
T12 solder station - Hakko 936 - CAIXA CARA

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Les puntes del soldador petit de JBC son de la mateixa mida (diam 3,3 mm i 5 mm més llargs de la canya foradada)

**el soldador complet de la foto val 1,90€!!!!
el controlador senzill de la foto val 3,90€!!!!**

Els de Aliexpress tambe ho tenen, pero lo mes important (crec) es que s'hi puguin posar puntes de JBC pues aguanten perfectament mes de 400 graus son intercambiables i duren molt

ARTICLES

T12 - solder station vs JBC mini

T12 - solder station - Hakko 936

T12 - HAKKO (907ESD) and SOLOMON (SL-10/30)

T12 - I2C SPI OLED Display

T12 - STC15F204 NRF24L01 wireless UART

El 2017 vaig comprar tots els tipus de kits i vaig fer un estudi exhaustiu d'aquest soldador, crec que inventat per WELLER, amb punta intercanviable subjectada per una funda amb femella roscada, i amb resistència de 24V.. temperatura regulada amb PTC o thermocouple i sensor de moviment (vibration sensor) que han escampat mil marques xineses. El llapis soldador Weller porta un DIN 240° mascle roscat (com el micro PTT) i els HAKKO, BAKU, etc xinesos porten un DIN 240° femella roscat (com el micro PTT)..

Reply #112 on: June 19, 2015, 06:23:54 PM »

Hi Folks..I purchased a Hobby King Yihua 936, obviously there are faults that most are fixed, but, looking at the transformer, there is no way it's more than 35~40VA.

My question, I am using this as a 2nd station and building a complete DIY 936 clone OEM PCB circuit and non OEM parts etc. I need suitable transformers, for these units. I read the 936 is ~ 60VA transformer, I can find a 50VA to fit the transformer mount posts (of the case) but suggest a 73~75VA unit (or even a 100VA) would be more suited.

I'm a cheap arsed but know the need to pay for a decent iron/tips/controller PCB and transformer so any advice welcomed (even considering buying a proper Hakko 907M iron, full price, but where?).

« Reply #113 on: June 23, 2015, 06:08:58 PM »

Hakko 936 Schematic: http://dalincom.ru/datasheet/HAKKO_936_schematic.pdf

Ok purchased an original C1143 iron, Hakko 907, from RS components, plus some OEM tips, but noted the iron or packing does not state "ESD safe". Looking at the iron, its definitely Hakko but was wondering...is this iron indeed for their 936ESD stations or is it one of their older white version versions? The iron is white!

Also I'm assuming the Hakko 936 station is a 50VA transformer?

Finally.... Ok made some Hakko OEM copy PCBs and ordered a front panel and new case from fleabay as well as a host of parts, including new transformers. I now have a 936 station OEM copy (although I'm using a 75VA 24V 2ndry transformer) and an original 907 iron (from RS) including a handful of OEM Hakko tips. Also changed the main power switch to a neon type and put in proper M205 cartridge fuses on this main switch, with a new sub PCB for this. Also put M205 cartridge fuse on the main PCB for 24V (transformer secondary) pwr to PCB. Cannot think for the life of me why Hakko didn't originally do this.

Also doing the "on power LED mod". Forgive my photographic skills!

This new system heats much much faster than the Yihua (25~30 secs or less with 3.2mm chisel tip) and has no problems doing big tasks and has much better thermal stability. Pretty much because the Yihua transformer was ~35VA! The Yihua heater tip is a nichrome wire in a ceramic tube and the ceramic end cracked on mine and is showing nichrome heater wire...barely ~1mm away from the tip metal (ground). Not good.

Also I found the Yihua uses a non std thermocouple temp feedback (mentioned before by others) which is not the same as the Hakko 907 iron PTC feedback. Funny enough I found a place in Aust selling very good copies of the 907 iron with the same ceramic heater and PTC feedback as the Hakko for ~\$20, not bad indeed! Now I can change irons and keep calibration, I've ordered a thermocouple tip temp calibrator),

Just doing the 2nd station now but using a 50VA transformer for the 2nd one.

One for the safety inspectors..... my Yihua soldering station they wired the active/neutral wrong and switch/fused the wrong line. The Active (Line) was the blue wire, the Neutral (N) was the brown wire (it should be the other way round the moulded plug is made/wired wrong). The main switch also switched and fused this brown (Neutral) wire. At least the earth was correct! Safety standards.....Ahhh yes China has a long way to go!

IMG_2684-small.jpg (56.75 kB, 800x533 - viewed 1924 times.)

IMG_2685-small.jpg (84.11 kB, 800x533 - viewed 903 times.)

IMG_2688 small.jpg (67.38 kB, 800x533 - viewed 1096 times.)

https://en.wikipedia.org/wiki/Appliance_classes

I changed my switch to an SS21 double pole single throw (neon) as someone else did in this thread. But that was for visual purposes.

edit:

ahh looks as if the Argentine electrical plug is wired opposite to the Australian ..quote wiki ..."The most important

difference from the Australian plug is that the Argentinean plug is wired with the line and neutral contacts reversed."

https://en.wikipedia.org/wiki/AC_power_plugs_and_sockets

24V soldering iron Control circuit heat control to 450 degrees

Electronics Projects, 24V soldering iron Control circuit heat control to 450 degrees article "power electronic projects," tagged with

Advertisement

Most of us use the soldering iron to heat set "936" I'm not giving a lot of a certain brand because you have some form of cyber BEB hakko 936 936 936, etc... for some reason the number is always the same :) bt137 triac control circuit based on the opamp lm324 heat soldering iron 24v control circuit supply 24V AC power control is done via an additional power source received via a temperature between 450 degrees for 200...do not need to control.

Dimmer 24V soldering iron

source: radiokot.ru/lab/analog/50/ alternative link: 24v-soldering-iron-control-circuit-heat-control-to-450-degrees.rar
alternative link2

CSI Deluxe 60 Watt Soldering Station with Digital Display
60 watt microprocessor controlled Soldering Station with 3 presets and LCD display

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Soldering Station Features:

60 Watt Dual Core Ceramic Heater
302°F to 842°F (150°C to 450°C) Temperature Range

Versatile easy to read Liquid Crystal Display
3 preset & user definable temperature settings
Automatically remembers previous temperature setting
Display in Fahrenheit or Celsius Scale
3 foot cord length from station to iron tip
Includes (1) KD-M-0.8D 0.8mm Chisel Tip
Broad selection of replacement tips available
1 year limited warranty from Circuit Specialists, Inc.

Soldering Station Users Manual

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Finally, the CSI Premier 75 includes a tip cleaning accessory that is vastly superior to the typical wet sponge system. The tip cleaning pot is filled with a rosin reservoir underneath a pad of brass shavings. Superior tip cleaning reduces tip corrosion, reduces impurity build up on the tip and helps maintain effective heat transfer through the tip resulting in a cleaner, faster & more precise soldering job. Using a brass shaving style tip cleaner is will not reduce the heat at your tip like a traditional wet sponge tip cleaning system. Of course, the tips are grounded to help prevent damage to components due to static build up and, as a result of customer demand, this model may be set to display temperatures in Celsius or Fahrenheit scale.

Just dip the tip into the rosin flux and rotate it to coat the tip. Then simply wipe off the tip with the brass ball and you are ready to go!