

Assembling the CT-10

Important!

Event though the CT-10 is pretty straightforward to assemble, it should **ONLY BE DONE BY A QUALIFIED TECHNICIAN!**

Preparations:

A few simple tools are needed:



- 6mm Allen/Hexkey
- 8mm Allen/Hexkey
- Size 2 cross screw driver
- Wire cutter
- 3mm blade flat nose screwdriver
- 13mm spanner
- DC voltmeter

Parts for a complete trolley assembly with the product model name where they are included shown in brackets:



*Wheels, 2 pairs
(CT-10)*



*Six 8mm size frame assembly screws
and four hole cover caps (CT-10)*



*Holder mounting kit, eight screws
sixteen washers and eight nuts,
thread size 8mm (CT-10)*



Two vertical beams, one with cable conduit (CT-10)

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Two horizontal beams, one with screw holes for power supply mounting (CT-10)



Up to eight CH-103 Charger Holder kits including holder (1x), power cable (1x), mounting brackets (2x, left and right side) and 4mm size brackets to holder mounting screws (4x). Screws, nuts and washers on right picture above are included with the CT-10 trolley.



One CTPS-101 Power Supply with mounting screw kit including two 5mm size screws, locking washer and washer.

Procedure:

1: Frame

Start with fastening the two vertical beams to the two wheel pair assemblies:



Fasten the vertical beam to the wheel assembly using one 8mm hex screw each. Fasten securely!

Continue with the lower and upper horizontal beams:



Start with the cable conduit wheel side, be sure to mount the power supply screw holes on the lower beam next to the cable conduit lower exit holes as shown on the left and middle image. Use two 8mm size screws to securely fasten the two horizontal beams.

Fasten the second wheel side using the two remaining 8mm frame assembly screws:



The conduit wheel side with mounted horizontal beams, fix the second wheel side to these beams to complete the trolley.

Fix the four hole cover caps to finish the trolley frame mounting:



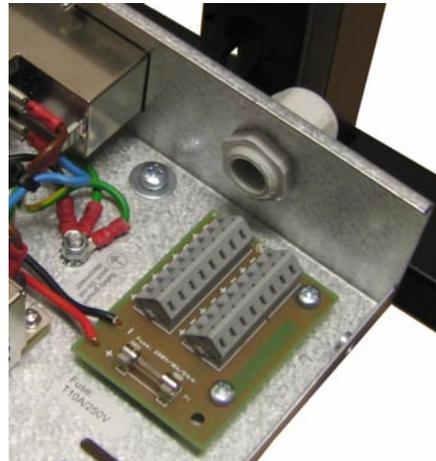
Screw hole caps for the four horizontal beam screws



Frame ready!

2: Power Supply

Start by removing the *CTPS-101* power supply cover. The unit is mounted on the frames lower beam with the cable gland and mains power socket closest to the frames cable conduit. Use the thick washers as spacers:



Place the thick washers on the lower beam screw holes, fasten the power supply using the two 5mm size screws with the locking and flat washers in the order shown below. Fasten securely!



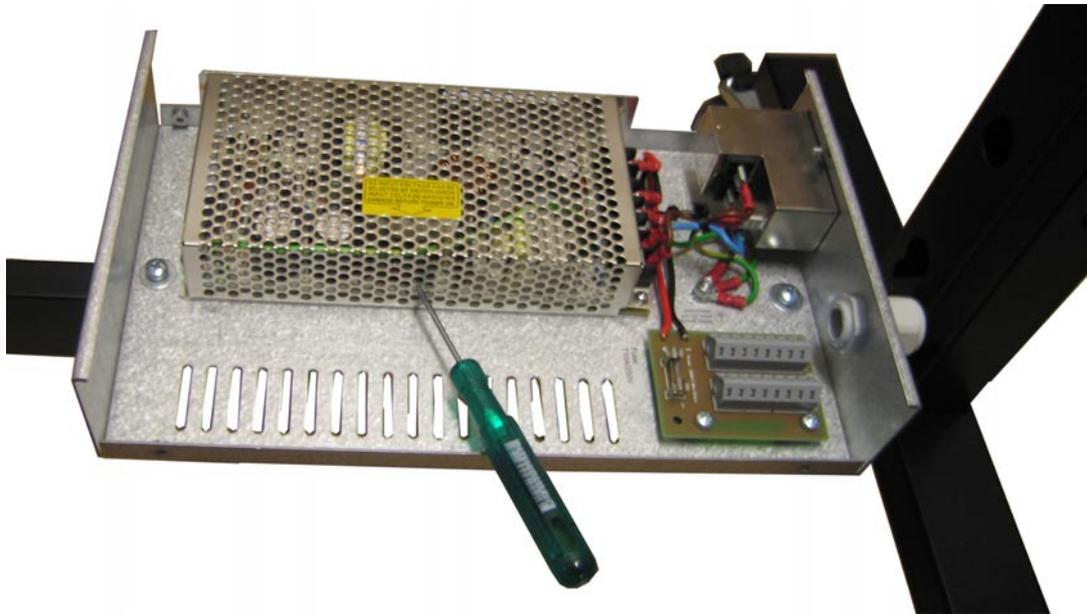
Power supply fastening screws



Power supply mounted

IMPORTANT!

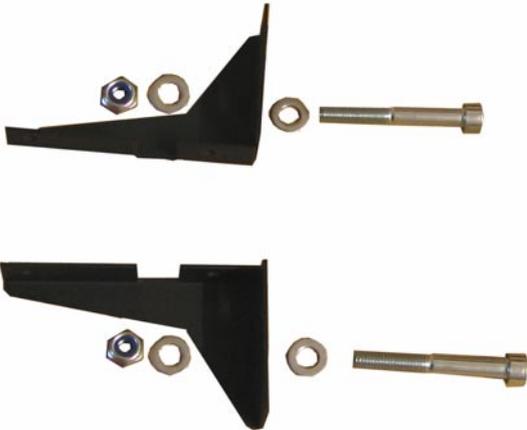
The power supply has an internal mains voltage range switch inside the supply box (as screw driver on picture below points), check that the proper range is selected before proceeding or the unit will be damaged!



Next, insert the appropriate mains fuse according to the fuse specifications found on the power supply:



3: Mounting the CH-103 Charger Holders



CH-103 mounting brackets and screws

The CT-10 can be equipped with up to eight CH-103, the brackets are mounted in the desired pairs and levels to match the desired number of 103's:



Continue mounting the CH-103 brackets in levels and pairs as desired using the supplied bracket screw kit.

Mount bracket(s) in the order: Screw, washer, bracket, frame, (bracket), washer and locking nut. Secure the screws hard enough so the brackets are fixed and not hanging but loose enough to be easily rotated by hand.

Before mounting the actual 103's, connect the power cables and be sure to use the connector on the correct side depending on the side of the frame the 103 will be mounted on, all power cables will be run down the same short-side using the cable conduit.

Strip the cables to about 8mm/0,4", separate the ends about 20mm/1". Insert the flat nose screwdriver in the connector's small top hole and carefully twist it. The connector will open, insert the stripped cable end.

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Insert the flat nose screwdriver, carefully twist it to open the contact and insert the stripped cable end. Make sure it contacts properly and that no possible short-circuits exists



*Observe polarity or the unit will be damaged!
Red = positive and Black = negative*

Mount the required number of CH-103's on the brackets using the M4 screws, four per unit:

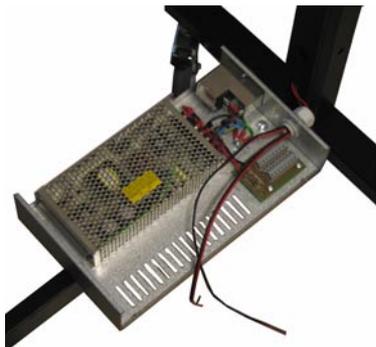


Secure the CH-103 to the brackets using four 4mm screws. Run the power cables through the conduit down to the power supply

After all CH-103's have been mounted, firmly fasten all the 8mm bracket-to-frame screws.

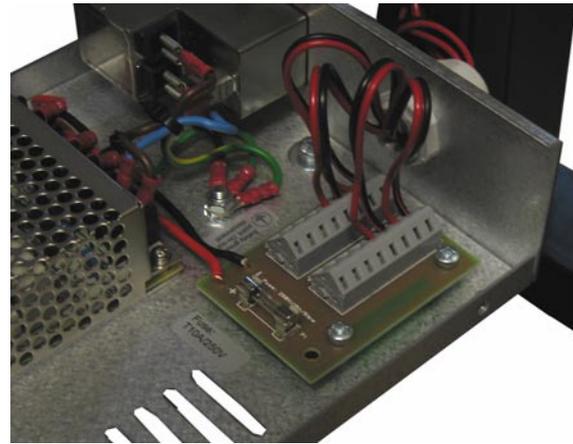
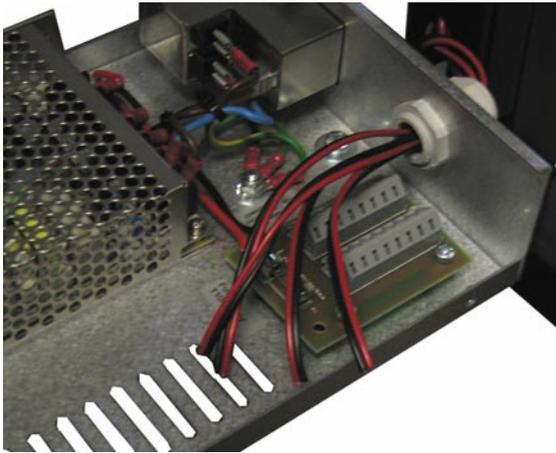
4: Connecting the 103's to the power supply.

All the CH-103 power cables should now be on the same side as the power supply cable inlets:



Insert all the power cables through the cable gland and secure the gland locking nut.

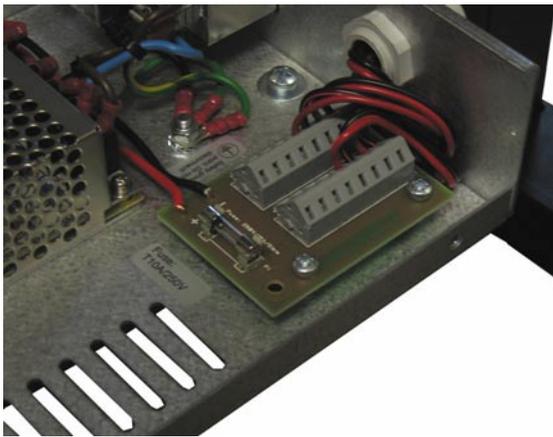
CloseTalk



Insert through the cable gland, trim to suitable length, strip and connect

Trim all cables to an appropriate length, strip the cables and connect to the connector board using the same method as described for connecting to the CH-103. Again, **OBSERVE POLARITY** or the unit's will be damaged.

After finishing the connections, arrange the cables inside the power supply:



Arrange cables neatly



Use DC voltmeter to verify supply voltage

5: Testing



After double-checking the selected mains power voltage range (see step 2), insert a mains power cable and turn unit on. **LIVE PARTS INSIDE!** The green power LED's on the right sides of all the 103's should be lit. If not, disconnect the mains power and double-check the low voltage power cable connections. When all power LED's are lit, verify the low voltage supply level by measuring the DC voltage between the case and the 10 Ampere fuse on the low voltage power connector board. It should be $9\pm 0,15\text{VDC}$.

When all is OK, disconnect the mains power and return the top cover to the power supply using the four 4mm screws.

6: Done

After testing, the CT-10 is ready for use. When placing the Delegate Unit's in their holders, make sure they are standing flat on the CH-103 surface, this to ensure proper contact to the charger pins. Enjoy!



Important safety information!

To maintain protection against fire and/or personal injury, please follow these guidelines:

- Make sure that the cooling vents on the power supply are not obstructed
- Do not spill liquids or insert any objects into the power supply
- Always connect to a grounded mains power outlet
- Disconnect from mains before moving
- Always replace fuses with same type and rating
- Do not use a damaged, substandard or non-approved mains cord
- To avoid tipping, do not move the unit in excessive speed. Be careful when moving the unit over thresholds or other obstructions
- Refer service to qualified personnel