HAKKO

HAKKO FR-802

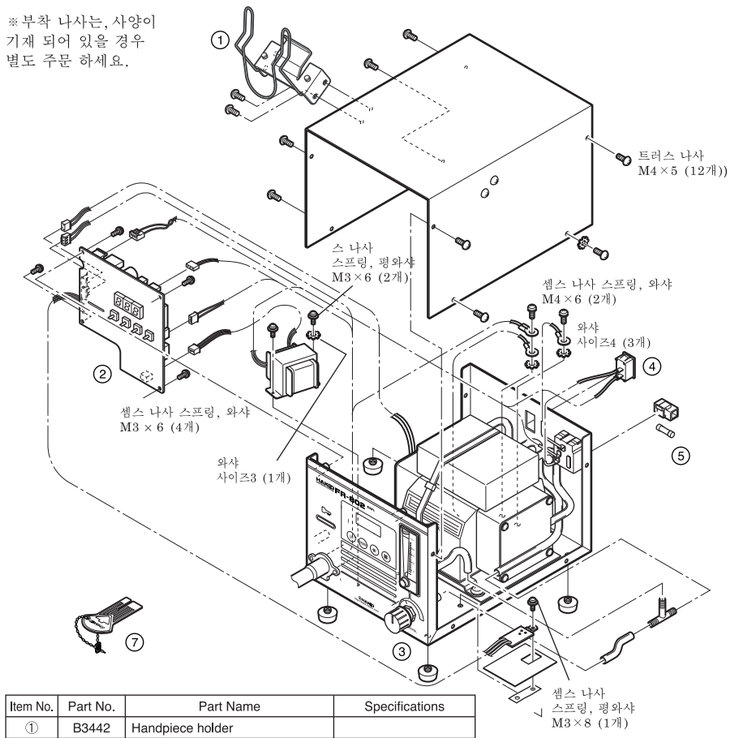
SMD REWORK STATION

SMD 리워크 스테이션

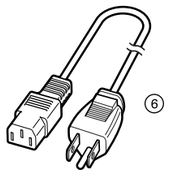
보수 · 점검

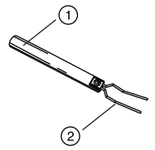
1. 부품 리스트(스테이션)

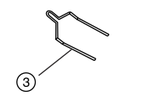
※부착 나사는, 사양이 기재 되어 있을 경우 별도 주문 하세요.



Item No.	Part No.	Part Name	Specifications
①	B3442	Handpiece holder	
②	B3378	P.W.B./for temperature control	100~120V, with triac
	B3379	P.W.B./for temperature control	220~240V, with triac
③	B1028	Knob	With screw
④	B1084	Power switch	
⑤	B2468	Fuse/125V-5A	100~120V
	B1258	Fuse/250V-3.15A (S)	220~240V
⑥	B2419	Power cord, 3 wired cord & American plug	U.S.A.
	B2421	Power cord, 3 wired cord but no plug	
	B2422	Power cord, 3 wired cord & BS plug	India
	B2424	Power cord, 3 wired cord& European plug	220V KTL, 230V CE
	B2425	Power cord, 3 wired cord & BS plug	230V CE U.K.
	B2426	Power cord, 3 wired cord & Australian plug	
	B2436	Power cord, 3 wired cord & Chinese plug	China
	B3508	Power cord, 3 wired cord & American plug	
⑦	B2972	Control card	







● **Optional Parts**

Item No.	Part No.	Part Name	Specifications
①	B1438	FP pick-up	With 1pc. of pick-up wire (S) &(L)
②	B1439	FP pick-up wire (S)	
③	B1440	FP pick-up wire (L)	

HAKKO

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구입문의 및 A/S

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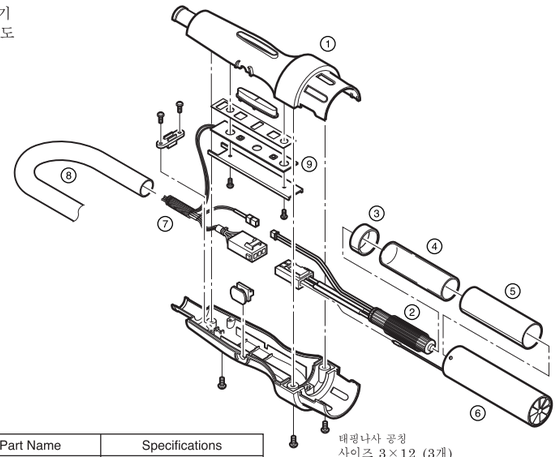
2. 부품리스트 (열풍기 부)

※부착 나사는, 사양이 기재 되어 있을 경우 별도 주문 하세요.



Item No.	Part No.	Part Name	Specifications
①	B3010	Handle	With screws
②	A1523	Heating element	100 - 120V
	A1524	Heating element	220 - 240V
③	B3009	Mica pipe B	
④	B2995	Quartz glass pipe	For support heating element
⑤	B3008	Mica pipe A	
⑥	B3095	Pipe	
⑦	B3014	Cord assembly	With silicone tube
⑧	B1188	Silicone hose	
⑨	B3011	P.W.B./for handle	

2. 유지보수/ 점검방법

● 히터 · 센서 끊김

⚠ 주의

히터 교환 작업은 위험하오니 반드시 전원을 차단하고 하기의 순서에 따라서 실시 하세요.

A. 인두부를 엽니다.

1. 인두부를 고정하고 있는 3개의 나사를 풉니다. (그림1)
2. 튜브를 아래로 당깁니다.
3. 파이프를 그림의 돌기에서 빼냅니다.

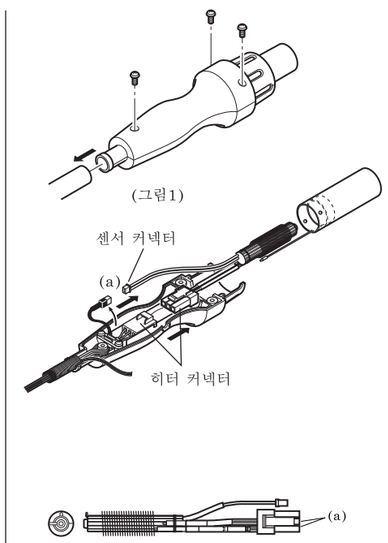
⚠ 주의

파이프 안에는 석영유리와 단열재가 들어있습니다. 이것들을 떨어뜨리거나 분실하지 않도록 하여 주십시오.

4. 히터 · 센서 커넥터를 떼어내고, 히터를 뽑아냅니다.

B. 저항치를 측정합니다.

1. 커넥터의 단자부(a) 센서의 저항치를 측정합니다. 정상치는 0Ω입니다.
2. 커넥터의 단자부(b)히터의 저항치를 측정합니다. 정상치는 약 33Ω(±10%)(100_120V) 또는 85Ω(±10%)(220_240V)입니다. (상온시) 저항치가 이상인 경우는, 부품을 교환해 주십시오.
(교환방법은 교환부품에 딸린 설명서를 참조해 주십시오.)



3. 트러블 발생시

⚠ 경고

● 내부점검 또는 부품교환시 전원플러그는 반드시 뽑아 주십시오. 감전될 우려가 있습니다.

● 전원스위치를 넣어도 동작되지 않는다.

점검 : 퓨즈가 끊어져 있지 않습니까?
대처 : 퓨즈가 끊어진 원인을 조사한 다음 퓨즈를 교환합니다. 원인을 알 수 없는 경우라도 퓨즈를 교환해 주십시오. 그 후 또다시 퓨즈가 끊어질 경우에는 수리를 위해 본체를 보내 주십시오.

● 센서 에러 S-E 가 점멸한다.

점검 : 센서는 끊어져 있지 않습니까?
대처 : 센서 단선의 조사방법을 보아 주십시오.저항치가 ∞일 경우, 부품을 교환하십시오.

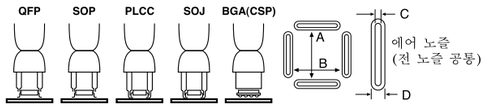
● 히터 에러 H-E 가 점멸한다.

점검 : 히터는 끊어져 있지 않습니까?
대처 : 히터의 저항치를 측정 합니다. 정상치는 약 33Ω(±10%)(100-120V) 또는 85Ω(±10%)(220-240V)입니다. (상온시) 저항치가 이상인 경우는, 부품을 교환해 주십시오.

4. 옵션

⚠ 주의

품명/ 사양의 사이즈는, IC패키지의 크기를 표시 하고 있습니다.

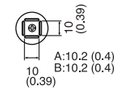


Unit: mm

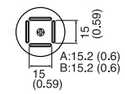
	C0.8 D1.8	C1.0 (0.04) D2.0 (0.08)	C0.8 (0.03) D2.0 (0.08)
No.	A1125B~A1129B A1131~A1141B A1180B~A1189 A1203B~A1265BB	A1191	A1192

A1124B Single ø2.5 (0.09)

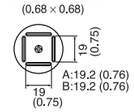
A1125B QFP 10 × 10 (0.39 × 0.39)



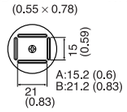
A1126B QFP 14 × 14 (0.55 × 0.55)



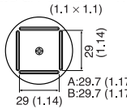
A1127B QFP 17.5 × 17.5 (0.68 × 0.68)



A1128B QFP 14 × 20 (0.55 × 0.78)

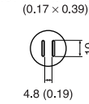


A1129B QFP 28 × 28 (1.1 × 1.1)

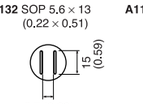


A1130 Single ø4.4 (0.17)

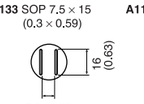
A1131 SOP 4.4 × 10 (0.17 × 0.39)



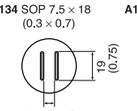
A1132 SOP 5.6 × 13 (0.22 × 0.51)



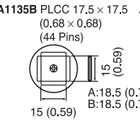
A1133 SOP 7.5 × 15 (0.3 × 0.59)



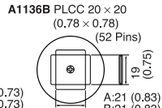
A1134 SOP 7.5 × 18 (0.3 × 0.7)



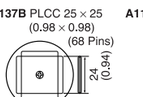
A1135B PLCC 17.5 × 17.5 (0.68 × 0.68) (44 Pins)



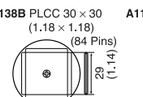
A1136B PLCC 20 × 20 (0.78 × 0.78) (52 Pins)



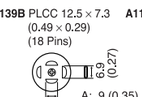
A1137B PLCC 25 × 25 (0.98 × 0.98) (68 Pins)



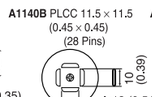
A1138B PLCC 30 × 30 (1.18 × 1.18) (84 Pins)



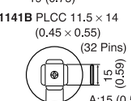
A1139B PLCC 12.5 × 7.3 (0.49 × 0.29) (18 Pins)



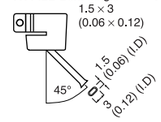
A1140B PLCC 11.5 × 11.5 (0.45 × 0.45) (28 Pins)



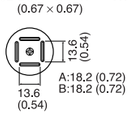
A1141B PLCC 11.5 × 14 (0.45 × 0.55) (32 Pins)



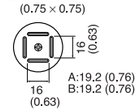
A1142B Bent Single 1.5 × 3 (0.06 × 0.12)



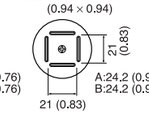
A1180B BQFP 17 × 17 (0.67 × 0.67)



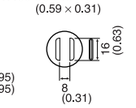
A1181B BQFP 19 × 19 (0.75 × 0.75)



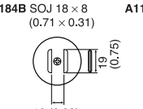
A1182B BQFP 24 × 24 (0.94 × 0.94)



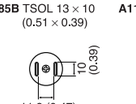
A1183 SOJ 15 × 8 (0.59 × 0.31)



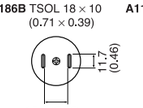
A1184B SOJ 18 × 8 (0.71 × 0.31)



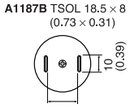
A1185B TSOL 13 × 10 (0.51 × 0.39)



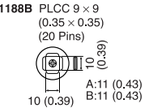
A1186B TSOL 18 × 10 (0.71 × 0.39)



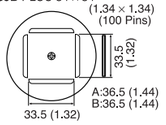
A1187B TSOL 18.5 × 8 (0.73 × 0.31)



A1188B PLCC 9 × 9 (0.35 × 0.35) (20 Pins)

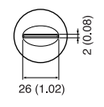


A1189B PLCC 34 × 34 (1.34 × 1.34) (100 Pins)

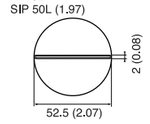


A1190 Dual Single 2.5 × 9.5 Pitch (0.09 × 0.37)

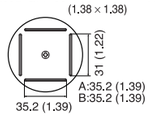
A1191 SIP 25L (0.98)



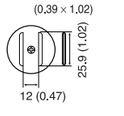
A1192 SIP 50L (1.97)



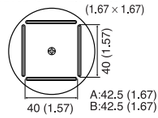
A1203B QFP 35 × 35 (1.38 × 1.38)



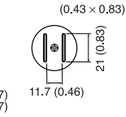
A1214B SOJ 10 × 26 (0.39 × 1.02)



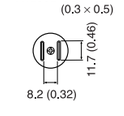
A1215B QFP 42.5 × 42.5 (1.67 × 1.67)



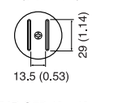
A1257B SOP 11 × 21 (0.43 × 0.83)



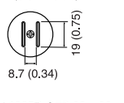
A1258B SOP 7.6 × 12.7 (0.3 × 0.5)



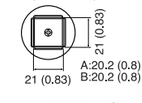
A1259B SOP 13 × 28 (0.51 × 1.1)



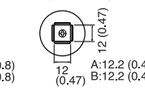
A1260B SOP 8.6 × 18 (0.34 × 0.71)



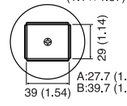
A1261B QFP 20 × 20 (0.78 × 0.78)



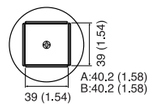
A1262B QFP 12 × 12 (0.47 × 0.47)



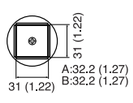
A1263B QFP 28 × 40 (1.1 × 1.57)



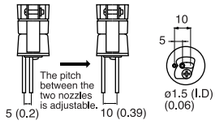
A1264B QFP 40 × 40 (1.57 × 1.57)



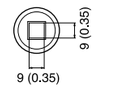
A1265B QFP 32 × 32 (1.26 × 1.26)



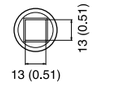
A1325 Dual Single ø1.5 × 5-10 (0.06 × 0.2-0.39) Adjustable Pitch



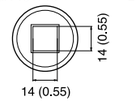
A1470 BGA 8 × 8



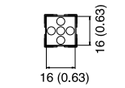
A1471 BGA 12 × 12



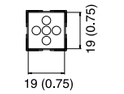
A1472 BGA 13 × 13



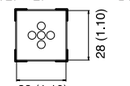
A1473 BGA 15 × 15



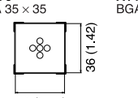
A1474 BGA 18 × 18



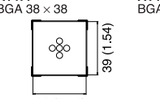
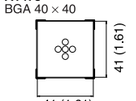
A1475 BGA 27 × 27



A1476 BGA 35 × 35



A1477 BGA 38 × 38



A1478 BGA 40 × 40