■ SCHEMATIC DIAGRAM (GX-700 CD)

NOTICE (model)
(J)····· JAPANESE
(U)····· U. S. A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

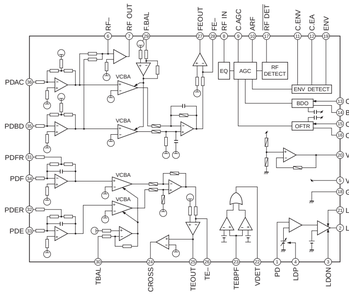
RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
◇	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
◇	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

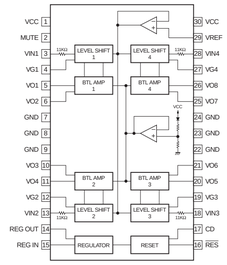
CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
◇	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
❀	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
Ⓜ	MICA CAPACITOR
◎	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

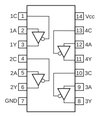
IC2 : AN8803SB
Digital Servo Head Amp



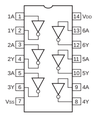
IC1 : LA6541D
4 Channel BTL Driver



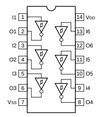
IC7, 9 : TC74HC125AF
Quad 3 State Bus Buffers



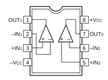
IC13 : TC74HC04AF
Hex Inverters



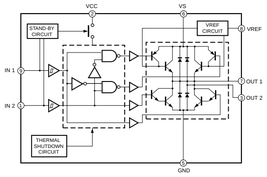
IC8 : TC74VHC14F
Hex Schmit Trigger Inverters



IC10 : μPC4570G2
Dual OP-Amp



IC3, 4 : TA8409S
Full Bridge Motor Driver

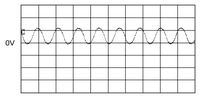


INPUT (Note)		OUTPUT		MODE
IN 1	IN 2	OUT 1	OUT 2	(MOTOR)
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAEK

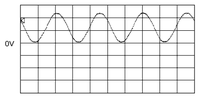
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1		
k2	Q3, 9, 10	2SC2878T1A/B3 2SD1995F1S/T1

Point ① (Pin59 of IC5)
V : 5V/div H : 50 nsec/div
DC range 1 : 1 probe

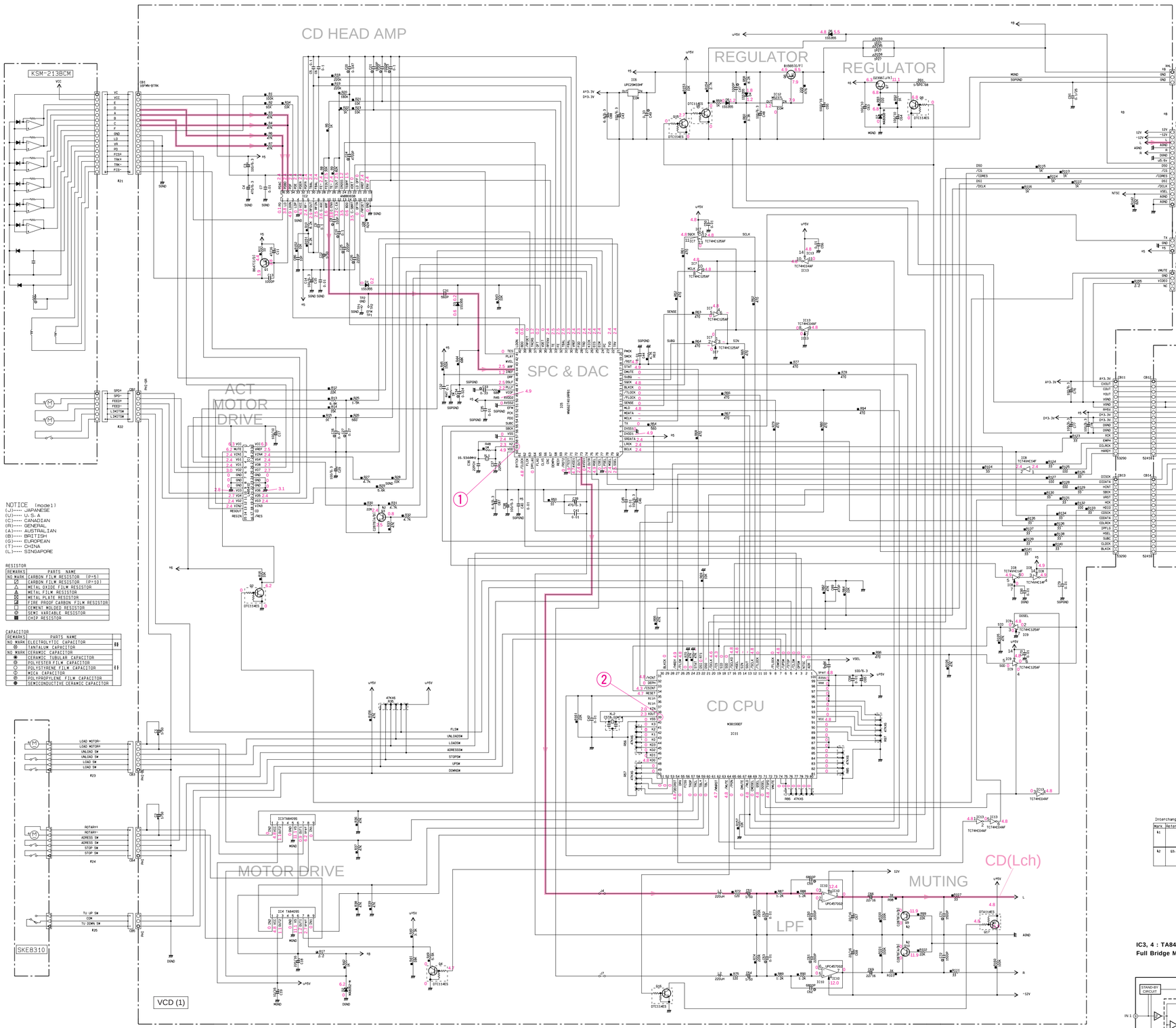


Point ② (Pin39 of IC11)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700VCD VCD)



NOTICE (model)
(J)..... JAPANESE
(U)..... U. S. A.
(C)..... CANADIAN
(A)..... GENERAL
(A)..... AUSTRALIAN
(B)..... BRITISH
(G)..... EUROPEAN
(T)..... CHINA
(L)..... SINGAPORE

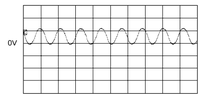
RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▩	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
◇	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

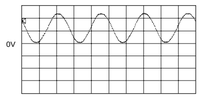
CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊘	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTRENE FILM CAPACITOR
◇	MICA CAPACITOR
◎	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

Point ① (Pin59 of IC5)
V : 5V/div H : 50 nsec/div
DC range 1 : 1 probe



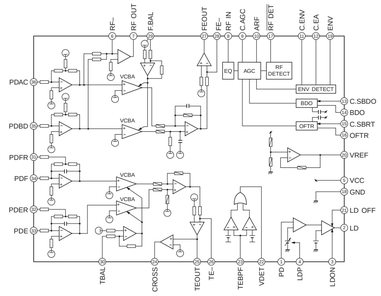
Point ② (Pin39 of IC11)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



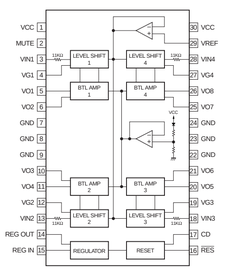
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1		
k2	Q3,Q5,Q6	2SC2878(A/B) 2SD2195F(S/T)

IC2 : AN8803SB
Digital Servo Head Amp



IC1 : LA6541D
4 Channel BTL Driver



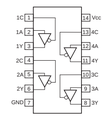
VCD MODULE
VZ150200

CONNECTION TERMINAL SPECIFICATION

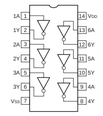
NO.	TERMINAL	I/O	FUNCTION
1	A+3.3V		+3.3V POWER SUPPLY FOR ANALOG VIDEO
2	CVOUT	O	COMPOSITE VIDEO OUT
3	COUT	O	C VIDEO OUTPUT (S)
4	YOUT	O	Y VIDEO OUTPUT (S)
5	VGND		ANALOG VIDEO GROUND
6	VGND		ANALOG VIDEO GROUND
7	R+5V		DIGITAL +5V POWER SUPPLY
8	D+3.3V		DIGITAL +3.3V POWER SUPPLY
9	D+3.3V		DIGITAL +3.3V POWER SUPPLY
10	DGND		DIGITAL GROUND
11	DGND		DIGITAL GROUND
12	XCK	I	AUDIO EXTERNAL FREQUENCY CLOCK
13	EMPH	O	AUDIO EMPHASIS OUTPUT
14	DILRCK	O	AUDIO LEFT RIGHT CLOCK
15	HRDY	O	HOST DATA READY
16	DISCK	O	AUDIO BIT CLOCK
17	DIDATA	O	AUDIO DATA SERIAL BUS
18	HINT	O	HOST INTERRUPT
19	SBCK	O	SUBCODE CLOCK FOR CD-G
20	VRST	I	HARDWARE RESET (LOW ACTIVE)
21	HCK	I	HOST CLOCK
22	HDIO	I/O	HOST SERIAL DATA BUS
23	CDSCK	I	CD BIT CLOCK
24	CDDATA	I	CD DATA
25	CDLRCK	I	CD LEFT RIGHT CLOCK
26	IPFLG	I	CD DATA ERROR FLAG (C2PO)
27	HSEL	I	HOST ADDRESS/DATA SELECT
28	SUBC	I	SUBCODE DATA FOR CD-G
29	CLDCK	I	SUBCODE FRAME SYNC FOR CD-G
30	BLKCK	I	SUBCODE BLOCK SYNC FOR CD-G

NOTE: None of the components of the VCD module can be supplied separately. Only a VCD module unit (VZ150200) is available.

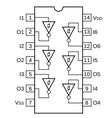
IC7, 9 : TC74HC125AF
Quad 3 State Bus Buffers



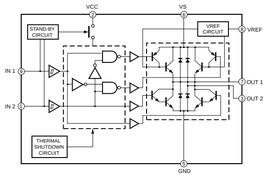
IC13 : TC74HC04AF
Hex Inverters



IC8 : TC74VHC14F
Hex Schmit Trigger Inverters

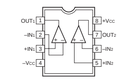


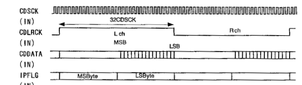
IC3, 4 : TA8409S
Full Bridge Motor Driver



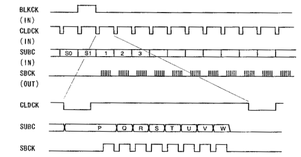
INPUT (Note)		OUTPUT		MODE
IN 1	IN 2	OUT 1	OUT 2	(MOTOR)
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAEK

IC10 : μPC4570G2
Dual OP-Amp

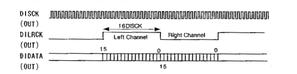




2. SUBCODE INTERFACE

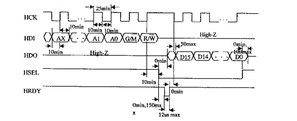


3. AUDIO OUTPUT INTERFACE

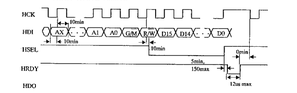


4. HOST INTERFACE

HOST READ TIMING



HOST WRITE TIMING



** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700 INPUT)

The voltages are measured by LH tape at PLAY mode (no-signal condition)
Only the voitages ( ) are at REC mode.

● DOLBY NR OFF

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	耐
ⓣ	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
◉	CERAMIC TUBULAR CAPACITOR	
Ⓜ	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	特
Ⓜ	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

RESISTOR

REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR	(P-5)
ⓒ	CARBON FILM RESISTOR	(P-10)
△	METAL OXIDE FILM RESISTOR	
◇	METAL FILM RESISTOR	
▲	METAL PLATE RESISTOR	
▤	FIRE PROOF CARBON FILM RESISTOR	
▥	CEMENT MOLDED RESISTOR	
⊘	SEMI VARIABLE RESISTOR	
■	CHIP RESISTOR	

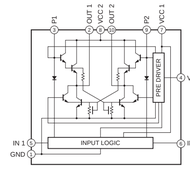
NOTICE (model)
(J)····· JAPANESE
(U)····· U. S. A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

INPUT SELECTOR
BUFFER
ELECTRONIC VOLUME CONTROL
BUFFER
MUTING
REGULATOR
MUTING
PRE AMP
TONE AMP
REGULATOR
SPECTRUM ANALYZER
MOTOR DRIVE
TAPE PB
HEAD EQ AMP DOLBY B-TYPE PROCESSOR
MECHANISM CONTROL
REC/PB SW
BIAS OSC
RESET
MAIN CPU
TUNER
CD
INPUT

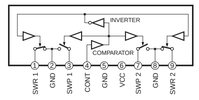
P72 I-6 — TO EFFECT(1)
P70 E-1 — TO DM(3)
P72 I-4 — TO EFFECT(1)
P74 H-6
P66 L-2
P73 A-4
P73 H-7
P73 A-3
SAME PAGE M-8
SAME PAGE M-9
SAME PAGE N-8
SAME PAGE K-6
SAME PAGE B-9
P70 E-6
P70 H-5

PB LEVEL ADJ. (Lch)
REC LEVEL ADJ.(Lch)
PB LEVEL ADJ. (Rch)
REC LEVEL ADJ. (Rch)
TAPE SPEED ADJ.
BIAS ADJ. (Lch)
BIAS ADJ. (Rch)

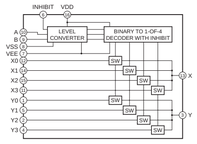
IC1 : LB1641
Motor Driver



IC2 : μPC1330HA
2 ch Head Selector Switch

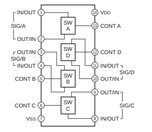


IC3, 4 : TC4052BF
Dual 4 Channel Analog Multiplexers/Demultiplexers

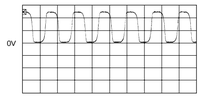


INHIBIT	B	A	
0	0	0	0x, 0y
0	0	1	1x, 1y
0	1	0	2x, 2y
0	1	1	3x, 3y
1	X	X	NONE

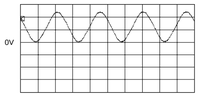
IC5 : μPD4066BG
Quad Analog Switch/Multiplexer



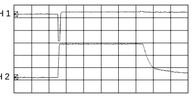
Point ③ (Pin37 of IC8)
V : 2V/div H : 20 μsec/div
DC range 1 : 1 probe



Point ④ (Pin39 of IC8)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



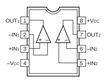
Point ⑤
CH1 : Collector of Q19 V : 2V/div (CH1)
CH2 : Anode of D11 V : 2V/div (CH2)
H : 0.5 sec/div DC range 1 : 1 probe
(This waveform is not available by pushing the power switch ON and OFF.)



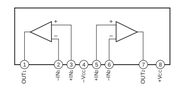
With the POWER ON, disconnect the A/C power cord. Reconnect the A/C power cord and the above waveforms will start.

Disconnect the power cord from the AC outlet.

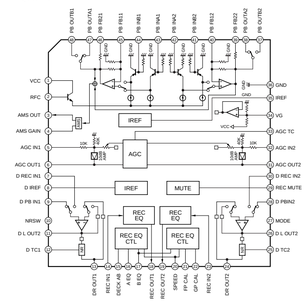
IC9, 11, 21 : μPC4570G2
Dual OP-Amp



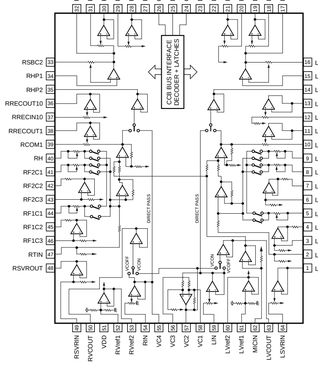
IC10 : BA15218N
Dual OP-Amp



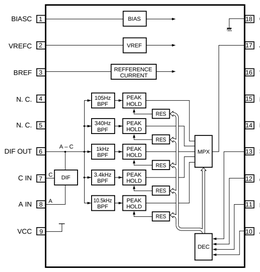
IC6 : CXA1897Q
Dolby B-Type Noise Reduction System with Recording/Playback Equalizer



IC7 : LC75393E
Electronic Volume Control



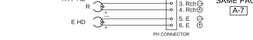
IC26 : BA3835S
5-Band BPF and Peak Hold for Spectrum Analyzer



	U-C	R	A-L	B-S
1	SW2	X	VU7557D	x	x
2	R276	10K	2K	3.9K	6.2K
3					
4					

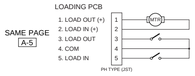
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	IC10	BA15218N MB15A0L
k2	Q28	2SA933S(E/R) 2SA1115(E/F) 2SA1309A(E/R/S)
k3	Q2-4	2SB1237(E/R) 2SA1574(R/S)
k4	Q3-11-13	2SC1740S(R/S) 2SC2603(E/F) 2SC3311A(E/R/S)
k5		
k6		
k7		
k8		
k9		
k10	IC2	UPC1330HA BA3126N



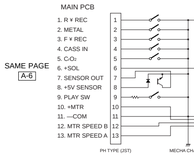
SAME PAGE A-7

LOADING PCB



SAME PAGE A-5

MAIN PCB



SAME PAGE A-6

** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700VCD INPUT)

The voltages are measured by LH tape at PLAY mode (no-signal condition)
Only the voitages ( ) are at REC mode.

● DOLBY NR OFF

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊘	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
◎	MICA CAPACITOR
◎	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊠	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

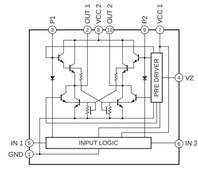
NOTICE (mode1)
(J)····· JAPANESE
(U)····· U. S. A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

INPUT SELECTOR
BUFFER
ELECTRONIC VOLUME CONTROL
MUTING
REGULATOR
PRE AMP
TONE AMP
MOTOR DRIVE
HEAD EQ AMP DOLBY B-TYPE PROCESSOR
MECHANISM CONTROL
REC/PB SW
BIAS OSC
TUNER
CD
MAIN CPU
RESET
SPECTRUM ANALYZER
INPUT

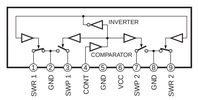
P72 I-6 — TO EFFECT(1)
P71 B-1 — TO QPE(1)
P71 E-1 — TO QPE(3)
P71 E-6 — TO QPE(1)
P71 H-5 — TO QPE(2)
P72 I-4 — TO EFFECT(1)
P73 A-4 — TO MUTE(1)
P73 H-7 — TO MUTE(1)
P73 A-3 — TO MUTE(1)
SAME PAGE M-8 — DECK MECHA
SAME PAGE M-9 — DECK MECHA
SAME PAGE N-8 — DECK MECHA
P74 H-6 — TO TUNER
P66 L-2 — TO INPUT
SAME PAGE K-6 — TO INPUT
SAME PAGE B-9 — TO INPUT

TAPE PB
PB LEVEL ADJ. (Lch)
REC LEVEL ADJ. (Lch)
PB LEVEL ADJ. (Rch)
REC LEVEL ADJ. (Rch)
TAPE SPEED ADJ.
BIAS ADJ. (Lch)
BIAS ADJ. (Lch)

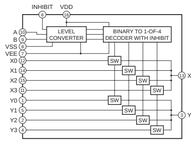
IC1 : LB1641
Motor Driver



IC2 : μPC1330HA
2 ch Head Selector Switch

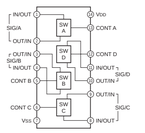


IC3, 4 : TC4052BF
Dual 4 Channel Analog Multiplexers/Demultiplexers

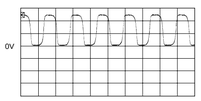


INHIBIT	B	A	
0	0	0	0x, 0y
0	0	1	1x, 1y
0	1	0	2x, 2y
0	1	1	3x, 3y
1	X	X	NONE

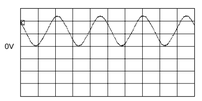
IC5 : μPD4066BG
Quad Analog Switch/Multiplexer



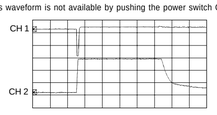
Point ③ (Pin37 of IC8)
V : 2V/div H : 20 μsec/div
DC range 1 : 1 probe



Point ④ (Pin39 of IC8)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



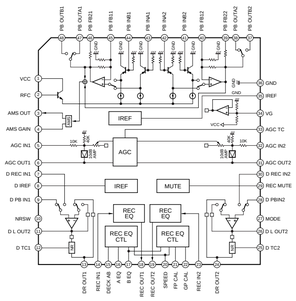
Point ⑤
CH1 : Collector of Q19 V : 2V/div (CH1)
CH2 : Anode of D11 V : 2V/div (CH2)
H : 0.5 sec/div DC range 1 : 1 probe
(This waveform is not available by pushing the power switch ON and OFF.)



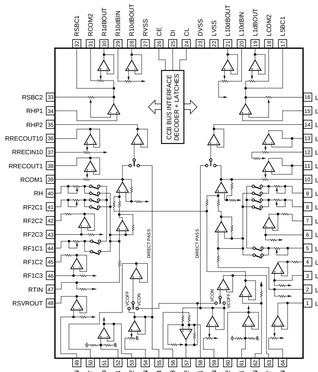
With the POWER ON, disconnect the A/C power cord. Reconnect the A/C power cord and the above waveforms will start.

Disconnect the power cord from the AC outlet.

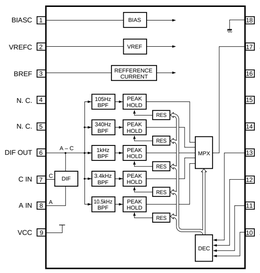
IC6 : CXA1897Q
Dolby B-Type Noise Reduction System with Recording/Playback Equalizer



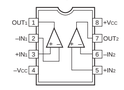
IC7 : LC75393E
Electronic Volume Control



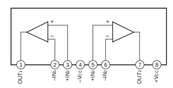
IC26 : BA3835S
5-Band BPF and Peak Hold for Spectrum Analyzer



IC9, 11, 21 : μPC4570G2
Dual OP-Amp



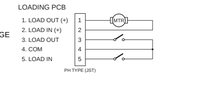
IC10 : BA15218N
Dual OP-Amp



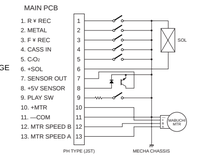
Mark	Reference Parts Number	Parts Name
k1	IC10	BA15218N MS2584A
k2	Q28	2SA933S(S/R) 2SA1115(S/T) 2SA1162(Y/GR)(S1) 2SA1371(S/R) 2SA1674(R/S)
k3	Q2.4	
k4	Q3.11-13	2SC1740S(R/S) 2SC2631(R/S) 2SC3311A(S/R-S)
k5		
k6		
k7		
k8		
k9		
k10	IC2	UPC1330HA BA3128N

S	A-T	L
1	SW2	VU7557D X
2	R276	2K 3.9K
3		
4		

SAME PAGE A-7



SAME PAGE A-5

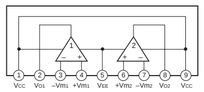


SAME PAGE A-6

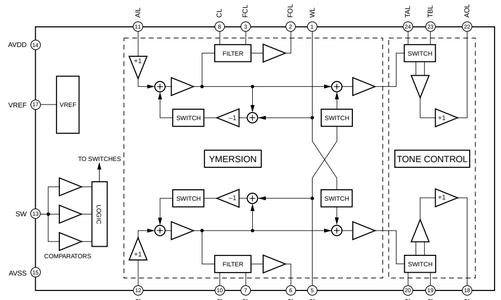
* All voltage are measured with a 10MΩ/V DC electric volt meter.
* Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

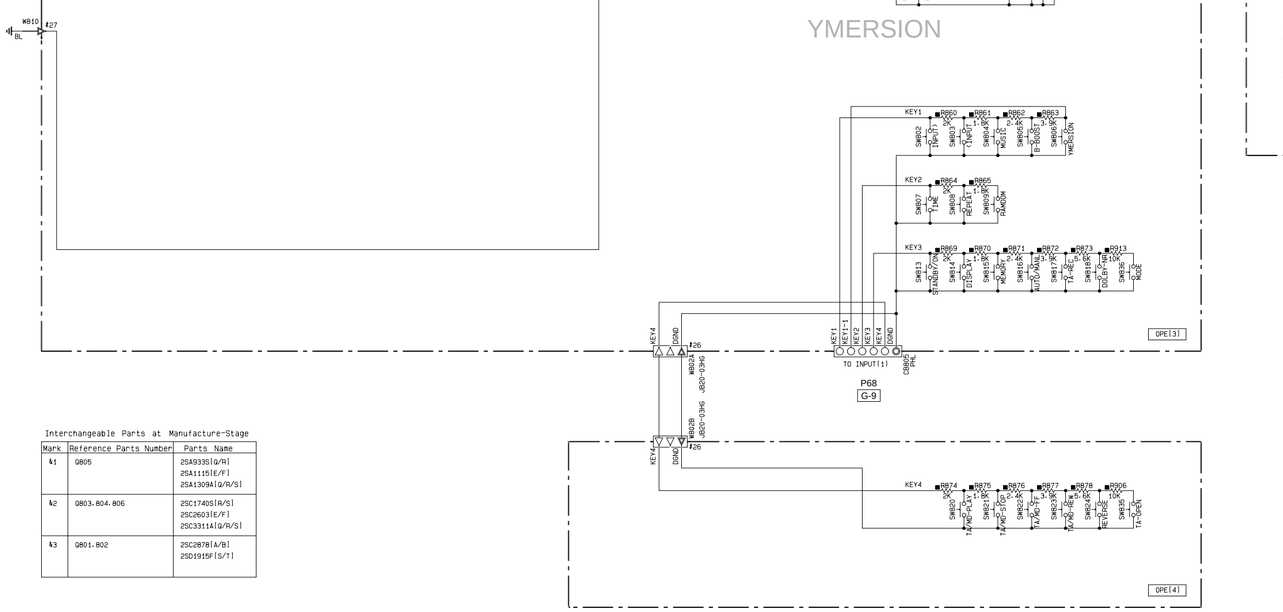
■ SCHEMATIC DIAGRAM (GX-700 OPERATION)

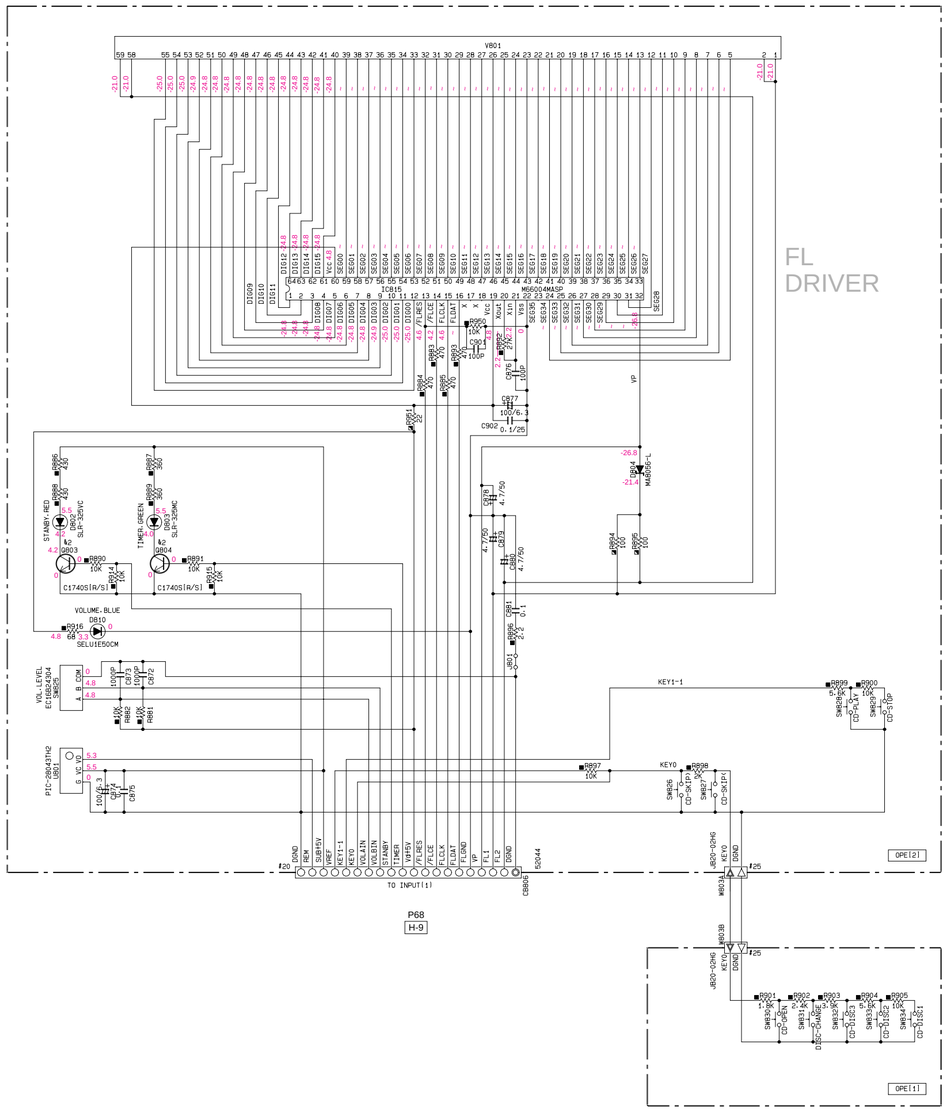
IC810 : µPC4570HA
Dual OP-Amp



IC814 : YSS247-D
YMERSION







Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
※1	Q805	2SA933S[Q/R] 2SA1115[E/F] 2SA1309A[Q/R/S]
※2	Q803.804.806	2SC1740S[R/S] 2SC2603[E/F] 2SC3311A[Q/R/S]
※3	Q801.802	2SC2878[A/B] 2SD1915F[S/T]

CAPACITOR

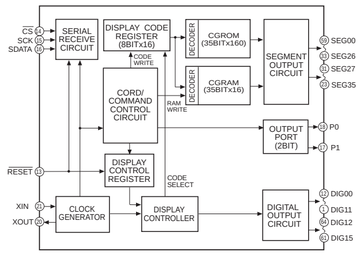
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⫪
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	⫫
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
ⓘ	MICA CAPACITOR	
ⓟ	POLYPROPYLENE FILM CAPACITOR	
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	

RESISTOR

REMARKS	PARTS NAME
▨	CARBON FILM RESISTOR (P=5)
▨	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

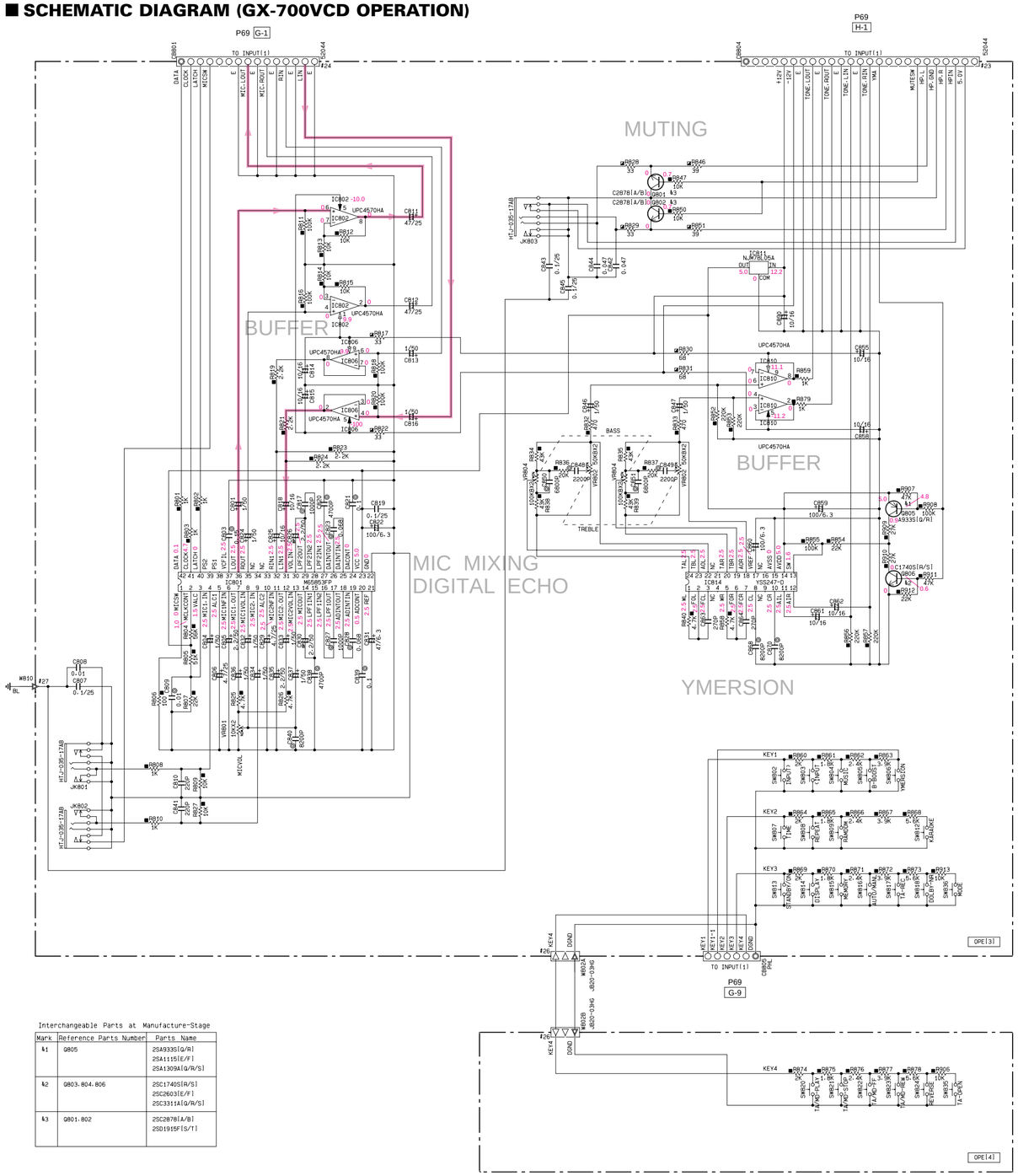
NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

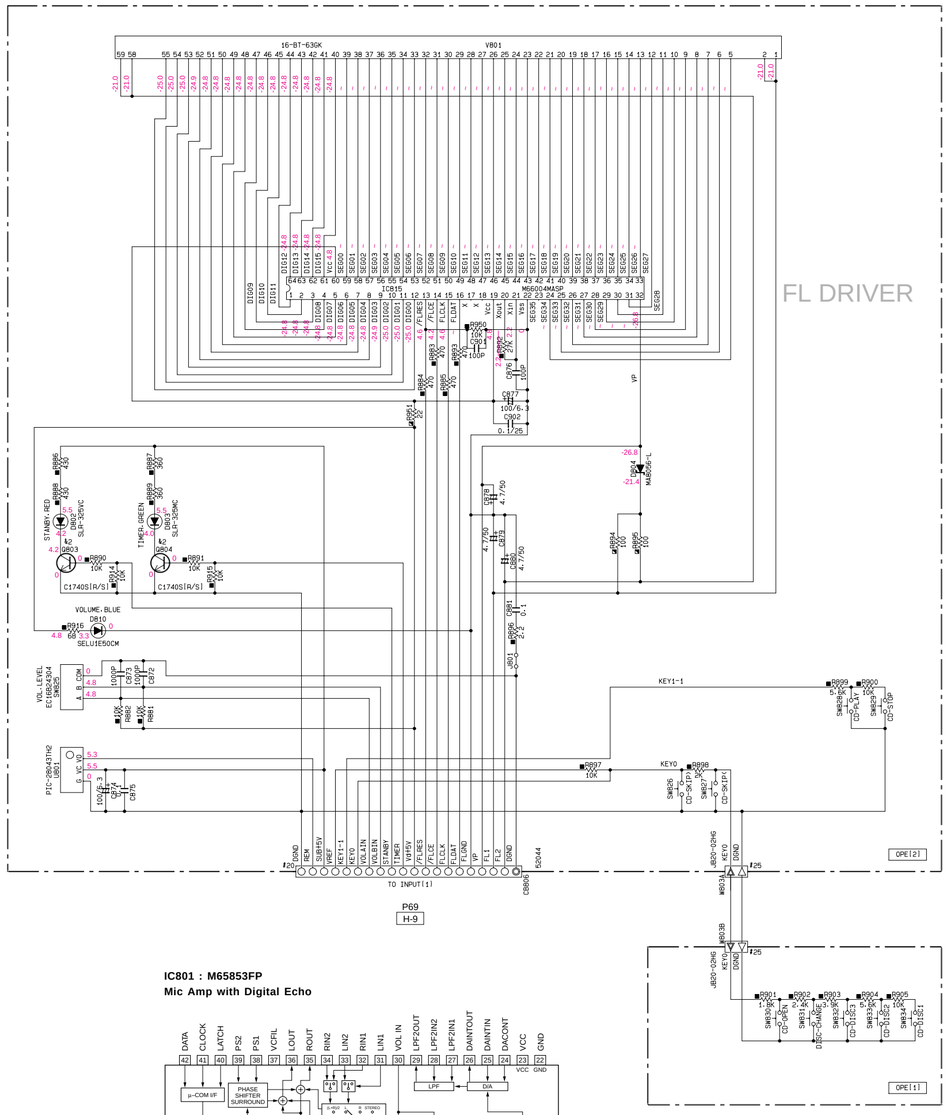
IC815 : M66004MASP
FL Driver



** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700VCD OPERATION)





Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
▲1	Q805	2SA933S[Q/R] 2SA1115[E/F] 2SA1309A[Q/R/S]
▲2	Q803.804.806	2SC1740S[R/S] 2SC2603[E/F] 2SC3311A[Q/R/S]
▲3	Q801.802	2SC2878[A/B] 2SD1915F[S/T]

RESISTOR

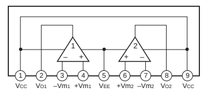
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR [P=5]
☑	CARBON FILM RESISTOR [P=10]
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

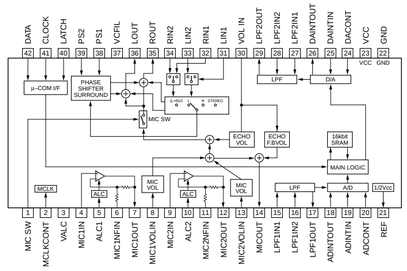
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⫫
◈	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	⫪
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
ⓘ	MICA CAPACITOR	
ⓟ	POLYPROPYLENE FILM CAPACITOR	
◍	SEMICONDUCTIVE CERAMIC CAPACITOR	

NOTICE (mode1)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

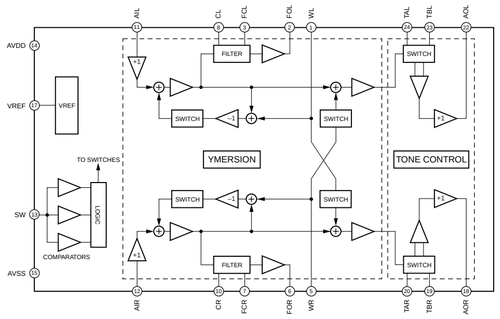
IC802, 806, 810 : µPC4570HA
Dual OP-Amp



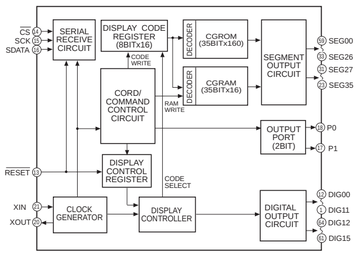
IC801 : M65853FP
Mic Amp with Digital Echo



IC814 : YSS247-D
YMERSION



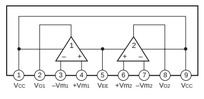
IC815 : M66004MASP
FL Driver



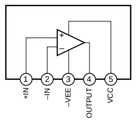
** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700/GX-700VCD EFFECT)

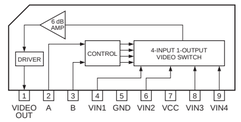
IC7 ~ 9 : µPC4570HA
Dual OP-Amp



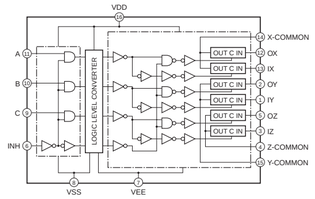
IC11 : LM1875T
Power Amp



IC1 : LA7956
Video Amp



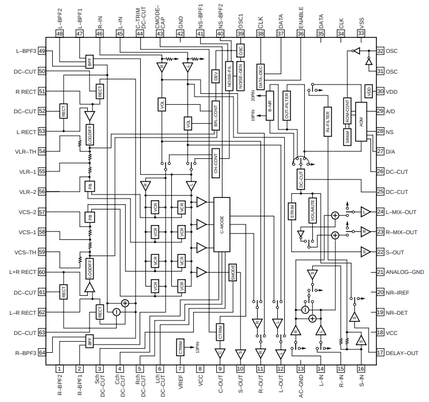
IC2 : HD14053BP
Triple 2 Channel Analog Multiplexers/Demultiplexers



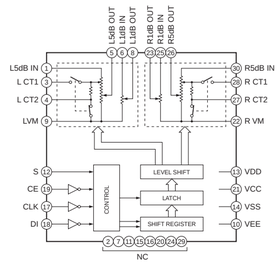
CONTROL INPUTS			"ON" CHANNEL
INHIBIT (Pin 6)	C (Pin 9)	B (Pin 10)	A (Pin 11)	
L	L	L	L	0X (Pin 13), 0Y (Pin 2), 0Z (Pin 5)
L	L	L	H	1X (Pin 14), 1Y (Pin 1), 1Z (Pin 3)
L	L	H	L	0X, 0Y, 0Z
L	L	H	H	1X, 1Y, 1Z
L	H	L	L	0X, 0Y, 0Z
L	H	L	H	1X, 1Y, 1Z
L	H	H	L	0X, 1Y, 1Z
L	H	H	H	1X, 1Y, 1Z
H	*	*	*	NOTE

* : Don't Care

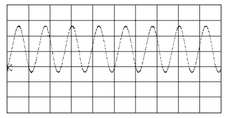
IC5 : LV1035M
Dolby ProLogic Decoder



IC10 : LC7536-Y
Electric Controlled Volume



Point ⑧ (Pin32 of IC5)
V : 2V/div H : 0.1 µsec/div
DC range 1 : 1 probe



NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊘	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⫴
⊗	TANTALUM CAPACITOR	⫴
NO MARK	CERAMIC CAPACITOR	⫴
◉	CERAMIC TUBULAR CAPACITOR	⫴
◎	POLYESTER FILM CAPACITOR	⫴
○	POLYSTYRENE FILM CAPACITOR	⫴
Ⓘ	MICA CAPACITOR	⫴
Ⓟ	POLYPROPYLENE FILM CAPACITOR	⫴
◍	SEMICONDUCTIVE CERAMIC CAPACITOR	⫴
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	⫴

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	IC2	HD14053BP TC4053BP UPD4053BC
&2	RY1	OSA-SS-224DM3 DG24D2-OS[M] ALA2F24
&3	Q3	2SC1740S[R/S] 2SC2603[E/F] 2SC3311A[Q/R/S]
&4		

* *All voltage are measured with a 10MΩ/V DC electric volt meter.*
* *Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
* *Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700/GX-700VCD MAIN)

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
☒	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
Ⓘ	MICA CAPACITOR
◎	POLYPROPYLENE FILM CAPACITOR
◉	SEMICONDUCTIVE CERAMIC CAPACITOR

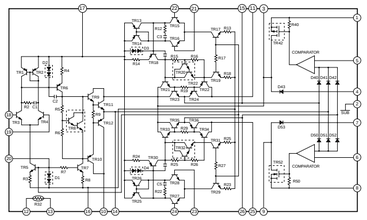
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1		
k2	D201	MTZJ27D HZS27Z
k3	D209-D214	HSS104 1SS133 1SS176
k4	RY201	OSA-SS-224DM3 DS24D2-OS(M) ALA2F24
k5	RY203	SDT-S-112LMR DG12D1-OI(M)II ALKS321

NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

s		U.C	R.T	A	B.G	L
1	F201	2A125V VS82250	T2AL250V KB00075	T2AL250V KB00075	T2AL250V KB00075	T2AL250V KB00075
2	F202	4A125V VS82290	T4AL250V KB00079	T1.6AL250V KB00166	T1.6AL250V KB00166	T1.6AL250V KB00166
3	J201	0	X	0	0	0
4	T202	XW019	XW020	XW021	XW022	XW022
5	T203	XV443	XV444	XV445	XV445	XV445
6	R276	1/2P2.2M HZ00511	X	X	X	X
7						

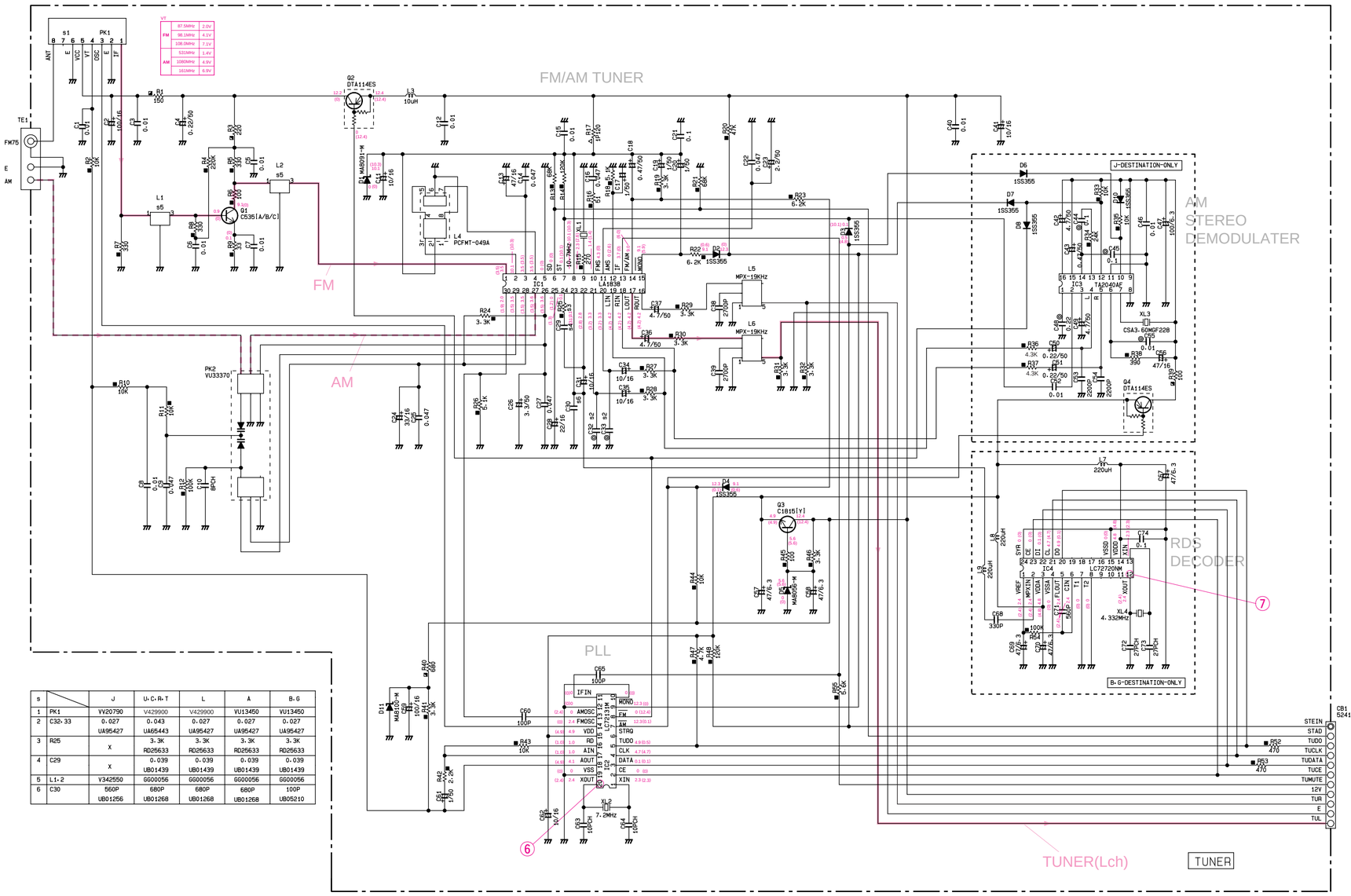
IC201 : STK496-620Y
3 Channel AF Power Amp



- *All voltage are measured with a 10MΩ/V DC electric volt meter.*
- *Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
- *Schematic diagram is subject to change without notice.*

■ SCHEMATIC DIAGRAM (GX-700/GX-700VCD TUNER)

Each voltage represents the voltage when receiving FM (stereo) signal and the voltage in the parentheses ( ) is the voltage when receiving AM signal.



S		J	U.C.R.T	L	A	B.G
1	PK1	VV20790	V429900	V429900	VU13450	VU13450
2	C32.33	0.027 UA95427	0.043 UA65443	0.027 UA95427	0.027 UA95427	0.027 UA95427
3	R25	X	3.3K RD25633	3.3K RD25633	3.3K RD25633	3.3K RD25633
4	C29	X	0.039 UB01439	0.039 UB01439	0.039 UB01439	0.039 UB01439
5	L1.2	V342550	G600056	G600056	G600056	G600056
6	C30	560P UB01256	680P UB01268	680P UB01268	680P UB01268	100P UB05210

RESISTOR

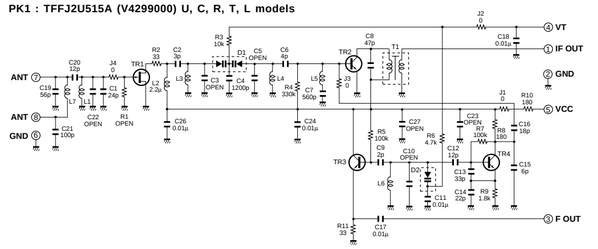
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊘	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

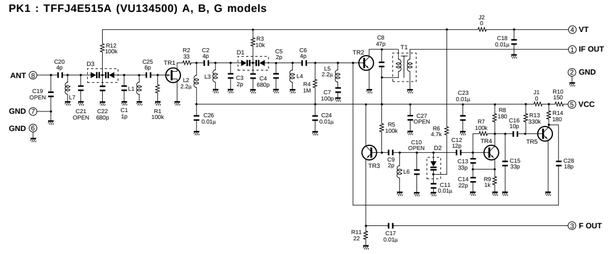
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
⊛	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
ⓘ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
◉	SEMICONDUCTIVE CERAMIC CAPACITOR

NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

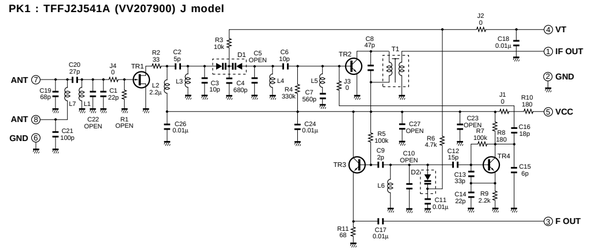
PK1 : TFFJ2U515A (V4299000) U, C, R, T, L models



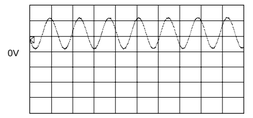
PK1 : TFFJ4E515A (VU134500) A, B, G models



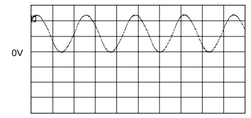
PK1 : TFFJ2J541A (VV207900) J model



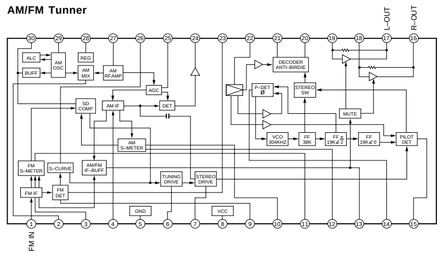
Point ⑥ (Pin20 of IC2)
V : 2V/div H : 0.1 µsec/div
DC range 1 : 1 probe



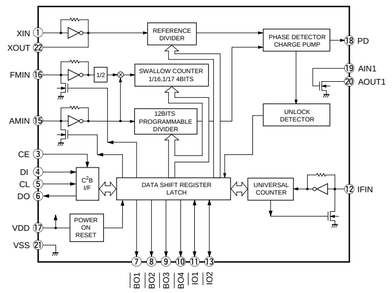
Point ⑦ (Pin12 of IC4)
V : 2V/div H : 0.1 µsec/div
DC range 1 : 1 probe



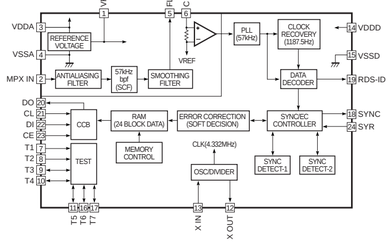
IC1 : LA1838
AM/FM Tunner



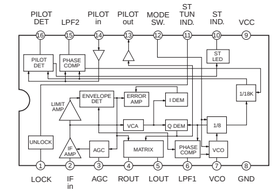
IC2 : LC72131M
PLL Controller



IC4 : LC72720NM
RDS Decoder & Controller

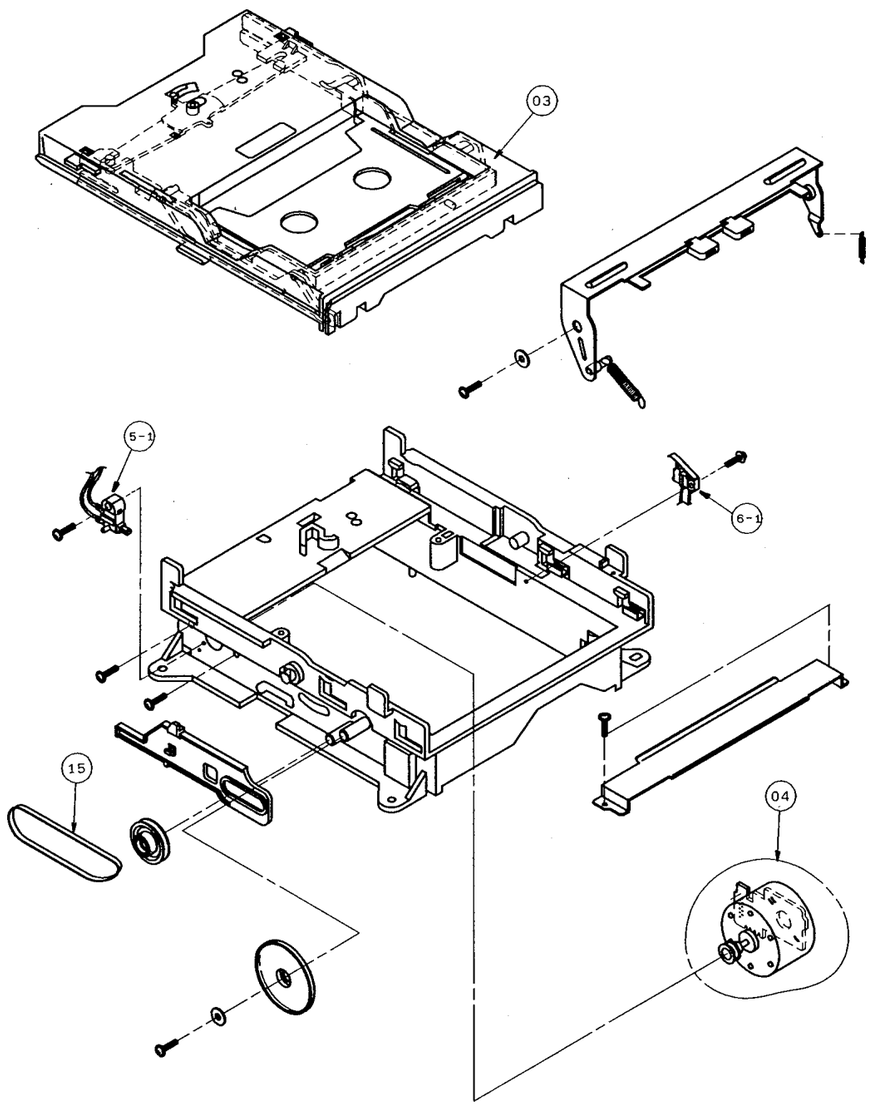


IC3 : TA2040AF
AM Stereo Demodulator



** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

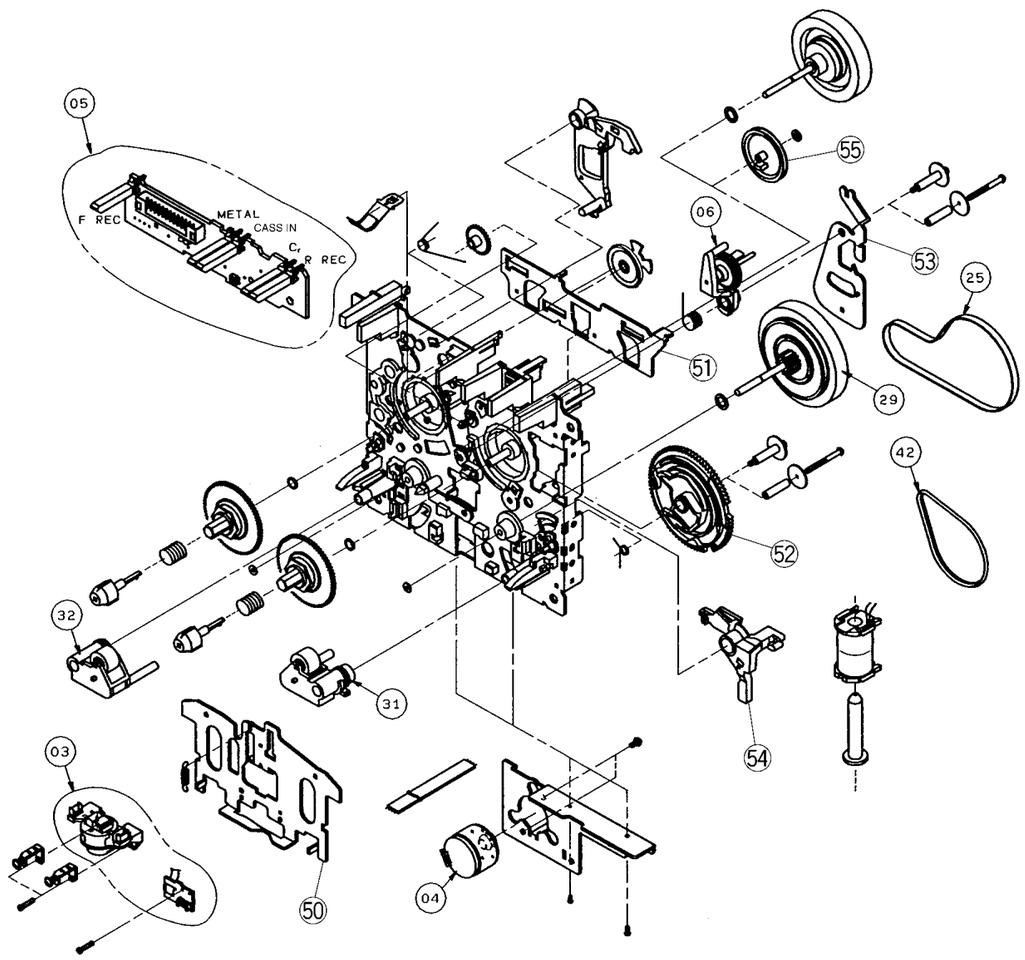
■ EXPLODED VIEW (Loading Unit)



	Ref. No.	PART NO.	Description		Remarks	Markets
		AAX07660	LOADING UNIT		F511630	
*	3	AAX07480	HOLDER CST BLOCK		F527078	
*	4	AAX07460	MTR REEL BLOCK		F564313	
*	5-1	AAX07510	SWITCH		UE15S14	
*	6-1	AAX07520	SWITCH		UE18P21	
*	15	AAX07580	BELT	LOADING	FF19L12	

* New Parts

■ EXPLODED VIEW (Cassette Deck Mech. Unit)



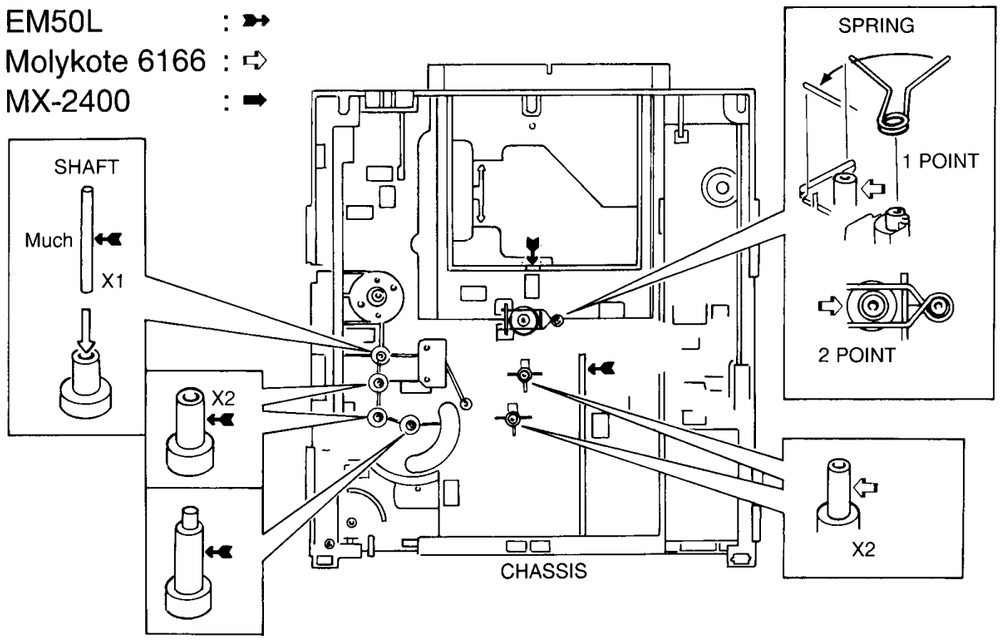
	Ref. No.	PART NO.	Description		Remarks	Markets
*		AAX07650	CASSETTE DECK MECH. UINT		F511638	
*	3	AAX07550	PLATE HD BLOCK		F513831	
*	4	AAX07450	MTR MAIN BLOCK		F525327	
*	5	AAX07470	PCB CONTROL BLOCK		F567626	
*	6	AAX07490	CLUTCH ASS'Y BLOCK		F522037	
*	25	AAX07570	BELT	MAIN	FF19H11	
*	29	AAX07500	CLUTCH ASS'Y BLOCK		F522048	
*	31	AAX07530	ROLLER PINCH BLOCK	R	F514129	
*	32	AAX07540	ROLLER PINCH BLOCK	L	F514130	
*	42	AAX07560	BELT	F/R	FF18W12	
	50	AX623570	HEAD BASE		FC61K28	
	51	AX622210	PLATE, SLIDE		FC61L17	
	52	CX677140	CAM, GEAR		FD52Y20	
	53	CX677130	LEVER	F/R	FC62G12	
	54	AX623590	LOCK LEVER		FD53D19	
	55	CX679800	PULLEY, CLUTCH		FD53F14	

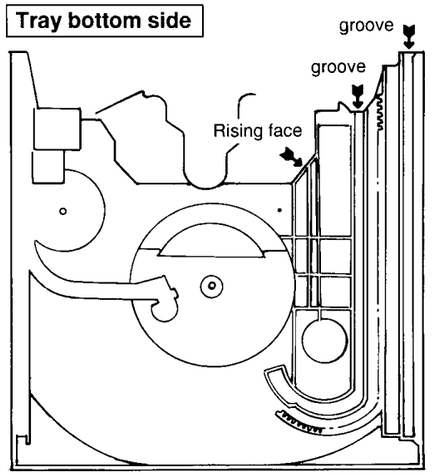
* New Parts

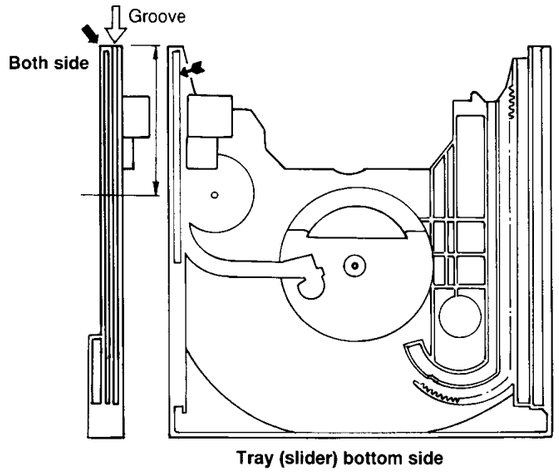
GREASE APPLICATION DIAGRAM (CD Mechanism)

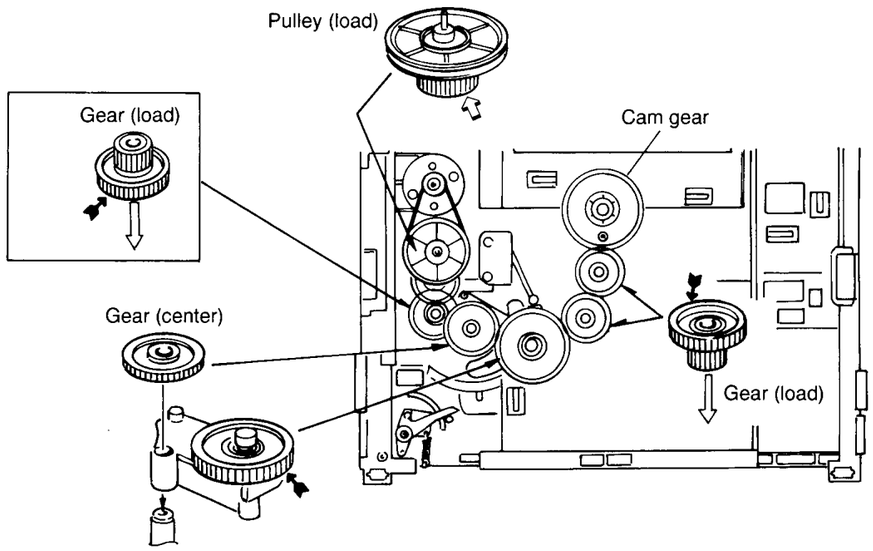
- **Grease to be supplied**
  The same grease as that originally used is not available but a substitutive grease is supplied instead. When using this grease, however, make sure to wipe off the attached grease thoroughly before applying the new one.

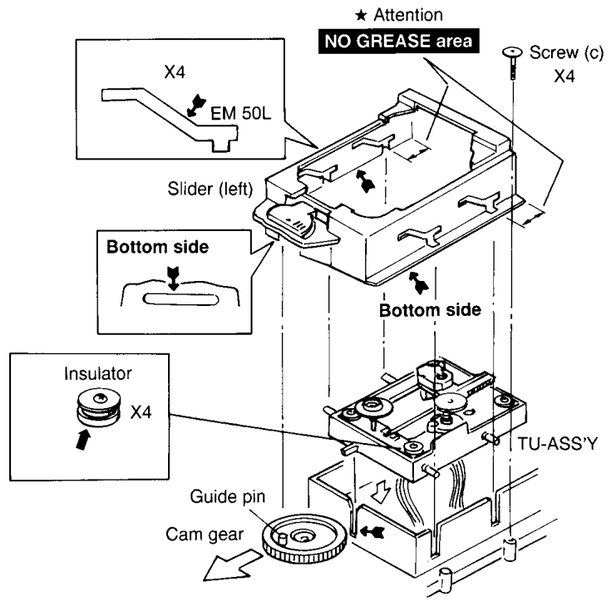
Grease originally used	Grease to be supplied	
EM50L	FLOIL G-351	P/NO. TX913160
Molykote 6166	FLOIL G-351	P/NO. TX913160
MX-2400	FLOIL G-351	P/NO. TX913160

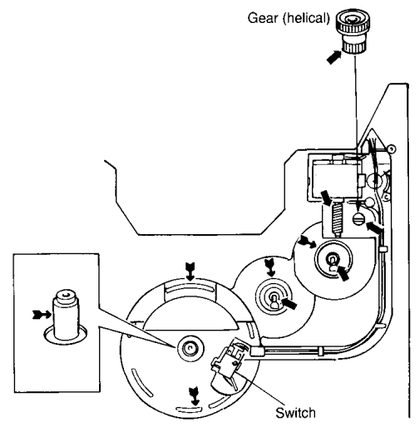






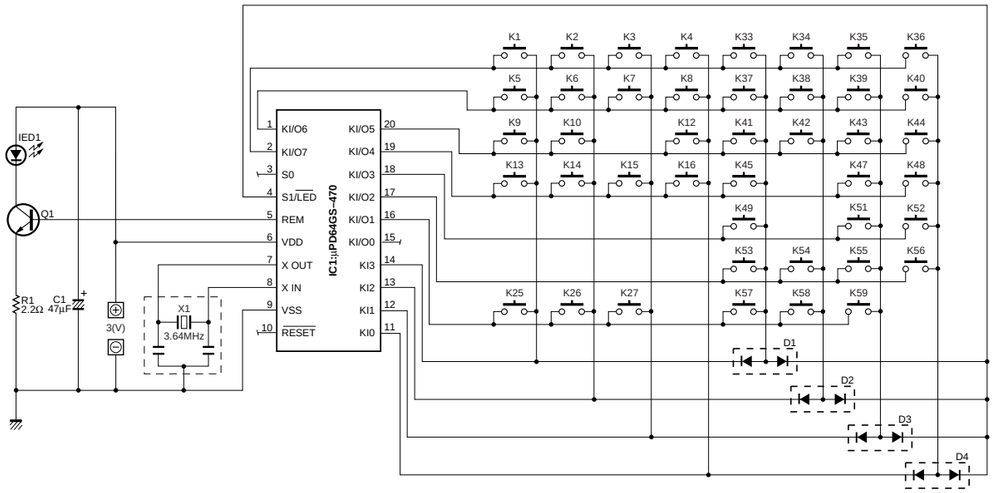


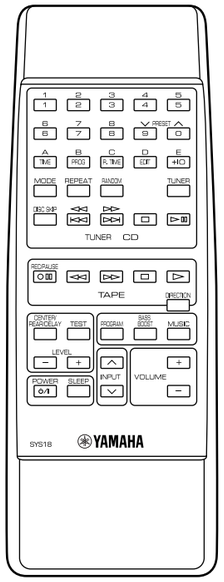




GX-700 REMOTE CONTROL TRANSMITTER

■ SCHEMATIC DIAGRAM



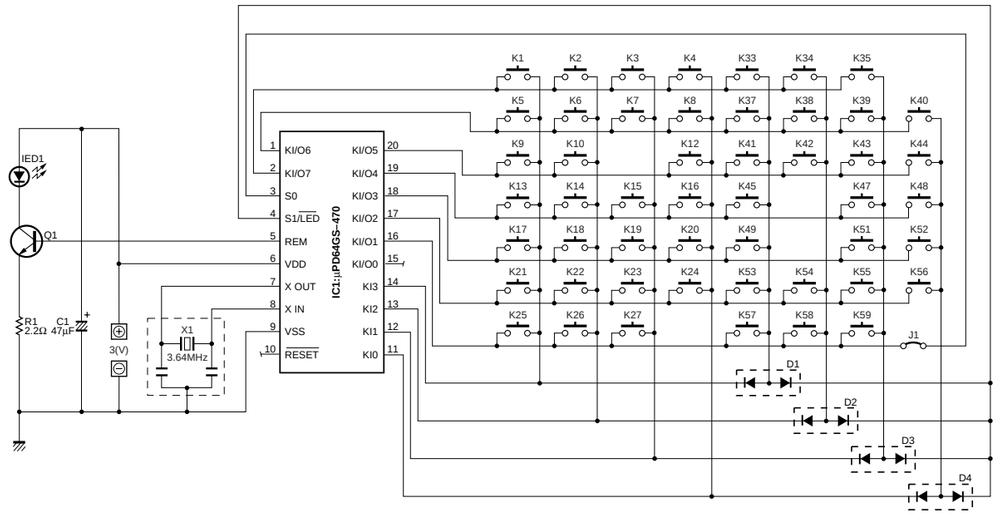


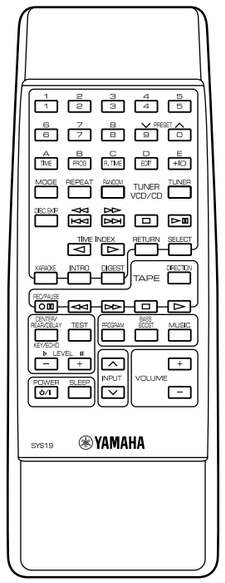
Key No.	FUNCTION		CUSTOM (HEX)	DATA (HEX)
1	2	2	78	12
2	3	3	78	13
3	4	4	78	14
4	5	5	78	15
5	PROG (CD)	B	78	0B
6	R. TIME (CD)	C	78	08
7	EDIT (CD)	D	78	09
8	+10	E	78	1A
9	REPEAT (CD)		78	0C
10	RANDOM (CD)		78	07
12	TUNER		78	4B
13	⏮ ◀◀ (CD)		78	04
14	▶▶ ⏭ (CD)		78	03
15	■ (CD)		78	01
16	▶❚❚ (CD)		78	02
25	DIRECTION (TAPE)		78	D8
26	VOLUME +		78	1E
27	VOLUME −		78	1F
33	●❚❚ REC/PAUSE	(TAPE)	78	46
34	◀◀	(TAPE)	78	45
35	▶▶	(TAPE)	78	44
36	■	(TAPE)	78	41

Key No.	FUNCTION		CUSTOM (HEX)	DATA (HEX)
37	▶	(TAPE)	78	42
38	CENTER/REAR/DELAY		78	48
39	TEST		78	5F
40	PROGRAM		78	5B
41	BASS BOOST		78	85
42	MUSIC		78	5A
43	LEVEL −		78	54
44	LEVEL +		78	53
45	INPUT ∧		78	5E
47	⏻/ I POWER		78	0F
48	SLEEP		78	4F
49	INPUT ∨		78	40
51	1	1	78	11
52	6	6	78	16
53	7	7	78	17
54	8	8	78	18
55	9	∨PRESET	78	19
56	0	∧PRESET	78	10
57	TIME (CD)	A	78	0A
58	MODE (CD)		78	5D
59	DISC SKIP		78	0D

GX-700VCD REMOTE CONTROL TRANSMITTER

■ SCHEMATIC DIAGRAM





Key No.	FUNCTION		CUSTOM (HEX)	DATA (HEX)
1	2	2	78	12
2	3	3	78	13
3	4	4	78	14
4	5	5	78	15
5	PROG (CD)	B	78	0B
6	R. TIME (CD)	C	78	08
7	EDIT (CD)	D	78	09
8	+10	E	78	1A
9	REPEAT (CD)		78	0C
10	RANDOM (CD)		78	07
12	TUNER		78	4B
13	⏮ ◀◀ (CD)		78	04
14	▶▶ ⏭ (CD)		78	03
15	■ (CD)		78	01
16	▶❚❚ (CD)		78	02
17	TIME INDEX ◀ (VCD)		78	82
18	TIME INDEX ▶ (VCD)		78	81
19	RETURN	(VCD)	78	8B
20	SELECT	(VCD)	78	8A
21	●❚❚ REC/PAUSE	(TAPE)	78	46
22	◀◀	(TAPE)	78	45
23	▶▶	(TAPE)	78	44
24	■	(TAPE)	78	41
25	▶	(TAPE)	78	42
26	VOLUME +		78	1E

Key No.	FUNCTION		CUSTOM (HEX)	DATA (HEX)
27	VOLUME −		78	1F
33	KARAOKE		78	5C
34	INTRO		78	83
35	DIGEST		78	84
37	DIRECTION		78	D8
38	KEY/ECHO		78	48
39	TEST		78	5F
40	YMERSION		78	5B
41	BASE BOOST		78	85
42	MUSIC		78	5A
43	LEVEL −	♭	78	54
44	LEVEL +	♯	78	53
45	INPUT ∧		78	5E
47	⏻/ I POWER		78	0F
48	SLEEP		78	4F
49	INPUT ∨		78	40
51	1	1	78	11
52	6	6	78	16
53	7	7	78	17
54	8	8	78	18
55	9	∨PRESET	78	19
56	0	∧PRESET	78	10
57	TIME (CD)	A	78	0A
58	MODE		78	5D
59	DISC SKIP		78	0D