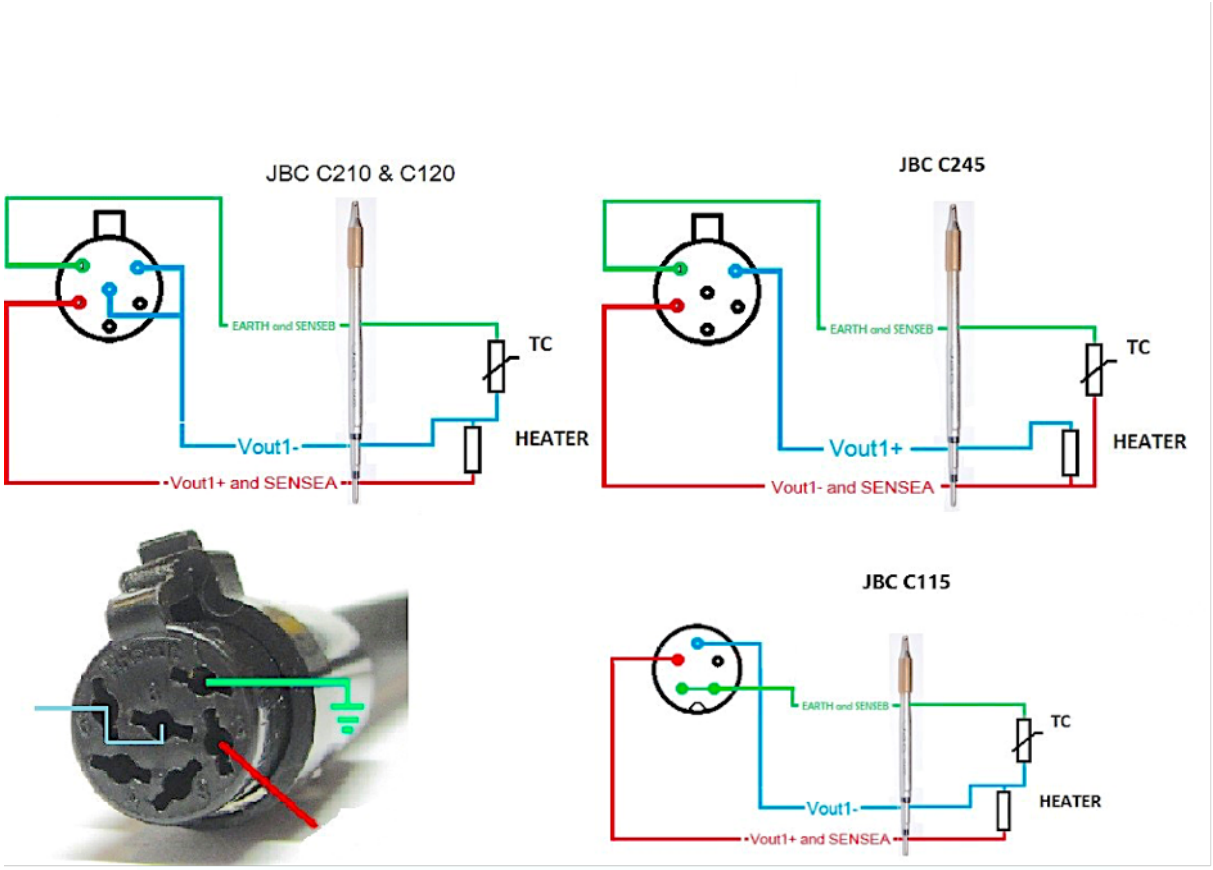
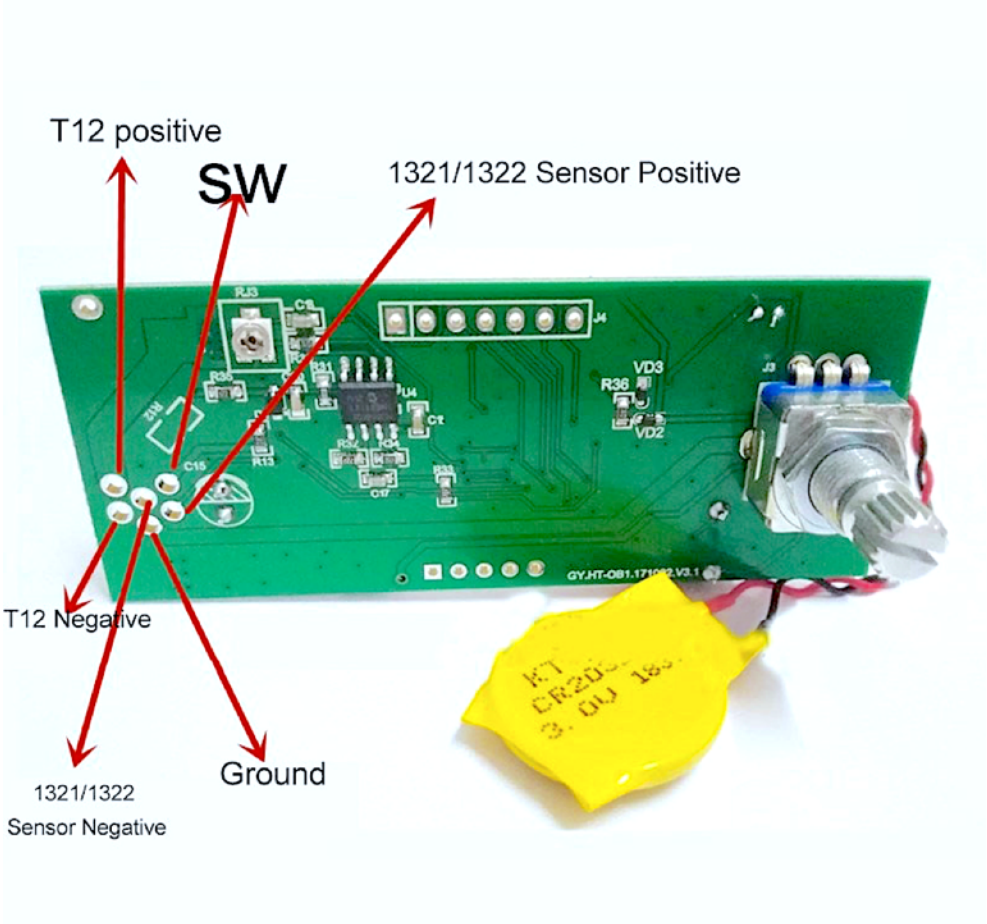

JBC C210 & C120
EARTH and SENSEB
TC
HEATER
Vout1-
Vout1+ and SENSEA
JBC C245
EARTH and SENSEB
TC
HEATER
Vout1+
Vout1- and SENSEA
JBC C115
EARTH and SENSEB
TC
HEATER
Vout1-
Vout1+ and SENSEA

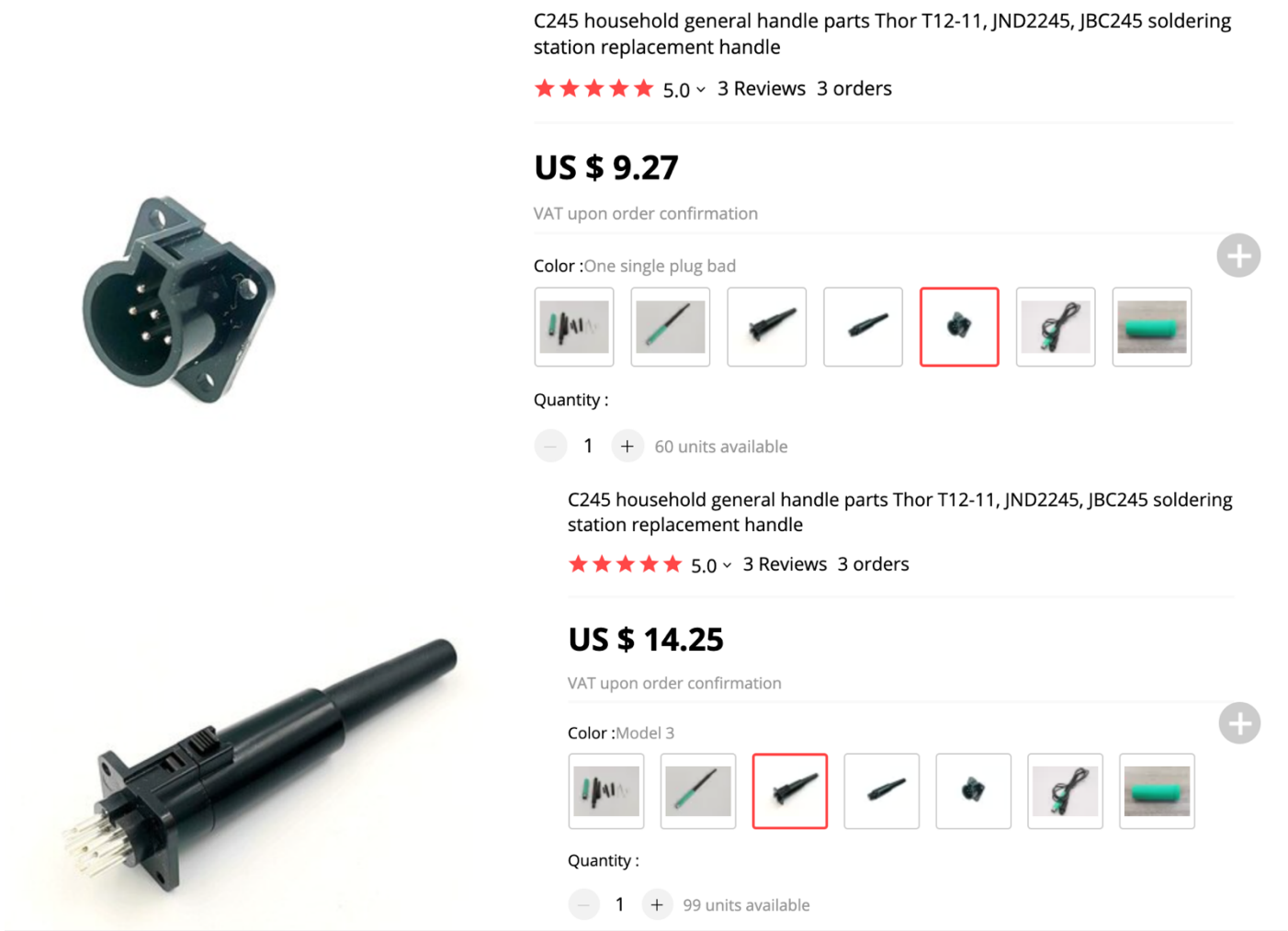

T12 positive
SW
1321/1322 Sensor Positive
T12 Negative
Ground
1321/1322
Sensor Negative

Quicko T12

C245 handle parts Thor T12-11, JND2245, JBC245 soldering station replacement handle >> Hirose

US $ 9.27

https://it.aliexpress.com/item/1005002541340194.html?spm=a2g0s.12269583.0.0.65937740FpoC2s



Hirose RPC1 https://www.eevblog.com/forum/reviews/jbc-handpiece-connector/
The plug on the panel is an Hirose RPC1-12RB-6P(71) with 2.5mm holes.

st Re: JBC soldering iron stand wiring.
« **Reply #5 on:** January 27, 2014, 02:24:38 pm »
The socket (male) for the handle is Farnell 1077728, RS components also carries it under 738-9038.

As for the pinout, the cartridge has three connectors, pinout to the **Hirose** connector as follows:
sleeve (front) - 1 **Hirose** - 1 **Binder**
ring (middle) - **5 Hirose** - 7 **Binder**
tip (pointy end towards handle) - 2 Hirose - 6 **Binder**

The heater is between 5 and 2, these are connected to heavy cables inside the station, and each goes via a dual mosfet AC switch to either side of the power winding on the transformer. There is a third heavy cable with a dual mosfet switch connected to pin 3 on the binder, this must be the connection to the second heater on the tweezers.

sleeve (front) is a ground connection. It goes to a thin yellow cable inside the station which is clearly ground for the system (connected to ground on the 7805 and earth). This serves to earth the tip.

I do not know if the thermocouple sense is done via the same two connection as the heater, or uses earth. I see no good reason _not_ to use the earth since it is there. In any case they measure with current off to eliminate the voltage drop caused by the current.

The good news is my station works fine with the handle connected like this. I don't know if I will even spring the money for the stand, since it is so overpriced.

Thanks again for the help!, ST

…….

You need to use suitable handpiece connector for your choice and select the tip type from the menu afterwards. GX12-5 (for Hakko) and Hirose (for JBC) sockets are available for purchase.

…….

HIROSE (HRS) RPC1-12P-6S(73) could make a nice adapter cable for a nano handle
The panel version: BINDER 09 0998 00 05

…….

Thanks for your support, I found the connector with these dates:

*** Binder, 7 Pole Panel Mount Miniature Connector Socket, Female Contacts**

*** BINDER - 99 0622 00 07 - SOCKET, FREE, 7WAY , 678 SERIES**

Electronic Soldering Iron GX12-5 Connector T12 Aviation ...
Electronic Soldering Iron GX12-5 Connector T12 Aviation Head Mini Aviation Male DIY Soldering Kits $1.99

https://www.renhotecic.com/Electronic-Soldering-Iron-GX12-5-Connector-T12-Aviation-Head-Mini-Aviation-Male-DIY-Soldering-Kits-0001335

https://it.aliexpress.com/item/32549546269.html

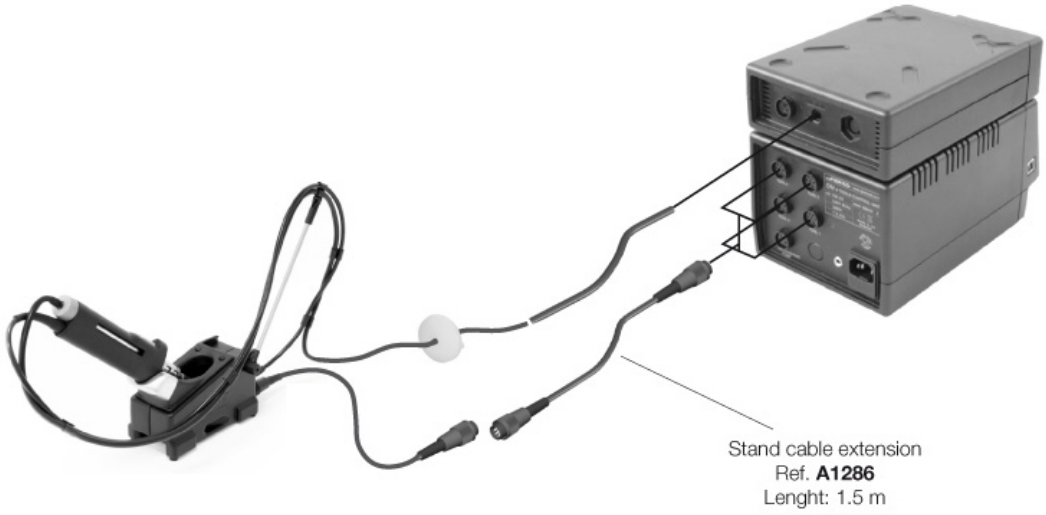
http://www.greatrctoys.com/Electronic-Soldering-Iron-GX12-5-Connector-T12-Aviation-Head-Mini-Aviation-Male-DIY-Soldering-Kits/

TEC extension connections T245, T210, NT115

A1286

Extension Lead for Stands

For increased distance between stand and control unit

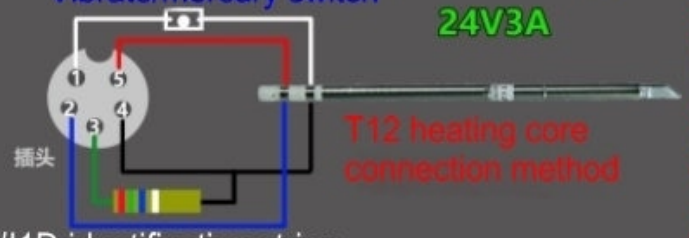


Aviation plug definition: 1. Sleep detection 2. Galvanic temperature measurement 3. Handle identification 4. Heating element negative electrode 5. Heating element positive electrode

Super

Vibrate/mercury switch

24V3A



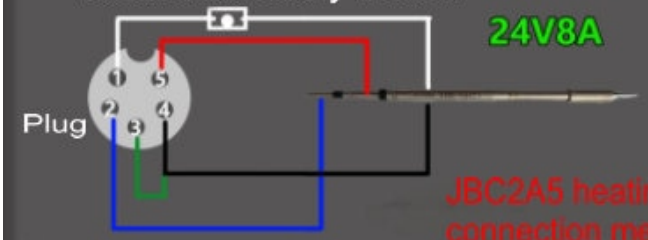
T12 heating core connection method

Settings: sleep standby-sleep mode-seat
Be careful to disconnect the mercury/vibration switch in the handle
The handle head must be connected to the negative pole of the heating element

3#I1D identification string
10K resistance to the negative electrode of the heating core

Vibration/Mercury Switch

24V8A

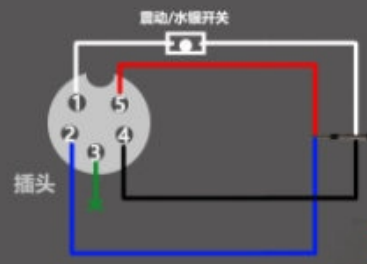


JBC2A5 heating core connection method

3#ID identification and heating core negative short-circuit

Setting a system setting a control method
Can switch 1D recognition function

Automatic mode is ID recognition control
Manual mode is to manually select the heating element type



12V6A

Super

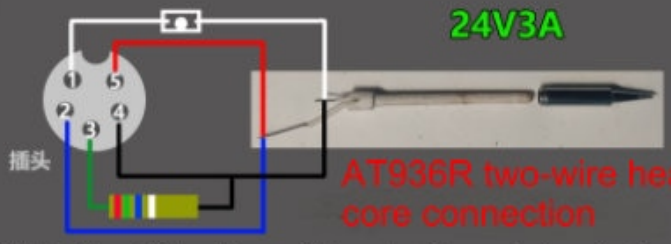
JBC210 heating core connection method

3#ID identification is suspended

After selecting manual mode,
you need to manually select the type of heating element

Set a system set a welding tip selection

Setting a welding tip calibration can separately verify the temperature of T12/245/210/936



24V3A

AT936R two-wire heating core connection

3#ID identification string 4.7K resistor to the negative electrode of heating core

operate:
1. Setting-Welding Tip Calibration-Welding Tip Selection
2. Set a welding tip calibration-100 degrees-500 degre

Pay attention to the positive and negative poles of the heating element
Short circuit will burn

English version (pic above)

T12 / jbc245 / 210 / 936 oled screen LCD control panel.
This control panel has three screens:

0.96 inch LCD screen
0.96 inch OLED screen
1.3 inch OLED screen

Except the screen is different, other hardware and software functions are the same !
The display effect of OLED screen is better than LCD, and the LCD has longer life than OLEDs, please choose reasonably!

Control input voltage range:	9V - 30V, maximum output 30V60A (MOS)
T12 recommended voltage:	24V
JBC245 recommended power supply:	24V
JBC470 recommended power supply:	48V
JBC210 recommended voltage:	12V
AT936 heater element:	24V

▲ The lower the voltage, the slower the temperature rises, and the head will be damaged by excessive pressure ▲

★ Support automatic handle recognition and manual selection
★ The default is the automatic recognition mode, automatic recognition t12 / 245 / 210 / 936
★ Manual mode (settings → system setting → control mode → manual)
At this time, it is need to manually select the heating core, and automatically identify the failure
★ Support vibration of dormancy and seat dormancy two ways
★ The default of vibration mode, by default, the handle does not move within 3 minutes, it will automatically go to sleep! Pick up the handle to resume work after sleep. Sleep time related settings are in (Settings → Sleep standby → Sleep time → 0-99 minutes)
★ Hibernation Mode
(Settings → Hibernation Standby → Hibernation Mode → Seat)
When the s sleep door is grounded (negative) , you sleep immediately, otherwise it works.

★ Free switching between two sets of USER INTERFACE
★ The default is the interface power bar, you can choose the interface power sphere
(Settings → System Settings → Display UI → Default / Concise)
★ Support customized protection voltage value, when the battery is powered, a voltage protection can be set, and the output power will be stopped when this voltage value is reached to prevent the battery from over-discharging! (Settings → System Settings → Protection Voltage)

★ Support jbc245 replacement core protection to prevent short circuit and burn the control board when 245 spare cores! Note that this function is not required for t12 and 210!

◥Basic operation◤
1: In normal mode, short press the encoder to enter the preset temperature mode (pre-set 4 groups of common use stability according to your needs, And the rotary encoder can switch between these 4 preset temperatures), short press of new to enter the set of temperature modes, the temperature of the rotary encoder increases by 10 degrees from time to time, and the temperature step is adjustable!
2: In normal mode, long press the encoder switch to enter the setting menu, short press to select, short press again to cancel the selection, long press the encoder key in the menu interface to exit and return to the previous level!

Note: DIY is risky. There is no guarantee that it will be done right. Shoot with the hands-on ability.