# *Service* Manual

## MODEL: JCA22H

# CONTENTS

# 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;

External effects: control the switchable channels via the footswitch input
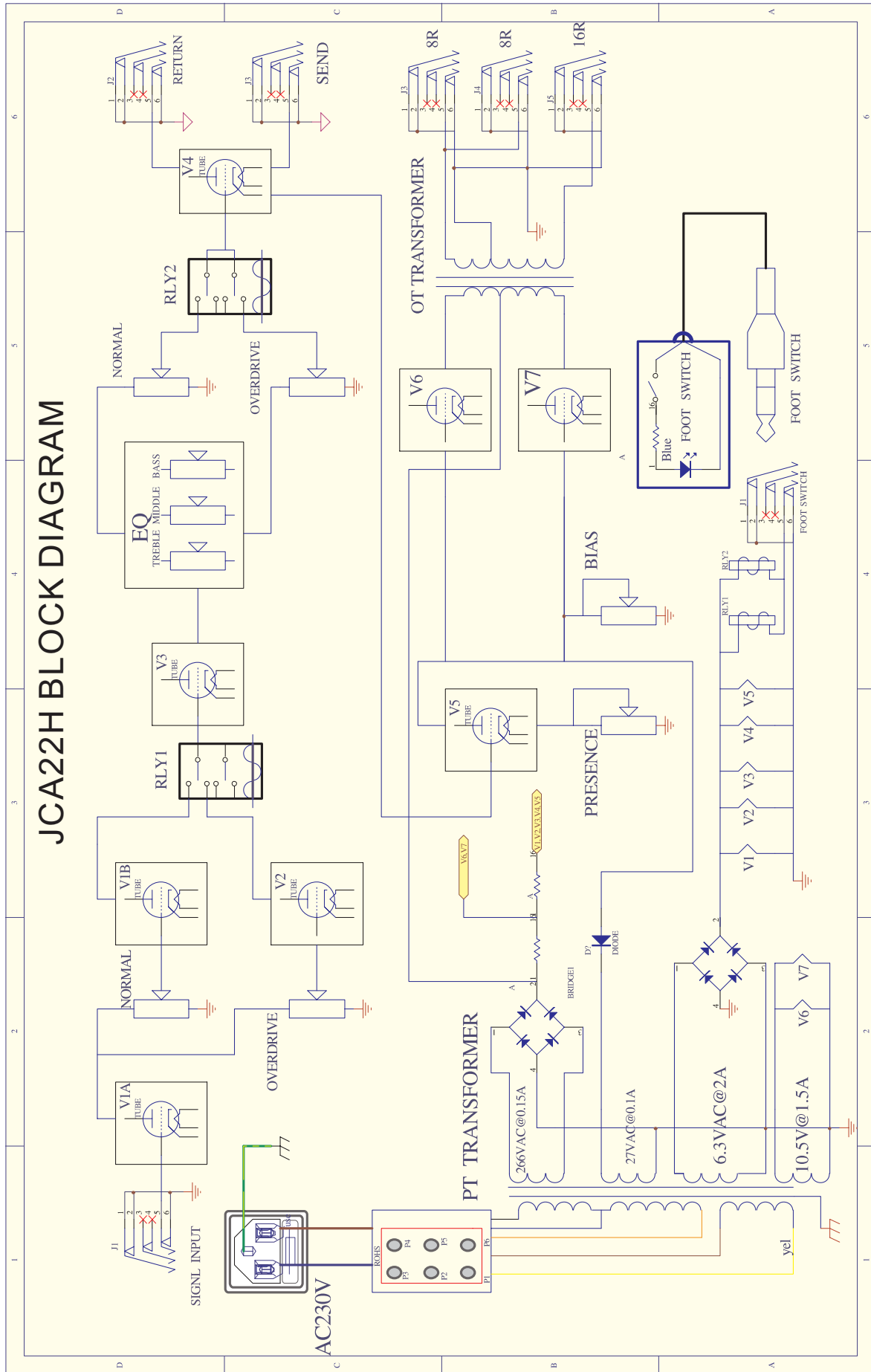
**Front panel:**

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

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



JCA22H BLOCK DIAGRAM

HK12443 P-JCA22H_OUT
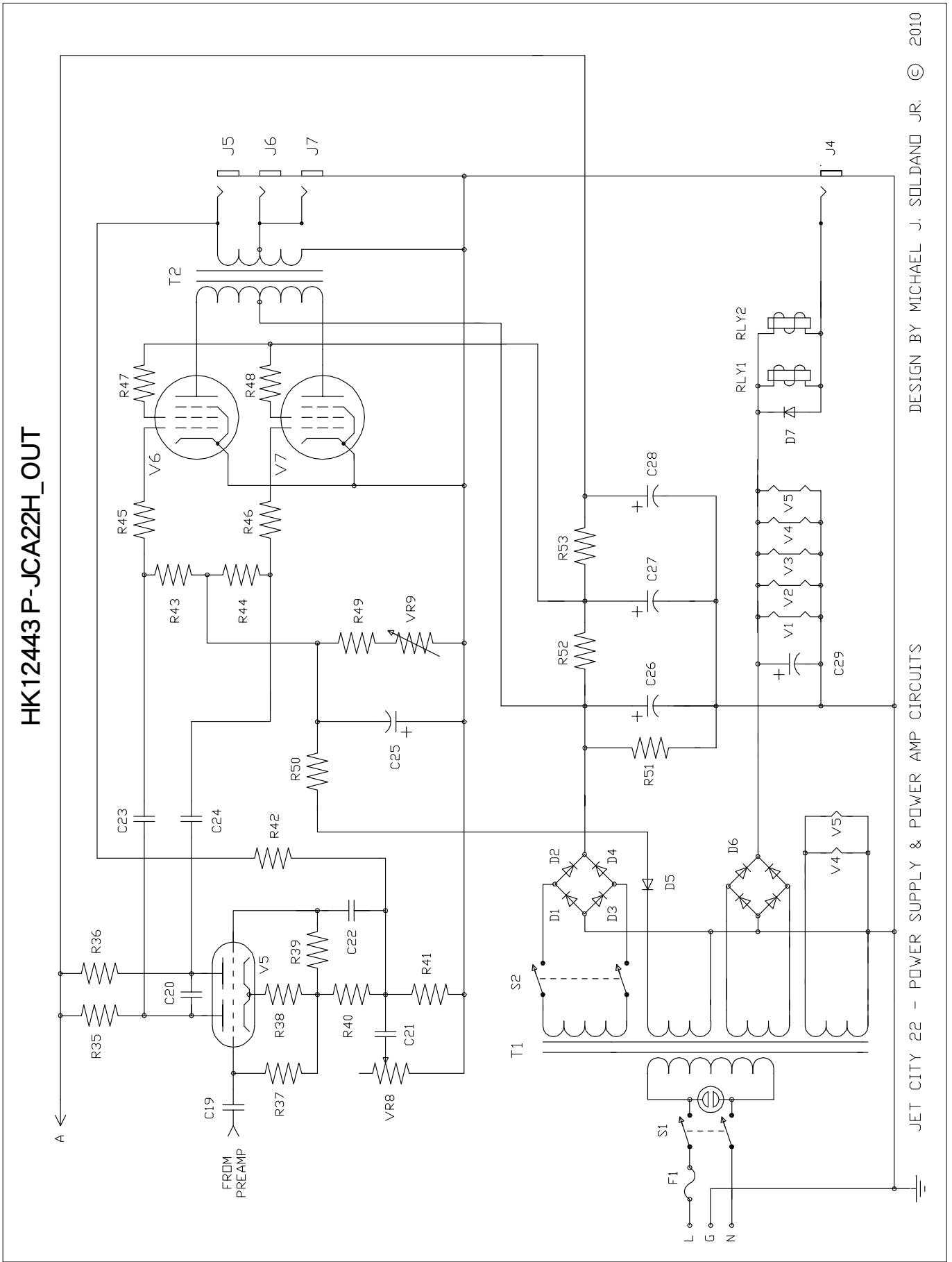
JET CITY 22 - POWER SUPPLY & POWER AMP CIRCUITS
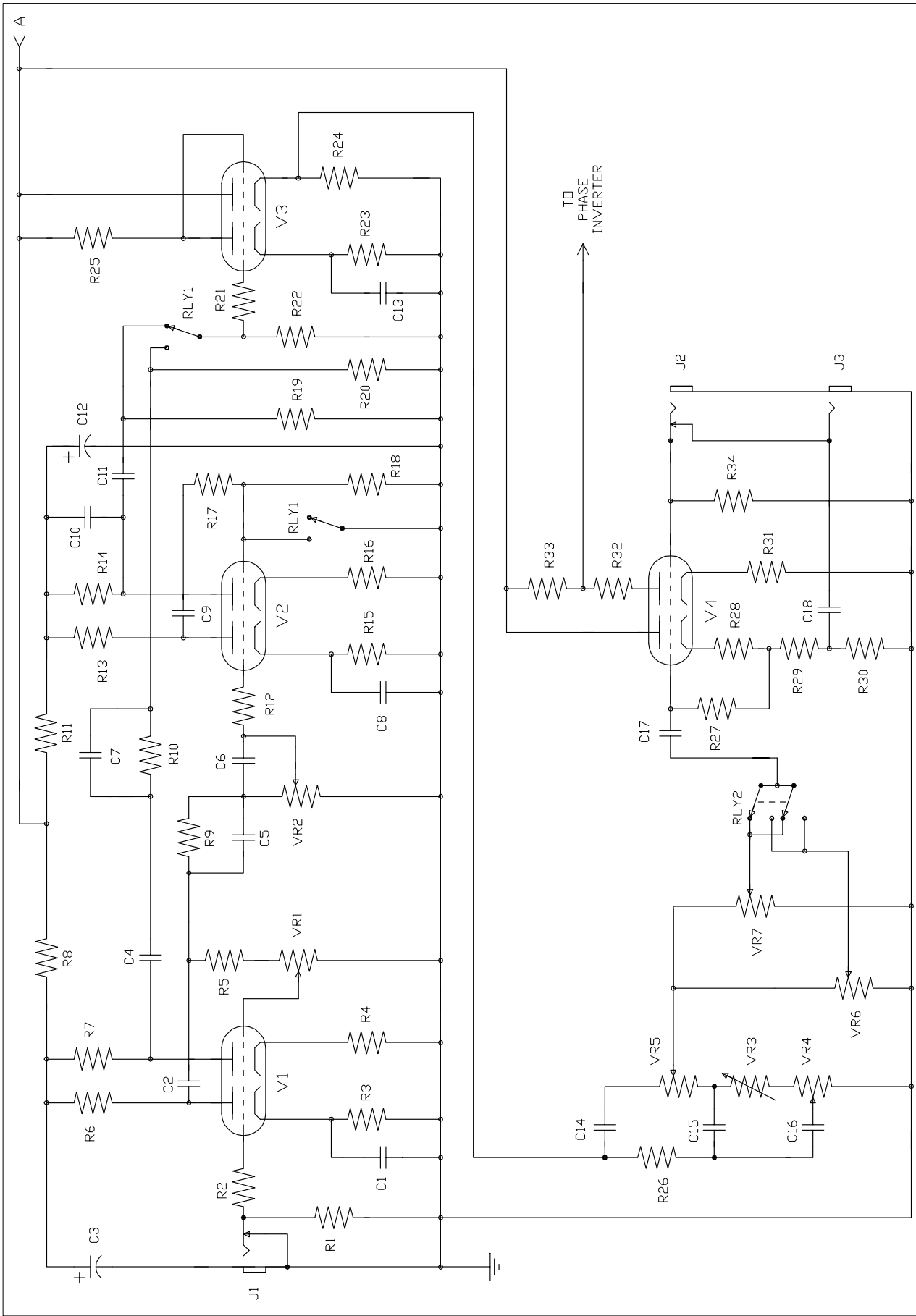
DESIGN BY MICHAEL J. SOLDANO JR. © 2010

JET CITY 22 - PREAMP CIRCUITS

DESIGN BY MICHAEL J. SOLDANO JR.  © 2010
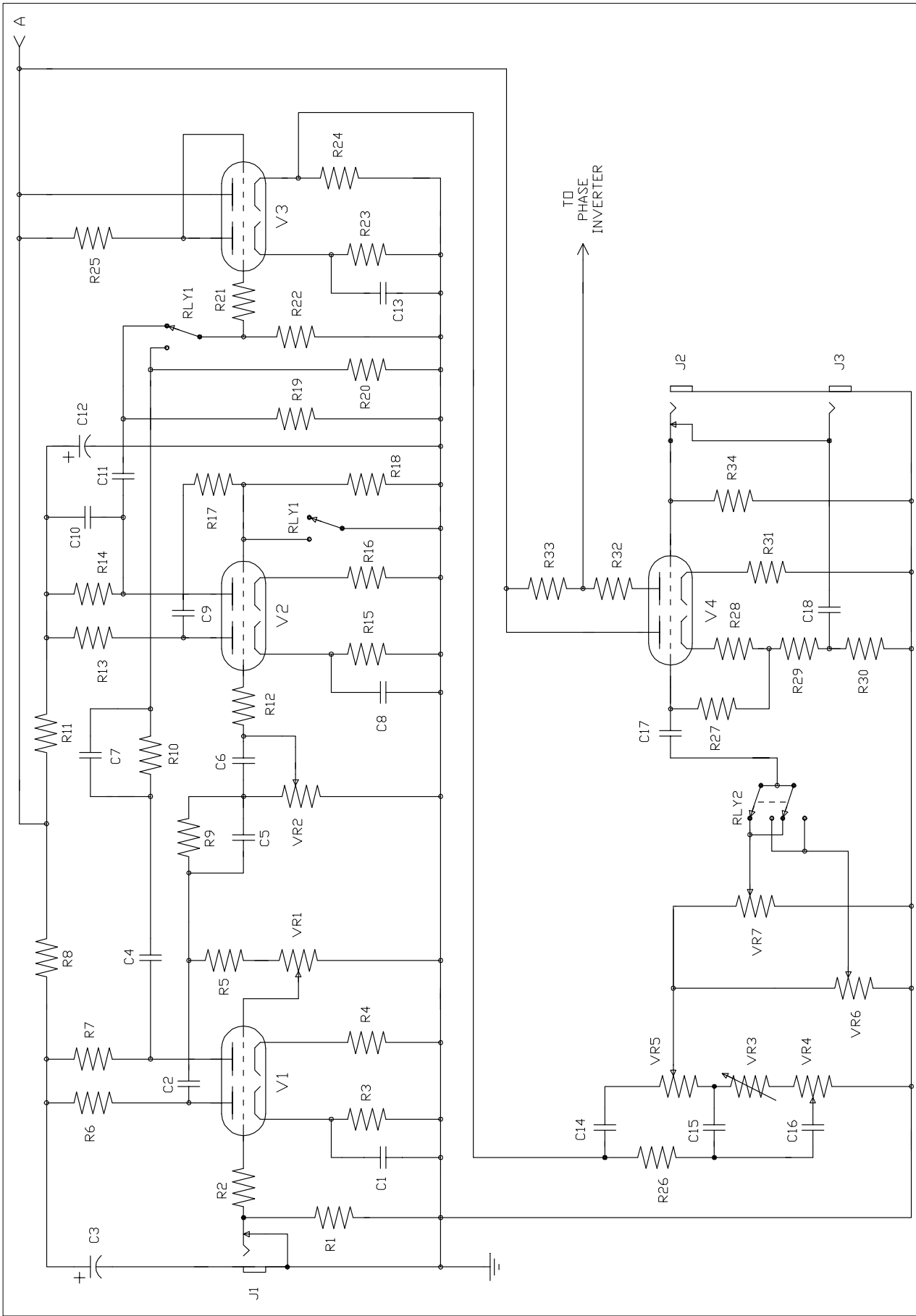
JET CITY 22 - PREAMP CIRCUITS

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# 4. WIRING DIAGRAM



JCA22H WIRING DIAGRAM

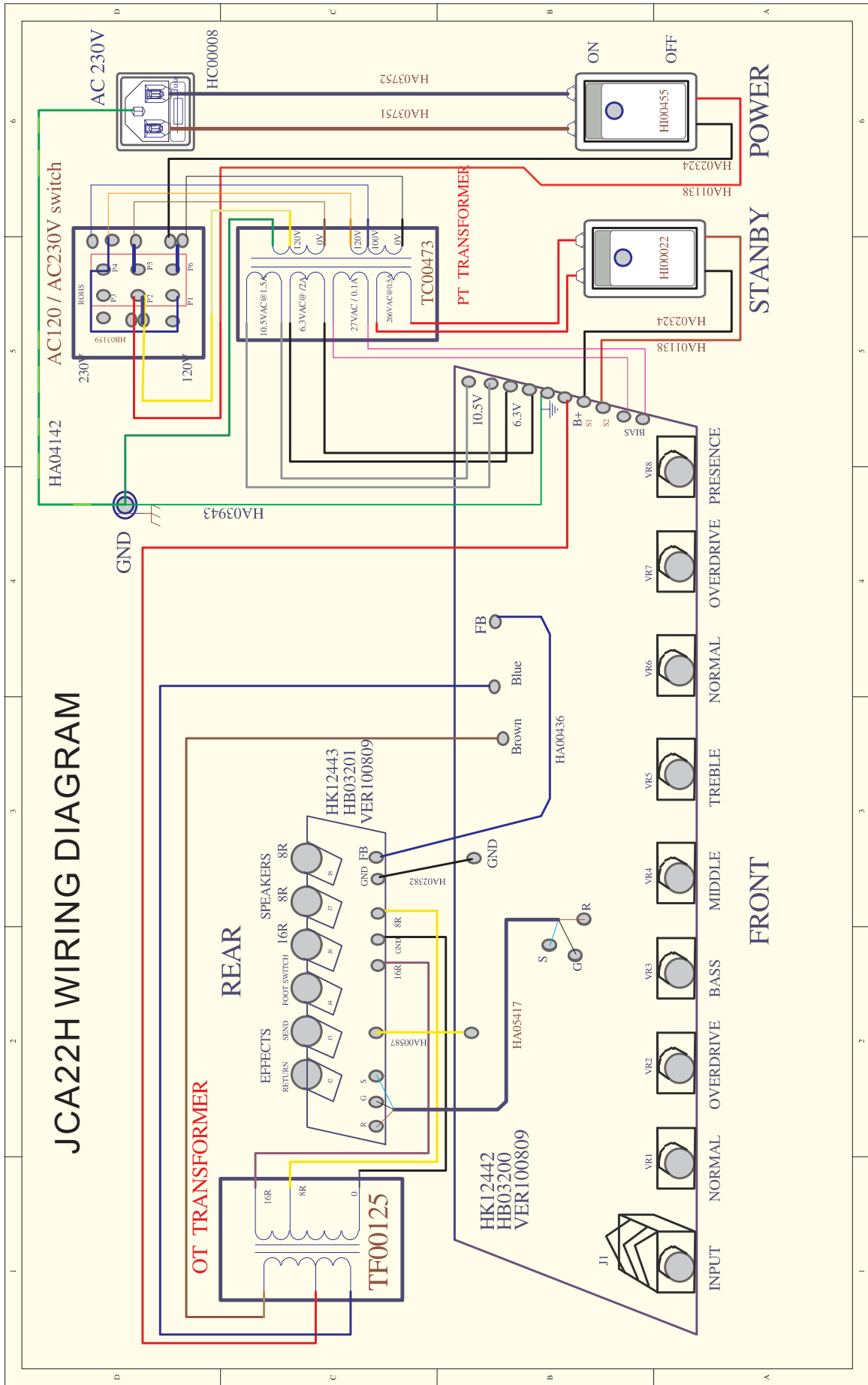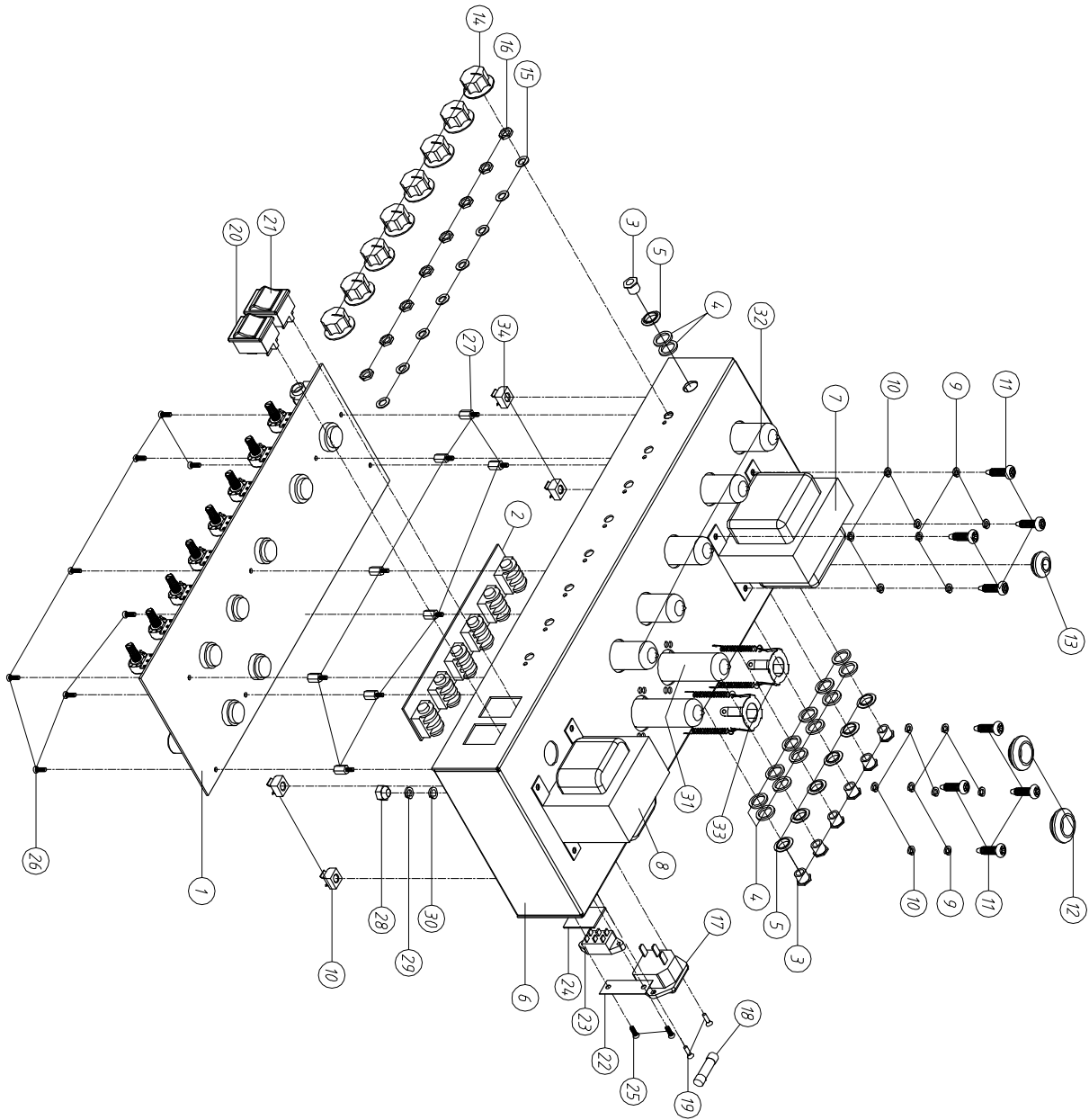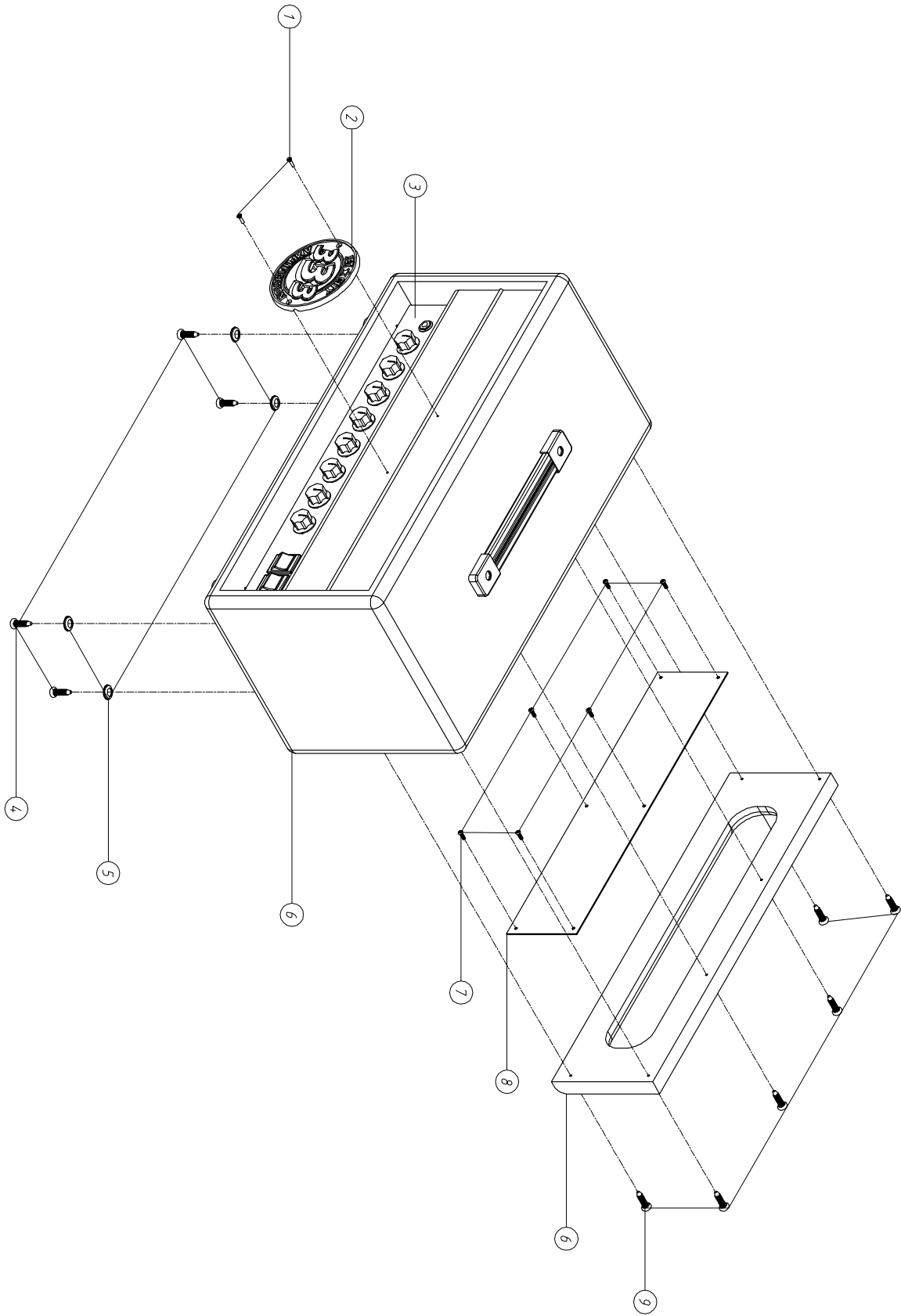| S/N | Part No | Description | Specification | Qty |
|-----|---------|-------------|---------------|-----|
| 1 | HK12442 | K-PCB | P-JCA22H_MAIN-DIP | 1 |
| 2 | HK12443 | K-PCB | P-JCA22H_OUT-DIP | 1 |
| 3 | ME00304 | T-nut-RS | 9.3*f 6.42*f 9.35 T-0664-N | 7 |
| 4 | NC00424 | T-wood washer-RS-ACT | 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 | |
| ├─0001 | MG00063 | screw | M3*12 | |
| ├─0002 | MG00489 | screw | M3*20 | |
| ├─0003 | MG00511 | screw-RS | M4*37_V1.1 | |
| ├─0004 | HA00861 | power cord Europe 3P | LT-312+LT-501 | |
| ├─0005 | MG00670 | SCREW-RS | M6*40 | |
| ├─0006 | MF00155 | washer-RS | φ18*φ6.5*0.8t | |
| ├─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 | |
| ├─0010 | NI05676 | label-RS-CT-ABS | JC-20 6.35*φ104.43_V1.0 | |
| ├─0011 | MD01431 | iron net-RS | 93*389 PH=25*12_V1.1 | |
| ├─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 | 68KΩ | |
| │ ├─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 | NC03051 | box-RS | JCA20H 23#_V1.2 | |
| ├─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 | 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 | MG00477 | nut | 6mm | |
| │ ├─0015 | MG00269 | screw-RS | M3*6 | |
| │ ├─0016 | HI00022 | power switch-RS | 4p black frame red key | |
| │ ├─0017 | HD00009 | glass tube fuse | 1.6A 250V φ5.2*20mm CSA/S/UL/VDE | |
| │ ├─0018 | HD00063 | vacuum tube | 12AX7WA | |
| │ ├─0019 | HC00008 | AC socket | 3515 A TYPE(RF-2004-C-4.8) | |
| │ ├─0020 | HA01138 | signle terminal wiring CF:W08 | 170 red | |
| │ ├─0021 | HA00587 | wire | 70mm yellow L5R5 | |
| │ ├─0022 | HA00436 | wire | 150mm blue L5R5 | |
| │ ├─0023 | HA03943 | 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 |
|---|---|---|---|---|
| ├─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 | 1.8KΩ | R3,R15,R23 |
| │ ├─0003 | RA01596 | precise metal-oxide-film resistor-RS 1W | 100 KΩ | R7,R13,R14,R24,R25,R36 |
| │ ├─0004 | RA01601 | precise metal-oxide-film resistor-RS 1W | 10KΩ | 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 | 15KΩ | 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 | 1MΩ | R1,R5,R9,R10,R18,R27,R37,R39 |
| │ ├─0009 | RA01595 | precise metal-oxide-film resistor-RS 1W | 2.2KΩ | 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 | 220KΩ | R6,R21,R43,R44 |
| │ ├─0012 | RA01539 | 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 | 39KΩ | R16 |
| │ ├─0015 | RA01604 | precise metal-oxide-film resistor-RS 1W | 4.7KΩ | 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 | 470KΩ | R12,R17,R34 |
| │ ├─0018 | RA01594 | precise metal-oxide-film resistor-RS 1W | 47KΩ | R26,R42 |
| │ ├─0019 | RA01881 | precise metal-oxide-film resistor-RS 1W | 68kΩ±1% | R2,R32 |
| │ ├─0020 | RA01603 | precise metal-oxide-film resistor-RS 1W | 82KΩ | 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 |
| │ ├─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 | |
| ├─0017 | NF03556 | user manual-RS | JCA22H JET CITY_V1.0 | |
| ├─0018 | NE21047 | label-RS | JCA22H_V1.1 | |
| ├─0019 | NE21046 | label-RS | JCA22H_V1.0 | |
| ├─0020 | NB06922 | carton-RS-CT | JCA22H JET CITY_V1.0 | |
| ├─0021 | NA00270 | sponge-RS | ASHDOWN 140*140*140mm_V1.0 | |
| └─0022 | NA00706 | silk wadding-RS | TPS218NEO-SUB_V1.0 | |

| Rank | Part No | Description | Specification | Insert Location |
|------|---------|-------------|---------------|-----------------|
| PI02567 | | AMPLIFIER | JCA22H_JET CITY_120V_CHINA | |
| ├0001 | MG00063 | screw | M3*12 | |
| ├0002 | MG00489 | screw | M3*20 | |
| ├0003 | MG00511 | screw-RS | M4*37_V1.1 | |
| ├0004 | HA00841 | power cord(America 3P) | LT-202+18A*3C(SVT) 6FT+LT-501 | |
| ├0005 | MG00670 | SCREW-RS | M6*40 | |
| ├0006 | MF00155 | washer-RS | φ18*φ6.5*0.8t | |
| ├0007 | NA00875 | PE bag-RS | 0.05t*820*540mm_V1.0 | |
| ├0008 | NA00858 | PE bag-RS | 0.04t*240*160mm_V1.0 | |
| ├0009 | NI05676 | label-RS-CT-ABS | JC-20 6.35*φ104.43_V1.0 | |
| ├0010 | MD01431 | iron net-RS | 93*389 PH=25*12_V1.1 | |
| ├0011 | NE19827 | label-RS | JET CITY SERIES_V1.0 | |
| ├0012 | NA01048 | silk wadding-RS-CT | JCA100H_V1.0 | |
| ├0013 | HK12252 | faceplate | FOOTSWITCH_JET CITY_JCA50H | |
| │ ├0001 | RA00805 | fixed resistor 1/4W | 68KΩ | |
| │ ├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 | |
| ├0014 | NC03051 | box-RS | JCA20H 23#_V1.2 | |
| ├0015 | HK13065 | faceplate | JCA22H_JET CITY_120V | |
| │ ├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 | 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 | MG00477 | nut | 6mm | |
| │ ├0015 | MG00269 | screw-RS | M3*6 | |
| │ ├0016 | HI00022 | power switch-RS | 4p black frame red key | |
| │ ├0017 | HD00063 | vacuum tube | 12AX7WA | |
| │ ├0018 | HC00008 | AC socket | 3515 A TYPE(RF-2004-C-4.8) | |
| │ ├0019 | HA01138 | signle terminal wiring CF:W08 | 170 red | |
| │ ├0020 | HA00587 | wire | 70mm yellow L5R5 | |
| │ ├0021 | HA00436 | wire | 150mm blue L5R5 | |
| │ ├0022 | HA03943 | signle terminal wiring | 120mm UL1015 18AWG | |
| │ ├0023 | HA02324 | signle terminal wiring | 160mm UL1015 18AWG black | |
| │ ├0024 | HA02382 | wire-RS | 55mm black L5R5 | |
| │ ├0025 | HA04142 | wire | 100mm UL1015 18AWG green roll yellow | |
| │ ├0026 | NI04105 | hole stopper | GA-20 φ16*φ27*10 black | |
| │ ├0027 | MG00042 | screw | M3*10 | |
| │ ├0028 | HD00137 | vacuum tube-RS | EL84 | |
| │ ├0029 | MG00846 | iron pillar-RS | M3*10*0.5PH 15mm_V1.0 | |

| Rank | Part No | Description | Specification | Insert Location |
|---|---|---|---|---|
| ├─0030 | 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 | 1.8KΩ | R3,R15,R23 |
| ├─0003 | RA01596 | precise metal-oxide-film resistor-RS 1W | 100 KΩ | R7,R13,R14,R24,R25,R36 |
| ├─0004 | RA01601 | precise metal-oxide-film resistor-RS 1W | 10KΩ | 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 | 15KΩ | 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 | 1MΩ | R1,R5,R9,R10,R18,R27,R37,R39 |
| ├─0009 | RA01595 | precise metal-oxide-film resistor-RS 1W | 2.2KΩ | 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 | 220KΩ | R6,R21,R43,R44 |
| ├─0012 | RA01539 | 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 | 39KΩ | R16 |
| ├─0015 | RA01604 | precise metal-oxide-film resistor-RS 1W | 4.7KΩ | 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 | 470KΩ | R12,R17,R34 |
| ├─0018 | RA01594 | precise metal-oxide-film resistor-RS 1W | 47KΩ | R26,R42 |
| ├─0019 | RA01881 | precise metal-oxide-film resistor-RS 1W | 68kΩ±1% | R2,R32 |
| ├─0020 | RA01603 | precise metal-oxide-film resistor-RS 1W | 82KΩ | 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 |
| ├─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 | 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 | |
| ├─0031 | MF00189 | washer-RS | φ12*φ7.2*0.4 | |
| ├─0032 | ME00303 | copper nut-RS | φ10*φ7*2.5 | |
| ├─0033 | ME00304 | copper nut-RS | 9.3*φ6.42*φ9.35 T-0664-N | |
| ├─0034 | NI05689 | knob-RS-CT | φ25.4*15_V1.0 | |
| ├─0035 | TF00125 | Output Transformer-RS | OT-JC20 | |
| ├─0036 | HA05417 | wire-RS | 300mm grey LG5RG5 | |
| ├─0037 | 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 |

| 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) | |
| ├0016 | MG00384 | screw | M5*18.5*0.8PH | |
| ├0017 | NE12596 | lable | ASHDOWN 120V_V1.0 | |
| ├0018 | NF03556 | user manual-RS | JCA22H JET CITY_V1.0 | |
| ├0019 | NE21047 | label-RS | JCA22H_V1.1 | |
| ├0020 | NE21046 | label-RS | JCA22H_V1.0 | |
| ├0021 | NB06922 | carton-RS-CT | JCA22H JET CITY_V1.0 | |
| ├0022 | NA00270 | sponge-RS | ASHDOWN 140*140*140mm_V1.0 | |
| └0023 | NA00706 | silk wadding-RS | TPS218NEO-SUB_V1.0 | |

| Rank | Part No | Description | Specification | Insert Location |
|---|---|---|---|---|
| PI02568 | | AMPLIFIER | JCA22H_JET CITY_240V_CHINA | |
| ├─0001 | MG00063 | screw | M3*12 | |
| ├─0002 | MG00384 | screw | M5*18.5*0.8PH | |
| ├─0003 | MG00489 | screw | M3*20 | |
| ├─0004 | MG00511 | screw-RS | M4*37_V1.1 | |
| ├─0005 | HA00866 | power cord (British 3P) | LT-318+0.75*3C(H05VV-F) 6FT+LT-501 | |
| ├─0006 | MG00670 | SCREW-RS | M6*40 | |
| ├─0007 | MF00155 | washer-RS | φ18*φ6.5*0.8t | |
| ├─0008 | NE12598 | lable | ASHDOWN 240V_V1.0 | |
| ├─0009 | NA00875 | PE bag-RS | 0.05t*820*540mm_V1.0 | |
| ├─0010 | NA00858 | PE bag-RS | 0.04t*240*160mm_V1.0 | |
| ├─0011 | NI05676 | label-RS-CT-ABS | JC-20 6.35*φ104.43_V1.0 | |
| ├─0012 | MD01431 | iron net-RS | 93*389 PH=25*12_V1.1 | |
| ├─0013 | NE19827 | label-RS | JET CITY SERIES_V1.0 | |
| ├─0014 | NA01048 | silk wadding-RS-CT | JCA100H_V1.0 | |
| ├─0015 | HK12252 | faceplate | FOOTSWITCH_JET CITY_JCA50H | |
| │ ├─0001 | RA00805 | fixed resistor 1/4W | 68KΩ | |
| │ ├─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 | |
| ├─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 | 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 | MG00477 | nut | 6mm | |
| │ ├─0015 | MG00269 | screw-RS | M3*6 | |
| │ ├─0016 | HI00022 | power switch-RS | 4p black frame red key | |
| │ ├─0017 | HD00009 | glass tube fuse | 1.6A 250V φ5.2*20mm CSA/S/UL/VDE | |
| │ ├─0018 | HD00063 | vacuum tube | 12AX7WA | |
| │ ├─0019 | HC00008 | AC socket | 3515 A TYPE(RF-2004-C-4.8) | |
| │ ├─0020 | HA01138 | signle terminal wiring CF:W08 | 170 red | |
| │ ├─0021 | HA00587 | wire | 70mm yellow L5R5 | |
| │ ├─0022 | HA00436 | wire | 150mm blue L5R5 | |
| │ ├─0023 | HA03943 | 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 |
|------|---------|-------------|---------------|-----------------|
| ├─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 | 1.8KΩ | R3,R15,R23 |
| │ ├─0003 | RA01596 | precise metal-oxide-film resistor-RS 1W | 100 KΩ | R7,R13,R14,R24,R25,R36 |
| │ ├─0004 | RA01601 | precise metal-oxide-film resistor-RS 1W | 10KΩ | 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 | 15KΩ | 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 | 1MΩ | R1,R5,R9,R10,R18,R27,R37,R39 |
| │ ├─0009 | RA01595 | precise metal-oxide-film resistor-RS 1W | 2.2KΩ | 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 | 220KΩ | R6,R21,R43,R44 |
| │ ├─0012 | RA01539 | 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 | 39KΩ | R16 |
| │ ├─0015 | RA01604 | precise metal-oxide-film resistor-RS 1W | 4.7KΩ | 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 | 470KΩ | R12,R17,R34 |
| │ ├─0018 | RA01594 | precise metal-oxide-film resistor-RS 1W | 47KΩ | R26,R42 |
| │ ├─0019 | RA01881 | precise metal-oxide-film resistor-RS 1W | 68kΩ±1% | R2,R32 |
| │ ├─0020 | RA01603 | precise metal-oxide-film resistor-RS 1W | 82KΩ | 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 |
| │ ├─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 |

| Rank | Part No | Description | Specification | Insert Location |
|---|---|---|---|---|
| │ │ ├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 | |
| ├0017 | NC03051 | box-RS | JCA20H 23#_V1.2 | |
| ├0018 | NF03556 | user manual-RS | JCA22H JET CITY_V1.0 | |
| ├0019 | NE21047 | label-RS | JCA22H_V1.1 | |
| ├0020 | NE21046 | label-RS | JCA22H_V1.0 | |
| ├0021 | NB06922 | carton-RS-CT | JCA22H JET CITY_V1.0 | |
| ├0022 | NA00270 | sponge-RS | ASHDOWN 140*140*140mm_V1.0 | |
| └0023 | NA00706 | silk wadding-RS | TPS218NEO-SUB_V1.0 | |

| Rank | Part No | Description | Specification | Insert Location |
|---|---|---|---|---|
| PI02569 | | AMPLIFIER | JCA22H_JET CITY_240V_CHINA | |
| ├─0001 | MG00063 | screw | M3*12 | |
| ├─0002 | MG00384 | screw | M5*18.5*0.8PH | |
| ├─0003 | MG00489 | screw | M3*20 | |
| ├─0004 | 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 | |
| ├─0007 | MF00155 | washer-RS | φ18*φ6.5*0.8t | |
| ├─0008 | NE12598 | lable | ASHDOWN 240V_V1.0 | |
| ├─0009 | NA00875 | PE bag-RS | 0.05t*820*540mm_V1.0 | |
| ├─0010 | NA00858 | PE bag-RS | 0.04t*240*160mm_V1.0 | |
| ├─0011 | NI05676 | label-RS-CT-ABS | JC-20 6.35*φ104.43_V1.0 | |
| ├─0012 | MD01431 | iron net-RS | 93*389 PH=25*12_V1.1 | |
| ├─0013 | NE19827 | label-RS | JET CITY SERIES_V1.0 | |
| ├─0014 | NA01048 | silk wadding-RS-CT | JCA100H_V1.0 | |
| ├─0015 | HK12252 | faceplate | FOOTSWITCH_JET CITY_JCA50H | |
| │ ├─0001 | RA00805 | fixed resistor 1/4W | 68KΩ | |
| │ ├─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 | |
| ├─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 | 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 | MG00477 | nut | 6mm | |
| │ ├─0015 | MG00269 | screw-RS | M3*6 | |
| │ ├─0016 | HI00022 | power switch-RS | 4p black frame red key | |
| │ ├─0017 | HD00009 | glass tube fuse | 1.6A 250V φ5.2*20mm CSA/S/UL/VDE | |
| │ ├─0018 | HD00063 | vacuum tube | 12AX7WA | |
| │ ├─0019 | HC00008 | AC socket | 3515 A TYPE(RF-2004-C-4.8) | |
| │ ├─0020 | HA01138 | signle terminal wiring CF:W08 | 170 red | |
| │ ├─0021 | HA00587 | wire | 70mm yellow L5R5 | |
| │ ├─0022 | HA00436 | wire | 150mm blue L5R5 | |
| │ ├─0023 | HA03943 | 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 | |
| │ ├─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 | |

| Rank | Part No | Description | Specification | Insert Location |
|---|---|---|---|---|
| ├─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 | 1.8KΩ | R3,R15,R23 |
| │ ├─0003 | RA01596 | precise metal-oxide-film resistor-RS 1W | 100 KΩ | R7,R13,R14,R24,R25,R36 |
| │ ├─0004 | RA01601 | precise metal-oxide-film resistor-RS 1W | 10KΩ | 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 | 15KΩ | 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 | 1MΩ | R1,R5,R9,R10,R18,R27,R37,R39 |
| │ ├─0009 | RA01595 | precise metal-oxide-film resistor-RS 1W | 2.2KΩ | 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 | 220KΩ | R6,R21,R43,R44 |
| │ ├─0012 | RA01539 | 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 | 39KΩ | R16 |
| │ ├─0015 | RA01604 | precise metal-oxide-film resistor-RS 1W | 4.7KΩ | 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 | 470KΩ | R12,R17,R34 |
| │ ├─0018 | RA01594 | precise metal-oxide-film resistor-RS 1W | 47KΩ | R26,R42 |
| │ ├─0019 | RA01881 | precise metal-oxide-film resistor-RS 1W | 68kΩ±1% | R2,R32 |
| │ ├─0020 | RA01603 | precise metal-oxide-film resistor-RS 1W | 82KΩ | 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 |
| │ ├─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 | 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 | |
| ├─0017 | NC03051 | box-RS | JCA20H 23#_V1.2 | |
| ├─0018 | NF03556 | user manual-RS | JCA22H JET CITY_V1.0 | |
| ├─0019 | NE21047 | label-RS | JCA22H_V1.1 | |
| ├─0020 | NE21046 | label-RS | JCA22H_V1.0 | |
| ├─0021 | NB06922 | carton-RS-CT | JCA22H JET CITY_V1.0 | |
| ├─0022 | NA00270 | sponge-RS | ASHDOWN 140*140*140mm_V1.0 | |
| └─0023 | NA00706 | silk wadding-RS | TPS218NEO-SUB_V1.0 | |

| Rank | Part No | Description | Specification | Insert Location |
|---|---|---|---|---|
| PI02570 | | AMPLIFIER | JCA22H_JET CITY_100V_CHINA | |
| ├0001 | MG00063 | screw | M3*12 | |
| ├0002 | MG00384 | screw | M5*18.5*0.8PH | |
| ├0003 | MG00489 | screw | M3*20 | |
| ├0004 | MG00511 | screw-RS | M4*37_V1.1 | |
| ├0005 | MG00670 | SCREW-RS | M6*40 | |
| ├0006 | MF00155 | washer-RS | φ18*φ6.5*0.8t | |
| ├0007 | 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 | |
| ├0010 | NI05676 | label-RS-CT-ABS | JC-20 6.35*φ104.43_V1.0 | |
| ├0011 | MD01431 | iron net-RS | 93*389 PH=25*12_V1.1 | |
| ├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 | 68KΩ | |
| │ ├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 | 1.8KΩ | R3,R15,R23 |
| │ ├─0003 | RA01596 | precise metal-oxide-film resistor-RS 1W | 100 KΩ | R7,R13,R14,R24,R25,R36 |
| │ ├─0004 | RA01601 | precise metal-oxide-film resistor-RS 1W | 10KΩ | 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 | 15KΩ | 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 | 1MΩ | R1,R5,R9,R10,R18,R27,R37,R39 |
| │ ├─0009 | RA01595 | precise metal-oxide-film resistor-RS 1W | 2.2KΩ | 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 | 220KΩ | R6,R21,R43,R44 |
| │ ├─0012 | RA01539 | 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 | 39KΩ | R16 |
| │ ├─0015 | RA01604 | precise metal-oxide-film resistor-RS 1W | 4.7KΩ | 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 | 470KΩ | R12,R17,R34 |
| │ ├─0018 | RA01594 | precise metal-oxide-film resistor-RS 1W | 47KΩ | R26,R42 |
| │ ├─0019 | RA01881 | precise metal-oxide-film resistor-RS 1W | 68kΩ±1% | R2,R32 |
| │ ├─0020 | RA01603 | precise metal-oxide-film resistor-RS 1W | 82KΩ | 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 |

| 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 | 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 | |
| │ ├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) | |
| ├0016 | NC03051 | box-RS | JCA20H 23#_V1.2 | |
| ├0017 | NF03556 | user manual-RS | JCA22H JET CITY_V1.0 | |
| ├0018 | NE21047 | label-RS | JCA22H_V1.1 | |
| ├0019 | NE21046 | label-RS | JCA22H_V1.0 | |
| ├0020 | NB06922 | carton-RS-CT | JCA22H JET CITY_V1.0 | |
| ├0021 | NA00270 | sponge-RS | ASHDOWN 140*140*140mm_V1.0 | |
| ├0022 | NA00706 | silk wadding-RS | TPS218NEO-SUB_V1.0 | |
| ├0023 | NE20507 | label-RS | JCA_V1.0 | |
| └0024 | HA04366 | wire-RS | LF-821+0.75*3C(VCTF)1.89M+LF-501 | |