

Assembling the CT-10

Event though the CT-10 is pretty straightforward to assemble, it should **ONLY BE DONE BY A QUALIFIED TECHNICIAN!** A few simple tools are needed:

- A metric Allen/Hexkey kit with sizes from 3mm to 8mm
- Mid-size pozidrive cross screw driver
- Wire cutter
- Small flat nose screw driver
- Adjustable spanner
- 0 – 12VDC voltage meter



A trolley assembly consists of:

- A frame kit including sides with wheels, two beams and screws
- One CTPS-101 power supply with screw kit
- One or more CH-103 charger holders with brackets and screws
- Cables and various mounting details

Procedure:

1: Frame

Start with fastening the two frame beams to one of the frame sides.



Frame side (shows a handle, no longer included)



Frame screw kit.

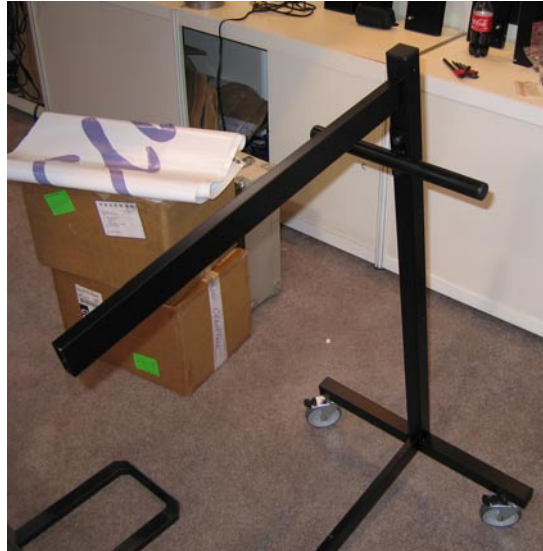
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Two beams, beam with screw holes should be the lower beam.



Fasten beam with screw holes low.



Fix the high beam.



Use hexkey tool to fasten the other side,



Insert the end caps, completing the frame.

2: Power Supply

The power supply is mounted on the frames lower beam.



CTPS-101



Power supply screw kit

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Remove the four screws and open the box.



Mount the PS using screw from underside with thin washer. Place thick washer on over-side of beam and then the PS. Place the other thin washer inside PS and then secure using self locking nuts.



The PS cable inlets should face the short side.

WARNING!



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

3: Mounting the CH-103 Charger Holders



CH-103



Bracket kit

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 number of 103's.

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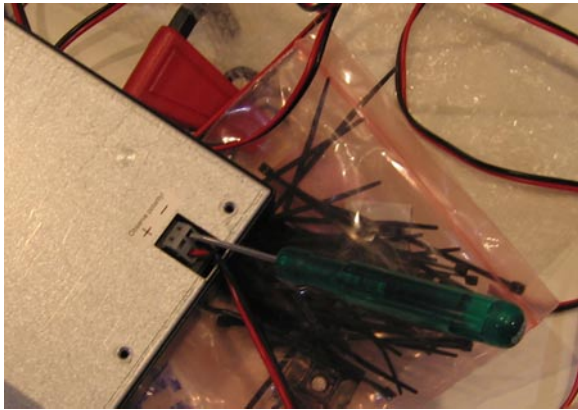
Top level, 103's mounted on both sides of the frame.



Second from top level, only one side of frame has a 103.

Mount bracket(s) in the order: Screw, washer, bracket, frame, (bracket), washer and locking nut.

Before mounting the actual 103's, connect the power cables, 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.



Strip the cables to about 10mm/0,5", separate the ends about 20mm/1". Insert the small flat nose screw driver in the connectors small top hole and carefully twist it. The connector will open, insert the stripped cable end.



The finished connection.
Observe polarity or the unit will be damaged! Red positive, black negative.



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

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

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All the CH-103 power cables should now be on the same side as the power supply cable inlets. Fix the four self-adhesive cable tie holders to the inside of the frame side beam. Insert and fix loosely the cable ties in the holders and run all power cables through the cable tie loops down to the power supply.



Insert the power cables through the cable gland, cut them with a generous length inside the PS box, secure the gland and cable ties to achieve a nice, tight cable run inside the frame.



Use the same technique as when connecting the power cables to the 103's to connect all the power cables. **OBSERVE POLARITY!** Red positive, black negative.

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 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.



Power supply ready with top cover



The finished product