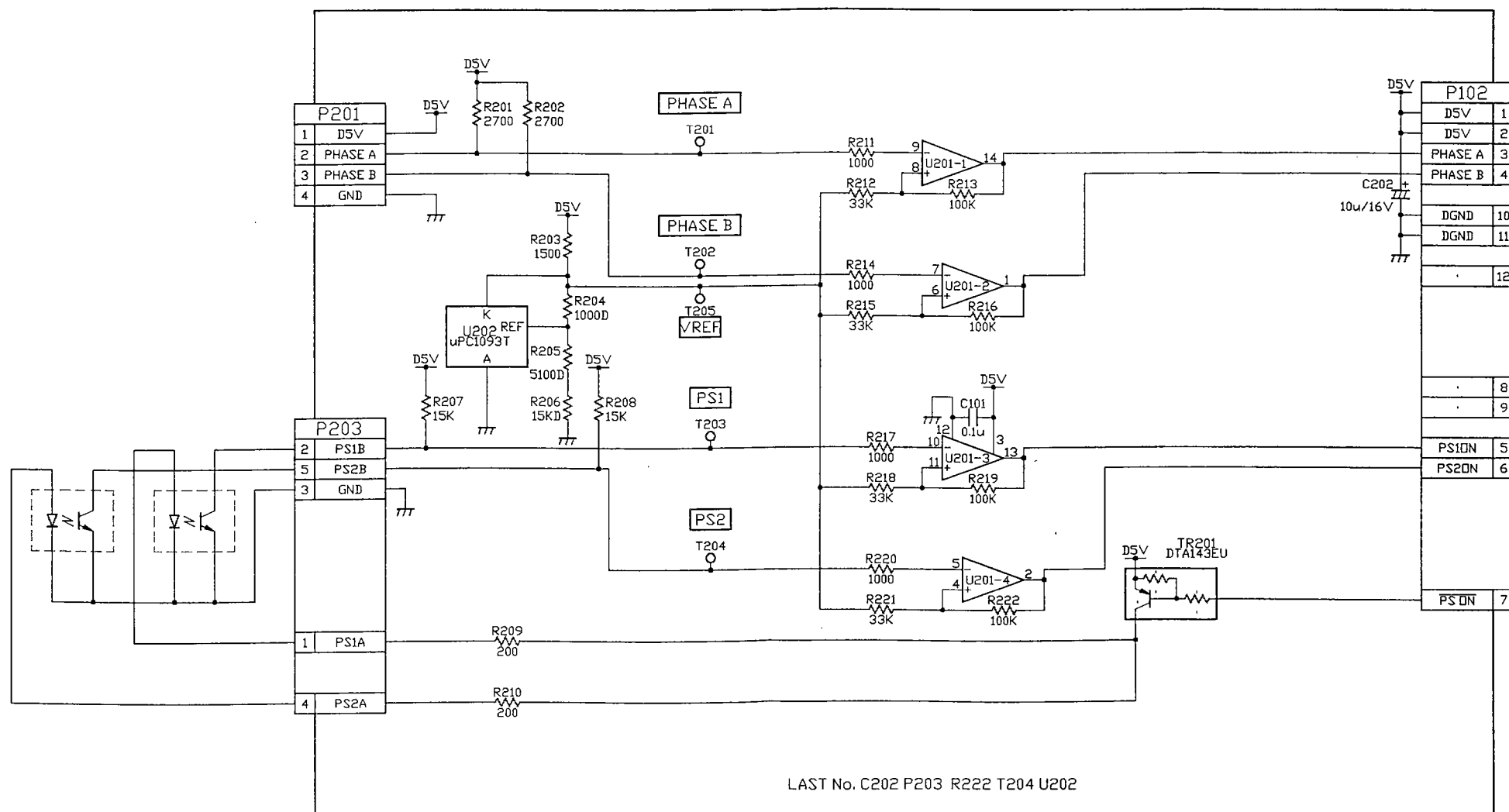
Symbol	Parts No.	Dimension	Description
T101	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T102	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T103	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T104	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T105	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T106	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T107	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T108	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T109	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T110	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
PCB101	BG2-4625-000	000	Focus Ampl P. C. B
SW101	WC8-5110-000	000	DIP Switch (COPAL CHS-02B)

PARTS LAYOUT
(PARTS FACE)

PARTS LAYOUT (SOLDERED FACE)

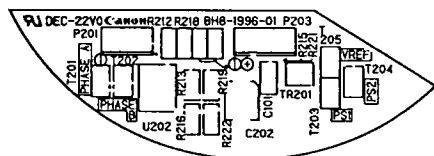
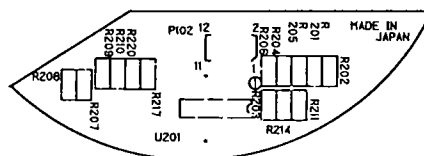


FOCUS AMP-2 P.C.B. CIRCUIT DIAGRAM

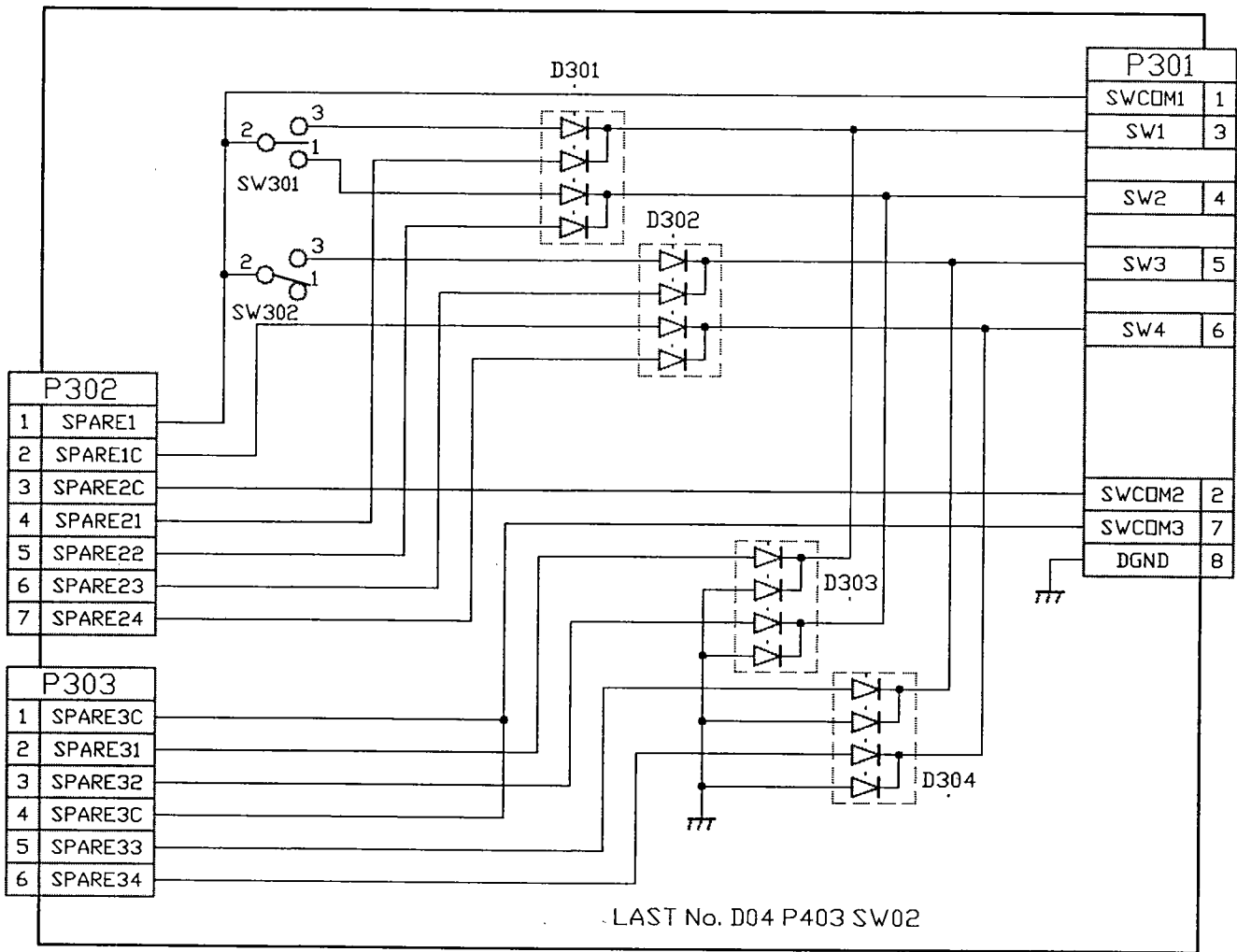


Symbol	Parts No.	Dimension	Description
U201	WA4-6347-000	000	Comparator (N. S LP339M)
U202	WA4-5385-000	000	Regulator (NEC μ PC1093T)
P201	VS1-1201-004	000	Pin Header (MOLEX 53047-0410)
P102	VS1-5469-012	000	Housing (MOLEX 52465-1291)
P203	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
TR201	WA2-5220-00	000	Digital Transistor (ROHM DTA143EU)
C101	VC5-8040-104	000	Ceramic Capacitor (MURATA GRM40F104Z50)
C202	VC7-6730-106	000	AL Electrolytic Capacitor (NICHICON UWX1C100MCR)
R201	VR7-2610-272	000	Tip Resistor (TAMA CRG10G272J)
R202	VR7-2610-272	000	Tip Resistor (TAMA CRG10G272J)
R203	VR7-2610-152	000	Tip Resistor (TAMA CRG10G152J)
R204	VR7-3040-102	000	Tip Resistor (SSM RR1220P-102-D)
R205	VR7-3040-512	000	Tip Resistor (SSM RR1220P-512-D)
R206	VR7-3040-203	000	Tip Resistor (SSM RR1220P-203-D)
R207	VR7-2610-153	000	Tip Resistor (TAMA CRG10G153J)
R208	VR7-2610-153	000	Tip Resistor (TAMA CRG10G153J)
R209	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R210	VR7-2610-201	000	Tip Resistor (TAMA CRG10G201J)
R211	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R212	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R213	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R214	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R215	VR7-2610-152	000	Tip Resistor (TAMA CRG10G152J)
R216	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R217	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R218	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R219	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
R220	VR7-2610-102	000	Tip Resistor (TAMA CRG10G102J)
R221	VR7-2610-333	000	Tip Resistor (TAMA CRG10G333J)
R222	VR7-2610-104	000	Tip Resistor (TAMA CRG10G104J)
T201	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)

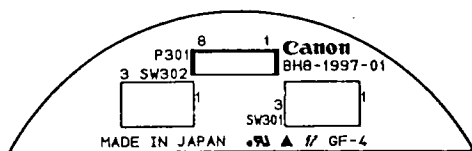
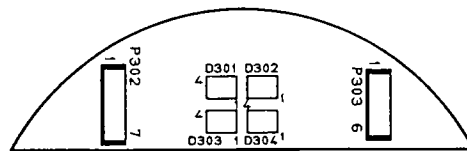
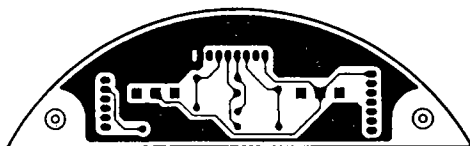
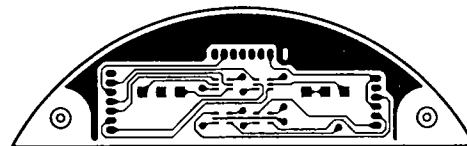
Symbol	Parts No.	Dimension	Description
T202	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T203	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T204	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
T205	WT1-5128-000	000	Check Pin (MAC8 HK-1-G)
PCB201	BBG2-4334-000	000	Focus Amp 2 P. C. B

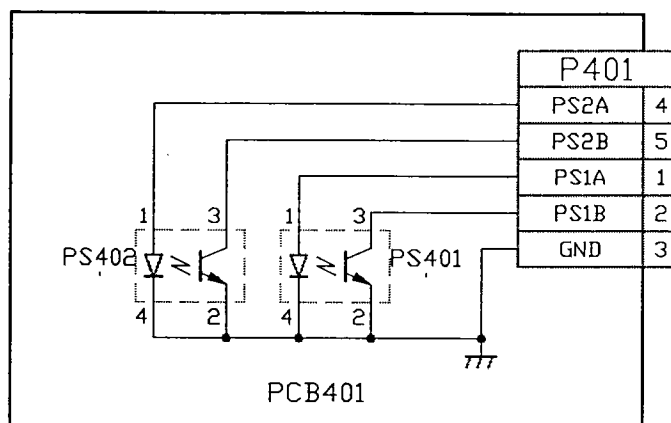
PARTS LAYOUT
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(SOLDERED FACE)

SWITCH BORAD CIRCUIT DIAGRAM



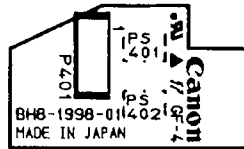
Symbol	Parts No.	Dimension	Description
D301	WG1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D302	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D303	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
D304	WA1-5276-000	000	Diode (TOSHIBA HN1D02FU)
P301	VS1-1201-008	000	Pin Header (MOLEX 53047-0810)
P302	VS1-1201-007	000	Pin Header (MOLEX 53047-0710)
P303	VS1-1201-006	000	Pin Header (MOLEX 53047-0610)
SW301	WC1-5125-000	000	Toggle Switch (NKK A-13JP)
SW302	WC1-5124-000	000	Toggle Switch (NKK A-12JP)
PCB301	BG2-4335-000	000	Switch Board

PARTS LAYOUT
(PARTS FACE)PARTS LAYOUT
(SOLDERED FACE)PATTERN
(PARTS FACE)PATTERN
(SOLDERED FACE)

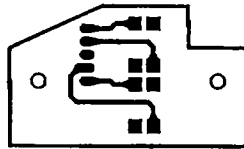
SENSOR BOARD
CIRCUIT DIAGRAM

Symbol	Parts No.	Dimension	Description
P401	VS1-1201-005	000	Pin Header (MOLEX 53047-0510)
PS401	WG8-5276-000	000	Photo Sensor (SHARP GP2S40J)
PS402	WG8-5276-000	000	Photo Sensor (SHARP GP2S40J)
PCB301	BG2-4335-000	000	Switch Board

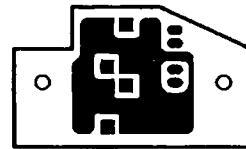
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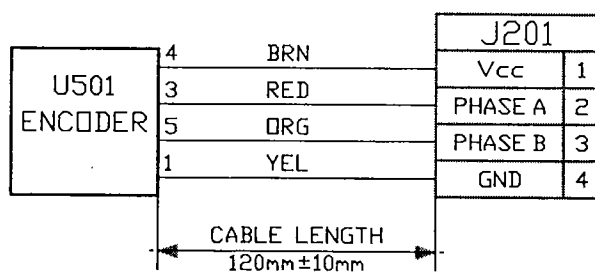
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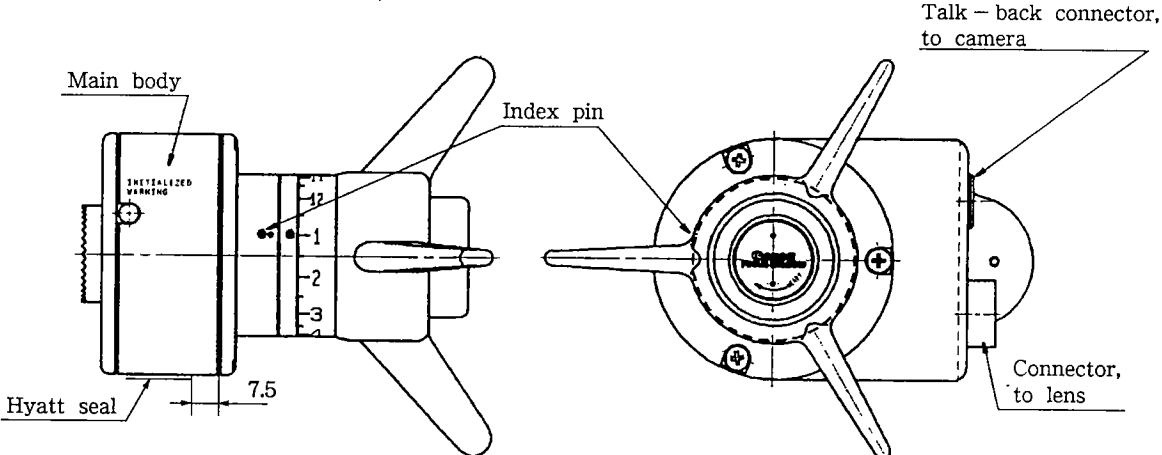


ENCODER UNIT

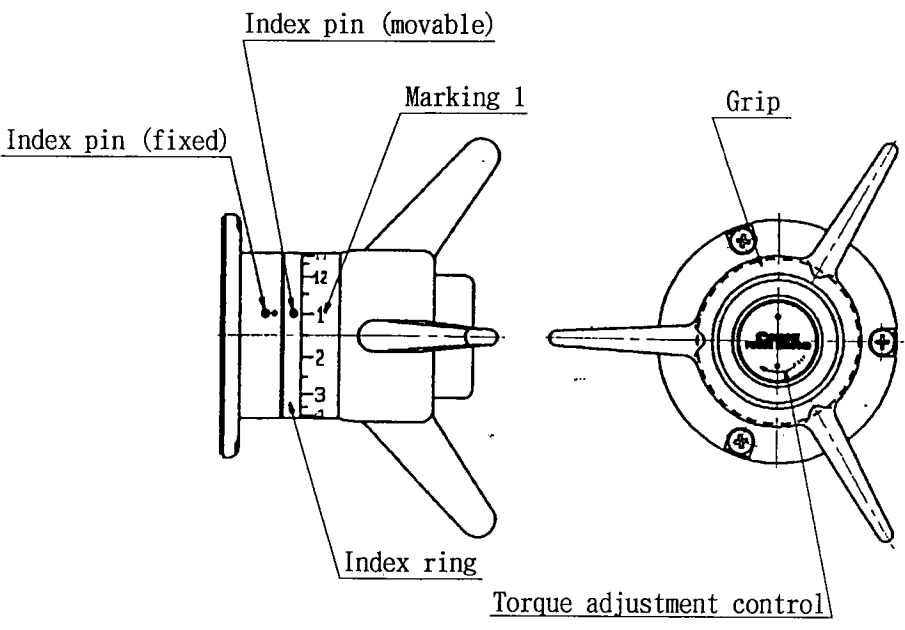


Symbol	Parts No.	Dimension	Description
U501	WP2-5070-00	000	Rotary Encoder (YHP HEDS-5600I01)
J201	VS3-0320-004	000	Socket Housing (MOLEX 51021-0400)
(J201)	WS3-1309-000	000	Contact (MOLEX 50079-8100)
	BG2-4338-000	000	Potary Encoder Uuit (W/Connector)

項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
[Mechanical performance] ※ Applicable model 1. CONNECTOR 2. SWITCHES 2 - 1. Rotation Inversion Switch 2 - 2. Focus Mode Switch 2 - 3. Factory Adjustment	This standard applies to a Focus Demand FDJ - D21 of control arm clamp type. • The master key (the largest groove) must be directed toward the display (TO LENS). • The direction of infinite rotation of the grip must be able to be switched between clockwise and counterclockwise. • The mode of fine focus adjustment must be able to be switched among Far, Standard, and Near. • The rotation inversion switch must be factory - set to infinite counterclockwise rotation of the grip (black point). The focus mode switch must be factory - set to Standard (black point). The diagram illustrates the mechanical components of the control arm clamp. It shows a circular grip with a central master key. Labels point to the 'Rotation inversion switch' (a small switch on the left), the 'Focus mode switch' (a switch on the right with positions for 'Far', 'Standard', and 'Near'), the 'Inner clip washer' (a small component at the bottom left), and the 'CE marking' (a small rectangular label at the bottom right). The grip also features a 'DIRECTION' label and a 'MARK' label.

項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
3. MOUNTING 3 - 1. Mounting of the Main Body 3 - 2. Inner Clip Washer 4. APPEARANCE, COATING 4 - 1. Appearance 4 - 2. Coating Color 5. CE MARKING AND Hyatt SEAL	• The gripsection and the main body must be tightly connected, with the index pin aligned as shown in the figure. There must be no play. • The clamper (CR30 type) must be securely fixed with the inner clip washer. There must be no play. • The appearance standard of the television camera lens must be met. • Main body : Hammer net (5Y4.5/0.7) B • Grip section : Hammer net (5Y4.5/0.7) B The BC2 - 4843 - 1 CE marking and BC2 - 2255 Hyatt seal must be appended.
	 The diagram illustrates the mechanical assembly of a television camera lens. It includes two views: a side view on the left and a front view on the right. In the side view, the 'Main body' is labeled, showing a 'Hyatt seal' with a dimension of 7.5. An 'Index pin' is shown protruding from the assembly. The front view shows the lens element with a 'Talk - back connector, to camera' and a 'Connector, to lens' indicated. The lens has a central circular feature with a crosshair and the word 'Sens' inside. The entire assembly is mounted on a base with four screws.

項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
6.GRIP	
6-1 Operation	• Rotate the grip clockwise and counterclockwise. The grip must rotate smoothly without unevenness, catches, and other problems. The thrust play caused by the grip must be 0.2 or less under the dead weight of the grip.
6-2 Number of Turns in the Entire Area	• 1.75 turns
6-3 Rotation Direction	• Infinite in the counterclockwise direction when viewed from the grip (Standard: See the description of the toggle switch.)
6-4 Torque Adjustment	• Rotate the torque adjustment control located at the end of the grip clockwise. The torque must be increased. • When the control is rotated counterclockwise up to the extreme position, the torque must be 500 gcm or less. At the extreme position in the clockwise direction, the torque must be 2500 ± 400 gcm.
6-5 Index Ring	• The ring must be rotated when a force of 0.6 to 1.2 kg is applied to the outer diameter of the ring.
6-6 Index Pin	• At the infinite position (extreme position in the counterclockwise direction), the index pin must be aligned with the number 1 marked on the grip.

項 目 / I t e m	規 格 內 容 / D e s c r i p t i o n
7-7 Factory Settings	The torque adjustment control is set to the extreme position in the counter clockwise. The index pin on the index ring is aligned with the number 1 marked on the grip. The grip is set to the infinite position (where the number 1 marked on the grip is aligned with the index pin).
	 Index pin (movable) Marking 1 Index pin (fixed) Index ring Grip Torque adjustment control

Parts Number	Q'ty	Description	Page	Remarks
BA0-4942-000 000	2	PIN	3-2	
BA1-5889-000 000	2	STOPPER	3-1	
BA2-2754-000 000	1	WASHER	3-1	
BA2-2162-020 000	1	WASHER	3-2	
BA2-2163-020 000	1	WASHER	3-2	
BA2-2167-000 000	2	PIN	3-2	
BA2-2170-000 000	1	WASHER	3-2	
BA2-2171-020 040	1	WAVE WASHER (T=0.4)	3-2	
BA2-2171-020 050	1	WAVE WASHER (T=0.5)	3-2	
BA2-2262-020 000	1	SCREW	3-2	
BA2-3058-000 000	1	RING	3-2	
BA2-3059-000 000	1	RING	3-2	
BA2-3060-020 000	1	WAVE WASHER	3-2	
BA2-3950-000 000	1	WASHER	3-2	
BC0-5241-000 000	1	PIN	3-1	
BC0-6685-020 000	1	HOLDER	3-1	
BC0-6686-000 000	1	NUT	3-1	
BC0-6690-000 000	1	WASHER	3-1	
BC0-6691-000 000	3	WASHER	3-1	
BC1-0321-000 000	3	LEVER	3-1	
BC1-0325-000 000	1	WASHER	3-1	
BC1-0915-000 000	1	FRICTION KNOB	3-2	
BC1-1055-000 000	1	NAME PLATE	3-2	
BC1-1847-000 000	1	ADJUSTING WASHER	3-1	
BC1-7488-000 000	1	ORDER PLATE	3-1,3-2	
BC1-8664-000 000	1	COVER	3-1	
BC2-1671-000 000	1	GRIP	3-2	
BC2-1672-000 000	1	INDEX RING	3-2	
BC2-1674-000 000	1	HOLDER	3-2	
BC2-2255-000 000	1	SEAL	3-1,3-2	
BC2-4655-030 000	1	ASSEMBLY HOLDER	3-1	

Parts Number	Q'ty	Description	Page	Remarks
BC2-4656-000 000	1	INDEX RING	3-1	
BC2-4657-000 000	1	SHAFT	3-1	
BC2-4658-000 000	1	SHAFT	3-1,3-2	
BC2-4659-020 000	1	COVER	3-1	
BC2-4660-000 000	1	SCREW	3-1	
BC2-4661-000 000	1	SHAFT	3-1	
BC2-4662-000 000	1	PULLEY	3-1,3-2	
BC2-4663-000 000	1	PULLEY	3-1,3-2	
BC2-4664-000 000	1	SHAFT	3-1,3-2	
BC2-4665-000 000	1	PLATE	3-1	
BC2-4666-000 000	1	RING	3-1	
BC2-4667-000 000	1	PULLEY	3-1,3-2	
BC2-4668-000 000	1	PULLEY	3-1,3-2	
BC2-4671-020 000	1	KNOB	3-1	
BC2-4672-000 000	1	RING	3-1	
BC2-4673-000 000	1	ADJUSTING KNOB	3-1	
BC2-4674-020 001	1	ADJUSTING WASHER T=0.01	3-1	
BC2-4674-020 002	1	ADJUSTING WASHER T=0.02	3-1	
BC2-4674-020 003	1	ADJUSTING WASHER T=0.03	3-1	
BC2-4674-020 010	1	ADJUSTING WASHER T=0.1	3-1	
BC2-4674-020 020	1	ADJUSTING WASHER T=0.2	3-1	
BC2-4675-000 000	2	SPACER	3-1	
BC2-4676-000 000	1	COVER	3-1	
BC2-4677-020 000	4	COVER	3-1	
BC2-4678-040 000	1	BASE	3-1	
BC2-4679-000 000	1	COVER	3-1,3-2	
BC2-4680-000 000	2	RING	3-1,3-2	
BC2-4843-001 000	1	LABEL	3-1,3-2	
BC2-5246-000 000	1	NAME PLATE	3-1	
BC2-5800-000 000	1	LABEL	3-1	
BC2-5801-000 000	1	LABEL	3-1	
BC2-6551-000 000	1	GUIDE	3-2	
BC2-6552-000 000	1	SHAFT	3-2	
BC2-6554-000 000	1	HOLDER	3-2	
BC2-6555-000 000	1	PLATE	3-2	
BC2-6556-000 000	1	RING	3-2	

Parts Number	Q'ty	Description	Page	Remarks
BC2-6558-000 000	1	BASE	3-2	
BC2-6559-000 000	1	BASE	3-2	
BC2-6561-000 000	1	HOLDER	3-2	
BC2-6563-000 000	1	NAME PLATE	3-2	
BF0-2112-020 000	1	PLATE	3-2	
BF5-2130-000 000	1	HOLDER	3-1,3-2	
BG2-4333-000 000	1	FOCUS AMP1 PCB ASS'Y	3-1	
BG2-4334-000 000	1	FOCUS AMP2 PCB ASS'Y	3-1,3-2	
BG2-4335-000 000	1	SWITCH BOARD ASS'Y	3-1,3-2	
BG2-4336-000 000	1	SENDER BOARD ASS'Y	3-1,3-2	
BG2-4338-000 000	1	ROTARY ENCODER UNIT	3-1,3-2	
BG2-4625-000 000	1	FOCUS AMP1 (UK TYPE)	3-2	
BH7-0638-000 000	1	RECEPTACLE	3-2	
BH7-0806-000 000	1	RECEPTACLE	3-1,3-2	
BS0-2034-000 000	2	TAPER PIN	3-1	
BS0-2508-000 000	1	PIN	3-1	
BS0-1518-020 000	2	SET SCREW	3-2	
BS1-2508-020 000	2	O-RING	3-1,3-2	
BS2-4554-000 000	1	BELT	3-1,3-2	
BS4-7616-000 001	1	ADJUSTING WASHER T=0.05	3-1	
BS4-7616-000 002	1	ADJUSTING WASHER T=0.1	3-1	
BS6-0565-000 000	2	SUPPORTER	3-2	
BS6-1501-000 000	2	SPACER	3-2	
BS6-1502-000 000	1	SPACER	3-2	
BS6-5043-000 000	4	WAVE WASHER	3-1	
BS6-5044-000 000	1	BALL	3-1	
VC5-8040-104 000	1	CAPACITOR	3-2	

Parts Number	Q'ty	Description	Page	Remarks
VC7-0630-100 000	2	CAPACITOR	3-1,3-2	
VC7-6730-106 000	1	CAPACITOR	3-1,3-2	
VC8-4440-227 000	1	CAPACITOR	3-1,3-2	
VC8-4450-226 000	1	CAPACITOR	3-1,3-2	
VC8-4460-107 000	1	CAPACITOR	3-1,3-2	
VL5-0420-681 000	1	CHOKE COIL	3-1,3-2	
VL7-0210-101 000	2	CHOKE COIL	3-1,3-2	
VR7-2610-102 000	4	RESISTOR	3-2	
VR7-2610-103 000	4	RESISTOR	3-2	
VR7-2610-104 000	4	RESISTOR	3-2	
VR7-2610-122 000	1	RESISTOR	3-1,3-2	
VR7-2610-152 000	1	RESISTOR	3-1,3-2	
VR7-2610-153 000	2	RESISTOR	3-1,3-2	
VR7-2610-201 000	2	RESISTOR	3-1,3-2	
VR7-2610-272 000	2	RESISTOR	3-1,3-2	
VR7-2610-333 000	1	RESISTOR	3-1,3-2	
VR7-2610-473 000	21	RESISTOR	3-2	
VR7-2610-622 000	1	RESISTOR	3-1,3-2	
VR7-3040-000 000	1	RESISTOR	3-1,3-2	
VR7-3040-203 000	1	RESISTOR	3-1,3-2	
VR7-3040-512 000	1	RESISTOR	3-1,3-2	
VS1-1201-004 000	1	PIN HEADER	3-1,3-2	
VS1-1201-005 000	1	PIN HEADER	3-1,3-2	
VS1-1201-006 000	2	PIN HEADER	3-1,3-2	
VS1-1201-007 000	1	PIN HEADER	3-1,3-2	
VS1-1201-008 000	1	PIN HEADER	3-1,3-2	
VS1-5469-012 000	1	PIN HEADER	3-1,3-2	
VS1-5653-012 000	1	PIN HEADER	3-1,3-2	
VS3-0320-004 000	1	CONNECTOR	3-1,3-2	
VS3-0320-005 000	2	CONNECTOR	3-1,3-2	

Parts Number	Q'ty	Description	Page	Remarks
VS3-0320-006 000	1	CONNECTOR	3-1,3-2	
VS3-0320-008 000	2	CONNECTOR	3-1,3-2	
WA1-0422-000 000	1	DIODE	3-1,3-2	
WA1-5276-000 000	4	DIODE	3-1,3-2	
WA1-5815-000 000	1	DIODE	3-2	
WA1-5842-000 000	1	DIODE	3-1,3-2	
WA2-5220-000 000	1	TRANSISTOR	3-1,3-2	
WA3-7692-000 000	1	IC	3-1,3-2	
WA3-8387-000 000	1	IC	3-1,3-2	
WA4-5385-000 000	1	IC	3-1,3-2	
WA4-6347-000 000	1	IC	3-2	
WA4-6399-000 000	1	IC	3-1,3-2	
WA4-6401-000 000	1	IC	3-1,3-2	
WA4-6454-000 000	1	IC	3-1,3-2	
WC1-5124-000 000	1	TOGGLE SWITCH	3-1,3-2	
WC1-5125-000 000	1	TOGGLE SWITCH	3-1,3-2	
WG1-5258-000 000	1	LED	3-2	
WG8-5276-000 000	2	IC	3-1,3-2	
WK2-5200-000 000	1	OSCILLATOR	3-1,3-2	
WP2-5070-000 000	1	ROTARY ENCODER	3-1,3-2	
WS3-1309-000 000	15	TERMINAL	3-1,3-2	
WT1-0362-000 000	1	SOLDERLESS TERMINAL	3-1,3-2	
WT1-5128-000 000	10	CHECK PIN	3-1,3-2	
XG2-2005-201 000	1	BALL BEARING	3-1,3-2	

Parts Number	Q'ty	Description	Page	Remarks
XG3-2005-201 000	1	BALL BEARING	3-1,3-2	
XG8-1100-021 000	1	STELL BALL	3-2	
XZ1-1300-505 000	2	SPACER	3-1	
XZ1-1300-605 000	4	SPACER	3-1,3-2	
XZ1-1301-605 000	1	SPACER	3-1	
Y62-2054-000 000	1	COVER UNIT	3-1	
Y62-2056-000 000	1	IC	3-1	
Y62-2057-000 000	1	IC	3-1	
Y62-2075-000 000	1	COVER UNIT	3-2	
Y62-2076-000 000	1	IC	3-2	