# Service Manual

**MODEL: JCA22H** 



Version1.0 Revised on Dec 2011

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#### 1. INTRODUCTION

#### Introduction

JCA22H is a guitar power amplifier designed for guitarists rehearsals and concert.

#### Rear panel:

AC input adopting wide voltage design controls via voltage switch; speaker enclosure interface features 4 ohms, 8 ohms and 16 ohms at outputs for connecting different loads;

#### Front panel:

1 MIC IN(mono)with EQ(bass, middle and treble controls) for guitar signal

External effects: control the switchable channels via the footswitch input

Power SW;

JCA22H also equipped clean, overdrive channels and the footswitch

#### **Specification**

Power output: 20W/8 Ohms

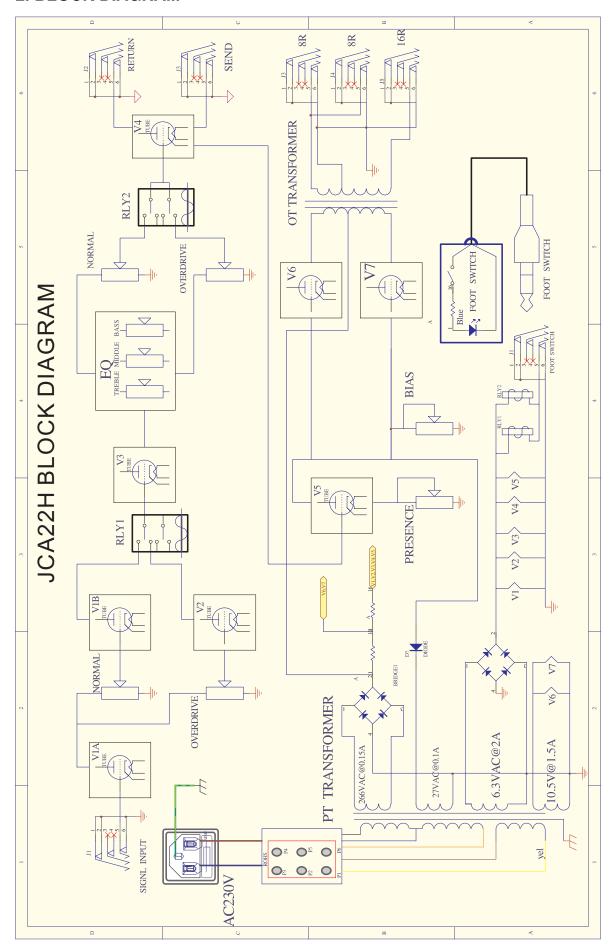
Distortion: 32%

Input sensitivity: -45dBV

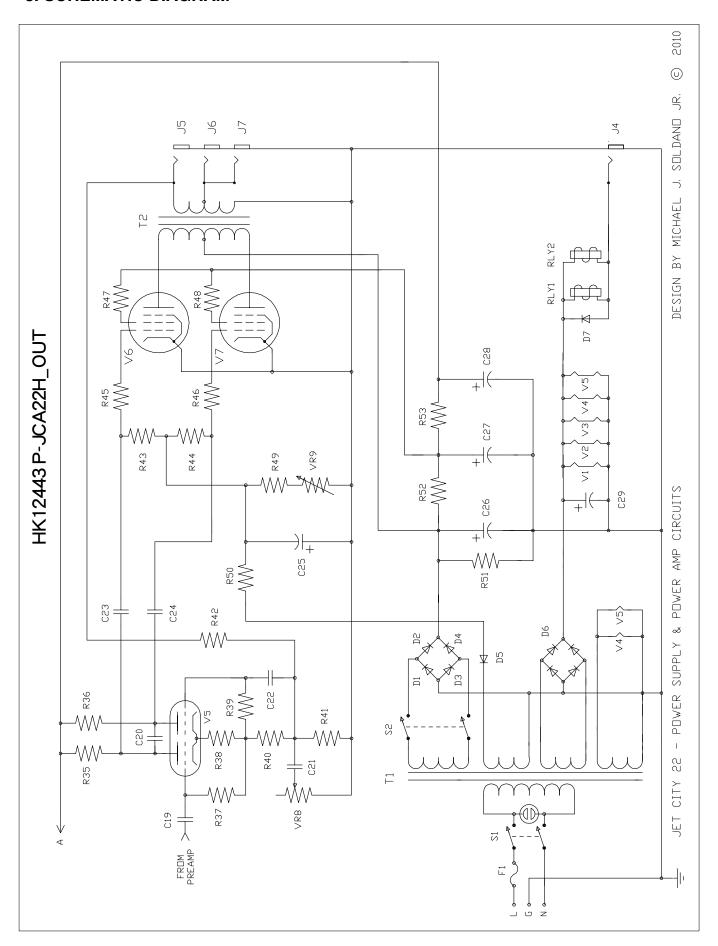
Frequency response: 50Hz~ 5KHz

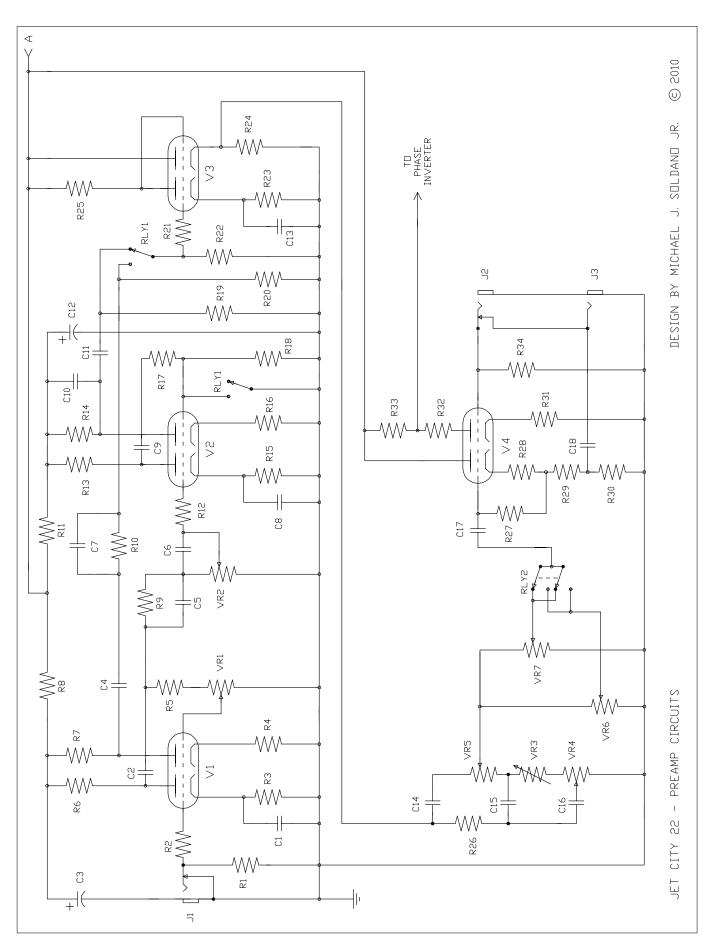
SNR: -61DB

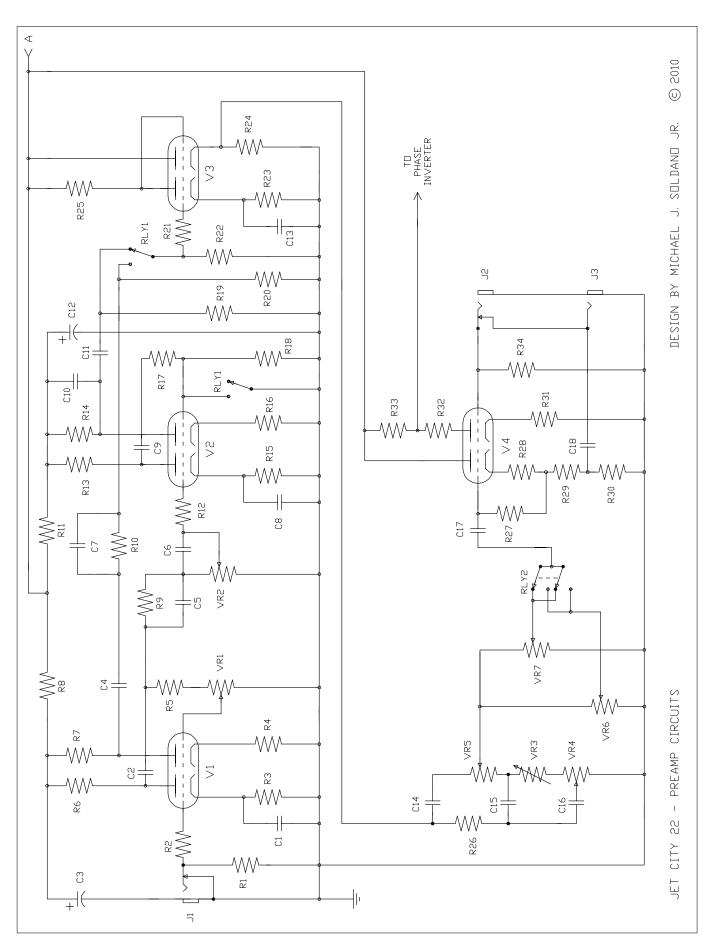
#### 2. BLOCK DIAGRAM



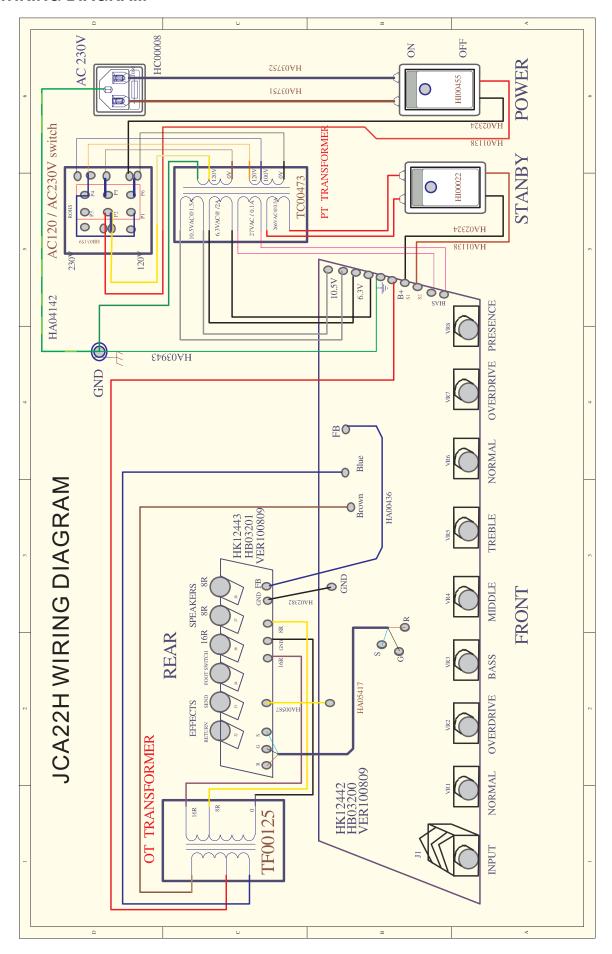
#### 3. SCHEMATIC DIAGRAM

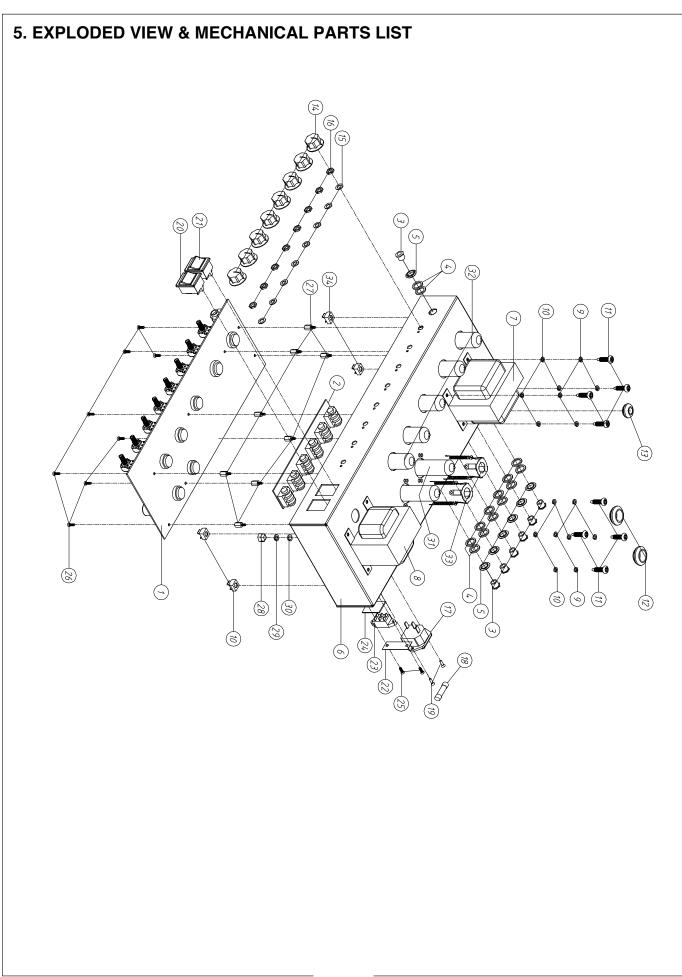


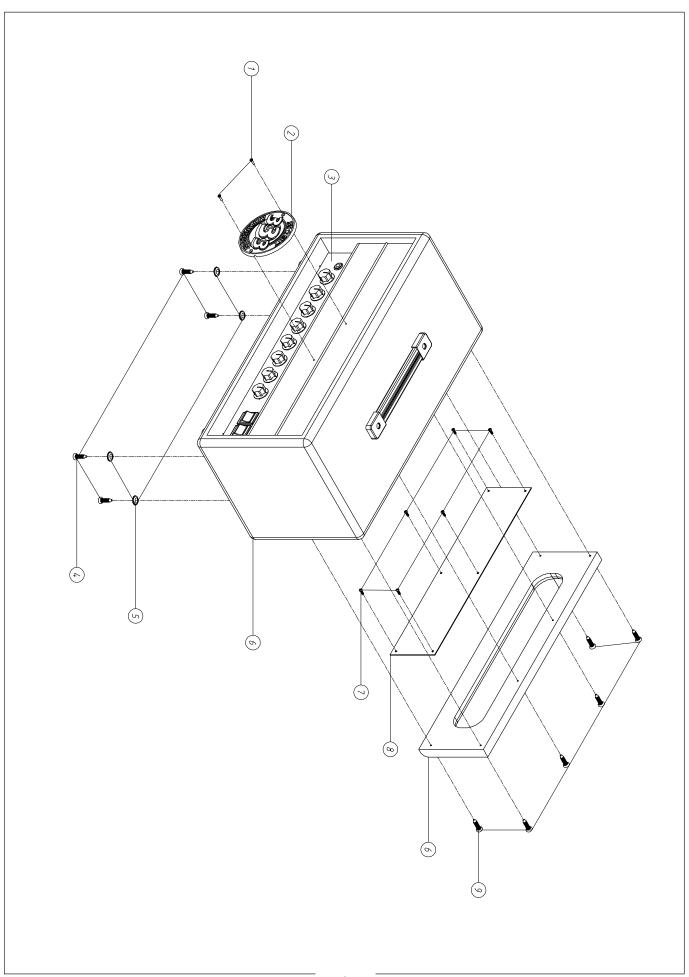




#### 4. WIRING DIAGRAM







S/N	Part No	Description	Specification	Qty
1	HK12442	K-PCB	P-JCA22H_MAIN-DIP	1
2	HK12443	K-PCB	P-JCA22H_OUT-DIP	1
3	ME00304	T-nut-RS	9.3*f 6.42*f 9.35 T-0664-N	7
4	NC00424	T-wood washer-RS-ACT	1.6*f 11.3*f 15.4 T0661-WA11.1-R 紅	14
5	NI03489	T-plastic washer-RS-ACT	2.6*f 15.7*f 9.8 T-664-D01	7
6	MA08801	ZC-front panel-RS	JCA22H JET CITY_V1.0	1
7	TF00125	output transformer-RS	OT-JC20	1
8	TC00473	constant voltage transformer-RS	PT-JC22_100/120/240V_50/60Hz	1
9	MF00039	spring washer-RS	φ5*φ8*1.2T_V 1.2	8
10	MG00477	T-nut-RS	6mm	4
11	MG00599	white screw-RS	M5*9.6*0.8PH_V1.0	8
12	NI04105	rubber plug-RS	GA-20 f 16*f 27*10	2
13	NI00171	rubber plug-RS	9*f 20*10mm	1
14	NI05689	plastic knob-RS-CT-ABS	25.4*15	8
15	MF00189	washer-RS	12*f 7.2*0.4	8
16	ME00303	nut-RS	10*f 7*2.5	8
17	HC00008	AC inlet-RS	3515 A TYPE(RF-2004-C-4.8)	1
18	HD00013	glass tube fuse-RS	3.15A 250V φ5.2*20mm CSA/S/UL/VDE	2
19	MG00042	black screw-RS	M3*10	2
20	HI00455	power supply SW-RS	4P 16A R595KFIT2FA	1
21	HI00022	power supply SW-RS	4PR13-69A	1
22	NI03205	protection cover-RS	0.5*44*15_V1.0	1
23	HI00345	sliding SW-RS	L21-22A2 10A/250V	1
24	HB03159	PCB-RS	JCA-SW(4*5)_VER100225	1
25	MG00566	black screw-RS	M3*10*0.5PH_V1.0	2
26	MG00269	nickel screw-RS	M3*6	8
27	MG00846	copper pillar-RS	M3*10*0.5PH	8
28	ME00016	multicolored nut-RS	4mm	1
29	MF00038	spring washer-RS	f 4*f 7*1t	2
30	MF00048	star washer-RS	f 4*f 8*0.5t	1
31	HD00137	vacuum tube-RS	EL84	2
32	HD00063	vacuum tube-RS-ACT	12AX7WA	5
33	MH01859	separating hood-RS-ACT	TUBE RETAINER2-1(BELTON)	2

# 6. BOM EUROPE

Rank	Part No	Description	Specification	Insert Location
PI02475		AMPLIFIER	JCA22H_JET CITY_230V_CHINA	
<b>⊢</b> 0001	MG00063	screw	M3*12	
<b>⊢0002</b>	MG00489	screw	M3*20	
<b>⊢</b> 0003	MG00511	screw-RS	M4*37_V1.1	
<b>⊢0004</b>	HA00861	power cord Europe 3P	LT-312+LT-501	
⊢0005	MG00670	SCREW-RS	M6*40	
<b>⊢0006</b>	MF00155	washer-RS	φ18*φ6.5*0.8t	
<b>⊢</b> 0007	NE12597	lable	ASHDOWN 230V_V1.0	
⊢0008	NA00875	PE bag-RS	0.05t*820*540mm_V1.0	
⊢0009	NA00858	PE bag-RS	0.04t*240*160mm_V1.0	
<b>⊢</b> 0010	NI05676	label-RS-CT-ABS	JC-20 6.35*φ104.43_V1.0	
<del>-</del> 0011	MD01431	iron net-RS	93*389 PH=25*12_V1.1	
<b>⊢</b> 0012	NE19827	label-RS	JET CITY SERIES_V1.0	
⊢0013	NA01048	silk wadding-RS-CT	JCA100H_V1.0	
⊢0014	HK12252	faceplate	FOOTSWITCH_JET CITY_JCA50H	
-0001	RA00805	fixed resistor 1/4W	68ΚΩ	
• •	SA00379		φ3 blue(TY-30BL5TM70-250)	
• •		bushing	5P-4	
• •		lamp cover	LC3-1 ψ3 LED	
1 1	MG00025	•	M3*6	
• •		foot-switch-RS-C	01-690C	
• •	HC00038		φ6.3(metal)	
-		MIC wire-RS	φ6*1C*20/0.12+30/0.12*15FT	
•	ND00619		2.0t*70*105 black_V1.0	
• •		PE bag-RS	0.04t*280*220mm_V1.0	
		inner case-RS-CT	JCA100H_V1.0	
• •	MA08125		JCA-100H JET CIYT _V1.2	
• •	MB04441	•	ABM SINGLE 1.6t*45*110*83.5_V1.3	
0013  -0015	NC03051		JCA20H 23#_V1.2	
	HK13066		JCA22H_JET CITY_230V	
		plastic washer	2.6*\(\phi\)15.7*\(\phi\)9.8 T-664-D01	
• •		sleeve	φ4*20mm	
1 1 ****		sleeve	φ6*18mm	
• •		rubber stopper	φ9*φ20*10mm black_V1.0	
	NI00218	**	ALT-102SB	
		protective cover	0.5*44*15_V1.0	
• •	NC00424	•	1.6*\text{\tint{\text{\tinit}\\ \text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texit{\tex{\text{\text{\text{\text{\text{\text{\texi}\text{\texit{\ti	
• '	MF00039		φ5*φ8*1.2T_V 1.2	
1 1			· · –	
•		washer-RS	φ4*φ7*1t	
•		washer-RS	φ4*φ8*0.5t	
	ME00016		4m/m	
	MG00566	separating shade	TUBE RETAINER2-1(BELTON)	
1 1			M3*10*0.5PH_V1.0	
	MG00477		6mm	
	MG00269		M3*6	
-		power switch-RS	4p black frame red key	
-0017		glass tube fuse	1.6A 250V φ5.2*20mm CSA/S/UL/VDE	
		vacuum tube	12AX7WA	
		AC socket	3515 A TYPE(RF-2004-C-4.8)	
		signle terminal wiring CF:W08	170 red	
	HA00587		70mm yellow L5R5	
	HA00436		150mm blue L5R5	
-0023		signle terminal wiring	120mm UL1015 18AWG	
	HA03752	wire-RS	200mm UL1015 18AWG blue	
⊢0025	HA03751		200mm UL1015 18AWG plam 160mm UL1015 18AWG black	

Rank	Part No	Description	Specification	Insert Location
⊢0027	HA02382	wire-RS	55mm black L5R5	
⊢0028	HA04142	wire	100mm UL1015 18AWG green roll yellow	
-0029	NI04105	hole stopper	GA-20 φ16*φ27*10 black	
-0030	MG00042	screw	M3*10	
-0031	HD00137	vacuum tube-RS	EL84	
-0032	MG00846	iron pillar-RS	M3*10*0.5PH 15mm_V1.0	
-0033	MF00189	washer-RS	φ12*φ7.2*0.4	
-0034	ME00303	copper nut-RS	φ10*φ7*2.5	
⊢0035	ME00304	copper nut-RS	9.3*φ6.42*φ9.35 T-0664-N	
⊢0036	NI05689	knob-RS-CT	φ25.4*15_V1.0	
-0037	TF00125	Output Transformer-RS	OT-JC20	
⊢0038	HA05417	wire-RS	300mm grey LG5RG5	
⊢0039	HK13508	PC board-RS	P-JCA-SW	
-0001	HB03159	PCB-RS	JCA-SW(1*5)_VER110809	
-0002	HI00345	slide switch-RS	L21-22A2 10A/250V	SW1
_0003	AC00603	lead free soldering bar	S100	
⊢0040	HI00455	power switch-RS	4P 16A R595KFIT2FA	
⊢0041	HK12443	PC board-RS	P-JCA22H_OUT-DIP	
-0001	AC00603	lead free soldering bar	S100	
-0002	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J2,J3,J4,J5,J6,J7
_0003	HB03201	PCB-RS	JCA22H_OUT(1*5)_VER100809	
⊢0042	HK12442	PC board-RS	P-JCA22H_MAIN-DIP	
-0001	RA01606	precise metal-oxide-film resistor-RS 1W	470Ω	R38
-0002	RA00808	metal-oxide-film resistor 1W	1.8ΚΩ	R3,R15,R23
-0003	RA01596	precise metal-oxide-film resistor-RS 1W	100 ΚΩ	R7,R13,R14,R24,R25,R36
-0004	RA01601	precise metal-oxide-film resistor-RS 1W	10ΚΩ	R33,R40,R49,R50
-0005	RA01884	precise metal-oxide-film resistor-RS 2W	10.0kΩ±1%	R53
	RA01605	precise metal-oxide-film resistor-RS 1W	15ΚΩ	R8,R11,R54,R29
-0007	RA00062	metal-oxide-film resistor 3W	1.0KΩ RSS P type	R52
-0008	RA01593	precise metal-oxide-film resistor-RS 1W	1ΜΩ	R1,R5,R9,R10,R18,R27,R37,R39
-0009	RA01595	precise metal-oxide-film resistor-RS 1W	2.2ΚΩ	R4,R28,R31,R45,R46
-0010	RA01886	precise metal-oxide-film resistor-RS 1W	2.2MΩ±1%	R19,R20
1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W	220ΚΩ	R6,R21,R43,R44
<u> </u>		metal-oxide-film resistor-RS 3W	220KΩ P type	R51
		precise metal-oxide-film resistor-RS 1W	330kΩ±1%	R22
		precise metal-oxide-film resistor-RS 1W	39ΚΩ	R16
		precise metal-oxide-film resistor-RS 1W	4.7ΚΩ	R30,R41
		precise metal-oxide-film resistor-RS 2W	470.0Ω±1%	R47,R48
		precise metal-oxide-film resistor-RS 1W	470ΚΩ	R12,R17,R34
		precise metal-oxide-film resistor-RS 1W	47ΚΩ	R26,R42
		precise metal-oxide-film resistor-RS 1W	68kΩ±1%	R2,R32
		precise metal-oxide-film resistor-RS 1W	82ΚΩ	R35
-0021	CA00117	ceramic capacitor-RS	0.001uF/500V Y5P	C5,C10
-0022	CF00212	metal-oxide-film capacitor-RS	0.022uF/400V 10%	C2,C4,C19,C23,C9,C11,C15,C16,C17,C 24
-0023	CF00033	metal-film capacitor MEF	0.1uF/250V 10%	C21,C22
-0024	CB00366	electrolytic capacitor-RS	10uF/450V φ13*21mm	C3,C12,C30
-0025	CF00046	metal-film capacitor MEF	1.0uF/250V 10%	C1,C8,C13,C18
-0026	CB00326	electrolytic capacitor-RS	22000uF/25V ψ30*35mm	C29
-0027	CB00415	electrolytic capacitor-RS	22uF/450V 105°C φ16*25mm	C27,C28
-0028	CB00327	electrolytic capacitor-RS	22uF/100V φ8*12mm	C25
-0029	CA00137	ceramic capacitor-RS	270PF/500V Y5P	C20
-0030	CA00134	ceramic capacitor-RS	470PF/1000V Y5P	C6,C7,C14
-0031	CB00416	electrolytic capacitor-RS	47uF/450V 105℃ φ18*25mm	C26
-0032	RC00381	potentiometer	A1MΩ RV16A-20-15K-A1M-3	VR1,VR2,VR3,VR6,VR7

Rank	Part No	Description	Specification	Insert Location
-0033	RC00502	potentiometer	B25KΩ RV16A-20-15K-B25K-3	VR4,VR8
-0034	RC00501	potentiometer	B250KΩ RV16A-20-15K-B250K-3	VR5
-0035	RC00591	precise metal-oxide-film resistor-RS	B50K T1502N-AI-B503-0H03	VR9
-0036	SA00159	rectifier diode	1A/1000V IN4007	D1,D2,D3,D4,D5,D7
-0037	SA00005	bridge rectifier	4A/400V RS405	D6
-0038	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J1
-0039	HC00890	vacuum tube holder-RS	9PIN PCB (GZC9-B)	V1,V2,V3,V4,V5,V6,V7
-0040	RA00157	fixed resistor 1/4W	0Ω	JPO1
-0041	HI00008	relay	RY-12W-K 12V	RLY1,RLY2
-0042	AC00603	lead free soldering bar	S100	
_0043	HB03200	PCB-RS	JCA22H_MAIN_VER100809	
-0043	MA08801	panel-RS	JCA22H JET CITY_V1.0	
-0044	TC00473	transformer-RS	PT-JCA22H_100/120/240V_50/60Hz	
⊢0045	MH01857	separating shade	TUBE SHIELD-1(BELTON)	
└0046	MG00909	screw-RS	M5*12*0.8PH	
<b>⊢</b> 0017	NF03556	user manual-RS	JCA22H JET CITY_V1.0	
<b>⊢</b> 0018	NE21047	label-RS	JCA22H_V1.1	
<b>⊢</b> 0019	NE21046	label-RS	JCA22H_V1.0	
<b>⊢0020</b>	NB06922	carton-RS-CT	JCA22H JET CITY_V1.0	
<b>⊢</b> 0021	NA00270	sponge-RS	ASHDOWN 140*140*140mm_V1.0	
<b>└0022</b>	NA00706	silk wadding-RS	TPS218NEO-SUB_V1.0	

# USA

Rank	Part No	Description	Specification	Insert Location
PI02567		AMPLIFIER	JCA22H_JET CITY_120V_CHINA	
<b>⊢</b> 0001	MG00063	screw	M3*12	
<b>⊢</b> 0002	MG00489		M3*20	
<b>⊢</b> 0003		screw-RS	M4*37_V1.1	
<del>-</del> 0004		power cord(America 3P)	LT-202+18A*3C(SVT) 6FT+LT-501	
<del>-</del> 0005		SCREW-RS	M6*40	
⊢0006		washer-RS	φ18*φ6.5*0.8t	
<b>⊢</b> 0007		PE bag-RS	0.05t*820*540mm_V1.0	
<b>⊢0008</b>		PE bag-RS	0.04t*240*160mm_V1.0	
├0009		label-RS-CT-ABS	JC-20 6.35*φ104.43_V1.0	
├0010 ├0011		iron net-RS	93*389 PH=25*12_V1.1	
├0011 └0010	NE19827		JET CITY SERIES_V1.0	
├0012 └0012		silk wadding-RS-CT	JCA100H_V1.0	
├0013	HK12252		FOOTSWITCH_JET CITY_JCA50H	
-0001		fixed resistor 1/4W	68KΩ	
-0002		L.E.D-RS	φ3 blue(TY-30BL5TM70-250) 5P-4	
-0003		bushing		
		lamp cover screw-RS	LC3-1 ψ3 LED M3*6	
H0005		foot-switch-RS-C	01-690C	
<del> </del> -0006	HC00038		φ6.3(metal)	
H0007		MIC wire-RS	φ6*1C*20/0.12+30/0.12*15FT	
I ⊢0008	ND00619		2.0t*70*105 black_V1.0	
-0000     -0010		PE bag-RS	0.04t*280*220mm_V1.0	
-0010     -0011		inner case-RS-CT	JCA100H_V1.0	
-0012	MA08125		JCA-100H JET CIYT _V1.2	
-0013	MB04441	<u>'</u>	ABM SINGLE 1.6t*45*110*83.5_V1.3	
⊢0014	NC03051		JCA20H 23#_V1.2	
⊢0015	HK13065		JCA22H_JET CITY_120V	
-0001	NI03489	plastic washer		
-0002	NI00252	sleeve	φ4*20mm	
-0003	NI00267	sleeve	φ6*18mm	
⊢0004	NI00171	rubber stopper	φ9*φ20*10mm black_V1.0	
⊢0005	NI00218	cable tie	ALT-102SB	
⊢0006	NI03205	protective cover	0.5*44*15_V1.0	
⊢0007	NC00424	washer	1.6*φ11.3*φ15.4 T0661-WA11.1-R red	
⊢0008	MF00039	washer	φ5*φ8*1.2T_V 1.2	
⊢0009	MF00038	washer-RS	φ4*φ7*1t	
⊢0010		washer-RS	φ4*φ8*0.5t	
⊢0011	ME00016		4m/m	
-0012		separating shade	TUBE RETAINER2-1(BELTON)	
-0013	MG00566		M3*10*0.5PH_V1.0	
-0014	MG00477		6mm	
-0015		screw-RS	M3*6	
-0016		power switch-RS	4p black frame red key	
-0017		vacuum tube	12AX7WA	
-0018		AC socket	3515 A TYPE(RF-2004-C-4.8)	
-0019		signle terminal wiring CF:W08	170 red	
-0020	HA00587		70mm yellow L5R5	
-0021	HA00436		150mm blue L5R5 120mm UL1015 18AWG	
-0022		signle terminal wiring signle terminal wiring	160mm UL1015 18AWG black	
-0023   L-0024	HA02324 HA02382		55mm black L5R5	
	HA02382		100mm UL1015 18AWG green roll yellow	
H0025   H0026		hole stopper	GA-20 φ16*φ27*10 black	
H0026   H0027	MG00042		M3*10	
H0027   H0028		vacuum tube-RS	EL84	
		iron pillar-RS	M3*10*0.5PH 15mm V1.0	
1   0028	141000040	iron piliai-110	WIO TO 0.01 11 10111111_V 1.0	

Rank	Part No	Description	Specification	Insert Location
		PC board-RS	P-JCA22H MAIN-DIP	
-			470Ω	R38
		metal-oxide-film resistor 1W	1.8ΚΩ	R3,R15,R23
1 1 1 444-		precise metal-oxide-film resistor-RS 1W		R7,R13,R14,R24,R25,R36
1 1 1 1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W		R33,R40,R49,R50
1 1 1 1 1 1 1 1		!	10.0kΩ±1%	R53
		•	15ΚΩ	R8,R11,R54,R29
1 1 1 1 1 1 1 1 1 1		metal-oxide-film resistor 3W	1.0KΩ RSS P type	R52
1 1 1 222			1ΜΩ	R1,R5,R9,R10,R18,R27,R37,R39
1 1 1 1 1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W		R4,R28,R31,R45,R46
1 1 1 1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W		R19,R20
		precise metal-oxide-film resistor-RS 1W		R6,R21,R43,R44
		metal-oxide-film resistor-RS 3W	220KΩ P type	R51
		precise metal-oxide-film resistor-RS 1W	,	R22
		precise metal-oxide-film resistor-RS 1W		R16
		precise metal-oxide-film resistor-RS 1W		R30,R41
1 1 1 1 1 1		precise metal-oxide-film resistor-RS 2W		R47.R48
1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W		R12,R17,R34
1 1 1 ****		precise metal-oxide-film resistor-RS 1W		R26,R42
1 1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W		R2,R32
1 1 1 1 1 1 1		precise metal-oxide-film resistor-RS 1W		R35
1 1 1 1 1 1 1		ceramic capacitor-RS	0.001uF/500V Y5P	C5,C10
		metal-oxide-film capacitor-RS	0.022uF/400V 10%	C2,C4,C19,C23,C9,C11,C15,C16,C17,C24
		metal-film capacitor MEF	0.1uF/250V 10%	C21,C22
		'		·
		electrolytic capacitor-RS	10uF/450V φ13*21mm	C3,C12,C30
		metal-film capacitor MEF	1.0uF/250V 10%	C1,C8,C13,C18
		electrolytic capacitor-RS	22000uF/25V ψ30*35mm	C29
		electrolytic capacitor-RS	22uF/450V 105°C φ16*25mm	C27,C28
		electrolytic capacitor-RS	22uF/100V	C25
		ceramic capacitor-RS	270PF/500V Y5P	C20
		ceramic capacitor-RS	470PF/1000V Y5P	C6,C7,C14
		electrolytic capacitor-RS	47uF/450V 105°C φ18*25mm	C26
		potentiometer potentiometer	A1MΩ RV16A-20-15K-A1M-3	VR1,VR2,VR3,VR6,VR7
1 1 1 1 1 1 1 1 1		•	B25KΩ RV16A-20-15K-B25K-3	VR4,VR8
1 1 1 1 1 1 1 1		potentiometer	B250KΩ RV16A-20-15K-B250K-3	VR5
				VR9
		rectifier diode	1A/1000V IN4007	D1,D2,D3,D4,D5,D7
		bridge rectifier stereo MIC jack-RS	4A/400V RS405	D6
			φ6.4 S-6351-4P	J1
		vacuum tube holder-RS fixed resistor 1/4W	9PIN PCB (GZC9-B)	V1,V2,V3,V4,V5,V6,V7
			0Ω	JPO1 RLY1,RLY2
	HI00008	· ·	RY-12W-K 12V	RL11,RL12
		lead free soldering bar	S100	
<u> </u>	HB03200		JCA22H_MAIN_VER100809	
<u> </u>		washer-RS	φ12*φ7.2*0.4	
		copper nut-RS	φ10*φ7*2.5	
<del> </del>		copper nut-RS	9.3*φ6.42*φ9.35 T-0664-N	
		knob-RS-CT	φ25.4*15_V1.0	
<u> </u>		Output Transformer-RS	OT-JC20	
	HA05417		300mm grey LG5RG5	
		PC board-RS	P-JCA-SW	
	HB03159		JCA-SW(1*5)_VER110809	CIA/1
	П100345	slide switch-RS	L21-22A2 10A/250V	SW1

Rank	Part No	Description	Specification	Insert Location
-0003	AC00603	lead free soldering bar	S100	
⊢0038	HI00455	power switch-RS	4P 16A R595KFIT2FA	
-0039	HK12443	PC board-RS	P-JCA22H_OUT-DIP	
-0001	AC00603	lead free soldering bar	S100	
-0002	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J2,J3,J4,J5,J6,J7
-0003	HB03201	PCB-RS	JCA22H_OUT(1*5)_VER100809	
⊢0040	MA08801	panel-RS	JCA22H JET CITY_V1.0	
-0041	TC00473	transformer-RS	PT-JCA22H_100/120/240V_50/60Hz	
-0042	HD00013	glass tube fuse	3.15A 250V φ5*20mm CSA/S/UL/VDE	
-0043	MG00599	screw	M5*6*0.8PH_V1.1	
-0044	HA03751	wire-RS	200mm UL1015 18AWG plam	
⊢0045	HA03752	wire-RS	200mm UL1015 18AWG blue	
└0046	MH01857	separating shade	TUBE SHIELD-1(BELTON)	
<b>⊢</b> 0016	MG00384	screw	M5*18.5*0.8PH	
<b>⊢</b> 0017	NE12596	lable	ASHDOWN 120V_V1.0	
<b>⊢</b> 0018	NF03556	user manual-RS	JCA22H JET CITY_V1.0	
<b>⊢</b> 0019	NE21047	label-RS	JCA22H_V1.1	
<b>⊢</b> 0020	NE21046	label-RS	JCA22H_V1.0	
<b>⊢</b> 0021	NB06922	carton-RS-CT	JCA22H JET CITY_V1.0	
<b>⊢</b> 0022	NA00270	sponge-RS	ASHDOWN 140*140*140mm_V1.0	
└0023	NA00706	silk wadding-RS	TPS218NEO-SUB_V1.0	

# UK

Rank	Part No	Description	Specification	Insert Location
PI02568		AMPLIFIER	JCA22H_JET CITY_240V_CHINA	
<b>⊢</b> 0001	MG00063	screw	M3*12	
<b>⊢</b> 0002	MG00384	screw	M5*18.5*0.8PH	
<b>⊢</b> 0003	MG00489	screw	M3*20	
<b>⊢</b> 0004	MG00511	screw-RS	M4*37_V1.1	
<b>⊢</b> 0005	HA00866	power cord (British 3P)	LT-318+0.75*3C(H05VV-F) 6FT+LT-501	
<b>⊢</b> 0006	MG00670	SCREW-RS	M6*40	
<b>⊢</b> 0007	MF00155	washer-RS	φ18*φ6.5*0.8t	
<b>⊢0008</b>	NE12598	lable	ASHDOWN 240V_V1.0	
<b>⊢</b> 0009	NA00875	PE bag-RS	0.05t*820*540mm_V1.0	
<b>⊢</b> 0010	NA00858	PE bag-RS	0.04t*240*160mm_V1.0	
<b>⊢</b> 0011	NI05676	label-RS-CT-ABS	JC-20 6.35*φ104.43_V1.0	
<del>-</del> 0012	MD01431	iron net-RS	93*389 PH=25*12_V1.1	
<del>-</del> 0013	NE19827	label-RS	JET CITY SERIES_V1.0	
<del>-</del> 0014	NA01048	silk wadding-RS-CT	JCA100H_V1.0	
⊢0015		faceplate	FOOTSWITCH_JET CITY_JCA50H	
-0001	1	fixed resistor 1/4W	68ΚΩ	
I ⊢0002		L.E.D-RS	φ3 blue(TY-30BL5TM70-250)	
I -0003	NI00559	bushing	5P-4	
I -0004	NI02952	lamp cover	LC3-1 ψ3 LED	
H0005	1	screw-RS	M3*6	
⊢0006		foot-switch-RS-C	01-690C	
H0007	HC00038		φ6.3(metal)	
-0008	-	MIC wire-RS	φ6*1C*20/0.12+30/0.12*15FT	
H0009	ND00619		2.0t*70*105 black_V1.0	
-0010	1	PE bag-RS	0.04t*280*220mm_V1.0	
-0010		inner case-RS-CT	JCA100H_V1.0	
-0011	MA08125		JCA-100H JET CIYT _V1.2	
-0012	MB04441		ABM SINGLE 1.6t*45*110*83.5_V1.3	
-0016  -0016		faceplate	JCA22H_JET CITY_230V	
-0010	NI03489	plastic washer	2.6*φ15.7*φ9.8 T-664-D01	
	NI00252	sleeve	φ4*20mm	
-0002	NI00252	sleeve	φ6*18mm	
-0003	NI00207	rubber stopper	φ9*φ20*10mm black V1.0	
-0004		cable tie	ALT-102SB	
-			0.5*44*15_V1.0	
-0006	NC00424	protective cover	1.6*\(\phi\)1.3*\(\phi\)15.4 T0661-WA11.1-R red	
-0007	MF00039		' '	
-0008	-		φ5*φ8*1.2T_V 1.2	
-0009		washer-RS	φ4*φ7*1t	
-0010	1	washer-RS	φ4*φ8*0.5t	
-0011	ME00016		4m/m	
-0012	1	separating shade	TUBE RETAINER2-1(BELTON)	
-0013	MG00566		M3*10*0.5PH_V1.0	
-0014	MG00477		6mm	
-0015		screw-RS	M3*6	
-0016		power switch-RS	4p black frame red key	
-0017		glass tube fuse	1.6A 250V φ5.2*20mm CSA/S/UL/VDE	
-0018	1	vacuum tube	12AX7WA	
-0019		AC socket	3515 A TYPE(RF-2004-C-4.8)	
⊢0020		signle terminal wiring CF:W08	170 red	
-0021	HA00587		70mm yellow L5R5	
-0022	HA00436		150mm blue L5R5	
-0023	1	signle terminal wiring	120mm UL1015 18AWG	
⊢0024	HA03752	wire-RS	200mm UL1015 18AWG blue	
⊢0025	HA03751	wire-RS	200mm UL1015 18AWG plam	
⊢0026	HA02324	signle terminal wiring	160mm UL1015 18AWG black	

Rank	Part No	Description	Specification	Insert Location
H0027	HA02382	•	55mm black L5R5	moon 200anon
⊢0028	HA04142		100mm UL1015 18AWG green roll yellow	
I -0029		hole stopper	GA-20 φ16*φ27*10 black	
I -0030	MG00042		M3*10	
I -0031	HD00137	vacuum tube-RS	EL84	
-0032	MG00846	iron pillar-RS	M3*10*0.5PH 15mm_V1.0	
-0033	MF00189	washer-RS	φ12*φ7.2*0.4	
-0034	ME00303	copper nut-RS	φ10*φ7*2.5	
⊢0035	ME00304	copper nut-RS	9.3*φ6.42*φ9.35 T-0664-N	
⊢0036	NI05689	knob-RS-CT	φ25.4*15_V1.0	
-0037	TF00125	Output Transformer-RS	OT-JC20	
⊢0038	HA05417	wire-RS	300mm grey LG5RG5	
⊢0039	HK13508	PC board-RS	P-JCA-SW	
-0001	HB03159	PCB-RS	JCA-SW(1*5)_VER110809	
	HI00345	slide switch-RS	L21-22A2 10A/250V	SW1
_0003	AC00603	lead free soldering bar	S100	
-0040	HI00455	power switch-RS	4P 16A R595KFIT2FA	
-0041		PC board-RS	P-JCA22H_OUT-DIP	
		lead free soldering bar	S100	
		stereo MIC jack-RS	φ6.4 S-6351-4P	J2,J3,J4,J5,J6,J7
<u> </u>	HB03201		JCA22H_OUT(1*5)_VER100809	
1 1 1 1 1		PC board-RS	P-JCA22H_MAIN-DIP	
		precise metal-oxide-film resistor-RS 1W	470Ω	R38
		metal-oxide-film resistor 1W	1.8ΚΩ	R3,R15,R23
		precise metal-oxide-film resistor-RS 1W	100 ΚΩ	R7,R13,R14,R24,R25,R36
		precise metal-oxide-film resistor-RS 1W	10ΚΩ	R33,R40,R49,R50
		precise metal-oxide-film resistor-RS 2W	10.0kΩ±1%	R53
		precise metal-oxide-film resistor-RS 1W metal-oxide-film resistor 3W	15KΩ	R8,R11,R54,R29 R52
		precise metal-oxide-film resistor-RS 1W	1.0KΩ RSS P type 1MΩ	R1,R5,R9,R10,R18,R27,R37,R39
		precise metal-oxide-film resistor-RS 1W	2.2ΚΩ	R4,R28,R31,R45,R46
		precise metal-oxide-film resistor-RS 1W	2.2MΩ±1%	R19,R20
		precise metal-oxide-film resistor-RS 1W	220ΚΩ	R6,R21,R43,R44
		metal-oxide-film resistor-RS 3W	220KΩ P type	R51
1 1 1 44		precise metal-oxide-film resistor-RS 1W		R22
1		precise metal-oxide-film resistor-RS 1W		R16
		precise metal-oxide-film resistor-RS 1W		R30,R41
-0016	RA01883	precise metal-oxide-film resistor-RS 2W	470.0Ω±1%	R47,R48
-0017	RA01598	precise metal-oxide-film resistor-RS 1W	470ΚΩ	R12,R17,R34
-0018	RA01594	precise metal-oxide-film resistor-RS 1W	47ΚΩ	R26,R42
-0019	RA01881	precise metal-oxide-film resistor-RS 1W	68kΩ±1%	R2,R32
-0020	RA01603	precise metal-oxide-film resistor-RS 1W	82ΚΩ	R35
-0021	CA00117	ceramic capacitor-RS	0.001uF/500V Y5P	C5,C10
-0022	CF00212	metal-oxide-film capacitor-RS	0.022uF/400V 10%	C2,C4,C19,C23,C9,C11,C15,C16,C17,C24
-0023	CF00033	metal-film capacitor MEF	0.1uF/250V 10%	C21,C22
-0024	CB00366	electrolytic capacitor-RS	10uF/450V φ13*21mm	C3,C12,C30
-0025	CF00046	metal-film capacitor MEF	1.0uF/250V 10%	C1,C8,C13,C18
-0026	CB00326	electrolytic capacitor-RS	22000uF/25V ψ30*35mm	C29
-0027	CB00415	electrolytic capacitor-RS	22uF/450V 105℃ φ16*25mm	C27,C28
		electrolytic capacitor-RS	22uF/100V φ8*12mm	C25
		ceramic capacitor-RS	270PF/500V Y5P	C20
		ceramic capacitor-RS	470PF/1000V Y5P	C6,C7,C14
		electrolytic capacitor-RS	47uF/450V 105°C φ18*25mm	C26
		potentiometer	A1MΩ RV16A-20-15K-A1M-3	VR1,VR2,VR3,VR6,VR7
		potentiometer	B25KΩ RV16A-20-15K-B25K-3	VR4,VR8
		potentiometer	B250KΩ RV16A-20-15K-B250K-3	VR5
		precise metal-oxide-film resistor-RS	B50K T1502N-AI-B503-0H03	VR9
	SAU0159	rectifier diode	1A/1000V IN4007	D1,D2,D3,D4,D5,D7

Rank	Part No	Description	Specification	Insert Location
-0037	SA00005	bridge rectifier	4A/400V RS405	D6
	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J1
-0039	HC00890	vacuum tube holder-RS	9PIN PCB (GZC9-B)	V1,V2,V3,V4,V5,V6,V7
-0040	RA00157	fixed resistor 1/4W	0Ω	JPO1
-0041	HI00008	relay	RY-12W-K 12V	RLY1,RLY2
-0042	AC00603	lead free soldering bar	S100	
-0043	HB03200	PCB-RS	JCA22H_MAIN_VER100809	
-0043	MA08801	panel-RS	JCA22H JET CITY_V1.0	
	TC00473	transformer-RS	PT-JCA22H_100/120/240V_50/60Hz	
⊢0045	MH01857	separating shade	TUBE SHIELD-1(BELTON)	
└0046	MG00909	screw-RS	M5*12*0.8PH	
<b>⊢</b> 0017	NC03051	box-RS	JCA20H 23#_V1.2	
<b>⊢</b> 0018	NF03556	user manual-RS	JCA22H JET CITY_V1.0	
<b>⊢</b> 0019	NE21047	label-RS	JCA22H_V1.1	
<b>⊢0020</b>	NE21046	label-RS	JCA22H_V1.0	
<b>⊢</b> 0021	NB06922	carton-RS-CT	JCA22H JET CITY_V1.0	
<b>⊢0022</b>	NA00270	sponge-RS	ASHDOWN 140*140*140mm_V1.0	
└0023	NA00706	silk wadding-RS	TPS218NEO-SUB_V1.0	

### **AUSTRALIA**

Rank	Part No	Description	Specification	Insert Location
PI02569		AMPLIFIER	JCA22H JET CITY 240V CHINA	
<b>⊢0001</b>	MG00063	screw	M3*12	
<del>-</del> 0002	MG00384	screw	M5*18.5*0.8PH	
⊢0003	MG00489	screw	M3*20	
<b>⊢0004</b>	MG00511	screw-RS	M4*37_V1.1	
⊢0005	HA00849	power cord Australia 3P	LT-208A+0.75*3C(H05VV-F) 1.83M+LT-501	
⊢0006	MG00670	SCREW-RS	M6*40	
<b>⊢0007</b>	MF00155	washer-RS	φ18*φ6.5*0.8t	
⊢0008	NE12598	lable	ASHDOWN 240V_V1.0	
<b>⊢0009</b>	NA00875	PE bag-RS	0.05t*820*540mm_V1.0	
<b>⊢</b> 0010	NA00858	PE bag-RS	0.04t*240*160mm_V1.0	
<b>⊢</b> 0011	NI05676	label-RS-CT-ABS	JC-20 6.35*φ104.43_V1.0	
<b>⊢</b> 0012	MD01431	iron net-RS	93*389 PH=25*12_V1.1	
<b>⊢</b> 0013	NE19827	label-RS	JET CITY SERIES_V1.0	
<b>⊢</b> 0014	NA01048	silk wadding-RS-CT	JCA100H_V1.0	
<b>⊢</b> 0015	HK12252	faceplate	FOOTSWITCH_JET CITY_JCA50H	
-0001	RA00805	fixed resistor 1/4W	68ΚΩ	
⊢0002	SA00379	L.E.D-RS	φ3 blue(TY-30BL5TM70-250)	
-0003	NI00559	bushing	5P-4	
⊢0004	NI02952	lamp cover	LC3-1 ψ3 LED	
⊢0005	MG00025		M3*6	
⊢0006	HI00295	foot-switch-RS-C	01-690C	
⊢0007	HC00038		φ6.3(metal)	
⊢0008	HA01710	MIC wire-RS	φ6*1C*20/0.12+30/0.12*15FT	
⊢0009	ND00619	EV foam	2.0t*70*105 black_V1.0	
⊢0010	NA00860	PE bag-RS	0.04t*280*220mm_V1.0	
-0011	NB06512	inner case-RS-CT	JCA100H_V1.0	
-0012	MA08125	panel-RS	JCA-100H JET CIYT _V1.2	
<b>⊢</b> 0016	HK13066	faceplate	JCA22H_JET CITY_230V	
-0001	NI03489	plastic washer	2.6*φ15.7*φ9.8 T-664-D01	
⊢0002	NI00252	sleeve	φ4*20mm	
⊢0003	NI00267	sleeve	φ6*18mm	
⊢0004	NI00171	rubber stopper	φ9*φ20*10mm black_V1.0	
-0005	NI00218	cable tie	ALT-102SB	
⊢0006	NI03205	protective cover	0.5*44*15 V1.0	
⊢0007	NC00424			
⊢0008	MF00039	washer	φ5*φ8*1.2T_V 1.2	
I ⊢0009	MF00038	washer-RS	φ4*φ7*1t	
-0010	MF00048	washer-RS	φ4*φ8*0.5t	
-0011	ME00016	color nut	4m/m	
⊢0012	MH01859	separating shade	TUBE RETAINER2-1(BELTON)	
⊢0013	MG00566	screw	M3*10*0.5PH V1.0	
	MG00477		6mm	
<del> </del> -0015	MG00269		M3*6	
H0016		power switch-RS	4p black frame red key	
-0017		glass tube fuse	1.6A 250V φ5.2*20mm CSA/S/UL/VDE	
-0018		vacuum tube	12AX7WA	
-0019		AC socket	3515 A TYPE(RF-2004-C-4.8)	
I ⊢0020		signle terminal wiring CF:W08	170 red	
H0021	HA00587	•	70mm yellow L5R5	
I ⊢0022	HA00436		150mm blue L5R5	
-0023		signle terminal wiring	120mm UL1015 18AWG	
-0024	HA03752		200mm UL1015 18AWG blue	
-0025	HA03751		200mm UL1015 18AWG plam	
⊢0025   ⊢0026		signle terminal wiring	160mm UL1015 18AWG black	
-0027	HA02382		55mm black L5R5	
-0028	HA04142		100mm UL1015 18AWG green roll yellow	
-0029		hole stopper	GA-20 φ16*φ27*10 black	
-0030	MG00042		M3*10	
-0030		vacuum tube-RS	EL84	
-0031		iron pillar-RS	M3*10*0.5PH 15mm V1.0	
\  \  \  \  \  \  \  \  \  \  \  \  \		washer-RS	φ12*φ7.2*0.4	
-0033		copper nut-RS	φ10*φ7*2.5	
\ \-003 <del>4</del>   \ \-0035		copper nut-RS	9.3*φ6.42*φ9.35 T-0664-N	
		knob-RS-CT	•	
⊢0036   ⊢0037		Output Transformer-RS	φ25.4*15_V1.0 OT-JC20	
<u> </u>		<u>'</u>		
⊢0038	HA05417	MIIC-I/O	300mm grey LG5RG5	

Rank	Part No	Description	Specification	Insert Location
H0039		PC board-RS	P-JCA-SW	insert Education
	HB03159		JCA-SW(1*5) VER110809	
		slide switch-RS	L21-22A2 10A/250V	SW1
		lead free soldering bar	S100	
		power switch-RS	4P 16A R595KFIT2FA	
		PC board-RS	P-JCA22H OUT-DIP	
		lead free soldering bar	S100	
		stereo MIC jack-RS	φ6.4 S-6351-4P	J2,J3,J4,J5,J6,J7
	HB03201		JCA22H_OUT(1*5)_VER100809	,,,,,
		PC board-RS	P-JCA22H MAIN-DIP	
	RA01606	precise metal-oxide-film resistor-RS 1W	470Ω	R38
⊢0002	RA00808	metal-oxide-film resistor 1W	1.8ΚΩ	R3,R15,R23
-0003	RA01596	precise metal-oxide-film resistor-RS 1W	100 ΚΩ	R7,R13,R14,R24,R25,R36
-0004	RA01601	precise metal-oxide-film resistor-RS 1W	10ΚΩ	R33,R40,R49,R50
-0005	RA01884	precise metal-oxide-film resistor-RS 2W	10.0kΩ±1%	R53
	RA01605	precise metal-oxide-film resistor-RS 1W	15ΚΩ	R8,R11,R54,R29
-0007	RA00062	metal-oxide-film resistor 3W	1.0KΩ RSS P type	R52
-0008	RA01593	precise metal-oxide-film resistor-RS 1W	1ΜΩ	R1,R5,R9,R10,R18,R27,R37,R39
-0009	RA01595	precise metal-oxide-film resistor-RS 1W	2.2ΚΩ	R4,R28,R31,R45,R46
-0010	RA01886	precise metal-oxide-film resistor-RS 1W	2.2MΩ±1%	R19,R20
-0011	RA01599	precise metal-oxide-film resistor-RS 1W	220ΚΩ	R6,R21,R43,R44
		metal-oxide-film resistor-RS 3W	220KΩ P type	R51
-0013	RA01882	precise metal-oxide-film resistor-RS 1W	330kΩ±1%	R22
-0014	RA01847	precise metal-oxide-film resistor-RS 1W	39ΚΩ	R16
		precise metal-oxide-film resistor-RS 1W	4.7ΚΩ	R30,R41
		precise metal-oxide-film resistor-RS 2W	470.0Ω±1%	R47,R48
		precise metal-oxide-film resistor-RS 1W	470ΚΩ	R12,R17,R34
		precise metal-oxide-film resistor-RS 1W	47ΚΩ	R26,R42
		precise metal-oxide-film resistor-RS 1W	68kΩ±1%	R2,R32
		precise metal-oxide-film resistor-RS 1W	82ΚΩ	R35
		ceramic capacitor-RS	0.001uF/500V Y5P	C5,C10
		metal-oxide-film capacitor-RS	0.022uF/400V 10%	C2,C4,C19,C23,C9,C11,C15,C16,C17,C24
		metal-film capacitor MEF electrolytic capacitor-RS	0.1uF/250V 10% 10uF/450V φ13*21mm	C21,C22 C3,C12,C30
		metal-film capacitor MEF	1.0uF/450V 4/13 2 mm	C1,C8,C13,C18
		electrolytic capacitor-RS	22000uF/25V ψ30*35mm	C29
		electrolytic capacitor-RS	22uF/450V 105℃ φ16*25mm	C27,C28
		electrolytic capacitor-RS	22uF/100V φ8*12mm	C25
		ceramic capacitor-RS	270PF/500V Y5P	C20
		ceramic capacitor-RS	470PF/1000V Y5P	C6,C7,C14
		electrolytic capacitor-RS	47uF/450V 105℃ φ18*25mm	C26
		potentiometer	A1MΩ RV16A-20-15K-A1M-3	VR1,VR2,VR3,VR6,VR7
		potentiometer	B25KΩ RV16A-20-15K-B25K-3	VR4,VR8
-0034	RC00501	potentiometer	B250KΩ RV16A-20-15K-B250K-3	VR5
		precise metal-oxide-film resistor-RS	B50K T1502N-AI-B503-0H03	VR9
-0036	SA00159	rectifier diode	1A/1000V IN4007	D1,D2,D3,D4,D5,D7
-0037	SA00005	bridge rectifier	4A/400V RS405	D6
-0038	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J1
-0039	HC00890	vacuum tube holder-RS	9PIN PCB (GZC9-B)	V1,V2,V3,V4,V5,V6,V7
-0040	RA00157	fixed resistor 1/4W	0Ω	JPO1
	80000IH	•	RY-12W-K 12V	RLY1,RLY2
		lead free soldering bar	S100	
	HB03200		JCA22H_MAIN_VER100809	
	MA08801		JCA22H JET CITY_V1.0	
-0044		transformer-RS	PT-JCA22H_100/120/240V_50/60Hz	
		separating shade	TUBE SHIELD-1(BELTON)	
	MG00909		M5*12*0.8PH	
├0017 ├0010	NC03051		JCA20H 23#_V1.2	
├0018 └0010		user manual-RS	JCA22H JET CITY_V1.0	
├0019 └0030	NE21047		JCA22H_V1.1	
├0020 └0031	NE21046		JCA22H_V1.0	
⊢0021 ⊢0022		carton-RS-CT sponge-RS	JCA22H JET CITY_V1.0 ASHDOWN 140*140*140mm V1.0	
⊢0022 └0023		silk wadding-RS	TPS218NEO-SUB_V1.0	
0023	11/100/00	Siin waddiig-10	11 OF IONEO-OOD_A 1.0	

# **JAPAN**

Rank	Part No	Description	Specification	Insert Location
PI02570		AMPLIFIER	JCA22H_JET CITY_100V_CHINA	
<b>⊢</b> 0001	MG00063	screw	M3*12	
<b>⊢0002</b>	MG00384	screw	M5*18.5*0.8PH	
<b>⊢</b> 0003	MG00489	screw	M3*20	
<b>⊢0004</b>	MG00511	screw-RS	M4*37_V1.1	
⊢0005	MG00670	SCREW-RS	M6*40	
<b>⊢0006</b>	MF00155	washer-RS	φ18*φ6.5*0.8t	
<b>⊢0007</b>	NE12595	lable	ASHDOWN 100V_V1.0	
⊢0008	NA00875	PE bag-RS	0.05t*820*540mm_V1.0	
⊢0009	NA00858	PE bag-RS	0.04t*240*160mm_V1.0	
<b>⊢</b> 0010	NI05676	label-RS-CT-ABS	JC-20 6.35*φ104.43_V1.0	
<del>-</del> 0011	MD01431	iron net-RS	93*389 PH=25*12_V1.1	
<b>⊢</b> 0012	NE19827	label-RS	JET CITY SERIES_V1.0	
<b>⊢</b> 0013	NA01048	silk wadding-RS-CT	JCA100H_V1.0	
<del>-</del> 0014	HK12252	faceplate	FOOTSWITCH_JET CITY_JCA50H	
-0001	RA00805	fixed resistor 1/4W	68ΚΩ	
⊢0002	SA00379	L.E.D-RS	φ3 blue(TY-30BL5TM70-250)	
-0003	NI00559	bushing	5P-4	
-0004	NI02952	lamp cover	LC3-1 ψ3 LED	
⊢0005	MG00025	screw-RS	M3*6	
⊢0006	HI00295	foot-switch-RS-C	01-690C	
⊢0007	HC00038	MIC plug	φ6.3(metal)	
⊢0008	HA01710	MIC wire-RS	φ6*1C*20/0.12+30/0.12*15FT	
-0009	ND00619	EV foam	2.0t*70*105 black_V1.0	
-0010	NA00860	PE bag-RS	0.04t*280*220mm_V1.0	
-0011	NB06512	inner case-RS-CT	JCA100H_V1.0	
-0012	MA08125	panel-RS	JCA-100H JET CIYT _V1.2	
-0013	MB04441	chassis	ABM SINGLE 1.6t*45*110*83.5_V1.3	
⊢0015	HK13064	faceplate	JCA22H_JET CITY_100V	
-0001	NI03489	plastic washer	2.6*φ15.7*φ9.8 T-664-D01	
-0002	NI00252	sleeve	φ4*20mm	
-0003	NI00267	sleeve	φ6*18mm	
-0004	NI00171	rubber stopper	φ9*φ20*10mm black_V1.0	
-0005	NI00218	cable tie	ALT-102SB	
⊢0006	NI05968	protective cover-RS	0.5t*44*15mm PP-BK15 black_V1.1	
-0007	NC00424	washer	1.6*φ11.3*φ15.4 T0661-WA11.1-R red	
-0008	MF00039	washer	φ5*φ8*1.2T_V 1.2	
-0009	MF00038	washer-RS	φ4*φ7*1t	
⊢0010	MF00048	washer-RS	φ4*φ8*0.5t	
-0011	ME00016	color nut	4m/m	
-0012	MH01859	separating shade	TUBE RETAINER2-1(BELTON)	
-0013	MG00566	screw	M3*10*0.5PH_V1.0	
-0014	MG00599	screw	M5*6*0.8PH_V1.1	
⊢0015	MG00477	nut	6mm	
⊢0016	MG00269	screw-RS	M3*6	
-0017	HI00022	power switch-RS	4p black frame red key	
-0018	HD00104	glass tube fuse-RS	3.15A 250V φ5.2*20mm CSA/UL/PSE	
⊢0019	HD00063	vacuum tube	12AX7WA	
⊢0020	HC00008	AC socket	3515 A TYPE(RF-2004-C-4.8)	
⊢0021	HA01138	signle terminal wiring CF:W08	170 red	

Rank	Part No	Description	Specification	Insert Location
-0022	HA00587	wire	70mm yellow L5R5	
-0023	HA00436	wire	150mm blue L5R5	
-0024	HA03943	signle terminal wiring	120mm UL1015 18AWG	
-0025	HA03752	wire-RS	200mm UL1015 18AWG blue	
-0026	HA03751	wire-RS	200mm UL1015 18AWG plam	
-0027	HA02324	signle terminal wiring	160mm UL1015 18AWG black	
-0028	HA02382	wire-RS	55mm black L5R5	
-0029	HA04142	wire	100mm UL1015 18AWG green roll yellow	
-0030	NI04105	hole stopper	GA-20 φ16*φ27*10 black	
-0031	MG00042	screw	M3*10	
⊢0032	HD00137	vacuum tube-RS	EL84	
⊢0033	MG00846	iron pillar-RS	M3*10*0.5PH 15mm_V1.0	
⊢0034	MF00189	washer-RS	φ12*φ7.2*0.4	
⊢0035	ME00303	copper nut-RS	φ10*φ7*2.5	
⊢0036	ME00304	copper nut-RS	9.3*φ6.42*φ9.35 T-0664-N	
-0037	NI05689	knob-RS-CT	φ25.4*15_V1.0	
⊢0038	TF00125	Output Transformer-RS	OT-JC20	
⊢0039	HA05417	wire-RS	300mm grey LG5RG5	
-0040	HK13508	PC board-RS	P-JCA-SW	
-0001	HB03159	PCB-RS	JCA-SW(1*5)_VER110809	
-0002	HI00345	slide switch-RS	L21-22A2 10A/250V	SW1
_0003	AC00603	lead free soldering bar	S100	
-0041	HI00455	power switch-RS	4P 16A R595KFIT2FA	
⊢0042	HK12443	PC board-RS	P-JCA22H_OUT-DIP	
-0001	AC00603	lead free soldering bar	S100	
-0002	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J2,J3,J4,J5,J6,J7
_0003	HB03201	PCB-RS	JCA22H_OUT(1*5)_VER100809	
-0043	HK12442	PC board-RS	P-JCA22H_MAIN-DIP	
-0001	RA01606	precise metal-oxide-film resistor-RS 1W	470Ω	R38
-0002	RA00808	metal-oxide-film resistor 1W	1.8ΚΩ	R3,R15,R23
-0003	RA01596	precise metal-oxide-film resistor-RS 1W	100 ΚΩ	R7,R13,R14,R24,R25,R36
-0004	RA01601	precise metal-oxide-film resistor-RS 1W	10ΚΩ	R33,R40,R49,R50
-0005	RA01884	precise metal-oxide-film resistor-RS 2W	10.0kΩ±1%	R53
-0006	RA01605	precise metal-oxide-film resistor-RS 1W	15ΚΩ	R8,R11,R54,R29
-0007	RA00062	metal-oxide-film resistor 3W	1.0KΩ RSS P type	R52
1 1 1		precise metal-oxide-film resistor-RS 1W	1ΜΩ	R1,R5,R9,R10,R18,R27,R37,R39
		-	2.2ΚΩ	R4,R28,R31,R45,R46
		-	2.2MΩ±1%	R19,R20
			220ΚΩ	R6,R21,R43,R44
1 1 1 00		metal-oxide-film resistor-RS 3W	220KΩ P type	R51
• • •		precise metal-oxide-film resistor-RS 1W		R22
		-	39ΚΩ	R16
1 1 1 1 1 1			4.7ΚΩ	R30,R41
		-	470.0Ω±1%	R47,R48
		<u>'</u>	470ΚΩ	R12,R17,R34
1 1 1 1 1 1	RA01594	<u>'</u>	47ΚΩ	R26,R42
	RA01881	-	68kΩ±1%	R2,R32
	RA01603	<u>'</u>	82ΚΩ	R35
		ceramic capacitor-RS	0.001uF/500V Y5P	C5,C10
-0022	CF00212	metal-oxide-film capacitor-RS	0.022uF/400V 10%	C2,C4,C19,C23,C9,C11,C15,C16,C17,C24

Rank	Part No	Description	Specification	Insert Location
-0023	CF00033	metal-film capacitor MEF	0.1uF/250V 10%	C21,C22
-0024	CB00366	electrolytic capacitor-RS	10uF/450V φ13*21mm	C3,C12,C30
-0025	CF00046	metal-film capacitor MEF	1.0uF/250V 10%	C1,C8,C13,C18
-0026	CB00326	electrolytic capacitor-RS	22000uF/25V ψ30*35mm	C29
-0027	CB00415	electrolytic capacitor-RS	22uF/450V 105℃ φ16*25mm	C27,C28
-0028	CB00327	electrolytic capacitor-RS	22uF/100V φ8*12mm	C25
-0029	CA00137	ceramic capacitor-RS	270PF/500V Y5P	C20
-0030	CA00134	ceramic capacitor-RS	470PF/1000V Y5P	C6,C7,C14
-0031	CB00416	electrolytic capacitor-RS	47uF/450V 105℃ φ18*25mm	C26
-0032	RC00381	potentiometer	A1MΩ RV16A-20-15K-A1M-3	VR1,VR2,VR3,VR6,VR7
-0033	RC00502	potentiometer	B25KΩ RV16A-20-15K-B25K-3	VR4,VR8
-0034	RC00501	potentiometer	B250KΩ RV16A-20-15K-B250K-3	VR5
-0035	RC00591	precise metal-oxide-film resistor-RS	B50K T1502N-AI-B503-0H03	VR9
-0036	SA00159	rectifier diode	1A/1000V IN4007	D1,D2,D3,D4,D5,D7
-0037	SA00005	bridge rectifier	4A/400V RS405	D6
-0038	HC01135	stereo MIC jack-RS	φ6.4 S-6351-4P	J1
-0039	HC00890	vacuum tube holder-RS	9PIN PCB (GZC9-B)	V1,V2,V3,V4,V5,V6,V7
-0040	RA00157	fixed resistor 1/4W	Ω	JPO1
-0041	HI00008	relay	RY-12W-K 12V	RLY1,RLY2
-0042	AC00603	lead free soldering bar	S100	
-0043	HB03200	PCB-RS	JCA22H_MAIN_VER100809	
⊢0044	MA08801	panel-RS	JCA22H JET CITY_V1.0	
⊢0045	TC00473	transformer-RS	PT-JCA22H_100/120/240V_50/60Hz	
└0046	MH01857	separating shade	TUBE SHIELD-1(BELTON)	
<b>⊢</b> 0016	NC03051	box-RS	JCA20H 23#_V1.2	
<b>⊢</b> 0017	NF03556	user manual-RS	JCA22H JET CITY_V1.0	
<b>⊢</b> 0018	NE21047	label-RS	JCA22H_V1.1	
<b>⊢</b> 0019	NE21046	label-RS	JCA22H_V1.0	
<b>⊢</b> 0020	NB06922	carton-RS-CT	JCA22H JET CITY_V1.0	
<b>⊢</b> 0021	NA00270	sponge-RS	ASHDOWN 140*140*140mm_V1.0	
<b>⊢</b> 0022	NA00706	silk wadding-RS	TPS218NEO-SUB_V1.0	
<b>⊢</b> 0023	NE20507	label-RS	JCA_V1.0	
└0024	HA04366	wire-RS	LF-821+0.75*3C(VCTF)1.89M+LF-501	