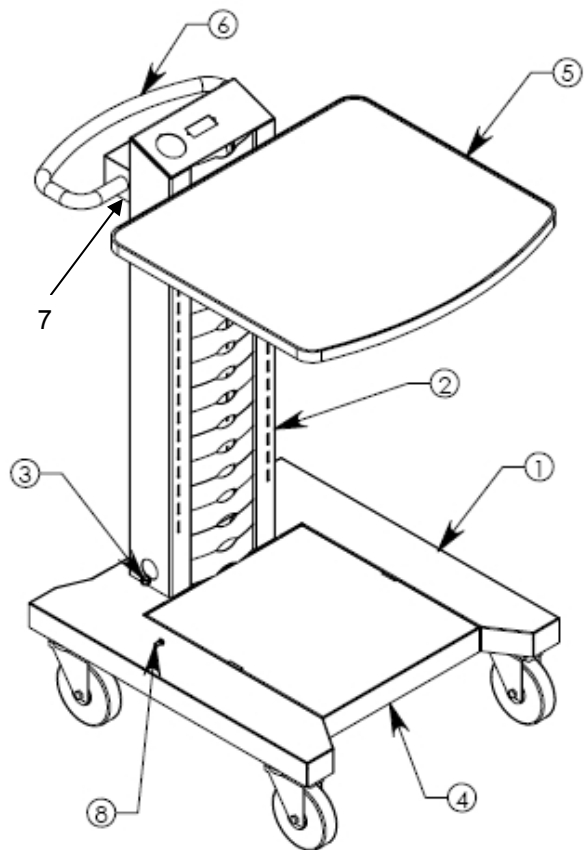


# NB Series Assembly Manual

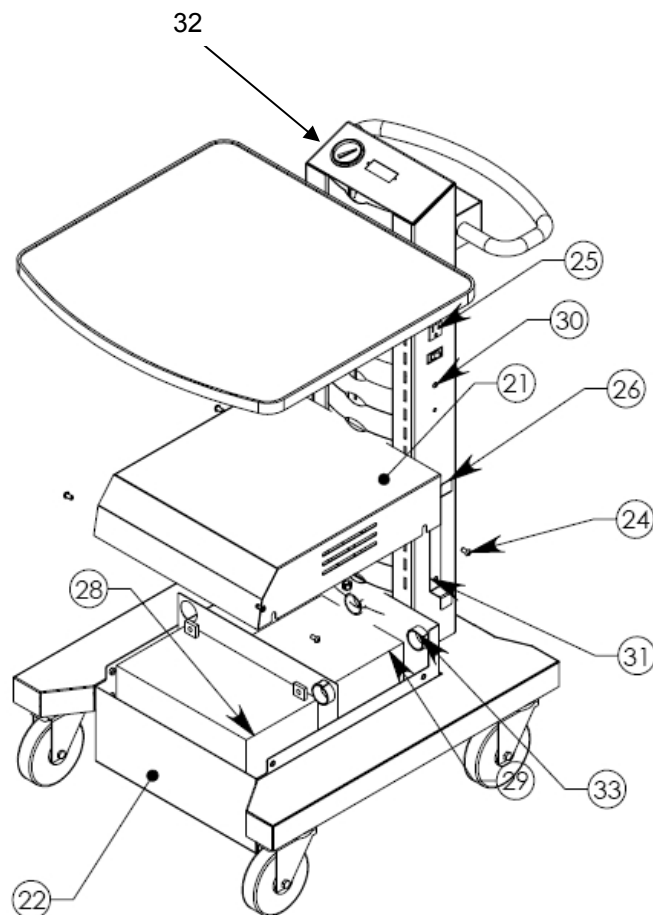


# NB Series Workstation Assembly Drawings

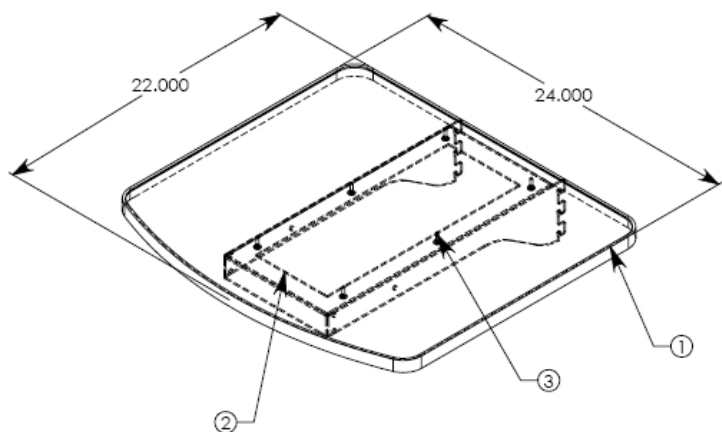


ITEM NO.	QTY.	DESCRIPTION
1	1	24" x 26" Base Assembly
2	1	Vertical Support Mast
3	4	3/8-16 Hex Nut & Washer
4	1	Base Trim Plate (for non-powered version)
5	1	24" x 22" Work Surface Assembly
6	1	Standard Push Handle
7	1	Screw, Btn HD 3/8-16 x 3/4"
8	4	Screw, 1/4-20 x 1/2

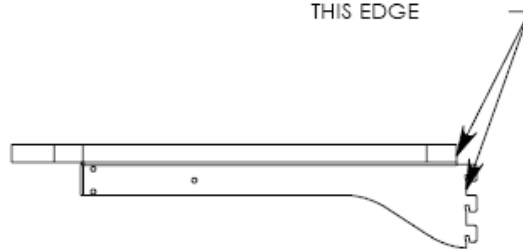
ITEM NO.	QTY.	DESCRIPTION
21	1	Battery Box Cover
22	1	Battery Box Bottom
24	4	Screw, #10-32 x 1/2" to Hold Battery Box Cover to Battery Box Base
25	1	6 Outlet Surge Protect w/15' Cord
26	1	Power Cord Reel
28	1	Battery
29	1	Inverter / Charger or Battery if 2-Battery System
30	4	Screw, Btn HD, 10-32 x 1/2
31	2	Screw, Btn HD, 10-32 x 1/2
32	1	2" Diameter Volt Meter
33	4	Wire Friction Bushing, 1.5"



# NB Series Workstation Assembly Drawings



WORK SURFACE  
MUST NOT PROTRUDE PAST  
THIS EDGE



ITEM NO.	QTY.	DESCRIPTION
1	1	24" x 22" Work Surface
2	1	Shelf Support
3	6	Screw, #10 x 3/4" Phil, Washer Head

## Optional Accessories



Drawer (3" / 76 mm) for  
NB, PC & RC Series



LCD support for  
NB & PC Series



Laptop/tablet holder for  
NB, PC & RC Series



Adjustable keyboard tray for  
NB & RC Series



Slide-out shelf for  
NB & RC Series



Laptop security bracket for  
NB & RC Series



Scanner holder for  
NB, PC & RC Series



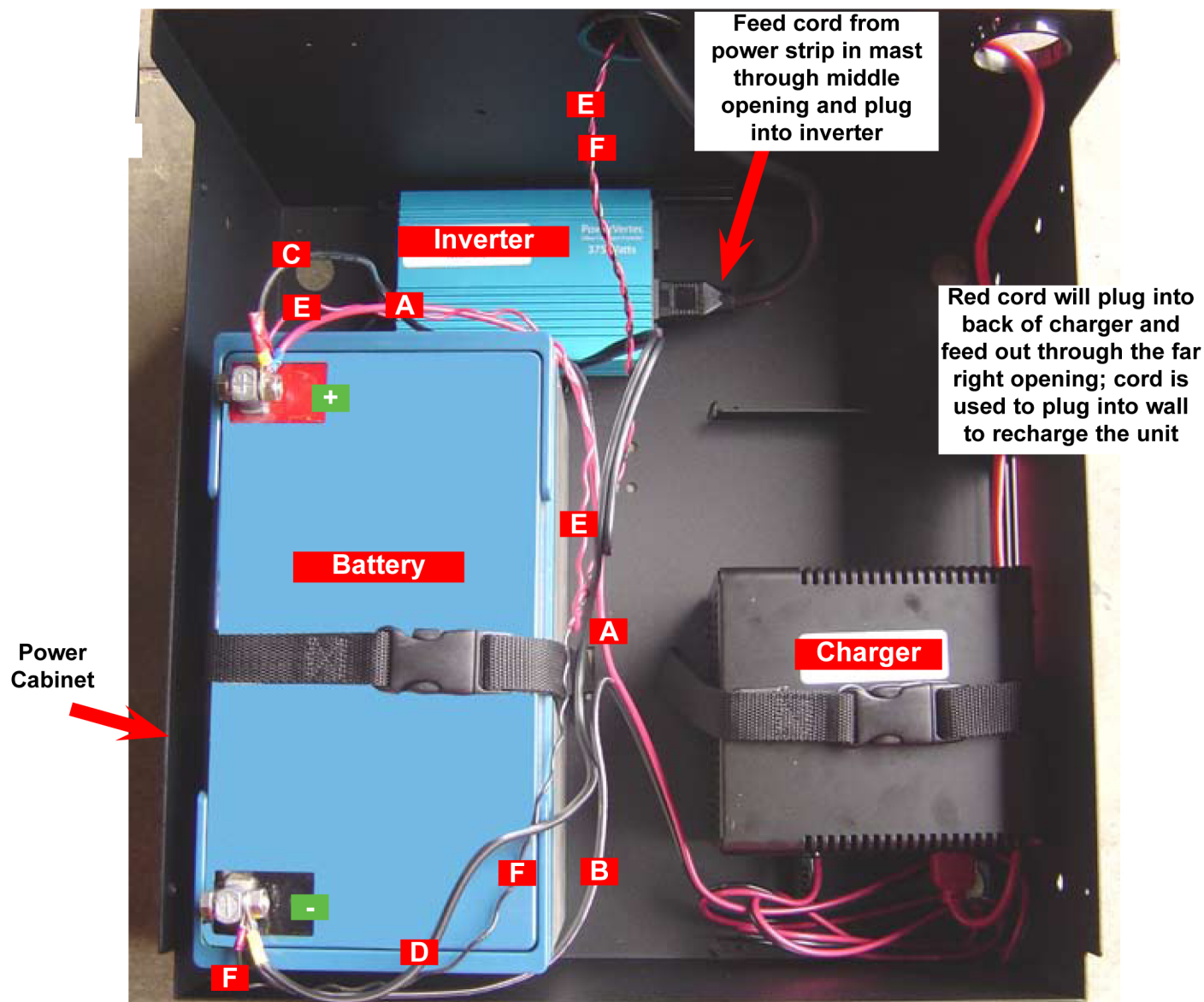
Binder holder for  
NB & PC Series

Newcastle Systems' line of accessories can be integrated with any product series in seconds to create a highly functional mobile workstation that is customized to your specific application.

For more information or additional accessories, call us at 781.935.3450  
or visit [www.newcastlesys.com](http://www.newcastlesys.com)

# 1 Battery Set-Up

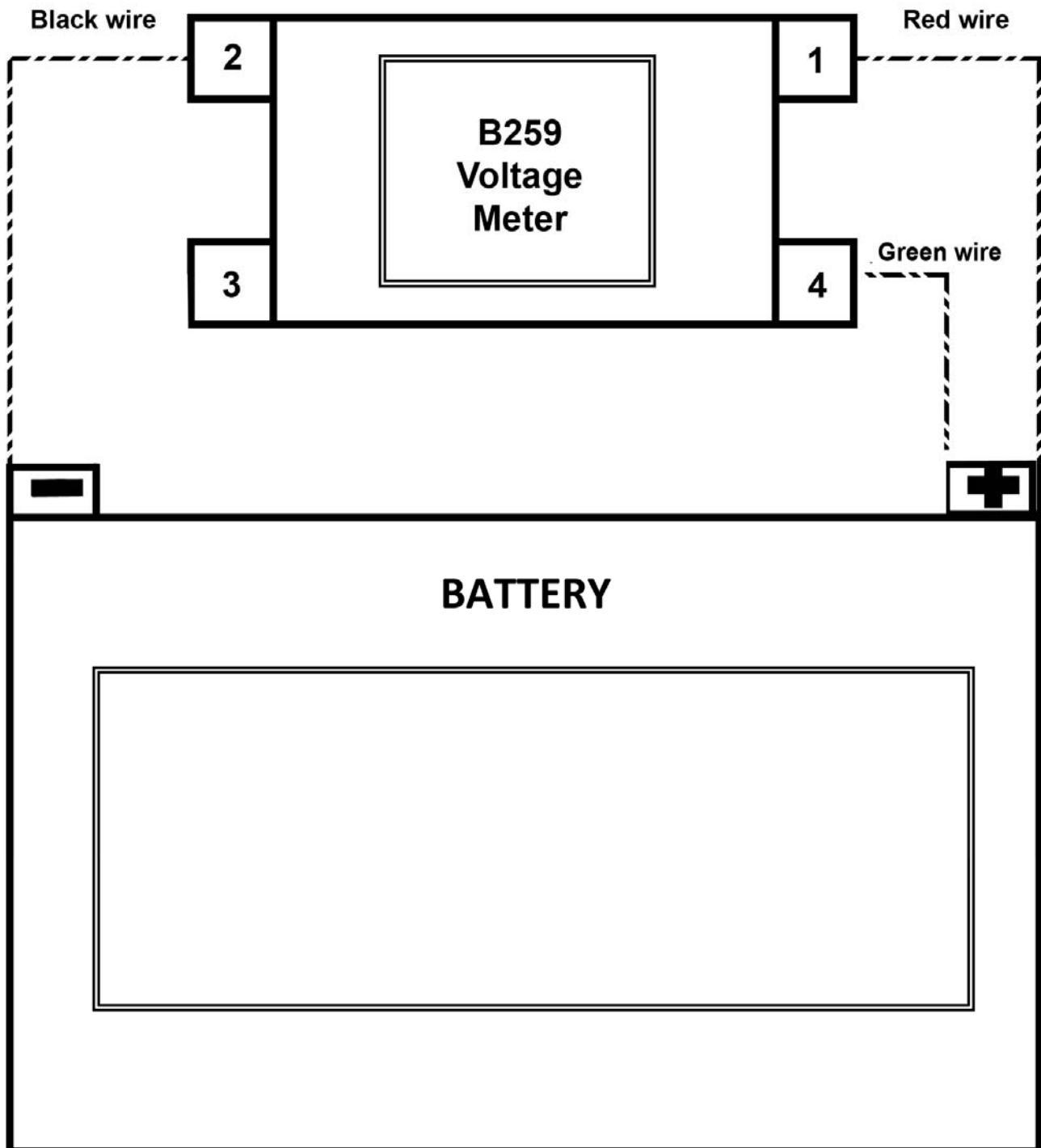
for 375 watt inverter and separate charger



- A** (+) on Charger to (+) on Battery: 29" Long 14 AWG, Red Wire
- B** (-) on Charger to (-) on Battery: 29" Long 14 AWG, Black Wire
- C** (+) on Inverter to (+) on Battery: 14 AWG Wire, Black Wire, Red Tape
- D** (-) on Inverter to (-) on Battery: 14 AWG Black Wire
- E** Feed volt meter wire down mast and through middle opening  
(+) on Volt Meter to (+) on Battery: 18 AWG Green and Red wire from Volt Meter (1 & 4) See set-up on next page
- F** (-) on Volt Meter to (-) on Battery: 18 AWG Black wire f from Volt Meter (2) see set-up on next page

**\*\* Please note:**  
**Make sure all fittings are tight and charger & battery are strapped down in cabinet\*\***

# B259 Voltage Meter for 375 Watt Inverter



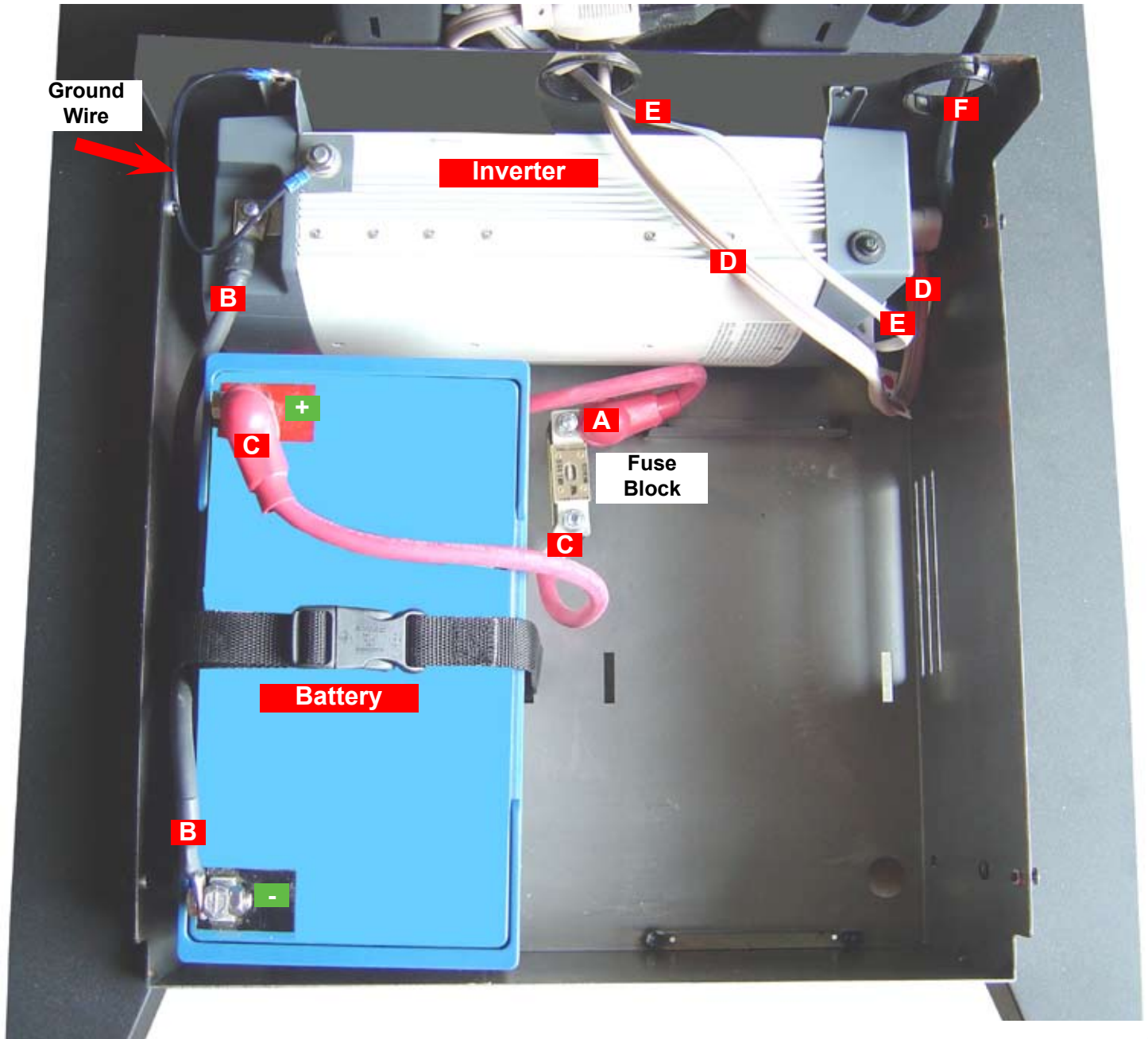
## Connection Instructions

- Connect (1) Red (+) and (4) Green to Battery Positive Terminal (+)
- Connect (2) Black to Battery Negative Terminal (-)



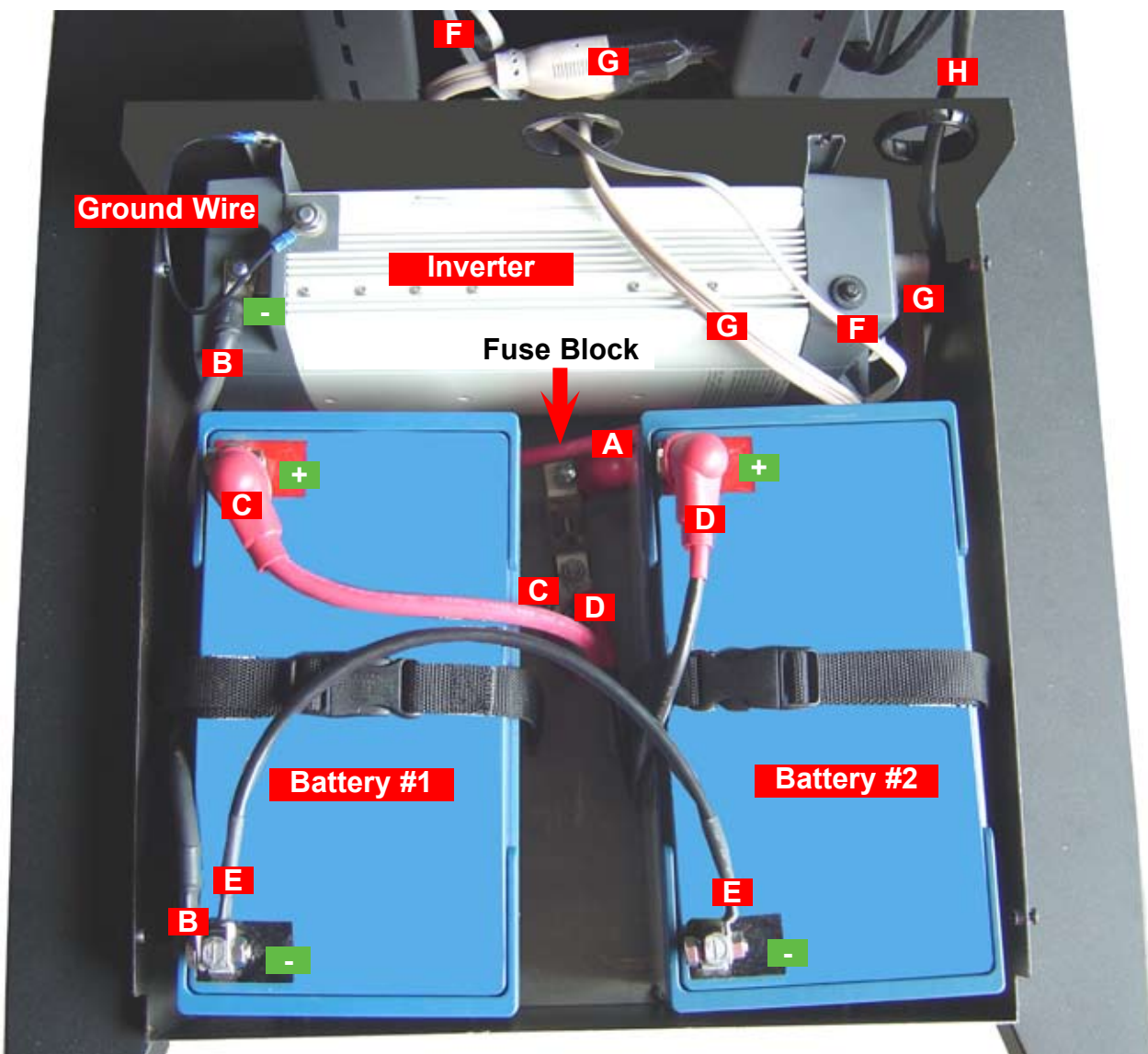
# 1 Battery Set-Up

For NB Series  
Mobile Powered Cart



- A** (+) on Inverter to Rear Fuse Block: 11" Long 2 AWG, 5/16 Ring Both, Red Wire
- B** (-) on Inverter to (-) on Battery: 16" Long 2 AWG, 5/16 Ring Both, Black Wire
- C** (+) on Battery to Front Fuse Block: 16" Long 2 AWG, (2) 5/16 Ring Terminals, Red Wire
- D** Integrated Powerstrip Plug (located in mast): Plug into cord from side of inverter
- E** Grey RJ45 Cable from Inverter: Plug into Remote Volt Meter located at top of mast
- F** Charger Cord

**\*\* Please note: Make sure all fittings are tight and battery is strapped down in cabinet\*\***



- A** (+) on Inverter to Rear Fuse Block: 11" Long 2 AWG, 5/16 Ring Both, Red Wire
- B** (-) on Inverter to (-) on Battery #1: 16" Long 2 AWG, 5/16 Ring Both, Black Wire
- C** (+) on Battery #1 to Front Fuse Block: 16" Long 2 AWG, (2) 5/16 Ring Terminals, Red Wire
- D** (+) on Battery #2 to Front Fuse Block: 16" Long 6 AWG, (2) 5/16 Ring Terminals, Black Wire & Red Sleeve
- E** (-) on Battery #1 to (-) on Battery #2: 16" Long 6 AWG, (2) 5/16 Ring Terminals, Black Wire
- F** Grey RJ45 Cable from Inverter: Plug into Remote Volt Meter at top of mast
- G** Integrated Powerstrip Plug (located in mast): Plug into cord from side of inverter
- H** Charger Cord

**\*\* Please note: Make sure all fittings are tight and batteries are strapped down in cabinet\*\***

## Assembly Instructions for NB Series Workstation

**Tools Required:** 7/32, 1/8" long handled Allen wrench, 9/16" or 15MM deep socketed bit, power tool with Phillips head screw driver bit, adjustable wrench.

### Step 1.

Match the threaded screws in the bottom of the mast to the holes in the cart base. The open section in the mast should face the front of the cart. Using 3/8" nuts hand tighten mast to base. Turn the base on its side and with a 9/16 socket wrench securely attach mast to base. You can now stand the cart up.



**Remove the power pack cover and insert the nylon strapping into the slots in the base to hold the power package components down. These can be tightened later.**

### Step 2.

**Battery Set-Up:** Please refer to **Set-Up Documents** found on pages 4-6.



- I. **YOU MUST ONLY CONNECT "+" to "+" & "-" to "-" FOR PROPER WIRE HOOKUP. \***
- II. **For the 750 & 1,250 inverters / chargers leave switch in rear in the "auto remote" mode.**
- III. **Make sure the battery does not go below 10.8 volts otherwise the inverter NOR charger will operate. Turn the inverter off if you will not be using the cart for a few days.**
- IV. **For Optional Inverter Charger Status Meter, P/N B222: Connect the cable from B222 to the back of the inverter/charger and turn it on.**

### Step 3.

Place the battery box cover on and secure in place with (4) #10-32 screws. Attach the push handle to the rear of the mast by matching the hooks to the slots in the rear of the mast. The handle is secured to the mast by a 3/8" hex screw. **\*\*If you ordered a post mounted LCD holder (B118) then you need to mount this post at the same time as the handle.\*\***

### Step 4.

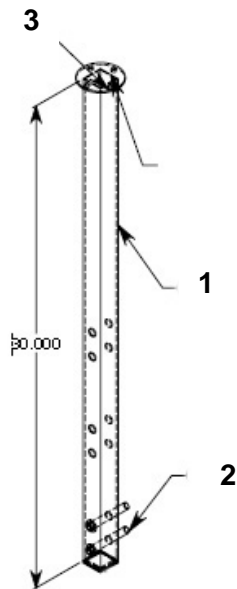
Take the shelf bracket and attach to the underside of the laminated surface using the (6) #10- 3/4" screws. The bracket should be centered on the underside of the work surface with the hooks extending past the T-mold about 1". You can then mount the assembled shelf with bracket to the upright mast. Make sure the hooks on the shelf bracket go through the slots in the mast and are **snapped down firmly**.



### Optional Accessories:

**Keyboard Tray (B100):** Mounted to the underside of the shelf before attaching the shelf to the mast. With the keyboard mechanism in the track secure the keyboard slide track to the shelf using (4) wood screws. Insert black screw into the back of the track to hold in position.

### Post Mounted Flat Screen Holder (B118):



ITEM NO.	QTY.	DESCRIPTION
1	1	28" Monitor Post
2	2	2" Hex Screws
3	1	Monitor Mount Plate

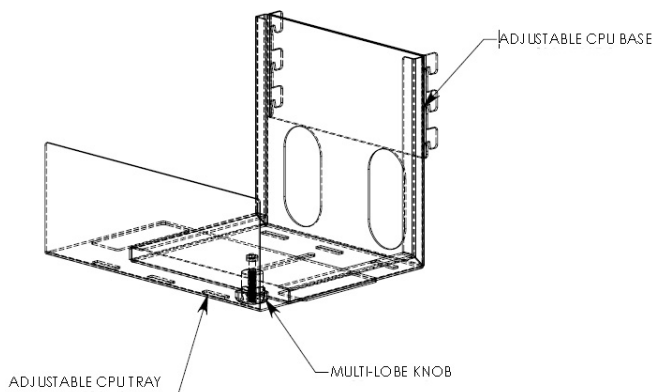
Before securing the push handle to the mast, slide the post down through the hole in the push handle pocket.

Secure the post to mast with (2) 2" hex screws.

Attach the 7" arm to the monitor mount plate using (3) #10-32 3/4" screws.

**Laptop / Tablet Holder (B112), Scanner Holder (B132):** These can be attached anywhere to the top laminated shelf using the #10 wood screws.

### Adjustable CPU / Inverter Holder (B109):



Insert the (2) nylon straps into the slots in the tray and base.

The adjustable CPU tray with mounted screw will line up over adjustable CPU base.

Attach washer and knob to mounted screw, position and tighten as needed.

**\*\*For inverter, face cables to the back of the adjustable CPU base\*\***

Thank you for choosing Newcastle Systems to meet your mobile equipment requirements. Please call us at 781-935-3450 or email us at [sales@newcastlesys.com](mailto:sales@newcastlesys.com) if you have any questions or comments.

# Tips to Extend Battery Life

1. Charge the battery before using it to ensure it is fully charged.
2. **Monitor the battery status meter on the cart.**
3. **Batteries SHOULD NOT be discharged below 11.5 volts** as this will shorten the life of the battery.
4. **Batteries SHOULD NOT be stored in a discharged state for more than 1 or 2 days.** They should be charged as soon as possible after each use (*otherwise it can void the warranty*). If a battery has been left in a discharged state for a period of time it may no longer take a charge.
5. Avoid exposing battery to heat, service life is shortened at ambient temperatures above 85F.
6. Batteries should always be charged in a secure but ventilated enclosure.
7. When powering equipment on the cart one can have the charger plugged in if necessary. In this case, the AC power will pass thru the charger and power your equipment directly.
8. When not in use, the system charger can be plugged into the AC power to ensure the battery remains in an optimal state or turn inverter to off position.
9. Charging system is a trickle charger so leaving it plugged in will NOT damage the battery.
10. Make sure that the terminals on the battery are tight as are the set screws holding the wire inside the inverter / charger.