



INSTRUCTION MANUAL

Turbine motor type hot-air gun system. Provides non-pressurized hot air to heat targeted areas evenly and effectively.

Thank you for purchasing Aoyue 8032/8032A++ Hand-held hot air gun.

It is important to read the manual before using the equipment.

Please keep manual in accessible place for future reference.

Manufacturer:

AOYUE TONGYI INTERNATIONAL LIMITED

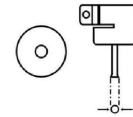
Jishui Industrial Zone, Nantou, Zhongshan City,
Guangdong Province, P.R.China

<http://www.aoyue.com>

AIR NOZZLES

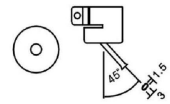
Sold Separately

Straight Single



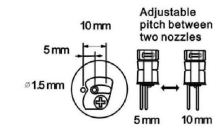
Nozzle Model	Nozzle Size, ϕ (mm)
1124	2.5
1130	4.4
1194	6
1195	8
1196	7
1197	9
1198	12

Bent Single



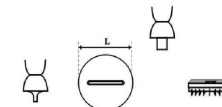
Nozzle Model	1142
Nozzle Model	1142

Dual Single Adjustable



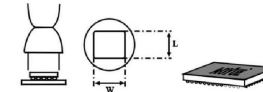
Nozzle Model	1325
Nozzle Model	1325

Single In Line Package



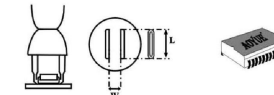
Nozzle Model	IC Package Size	Nozzle Length (mm)
1191	SIP 25L	26
1192	SIP 50L	52.5

Ball Grid Array



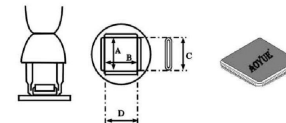
Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)	
		W	L
1010	BGA 9x9	10	10
1313	BGA 12x12	13	13
1616	BGA 15x15	16	16
1919	BGA 18x18	19	19
2828	BGA 27x27	28	28
3636	BGA 35x35	36	36
3939	BGA 38x38	39	39
4141	BGA 40x40	41	41

Small Outline J-Lead



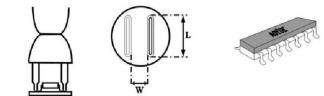
Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)	
		L	W
1183	SOJ 15x8	16	8
1184	SOJ 18x8	19	10
1214	SOJ 10x26	25.9	12

Plastic Leaded Chip Carrier



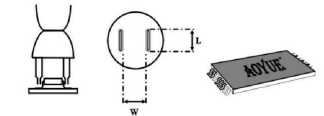
Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)			
		A	B	C	D
1135	PLCC 17.5x17.5 (44pins)	18.5	18.5	15	15
1136	PLCC 20x20 (52pins)	21	21	19	19
1137	PLCC 25x25 (68pins)	26	26	24	24
1138	PLCC 30x30 (84pins)	31	31	29	29
1139	PLCC 7.3x12.5 (18pins)	9	14	69	69
1140	PLCC 11.5x11.5 (28pins)	13	13	15	10
1141	PLCC 11.5x14 (32pins)	15	13	15	10
1188	PLCC 9x9 (20pins)	11	11	10	10
1189	PLCC 34x34 (100pins)	36.5	36.5	33.5	33.5

Small-Outline Package



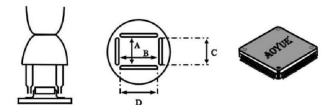
Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)	
		L	W
1131	SOP 4.4x10	10	4.8
1132	SOP 5.6x13	15	5.7
1133	SOP 7.5x15	16	7.2
1134	SOP 7.5x18	19	7.2
1257	SOP 11x21	21	11.7
1258	SOP 7.6x12.7	11.7	8.2
1259	SOP 1.3x28	29	13.5
1260	SOP 8.6x18	19	8.7

Thin Small-Outline



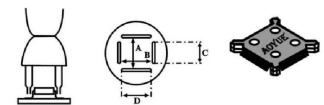
Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)	
		L	W
1185	TSOL 13x10	10	11.9
1187	TSOL 18.5x8	10	18.5
1186	TSOL 18x10	11.7	18.2

Quad Flat Pack



Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)			
		A	B	C	D
1125	QFP 10x10	10.2	10.2	10	10
1126	QFP 14x14	15.2	15.2	15	15
1127	QFP 17.5x17.5	19.2	19.2	19	19
1128	QFP 14x20	15.2	21.2	15	21
1229	QFP 28x28	29.5	29.7	29	29
1215	QFP 42.5x42.5	42.5	42.5	40	40
1261	QFP 20x20	20.2	20.2	21	21
1262	QFP 12x12	12.2	12.2	12	12
1263	QFP 28x40	27.7	39.7	29	39
1264	QFP 40x40	40.2	40.2	39	39
1265	QFP 32x32	32.2	32.2	31	31

Bumpered Quad Flat Pack



Nozzle Model	IC Package Size (mm)	Nozzle Size (mm)			
		A	B	C	D
1180	BQFP 17x17	18.2	18.2	13.6	13.6
1181	BQFP 19x19	19.2	19.2	16	16
1203	BQFP 35x35	35.2	35.2	30.6	30.6
1182	BQFP 24x24	24.2	24.2	21	21

TEMPERATURE CHART FOR 8032:

Measure Point 5mm from the nozzle.

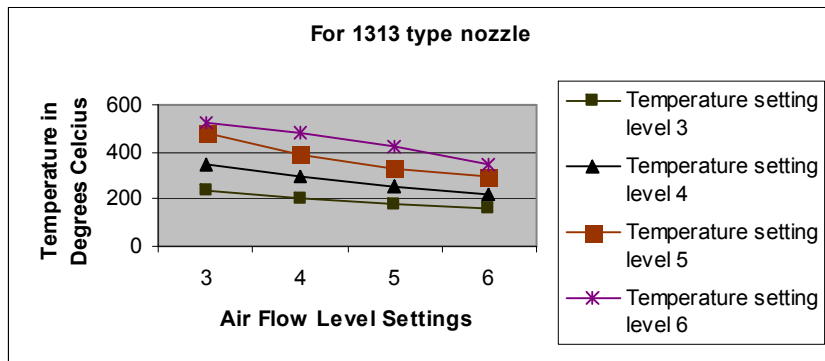
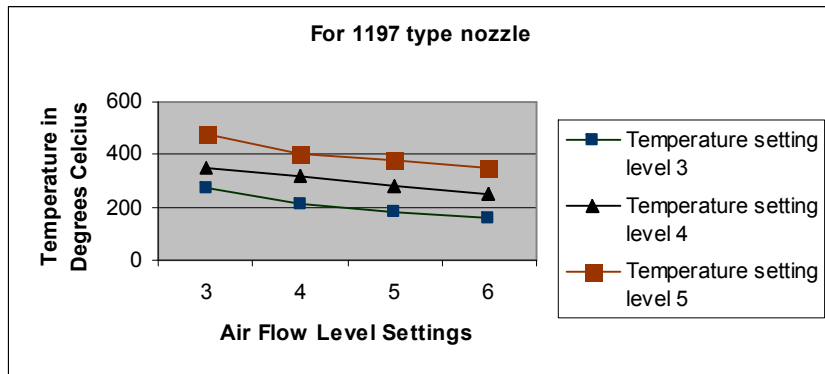
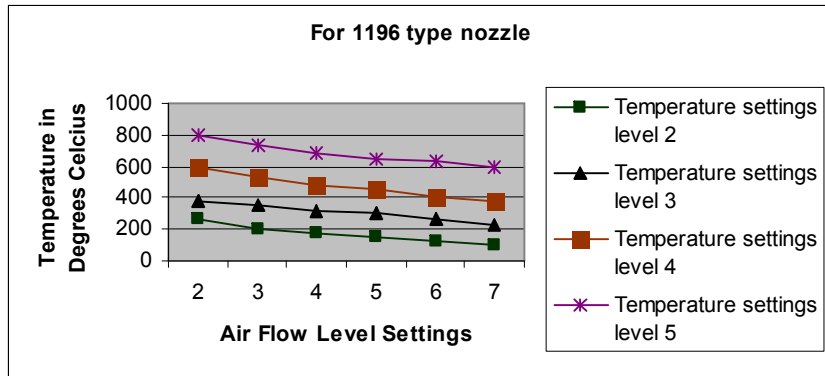


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SPECIFICATIONS

MAIN STATION	
Power Input :	available in 110V / 220V
Dimensions:	65(w) x 252(L) mm
Max Power Consumption:	550W
Temperature Range:	100°C - 480°C
Heating Element	Metal Heating Core
Fan Type:	Turbine Motor
Air Capacity:	35 l /min (max)

OPERATING GUIDELINES

After using the unit:

1. After reworking, turn the air volume to max (99) and the temperature to the lowest settings.
2. Let the unit's temperature reach 99 on the display or cool enough to touch before turning off the unit, this is to protect the heating element from wearing out too early.
3. Turn the Power Switch off

Replacing the Heating Element

1. Remove the screws located on the base of the nozzle.
2. Slide out the nozzle.
3. Detach heating element from its socket.
4. Place the new heating element to the socket..

Caution: Handle heating elements with care. Never rub the heating element's wire,

5. Assemble the Handle in the reverse order of disassembly .
6. Check all connections properly.

Note:

For 8032A++ the heating element's thermal sensor are the red and blue wires , The two wires should have the same position arrangement as the old heating element.

if the position of the red and blue wire is not the same , detach these two wire and rearrange so that it is the same as the old heating element.

OPERATING GUIDELINES

To Remove SMD ICs:

1. Plug the power cord into the power supply.
2. Turn the power switch on.
3. Display will show the current temperature, pressing the up and down temperature settings button will switch the display to the set temperature, after a few seconds it would revert back to displaying the actual temperature.
4. When the airflow is adjusted the display will show the set air flow , it would revert back to the actual temperature after a few seconds.
5. Adjust the air flow and temperature , wait for the temperature to stabilize for 30 to 60 seconds.
6. For your reference, we recommend you to adjust the temperature around 300 to 350°C (For 8032 see reference figure), and an air pressure of around 15—30 (For 8032 set to 1-3).
7. Hold the unit so that the nozzle is located over the IC. Move around the leads of the IC until the solder melts.
8. Pick up the IC using a vacuum pick up pen or tweezers
9. Allow ICs and PCB to cool down.

To Solder SMD ICs:

1. Apply solder paste to the PCB.
2. Carefully place the IC on the PCB, use tweezers to properly align the legs of the IC to leads at the PCB .
3. Preheat PCB and IC together, use a pre-heater for best results .
4. Wait for the PCB temperature to reach 180 degrees Celsius.
5. Turn on the unit and set the air pressure to 15(For 8032 set to 1-3).
6. Set hot-air temperature to 350.
7. Position the nozzle on top of the IC leads, Heat IC's leads evenly.
8. Wait for the solder paste to be activated and meld the IC with the PCB.

FUNCTIONS AND FEATURES

- ◆ Swiss technology, a breakthrough from traditional air pump type reworking system. Incorporates high speed blower to produce even flowing air to achieve efficient hot air for reworking on SMT devices.
- ◆ Specially applicable for reworking mobile phone ICs, BGA, SMD and other electronic parts.
- ◆ Designed to be handy and small which saves up valuable work space environment.
- ◆ Electro-Static safe design to prevent damaging sensitive ICs PCB from static and leak electricity
- ◆ Over-heat protection, heating element auto shuts off when temperature rises over the maximum limit to protect the system and its components.

For 8032A++ only:

- ◆ Microprocessor controlled system provides precision control of temperature and air volume with a wide range of adjustment.

Replacement Heating Elements

NO.	NAME/ SPECIFICATION
A1143	100V/25W Heating Element
A1144	110V/250W Heating Element
A1145	120V/250W Heating Element
A1146	220V/240V/250W Heating Element

SAFETY PRECAUTION

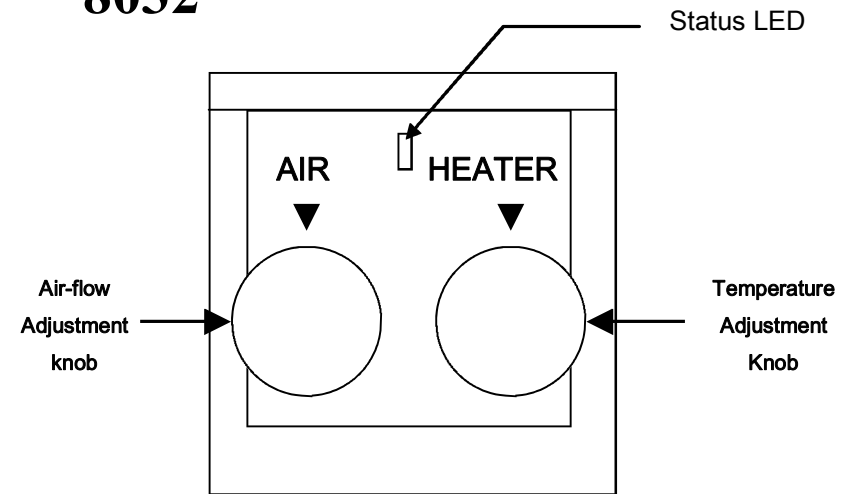


CAUTION: Misuse may cause extensive damage to the unit.
For your own safety, be sure to comply with the following precautions.

- ◆ Check every component after opening the package whether everything is in good working condition. If there are any damages suspected, don't use the item and contact your dealer.
- ◆ When moving the unit to another location, be sure to turn off the power switch and remove the plug.
- ◆ Do not strike or subject to physical shock the main unit, hot air gun, soldering iron or any parts of the system. Use carefully and lightly so as not to damage any parts.
- ◆ Be sure the unit is grounded.
- ◆ Always connect power to a grounded receptacle.
- ◆ Caution-High Temperature Operation
- ◆ After use, be sure to cool the unit.
- ◆ Do not disassemble the unit.
- ◆ Disconnect the plug when unit is not in use for a long time.
- ◆ When the power cord is connected into the power supply, the unit has a little flow of electricity, even if the power switch is in off position.
- ◆ Do not use the unit near ignitable gases, paper or other inflammable materials, both the nozzle and the heated air are extremely hot and can cause painful burns, never touch the heater pipe or allow the heated air to blow against your skin.

PANEL GUIDE

8032



8032A++

