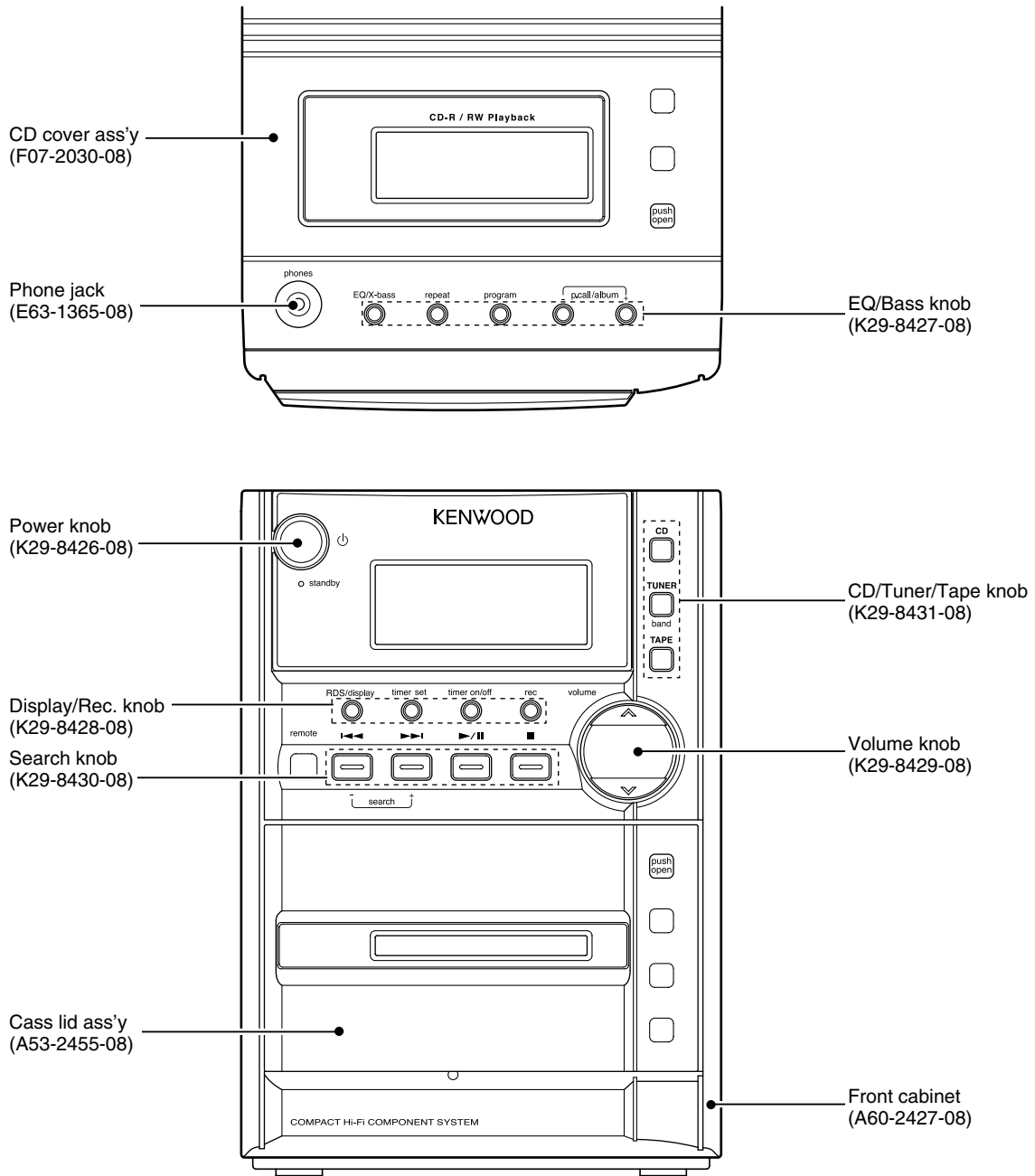


RXD-M47MP

SERVICE MANUAL

(HM-437MP)

KENWOOD

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B51-5934-00 (K/K) 715

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

Caution : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.



RXD-M47MP

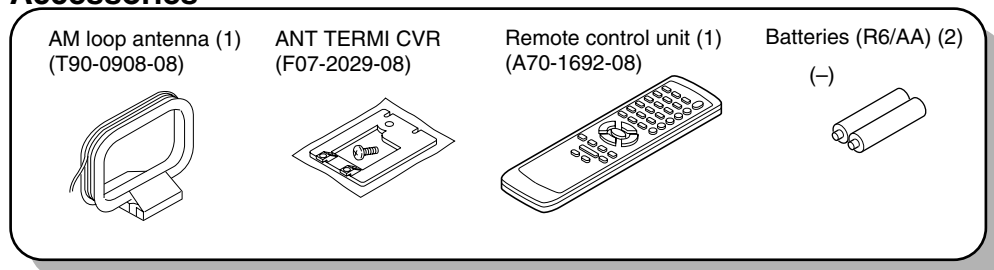
CONTENTS / ACCESSORIES / CAUTIONS

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Accessories



System configuration

SYSTEM	RECEIVER	SPEAKER
HM-437MP	RXD-M47MP	LS-M47

Cautions

The marking of products using lasers

CLASS 1 LASER PRODUCT
LASER KLASSE 1
APPAREIL A LASER DE CLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

The marking this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.

Location: Bottom

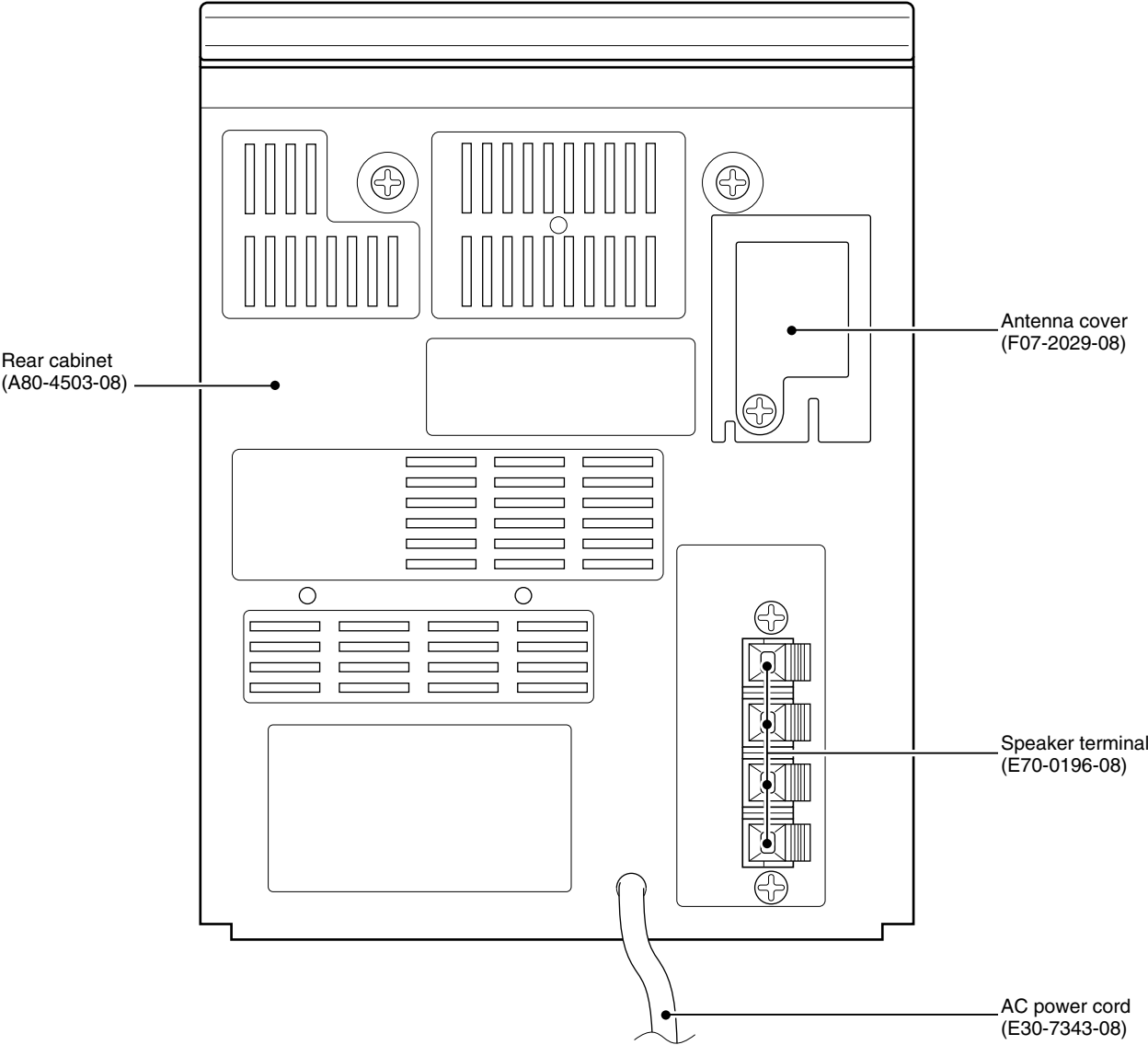
Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

Plug in the AC power cord to the wall outlet, and within 5 seconds, press and hold down the ■ button and press CD button.

- Please note that resetting the microcomputer will clear the contents of the memory and return the unit to the state it was in when it left the factory.

EXTERNAL VIEW



ADJUSTMENT

SERVICE ADJUSTMENT

Lubrication

The mechanical parts are factory coated with a thin coat of light grease and should not require further lubrication. If a light grease is applied, be careful not to get any grease on the play/record head or erase head, hubs, pulleys, tapes reels, drive belts, or switches. Use a good lubricant such as Silicon Lube G322L or Lubricate.

Service Check

Before aligning the mechanism, wipe off any accumulated dirt with denatured alcohol. Wipe around parts where the tape contacts and around all rotating parts. Drive belts are specially processed. Do not clean them with alcohol.

Mechanical Torque

Use a cassette type torque gauge and check the tape mechanism.

Take-up torque 35 to 70 g-cm

Rewind torque 50 g-cm min.

Fast forward torque 50 g-cm min.

Pinch Wheel Pressure

No adjustment to the pinch roller spring is necessary. It should be sufficient to give at least 40 g-cm pull force.

Tape Head Servicing

Each time the unit is serviced, the face of all heads should be thoroughly cleaned with denatured alcohol or commercial head cleaning solution. The playback head should be demagnetized with a commercial demagnetizer. Accumulation of tape oxide during normal operations can cause problems, including loss of high frequencies and wow and flutter.

Erase Head

The erase head is properly aligned when the tape rides directly between the tape guide on the head without crinkling the tape.

ADJUSTMENT

Play/Record and Playback Head Azimuth Adjustment

To adjust the play/record and playback head azimuth screw:

1. Connect two (2) VTVMs and a dual trace scope to the stereo headphone jack (as shown) with a 32 ohm dummy load. (See Figure 1.)

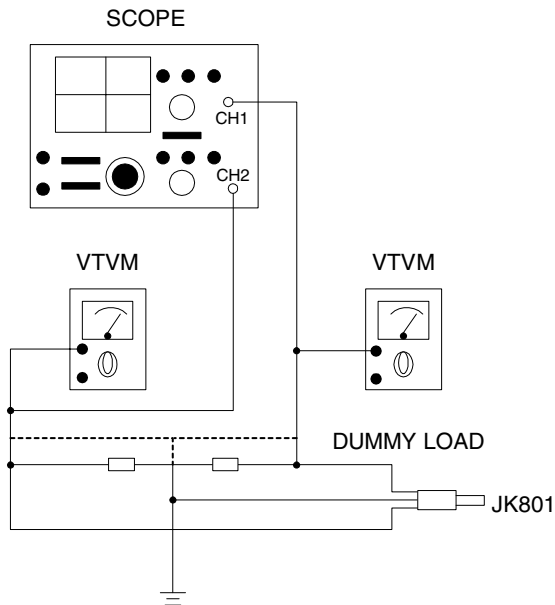


Figure 1. Azimuth Adjustment

2. Insert a 10 kHz test tape (Teac MTT-1141V or Equivalent) into the tape mechanism and play it back.
3. While playing back the test tape, slowly turn the azimuth adjusting screw until the amplitude of both channel output waveforms is maximum and in phase. (See Figure 2.)
4. Secure the azimuth screw in place with glue or paint after making the adjustment.

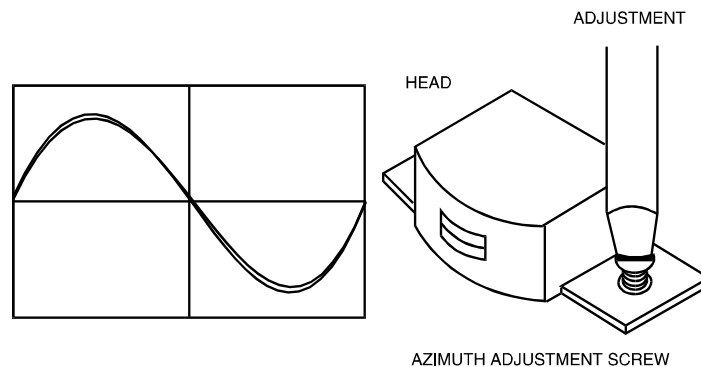


Figure 2. Head Output Signal

RXD-M47MP

ADJUSTMENT

Tape Speed Adjustment

1. Set the function switch to TAPE.
2. Connect a frequency counter with a 32 ohm dummy load to the stereo headphone jack. (See Figure 3.)

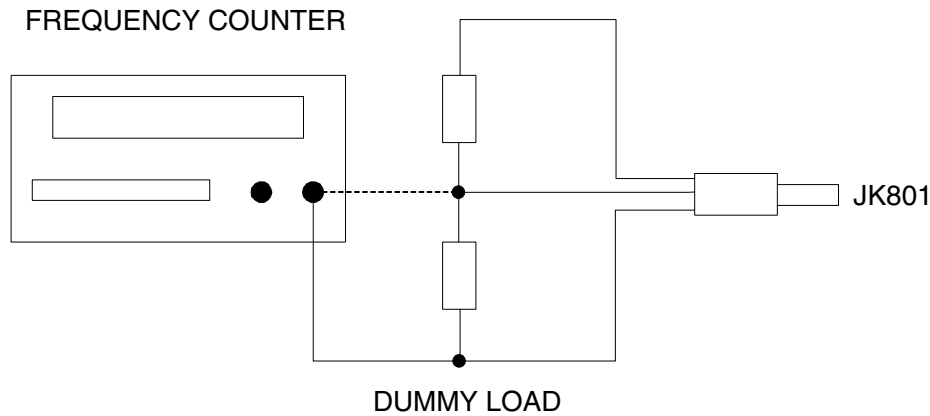


Figure 3. Tape Speed Adjustment

3. Insert and play back a 3 kHz test tape (Teac MTT-111 or Equivalent) into the tape mechanism.
4. Insert an insulated alignment tool and adjust the tape speed potentiometer (MOTOR) until the frequency counter indicates 2940 Hz to 3090 Hz.

Bias Oscillator Frequency and Level Adjustment

1. Set the function switch to TAPE and the record and play tape mechanism to RECORD.
2. Connect a VTVM and frequency counter to test point R/P HEAD.
3. Adjust bias oscillator coil T360 until the frequency counter indicates $81 \text{ kHz} \pm 0.5 \text{ kHz}$.
4. Confirm the record head voltage equal to: 6-12V.
5. Confirm the erase head voltage equal to: 15-24V.

ADJUSTMENT

TUNER ALIGNMENT PROCEDURE

Equipment needed:

1. AM Signal generator
2. FM Signal generator
3. DC Voltage meter
4. Oscilloscope
5. Output meter (VTVM)

AM Alignment

Step	S/G Frequency	Dial Setting	Indicator	Adjust	Remarks
1	450 kHz (1 kHz 30% mod.)	612 kHz	Connect oscilloscope or VTVM to speaker jack	T201	Adjust until maximum output
2	531 kHz (1 kHz 30% mod.)	Low end	Connect DC voltage meter to test point Vt and ground	T202	Adjust until Vt equal to $1.5 \pm 0.05V$
3	1602 kHz (1 kHz 30% mod.)	High end	Same as step 2		Confirm Vt: 6.5~8.5V
4	612 kHz (1 kHz 30% mod.)	612 kHz	Same as step 1	T203	Maximum output
5	1404 kHz (1 kHz 30% mod.)	1404 kHz	Same as step 1	VC201	Maximum output
6	Repeat steps 4 and 5 to minimize tracking error				
7	999 kHz (1 kHz 30%mod.)	999 kHz	Same as step 1		Offset is less than 6 dB.

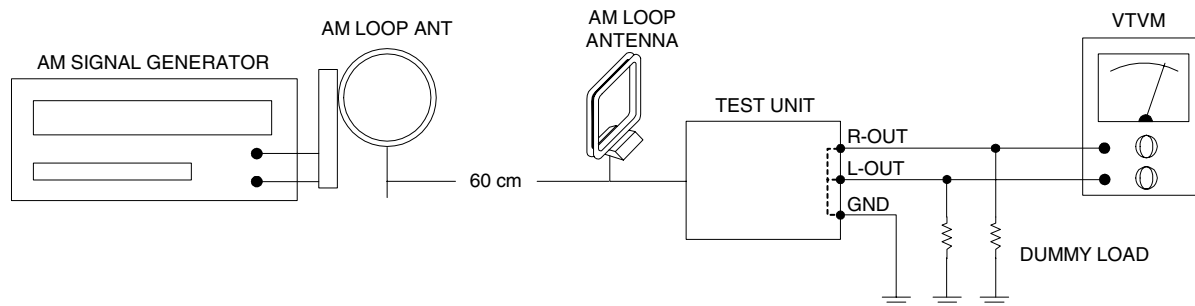


Figure 4. AM IF/RF Tracking

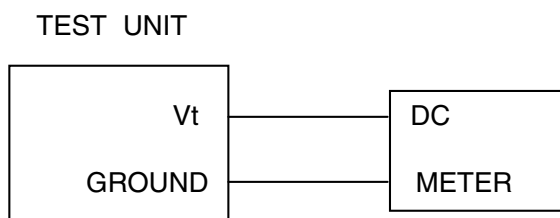


Figure 5. AM Band Frequency Coverage Alignment

RXD-M47MP

ADJUSTMENT

FM Alignment:

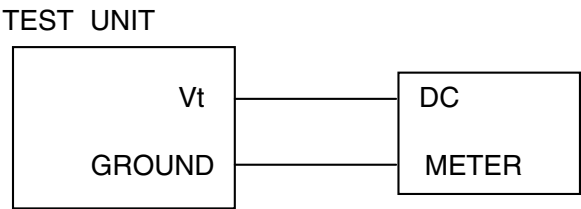


Figure 6. FM Band Frequency Coverage Alignment

Connect FM S/G to ANT inputs (mod 1 kHz 22.5kHz dev.)

Step	S/G Frequency	Dial Setting	Indicator	Adjust	Remarks
1	87.5 MHz	Low end	Connect DC voltage meter to test point Vt and ground	L203	Adjust until Vt equal to: $1.5 \pm 0.05V$
2	108 MHz	High end	Same as step 1		Confirm Vt: 7-9V
3	90.1 MHz	90.1 MHz	Connect oscilloscope or VT/VM to speaker jack	L204	Adjust until Maximum output
4	106.1 MHz	106.1 MHz	Same as step 3	VC202	Adjust until maximum output
5	Repeat steps 3 and 4 to minimize tracking error.				

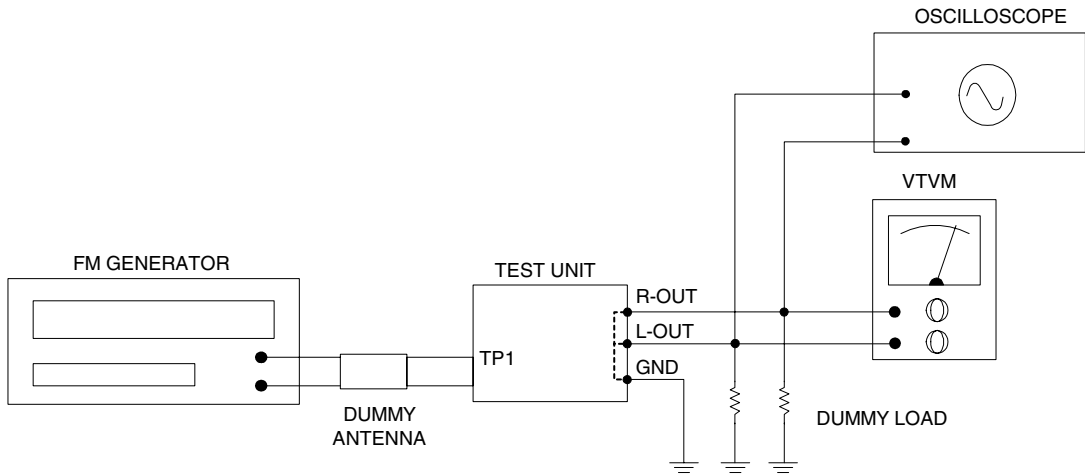
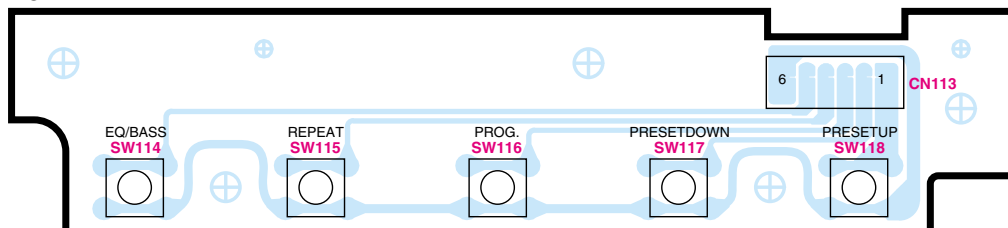


Figure 7. FM Band/Tracking

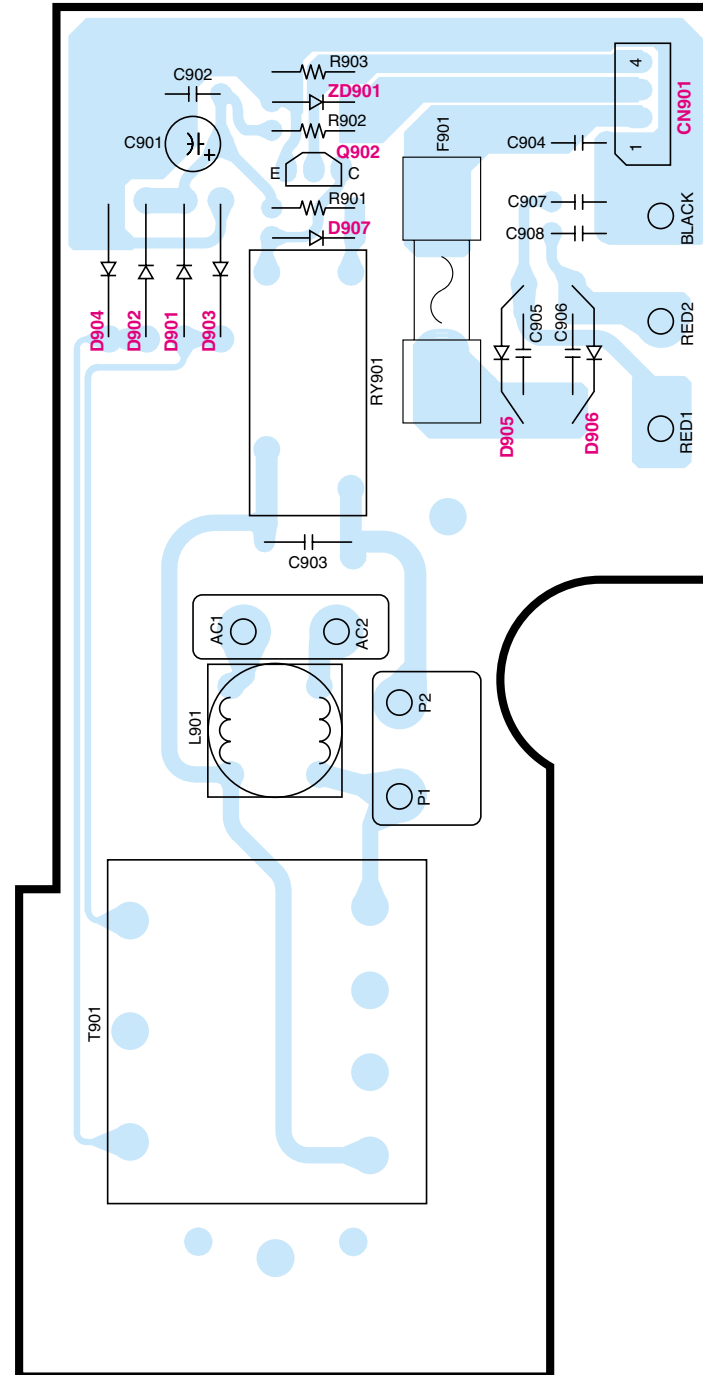
FRONT KEY



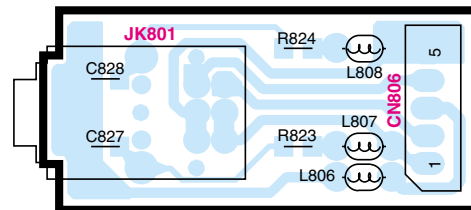
9

PC BOARD (Component side view)

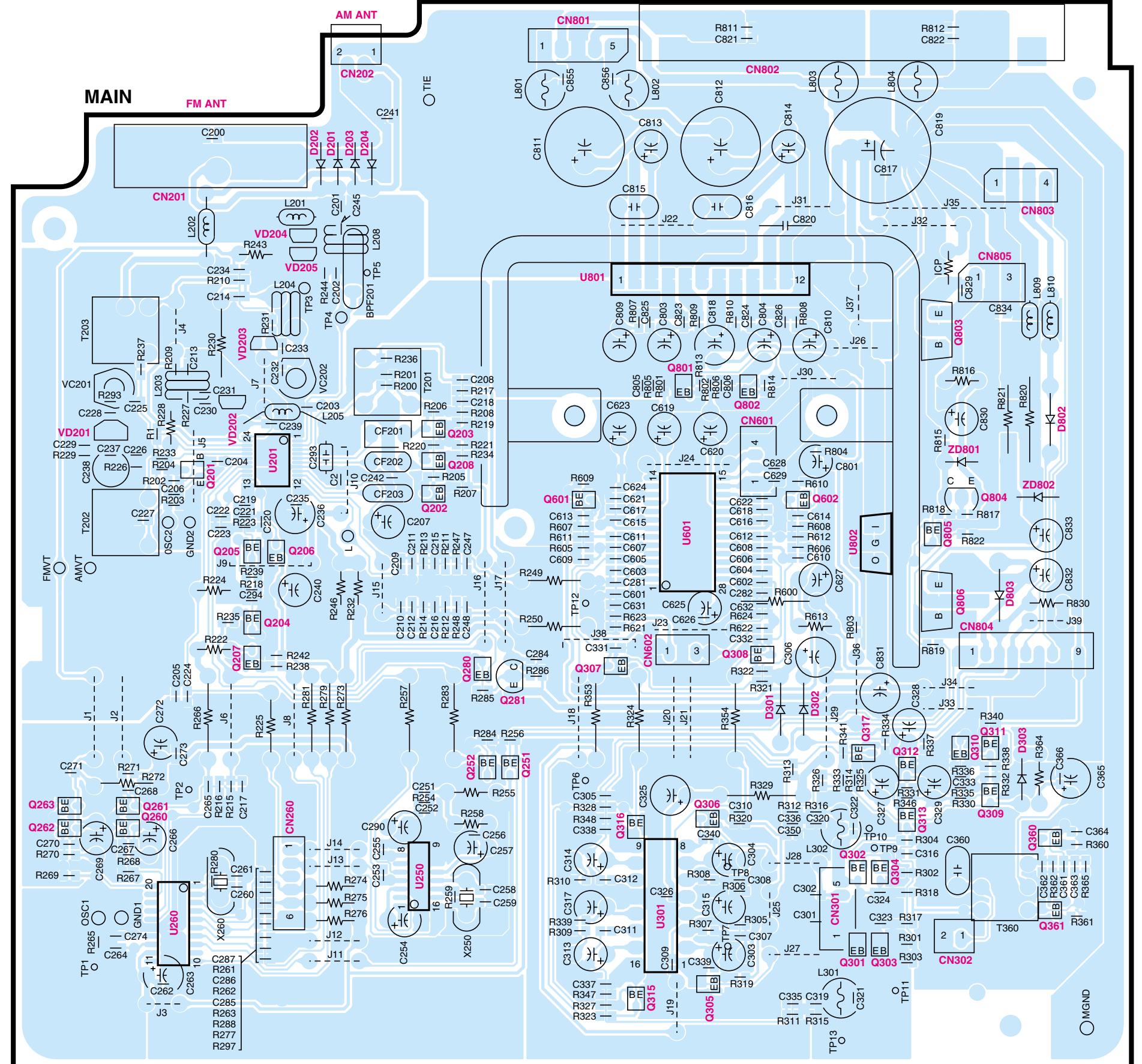
POWER



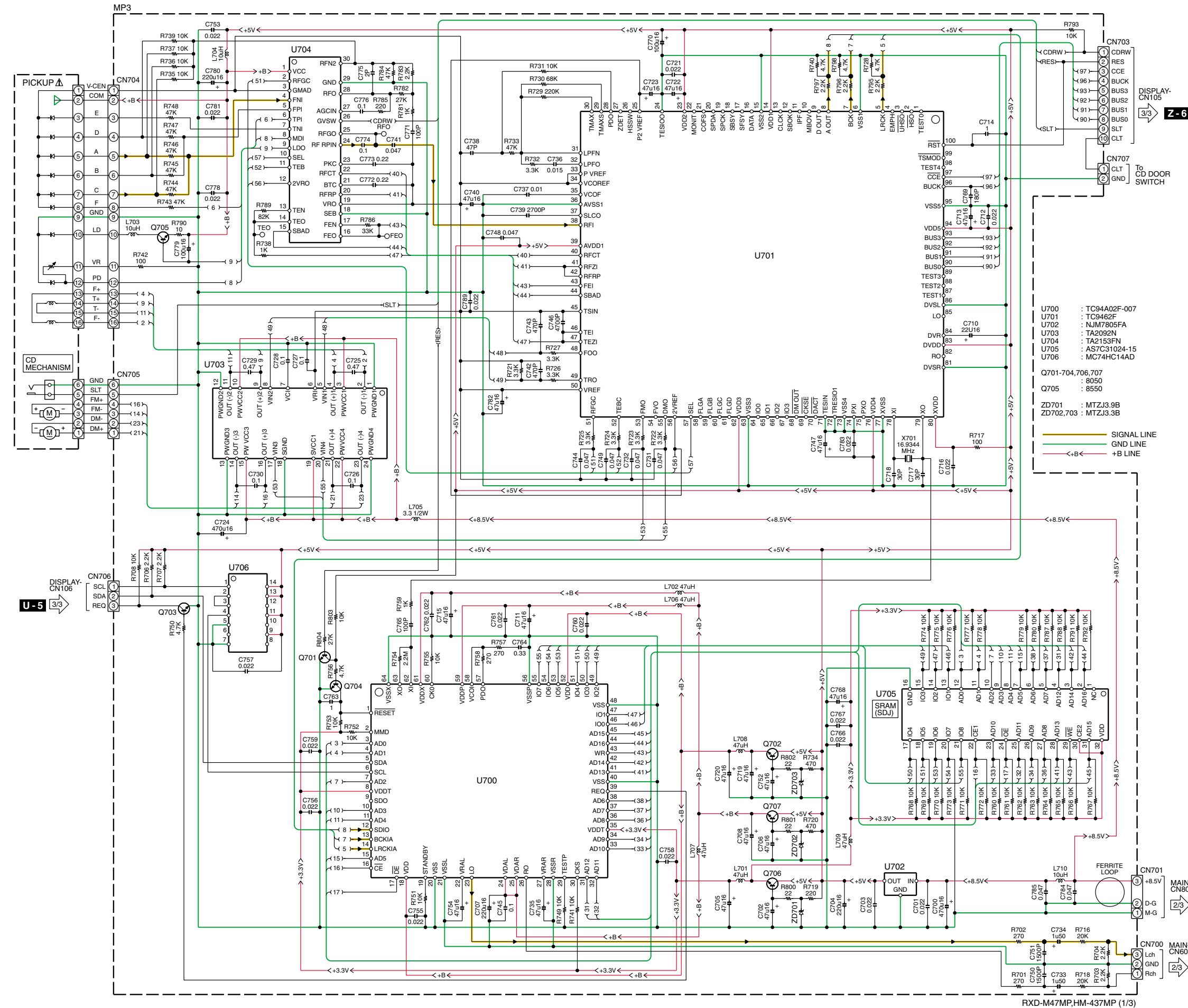
HEADPHONE

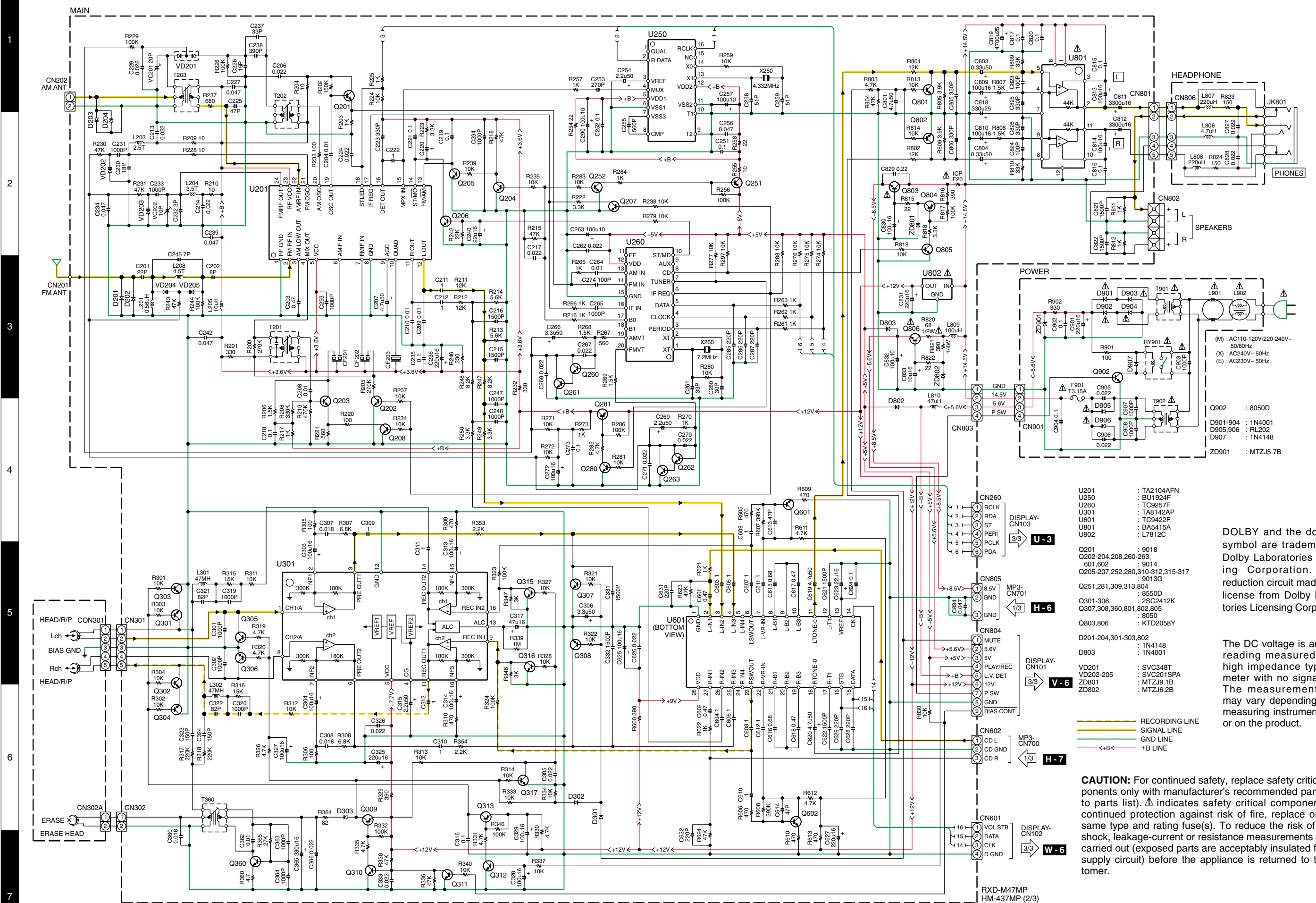


MAIN



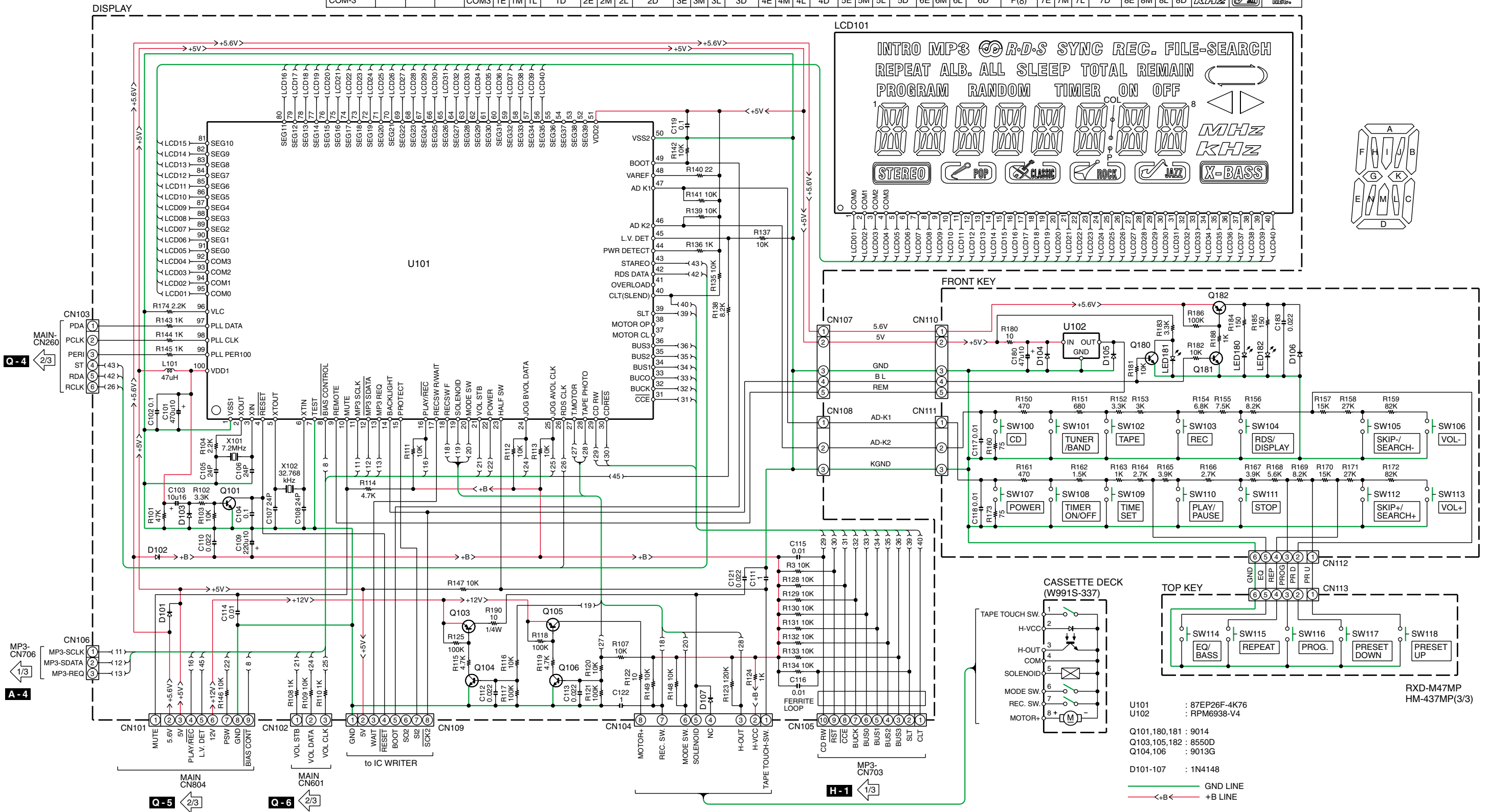
RXD-M47MP





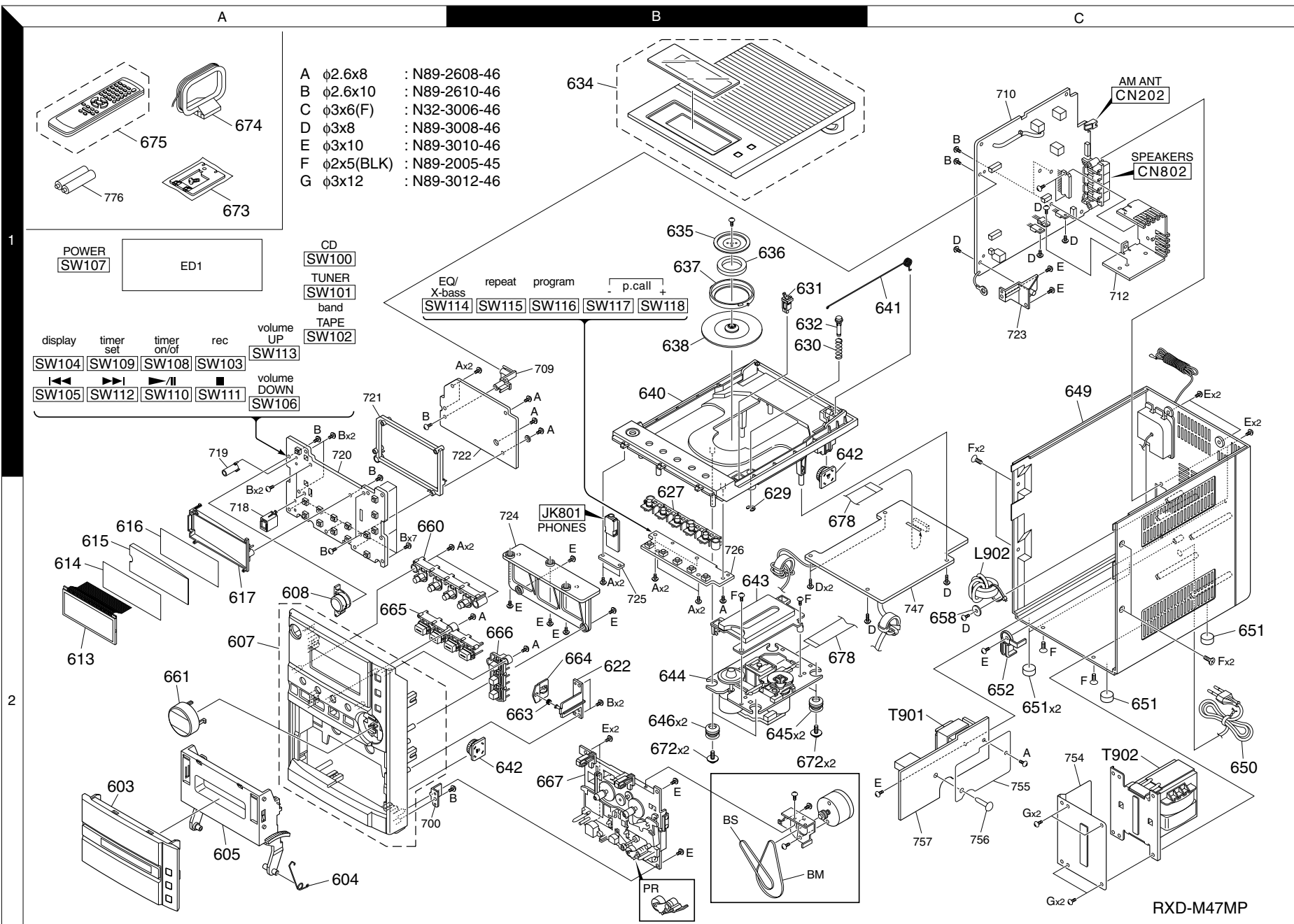
RXD-M47MP

COM/PIN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
COM-0	COM0				1F	1A	1B	TOTAL	2F	2A	2B	PROGRAM	3F	3A	3B	REMAN	4F	4A	4B	SLEEP	5F	5A	5B	INTRO	6F	6A	6B	FILE-SEARCH	RANDOM	7F	7A	7B	REPEAT	8F	8A	8B	ALL	SYNC				
COM-1		COM1			1H	1I	1J	CD-RMS	2H	2I	2J	TIMER	3H	3I	3J	ON	4H	4I	4J	OFF	5H	5I	5J	COL	6H	6I	6J	STEREO	MP3	7H	7I	7J	ALB.	8H	8I	8J						
COM-2			COM2		1G	1N	1K	1C	2G	2N	2K	2C	3G	3N	3K	3C	4G	4N	4K	4C	5G	5N	5K	5C	6G	6N	6K	6C		7G	7N	7K	7C	8G	8N	8K	8C	MP3-IZ				
COM-3				COM3	1E	1M	1L	1D	2E	2M	2L	2D	3E	3M	3L	3D	4E	4M	4L	4D	5E	5M	5L	5D	6E	6M	6L	6D	P(o)	7E	7M	7L	7D	8E	8M	8L	8D	MP3-IZ			REC.	



EXPLODED VIEW (UNIT)

RXD-M47MP



* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RXD-M47MP						
-		*	A05-0270-08	Speaker Box	00-00337-03	
-		*	B60-5521-08	I/B 'Kenwood'	88-00437-00	
-		*	H10-7943-08	Polyfoam (L)	86-00437-01	
-		*	H10-7944-08	Polyfoam (R)	86-00437-02	
-		*	H60-1311-08	Carton Box 'Ke	89-00337-06	
603	2A	*	A53-2455-08	Cass Lid Assy	00-00337-12	
604	2A		G01-4373-08	Cass Lid Sprin	36-00337-00	
605	2A		A53-2452-08	Cass Lid Brack	48-00337-00	
607	2A	*	A60-2427-08	Front Cabinet	00-00337-13	
608	2A		K29-8426-08	Power Knob	53-00337-01	
613	2A	*	B38-0275-08	LCD 80724TT-P	91-00437-01	
614	2A		B11-1611-08	LCD Filter	43-00337-05	
615	2A		B19-1670-08	Light Guide	43-00337-03	
616	2A		B11-1610-08	Light Guide Pa	68-00337-00	
617	2A		J19-6435-08	Light Guide Br	48-00337-01	
622	2B		J19-6433-08	Cass Lid Latch	55-00005-01	
627	2B		K29-8427-08	EQ/Bass Knob	53-00337-03	
629	2B		N29-0295-08	E Ring M3	35-00003-00	
630	1B		G01-4362-08	EM3 CD Eject S	36-00003-04S	
631	1B		J52-0047-08	CD Door Switch	16-00000-09	
632	1B		D10-5077-08	NSX1 Push Rod	55-00141-02	
634	1B	*	F07-2030-08	CD Cover Assy	00-00337-14	
635	1B		J19-6420-08	OP3223 Metal P	39-03223-00	
636	1B		T99-0692-08	OP192-Magnet 2	97-09019-00	
637	1B		J19-6419-08	UMS4200 Stabili	49-04200-00	
638	1B		J11-0904-08	OP3223 Stabili	55-07953-03	
640	1B	*	A02-3109-08	CD Tray Assy	00-00337-15	
641	1C		G01-4374-08	CD Cover Sprin	36-00337-01	
642	1B,2B		D39-0361-08	Damper Gear B4	63-00303-01	
643	2B		F07-2026-08	OP3223 94V5 PU	48-00088-07	
644	2B		D40-1845-08	Sanyo CD Mech.	98-00337-00	
645	2B		J02-1563-08	CD Damper (314	81-02750-00	
646	2B		J02-1564-08	CD Damper (314	81-02750-01	
649	1C		A80-4503-08	Rear Cabinet	61-04200-00G	
△ 650	2C		E30-7343-08	AC Power Cord	30-00020-06E	
△ 651	2C		G11-2957-08	Rubber Foot .1	81-04200-00	
△ 652	2C		J19-6436-08	AC Cord Holder	48-00337-10	
658	2C		N29-0297-08	Fibre Washer	35-10019-00	
660	2A		K29-8428-08	Display / Rec.	53-00337-02	
661	2A		K29-8429-08	Volume Knob	53-00337-00	
663	2B		G01-4371-08	Cass Latch Spr	36-00005-02	
664	2B		J22-1259-08	Cass Lid Latch	55-00005-00	
665	2A		K29-8430-08	Search Knob	53-00337-04	
666	2B		K29-8431-08	CD/Tuner/Tape	53-00337-05	
667	2B	*	D40-1847-08	W991S-237 Wall	94-30437-00	
672	2B		N09-5542-08	CD Damper Scre	40-52610-03	
673	1A		F07-2029-08	Antenna Cover	48-04200-50	
674	1A		T90-0908-08	AM ANT Loop '4	23-04910-02	
675	1A	*	A70-1692-08	Remote Control	V-RE-KEN437	
678	2B		E41-1350-08	FFC 16 Pin CAB	25-61070-00	
△ T901			L07-3304-08	X' Former EI-	15-00337-05	
△ T902		*	L07-3319-08	X' Former EI-	15-00337-02	

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components .

2

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
POWER SUPPLY						
△ C901			CE04KW1C221M	ELECTRO	220UF	16WV
C902		*	C91-1706-08	CERAMIC	0.1UF	Z
△ C903			C91-1686-08	CERAMIC	0.001UF	250VAC
C904		*	C91-1706-08	CERAMIC	0.1UF	Z
C905,906		*	C91-1707-08	CERAMIC	0.022UF	Z
C907,908			C91-0757-05	CERAMIC	1000PF	K
△ F901			F50-0262-08	Fuse T3.15L 25	33-57312-03W	
△ L901			L33-1703-08	Lead Free Comm	09-00400-00O	
△ L902			L92-0807-08	Ferrite Core T	08-04344-50	
△ RY901			S76-0144-08	Relay SW. SDT-	16-50101-01	
△ D901-904			1N4001	Diode W-1N4001	02-04001-00T	
△ D905,906			RL202	Diode Rectifie	02-00202-00	
D907			1N4148	Diode 1N4148 (	02-04148-00W	
Q902			8050D	Transistor 805	01-08050-05B	
ZD901			MTZJ5.6B	Zener Diode 5.	02-50056-00	
MAIN						
C201			CC73GCH1H220J	CHIP C	22PF	J
C202		*	CC73GCH1H080D	CHIP C	8.0PF	D
C203			C91-1708-08	CHIP C	0.47UF	K
C204			CK73GB1H103K	CHIP C	0.010UF	K
C206			CK73GB1H223K	CHIP C	0.022UF	K
C207			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C208-210			CK73GB1H103K	CHIP C	0.010UF	K
C211,212			CK73GB1H105Z	CHIP C	1.0UF	Z
C213,214			CK73GB1H223K	CHIP C	0.022UF	K
C215,216			CK73GB1H152K	CHIP C	1500PF	K
C217			CK73GB1H223K	CHIP C	0.022UF	K
C218,219			CK73GB1H104Z	CHIP C	0.10UF	Z
C220			CK73GB1H105Z	CHIP C	1.0UF	Z
C221			CK73GB1H104Z	CHIP C	0.10UF	Z
C222			CK73GB1H105Z	CHIP C	1.0UF	Z
C223			CK73GB1H331J	CHIP C	330PF	J
C224			CK73GB1H223K	CHIP C	0.022UF	K
C225			CC73GCH1H470J	CHIP C	47PF	J
C226			CC73GCH1H150J	CHIP C	15PF	J
C227			CK73GB1H473K	CHIP C	0.047UF	K
C229			CK73GB1H223K	CHIP C	0.022UF	K
C230			CC73GCH1H180J	CHIP C	18PF	J
C231			CK73GB1H102K	CHIP C	1000PF	K
C232			CC73GCH1H030C	CHIP C	3.0PF	C
C233			CK73GB1H102K	CHIP C	1000PF	K
C234			CK73GB1H473K	CHIP C	0.047UF	K
C235			CK73GB1H104Z	CHIP C	0.10UF	Z
C236			CE04KW1C221M	ELECTRO	220UF	16WV
C237			CC73GCH1H330J	CHIP C	33PF	J
C238			C91-1685-08	FILM C	390PF	J
C239			CK73GB1H473K	CHIP C	0.047UF	K
C240			CE04KW1C220M	ELECTRO	22UF	16WV
C242			CK73GB1H473K	CHIP C	0.047UF	K
C245			CC73GCH1H070C	CHIP C	7.0PF	C
C247,248			CK73GB1H102K	CHIP C	1000PF	K

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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C251,252			CK73GB1H104Z	CHIP C 0.10UF Z		
C253			CC73GCH1H271J	CHIP C 270PF J		
C254			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C255			CK73GB1H561K	CHIP C 560PF K		
C256			CK73GB1H473K	CHIP C 0.047UF K		
C257			CE04KW1A101M	ELECTRO 100UF 10WV		
C258,259			CC73GCH1H510J	CHIP C 51PF J		
C260			CC73GCH1H300J	CHIP C 30PF J		
C261			CC73GCH1H330J	CHIP C 33PF J		
C262			CK73GB1H223K	CHIP C 0.022UF K		
C263			CE04KW1A101M	ELECTRO 100UF 10WV		
C264			CK73GB1H103K	CHIP C 0.010UF K		
C265			CK73GB1H102K	CHIP C 1000PF K		
C266			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C267,268			CK73GB1H223K	CHIP C 0.022UF K		
C269			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C270,271			CK73GB1H223K	CHIP C 0.022UF K		
C272			CE04KW1C101M	ELECTRO 100UF 16WV		
C273			CK73GB1H104Z	CHIP C 0.10UF Z		
C274			CC73GCH1H101J	CHIP C 100PF J		
C285-287			CK73GB1H221K	CHIP C 220PF K		
C290			CE04KW1A101M	ELECTRO 100UF 10WV		
C293			C91-0757-05	CERAMIC 1000PF K		
C294			CK73GB1H102K	CHIP C 1000PF K		
C301,302			CK73GB1H102K	CHIP C 1000PF K		
C303,304			CE04KW1C101M	ELECTRO 100UF 16WV		
C305			CK73GB1H223K	CHIP C 0.022UF K		
C306			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C307,308			CK73GB1H183K	CHIP C 0.018UF K		
C309-312			CK73GB1H105Z	CHIP C 1.0UF Z		
C313,314			CE04KW1C101M	ELECTRO 100UF 16WV		
C315			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C316			CK73GB1H104Z	CHIP C 0.10UF Z		
C317			CE04KW1C470M	ELECTRO 47UF 16WV		
C319,320			CK73GB1H102K	CHIP C 1000PF K		
C321,322			CC73GCH1H820J	CHIP C 82PF J		
C323,324			CK73GB1H151J	CHIP C 150PF J		
C325			CE04KW1C221M	ELECTRO 220UF 16WV		
C326			CK73GB1H223K	CHIP C 0.022UF K		
C327-329			CE04KW1C101M	ELECTRO 100UF 16WV		
C331,332			CK73GB1H152K	CHIP C 1500PF K		
C333			CK73GB1H223K	CHIP C 0.022UF K		
C360			C91-1688-08	MYLAR 0.018UF K		
C362			CK73GB1H103K	CHIP C 0.010UF K		
C363,364			CK73GB1H102K	CHIP C 1000PF K		
C365			CE04KW1C331M	ELECTRO 330UF 16WV		
C366			CK73GB1H223K	CHIP C 0.022UF K		
C601,602		*	C91-1708-08	CHIP C 0.47UF K		
C603-612			CK73GB1H105Z	CHIP C 1.0UF Z		
C613,614			CC73GCH1H470J	CHIP C 47PF J		
C615,616		*	C91-1709-08	CHIP C 0.68UF Z		
C617,618		*	C91-1708-08	CHIP C 0.47UF K		
C619,620			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C621,622			CK73GB1H152K	CHIP C 1500PF K		
C623			CE04KW1C220M	ELECTRO 22UF 16WV		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C624			CK73GB1H104Z	CHIP C 0.10UF Z		
C625			CE04KW1C101M	ELECTRO 100UF 16WV		
C626			CK73GB1H223K	CHIP C 0.022UF K		
C627			CE04KW1C221M	ELECTRO 220UF 16WV		
C628,629			CK73GB1H221K	CHIP C 220PF K		
C631,632			CK73GB1H221K	CHIP C 220PF K		
C801			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C803,804			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C805,806			CK73GB1H331J	CHIP C 330PF J		
C809,810			CE04KW1C101M	ELECTRO 100UF 16WV		
C811,812			CE04KW1C332M	ELECTRO 3300UF 16WV		
C813,814			CE04KW1C101M	ELECTRO 100UF 16WV		
C815,816			C91-1681-08	FILM 0.1UF K		
C817			CK73GB1H104Z	CHIP C 0.10UF Z		
C818			CE04KW1E331M	ELECTRO 330UF 25WV		
C819			CE04KW1E472M	ELECTRO 4700UF 25WV		
C820		*	C91-1706-08	CERAMIC 0.1UF Z		
C821,822			CK73GB1H152K	CHIP C 1500PF K		
C823,824			CC73GCH1H101J	CHIP C 100PF J		
C825,826			CK73GB1H331J	CHIP C 330PF J		
C827,828		*	CK73GB1H223K	CHIP C 0.022UF K		
C829			C91-1711-08	CERAMIC 0.22UF Z		
C830			CE04KW1C101M	ELECTRO 100UF 16WV		
C831			CE04KW1C221M	ELECTRO 220UF 16WV		
C832			CE04KW1A101M	ELECTRO 100UF 10WV		
C833			CE04KW1C100M	ELECTRO 10UF 16WV		
C834			CK73GB1H473K	CHIP C 0.047UF K		
VC201			C91-1684-08	Trimmer 20 pF 05-08200-22		
VC202			C91-1683-08	Trimmer 10 pF 05-08100-22		
CN802			E70-0196-08	Speaker Termin 12-00006-00Q		
JK801			E63-1365-08	3.5 mm H/P Jac 12-21235-17		
CF201			L79-1303-08	CER Filter CQB 09-50450-09		
CF202			L72-0650-08	CER. Filter LT 09-50107-16		
CF203			L79-1302-08	CER DIS. 10.7M 09-50107-07		
L201			L92-0813-08	Fixed Inductor 09-70056-00		
L203			L32-1063-08	FM Coil .5.5 m 09-25055-00W		
L204			L32-1064-08	FM Coil .5.5 m 09-35055-00W		
L205			L92-0814-08	Inductor 10 μ 09-70101-02T		
L208			L32-1065-08	FM Coil .5.5 m 09-45055-00		
L301,302			L33-1704-08	Choke Coil 47 09-40474-00		
L806			L92-0817-08	Axial Inductor 09-70470-01		
L807,808			L92-0816-08	Axial Inductor 09-70222-03T		
L809			L92-0815-08	Axial Lead Ind 09-70102-02T		
L810			L92-0818-08	Fixed Inductor 09-70471-02		
T201			L30-0992-08	AM IFT A010-86 08-05200-00		
T202			E35-3714-08	10 mm IFT Red 08-01014-02		
T203			L32-1062-08	AM ANT Coil OA 08-86436-70		
T360			L32-1060-08	10 mm REC Bias 08-00053-00C		
X250			L77-2435-08	Crystal 4.332 04-04332-06		
X260			L77-2436-08	Crystal 7.2 MH 04-07200-05D		
Q361			RK73GB1J000J	CHIP R 0 J 1/16W		
R1			RK73GB1J000J	CHIP R 0 J 1/16W		
R200			RK73GB1J274J	CHIP R 270K J 1/16W		
R201			RK73FB2B331J	CHIP R 330 J 1/8W		

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R202			RK73GB1J154J	CHIP R 150K J 1/16W		
R203			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R204			RK73GB1J100J	CHIP R 10 J 1/16W		
R205			RK73GB1J274J	CHIP R 270K J 1/16W		
R206			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R207			RK73GB1J103J	CHIP R 10K J 1/16W		
R208			RK73GB1J334J	CHIP R 330K J 1/16W		
R209,210			RK73GB1J100J	CHIP R 10 J 1/16W		
R211,212			RK73GB1J123J	CHIP R 12K J 1/16W		
R213,214			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R215			RK73GB1J473J	CHIP R 47K J 1/16W		
R216,217			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R218			RK73GB1J473J	CHIP R 47K J 1/16W		
R219			RK73GB1J474J	CHIP R 470K J 1/16W		
R220			RK73GB1J101J	CHIP R 100 J 1/16W		
R221			RK73GB1J561J	CHIP R 560 J 1/16W		
R223			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R226			RK73GB1J104J	CHIP R 100K J 1/16W		
R229			RK73GB1J104J	CHIP R 100K J 1/16W		
R231			RK73GB1J473J	CHIP R 47K J 1/16W		
R233			RK73GB1J101J	CHIP R 100 J 1/16W		
R234,235			RK73GB1J103J	CHIP R 10K J 1/16W		
R237			RK73GB1J681J	CHIP R 680 J 1/16W		
R238,239			RK73GB1J103J	CHIP R 10K J 1/16W		
R242			RK73GB1J223J	CHIP R 22K J 1/16W		
R244			RK73GB1J104J	CHIP R 100K J 1/16W		
R247,248			RK73GB1J822J	CHIP R 8.2K J 1/16W		
R254			RK73GB1J220J	CHIP R 22 J 1/16W		
R256			RK73GB1J104J	CHIP R 100K J 1/16W		
R259			RK73GB1J103J	CHIP R 10K J 1/16W		
R261-263			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R265			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R267			RK73GB1J561J	CHIP R 560 J 1/16W		
R268,269			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R270			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R271			RK73GB1J103J	CHIP R 10K J 1/16W		
R277			RK73GB1J103J	CHIP R 10K J 1/16W		
R280			RK73GB1J103J	CHIP R 10K J 1/16W		
R284			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R285			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R286			RK73GB1J104J	CHIP R 100K J 1/16W		
R288			RK73GB1J103J	CHIP R 10K J 1/16W		
R297			RK73GB1J103J	CHIP R 10K J 1/16W		
R301-304			RK73GB1J103J	CHIP R 10K J 1/16W		
R305,306			RK73GB1J101J	CHIP R 100 J 1/16W		
R307,308			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R309,310			RK73GB1J471J	CHIP R 470 J 1/16W		
R311-314			RK73GB1J103J	CHIP R 10K J 1/16W		
R315,316			RK73GB1J153J	CHIP R 15K J 1/16W		
R317,318			RK73GB1J224J	CHIP R 220K J 1/16W		
R319,320			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R321,322			RK73GB1J103J	CHIP R 10K J 1/16W		
R323			RK73GB1J104J	CHIP R 100K J 1/16W		
R326			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R327,328			RK73GB1J103J	CHIP R 10K J 1/16W		

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R330,331			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R332			RK73GB1J104J	CHIP R 100K J 1/16W		
R333,334			RK73GB1J103J	CHIP R 10K J 1/16W		
R335			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R336			RK73GB1J473J	CHIP R 47K J 1/16W		
R337			RK73GB1J103J	CHIP R 10K J 1/16W		
R338			RK73GB1J473J	CHIP R 47K J 1/16W		
R339			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R340			RK73GB1J103J	CHIP R 10K J 1/16W		
R341			RK73GB1J000J	CHIP R 0 J 1/16W		
R346			RK73GB1J104J	CHIP R 100K J 1/16W		
R347,348			RK73GB1J302J	CHIP R 3.0K J 1/16W		
R360			RK73GB1J4R7J	CHIP R 4.7 J 1/16W		
R365			RK73GB1J273J	CHIP R 27K J 1/16W		
R605,606			RK73GB1J471J	CHIP R 470 J 1/16W		
R607,608			RK73GB1J394J	CHIP R 390K J 1/16W		
R609,610			RK73GB1J471J	CHIP R 470 J 1/16W		
R611,612			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R621,622			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R623,624			RK73GB1J473J	CHIP R 47K J 1/16W		
R801,802			RK73GB1J123J	CHIP R 12K J 1/16W		
R803			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R804			RK73GB1J473J	CHIP R 47K J 1/16W		
R805,806			RK73GB1J392J	CHIP R 3.9K J 1/16W		
R807,808			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R809,810			RK73GB1J333J	CHIP R 33K J 1/16W		
R811,812			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R813,814			RK73GB1J103J	CHIP R 10K J 1/16W		
R815			RK73GB1J220J	CHIP R 22 J 1/16W		
R817			RK73GB1J104J	CHIP R 100K J 1/16W		
R818			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R819			RK73GB1J103J	CHIP R 10K J 1/16W		
⚠ R820			RD14BB2H680J	RD 68 J 1/2W		
R822			RK73GB1J220J	CHIP R 22 J 1/16W		
D201-204			1N4148	Diode 1N4148 (02-04148-00W		
D301-303			1N4148	Diode 1N4148 (02-04148-00W		
D802			1N4148	Diode 1N4148 (02-04148-00W		
D803			1N4001	Diode W-1N4001 02-04001-00T		
⚠ ICP			ICP-F20	IC(IC PROTECTOR)		
Q201			9018	Transistor 901 01-09018-10		
Q202-204			9014	Transistor 901 01-09014-05		
Q205-207			9013G	Transistor 901 01-09013-11B		
Q208			9014	Transistor 901 01-09014-05		
Q251			8550D	Transistor 855 01-08550-06		
Q252			9013G	Transistor 901 01-09013-11B		
Q260-263			9014	Transistor 901 01-09014-05		
Q280			9013G	Transistor 901 01-09013-11B		
Q281			8550D	Transistor 855 01-08550-05B		
Q301-306			2SC2412K	Transistor 2SC 01-02412-00R		
Q307,308			8050	Transistor 805 01-08050-06		
Q309			8550D	Transistor 855 01-08550-06		
Q310-312			9013G	Transistor 901 01-09013-11B		
Q313			8550D	Transistor 855 01-08550-06		
Q315-317			9013G	Transistor 901 01-09013-11B		

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Q360 Q601,602 Q801,802 Q803 Q804			8050 9014 8050 KTD2058Y 8550D	Transistor 805 Transistor 901 Transistor 805 Transistor KTD Transistor 855	01-08050-06 01-09014-05 01-08050-06 01-02058-00 01-08550-05B	
Q805 Q806 U201 U250 U260			8050 KTD2058Y TA2104AFN BU1924F TC9257F	Transistor 805 Transistor KTD IC TA2104AFN IC BU1924F IC TC9257F	01-08050-06 01-02058-00 03-02104-02 03-01924-00 03-09257-01	
U301 U601 U801 U802 VD201			TA8142AP TC9422F BA5415A L7812C SVC348T	IC TA8142AP TO IC TC9422F TOS IC BA5415A ROH IC L7812C (ARR Tuning Diode S	03-08142-00 03-09422-00 03-05415-00 03-07812-00A 02-00348-01	
VD202-205 ZD801 ZD802			SVC201SPA MTZJ9.1B MTZJ6.2B	Tuning Diode S Zener Diode 9 Zener Diode 6	02-00201-00 02-50091-00 02-50062-00	
FRONT						
LED180 LED181 LED182		*	B30-2682-08 B30-2674-08 B30-2682-08	LED .3 mm ORG 3 mm Red LED L LED .3 mm ORG	02-30473-03 02-30934-05 02-30473-03	
C117,118 C180 C183			CK73GB1H103K CE04KW1A470M CK73GB1H223K	CHIP C ELECTRO CHIP C	0.010UF K 47UF 10WV 0.022UF K	
R150 R151 R152 R153 R154			RK73GB1J471J RK73GB1J681J RK73GB1J332J RK73GB1J302J RK73GB1J682J	CHIP R CHIP R CHIP R CHIP R CHIP R	470 J 1/16W 680 J 1/16W 3.3K J 1/16W 3.0K J 1/16W 6.8K J 1/16W	
R155 R156 R157 R158 R159			RK73GB1J752J RK73GB1J822J RK73GB1J153J RK73GB1J273J RK73GB1J823J	CHIP R CHIP R CHIP R CHIP R CHIP R	7.5K J 1/16W 8.2K J 1/16W 15K J 1/16W 27K J 1/16W 82K J 1/16W	
R160 R161 R162 R163 R164			RK73GB1J750J RK73GB1J471J RK73GB1J152J RK73GB1J102J RK73GB1J272J	CHIP R CHIP R CHIP R CHIP R CHIP R	75 J 1/16W 470 J 1/16W 1.5K J 1/16W 1.0K J 1/16W 2.7K J 1/16W	
R165 R166 R167 R168 R169			RK73GB1J392J RK73GB1J272J RK73GB1J392J RK73GB1J562J RK73GB1J822J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.9K J 1/16W 2.7K J 1/16W 3.9K J 1/16W 5.6K J 1/16W 8.2K J 1/16W	
R170 R171 R172 R173 R180			RK73GB1J153J RK73GB1J273J RK73GB1J823J RK73GB1J750J RK73GB1J100J	CHIP R CHIP R CHIP R CHIP R CHIP R	15K J 1/16W 27K J 1/16W 82K J 1/16W 75 J 1/16W 10 J 1/16W	
R181,182 R183 R184,185 R186			RK73GB1J103J RK73GB1J332J RK73GB1J151J RK73GB1J104J	CHIP R CHIP R CHIP R CHIP R	10K J 1/16W 3.3K J 1/16W 150 J 1/16W 100K J 1/16W	

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R188			RK73GB1J102J	CHIP R	1.0K J 1/16W	
SW100-118			S70-0116-08	Tact Switch	16-10101-08C	
D104,105 D106 Q180,181 Q182 U102			1N4148 1N4148 9014 8550D RPM6938-V4	Diode 1N4148 (Diode DL4148 S Transistor 901 Transistor 855 Sensor RPM6938	02-04148-00W 02-04148-03 01-09014-05 01-08550-06 02-66938-00	
DISPLAY						
LCD101		*	B38-0276-08	LCD Display	91-00437-00	
C101 C102 C103 C104 C105-108			CE04KW1A471M CK73GB1H104Z CE04KW1C100M CK73GB1H104Z CC73GCH1H240J	ELECTRO CHIP C ELECTRO CHIP C CHIP C	470UF 10WV 0.10UF Z 10UF 16WV 0.10UF Z 24PF J	
C109 C110 C111 C112,113 C114-116			CE04KW1A221M CK73GB1H223K CK73GB1H105Z CK73GB1H223K CK73GB1H103K	ELECTRO CHIP C CHIP C CHIP C CHIP C	220UF 10WV 0.022UF K 1.0UF Z 0.022UF K 0.010UF K	
C119 C121 C122			CK73GB1H104Z CK73GB1H223K CK73GB1H105Z	CHIP C CHIP C CHIP C	0.10UF Z 0.022UF K 1.0UF Z	
For CN105 L101 X101 X102			L92-0821-08 L92-0818-08 L77-2443-08 L77-2438-08	Ferrite Core Fixed Inductor Crystal 7.2 MH Crystal 3 X 8	08-04344-21 09-70471-02 04-07200-08 04-32768-09	
R2 R3 R4,5 R101 R103			RK73GB1J000J RK73GB1J103J RK73GB1J000J RK73GB1J473J RK73GB1J103J	CHIP R CHIP R CHIP R CHIP R CHIP R	0 J 1/16W 10K J 1/16W 0 J 1/16W 47K J 1/16W 10K J 1/16W	
R104 R107 R108 R109 R110			RK73GB1J222J RK73GB1J103J RK73GB1J102J RK73GB1J103J RK73GB1J102J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K J 1/16W 10K J 1/16W 1.0K J 1/16W 10K J 1/16W 1.0K J 1/16W	
R112,113 R114,115 R117,118 R119 R120			RK73GB1J103J RK73GB1J472J RK73GB1J104J RK73GB1J472J RK73GB1J103J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K J 1/16W 4.7K J 1/16W 100K J 1/16W 4.7K J 1/16W 10K J 1/16W	
R121 R123 R124 R125 R128-135			RK73GB1J104J RK73GB1J124J RK73GB1J102J RK73GB1J104J RK73GB1J103J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K J 1/16W 120K J 1/16W 1.0K J 1/16W 100K J 1/16W 10K J 1/16W	
R136 R137 R138 R139 R140			RK73GB1J102J RK73GB1J103J RK73GB1J822J RK73GB1J103J RK73GB1J220J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K J 1/16W 10K J 1/16W 8.2K J 1/16W 10K J 1/16W 22 J 1/16W	
R141,142			RK73GB1J103J	CHIP R	10K J 1/16W	

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R143-145 R148,149 R174			RK73GB1J102J RK73GB1J103J RK73GB1J222J	CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W CHIP R 2.2K J 1/16W		
D101-103 D107 Q101 Q103 Q104			1N4148 1N4148 9014 8550D 9013G	Diode 1N4148 02-04148-00W Diode 1N4148 02-04148-00W Transistor 901 01-09014-05 Transistor 855 01-08550-04B Transistor 901 01-09013-11B		
Q105 Q106 U101			8550D 9013G 87EP26F-4K76	Transistor 855 01-08550-04B Transistor 901 01-09013-11B IC CPU TMP 87E 03-87261-00		
MP3						
C700 C701 C702 C703 C704			CE04KW1C471M CK73GB1H223K CE04KW1C470M CK73GB1H223K CE04KW1C221M	ELECTRO 470UF 16WV CHIP C 0.022UF K ELECTRO 47UF 16WV CHIP C 0.022UF K ELECTRO 220UF 16WV		
C705,706 C707 C708 C710 C711			CE04KW1C470M CE04KW1C221M CE04KW1C470M CE04KW1C220M CE04KW1C470M	ELECTRO 47UF 16WV ELECTRO 220UF 16WV ELECTRO 47UF 16WV ELECTRO 22UF 16WV ELECTRO 47UF 16WV		
C712 C713 C714 C715 C716			CK73GB1H223K CE04KW1C470M CK73GB1H105Z CE04KW1C470M CK73GB1H223K	CHIP C 0.022UF K ELECTRO 47UF 16WV CHIP C 1.0UF Z ELECTRO 47UF 16WV CHIP C 0.022UF K		
C717,718 C719,720 C721 C722,723 C724			CC73GCH1H300J CE04KW1C470M CK73GB1H223K CE04KW1C470M CE04KW1C471M	CHIP C 30PF J ELECTRO 47UF 16WV CHIP C 0.022UF K ELECTRO 47UF 16WV ELECTRO 470UF 16WV		
C725 C726-728 C729 C730 C731,732		*	C91-1708-08 CK73GB1H104Z C91-1708-08 CK73GB1H104Z CK73GB1H473K	CHIP C 0.47UF K CHIP C 0.10UF Z CHIP C 0.47UF K CHIP C 0.10UF Z CHIP C 0.047UF K		
C733,744 C735 C736 C737 C738		*	CE04KW1H010M CE04KW1C470M CK73GB1H153K CK73GB1H103K CC73GCH1H470J	ELECTRO 1.0UF 50WV ELECTRO 47UF 16WV CHIP C 0.015UF K CHIP C 0.010UF K CHIP C 47PF J		
C739 C740 C741 C742,743 C744			CK73GB1H272J CE04KW1C470M CK73GB1H473K CK73GB1H471K CK73GB1H473K	CHIP C 2700PF J ELECTRO 47UF 16WV CHIP C 0.047UF K CHIP C 470PF K CHIP C 0.047UF K		
C745 C746 C747 C748,749 C750,751			CK73GB1H104Z CK73GB1H472K CE04KW1C470M CK73GB1H473K CK73GB1H152K	CHIP C 0.10UF Z CHIP C 4700PF K ELECTRO 47UF 16WV CHIP C 0.047UF K CHIP C 1500PF K		
C752 C753			CE04KW1C470M CK73GB1H223K	ELECTRO 47UF 16WV CHIP C 0.022UF K		

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* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C754 C755-762 C763 C764 C765			CE04KW1C470M CK73GB1H223K CK73GB1H105Z CK73GB1H334Z CC73GCH1H101J	ELECTRO 47UF 16WV CHIP C 0.022UF K CHIP C 1.0UF Z CHIP C 0.33UF Z CHIP C 100PF J		
C766,767 C768 C769 C770 C771			CK73GB1H223K CE04KW1C470M CK73GB1H181J CE04KW1C101M CC73GCH1H101J	CHIP C 0.022UF K ELECTRO 47UF 16WV CHIP C 180PF J ELECTRO 100UF 16WV CHIP C 100PF J		
C772,773 C774 C775 C776 C778			CK73GB1H224K CK73GB1H104Z CC73GCH1H020C CK73GB1H104Z CK73GB1H223K	CHIP C 0.22UF K CHIP C 0.10UF Z CHIP C 2.0PF C CHIP C 0.10UF Z CHIP C 0.022UF K		
C779 C780 C781 C782 C783			CE04KW1C101M CE04KW1C221M CK73GB1H223K CE04KW1C470M CK73GB1H223K	ELECTRO 100UF 16WV ELECTRO 220UF 16WV CHIP C 0.022UF K ELECTRO 47UF 16WV CHIP C 0.022UF K		
C784,785 C789			CK73GB1H473K CK73GB1H223K	CHIP C 0.047UF K CHIP C 0.022UF K		
CN704		*	E41-1497-08	Lead Free 16 P 20-80160-82		
For CN700 L701,702 L703,704 L706-709 L710	.701	*	L92-0830-08 L92-0825-08 L92-0814-08 L92-0825-08 L92-0831-08	Ferrite Core T 08-04344-23 Lead Free Axia 09-70471-80 Inductor 10 μ 09-70101-02T Lead Free Axial 09-70471-80 Lead Free Axia 09-70101-80		
X701			L77-2437-08	Crystal 16.934 04-16934-49		
L705 R701,702 R703,704 R706,707 R708			RD14BB2H3R3J RK73GB1J271J RK73GB1J222J RK73GB1J222J RK73GB1J103J	RD 3.3 J 1/2W CHIP R 270 J 1/16W CHIP R 2.2K J 1/16W CHIP R 2.2K J 1/16W CHIP R 10K J 1/16W		
R716 R717 R718 R719 R720			RK73GB1J203J RK73GB1J101J RK73GB1J203J RK73GB1J221J RK73GB1J471J	CHIP R 20K J 1/16W CHIP R 100 J 1/16W CHIP R 20K J 1/16W CHIP R 220 J 1/16W CHIP R 470 J 1/16W		
R721-727 R728 R729 R730 R731			RK73GB1J332J RK73GB1J472J RK73GB1J224J RK73GB1J683J RK73GB1J103J	CHIP R 3.3K J 1/16W CHIP R 4.7K J 1/16W CHIP R 220K J 1/16W CHIP R 68K J 1/16W CHIP R 10K J 1/16W		
R732 R733 R734 R735-737 R738			RK73GB1J332J RK73GB1J473J RK73GB1J471J RK73GB1J103J RK73GB1J102J	CHIP R 3.3K J 1/16W CHIP R 47K J 1/16W CHIP R 470 J 1/16W CHIP R 10K J 1/16W CHIP R 1.0K J 1/16W		
R739 R740 R741 R742			RK73GB1J103J RK73GB1J472J RK73GB1J103J RK73GB1J101J	CHIP R 10K J 1/16W CHIP R 4.7K J 1/16W CHIP R 10K J 1/16W CHIP R 100 J 1/16W		

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PARTS LIST

* New Parts

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Ref. No	Add- ress	New Parts	Parts No.	Description				Desti- nation	Re- marks
R743-748			RK73GB1J473J	CHIP R	47K	J	1/16W		
R749			RK73GB1J103J	CHIP R	10K	J	1/16W		
R750			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R751-753			RK73GB1J103J	CHIP R	10K	J	1/16W		
R754			RK73GB1J225J	CHIP R	2.2M	J	1/16W		
R755			RK73GB1J103J	CHIP R	10K	J	1/16W		
R756			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R757,758			RK73GB1J271J	CHIP R	270	J	1/16W		
R759			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R760-773			RK73GB1J103J	CHIP R	10K	J	1/16W		
R774-780			RK73GB1J103J	CHIP R	10K	J	1/16W		
R781			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R782			RK73GB1J273J	CHIP R	27K	J	1/16W		
R783			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R784			RK73GB1J473J	CHIP R	47K	J	1/16W		
R785			RK73GB1J221J	CHIP R	220	J	1/16W		
R786			RK73GB1J333J	CHIP R	33K	J	1/16W		
R787,788			RK73GB1J103J	CHIP R	10K	J	1/16W		
R789			RK73GB1J823J	CHIP R	82K	J	1/16W		
R790			RK73GB1J100J	CHIP R	10	J	1/16W		
R791-793			RK73GB1J103J	CHIP R	10K	J	1/16W		
R795-797			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R798			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R800-802			RK73GB1J220J	CHIP R	22	J	1/16W		
R803			RK73GB1J103J	CHIP R	10K	J	1/16W		
R804			RK73GB1J273J	CHIP R	27K	J	1/16W		
Q701-704			8050	Transistor 805	01-08050-06				
Q705			8550	Transistor 855	01-08550-06				
Q706,707			8050	Transistor 805	01-08050-06				
U700			TC94A02F-007	IC TC94A02F-00	03-09402-01				
U701			TC9462F	IC TC9462F	03-09462-00				
U702			NJM7805FA	IC(VOLTAGE REGULATOR)					
U703			TA2092N	IC TA2092N TOS	03-02092-00				
U704			TA2153FN	IC TA2153FN TO	03-02153-00				
U705			AS7C31024-15	IC AS7C31024-1	03-31024-00				
U706			MC74HC14AD	IC MC74HC14AD	03-07414-01				
ZD701			MTZJ3.9B	Zener Diode 3.	02-50039-00				
ZD702,703			MTZJ3.3B	Zener Diode 3.	02-50033-00				
CASS. MECHANISM									
BM	2B	*	D16-0809-08	MAIN BELT	A-4003-3B				
BS	2B	*	D16-0810-08	SUB BELT	L-4003-0				
PR	2B	*	D14-0832-08	PINCH ROLLER	L-03				

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SPECIFICATIONS

Power consumption 25 W
Dimensions W : 145mm (5-11/16")
 H : 210 mm (8-1/4")
 D : 227 mm (8-15/16")
Weight (net) 2.8 kg (6.2 lb)

- KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).