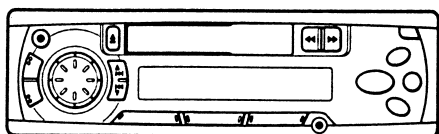


CT-X420 YU(ST)
CT-X410 YU(ST)
CT-X4150 YL(ST)
CT-X4100 YL(ST)
CT-X325 YVJ(ST)
CT-X320 YZ(ST),YVJ(ST)
CT-X310 YZ(ST)



SERVICE MANUAL

STEREO CAR CASSETTE RECEIVER

BASIC TAPE MECHANISM : CDS-363AG1-A

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CT-X420 YU(ST)/X410 YU(ST)(S/M Code No.09-003-339-2T1),
CT-X310 YZ(ST)/X325 YVJ(ST)/X320 YZ(ST),YVJ(ST)/X4100 YL(ST)/X4150 YL(ST)
(S/M Code No.09-003-339-1T2).

SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range:	87.5 MHz–108 MHz (100-kHz steps) 87.5 MHz–108 MHz [Except YV] 65 MHz–74 MHz [YV] (50-kHz steps)
Usable Sensitivity:	12.7 dBf
50 dB Quieting Sensitivity:	17.2 dBf
IF Rejection:	80 dB
Frequency Response:	30 Hz-15,000 Hz
S/N Ratio:	63 dB
Stereo Separation:	35 dB at 1 kHz
Alternate Channel Selectivity:	70 dB
Capture Ratio:	3 dB

(AM(MW)) [YU]

Frequency Range:	530 kHz–1,710 kHz (10-kHz steps) 531 kHz–1,602 kHz (9-kHz steps)
Usable Sensitivity:	30 μV (30 dB)

(MW) [YZ, YV]

Frequency Range:	531 kHz–1,620 kHz (9-kHz steps) 530 kHz–1,710 kHz (10-kHz steps)
Usable Sensitivity:	30 μV (30 dB)

(LW) [YZ, YV]

Frequency Range:	144 kHz–288 kHz (1-kHz/9-kHz steps)
Usable Sensitivity:	30 μV (30 dB)

TAPE SECTION

Tape Speed:	4.8 cm/sec. (1 ⁷ / ₈ ips)
S/N Ratio:	50 dB
Frequency Response:	40 Hz–14,000 Hz
Stereo Separation:	40 dB
FF/REW Time:	190 sec. (C-60)

AUDIO SECTION

Max. Power Output:	40 W x 4 channels
--------------------	-------------------

CD/MD IN input

Input sensitivity (load impedance)	
CD/MD IN:	300 mV (10 kΩ)

GENERAL

Power-Supply Voltage:	14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance:	4Ω
Tone Control:	Bass ± 10 dB at 100 Hz Treble ± 10 dB at 10 kHz
Preamp Output Voltage (load impedance):	2.2 V (10 kΩ)
Installation size:	182(W) x 53(H) x 155(D) mm (7 ¹ / ₄ (W) x 2 ¹ / ₈ (H) x 6 ¹ / ₈ (D) inches)

• Design and specifications are subject to change without notice.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KTG-903-010	IB, YL (3L)	4100, 4150<G, H>	9	8Z-KT1-251-010		S-SCREW, 5*6 TH+ TAPPING ST
1	8A-KTG-902-010	IB, YU (3L)	410	10	88-KT1-247-010		S-SCREW, HEXAGON
1	8A-KTG-901-010	IB, YU (3L)	420<A>	11	88-KT1-250-010		S-SCREW, THIN HEAD+2.6-4 BLK
1	8A-KTG-906-010	IB, YV (ER)	320<D, F>	12	8A-KTG-951-010		SPKR, 13CM ASSY<D>
1	8A-KTG-905-010	IB, YZ (9L)	320<C, E>	13	8Z-KTG-951-010		SPKR, 16CM ASSY<H>
2	8A-KTG-904-010	IB, INST, SP (3L, P)	-A<H>	14	87-B10-143-010		UT1+5-15 W/O SLOT
2	8A-KTG-907-010	IB, INST, SP (ER)	-A<D>	15	87-B10-144-010		W, 5.2-10-0.5
2	8A-KT5-902-010	IB, INST, YU, YL (3L, P)	<A, B, G, H>	16	87-B10-145-010		W-SPR, 5.3-8.5-1.5
2	8A-KT3-902-010	IB, INST, YZ (9L)	-A<C, D, E, F>				
3	86-KT1-237-010		HLDR, REAR MTG				
4	8Z-KT1-231-010		HLDR, HALF -T				
5	8Z-KT1-625-010		CONN ASSY, 16P SOC016<A, B, G, H>				
6	8Z-KT1-030-010		CASE, DFP -T				
7	8Z-KT1-232-010		KEY, REMOVE -T				
8	87-B10-141-010		NUT, 5 TYPE-2				

TYPE	MODEL NAME	SUFFIX
A	CT-X420	YU
B	CT-X410	YU
C	CT-X310	YZ
D	CT-X325	YV
E	CT-X320	YZ
F	CT-X320	YV
G	CT-X4100	YL
H	CT-X4150	YL

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C304	87-010-378-010		CAP, ELECT 10-16SME
	8Z-KT1-622-010		C-IC,LC75374E	C305	87-010-263-010		CAP, ELECT 100-10V
	8Z-KTG-622-010		IC,TA8259H	C306	87-010-263-010		CAP, ELECT 100-10V
	87-A21-539-030		C-IC,TC9323F	C307	87-012-365-080		C-CAP,S 0.027-25VBK
	87-A21-191-010		IC,KIA6225S	C308	87-012-365-080		C-CAP,S 0.027-25VBK
	87-A21-441-010		C-IC,TC9297FB	C309	87-010-401-010		CAP, ELECT 1-50V
TRANSISTOR				C310	87-010-401-010		CAP, ELECT 1-50V
	89-423-953-010		TR,2SD2395FY	C311	87-010-263-010		CAP, ELECT 100-10V
	87-A30-468-040		C-TR,KRC102S-RTK	C312	87-010-401-010		CAP, ELECT 1-50V
	87-026-576-080		C-TR,DTC343TK	C313	87-010-401-010		CAP, ELECT 1-50V
	87-A30-470-040		C-TR,KTC3875SY-RTK	C314	87-010-380-010		CAP,E 47-16 SME
	87-A30-471-040		C-TR,KTA1504SY-RTK	C315	87-A11-128-080		CAP, CER 4700P
	8Z-KTH-626-080		TR,KTC3203Y	C316	87-A11-128-080		CAP, CER 4700P
	8Z-KTH-627-080		TR,KTA1273Y	C401	87-010-380-010		CAP,E 47-16 SME
	87-A30-476-010		TR,KTA1046Y	C402	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-487-080		TR,KRC111M-AT	C403	87-010-401-010		CAP, ELECT 1-50V
	87-A30-295-010		TR,KRA226M	C404	87-010-401-010		CAP, ELECT 1-50V
	87-A30-473-080		TR,KRC102M-AT	C405	87-010-401-010		CAP, ELECT 1-50V
	87-A30-475-080		TR,KRA104M-AT	C406	87-010-401-010		CAP, ELECT 1-50V
	8Z-KTH-623-080		TR,KTA1267Y<C,D,E,F>	C407	87-010-184-080		CHIP CAPACITOR 3300P(K)
	87-A30-467-040		C-TR,KRA111S-RTK	C408	87-010-184-080		CHIP CAPACITOR 3300P(K)
	87-A30-469-040		C-TR,KRC111S-RTK	C409	87-010-198-080		CAP, CHIP 0.022
	87-A30-472-040		C-TR,KRA226S-RTK	C410	87-010-198-080		CAP, CHIP 0.022
DIODE				C411	87-010-378-010		CAP, ELECT 10-16SME
	87-020-465-080		DIODE,1SS133 (110MA)	C412	87-010-378-010		CAP, ELECT 10-16SME
	87-A40-798-010		DIODE,1N5402GW(3A/200V)	C413	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-001-783-080		DIODE,1N4002	C414	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-017-932-080		ZENER,MTZJ6.2B	C415	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-070-334-080		ZENER,MTZJ10B	C416	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-A40-337-080		ZENER,MTZJ 6.8B	C417	87-010-378-010		CAP, ELECT 10-16SME
	87-A40-523-080		ZENER,MTZJ9.1B	C418	87-010-378-010		CAP, ELECT 10-16SME
	87-A40-830-040		DIODE,KDS226-RTK	C419	87-010-401-010		CAP, ELECT 1-50V
	87-020-585-080		CHIP-ZENER,02CZ6.2V	C420	87-010-401-010		CAP, ELECT 1-50V
	87-A40-819-040		C-ZENER,STZ6.8T	C421	87-010-401-010		CAP, ELECT 1-50V
MAIN C.B				C422	87-010-401-010		CAP, ELECT 1-50V
ANT101	8Z-KT1-614-010		ANT,AW-002	C424	87-010-378-010		CAP, ELECT 10-16SME
C101	87-018-119-080		CAP, CER 100P-50V	C425	87-010-196-080		CHIP CAPACITOR,0.1-25
C102	87-018-134-080		CAPACITOR,TC-U 0.01-16	C426	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-010-380-010		CAP,E 47-16 SME	C451	87-010-401-010		CAP, ELECT 1-50V
C104	87-010-380-010		CAP,E 47-16 SME	C452	87-010-401-010		CAP, ELECT 1-50V
C105	87-018-134-080		CAPACITOR,TC-U 0.01-16	C501	87-010-378-010		CAP, ELECT 10-16SME<A>
C106	87-018-134-080		CAPACITOR,TC-U 0.01-16	C502	87-010-378-010		CAP, ELECT 10-16SME<A>
C109	87-018-134-080		CAPACITOR,TC-U 0.01-16	C503	87-010-378-010		CAP, ELECT 10-16SME
C110	87-018-134-080		CAPACITOR,TC-U 0.01-16	C504	87-010-378-010		CAP, ELECT 10-16SME
C111	87-010-402-080		CAP, ELECT 2.2-50V	C505	87-010-175-080		CAP 560P<A>
C112	87-018-205-080		CAP, CERA-SOL 0.022	C506	87-010-175-080		CAP 560P<A>
C119	87-010-194-080		CAP, CHIP 0.047	C507	87-010-175-080		CAP 560P
C120	87-010-194-080		CAP, CHIP 0.047	C508	87-010-175-080		CAP 560P
C121	87-018-134-080		CAPACITOR,TC-U 0.01-16	C601	87-016-083-080		C-CAP,S 0.15-16 RK
C122	87-018-134-080		CAPACITOR,TC-U 0.01-16	C602	87-016-083-080		C-CAP,S 0.15-16 RK
C123	87-010-380-010		CAP,E 47-16 SME	C603	87-016-083-080		C-CAP,S 0.15-16 RK
C124	87-018-209-080		CAP, CER 0.1-50V	C604	87-016-083-080		C-CAP,S 0.15-16 RK
C201	87-018-209-080		CAP, CER 0.1-50V	C605	87-018-209-080		CAP, CER 0.1-50V
C203	87-018-132-010		CAP CER CYL SS 2200P	C607	87-A11-179-010		CAP,E 10-16-105 D5*L11 KMF
C204	87-018-205-080		CAP, CERA-SOL 0.022	C608	8Z-KT1-633-090		CAP,E 3300U-16 PW
C205	87-010-263-010		CAP, ELECT 100-10V	C609	87-010-180-080		C-CER 1500P
C208	87-010-112-010		CAP,ELECT 100-16V	C610	87-010-180-080		C-CER 1500P
C211	87-010-378-010		CAP, ELECT 10-16SME	C611	87-010-180-080		C-CER 1500P
C213	87-010-380-010		CAP,E 47-16 SME	C612	87-010-180-080		C-CER 1500P
C214	87-018-134-080		CAPACITOR,TC-U 0.01-16<C,D,E,F>	C701	87-010-380-010		CAP,E 47-16 SME
C215	87-018-209-080		CAP, CER 0.1-50V	C702	87-010-248-010		CAP, ELECT 100-10V
C301	87-018-131-080		CAP, CER 1000P-50V	C703	87-010-198-080		CAP, CHIP 0.022
C302	87-018-131-080		CAP, CER 1000P-50V	C705	87-010-314-080		C-CAP,S 22P-50V
C303	87-010-378-010		CAP, ELECT 10-16SME	C706	87-010-197-080		CAP, CHIP 0.01 DM
				C707	87-010-315-080		C-CAP,S 27P-50 CH
				C708	87-010-314-080		C-CAP,S 22P-50V
				C709	87-016-526-080		C-CAP,S 0.47-16 BK
				C710	87-010-401-010		CAP, ELECT 1-50V
				C711	87-010-404-010		CONDENSER 4.7-50
				C712	87-012-349-080		C-CAP,S 1000P-50 CH

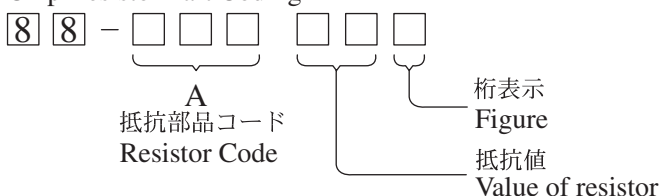
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C713	87-016-526-080	C-CAP,S 0.47-16 BK		FRONT C.B			
C714	87-016-526-080	C-CAP,S 0.47-16 BK		C901	87-012-358-080	C-CAP,S 0.47-10 F Z	
C715	87-016-669-080	C-CAP,S 0.1-25 K B		C902	87-010-197-080	CAP, CHIP 0.01 DM	
C716	87-016-669-080	C-CAP,S 0.1-25 K B		CN901	88-KTA-602-010	CONN,15P CAM-B67	
C717	87-010-248-010	CAP, ELECT 100-10V		D907	87-017-827-070	C-LED,SEC 1201C RED	
				D908	87-017-827-070	C-LED,SEC 1201C RED	
C801	87-018-134-080	CAPACITOR,TC-U 0.01-16					
C802	87-018-209-080	CAP, CER 0.1-50V		D909	87-017-827-070	C-LED,SEC 1201C RED	
C803	87-018-209-080	CAP, CER 0.1-50V		D910	87-A40-813-040	C-LED,SEC1E01C BLUE	
C804	87-012-349-080	C-CAP,S 1000P-50 CH		D911	87-A40-813-040	C-LED,SEC1E01C BLUE	
C805	87-012-349-080	C-CAP,S 1000P-50 CH		D912	87-A40-813-040	C-LED,SEC1E01C BLUE	
				LCD901	8A-KTG-612-010	LCD,AKT-16-17 AUX<EXCEPT F>	
CN201	8Z-KT1-624-010	CONN,16P SOC017<A,B,G,H>					
CN301	87-009-031-010	CONNECTOR, 3P		LCD901	8A-KTG-610-010	LCD,AKT-16-17<F>	
CN302	87-099-408-010	CONN,8P EH V WHT		PL901	8A-KT7-655-010	LAMP,9V-50MA	
CN801	88-KTA-603-010	CONN,15P CAM-B68		PL902	8A-KT7-655-010	LAMP,9V-50MA	
CNA201	8A-KT1-631-010	CONN ASSY,8P ISO-BLACK-A<C,D,E,F>		S901	87-036-251-080	SW,T CT 6X3.5 160	
				S902	87-036-251-080	SW,T CT 6X3.5 160	
CNA202	8A-KT1-632-010	CONN ASSY,8P ISO-WHITE-A<C,D,E,F>					
CNA301	8Z-KTG-651-010	CONN ASSY,3P HEAD		S903	87-036-251-080	SW,T CT 6X3.5 160	
CNA302	8Z-KTG-652-010	CONN ASSY,8P MOTOR		S904	87-036-251-080	SW,T CT 6X3.5 160	
D806	87-027-262-010	LEDE,TLR-124 (RED)		S905	87-A90-001-080	C-SW,TACT SKQMAL	
F201	8Z-KC1-621-010	FUSE,15A 32V		S906	87-036-251-080	SW,T CT 6X3.5 160	
				S907	87-036-251-080	SW,T CT 6X3.5 160	
J501	87-A61-225-010	JACK,PIN 2P XR-401<EXCEPT A>					
J501	87-A61-224-010	JACK,PIN 4P XR-401<A>		S908	87-036-251-080	SW,T CT 6X3.5 160	
L101	87-003-143-080	COIL 4.7 UH		S909	87-036-251-080	SW,T CT 6X3.5 160	
L102	8Z-KT1-619-010	COIL,68MH K7-D		S910	87-036-251-080	SW,T CT 6X3.5 160	
L201	8Z-KT1-615-010	FLTR,AMORPHOUS -CHOKE		S911	87-A90-001-080	C-SW,TACT SKQMAL	
				S912	87-A90-001-080	C-SW,TACT SKQMAL	
L451	87-003-143-080	COIL 4.7 UH					
L701	87-003-149-080	COIL,47UH		S913	87-036-251-080	SW,T CT 6X3.5 160	
L702	87-003-097-080	COIL,1UH		S915	87-A90-001-080	C-SW,TACT SKQMAL	
L801	87-003-149-080	COIL,47UH		S916	87-A90-001-080	C-SW,TACT SKQMAL	
S751	87-A91-152-010	SW,SL 1-1-2 SSSS212-11-A		VR101	87-A91-597-010	SW,RTRY SIM-026MT	
TUN101	8A-KC8-620-010	TU UNIT, FAE347-A11<C,E>		W901	8A-KT9-611-010	F-CABLE,3P 50MM	
TUN101	8A-KC8-621-010	TU UNIT, FAE347-A12<A,B,G,H>					
TUN101	8A-KTG-607-010	TU UNIT, FAE347-P10<D,F>					
X701	87-A70-175-010	VIB,XTAL 4.5MHZ AT-49		AUX C.B			
				J901	87-A61-229-010	JACK,3.5 BLK ST W/SW	

TYPE	MODEL NAME	SUFFIX
A	CT-X420	YU
B	CT-X410	YU
C	CT-X310	YZ
D	CT-X325	YV
E	CT-X320	YZ
F	CT-X320	YV
G	CT-X4100	YL
H	CT-X4150	YL

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

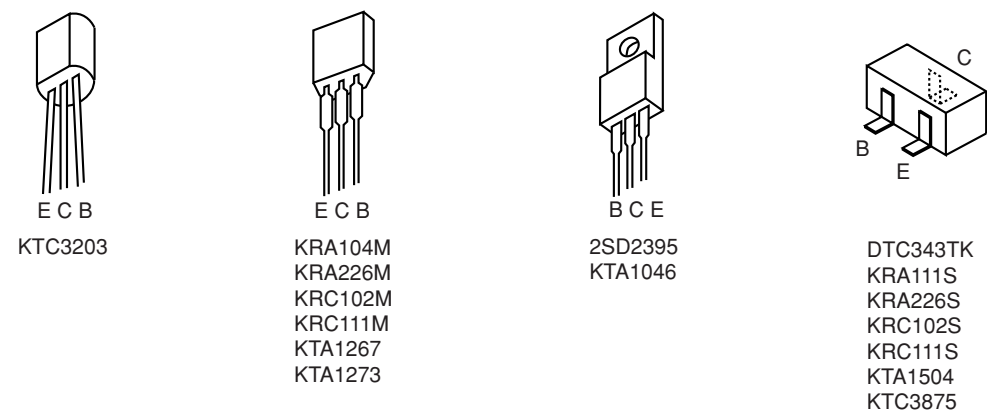
Chip Resistor Part Coding



チップ抵抗
Chip resistor

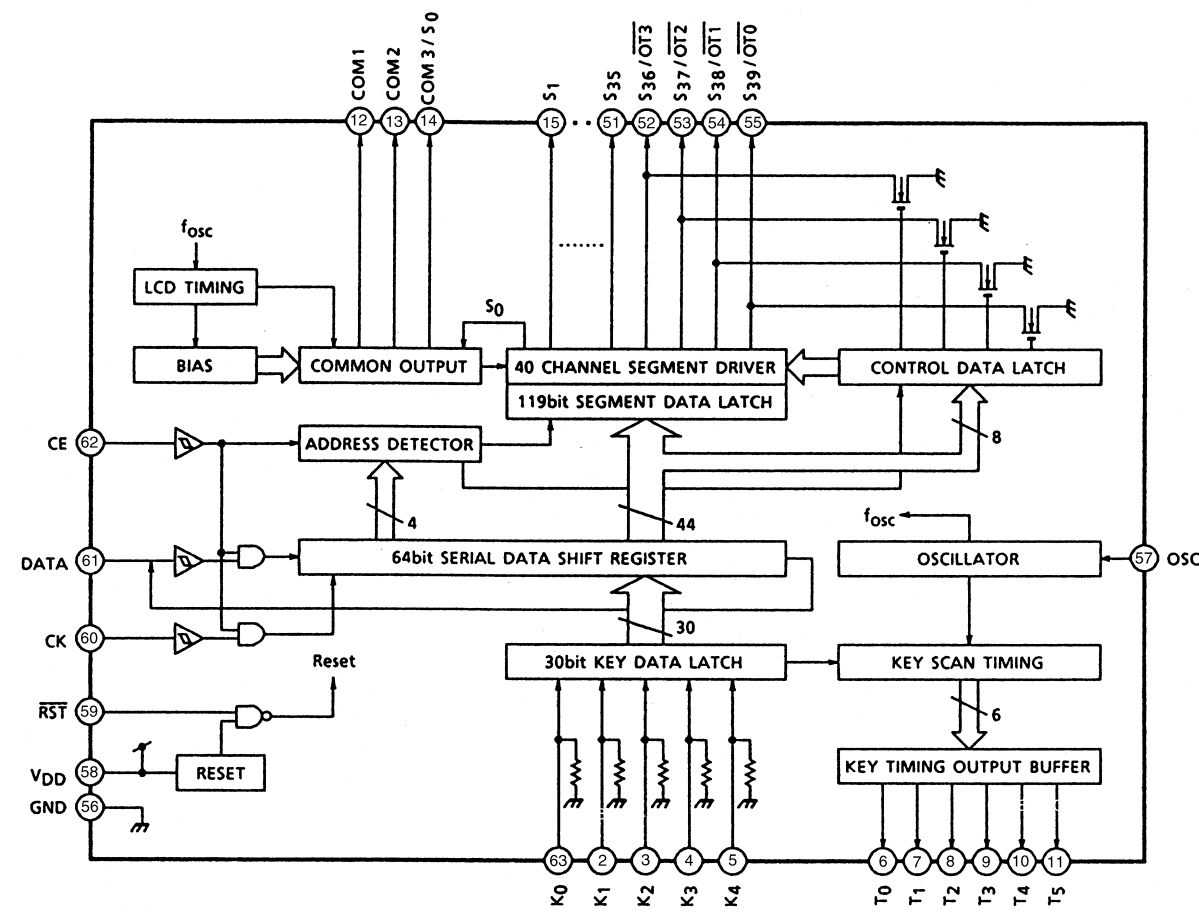
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

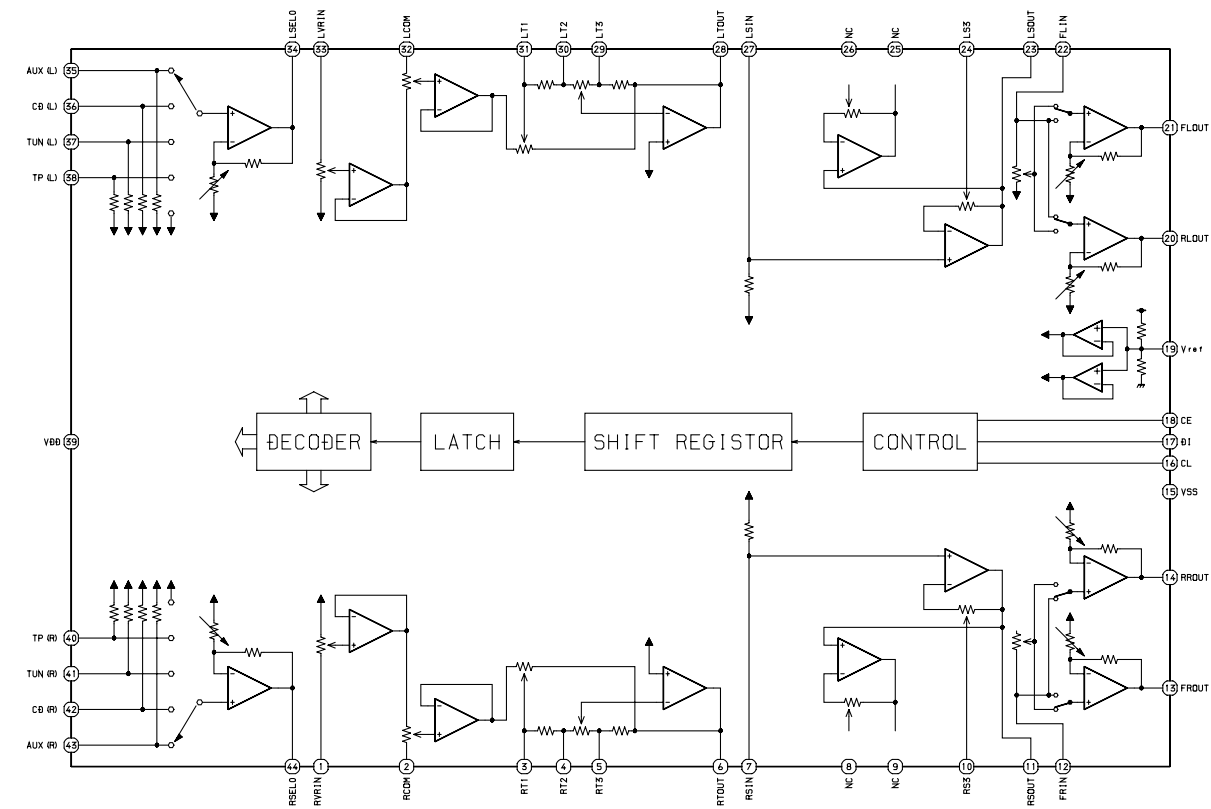


IC BLOCK DIAGRAM-1

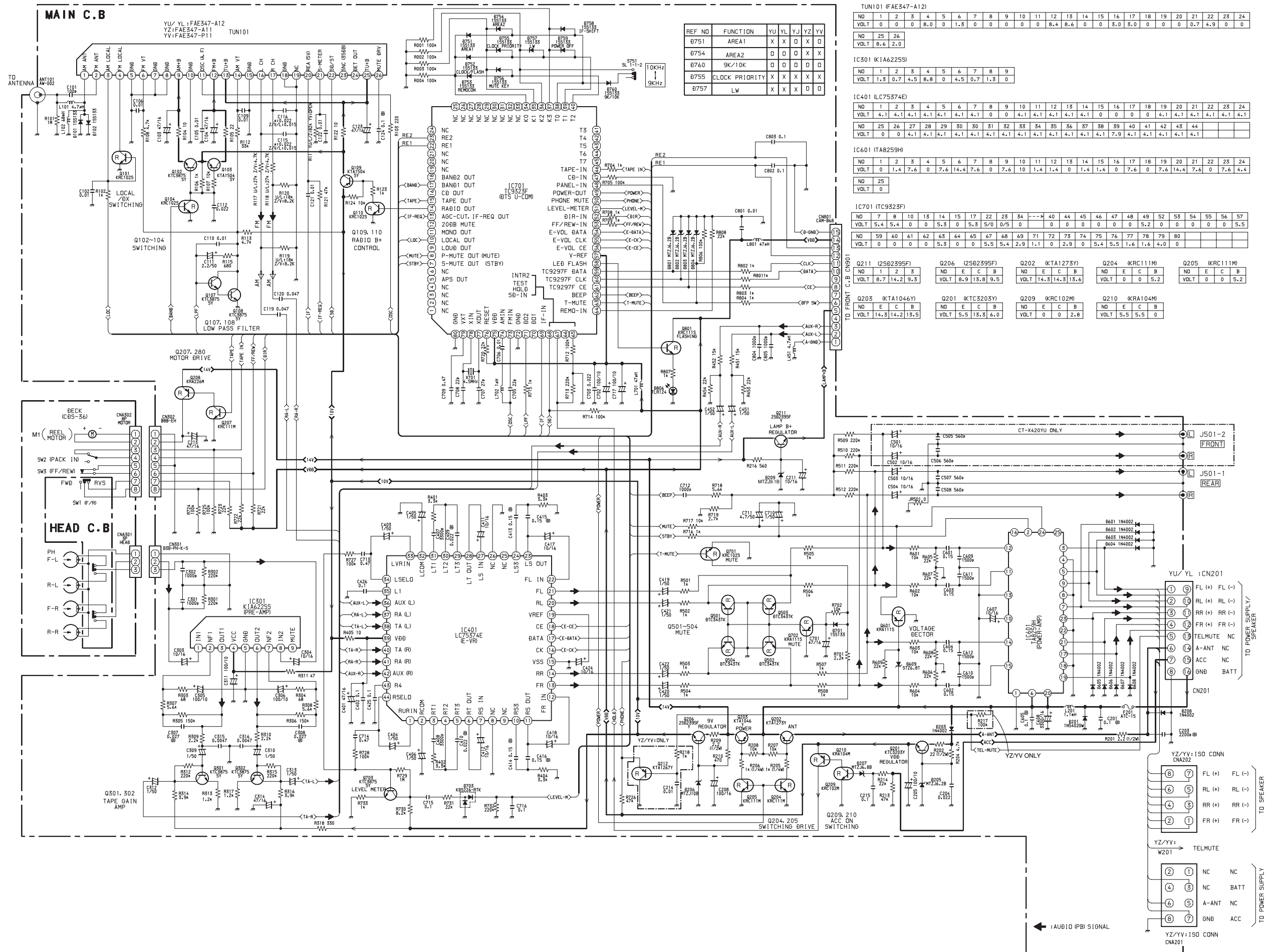
IC, TC9297FB

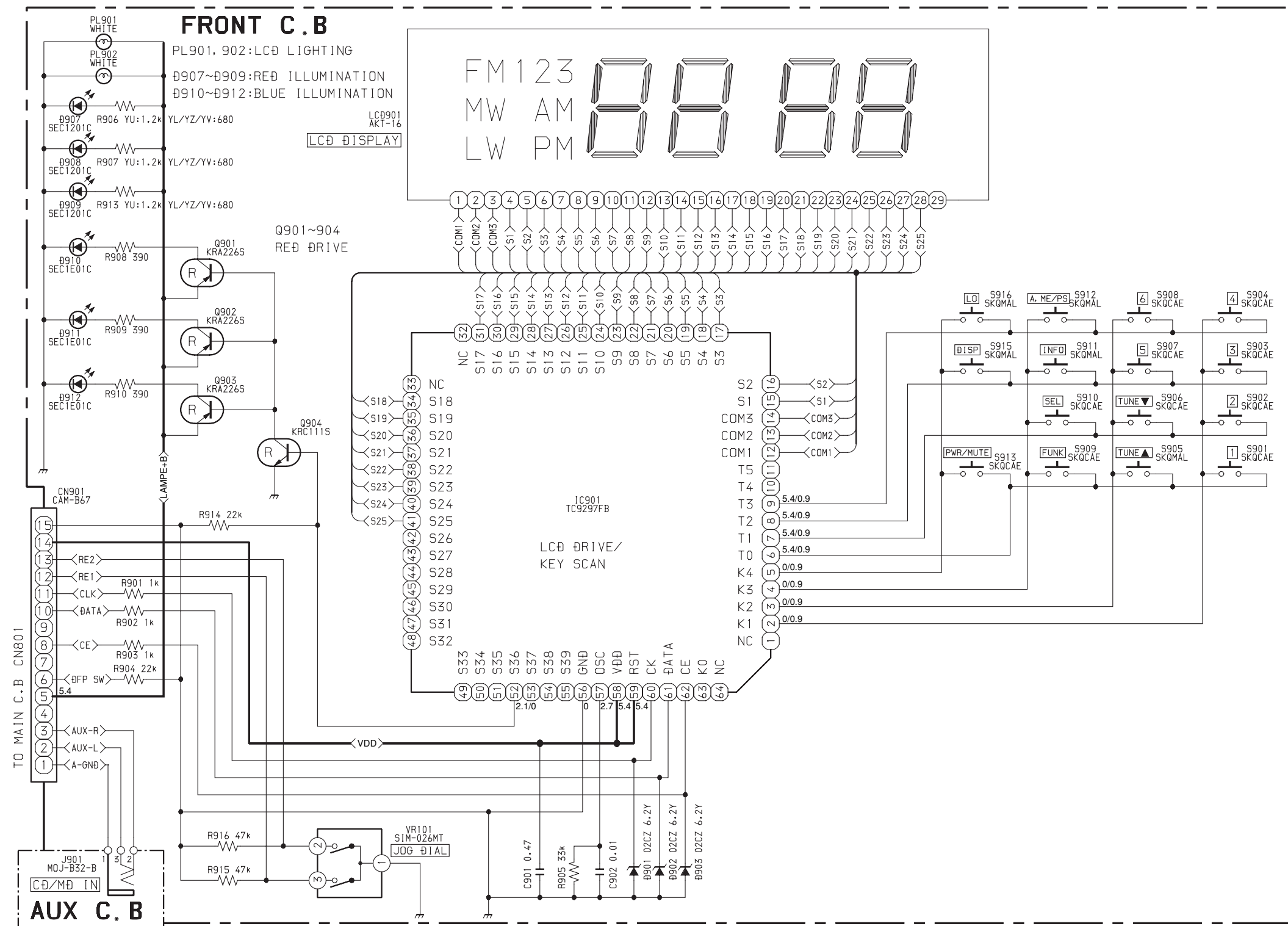


IC, LC75374E

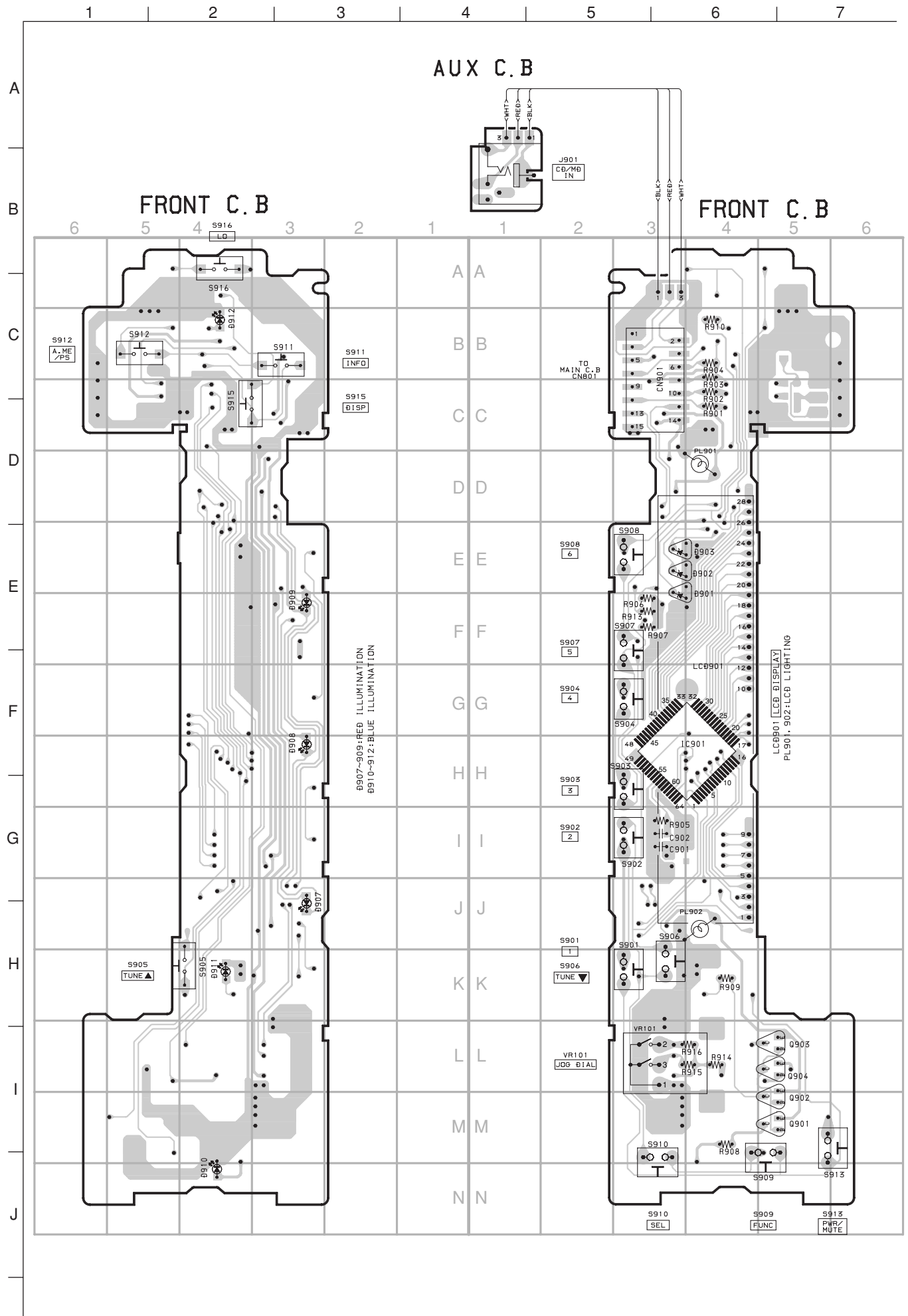


SCHEMATIC DIAGRAM-1



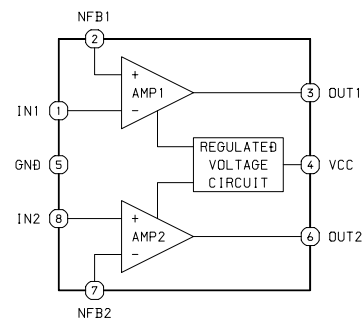


WIRING-2

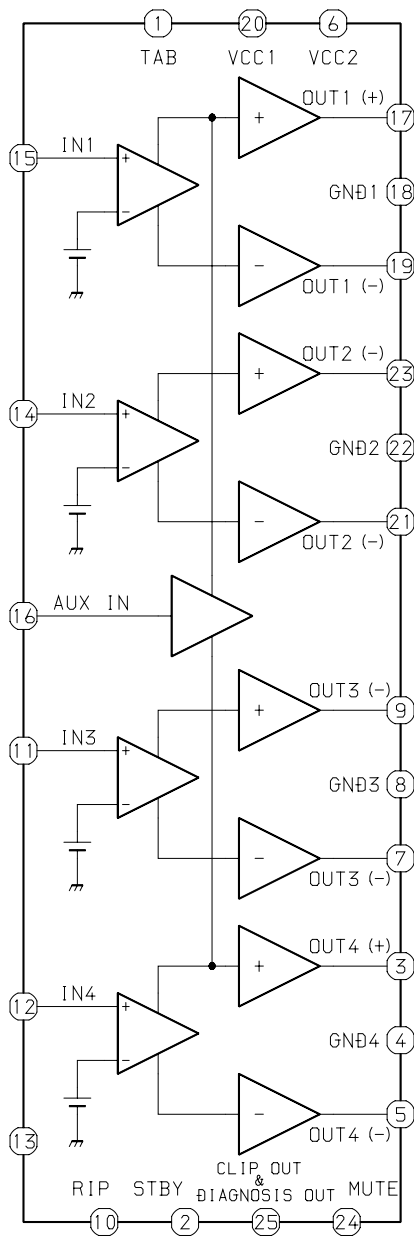


IC BLOCK DIAGRAM-2

IC, KIA6225S



IC, TA8259H



IC DESCRIPTION

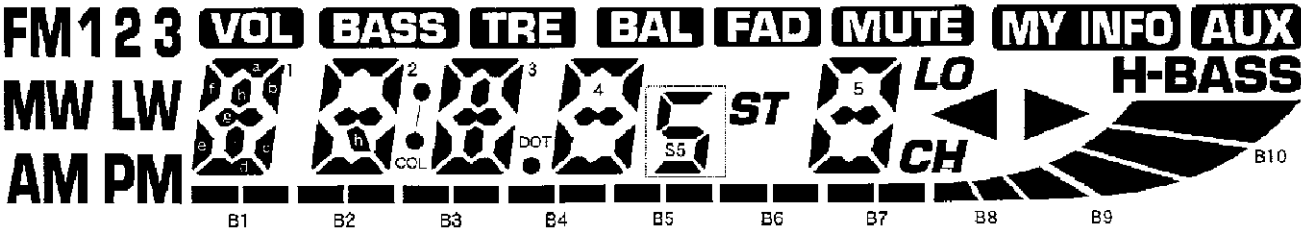
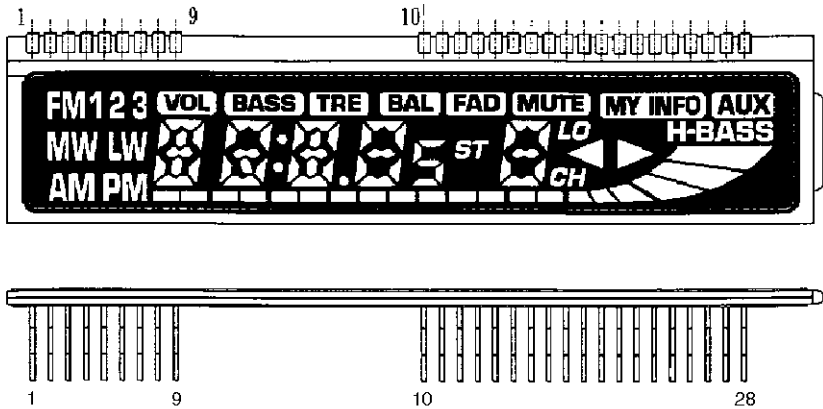
IC, TC9323F

Pin No.	Pin Name	I/O	Description															
1 ~ 4	N.C	–	Not connected.															
5	$\overline{\text{APS}}$	O	MS signal output															
6	N.C	–	Not connected.															
7	S-MUTE	O	Standby muting output															
8	P-MUTE	O	Muting output to power amp															
9	LOUD	O	Loudness output															
10	LOCAL	O	Local/DX switching output. LOCAL: "H", DX: "L"															
11	MONO	O	MONO/STEREO switching output. MONO: "H", STEREO: "L"															
12	20dB MUTE	O	-20dB muting output. This function is enabled when the -20dB muting jumper is selected.															
13	AGC CUT/IF REQ	O	Outputs "H" during searching of frequency. This is an IF count control signal or used to shut off the AGC circuit.															
14	RADIO	O	RADIO output															
15	TAPE	O	TAPE output															
16	CD	O	CD output															
17	BAND 1	O	Band switching outputs <table border="1"><tr><td></td><td>BAND1</td><td>BAND2</td></tr><tr><td>FM</td><td>H</td><td>L</td></tr><tr><td>MW</td><td>L</td><td>L</td></tr><tr><td>LW</td><td>L</td><td>H</td></tr><tr><td>FM (L)</td><td>H</td><td>H</td></tr></table>		BAND1	BAND2	FM	H	L	MW	L	L	LW	L	H	FM (L)	H	H
	BAND1	BAND2																
FM	H	L																
MW	L	L																
LW	L	H																
FM (L)	H	H																
18	BAND 2	O																
19 ~ 21	N.C	–	Not connected															
22	RE1	I	Rotary encoder input 1															
23	RE2	I	Rotary encoder input 2															
24 ~ 33	N.C	–	Not connected															
34 ~ 37	K0 ~ K3	I	Key matrix inputs															
38 ~ 45	T0 ~ T7	O	Diode matrix outputs															
46	TAPE	I	TAPE input															
47	CD	I	CD input. "H" CD input enables the CD key.															
48	PANEL	I	Detects detachable panel (0.2-0.5 s chattering time is provided). Panel provided: "H", Panel not provided: "L"															
49	POWER	O	Power output															
50	PHONE MUTE	I	The telephone signal automatically applies muting.															
51	LEVEL METER	–	The signal level is converted to a digital signal. This meter signal moves the LCD level bar according to the level.															
52	DIR	I	TAPE running direction indicator input															
53	FF/REW	I	TAPE FF/REW indicator input															
54	E-VOL DATA	O	Pins to control the LC75374E electronic VR.															
55	E-VOL CK																	
56	E-VOL CE																	

Pin No.	Pin Name	I/O	Description
57	V-REF	I	Reference voltage pin
58	LED FLASH	O	This function is enabled when the ACC input is "L" and PANEL input is "L". "H" causes flashing for 0.1 s and "L" causes 0.9 s flashing. This output is disabled when the LED FLASH jumper is "H".
59	DATA	I/O	For communications with LCD driver and key input IC TC9297F.
60	CLK	O	
61	CE	O	
62	BEEP	O	Buzzer output
63	T-MUTE	O	Tuner muting output
64	REMO-IN	I	Interrupt of remote control signal
65	INTR 2	I	Not used.
66	TEST	I	Test mode control input
67	HOLD	I	Monitors that the power is turned on with ignition switched on.
68	SD-IN	I	SD signal input
69	IF-IN	I	IF signal input
70, 71	DO1, DO2	O	DO outputs
72	GND	–	GND
73	FMIN	I	FM/AM local oscillator signal input
74	AMIN		
75	VDD	–	VDD terminal
76	$\overline{\text{RESET}}$	I	Reset input
77	XOUT	O	For the connection of a crystal oscillator
78	XIN	I	
79	VXT	–	
80	GND	–	GND

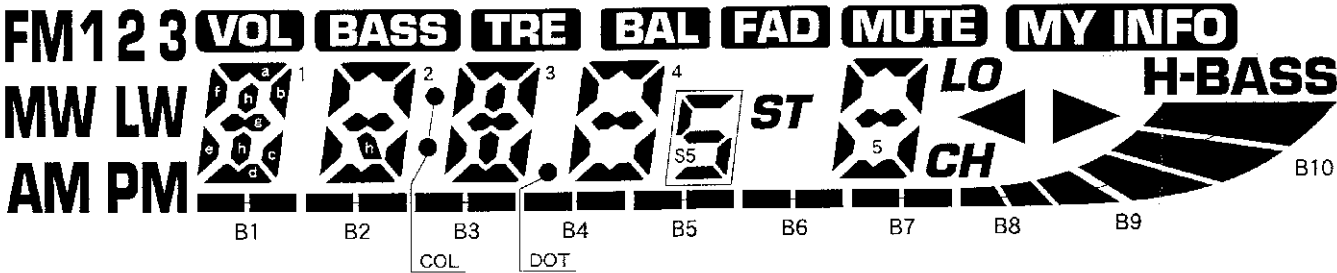
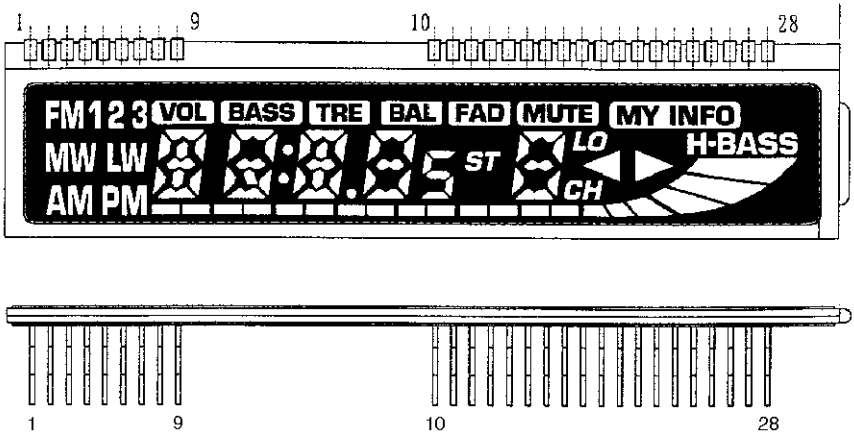
LCD DISPLAY

Parts No. 8A-KTG-610-010 [Except for CT-X320YV]

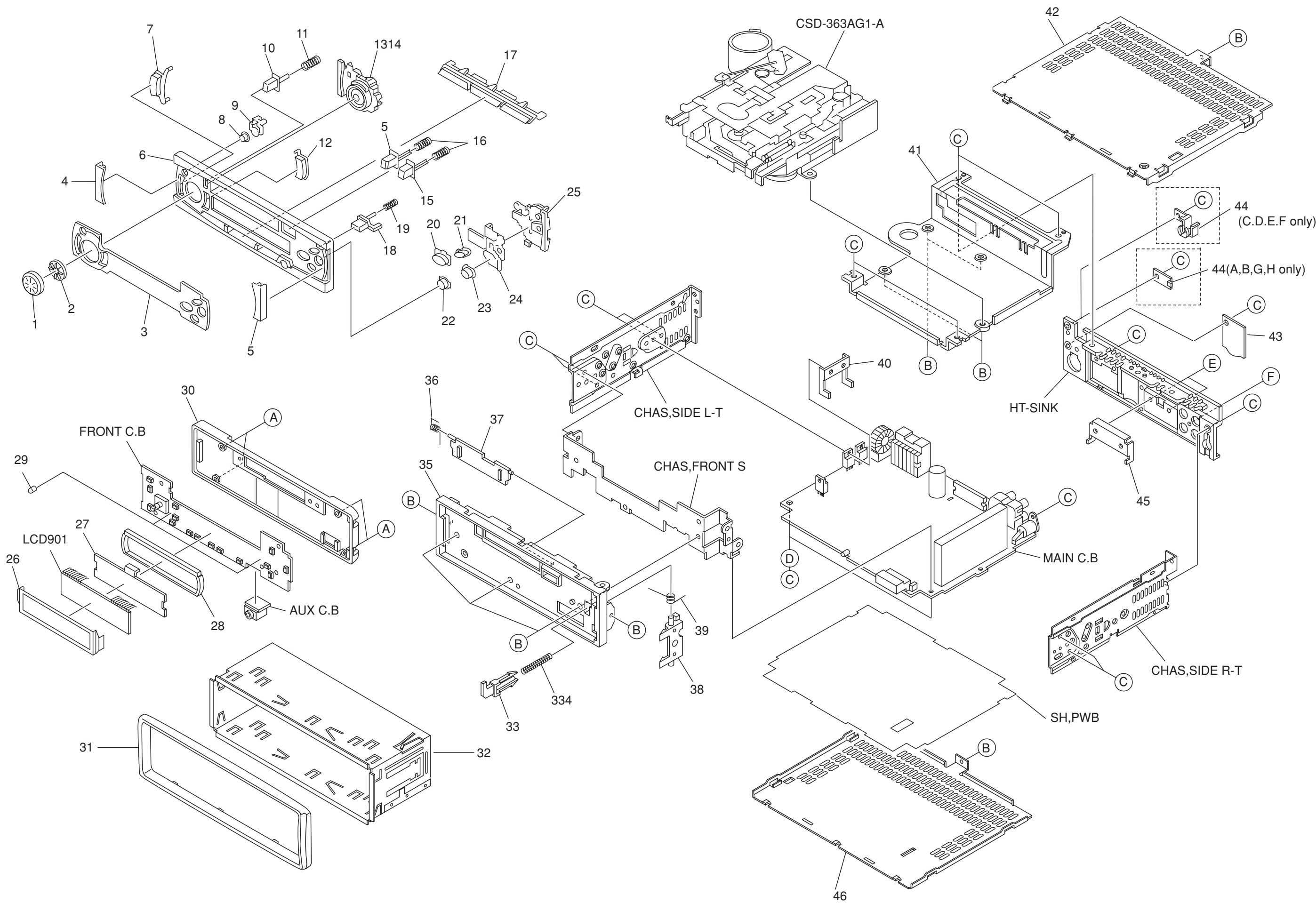


No	COM1	COM2	COM3
1	—	—	COM3
2	—	COM2	—
3	COM1	—	—
4	FM	MW	AM
5	1	LW	PM
6	2	3	B1
7	1a	1f	1e
8	1b	1g	1d
9	VOL	1c	1h
10	2a	2f	2e
11	2b	2g	2d
12	BASS	2c	2h
13	—	COL	B2
14	TRE	—	B3
15	3a	3f	3e
16	3b	3g	3d
17	DOT	3c	3h
18	4a	4f	4e
19	4b	4g	4d
20	BAL	4c	B4
21	FAD	S5	B5
22	MUTE	ST	B6
23	5a	5f	5e
24	5b	5g	5d
25	LO	5c	B7
26	MY-INFO	CH	B8
27	AUX	◀	B9
28	H-BASS	▶	B10

Parts No. 8A-KTG-610-010 [CT-X320YV]



No	COM1	COM2	COM3
1	—	—	COM3
2	—	COM2	—
3	COM1	—	—
4	FM	MW	AM
5	1	LW	PM
6	2	3	B1
7	1a	1f	1e
8	1b	1g	1d
9	VOL	1c	1h
10	2a	2f	2e
11	2b	2g	2d
12	BASS	2c	2h
13	—	COL	B2
14	TRE	—	B3
15	3a	3f	3e
16	3b	3g	3d
17	DOT	3c	3h
18	4a	4f	4e
19	4b	4g	4d
20	BAL	4c	B4
21	FAD	S5	B5
22	MUTE	ST	B6
23	5a	5f	5e
24	5b	5g	5d
25	LO	5c	B7
26	MY-INFO	CH	B8
27	—	◀	B9
28	H-BASS	▶	B10



MECHANICAL MAIN PARTS LIST 1/1

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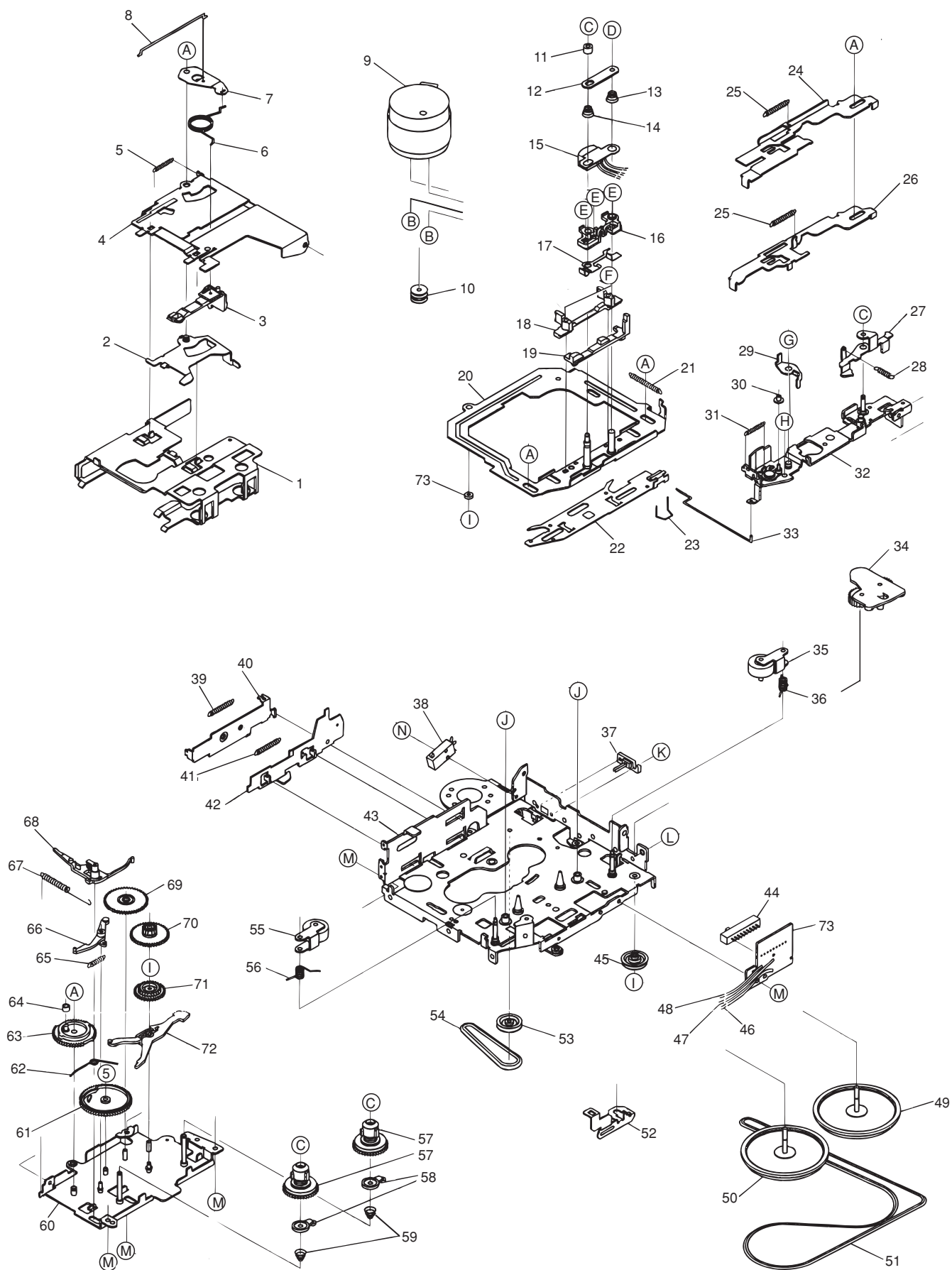
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KTF-020-010		KNOB,RTRY NON RUBBER	24	8A-KT5-211-010		HLDR,BTN DISP
2	8A-KT5-021-010		RING,RTRY A	25	8A-KTF-206-010		LENS,R F
3	8A-KTG-017-010		WINDOW,LCD X310<C>	26	8A-KTG-201-010		HLDR,LCD G
3	8A-KTG-010-010		WINDOW,LCD X320<E,F>	27	8A-KTG-203-010		LENS,LCD G
3	8A-KTG-016-010		WINDOW,LCD X325<D>	28	8A-KTG-202-010		CASE,LCD G
3	8A-KTG-005-010		WINDOW,LCD X410	29	8Z-KT1-239-0100		CAP,LAMP BLU B<EXCEPT C>
3	8A-KTG-006-010		WINDOW,LCD X4100<G>	29	8Z-KTG-209-010		CAP,LAMP ORN<C>
3	8A-KTG-007-010		WINDOW,LCD X4150<H>	30	8A-KTF-002-010		CABI,REAR F
3	8A-KTG-002-010		WINDOW,LCD X420<A>	31	8A-KTF-003-010		CABI,TRIM F
4	8A-KT4-011-010		WINDOW,L 4<C>	32	8Z-KT1-231-010		HLDR,HALF -T
4	8A-KTF-004-010		WINDOW,L F<EXCEPT C>	33	8Z-KTA-203-010		LEVER,DFP LOCK -T10
5	8A-KT4-010-010		WINDOW,R 4<C>	34	8Z-KTA-221-010		SPR-C,DETACH LOCK-T10
5	8A-KTF-005-010		WINDOW,R F<EXCEPT C>	35	8A-KTF-014-010		CABI,BASE F
6	8A-KTG-001-010		CABI,FRONT G	36	8Z-KT1-244-010		SPR-T,DOOR Z
7	8A-KTF-013-010		BTN,FNC F	37	8Z-KT1-023-110		DOOR,CASS
8	8A-KT5-012-010		BTN,PWR<EXCEPT C>	38	8Z-KTA-204-110		LEVER,DEF HOOK -T10
8	8A-KT4-005-010		BTN,PWR 4<C>	39	8Z-KTA-222-010		SPR-T,DETACH LOCK-T10
9	8A-KT5-210-010		HLDR,BTN MU	40	8A-KT5-204-010		HLDR,TR
10	8A-KTF-010-010		BTN,EJECT F	41	8A-KTF-202-010		HLDR,DECK F
11	8Z-KTA-226-010		SPR-C,EJECT	42	8Z-KT1-211-010		COVER, TOP -T
12	8A-KTG-003-010		BTN,UP/DN G	43	8Z-KT4-201-010		COVER, CD BLIND -T
13	8A-KTF-205-010		LENS,ENCO F	44	8Z-KT5-201-010		COVER, ISO BLIND -T<A,B,G,H>
14	8A-KTF-012-010		BTN,REW F	44	8A-KT5-219-010		HLDR,ISO-WIRE 5<C,D,E,F>
15	8A-KTF-011-010		BTN,FF F	45	8A-KTF-201-010		HLDR,IC F
16	87-KTE-205-010		SPR-C,EJ/FF/REW	46	8Z-KT1-212-010		COVER, BOTTOM -T
17	8A-KTG-004-010		BTN,P.SET G	A	8Z-KT1-253-010		S-SCREW,PT 2*8 BH+ BLK
18	8A-KTF-015-010		BTN,DETACH	B	88-KT1-250-010		S-SCREW,THIN HEAD+2.6-4 BLK
19	8Z-KTA-223-010		SPR-C,RELEASE -T10	C	87-251-073-410		SCREW,U+2.6-6
20	8A-KT5-013-010		BTN,DISP<EXCEPT C>	D	87-432-903-010		WASHER,WTE 2.6
20	8A-KT4-007-010		BTN,SEL 4<C>	E	87-251-097-410		U+3-12
21	8A-KT5-014-010		BTN,A/M<EXCEPT C>	F	87-B10-259-010		UT2+3.0-10.0 W/O SLOT (BH TAP)
21	8A-KT4-009-010		BTN,PS 4<C>				
22	8A-KT5-016-010		BTN,INFO<EXCEPT C>				
22	8A-KTG-015-010		BTN,INFO G<C>				
23	8A-KT5-015-010		BTN,LO				

TYPE	MODEL NAME	SUFFIX
A	CT-X420	YU
B	CT-X410	YU
C	CT-X310	YZ
D	CT-X325	YV
E	CT-X320	YZ
F	CT-X320	YV
G	CT-X4100	YL
H	CT-X4150	YL

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MECHANISM EXPLODED VIEW 1/1



MECHANISM MAIN PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S1-013-810-100		HOLDER CASS(X)	49	S1-036-360-100		FLYWHEEL ASSY(F) CPL
2	SX-003-610-190		EJECT CAM LOCK ASSY	50	S1-036-360-110		FLYWHEEL ASSY(R) CPL
3	S1-003-220-070		TAPE HOOKER	51	S1-003-650-040		BELT MAIN
4	S1-013-810-020		HANGER CASS(X)	52	S1-003-610-260		ARM FR(B)
5	S1-003-640-070		EJECT CAM LOCK SPG	53	S1-036-320-030		GEAR PULLEY
6	S1-003-640-230		CENTER PLATE SPG(B)	54	S1-036-350-010		BELT SUB
7	S1-003-610-180		PLATE CENTER	55	SX-036-360-040		PINCH ARM ASSY(R)
8	S1-036-350-070		RETURN LINK	56	S1-036-340-040		PINCH ARM(R)
9	S1-003-670-570		MOTOR	57	SX-036-320-050		REEL SPINDLE ASSY
10	S1-036-330-420		MOTOR PULLEY(MBC)	58	SX-036-360-060		DETECTOR CAM ASSY(V)
11	S1-003-630-320		ROLLER FF(A)	59	S1-013-840-010		BACK TENSION SPG
12	S1-003-610-150		PLATE SPG SUPPORT	60	SX-036-360-010		REEL BASE ASSY
13	S1-003-640-100		ADJUSTER ARM SPG(A)	61	S1-003-620-140		GEAR DETECTR
14	S1-003-640-110		ADJUSTER ARM SPG(B)	62	S1-003-640-150		DASH SPG
15	S1-036-370-040		HEAD	63	S1-003-620-100		GEAR SELECTOR
16	S1-013-820-053		ADJUSTER ARM BLUE	64	S1-003-630-180		COLLER(SELECTOR GEAR)
17	S1-013-810-060		ADJUSTER SHIM(X)	65	S1-003-640-030		GEAR LOCK ARM SPG
18	S1-003-820-180		GUIDE TAPE	66	S1-003-820-140		GEAR LOCK ARM
19	S1-036-320-060		LINK ADJUSTER(B)	67	S1-003-840-140		RATCHET SPG
20	SX-036-310-020		HEAD PLATE ASSY	68	S1-003-620-070		RATCHET
21	S1-003-640-060		PLATE SPG HEAD	70	S1-003-620-040		GEAR REDUCTION(A)
22	SX-036-310-040		FR CONVRT ARM ASSY(A)	71	S1-003-620-010		GEAR IDLE
23	S1-003-640-170		SW SELECT ARM SPG	72	S1-003-620-090		ARM SENSOR
24	S1-003-610-510		LEVER FF(AT)	73	S1-036-330-070		ROLLER HP(A)
25	S1-003-640-010		LEVER SPG FF/REW	A	S2-171-200-501		E-RING 2
26	S1-003-610-530		LEVER REW(AT)	B	S2-103-200-25C		SCREW,M2-2.5
27	S1-003-610-290		ARM LOCK(A)	C	S1-003-650-240		PSW(REEL)B 1.5-3.2-0.25
28	S1-003-640-020		LEVER SPG LOCK	D	S2-101-200-40C		SCREW,M2-4
29	S1-003-610-230		LEVER CHANG(B)	E	S1-013-850-020		SCREW,M2-5
30	S1-036-330-110		ROLLER PROGRAM	F	S2-103-200-70C		SCREW,M2-7
31	S1-003-640-080		ARM SPG PROGRAM	G	S2-171-250-601		E-RING 2.5
32	SX-036-360-020		LEVER BRACKET ASSY	H	S2-133-200-40C		SCREW,S-TYPE M2-4
33	S1-036-350-030		SELECTOR LINK(B)	I	S2-181-200-30D		PSW-S 1.2-3.0-0.25
34	SX-036-360-030		TU GEAR ARM ASSY	J	S2-181-600-32E		LMW-S 1.6-3.2-0.35
35	SX-036-360-050		PINCH ARM ASSY(F)	K	S2-133-170-40C		SCREW,S-TYPE M1.7-4
36	S1-036-340-030		PINCH ARM SPG(F)	M	S2-138-200-30C		SCREW,B-TYPE M2-3
37	S1-036-370-010		SW,MUTE	N	S2-133-170-60C		SCREW,S-TYPE M1.7-6
38	S1-036-370-050		SW POWER				
39	S1-003-620-030		GEAR REDUCTION(B)				
39	S1-036-340-050		LEVER SPG EJECT				
40	S1-003-610-070		LEVER EJECT				
42	S1-036-310-030		CAM EJECT				
42	S1-036-340-060		CAM SPG EJECT				
44	S1-036-370-020		SW,SLLLLLIDE				
45	S1-005-820-215		IDLE PULLEY(A)				

