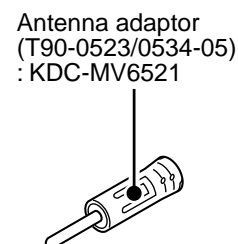
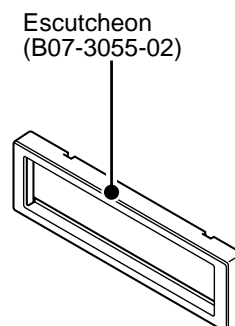
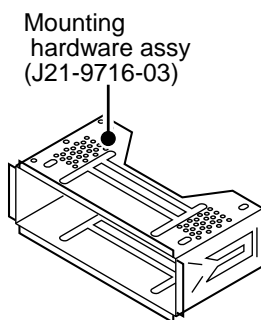
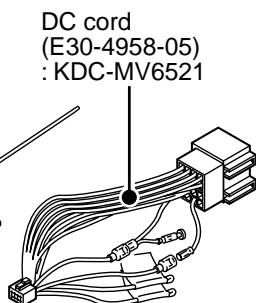
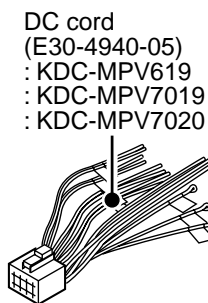
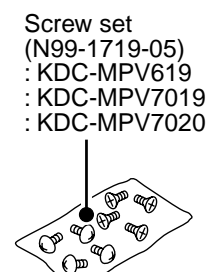
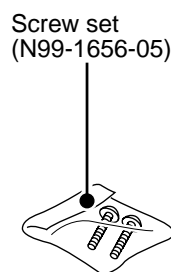
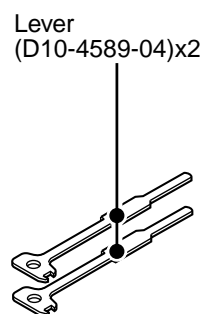
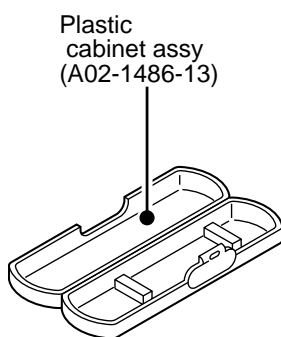
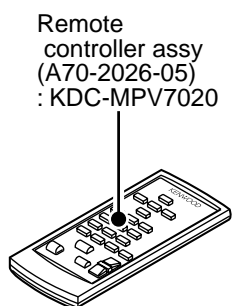
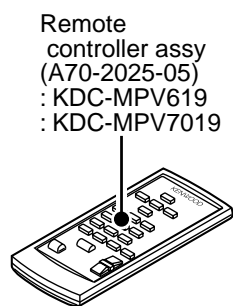
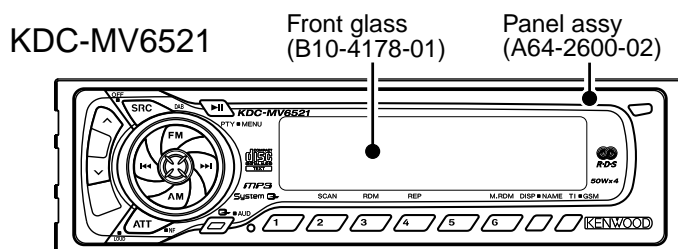
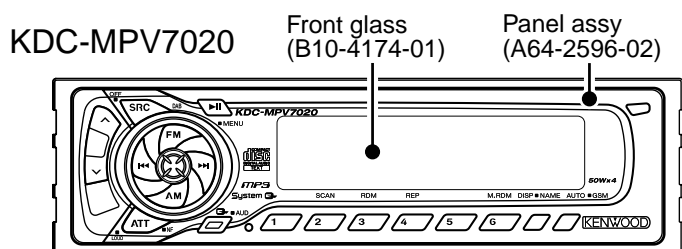
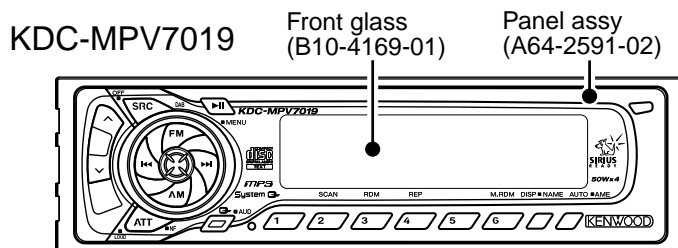
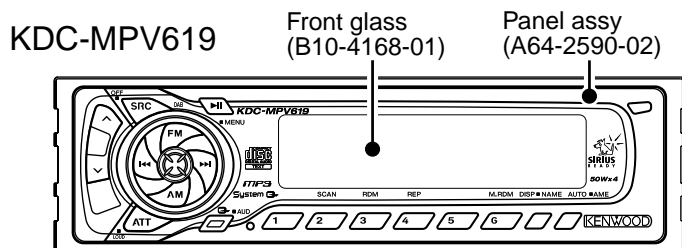


KDC-MPV619/MPV7019 KDC-MPV7020/MV6521 SERVICE MANUAL

- This service manual does not include information on the CD mechanism assembly (exploded view, parts list, schematic diagram or mechanism operation description).
For such information, please refer to the CD mechanism assembly service manual (X92-4460-0x : B51-7891-00).



KDC-MPV619/MPV7019/MPV7020/MV6521

COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-1620-10/X16-1652-70)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	LC75808W	LCD driver with key matrix	
IC2	RS-171	Remote control sensor IC	
IC3	M62333FP	D/A converter	The brightness control of red, green and blue colour
Q1	DTA114EUA or KRA302	Key permission SW	For the key scanning start and the key detection SW
Q3	2SD2114K	Key illumination red SW	When a base goes Hi, RED LEDs are turned on.
Q4	2SD2114K	Key illumination green SW	When a base goes Hi, GREEN LEDs are turned on.
Q5	2SC4081	VLCD AVR	For LCD driver IC
Q6	DTA114EUA or KRA302	5V SW	While a base goes Lo, PAN 5V is supplied to the remote control sensor IC and D/A converter IC.
Q50	2SC4081	V-I converter	Current driver for blue LED
Q51	2SC4081	V-I converter	Current driver for green LED
Q52	2SC4081	V-I converter	Current driver for red LED
Q53	2SC4081	V-I converter	Current driver for blue LED
Q54	2SC4081	V-I converter	Current driver for green LED
Q55	2SC4081	V-I converter	Current driver for red LED
Q56	2SC4081	V-I converter	Current driver for blue LED
Q57	2SC4081	V-I converter	Current driver for green LED
Q58	2SC4081	V-I converter	Current driver for red LED
Q59	2SC4081	V-I converter	Current driver for blue LED
Q60	2SC4081	V-I converter	Current driver for green LED
Q61	2SC4081	V-I converter	Current driver for red LED
Q62	2SC4081	Buffer	Control voltage buffer for red LEDs brightness
Q63	2SC4081	Buffer	Control voltage buffer for green LEDs brightness
Q64	2SC4081	Buffer	Control voltage buffer for blue LEDs brightness

● ELECTRIC UNIT (X25-9190-XX/X25-9202-70)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	UPD703030GFA03 or UPD703033GFA05 or UPD703033GFA13	System MI-COM.	
IC2	TDA7407D	E.VOL & N.C.MPX IC	
IC3	HD74HC02FP or TC74HC02AF	Mute logic	2-input NOR x 4
IC4	TA8273H	Power IC	
IC6	NJM2123V-TE2	Switched Op. Amp.	
IC7	SAA6581T	RDS decoder	
IC8	S-80837ANNP	Reset IC	When BU 5V voltage is less than 3.7V, IC outputs Lo.
IC9	TC4066BF(N)	AUX input SW	When 5 pin, 12 pin and 13 pin terminals go Hi, AUX's inputs are selected.
IC10	TC4066BF(N)	Changer input SW	When 5 pin, 12 pin and 13 pin terminals go Hi, Changer's inputs are selected.
IC11	SI-8050JD	CD+5V AVR	DC/DC converter
Q1	DTC143TUA	Audio mute SW	When a base goes Hi, Front R Ch. pre-out is muted.
Q2	DTC143TUA	Audio mute SW	When a base goes Hi, Front L Ch. pre-out is muted.
Q3	DTC143TUA	Audio mute SW	When a base goes Hi, Rear R Ch. pre-out is muted.
Q4	DTC143TUA	Audio mute SW	When a base goes Hi, Rear L Ch. pre-out is muted.
Q5	2SD2114K	Audio mute SW	When a base goes Hi, NON-F R Ch. pre-out is muted.
Q6	2SD2114K	Audio mute SW	When a base goes Hi, NON-F L Ch. pre-out is muted.

KDC-MPV619/MPV7019/MPV7020/MV6521

COMPONENTS DESCRIPTION

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
Q7	DTA124EUA or KRA303	Mute driver for pre-out mute SW	When a base goes Lo, Q7 is turned on for driving NON-F mute SW.
Q8	DTA124EUA or KRA303	Mute driver for pre-out mute SW	When a base goes Lo, Q8 is turned on for driving Front and Rear mute SW.
Q9	DTC144EUA or UN5213	AUX/Changer selection SW	AUX selected : (Q9,Q10)=(ON,ON)
Q10	DTA124EUA or KRA303		Changer selected : (Q9,Q10)=(OFF,OFF)
Q11	2SC4081 or 2SD1819A	BU 5V AVR	While BACKUP is applied, BU 5V AVR outputs +5V.
Q12	2SA2057		Q11 and Q12 are inverted Darlington connection.
Q13	2SA1576A or 2SB1218A	SW 5V	While a base goes Lo, SW 5V is supplied to the microprocessor peripheral circuits.
Q14	2SC4081 or 2SD1819A	A.+8V AVR	When Q14's base goes Hi, Q15 is turned on, and A.+8V AVR outputs +8.3V.
Q15	2SA2057		Q14 and Q15 are inverted Darlington connection.
Q16	DTC124EUA or UN5212	SW14V	A.+8V AVR and SERVO +B AVR ON/OFF control
Q17	DTA124EUA or KRA303		While Q16's base goes Hi, Q17 is turned on, and A.+8V AVR and SERVO +B AVR are working.
Q18	2SD2375	SERVO +B AVR	When Q18's base goes Hi, SERVO +B AVR outputs +7.6V.
Q19	DTC124EUA or UN5212	ILL +B AVR SW	ILL +B AVR ON/OFF control
Q20	DTA124EUA or KRA303		While Q19's base goes Hi, Q20 is turned on, and ILL +B AVR is working.
Q21	2SB1184	ILL +B AVR	While Q22's base goes Hi, Q21 is turned on, and AVR outputs +10.7V.
Q22	2SC4081 or 2SD1819A		Q21 and Q22 are inverted Darlington connection.
Q26	DTC144EUA or UN5213	Small lamp detection SW	When vehicle small lamps turn on, Q26's base goes Hi, and Q26 is turned on .
Q27	DTC114YUA or UN5214	P-CON SW	When Q27's base goes Hi, Q32 is turned on .
Q32	2SB1277(Q,R) or 2SB1434		Works during POWER ON mode.
Q29	DTA124EUA or KRA303	P-CON. protection inhibit SW	Prevents Q30 tuning ON during start-up after power ON.
Q30	2SA1576A or 2SB1218A	P-CON. protection SW	Protect Q32 by turning ON when P-CON output is grounded.
Q28	DTC114YUA or UN5214	P-ANT SW	When Q28's base goes Hi, Q31 is turned on.
Q31	2SB1277(Q,R) or 2SB1434		Works during FM/AM reception mode or RDS reception mode.
Q33	2SC4081 or 2SD1819A	BU detection SW	While BACKUP is applied, a base goes Hi, and Q33 is turned on. When momentary power down has detected, a base goes Lo, and Q33 is turned off.
Q34	2SC4081 or 2SD1819A	ACC detection SW	While ACC is applied, a base goes Hi, and Q34 is turned on.
Q42	DTC124EUA or UN5212	E. VOL. mute SW	When BU detection SW or MI-COM.'s mute is working, a base goes Hi, and Q42 is turned on.
Q43	DTC143TUA	Noise buffer	
Q45	DTC124EUA or UN5212	FM+B SW	When Q45's base goes Hi, Q47 is turned on, and A.+8V is supplied to the F/E. Works during FM reception mode or RDS reception mode.
Q47	2SB1277(Q,R) or 2SB1434		
Q46	DTC124EUA or UN5212	AM+B SW	When Q46's base goes Hi, Q48 is turned on, and A.+8V is supplied to the F/E. Works during AM reception mode.
Q48	2SB1277(Q,R) or 2SB1434		
Q51	2SC4081 or 2SD1819A	CD+5V AVR SW	When a base goes Hi, CD+5V AVR is working.
Q52	DTC143TUA	Composite signal buffer	
Q53	DTA114YUA or UN5114	EJECT illumination/DSI SW	When a base goes Lo, Q53 is turned on.
Q54	DTA114YUA or UN5114	Guide illumination SW	When a base goes Lo, Q54 is turned on.
Q55	2SA1576A or 2SB1218A	Panel 5V SW	When a base goes Lo, Q55 is turned on.

KDC-MPV619/MPV7019/MPV7020/MV6521

MICROCOMPUTER'S TERMINAL DESCRIPTION

● IC1 (ELECTRIC UNIT : X25-9190-XX/X25-9202-70)

Pin No.	Pin name	I/O	Description	Processing Operation
1	L-DATAS	O	Data line to LCD driver	
2	L-CLK	O	Clock output to LCD driver	
3	PLL-DATA	I/O	Data input/output terminal with F/E	
4	PLL-CLK	I/O	Clock output to F/E	
5	AM+B	I/O	AM+B control	Hi: During AM reception
6	FM+B	I/O	FM+B control	Hi: During FM reception, Hi: During FM reception if with RDS, RDBS
7	CH-CON	O	Changer control output	Lo: Standby mode, Hi: Operation mode
8	CH-RST	O	Reset output to changers	┘┘ : Reset
9	EVDD	-	Positive power supply connection terminal	Connected to BU 5V lines.
10	EVSS	-	Ground connection terminal	Connected to GND lines.
11	AFS	O	Noise detection time constant switching terminal	Hi: During FM reception, Lo: During FM seek or AF search
12	BEEP	O	BEEP sound output	
13	REMO	I	Data input from the remote control light sensor or wired remote control	
14	AUX SW	I/O	CH/AUX inputs selector terminal	Hi: AUX inputs, Lo: CH inputs Lo: No AUX inputs model
15	N/F SW	O	N-F selector terminal	Hi: Rear/N-F pre-outs are selected to Front output. Lo: Rear/N-F pre-outs are selected to Rear output. Lo: No Rear/N-F pre-outs model
16	IC2-SDA	I/O	Data line with IC2,CD mechanism MI-COM.	
17	IC2-SCL	I/O	Clock line with IC2,CD mechanism MI-COM.	
18	PRE-MUTE	I/O	Pre-out mute control terminal	Lo: When momentary power down detected, when M-MUTE input is Lo.
19	N/F-MUTE	O	N-F pre-out mute control terminal	Lo: When momentary power down detected, N-F pre-outputs selecting or OFF, when M-MUTE inputs is Lo. Lo: No Rear/N-F pre-outputs model
20	DIMMER-CON	O	Dimmer control output	Not used (N.C.)
21	TEST	-	Test terminal	Not used (Connected to GND lines)
22	SVR	O	Power IC SVR control output	Not used (N.C.)
23	P-MUTE	O	Power IC mute output	Lo: ALL OFF model, POWER OFF mode, TEL MUTE on
24	P-STBY	O	Power IC STBY control output	Hi: Power IC on, ALL OFF mode, Lo: Power IC off
25	MUTE	O	Mute control output	Lo: Mute off, Open: Mute on
26	SW5V	I/O	SW5V control terminal	Lo: SW5V on, Hi-Z: SW5V off
27	BU DET	I	Momentary power down detection input	Hi: When momentary power down detected or BU OFF Lo: BU ON
28	ACC DET	I	ACC detection terminal	Hi: ACC OFF, Lo: ACC ON
29	N.C	O		Not used (N.C.)
30	DIMMER	I	Small lights detection input	Lo: During vehicle small lamps turn on.
31	N.C	O		Not used (N.C.)
32	P-CON	I/O	Power control output	Hi-Z: POWER OFF mode, ALL OFF mode, Hi: POWER ON mode
33	ANT-CON	O	Antenna control output	Hi: During TUNER mode, TI reception mode, last FM mode
34	RESET	I	Reset input terminal	Lo: System reset
35	XT1	I	Sub clock resonator connection terminal	Clock count during POWER OFF mode
36	XT2	-	Sub clock resonator connection terminal	
37	REGC	-	Capacitor connection terminal for regulator inside microprocessor	
38	X2	-	Main clock resonator connection terminal	Oscillation: POWER ON mode, Oscillation stop: POWER OFF mode or momentary power down detected
39	X1	I	Main clock resonator connection terminal	
40	VSS	-	Ground connection terminal	Connected to GND lines.
41	VDD	-	Positive power supply connection terminal	Connected to BU 5V lines.
42	CLKOUT	O	Internal system clock output	Not used (N.C.)
43	CD MECH +B	I/O	MP3 CD mechanism power supply control output	Lo: Power supply on, Hi-Z: Power supply off
44	P-ON	I/O	SW14V control terminal	Lo: POWER OFF mode, Hi: POWER ON mode
45	O-DATA	I/O	Data line with the external display device	Lo: The model without the external display device
46	O-CLK	I/O	Clock line with the external display device	Lo: The model without the external display device
47	O-CE	I/O	CE line with the external display device	Lo: The model without the external display device

KDC-MPV619/MPV7019/MPV7020/MV6521

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin name	I/O	Description	Processing Operation
48	N.C	O		Not used (N.C.)
49	TYPE0	I	Destination type selection terminal 0	
50	TYPE1	I	Destination type selection terminal 1	
51	TYPE2	I	Destination type selection terminal 2	
52	IC2 TYPE0	I	IC2 setting terminal	Lo: Initial value
53	IC2 TYPE1	I	IC2 setting terminal	Lo: Initial value
54	PANEL DET	I	Panel detaching detection input	Lo: Panel attached, Hi: Panel detached
55	GUIDE ILL	O	Guide illumination control output	Lo: Illumination on, Hi-Z: Illumination off Lights-on: Panel tilted Lights-out: Panel detached
56	M-MUTE L	I	Mute request (L Ch.) from CD MECHA. MI-COM.	Lo: Mute request
57	M-MUTE R	I	Mute request (R Ch.) from CD MECHA. MI-COM.	Lo: Mute request
58	BVDD	-	Positive power supply connection terminal	Connected to BU 5V lines.
59	BVSS	-	Ground connection terminal	Connected to GND lines.
60	M RST	O	Reset output to CD mechanism MI-COM.	Lo: Reset
61	M STOP	O	Stop request to CD mechanism MI-COM.	Lo: Stop mode, Hi: Operation mode
62	N.C	O		Not used (N.C.)
63	CD SW3	I	CD down SW detection input	Hi: Chucking
64	LO/EJ	I/O	CD mechanism loading/Eject switching output	Hi: Eject, Lo: Loading, Hi-Z: Stop or Break
65	MOSW	O	CD mechanism loading motor control output	Hi: CD loading/eject action or Break, Lo: other
66	V-ILL CLK	I/O	Clock line with the D/A converter for variable illumination	Lo: Panel detached, When momentary power down detected
67	L INH	O	INH output to LCD driver IC	Lo: When momentary power down detected or Reset
68	V-ILL DATA	I/O	Data line with the D/A converter for variable illumination	
69	L CE	O	CE output to LCD driver IC	
70	PANEL 5V	I/O	Panel 5V control terminal	Lo: 5V on, Hi-Z: 5V off
71	ILL ON	I/O	ILL+B control terminal	Hi: ILL+B on, Hi-Z: ILL+B off
72	EJECT ILL/DSI	I/O	Eject key illumination control terminal	Lo: Illumination on, Hi-Z: Illumination off Lights-on at the panel tilted during POWER ON mode Flashing at the panel detached during POWER ON mode
73	AVCONT	O	A/D converter reference voltage control output	Hi: Active, Connected to AVREF terminal
74	AVDD	-	Positive power supply connection terminal	Connected to BU 5V lines.
75	AVSS	-	Ground connection terminal	Connected to GND lines.
76	AVREF	I	A/D converter reference voltage input terminal	
77	PHONE	I	PHONE detection input	1V or less: TEL MUTE, 2.5V or greater: NAVI MUTE
78	E2PROM DET	I	EEPROM detection input	Lo: No EEPROM, Hi: EEPROM
79	N.C	I		Not used (pull down to GND lines)
80	N.C	I		Not used (pull down to GND lines)
81	FLIP DET	I	Panel connector removing and installing detection input	Lo: Panel attached normally, Hi: Panel detached or tilted
82	N.C	I		Not used (pull down to GND lines)
83	NOISE	I	FM noise detection input	
84	S-METER	I	S-meter input from F/E	
85	R-DATA	I	Data input from the RDS decoder IC	Except RDS, RBDS model: Not used (pull down to GND lines)
86	R-QUAL	I	Quality input from the RDS decoder IC	Except RDS, RBDS model: Not used (pull down to GND lines)
87	IFC-OUT	I	F/E IFC OUT input terminal	Hi: Station detected (Vth=2.5V)
88	CH-MUTE	I	Mute request from changers	Hi: Mute request
89	CH-REQH	O	Request output to changers	Lo: Request
90	R-CLK	I	Clock input from the RDS decoder IC	Except RDS, RBDS model: Not used (pull down to GND lines)
91	CH-REQC	I	Request input from changers	Lo: Request
92	KEY-REQ	I	Communication request from LCD driver IC	
93	CD SW1	I	Loading SW detection input	Lo: Loading start
94	CD SW2	I	12cm disc detection SW input	Lo: 12cm disc detected
95	EJECT	I	Eject key detection input	Lo: Eject key on
96	CD SW4	I	8cm disc detection SW input	Not used (N.C.)
97	CH-DATAC	I	Data input from changers	
98	CH-DATAH	O	Data output to changers	
99	CH-CLK	I/O	Clock input/output with changers	
100	L DATAL	I	Data input from the LCD driver IC	

KDC-MPV619/MPV7019/MPV7020/MV6521

TEST MODE

1. How to enter the test mode

While holding the Preset 1 and Preset 3 keys, reset the unit.

2. How to exit from the test mode

Reset the unit, ACC OFF, power OFF and Panel detached.

(Note) The test mode cannot be terminated by momentary power down.

3. Initial status in the test mode

- Sources : ALL OFF
- Display : All segments are lit.
- Volume : -10dB (displayed as "30")
- Loudness : OFF
- CRSC : OFF regardless of the presence of switching function.
- SYSTEM Q : Flat
- BEEP : When pressing any keys, the buzzer generates a beep at any time.

4. Special display in Tuner mode

When any of the following messages is displayed in Tuner mode, the F/E may be abnormal.

- "TNE2P NG" : The EEPROM is set to the default (unstable values) because the F/E was shipped without passing through the adjustment process, etc.
- "TNCON NG" : Communication with the F/E is not possible.

5. Forced switching of K3I

Each press of the Preset 6 key in Tuner mode should switch K3I from AUTO → Forced Wide → Forced Middle → Forced Narrow → AUTO.

The initial status is AUTO and the display shows these modes as follows.

- AUTO : FMA
- Forced Wide : FMW
- Forced Middle : FMM
- Forced Narrow : FMN

6. Test mode specifications of the CD receiver

- Forced ejection is inhibited in the reset start operation. When the unit is reset while a CD is loaded in it, the CD is not recognized by resetting.
- Each press of the Track Up key jumps to the following track numbers:
No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 14 → No. 9 (The cycle restarts from here.)
- Each press of the Track Down key jumps to the previous track number to the track being played.
- When the number of total tracks of the MP3 disc is less than 9, 1st track is played.

7. Audio-related specifications

- A short press of the Q key initiates the audio adjustment mode.
- Pressing the * key on the remote initiates the audio adjustment mode.
- Fader is selected to the initial item.
- Continuous holding of a remote control key is inhibited.

- Bass, Middle and Treble are adjusted in 3 steps of Min / Center / Max with the Track Up/Down keys.
- Balance is adjusted in 3 steps of Left Max / Center / Right Max with the Track Up/Down keys.
- Fader is adjusted in 3 steps of Rear Max / Center / Front Max with the Track Up/Down keys.

8. Menu-related specifications

- A short press of the MENU key initiates the Menu mode.
- Pressing the DNPP/SBF key on the remote initiates the Menu mode.
- Continuous holding of a remote control key is inhibited.

9. Backup current measurement

When the unit is reset while ACC is OFF (i.e. by turning Backup ON), the MUTE terminal goes OFF in 2 seconds in place of 15 second. (The CD mechanism is not activated at this time.)

10. Special display when the display is all on

Pressing the Preset keys while the power is ALL OFF displays the following information.

[PRESET 1]	Version display (8 digits, Month/Day/Hour/Minute) (Display) xxxxxxxx : System microcomputer
[PRESET 3]	Short press : View power ON time. (The All OFF period is not counted.) Long press/hold : Clear power ON time at the power ON time displaying. (Display) PON xxxxx Max. 65535 (hours)
[PRESET 4]	Short press : Display CD operation time. Long press/hold : Clear CD operation time at the CD operation time displaying. (Display) CDT xxxxx Max. 65535 (hours)
[PRESET 5]	Short press : Display CD ejection count. Long press/hold : Clear CD ejection count at the CD ejection count displaying. (Display) EJC xxxxx Max. 65535 (times)
[PRESET 6]	Short press : Display Panel open/close count. Long press/hold : Clear Panel open/close count at the Panel open/close count. (Display) PC xxxxxx Max. 655350 (times)

• Security-related information

1. Forced Power ON mode (All models)

Even when the security (Mask key) is approved, resetting the unit while holding the ATT and Preset 4 keys makes it possible to turn the power ON for 30 minutes.

After 30 minutes have elapsed, it is not possible to return to the previous condition unless the unit is reset again.

2. Method of registration of the security code after EEPROM (Tuner Unit Ass'y) replacement (Code security model)

1. Enter the test mode. (See 1. How to enter the test mode)
2. Press the MENU key to enter the Menu mode.

KDC-MPV619/MPV7019/MPV7020/MV6521

TEST MODE / CIRCUIT DESCRIPTION

- When the message "Security" is displayed, press and hold the Track Up/Down key for 1 second to enter the security registration mode.
- Enter the code using the FM/AM/Track Up/Track Down keys.
 - FM key : Number up
 - Am key : Number down
 - Track Up key : Cursor right shift
 - Track Down key : Cursor left shift
- Hold down the Track Up key for at least 3 seconds and the message, "RE-ENTER" appears, so once again enter the code according to Step 4 above.
- Press and hold the Track Up key for 3 seconds until "APPROVED" is displayed.
- Exit from the test mode. (See 2. How to exit from the test mode)
(Note) All Clear is not applicable to the security code of this model.

3. Simplified method of clearing the security code (K Type only)

- While the code entry is requested, press and hold the VOL UP key for 3 seconds while holding the DISP key pressed. (This should turn "----" off.)
- Enter "KCAR" from the remote. (Same way as the 01 model)
 - Press the 5 key on the remote twice, then press the Track Up key. (This enters "K".)
 - Press the 2 key on the remote 3 times, then press the Track Up key. (This enters "C".)
 - Press the 2 key on the remote once, then press the Track Up key. (This enters "A".)
 - Press the 7 key on the remote twice, then press the Track Up key. (This enters "R".)
- The security code is cleared and the unit enters the ALL OFF mode.
- If you commit a mistake in the code entry, the unit enters the code request mode again.

CIRCUIT DESCRIPTION

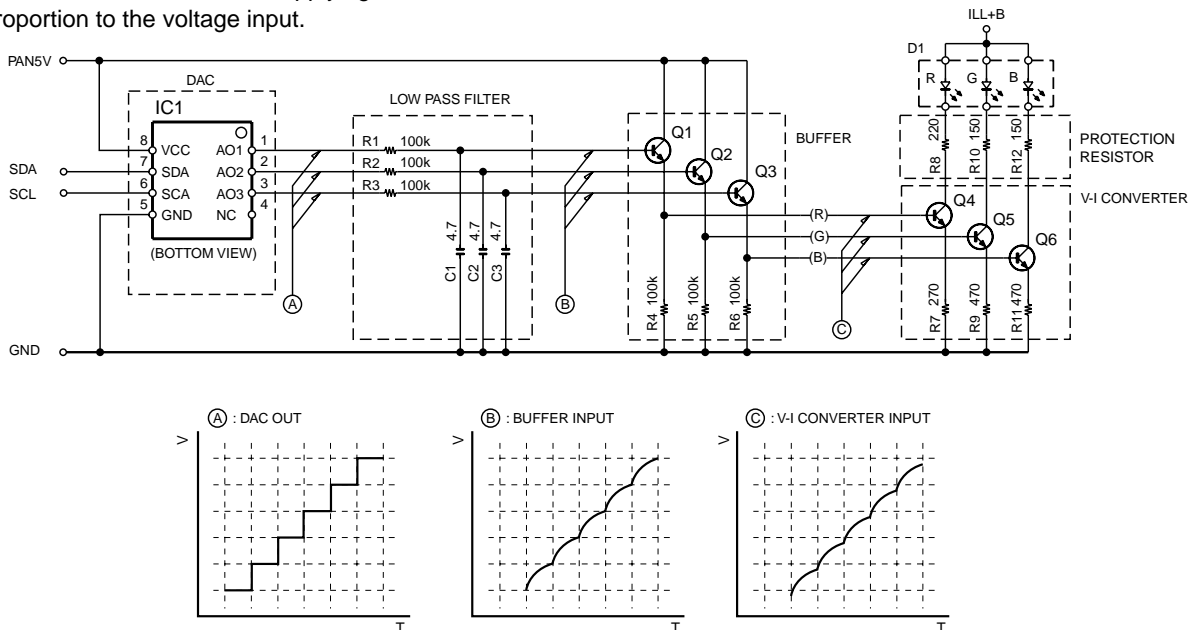
Variable Illumination Circuit

Using a DAC that can be varied in 256 steps between 0V and 5V and varying DAC output voltage, the currents that flow among R7, R9 and R11 are controlled. As a result, the brightness of red, blue and green is adjusted.

Description of Operation

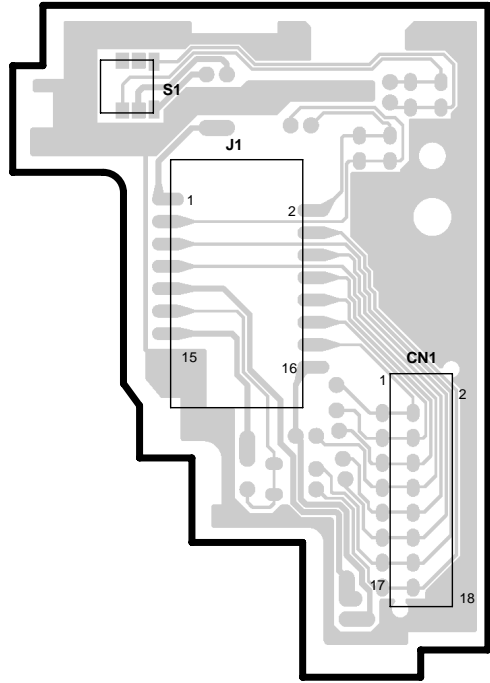
The voltage output from DAC will be in the step-wise waveform as shown in A. When the output voltage is put through R1-3 and C1-3 low-pass filters for removing noise and smoothing voltage waveforms, we get the voltage waveform of B. The voltage that went through the low-pass filters is input to the buffer and that will be the input voltage of the V-I converter in the next stage with the voltage waveform of C. The V-I converter has the function of supplying electric current in proportion to the voltage input.

For example, let us assume that the current flowing in the red LED is I_R , and $I_R = (Q4 \text{ base voltage} - V_{BE})/R7$. From this, I_R flows in proportion to Q4 base voltage. Therefore, V-I converter will supply current in proportion to the voltage input to red, blue and green LED's, which vary the brightness of LED's. The resistor between D1 and V-I converter is the protection resistor for limiting power supplied to transistors (Q4-6).

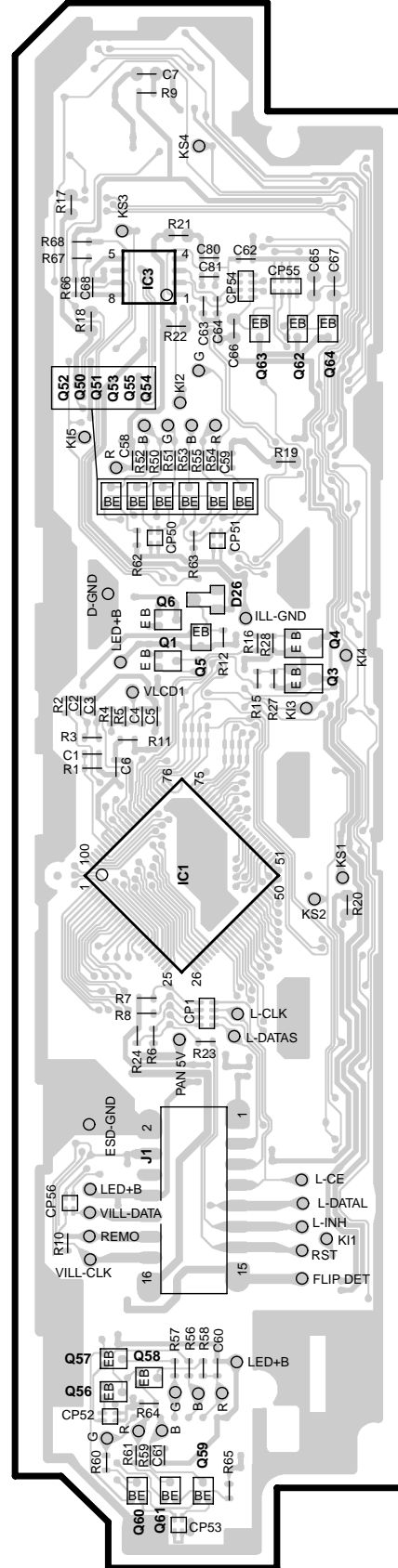


PC BOARD (FOIL SIDE VIEW)

X89-2510-10/2522-70 (J74-1325-02)



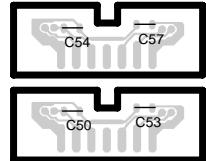
X16-1620-10/1652-70 A/2 (J74-1313-02)



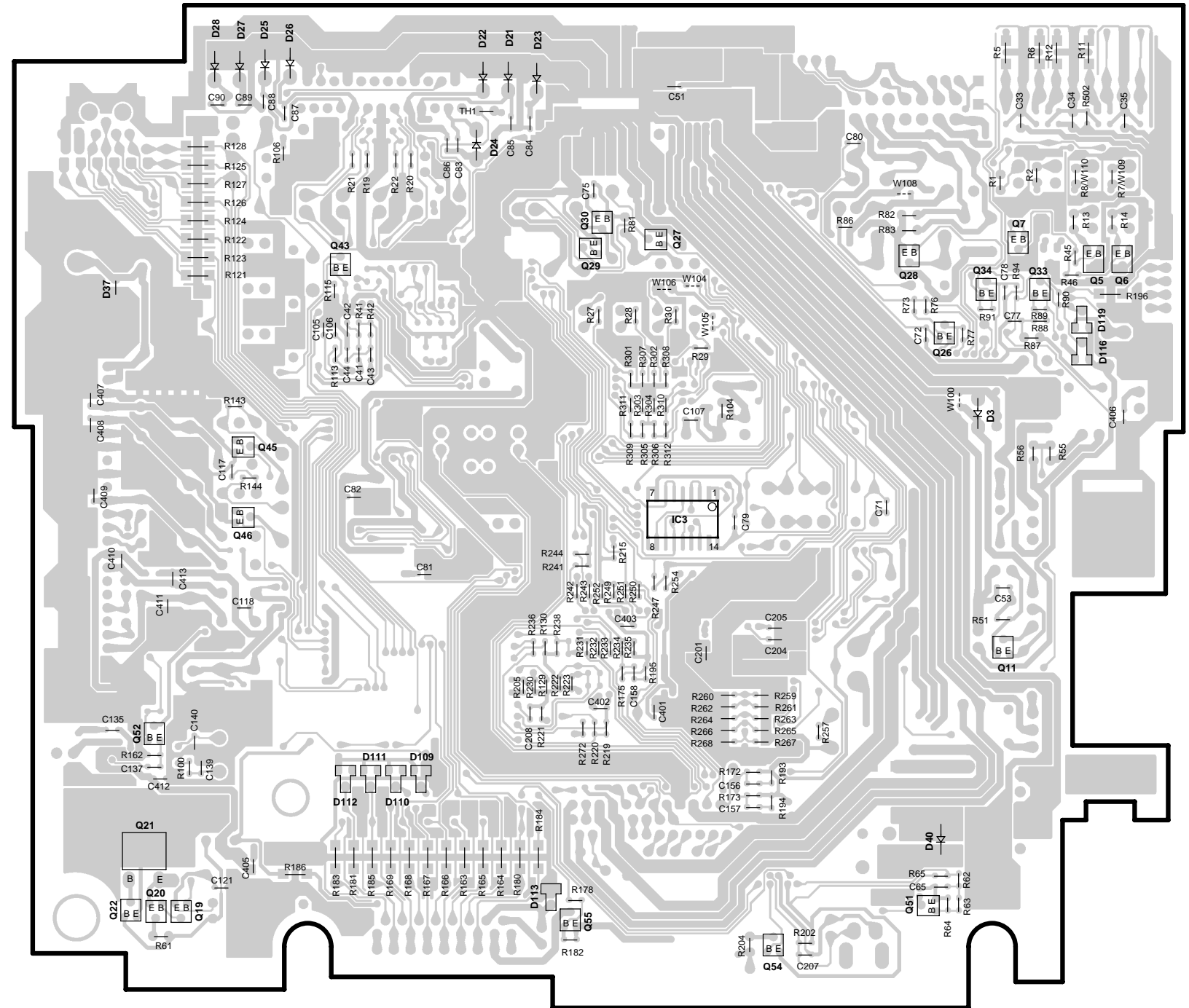
X16-1620-10/1652-70 A/2

IC	Q	address
1		5M
3		2M
	1	4M
	3	4N
	4	4N
	5	4N
	6	4M
	50	3M
	51	3M
	52	3M
	53	3M
	54	3M
	55	3M
	56	6M
	57	6M
	58	6M
	59	7N
	60	7M
	61	7M
	62	3N
	63	3N
	64	3N

X16 B/2



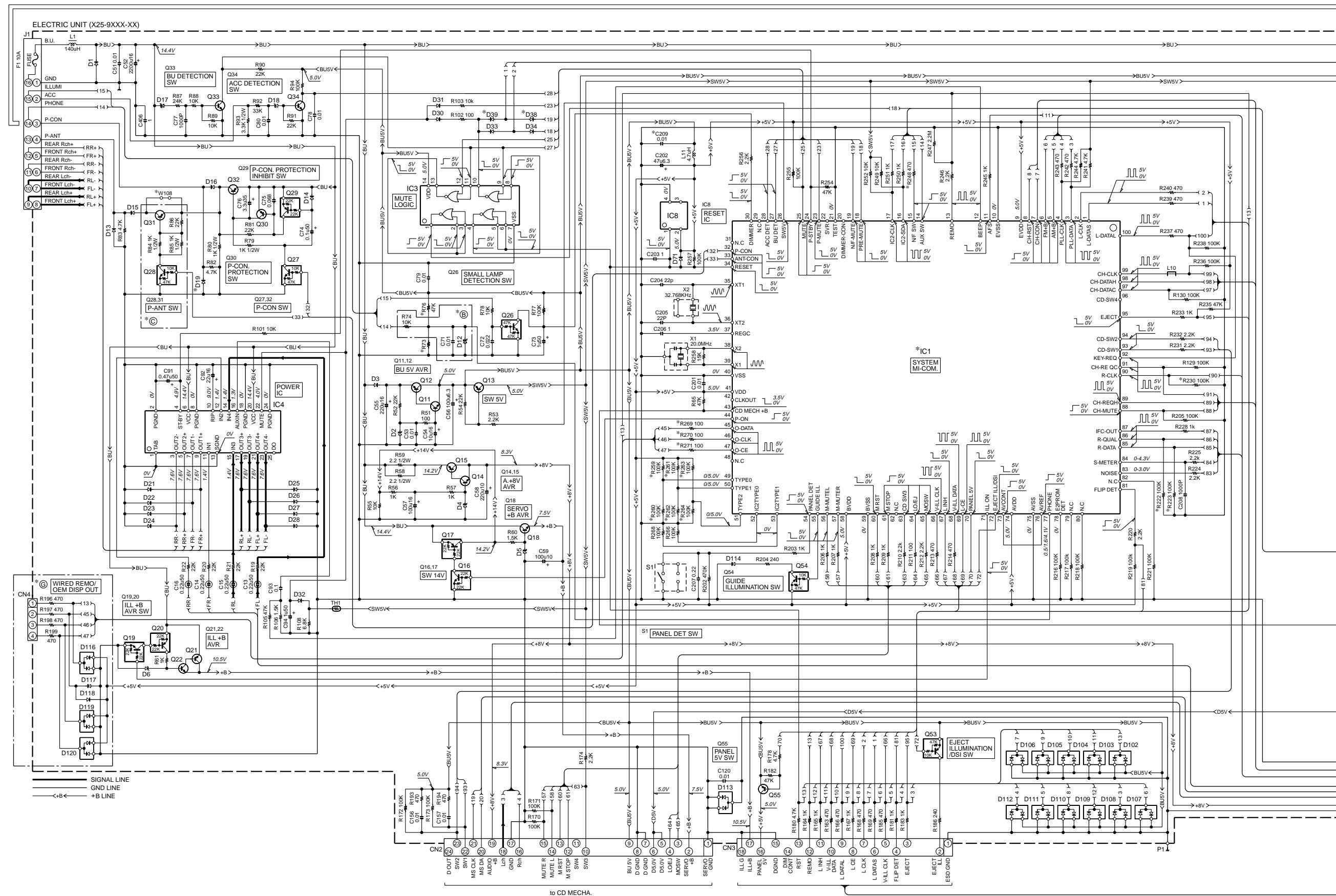
X25-9190-XX/9202-70 (J74-1322-12/1387-12)



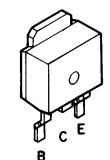
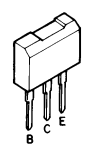
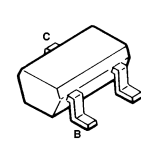
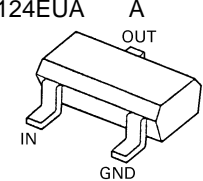
X25-9190-XX/9202-70

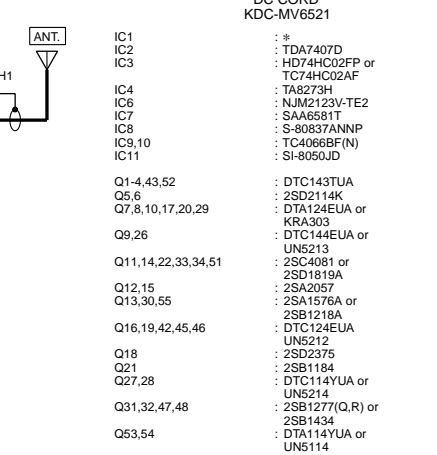
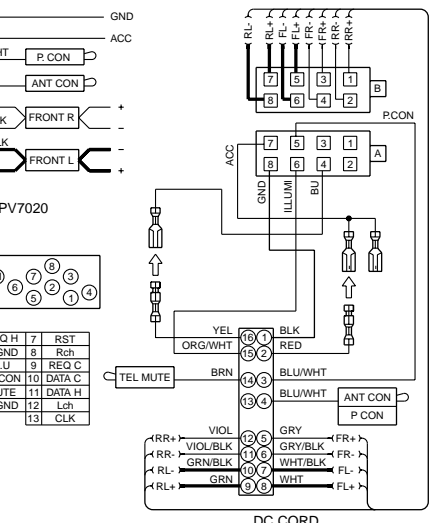
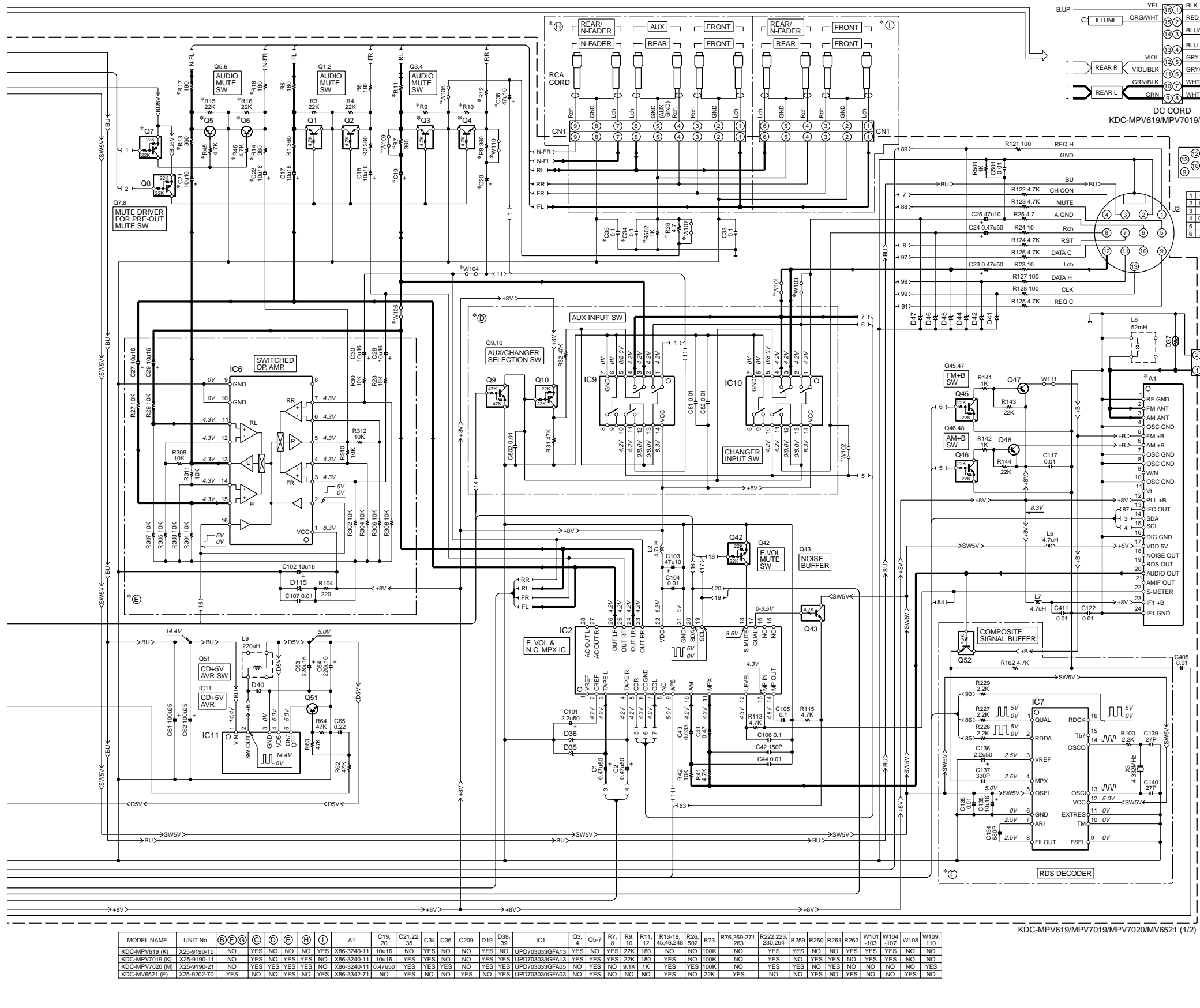
IC	3
Q	5 6 7 11 19 20 21 22 26 27 28 29 30 33 34 43 45 46 51 52 54 55
address	4R 3T 3T 2S 4S 6P 6O 5O 6O 3S 3R 3S 3Q 2Q 3S 3S 3P 3P 4P 6S 5O 6R 6Q

1
2
3
4
5
6
7

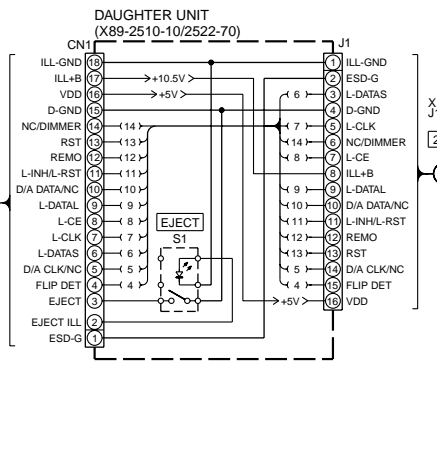


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.
 • DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

- | | | | | | | |
|-----------|----------|---|---|---|---|----------|
| DTC114YU | UN5214 | 2SB1184 | 2SB1277 | 2SC4081 | DTA114EUA | DTC124EU |
| A | 2SA1576A | | | | DTA124EUA | A |
| DTC143TUA | 2SB1218A |  |  |  |  | |
| UN5114 | 2SD1819A | | | | | |
| UN5213 | 2SD2114K | | | | | |

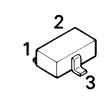


- IC1 : TA7407D
- IC2 : HD74HC02FP or TC74HC02AF
- IC3 : TA8273H
- IC4 : NJM2123V-TE2
- IC6 : SA4651T
- IC7 : S-80837ANNP
- IC8 : TC4066BF(N)
- IC9,10 : SI-8050JD
- IC11 : DTC143TUA
- Q1,4,43,52 : 2SD214K
- Q5,6 : DTA124EUA or KRA303
- Q7,8,10,17,20,29 : DTC144EUA or UN5213
- Q9,26 : 2SC4081 or 2SD1819A
- Q11,14,22,33,34,51 : 2SA2057
- Q12,15 : 2SA1576A or 2SB1218A
- Q13,30,55 : DTC124EUA
- Q16,19,42,45,46 : UN5212
- Q18 : 2SD2375
- Q21 : 2SB1184
- Q27,28 : DTC114YUA or UN5214
- Q31,32,47,48 : 2SB1277(Q,R) or 2SB1434
- Q53,54 : DTA114YUA or UN5114
- D1 : 1N5393G-M5
- D2 : MA4056(N)-M
- D3 : RB160L-40
- D4 : MA4091(N)-L
- D5 : MA4082(N)-L
- D6 : MA4110-L or HZ511B2
- D12 : MA4047-M
- D13,15,16,19 : AMO1Z or DSM1SD2 or ERA15-02
- D14,30-34,38,39,71,117,118 : 1S5133
- D17,18,35,36,45-47 : MA4068(N)-M
- D21-28 : S1J
- D37 : IMSA-6081
- D40 : SFPB-54V
- D41,42,44 : MA4062-L or HZ56C1
- D102-113,116,119,120 : DA204K or KDS226
- D114 : B30-1567-05
- D115 : MTZJ4.3(B)

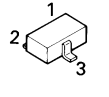


MODEL NAME	UNIT No.	B	F	G	C	D	E	H	I	A1	C19, 20	C21,22, 35	C34	C36	C209	D19	D38, 39	IC1	Q3, 4	Q5-7	R7, 8	R9, 10	R11, 12	R13-18, 45,46,248	R26, 502	R73	R76,269-271, 263	R222,223, 230,264	R259	R260	R261	R262	W101 -103	W104 -107	W108	W109, 110
KDC-MPV619 (K)	X25-9190-10	NO	YES	NO	NO	NO	NO	YES	X86-3240-11	10u16	NO	YES	NO	NO	NO	YES	NO	UPD703033GFA13	YES	YES	22K	180	NO	NO	100K	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	NO
KDC-MPV7019 (K)	X25-9190-11	NO	YES	NO	NO	NO	NO	YES	X86-3240-11	10u16	NO	YES	NO	NO	NO	YES	NO	UPD703033GFA13	YES	YES	22K	180	NO	NO	100K	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	NO
KDC-MPV7020 (M)	X25-9190-21	NO	YES	YES	YES	NO	NO	YES	X86-3240-11	10u16	NO	YES	YES	NO	NO	YES	NO	UPD703033GFA01	NO	YES	NO	1K	1K	YES	YES	100K	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO
KDC-MV6521 (E)	X25-9202-70	YES	NO	NO	YES	NO	NO	YES	X86-3342-71	NO	YES	NO	NO	NO	NO	NO	NO	UPD703033GFA03	NO	YES	NO	NO	NO	NO	22K	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO

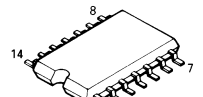
DA204K
DTA114YUA



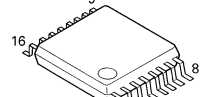
UN5212



TC4066BF
TC74HC02AF



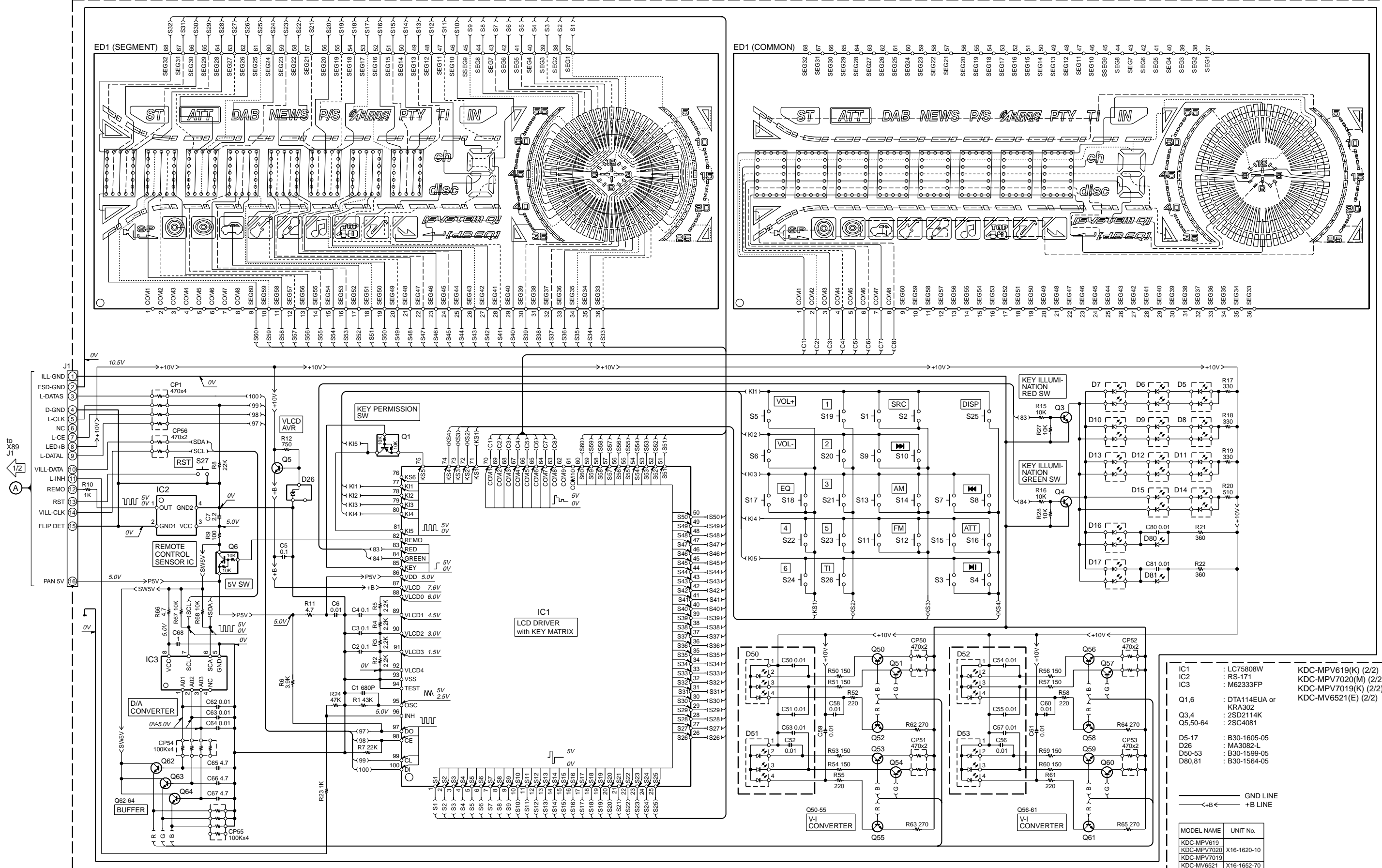
NJM2123V-TE2



KDC-MPV619/MPV7019
KDC-MPV7020/MV6521

KENWOOD

SWITCH UNIT (X16-16XX-XX)



- IC1 : LC75808W KDC-MPV619(K) (2/2)
- IC2 : RS-171 KDC-MPV7020(M) (2/2)
- IC3 : M62333FP KDC-MPV7019(K) (2/2)
- Q1,6 : DTA114EUA or KRA302 KDC-MV6521(E) (2/2)
- Q3,4 : 2SD2114K
- Q5,50-64 : 2SC4081
- D5-17 : B30-1605-05
- D26 : MA3082-L
- D50-53 : B30-1599-05
- D80,81 : B30-1564-05

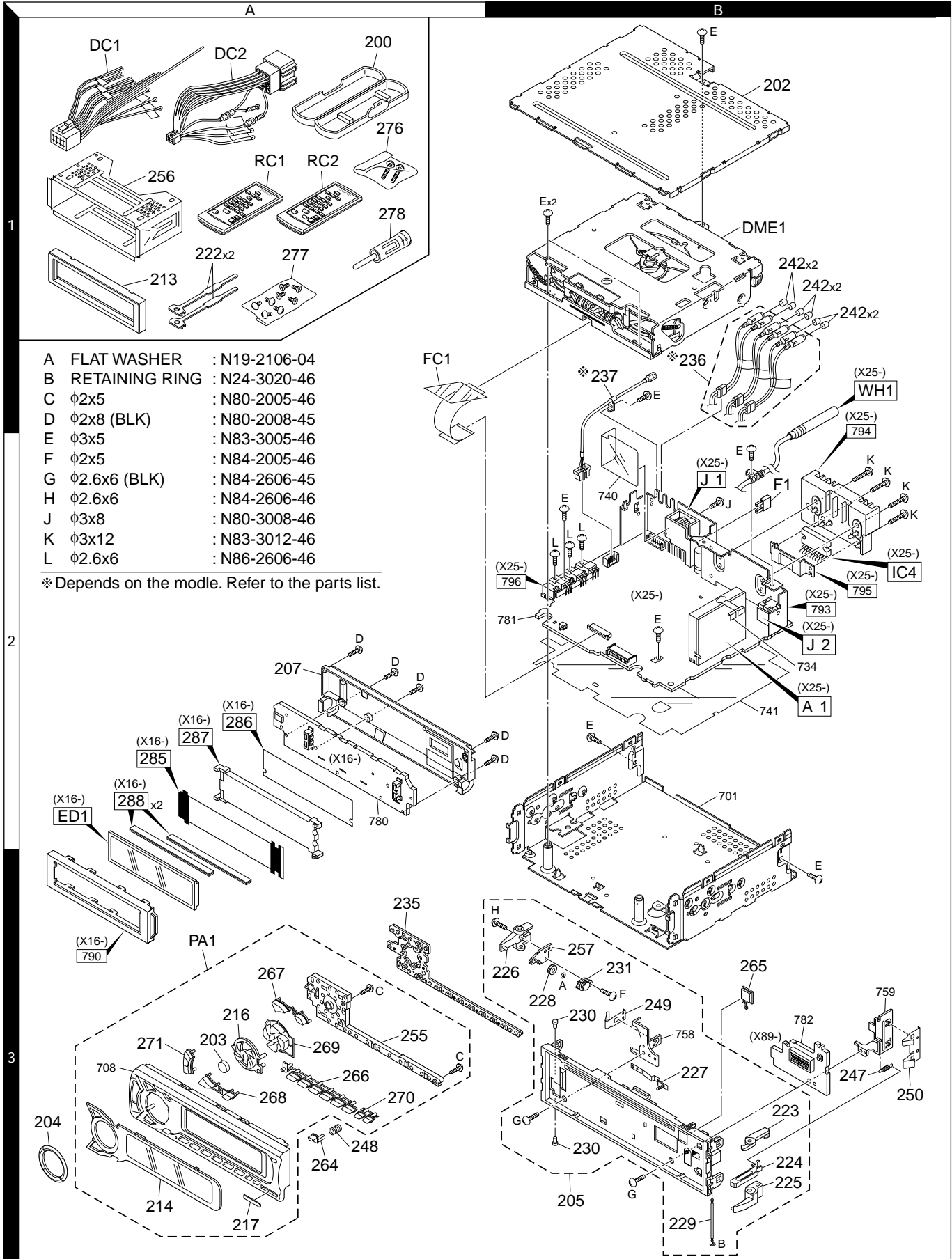
MODEL NAME	UNIT No.
KDC-MPV619	
KDC-MPV7020	X16-1620-10
KDC-MPV7019	
KDC-MV6521	X16-1652-70

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ▲ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.
 • DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-MPV619/MPV7019
 KDC-MPV7020/MV6521
KENWOOD

KDC-MPV619/MPV7019/MPV7020/MV6521

EXPLODED VIEW (UNIT)



KDC-MPV619/MPV7019/MPV7020/MV6521

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
KDC-MPV619/MPV7019/MPV7020/MV6521					
200	1A		A02-1486-13	PLASTIC CABINET ASSY	
202	1B	*	A52-0806-02	TOP PLATE	
203	3A	*	A21-4172-04	DRESSING PANEL (SPRAY)	
204	3A	*	A21-4174-03	DRESSING PANEL (PLATING)	
205	3B	*	A22-2932-02	SUB PANEL ASSY	
207	2A	*	A46-1754-01	REAR COVER	
PA1	3A	*	A64-2590-02	PANEL ASSY	K1
PA1	3A	*	A64-2591-02	PANEL ASSY	K2
PA1	3A	*	A64-2596-02	PANEL ASSY	M
PA1	3A	*	A64-2600-02	PANEL ASSY	E
RC1	1A		A70-2025-05	REMOTE CONTROLLER ASSY (RC-410)	
K1K2					
RC2	1A	*	A70-2026-05	REMOTE CONTROLLER ASSY (RC-420)	M
213	1A		B07-3055-02	ESCUTCHEON (SILVER)	
214	3A	*	B10-4168-01	FRONT GLASS	K1
214	3A	*	B10-4169-01	FRONT GLASS	K2
214	3A	*	B10-4174-01	FRONT GLASS	M
214	3A	*	B10-4178-01	FRONT GLASS	E
216	3A	*	B19-2138-03	LIGHTING BOARD	
217	3A		B43-1284-04	BADGE	
-			B46-0100-50	WARRANTY CARD	
-			B46-0606-04	ID CARD	
K1K2					
-			B46-0612-14	ID CARD	ME
-			B46-0645-03	USER CARD	
K1K2					
-		*	B64-2243-00	INST. MANUAL (ENG,FRE,SPA)	
K1K2					
-		*	B64-2244-00	INST. MANUAL (ENG,T-CHI)	M
-		*	B64-2245-00	INST. MANUAL (ARABIC)	M
-		*	B64-2246-00	INST. MANUAL (ENGLISH)	E
-		*	B64-2247-00	INST. MANUAL (FRE,GER,DUT)	E
-		*	B64-2248-00	INST. MANUAL (ITA,SPA,POR)	E
222	1A		D10-4589-04	LEVER	
223	3B	*	D10-4666-04	LEVER (LOCK)	
224	3B	*	D10-4667-04	LEVER (PUSH)	
225	3B	*	D10-4668-04	LEVER (REL R)	
226	3B	*	D10-4669-03	LEVER (REL L)	
227	3B	*	D10-4673-04	LEVER ASSY	
228	3B	*	D13-2232-04	GEAR	
229	3B	*	D21-2404-04	SHAFT	
230	3B	*	D21-2405-04	SHAFT	
231	3B	*	D39-0255-05	DAMPER	
235	3A	*	E29-1881-02	CONDUCTIVE RUBBER	
236	1B	*	E30-6050-05	CORD WITH PINPLUG	K1
236	1B	*	E30-6052-05	CORD WITH PINPLUG	K2
236	1B	*	E30-6053-05	CORD WITH PINPLUG	M
236	1B	*	E30-6103-05	CORD WITH PINPLUG	E
237	1B	*	E30-6081-05	CORD WITH DIN CONNECTOR	E
DC1	1A		E30-4940-05	DC CORD	
K1K2M					
DC2	1A		E30-4958-05	DC CORD	E
FC1	1A	*	E39-0438-05	FLAT CABLE	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
247	3B	*	G01-3128-04	EXTENSION SPRING	
248	3A	*	G01-3129-04	COMPRESSION SPRING (RELEASE)	
249	3B	*	G02-1425-04	FLAT SPRING	
250	3B	*	G02-1426-04	FLAT SPRING	
-		*	H10-4806-12	POLYSTYRENE FOAMED FIXTURE	
K1K2M					
-		*	H10-4807-12	POLYSTYRENE FOAMED FIXTURE	E
-		*	H11-1532-14	POLYSTYRENE FOAMED BOARD	
K1K2M					
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
K1K2M					
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E
-		*	H54-2353-03	ITEM CARTON CASE	K1
-		*	H54-2354-03	ITEM CARTON CASE	K2
-		*	H54-2359-03	ITEM CARTON CASE	M
-		*	H54-2363-03	ITEM CARTON CASE	E
255	3A	*	J19-5138-02	HOLDER	
256	1A		J21-9716-03	MOUNTING HARDWARE ASSY	
257	3B	*	J21-9809-04	MOUNTING HARDWARE ASSY	
264	3A	*	K24-3831-04	KNOB (RELEASE)	
265	3B	*	K24-3832-04	KNOB (EJECT)	
266	3A	*	K25-1409-03	KNOB (PRESET)	
267	3A	*	K25-1410-03	KNOB (SRC)	
268	3A	*	K25-1411-03	KNOB (ATT)	
269	3A	*	K25-1412-03	KNOB (FM/AM)	
270	3A	*	K25-1413-03	KNOB (DISP)	
271	3A	*	K25-1414-03	KNOB (VOL)	
276	1A		N99-1656-05	SCREW SET	
277	1A		N99-1719-05	SCREW SET	
K1K2M					
A	3B		N19-2106-04	FLAT WASHER (1.4X3X0.25)	
B	3B		N24-3020-46	E TYPE RETAINING RING (2X5X0.4)	
C	3A		N80-2005-46	PAN HEAD TAPTITE SCREW	
D	2A		N80-2008-45	PAN HEAD TAPTITE SCREW	
E	1B		N83-3005-46	PAN HEAD TAPTITE SCREW	
F	3B		N84-2005-46	PAN HEAD TAPTITE SCREW	
G	3B		N84-2606-45	PAN HEAD TAPTITE SCREW	
H	3B		N84-2606-46	PAN HEAD TAPTITE SCREW	
SWITCH UNIT (X16-16XX-X0)					
DME1	1B	*	X92-4460-00	MECHANISM ASSY (DXM-6400W)	
285	2A	*	B11-1368-04	OPTICAL DIFFUSER	
286	2A	*	B11-1370-04	REFLECTION SHEET	
287	2A	*	B19-2136-03	LIGHTING BOARD	
D5-17			B30-1605-05	LED (2COLOR PG/RED)	
D50-53			B30-1599-05	LED (NICHIA FULL)	
D80,81			B30-1564-05	LED (1608,BLUE)	
ED1	2A	*	B38-1090-05	LIQUID CRYSTAL	
C1			CC73GCH1H681J	CHIP C 680PF J	
C2-5			CK73GB1C104K	CHIP C 0.10UF K	
C6			CK73GB1H103K	CHIP C 0.010UF K	

△

△

KDC-MPV619/MPV7019/MPV7020/MV6521

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

SWITCH UNIT (X16-16XX-X0)

Ref. No.	Added	New	Parts No.	Description	Destination
C68 C80,81			CK73GB0J105K CK73GB1H103K	CHIP C 1.0UF K CHIP C 0.010UF K	
288 J1	2A	*	E29-1882-04 E59-0829-05	CONDUCTIVE RUBBER RECTANGULAR PLUG (16P)	
CP1 CP50-53 CP54,55 CP56 R1			R90-1016-05 R90-1022-05 R90-0720-05 R90-1022-05 RK73GB2A433J	MULTI-COMP 470 X4 MULTI-COMP 470 X2 MULTI-COMP 100K X4 MULTI-COMP 470 X2 CHIP R 43K J 1/10W	
R2-5 R6 R7,8 R9 R10			RK73GB2A222J RK73GB2A392J RK73GB2A223J RK73GB2A101J RK73GB2A102J	CHIP R 2.2K J 1/10W CHIP R 3.9K J 1/10W CHIP R 22K J 1/10W CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W	
R11 R12 R15,16 R17-19 R20			RK73GB2A4R7J RK73GB2A751J RK73GB2A103J RK73FB2B331J RK73FB2B511J	CHIP R 4.7 J 1/10W CHIP R 750 J 1/10W CHIP R 10K J 1/10W CHIP R 330 J 1/8W CHIP R 510 J 1/8W	
R21,22 R23 R24 R27,28 R50,51			RK73FB2B361J RK73GB2A102J RK73GB2A473J RK73GB2A103J RK73GB2A151J	CHIP R 360 J 1/8W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 150 J 1/10W	
R52 R53,54 R55 R56,57 R58			RK73GB2A221J RK73GB2A151J RK73GB2A221J RK73GB2A151J RK73GB2A221J	CHIP R 220 J 1/10W CHIP R 150 J 1/10W CHIP R 220 J 1/10W CHIP R 150 J 1/10W CHIP R 220 J 1/10W	
R59,60 R61 R62-65 R66 R67,68			RK73GB2A151J RK73GB2A221J RK73GB2A271J RK73GB2A4R7J RK73GB2A103J	CHIP R 150 J 1/10W CHIP R 220 J 1/10W CHIP R 270 J 1/10W CHIP R 4.7 J 1/10W CHIP R 10K J 1/10W	
D26 IC1 IC2 IC3 Q1			MA3082-L LC75808W RS-171 M62333FP DTA114EUA	ZENER DIODE MOS-IC ANALOGUE IC MOS-IC DIGITAL TRANSISTOR	
Q1 Q3,4 Q5 Q6 Q6			KRA302 2SD2114K 2SC4081 DTA114EUA KRA302	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	K1K2M K1K2M
Q50-64			2SC4081	TRANSISTOR	
ELECTRIC UNIT (X25-9XXX-XX)					
D114			B30-1567-05	LED (1608,RED)	
C1,2 C13-16 C17,18 C19,20 C19,20			CE04NW1HR47M C90-5296-05 CE04NW1C100M CE04NW1C100M CE04NW1HR47M	ELECTRO 0.47UF 50WV NP-ELECT 0.22UF 50WV ELECTRO 10UF 16WV ELECTRO 10UF 16WV ELECTRO 0.47UF 50WV	 K1K2 M

Ref. No.	Added	New	Parts No.	Description	Destination
C21,22 C23,24 C25 C27-30 C33			CE04NW1C100M CE04NW1HR47M CE04NW1A470M CE04NW1C100M CK73FB1H104K	ELECTRO 10UF 16WV ELECTRO 0.47UF 50WV ELECTRO 47UF 10WV ELECTRO 10UF 16WV CHIP C 0.10UF K	K2ME K2ME
C34 C35 C36 C41 C42			CK73FB1H104K CK73FB1H104K CE04NW1A470M CK73GB1A474K CC73GCH1H151J	CHIP C 0.10UF K CHIP C 0.10UF K ELECTRO 47UF 10WV CHIP C 0.47UF K CHIP C 150PF J	K1K2M K2ME M
C43 C44 C51 C52 C53			CK73GB1H333K CK73GB1H103K CK73GB1H103K C90-5235-05 CK73GB1H103K	CHIP C 0.033UF K CHIP C 0.010UF K CHIP C 0.010UF K ELECTRO 2200UF 16WV CHIP C 0.010UF K	
C54 C55 C56 C57 C58			CE04NW1C100M C90-2866-05 CE04NW0J101M CE04CW1C101M CE04CW1A221M	ELECTRO 10UF 16WV ELECTRO 220UF 16WV ELECTRO 100UF 6.3WV ELECTRO 100UF 16WV ELECTRO 220UF 10WV	
C59 C61,62 C63,64 C65 C71		*	CE04NW1A101M C90-2963-05 C90-5418-05 CK73GB1A224K CK73GB1H103K	ELECTRO 100UF 10WV ELECTRO 100UF 25WV ELECTRO 220UF 16WV CHIP C 0.22UF K CHIP C 0.010UF K	 E
C72 C73 C74 C75 C75 C76 C77 C78-80 C81,82 C91			CK73GB1E223K CE04NW1H010M CE04NW1H0R1M CK73GB1C683K CK73GB1H683K CE04NW1V3R3M CK73GB1H102K CK73GB1H103K CK73GB1H103K CE04NW1HR47M	CHIP C 0.022UF K ELECTRO 1.0UF 50WV ELECTRO 0.1UF 50WV CHIP C 0.068UF K CHIP C 0.068UF K ELECTRO 3.3UF 35WV CHIP C 1000PF K CHIP C 0.010UF K CHIP C 0.010UF K ELECTRO 0.47UF 50WV	 M
C92 C93 C94 C101 C102			CE04NW1C220M CK73GB1C104K CE04NW1H010M CE04NW1H2R2M CE04NW1C100M	ELECTRO 22UF 16WV CHIP C 0.10UF K ELECTRO 1.0UF 50WV ELECTRO 2.2UF 50WV ELECTRO 10UF 16WV	 K2ME
C103 C104 C105,106 C107 C117			CE04NW1A470M CK73GB1H103K CK73GB1C104K CK73GB1H103K CK73GB1H103K	ELECTRO 47UF 10WV CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 0.010UF K	 K2ME
C120 C122 C134 C135 C136			CK73GB1H103K CK73GB1H103K CC73GCH1H681J CK73GB1H103K CE04NW1H2R2M	CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 680PF J CHIP C 0.010UF K ELECTRO 2.2UF 50WV	 E E E
C137 C138 C139,140 C156,157 C201			CC73GCH1H331J CE04NW1C100M CC73GCH1H270J CK73GB1H103K CK73GB1H103K	CHIP C 330PF J ELECTRO 10UF 16WV CHIP C 27PF J CHIP C 0.010UF K CHIP C 0.010UF K	 E E E

K1: KDC-MPV619 K2: KDC-MPV7019
M : KDC-MPV7020 E : KDC-MV6521

△ indicates safety critical components.

KDC-MPV619/MPV7019/MPV7020/MV6521

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-9XXX-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
C202			CE04NW0J470M	ELECTRO 47UF 6.3WV	
C203			CK73GB0J105K	CHIP C 1.0UF K	
C204,205			CC73GCH1H220J	CHIP C 22PF J	
C206			CK73GB0J105K	CHIP C 1.0UF K	
C207			CK73GB1A224K	CHIP C 0.22UF K	
C208			CK73GB1H102K	CHIP C 1000PF K	
C209			CK73GB1H103K	CHIP C 0.010UF K	E
C405			CK73GB1H103K	CHIP C 0.010UF K	
C406			CK73GB0J105K	CHIP C 1.0UF K	
C411			CK73GB1H103K	CHIP C 0.010UF K	
C501			CK73GB1H103K	CHIP C 0.010UF K	M
C502			CK73GB1H103K	CHIP C 0.010UF K	M
CN1			E40-3241-05	PIN ASSY (6P)	K1
CN1			E40-5066-05	PIN ASSY (9P)	K2ME
CN2		*	E41-0168-05	FLAT CABLE CONNECTOR (24P)	
CN3		*	E41-0167-05	PIN ASSY (18P)	
CN4			E40-3248-05	PIN ASSY (4P)	E
J1	2B		E58-0863-15	RECTANGULAR RECEPTACLE (16P)	
J2	2B		E56-0834-05	CYLINDRICAL RECEPTACLE (13P)	
WH1	1B		E30-4804-05	CORD WITH PLUG (ANTENNA)	
WH1	1B		E30-4932-05	CORD WITH PLUG (ANTENNA)	K1K2M
L1			L33-1170-05	CHOKO COIL ASSY (140UH)	
L2			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
L6,7			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
L8			L33-1123-05	LINE FILTER COIL (52mH)	
L9		*	L33-1820-05	CHOKO COIL (220UH)	
L10			L92-0075-05	CHIP FERRITE	
L11			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
X1			L78-0821-05	RESONATOR (20MHZ)	
X2			L77-2738-05	CRYSTAL RESONATOR (32.768kHz)	
X3			L77-2002-05	CRYSTAL RESONATOR (4.332MHZ)	E
E	2B		N83-3005-46	PAN HEAD TAPTITE SCREW	
J	2B		N80-3008-46	PAN HEAD TAPTITE SCREW	
K	2B		N83-3012-46	PAN HEAD TAPTITE SCREW	
L	2B		N86-2606-46	BINDING HEAD TAPTITE SCREW	
R1,2			RK73FB2B361J	CHIP R 360 J 1/8W	
R3,4			RK73GB2A223J	CHIP R 22K J 1/10W	
R5,6			RK73EB2E181J	CHIP R 180 J 1/4W	
R7,8			RK73FB2B361J	CHIP R 360 J 1/8W	K1K2
R9,10			RK73GB2A223J	CHIP R 22K J 1/10W	K1K2
R9,10			RK73GB2A912J	CHIP R 9.1K J 1/10W	M
R11,12			RK73EB2E102J	CHIP R 1.0K J 1/4W	M
R11,12			RK73EB2E181J	CHIP R 180 J 1/4W	K1K2
R13,14			RK73FB2B361J	CHIP R 360 J 1/8W	K2ME
R15,16			RK73GB2A223J	CHIP R 22K J 1/10W	K2ME
R17,18			RK73EB2E181J	CHIP R 180 J 1/4W	K2ME
R19-22			RK73GB2A223J	CHIP R 22K J 1/10W	
R23,24			RK73EB2E100J	CHIP R 10 J 1/4W	
R25			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R26			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	M
R27-30			RK73GB2A103J	CHIP R 10K J 1/10W	K2ME
R31,32			RK73GB2A473J	CHIP R 47K J 1/10W	M
R41			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R42			RK73GB2A103J	CHIP R 10K J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R45,46			RK73GB2A472J	CHIP R 4.7K J 1/10W	K2ME
R51			RK73GB2A101J	CHIP R 100 J 1/10W	
R52			RK73FB2B223J	CHIP R 22K J 1/8W	
R53			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R54			RK73GB2A223J	CHIP R 22K J 1/10W	
R55			RK73FB2B103J	CHIP R 10K J 1/8W	
R56,57			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R58,59			RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W	
R60			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R61			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R62-65			RK73GB2A473J	CHIP R 47K J 1/10W	
R73			RK73GB2A104J	CHIP R 100K J 1/10W	K1K2M
R73			RK73GB2A223J	CHIP R 22K J 1/10W	E
R74			RK73EB2E103J	CHIP R 10K J 1/4W	E
R76			RK73GB2A473J	CHIP R 47K J 1/10W	E
R77			RK73GB2A104J	CHIP R 100K J 1/10W	
R78			RK73EB2E103J	CHIP R 10K J 1/4W	
R79,80			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R81			RK73FB2B223J	CHIP R 22K J 1/8W	
R82,83			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R84,85			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	K1K2M
R86			RK73GB2A223J	CHIP R 22K J 1/10W	K1K2M
R87			RK73FB2B243J	CHIP R 24K J 1/8W	
R88,89			RK73GB2A103J	CHIP R 10K J 1/10W	
R90,91			RK73GB2A223J	CHIP R 22K J 1/10W	
R92			RD14BB2C333J	RD 33K J 1/6W	
R93			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
R94			RK73GB2A104J	CHIP R 100K J 1/10W	
R100			RK73GB2A222J	CHIP R 2.2K J 1/10W	E
R101			RK73GB2A103J	CHIP R 10K J 1/10W	
R102			RK73GB2A101J	CHIP R 100 J 1/10W	
R103			RK73GB2A103J	CHIP R 10K J 1/10W	
R104			RK73FB2B221J	CHIP R 220 J 1/8W	K2ME
R105			RK73GB2A473J	CHIP R 47K J 1/10W	
R106			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R108			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R113			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R115			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R121			RK73EB2E101J	CHIP R 100 J 1/4W	
R122-126			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R127,128			RK73EB2E101J	CHIP R 100 J 1/4W	
R129,130			RK73GB2A104J	CHIP R 100K J 1/10W	
R141,142			RD14BB2C102J	RD 1.0K J 1/6W	
R143,144			RK73GB2A223J	CHIP R 22K J 1/10W	
R162			RK73GB2A472J	CHIP R 4.7K J 1/10W	E
R163			RK73EB2E471J	CHIP R 470 J 1/4W	
R164,165			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R166			RK73EB2E471J	CHIP R 470 J 1/4W	
R167			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R168,169			RK73EB2E471J	CHIP R 470 J 1/4W	
R170-173			RK73GB2A104J	CHIP R 100K J 1/10W	
R174			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R178			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R180			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R181			RK73EB2E102J	CHIP R 1.0K J 1/4W	

KDC-MPV619/MPV7019/MPV7020/MV6521

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-9XXX-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R182			RK73GB2A473J	CHIP R 47K J 1/10W	
R183			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R185			RK73EB2E471J	CHIP R 470 J 1/4W	
R186			RK73EB2E241J	CHIP R 240 J 1/4W	
R193,194			RK73GB2A471J	CHIP R 470 J 1/10W	
R196-199			RK73EB2E471J	CHIP R 470 J 1/4W	E
R202			RK73GB2A474J	CHIP R 470K J 1/10W	
R203			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R204		*	RK73FB2B241J	CHIP R 240 J 1/8W	
R205			RK73GB2A104J	CHIP R 100K J 1/10W	
R206-209			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R210			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R211			RK73GB2A101J	CHIP R 100 J 1/10W	
R212			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R213,214			RK73GB2A471J	CHIP R 470 J 1/10W	
R216-219			RK73GB2A104J	CHIP R 100K J 1/10W	
R220			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R221			RK73GB2A104J	CHIP R 100K J 1/10W	
R222,223			RK73GB2A104J	CHIP R 100K J 1/10W	K1K2M
R224,225			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R226,227			RK73GB2A222J	CHIP R 2.2K J 1/10W	E
R228			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R229			RK73GB2A222J	CHIP R 2.2K J 1/10W	E
R230			RK73GB2A104J	CHIP R 100K J 1/10W	K1K2M
R231,232			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R233			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R235			RK73GB2A473J	CHIP R 47K J 1/10W	
R236			RK73GB2A104J	CHIP R 100K J 1/10W	
R237			RK73GB2A471J	CHIP R 470 J 1/10W	
R238			RK73GB2A104J	CHIP R 100K J 1/10W	
R239,240			RK73GB2A471J	CHIP R 470 J 1/10W	
R241			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R242,243			RK73GB2A471J	CHIP R 470 J 1/10W	
R244			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R245			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R246			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R247			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R248			RK73GB2A471J	CHIP R 470 J 1/10W	K2ME
R249			RK73GB2A103J	CHIP R 10K J 1/10W	
R250,251			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R252			RK73GB2A103J	CHIP R 10K J 1/10W	
R254			RK73GB2A473J	CHIP R 47K J 1/10W	
R255			RK73GB2A104J	CHIP R 100K J 1/10W	
R256			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R257			RK73GB2A104J	CHIP R 100K J 1/10W	
R258			RK73GB2A153J	CHIP R 15K J 1/10W	
R259			RK73GB2A104J	CHIP R 100K J 1/10W	K1M
R260			RK73GB2A104J	CHIP R 100K J 1/10W	K2E
R261			RK73GB2A104J	CHIP R 100K J 1/10W	K2M
R262			RK73GB2A104J	CHIP R 100K J 1/10W	K1E
R263			RK73GB2A104J	CHIP R 100K J 1/10W	E
R264			RK73GB2A104J	CHIP R 100K J 1/10W	K1K2M
R266			RK73GB2A104J	CHIP R 100K J 1/10W	
R268			RK73GB2A104J	CHIP R 100K J 1/10W	
R269-271			RK73GB2A101J	CHIP R 100 J 1/10W	E

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R301-312			RK73GB2A103J	CHIP R 10K J 1/10W	K2ME
R501			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R502			RK73GB2A102J	CHIP R 1.0K J 1/10W	M
W101-103			R92-1252-05	CHIP R 0 OHM J 1/16W	K1K2E
W104,105			R92-1252-05	CHIP R 0 OHM J 1/16W	K1K2
W106			R92-2052-05	CHIP R 0 OHM J 1/10W	K1K2
W107			R92-2053-05	CHIP R 0 J 1/8W	K1K2
W108			R92-1252-05	CHIP R 0 OHM J 1/16W	E
W109,110			R92-2052-05	CHIP R 0 OHM J 1/10W	M
W111			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1			S74-0811-05	MICRO SWITCH	
D1		*	1N5393G-M5	DIODE	
D2			MA4056(N)-M	ZENER DIODE	
D3			RB160L-40	DIODE	
D4			MA4091(N)-L	ZENER DIODE	
D5			MA4082(N)-L	ZENER DIODE	
D6			HZS11B2	ZENER DIODE	K1K2M
D6			MA4110-L	ZENER DIODE	
D12			MA4047-M	ZENER DIODE	E
D13			AM01Z	DIODE	
D13			DSM1SD2	DIODE	
D13			ERA15-02	DIODE	
D14			1SS133	DIODE	
D15,16			AM01Z	DIODE	
D15,16			DSM1SD2	DIODE	
D15,16			ERA15-02	DIODE	
D17,18			MA4068(N)-M	ZENER DIODE	
D19			AM01Z	DIODE	KK1M1
D19			DSM1SD2	DIODE	KK1M1
D19			ERA15-02	DIODE	KK1M1
D21-28			S1J	DIODE	
D30-34			1SS133	DIODE	
D35,36			MA4068(N)-M	ZENER DIODE	
D37			IMS-A-6801	SURGE ABSORBER	
D38,39			1SS133	DIODE	K2ME
D40			SFPB-54V	DIODE	
D41,42			HZS6C1	ZENER DIODE	K1K2M
D41,42			MA4062-L	ZENER DIODE	
D44			HZS6C1	ZENER DIODE	K1K2M
D44			MA4062-L	ZENER DIODE	
D45-47			MA4068(N)-M	ZENER DIODE	
D71			1SS133	DIODE	
D102-113			DA204K	DIODE	
D102-113			KDS226	DIODE	K1K2M
D115		*	MTZJ4.3(B)	ZENER DIODE	K2ME
D116			DA204K	DIODE	E
D117,118			1SS133	DIODE	E
D119,120			DA204K	DIODE	E
IC1		*	UPD703030GFA03	MI-COM IC	E
IC1		*	UPD703033GFA05	MI-COM IC	M
IC1		*	UPD703033GFA13	MI-COM IC	K1K2
IC2			TDA7407D	ANALOGUE IC	
IC3			HD74HC02FP	MOS-IC	K1K2M
IC3			TC74HC02AF	MOS-IC	

K1: KDC-MPV619 **K2**: KDC-MPV7019
M: KDC-MPV7020 **E**: KDC-MV6521

△ indicates safety critical components.

KDC-MPV619/MPV7019/MPV7020/MV6521

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-9XXX-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
IC4	2B		TA8273H	ANALOGUE IC	
IC6		*	NJM2123V-TE2	ANALOGUE IC	K2ME
IC7		*	SAA6581T	ANALOGUE IC	E
IC8			S-80837ANNP	MOS-IC	
IC9,10			TC4066BF(N)	MOS-IC	M
IC11			SI-8050JD	ANALOGUE IC	
Q1,2			DTC143TUA	DIGITAL TRANSISTOR	
Q3,4			DTC143TUA	DIGITAL TRANSISTOR	K1K2
Q5,6			2SD2114K	TRANSISTOR	K2ME
Q7			DTA124EUA	DIGITAL TRANSISTOR	K2ME
Q7			KRA303	DIGITAL TRANSISTOR	K2M
Q8			DTA124EUA	DIGITAL TRANSISTOR	
Q8			KRA303	DIGITAL TRANSISTOR	K1K2M
Q9			DTC144EUA	DIGITAL TRANSISTOR	M
Q9			UN5213	DIGITAL TRANSISTOR	M
Q10			DTA124EUA	DIGITAL TRANSISTOR	M
Q10			KRA303	DIGITAL TRANSISTOR	M
Q11			2SC4081	TRANSISTOR	
Q11			2SD1819A	TRANSISTOR	K1K2M
Q12			2SA2057	TRANSISTOR	
Q13			2SA1576A	TRANSISTOR	
Q13			2SB1218A	TRANSISTOR	K1K2M
Q14			2SC4081	TRANSISTOR	
Q14			2SD1819A	TRANSISTOR	K1K2M
Q15			2SA2057	TRANSISTOR	
Q16			DTC124EUA	DIGITAL TRANSISTOR	
Q16			UN5212	DIGITAL TRANSISTOR	K1K2M
Q17			DTA124EUA	DIGITAL TRANSISTOR	
Q17			KRA303	DIGITAL TRANSISTOR	K1K2M
Q18			2SD2375	TRANSISTOR	
Q19			DTC124EUA	DIGITAL TRANSISTOR	
Q19			UN5212	DIGITAL TRANSISTOR	K1K2M
Q20			DTA124EUA	DIGITAL TRANSISTOR	
Q20			KRA303	DIGITAL TRANSISTOR	K1K2M
Q21			2SB1184	TRANSISTOR	
Q22			2SC4081	TRANSISTOR	
Q22			2SD1819A	TRANSISTOR	K1K2M
Q26			DTC144EUA	DIGITAL TRANSISTOR	
Q26			UN5213	DIGITAL TRANSISTOR	K1K2M
Q27			DTC114YUA	DIGITAL TRANSISTOR	
Q27,28			UN5214	DIGITAL TRANSISTOR	K1K2M
Q28			DTC114YUA	DIGITAL TRANSISTOR	K1K2M
Q29			DTA124EUA	DIGITAL TRANSISTOR	
Q29			KRA303	DIGITAL TRANSISTOR	K1K2M
Q30			2SA1576A	TRANSISTOR	
Q30			2SB1218A	TRANSISTOR	K1K2M
Q31			2SB1277(Q,R)	TRANSISTOR	K1K2M
Q31			2SB1434	TRANSISTOR	K1K2M
Q32			2SB1277(Q,R)	TRANSISTOR	K1K2M
Q32			2SB1434	TRANSISTOR	
Q33,34			2SC4081	TRANSISTOR	
Q33,34			2SD1819A	TRANSISTOR	K1K2M
Q42			DTC124EUA	DIGITAL TRANSISTOR	
Q42			UN5212	DIGITAL TRANSISTOR	K1K2M
Q43			DTC143TUA	DIGITAL TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
Q45,46			DTC124EUA	DIGITAL TRANSISTOR	
Q45,46			UN5212	DIGITAL TRANSISTOR	K1K2M
Q47,48			2SB1277(Q,R)	TRANSISTOR	
Q47,48			2SB1434	TRANSISTOR	
Q51			2SC4081	TRANSISTOR	
Q51			2SD1819A	TRANSISTOR	K1K2M
Q52			DTC143TUA	DIGITAL TRANSISTOR	E
Q53,54			DTA114YUA	DIGITAL TRANSISTOR	
Q53,54			UN5114	DIGITAL TRANSISTOR	K1K2M
Q55			2SA1576A	TRANSISTOR	
Q55			2SB1218A	TRANSISTOR	K1K2M
TH1			PTH9C42BD471Q	POSITIVE RESISTOR	
A1	2B		X86-3240-11	TUNER UNIT	K1K2M
A1	2B		X86-3342-71	TUNER UNIT	E
DAUGHTER UNIT (X89-25XX-X0)					
CN1		*	E41-0169-05	SOCKET FOR PIN ASSY (18P)	
J1			E58-0865-05	RECTANGULAR RECEPTACLE (16P)	
S1			S70-0877-05	TACT SWITCH	

KDC-MPV619/MPV7019/MPV7020/MV6521
MEMO

KDC-MPV619/MPV7019/MPV7020/MV6521

SPECIFICATIONS

	Model	KDC-MPV619(K)	KDC-MPV7019(K)	KDC-MPV7020(M)	KDC-MV6521(E)
FM	Frequency Range (Frequency step)	87.9MHz~107.9MHz (200kHz)	87.9MHz~107.9MHz (200kHz)	87.5MHz~108.0MHz (50kHz) 87.9MHz~107.9MHz (200kHz)	87.5MHz~108.0MHz (50kHz)
	Channel Space Selection	50kHz/200kHz	50kHz/200kHz	50kHz/200kHz	-
	Usable Sensitivity (S/N 26dB)	-	-	-	0.7 μ V/75 Ω
	Usable Sensitivity (S/N 30dB)	9.3dBf (0.8 μ V/75 Ω)	9.3dBf (0.8 μ V/75 Ω)	9.3dBf (0.8 μ V/75 Ω)	-
	Quieting Sensitivity (S/N 46dB)	-	-	-	1.6 μ V/75 Ω
	Quieting Sensitivity (S/N 50dB)	15.2dBf (1.6 μ V/75 Ω)	15.2dBf (1.6 μ V/75 Ω)	15.2dBf (1.6 μ V/75 Ω)	-
	Frequency Response (\pm 3.0dB)	30Hz~15kHz	30Hz~15kHz	30Hz~15kHz	30Hz~15kHz
	S/N	70dB (MONO)	70dB (MONO)	70dB (MONO)	65dB (MONO)
	Selectivity (DIN)	-	-	-	\geq 80dB (\pm 400kHz)
	Selectivity	\geq 80dB (\pm 400kHz)	\geq 80dB (\pm 400kHz)	\geq 80dB (\pm 400kHz)	-
Stereo Separation	40dB (1kHz)	40dB (1kHz)	40dB (1kHz)	35dB (1kHz)	
AM (MW)	Frequency Range (Frequency step)	530kHz~1700kHz (10kHz)	530kHz~1700kHz (10kHz)	531kHz~1611kHz (9kHz) 530kHz~1700kHz (10kHz)	531kHz~1611kHz (9kHz)
	Channel Space Selection	9kHz/10kHz	9kHz/10kHz	9kHz/10kHz	-
	Usable Sensitivity (S/N 20dB)	28dB μ (25 μ V)	28dB μ (25 μ V)	28dB μ (25 μ V)	25 μ V
LW	Frequency Range	-	-	-	153kHz~281kHz
	Usable Sensitivity (S/N 20dB)	-	-	-	45 μ V
CD	Laser Diode	GaAlAs (λ =780nm)	GaAlAs (λ =780nm)	GaAlAs (λ =780nm)	GaAlAs (λ =780nm)
	Digital Filter (D/A)	8 Times Over Sampling	8 Times Over Sampling	8 Times Over Sampling	8 Times Over Sampling
	D/A Converter	1 Bit	1 Bit	1 Bit	1 Bit
	Spindle Speed	1000~400rpm (CLV · 2times)	1000~400rpm (CLV · 2times)	1000~400rpm (CLV · 2times)	1000~400rpm (CLV · 2times)
	Wow & Flutter	Below Measurable Limit	Below Measurable Limit	Below Measurable Limit	Below Measurable Limit
	Frequency Response	10Hz~20kHz (\pm 1dB)	10Hz~20kHz (\pm 1dB)	10Hz~20kHz (\pm 1dB)	10Hz~20kHz (\pm 1dB)
	Total Harmonic Distortion	0.01% (1kHz)	0.01% (1kHz)	0.01% (1kHz)	0.01% (1kHz)
	S/N Ratio	105dB (1kHz)	105dB (1kHz)	105dB (1kHz)	105dB (1kHz)
	Dynamic Range	93dB	93dB	93dB	93dB
	Channel Separation	85dB	85dB	85dB	85dB
	MP3 Decode	Compliant with MPEG-1.0/2.0/2.5 AudioLayer-3	Compliant with MPEG-1.0/2.0/2.5 AudioLayer-3	Compliant with MPEG-1.0/2.0/2.5 AudioLayer-3	Compliant with MPEG-1.0/2.0/2.5 AudioLayer-3
Pre-out Level/Load (Unbalanced)	1800mV/10k Ω (CD/CD-CH)	1800mV/10k Ω (CD/CD-CH)	1800mV/10k Ω (CD/CD-CH)	1800mV/10k Ω (CD/CD-CH)	
Pre-out Impedance	\leq 600 Ω	\leq 600 Ω	\leq 600 Ω	\leq 600 Ω	
AMPLIFIER	Maximum Power	50Wx4	50Wx4	50Wx4	50Wx4
	Power (DIN45324, +B=14.4V)	-	-	-	30Wx4
	Full Bandwidth Power (at less than 1% THD)	22Wx4	22Wx4	22Wx4	-
TONE	Bass	100Hz \pm 10dB	100Hz \pm 10dB	100Hz \pm 10dB	100Hz \pm 10dB
	Middle	1kHz \pm 10dB	1kHz \pm 10dB	1kHz \pm 10dB	1kHz \pm 10dB
	Treble	10kHz \pm 10dB	10kHz \pm 10dB	10kHz \pm 10dB	10kHz \pm 10dB
GENERAL	Operating Voltage (11V~16V allowable)	14.4V	14.4V	14.4V	14.4V
	Current Consumption	10A	10A	10A	10A
	Installation Size (W) (H) (D)	182mm 7-3/16in.	182mm 7-3/16in.	182mm 7-3/16in.	182mm 7-3/16in.
		53mm 2-1/16in.	53mm 2-1/16in.	53mm 2-1/16in.	53mm 2-1/16in.
		155mm 6-1/10in.	155mm 6-1/10in.	155mm 6-1/10in.	155mm 6-1/10in.
Weight	1.25kg (2.76lbs.)	1.25kg (2.76lbs.)	1.25kg (2.76lbs.)	1.25kg (2.76lbs.)	

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-8501 Japan

KENWOOD SERVICE CORPORATION
P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O. Box 55-2791 Paillilla, Plaza Credicorp Bank Panama,
Piso 9, Oficina 901, Calle 50, Panama, Rep. de Panama

KENWOOD ELECTRONICS BRASIL LTDA.
Alameda Ministro Rocha Azevedo No. 456,
Edifício Jauú, 100 Andar, Cerqueira César, Cep 0140-001,
São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED
Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.
13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.
Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.
Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.
Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)
16 Giffnock Avenue, Centrecourt Estate, North Ryde,
N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.,
Hong Kong

KENWOOD ELECTRONICS GULF FZE
P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.
2019 New Pechburi Road, Bangkok, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.
1 Genting Lane, #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD
#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan,
Malaysia