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Opening & Keyboard Disassembling Instructions Autotest Procedure Autotest Procedure, Frequently Asked Questions Block Diagram Power Amplifier & Supply, Outputs and Phones Boards Keyboard Interface and L/R Contact Boards Controls Panel and Display Boards Cpu & Sound Generator Board Layout & Timing Table Cpu & Sound Generator Board Spare Part List



► CODE: 270247

Warnings

Notice

Service must be carried out by qualified personnel only. Any tampering carried out by unqualified personnel during the guarantee period

Logic supply ground.
Analog supply ground.

Chassis ground.

will forfeit the right to guarantee.

For a correct operation of the instrument, after having switched off, be careful to wait at least 3 seconds before switching on again To improve the device's specifications, the schematic diagrams may be subject to change without prior notice.

All components marked by this symbol have special safety characteristics, when replacing any of these components use only

manufacturer's specified parts.

The (u) micro symbol of capacitance value is substituted by U.

The (a) omega symbol of resistance value is substituted by E.

The electrolytic capacitors are 25Vdc rated voltage unless otherwise specified.

All resistors are 18/W unless otherwise specified.

All switches shown in the "OFF" position, All DC voltages measured to ground with a voltmeter 20KOhm/V.

Soldering policy.

Male connector.

Tests point.

Analog supply group of the policy of the policy.

The policy of the poli

Supply voltage.

Test point.

Flag joined with one or more flags with the same signal name inscribed.

- Final connector.

- Final connector.

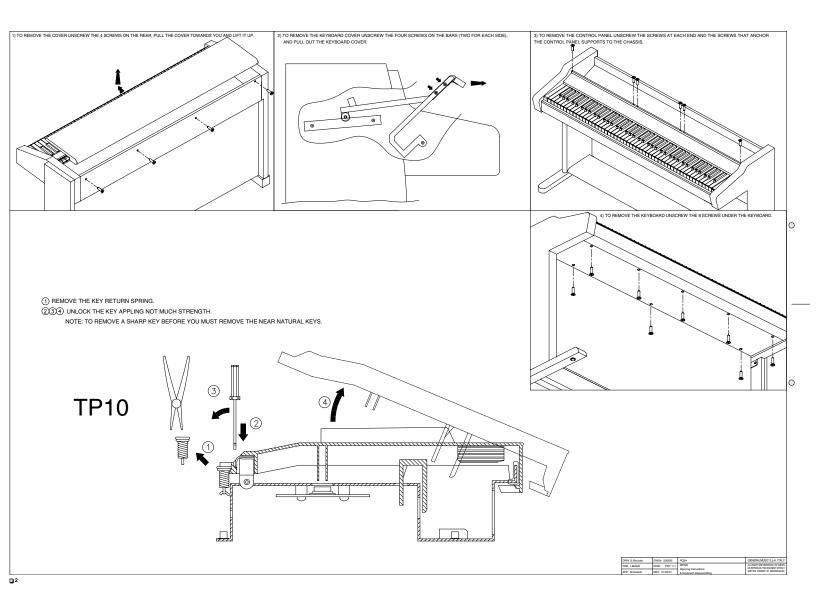
- Final point with one or more flags with the same signal name inscribed.

- Final point with the same signal name inscribed.

- Final point with one or more flags with the same signal name inscribed.

Address

GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY - Via delle Rose, 12 Phone + 39(0)541/959511 · Fax + 39(0)541/957404 · GENERALMUSIC on the NET: http://www.generalmusic.com



RP200-220 GRP300 INITIAL CHECK

RP200-220 GRP300 AUTOTEST PROCEDURE

Operations Description

Remove the secondary fuses F1, F2, F3, located on POWER AMPLIFIER & SUPPLY BOARD; turn on the

The following procedures must be executed subsequently in the specified order.

Before turn on the instrument check the jumpers setting on CPU & SOUND GENERATOR BOARD corresponds at the model accordingly to the following table:

J4 J5 J3 J6 J2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 2-3 1-2 1-2 1-2 2-3 2-3 1-2 1-2 2-3 2-3 2-3 V.2.00 or greater 1-2 1-3 2-2 2-3 2-3 V.2.00 or greater 1-2 1-2 2-3 1-2 V.2.02 or greater 1-2 1-2 2-3 1-2 2-3 V.2.02 or greater

Turn on the instrument and the appropriate welcome message appears on the display.

The following procedures must be execu-

Remove the secondary tuses F1, F2, F3, located instrument and verify the supply AC voltages: (CN6) between pin1 and pin2 = $27,5 \pm 1,5$ Vac (CN6) between pin1 and pin3 = $27,5 \pm 1,5$ Vac (CN6) between pin2 and pin3 = 55 ± 3 Vac (CN12) between pin2 and pin3 = 55 ± 3 Vac (CN12) between pin1 and pin3 = $16 \pm 0,6$ Vac (CN12) between pin1 and pin3 = $16 \pm 0,6$ Vac (CN12) between pin2 and pin3 = $16 \pm 0,6$ Vac (CN12) between pin3 = $16 \pm 0,6$ Vac (CN12) between pin3 = $16 \pm 0,6$ Vac

Turn off the instrument, and put the fuses back on its holders.

The LCD display test fades from light to dark and viceversa.

Check that all leds are lighting.

A few seconds later the led GRAND PIANO light.

Check the supply DC voltages on CPU & SOUND GENERATOR BOARD:

(CN8) between pin9 and pin7 = +5 ± 0,25Vdc

(CN8) between pin1 and pin4 = +12 ± 0,6Vdc

(CN8) between pin1 and pin5 = -12 ± 0,6Vdc

Operations Description

MODEL RP200 GEM RP200 BALDWIN GRP300 GEM GRP300 BALDWIN

RP220 GEM RP220 BALDWIN

rev. 02-02-01

Display

PIANOVELLE RP200 BALDWIN GRP300 REALPIANO

PIANOVELLE

GRP300 BALDWIN RP220 REALPIANO GEM PIANOVELLE RP220 BALDWIN

|INTERNAL PRESET| | GRAND PIANO | |GR.PIANO sel.:1

Display

.....

...........

Are all leds on?

Check the VOLUMES ranges from 0 to 127. Check all buttons (except GRAND PIANO) pressing their one at a time and checking that corresponding led lights, pressing PAGE UP and DOWN buttons the display shows "U" and "D", pressing DATA + and -buttons the display shows "+" and "-", pressing MASTER EQ and DSP buttons the display shows an "X" in 1 and 2 digits, pressing UP, LEFT, DOWN and RIGHT buttons the display shows an "X" in 3, 4, 5 and 6 digits respectively.	Button test
Check the SOFT and SUSTAIN pedals, pressing each one the value change from 0 (released) to 127 (pressed), the DAMPER pedal varying its value continuosly from 0 (released) to nearly 127 (pressed).	Soft Sust Damp 0 0 0
Check the MIDI I/O connecting the MIDI OUT and MIDI IN sockets by a MIDI cable.	TEST MIDI IN/OUT
Check COMPUTER I/O shorting pin 3 and pin 5 on the COMPUTER socket, check with the oscilloscope a 4 Vpp (1Mh2) signal on pin 1, set volume to half stroke.	TST COMPUTER I/O
The instrument generates a 1KHz sinusoidal signal in both audio channels reading data from 104043 ROM. VOLUME controls the amplitude of signal and TRANSPOSE b and # buttons controls the frequency from 10Hz to 2756Hz.	SINUS. SWEEP Freq. 1000 Hz
Re-set the frequency at 1KHz and check HEADPHONES and AUX outputs with the oscilloscope inserting a stereo jack in the left phones socket (speakers will go be silent) and two mono jack in the AUX OUT sockets and set volume to its maximum.	
Now verify the following level of signals: Phones output without load = 5.7 ± 1.1 Vpp and AUX output = 0.8 ± 0.16 Vpp	
Set the VOLUME to minimum. Apply a sinusoidal signal of 0.730/pp at 1KHz with a generator to the AUX IN left and right sockets and verify the signal output: AUX output = 1,35 ± 0.07/pp	
The instrument generates a tone signal in both audio channels reading data from 104023 ROM.	TONE ON 104023
Autotest is over, turn off the instrument.	TEST END: SWITCH POWER TO RESTART
RP200-220 GRP300 O.S. UPDATING PROCEDURE up to ver. 2.00 with Updating So	oftware Board (751180)
Operations Description	Display
Start with the instrument in AUTOTEST mode as described above and press GRAND PIANO 2 times until the display show the software version loaded in flash memory.	mmm dd yyyy hh:mm:ss V #.##
Press GRAND PIANO to skip this procedure.	EPROM to FLASH push REC to prog
The instrument performs the flash memory data checksum and displays it in hexadecimal value.	Wait * Eprom Checksum
Compare the software version and checksum with the value imprinted onto the EPROM, if one of these does not match, the system must be upgraded, proceed to the next step.	
Turn off the instrument.	
Insert the EDDOM BOADD (where the energting system is stored) in the CN2 connector located on CDII	d.

Insert the EPROM BOARD (where the operating system is stored) in the CN3 connector located on CPU

Start with the instrument in AUTOTEST mode as described above and press GRAND PIANO 3 times.

The instrument erases the previous data in flash memory. After which the instrument displays the amount of memory programming and finally the operation successful. If the programming fails check the EPROM BOARD connection and repeat this procedure from start.

& SOUND GENERATOR BOARD.

When the display shows this message press REC.

EPROM to FLASH

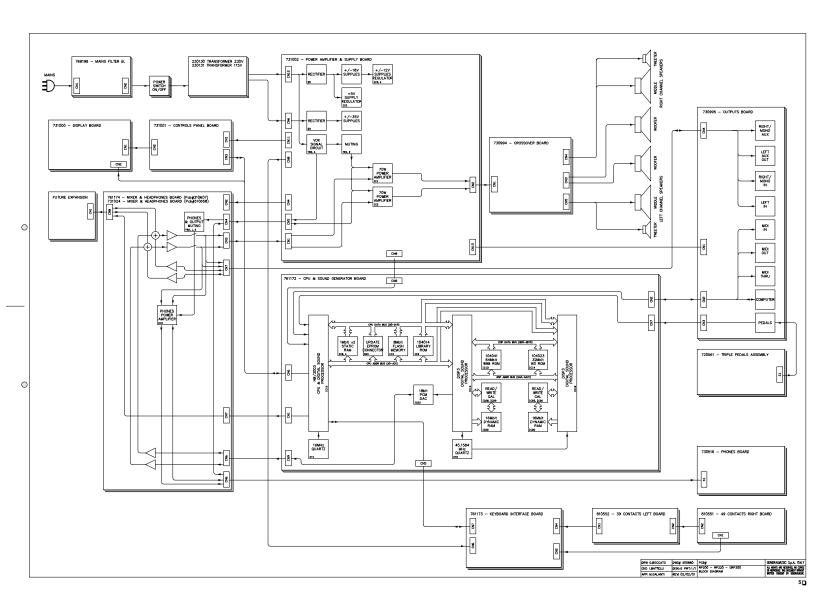
EPROM to FLASH prog: 1024/1024K

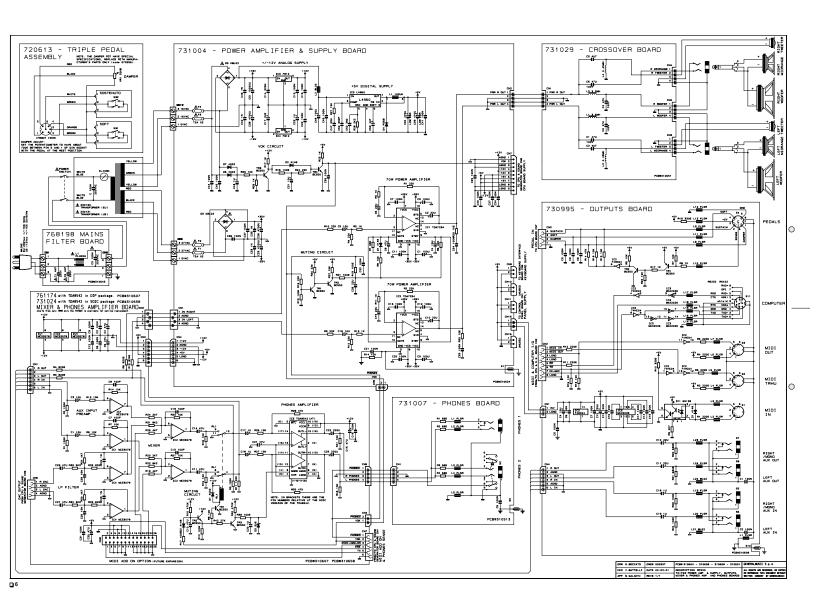
|Wait * cks BT PR ALL

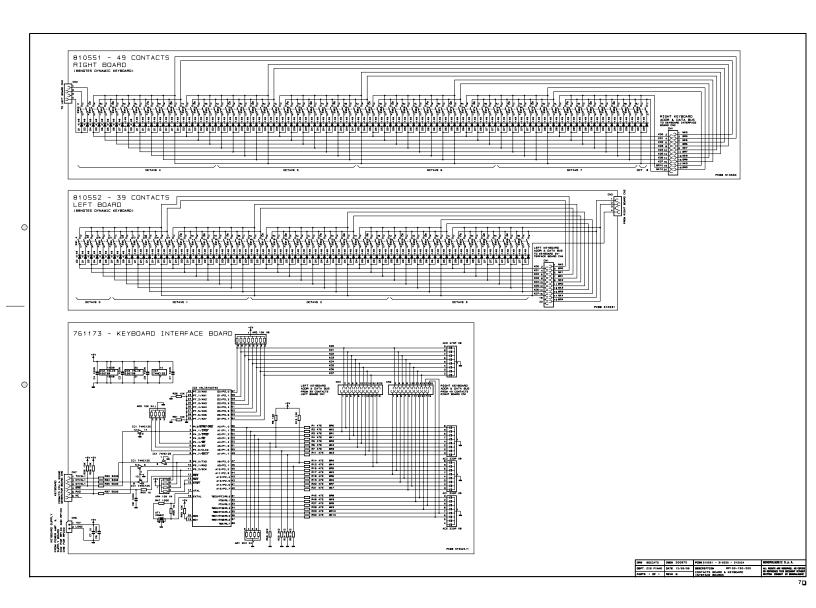
Start with the instrument in AUTOTEST mode as described above and press GRAND PIANO 2 times until the display show the new software version loaded in flash memory.	mmm dd yyyy hh:mm:ss V #.##
Press GRAND PIANO to skip this procedure.	EPROM to FLASH push REC to prog
The instrument performs the flash memory data checksum and display it in hexadecimal value, compare this value with the value imprinted onto the EPROM: If it matches the procedure has been executed successfully.	Wait * Eprom Checksum
The procedure proceed as described in AUTOTEST section, if you do not want to check the rest of the instrument simply turn off it.	
RP200-220 GRP300 O.S. UPDATING PROCEDURE from Serial Port (COMPUTER	l) ver. 2.xx or greater
Operations Description	Display
NOTE: This procedure is valid only if the software version installed on the piano is the 2.00 or greater. Some additional tips and advices are included in the Flashblaster Firmware Update Disk. The disk containing the Flaster program can also be downloaded by internet at generalmusic web site (www.generalmusic.com) or required at support@generalmusic.com	
Connect the serial cable between the COMPUTER of the piano and the RS232 COM port of the computer (PC-Ibm or compatible).	
Insert the disk in the drive A (or whatever your 3.5 " drive is assigned to), open the contents of drive A and double click on the fblaster.exe file.	
From the OPTIONS/SETTINGS menu, make sure that the TEST AND PROGRAM choice is selected. This is very important.	
Turn on the piano, while holding down the REC button until the display shows:	READY TO UPDATE
Click with the mouse on the GO! button or, from the ACTION menu, select EXECUTE (ALT+A, E). The plano display appears as follows:	TESTING n1/n2 PACKETS
At the end of the test the following display appears:	TEST OK
After a short time, the following display appears:	ERASING
You are now erasing the old operating system from FLASH memory. When the system is erased, the following display appears as your new operating system is installed into Flash Memory:	UPDATING n1/n2 PACKETS
When the entire update procedure is completed, the following display appears:	UPDATE_OK:SWITCH POWER TO RESTART
The update has now been successfully completed. Turn off the power switch on the piano, and turn it back on again to use your updated instrument.	
RP200-220 GRP300 Some Repairing Tips	
Operations Description	Display
This message could be appear if an error occur on the communication channel. Possible solutions: 1) inconsistent data received on MIDI or COMPUTER input socket, check the ratings of the device connected to the piano. 2) if the error persist, try to replace Outputs Board first and CPU board second.	MIDI SCI error
This message could be appear if an error occur on the communication channel. Possible solutions: 1) verify all the connections between Keyboard Interface Board and the CPU board. 2) if the error persist, try to replace Keyboard Interface Board first and CPU board second.	VALIS SCI error
This message could be appear if an error occur on the communication between CPU and DISP3 chips. Possible solutions: 1) verify all the tracks, solders and components between CPU and DISP3 chips as shown in schematics. 2) if the error persist, replace the CPU board and send back to generalmusic the failed CPU board.	Disp Failure

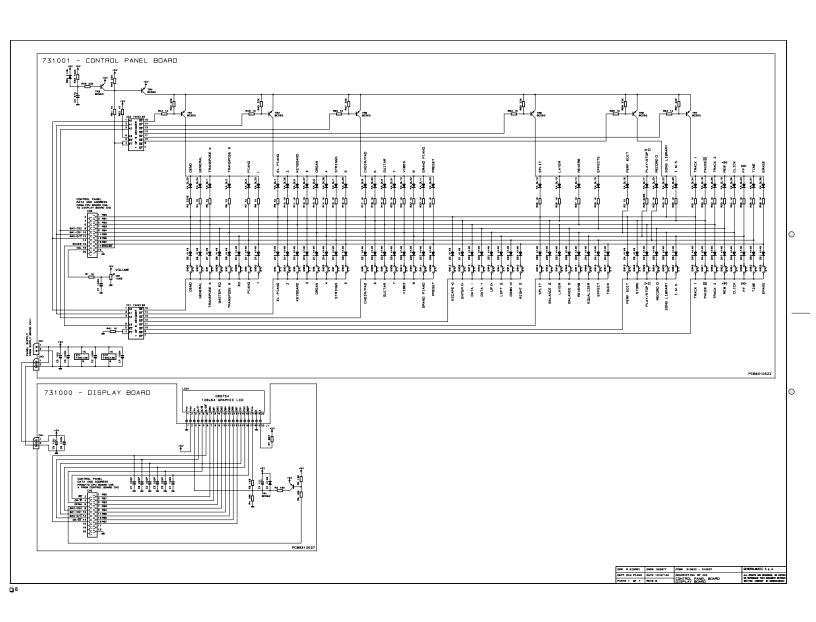
Turn off the instrument and disconnect the EPROM BOARD.

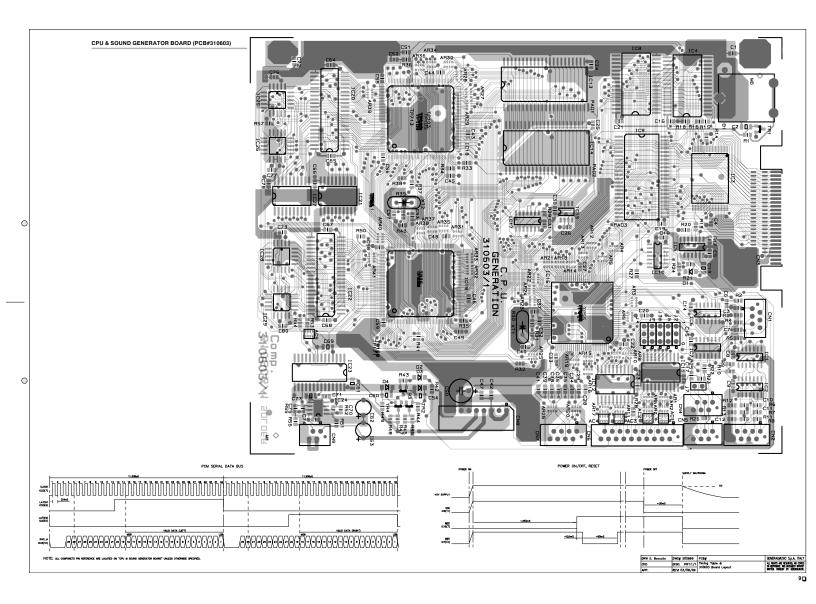
	rev. 19-07-00 RP series FAO					
	Questions	Answers				
1	What do the pedals make?	Soft (left pedal): This pedal is a switch control pedal (on/off) and affects the timbre of the instrument such that it plays softer, allowing you to continue using the same playing style at a lower volume. Sostenuto only for some models (centre pedal): This pedal is a switch control pedal (on/off) which sustains the notes of the key currently depressed, all new notes played after having depressed the pedal are not affected, this pedal operates like a grand piano centre pedal. Damper (right pedal): This pedal applies the sustain effect to all notes released. If you release a not after depressing the damper, the note will proceed towards its natural decay according to the type of sound played. The Damper pedal is particularly effective with Plano type sounds, it is controlled by a "Damper Physical Model" patented by Generalmusic.				
2	Why do the uppermost keys play always sustained?	For all piano sounds the notes from E6 to C8 are automatically sustained such as in an acoustic piano.				
3	Why do all pedals work in reverse mode?	The instrument reads the status of the pedals at the power on and assume this status (normally open or normally closed depends by the type of pedal) as the default status in the rest position. The pedals must be inserted before you switch on the instrument.				
4	Why do some pedal work in reverse mode?	For the same reason explained first you have not to press a pedal while the instrument is switched on and until it is ready to use.				
5	I have replaced the DAMPER pedal potentiometer, how do I let position it correctly?	Set the potentiometer to have about 700 ohm between pin 5 and 1 of DIN plug with the pedal at the rest position. Note: the Damper potentiometer have a special resistive stroke, when you replace it use the manufacturer's part only (code 070556).				
6	How can I do a complete SYSTEM RESET?	Turn on the instrument while pressing down the "General" button. Each time you do an autotest procedure a system reset is performed.				
7	Why does not the instrument respond correctly to the key pressed on keyboard after I have replaced the CPU Board?	If the CPU Board replaced is the right type check the jumper setting on it as described on this service manual and execute a complete Autotest.				
8	Why does not the instrument respond correctly to the button pressed on controls panel after I have replaced the CPU Board?	If the CPU Board replaced is the right type check the jumper setting on it as described on this service manual and execute a complete Autotest.				
9	Why does not the instrument respond correctly to the pedal pressed after I have replaced the CPU Board?	If the CPU Board replaced is the right type check the jumper setting on it as described on this service manual and execute a complete Autotest.				
10	Why does not the Instrument retain the user presets and data?	After a long period of inactivity may be occur that the internal battery backup have not a sufficient time for re-charging during the normal activity, try to leave the instrument switched on for about 12-14 hours. Afterwards if the instrument will lost the data again. replace the battery.				

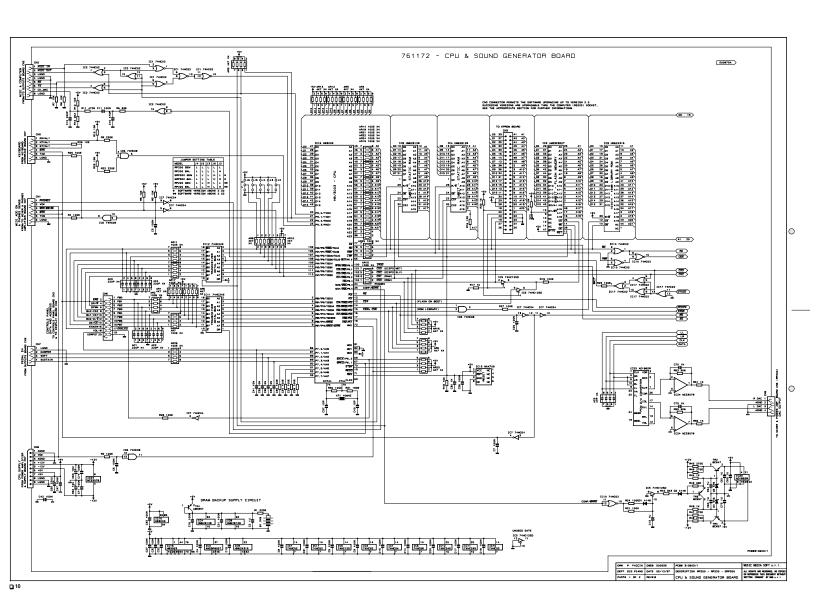


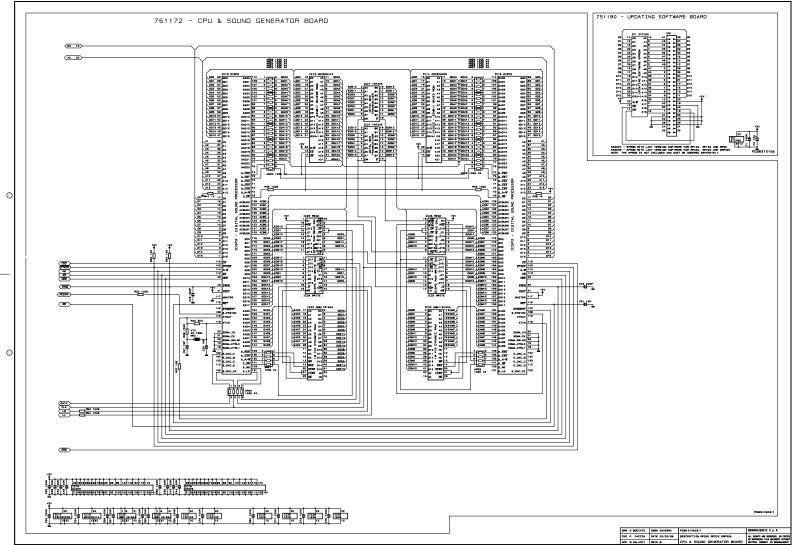












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Spare Part List	710640 Cover Assembly (M)	262190 * Cover Finishing (B)	230527 * BL02RN2-R62 EMI Coil For Signal
	710641 Cover Assembly (W)	262192 * Cover Finishing (M)	230524 * 100uH Switching Coil
Legend	340960 * Music Stop (R)(M)	262191 * Cover Finishing (W)	171660 * Right Support Board
EU = Specify European Version (230Vac)	653503 * Music Stop (B)	262039 * Rear Cover (R)	171659 * Left Support Board
US = Specify United States Version (115Vac)	653504 * Music Stop (W)	262187 * Rear Cover (B)	171658 * Heatsink
R = Rosewood Finish	262299 * Cover (R)	262189 * Rear Cover (M)	170716 * TO220 38mm height Heatsink
B = Gloss Black Finish	262300 * Cover (B)	262188 * Rear Cover (W)	141101 * 4 Contacts Vert Male Connector 141010 * 4 Contacts Vert Female Connector
M = Mahogany Finish	262301 * Cover (M)	262038 * Front Cover (R)	
W = Gloss White Finish	262302 * Cover (W)	262184 * Front Cover (B)	140929 * 9 Contacts Vert Male Connector
Gem = Gem Version Baldwin = Baldwin Version	262271 * Fillet 262037 * Front Cover Bar (R)	262186 * Front Cover (M) 262185 * Front Cover (W)	140917 * 2 Contacts Vert Male Connector 140908 * 6 Contacts Vert Male Small Connector
Code Description			140908 * 6 Contacts Vert Male Small Connector 140010 * 3 Contacts P=10 Vert Terminal Block
Code Description	262181 * Front Cover Bar (B) 262183 * Front Cover Bar (M)	210017 * 2x10mm Adhesive Black Felt (specify mt) 171774 * Hinge between Covers	140010 * 3 Contacts P=10 Vert Terminal Block 120857 * Vertical Male Faston 6.3mm
Optional Accessories	262182 * Front Cover Bar (W)	1717/4 * Hinge between Covers 171628 * Angular Guide	12057 * Versical Male Pasion 6.3mm 120581 * M3 Black Self-Locking Nut
130301 2mt Midi Cable	120463 * 4.3x12.5x1 Black Washer	120684 * M4x10 Sleeve	120521 * 3mm Black Spring Washer
970296 Pianist's Bench (R)	120463 * 4.3x12.5x1 Black Washer 120322 * WI 4x15tc Black Screw	120084 * WL4x25H Black Screw	120521 - 3mm Black Spring Washer 120255 * B2 9x6 5tc Screw
970297 Planist's Bench (B)	120322 * WL4x15tc Black Screw 120288 * WL3x20tc Black Screw	120336 * WE4X25II Black Screw 120034 * M4X12tc Black Screw	120205 * B2.9X6.5tC Screw 120003 * M3x8tc Black Screw
970319 Pianist's Bench (M)	710634 Cabinet Assembly (R)	262033 Rear Stand Panel	110119 * Fuse Clip 10A max (EU) (US)
970298 Pianist's Bench (W)	710634 Cabinet Assembly (R) 710635 Cabinet Assembly (B)	120523 Freal Statio Patier 120523 6mm Black Spring Washer	100965 * TDA7294 70W Audio Amplifier with Mute
570256 Fidilist's Delicii (W)	710635 Cabinet Assembly (b) 710636 Cabinet Assembly (M)	120489 14x6.4x2 Black Nylon Washer	100900 * L4960 5-40V 2.5A Switching Regulator
Accessories	710637 Cabinet Assembly (W)	120405 14x0.4x2 black Nyloli Washer	100905 * 7812 +12V 1A Voltage Regulator
271310 Owner's Manual (Italian-English-French-German) (Gem)	770903 * Speakers Cables Assembly	120406 6.5X12.5X1.5 Black Washer 120412 WL4x35tt Burnished Screw	100043 * 7912 -12V 1A Voltage Regulator
271310 Owner's Manual (Italian English-French-Spanish) (Baldwin)	660609 * Speaker Jack Socket Support	120090 M6x30tc Black Screw	090183 * BC550C TO92 LN Npn Transistor
130274 Mains Cable (EU)	660405 * 50x240mm Heatsink Grid	120060 Mexaute Black Screw	080605 * KBL02 4A 200V Rectifier Diode Bridge
130274 Mains Cable (EU) 130276 Mains Cable (US)	660405 * 50x240mm Heatsink Grid 510302 * Wooden Parts (R)	120073 M6x50te Black Screw 120070 M6x20tc Black Screw	080605 * KBL02 4A 200V Rectifier Diode Bridge 080171 * FE6B 6A 100V Fast Recovery Diode
	510302 * Wooden Parts (H) 510303 * Wooden Parts (B)	120070 M6x20tc Black Screw 653491 Left Cheek Block for Keyboard (R)(M)	080171 * FE65 6A 100V Fast Recovery Diode
Consolette	510303 * Wooden Parts (B) 510304 * Wooden Parts (M)	653491 Left Cheek Block for Keyboard (H)(M) 653456 Left Cheek Block for Keyboard (B)	080156 * 1N4002 1A 100V Hectifier Diode 080103 * 1N4148 100mA 75V Signal Diode
830756 Stand & Pedals Assembly (R)		653456 Left Cheek Block for Keyboard (B) 653493 Left Cheek Block for Keyboard (W)	080103 * 1N4148 100mA 75V Signal Diode 052060 * 100K 1/8w 5% Resistor
830756 Stand & Pedals Assembly (R) 830763 Stand & Pedals Assembly (B)	510305 * Wooden Parts (W) 262294 ** Rear Panel (R)	653493 Left Cheek Block for Keyboard (W) 653490 Right Cheek Block for Keyboard (R)(M)	052060 * 100K 1/8w 5% Resistor 052054 * 33K 1/8w 5% Resistor
830763 Stand & Pedals Assembly (B) 830765 Stand & Pedals Assembly (M)	262294 ** Rear Panel (R) 262295 ** Rear Panel (R)	653455 Right Cheek Block for Keyboard (H)(M)	052054 * 33K 1/8w 5% Hesistor 052052 * 22K 1/8w 5% Resistor
830765 Stand & Pedals Assembly (M) 830764 Stand & Pedals Assembly (W)	262295 ** Rear Panel (B) 262296 ** Rear Panel (M)	653455 Right Cheek Block for Keyboard (B) 653462 Right Cheek Block for Keyboard (W)	052052 * 22K 1/8w 5% Resistor 052050 * 15K 1/8w 5% Resistor
830764 Stand & Pedals Assembly (W) 720616 * Crossbar with Pedals (B) (M) (R)	262296 ** Rear Panel (M) 262297 ** Rear Panel (W)	653462 Right Cheek Block for Keyboard (W) 340933 5x5.9x12 Insulated Bush	052050 * 15K 1/8w 5% Resistor 052048 * 10K 1/8w 5% Resistor
720616 * Crossbar with Pedals (B) (M) (R) 720626 * Crossbar with Pedals (W)	262297 ** Rear Panel (W) 262042 ** Keyboard Cover Guide	340933 5x5.9x12 Insulated Bush 340916 Button for Power Switch	052048 * 10K 1/8w 5% Resistor 052040 * 2K2 1/8w 5% Resistor
	262042 ** Keyboard Cover Guide 262024 ** Left Side (R)	340916 Button for Power Switch 340329 Rubber Bush for Cable	052040 * 2K2 1/8w 5% Resistor 052036 * 1K 1/8w 5% Resistor
720613 ** Triple Pedal Assembly (replace entirely) 660655 ** Crossbar (B) (M) (R)	262024 ** Left Side (H) 262163 ** Left Side (B)	340329 Hubber Bush for Cable 340075 PC-Board Spacer	052036 * 1K 1/8w 5% Hesistor 052024 * 100E 1/8w 5% Resistor
660667 ** Crossbar (W)	262165 ** Left Side (M)	210016 1x10mm Adhesive Black Felt (specify mt)	050131 * 10E 1/4W 5% Resistor
210018 ** 1x5mm Adhesive Red Felt (specify mt) 710573 * Speakers Box	262164 ** Left Side (W)	180779 210x62mm "Gem" Adhesive	030950 * 470u 16V 20% Low Esr Vert Electrolytic Capacitor 030929 * 4u7 35V 20% Electrolytic Tantalium Capacitor
	262023 ** Right Side (R)	180675 40.5x12 "Gem" Adhesive Plate	
770883 ** Speakers Box Cables Assembly	262160 ** Right Side (B)	180674 20x24mm "GM" Logo Adhesive Plate	
130270 *** Speakers Cable with Jack Plug 340928 ** Plastic Speaker Box	262162 ** Right Side (M) 262161 ** Right Side (W)	180785 13X71MM "Pianovelle" Adhesive	
		180781 75x17mm "Pianovelle" Adhesive	030555 * 4700u 50V 20% Snap-In Electrolytic Capacitor
262083 ** 150x391mm Wood Panel	261799 ** Keyboard Cross-Bar (R)	180780 210x62mm "Baldwin Pianovelle" Adhesive	030486 * 100u 50V 20% Vert Electrolytic Capacitor
262082 ** 150x800mm Wood Panel	261836 ** Keyboard Cross-Bar (B)	180676 82x13.3mm "Baldwin" Logo Adhesive Plate	
	261957 ** Keyboard Cross-Bar (M)	171758 Left Arm for Keyboard Cover	030403 * 47u 25V 20% Vert Electrolytic Capacitor
262035 ** Front Panel	261852 ** Keyboard Cross-Bar (W)	171757 Right Arm for Keyboard Cover	030324 * 22u 50V 20% Vert Electrolytic Capacitor
261866 ** 20x20x200mm Deal Fillet	210054 * 1x5mm Adhesive Spik (specify mt)	171738 Mains Switch Support	030245 * 10u 50V 20% Vert Electrolytic Capacitor
220120 ** 6" 80hm Full-range Speaker	171756 * Angular Fixing	120968 Bush for Keyboard Cover	
220118 ** 8' 8ohm Woofer Speaker	171606 * Angular Reinforcement	120581 M3 Black Self-Locking Nut	030005 * 1u 50V 20% Vert Electrolytic Capacitor
210242 ** Filler for Speaker Box (Specify m²)	171605 * Keyboard Crossbar Support	120522 4mm Black Spring Washer	021028 * 220n 63V 10% MKT Polyester Capacitor
210217 ** Black Sealer (specify mt)	171331 * Left Cover Clamp	120489 14x6.4x2 Black Nylon Washer	021024 * 100n 63V 10% MKT Polyester Capacitor
210215 ** Adhesive Rubber Foam 10x1.9mm (Specify mt)	171330 * Right Cover Clamp	120463 4.3x12.5x1 Black Washer	021018 * 33n 63V 10% MKT Polyester Capacitor
210054 ** 1x5mm Adhesive Spik (specify mt)	120684 * M4x10 Sleeve	120412 WL4x35tt Burnished Screw	021004 * 2n2 63V 10% MKT Polyester Capacitor
120684 ** M4x10 Sleeve	120681 * MA6x13 Sleeve	120405 B3.5x9.5tc Black Screw	010595 * 100n 50V -20+80% Ceramic Cap. Multilayer 010462 * 1n 50V 10% CL2 Ceramic Capacitor
120413 ** WL3.5x30tt Black Screw	120374 * WL4x15tt Black Screw	120341 WL4x20tt Black Screw	
120374 ** WL4x15tt Black Screw	120341 * WL4x20tt Black Screw	120340 WL4x12tt Black Screw	010402 * 330p 50V 10% CL2 Ceramic Capacitor
120063 ** M4x20tc Black Screw	120340 * WL4x12tt Black Screw	120293 WL3x25ts Brassed Screw	Crossover & Tweeter Assembly
660407 * Support for Rear Panel	120312 * WL4x10tt Black Screw	120289 WL3x10ts Black Screw	,
262031 * Foot (R)	710643 Music Stand Assembly (R) (Gem)	120117 M4x8tc Black Screw	731029 Crossover Board (Pcb#310651)
262178 * Foot (B)	710645 Music Stand Assembly (B) (Gem)	120094 M3x30tsp Black Screw	230587 * 3.5mH 0.56mm Crossover Core Coil
262180 * Foot (M)	710647 Music Stand Assembly (M)(Gem)	120063 M4x20tc Black Screw	230533 * 0.45mH 1mm Crossover Coil
262179 * Foot (W)	710642 Music Stand Assembly (R)(Baldwin)	120059 M4x25tc Black Screw	
262030 * Left Leg (R)	710644 Music Stand Assembly (B)(Baldwin)	120028 M3x8tc Black Screw	120581 * M3 Black Self-Locking Nut
262175 * Left Leg (B)	710646 Music Stand Assembly (M)(Baldwin)	120025 M3x10tsp Black Screw	120013 * M3x25tc Black Screw
262177 * Left Leg (M)	710648 Music Stand Assembly (W)(Baldwin)	Mains & Transformer Assembly	030348 * 47u 100V 20% Axial Electrolytic Bipolar Capacitor
262176 * Left Leg (W)	660406 * Stop Pinch Bar for Music Stand	110614 Mains Socket	030171 * 4u7 63V 20% Axial Electrolytic Bipolar Capacitor
262029 * Right Leg (R)			229015 1" 8ohm Dome Tweeter Speaker
262172 * Right Leg (B)	262051 * Music Stand (R)	770904 Mains Cables Assembly 110320 * Power Switch	171780 Tweeter Support
262174 * Right Leg (M)	262220 * Music Stand (B)		Keyboard Assembly
262173 * Right Leg (W)	262222 * Music Stand (M)	768198 Mains Filter Board (Pcb#310643)	
171702 * Right Cabinet Support	262221 * Music Stand (W)	230565 * 2.5mH 250V 3A AC Line Filter	720568 Keyboard Assembly (TP10MDS)
	171361 * Music Stand Hinge	140010 * 3 Contacts P=10 Vert Terminal Block	840762 * 20 Wires 25cm Length Flat Cable
171505 * Angular Fixing	120289 * WL3x10ts Black Screw	020493 * 100n 250Vac MKP EMI Capacitor "Siemens"	840761 * 20 Wires 12.5cm Length Flat Cable
170585 * Metal Foot	120272 * WL3x10tc Black Screw	010545 * 4n7 250V Ceramic Capacitor (Iec-UI-Csa)	761173 * Keyboard Interface Board (Pcb#315024)
129073 * WL4.5x50ts Screw	710575 Keyboard Cover (R)	230130 Transformer 230Vac 220W (EU)	141018 ** 20 Contacts Vert Female Connector
120681 * MA6x13 Sleeve	710595 Keyboard Cover (B)	230131 Transformer 115Vac 220W (US)	141011 ** 6 Contacts Vert Female Connector
120523 * 6mm Black Spring Washer	710597 Keyboard Cover (M)	Power Amplifier & Supply Board	140918 ** 2 Contacts Hor Male Connector
120489 * 14x6.4x2 Black Nylon Washer	710596 Keyboard Cover (W)		100740 ** HD6433278 Cpu F=20MHz
120341 * WL4x20tt Black Screw	324405 * Hinge between Front and Top Keyb. Covers	110020 T5A Fuse 5x20mm (EU)	100605 ** 74HC125 Quad 3-State Buffer
120128 * M6x35tc Black Screw	323069 * 11.1X5mm Bumpon Rubber	110010 T2A Fuse 5x20mm (EU)	050493 ** 10Kx4 1/8w 5% Resistor Array
120119 * M4x16tc Black Screw	320400 * WL2.6x9.5tsp Brass Screw	110083 T2A Fuse 6.3x32mm (US)	050492 ** 10Kx8 1/8w 5% Resistor Array
120070 * M6x20tc Black Screw	262041 * Revolving Cross Bar (R)	110021 T5A Fuse 6.3x32mm (US)	050414 ** 2K2x4 1/8w 5% Resistor Array
	262193 * Revolving Cross Bar (B)	731004 Power Amplifier & Supply Board (Pcb#310604)	010725 ** 20MHz Ceramic Resonator With Capacitors
Cobinet			
Cabinet	262195 * Revolving Cross Bar (M)	340154 * TO3/TO218 Mica Washer	010862 ** 220p 10% 50V X8 Cap Array
Cabinet 710638 Cover Assembly (R) 710639 Cover Assembly (B)	262195 * Revolving Cross Bar (M) 262194 * Revolving Cross Bar (W) 262040 * Cover Finishing (R)	340154 * TO3/TO218 Mica Washer 340079 * TO220 Mica Washer 340078 * TO220 Insulated Bush	010662 ** 20p 10% 50V X8 Cap Array 010661 ** 47 10% 50V X8 Cap Array 720559 * Keyboard Assembly (TP10MDS)

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