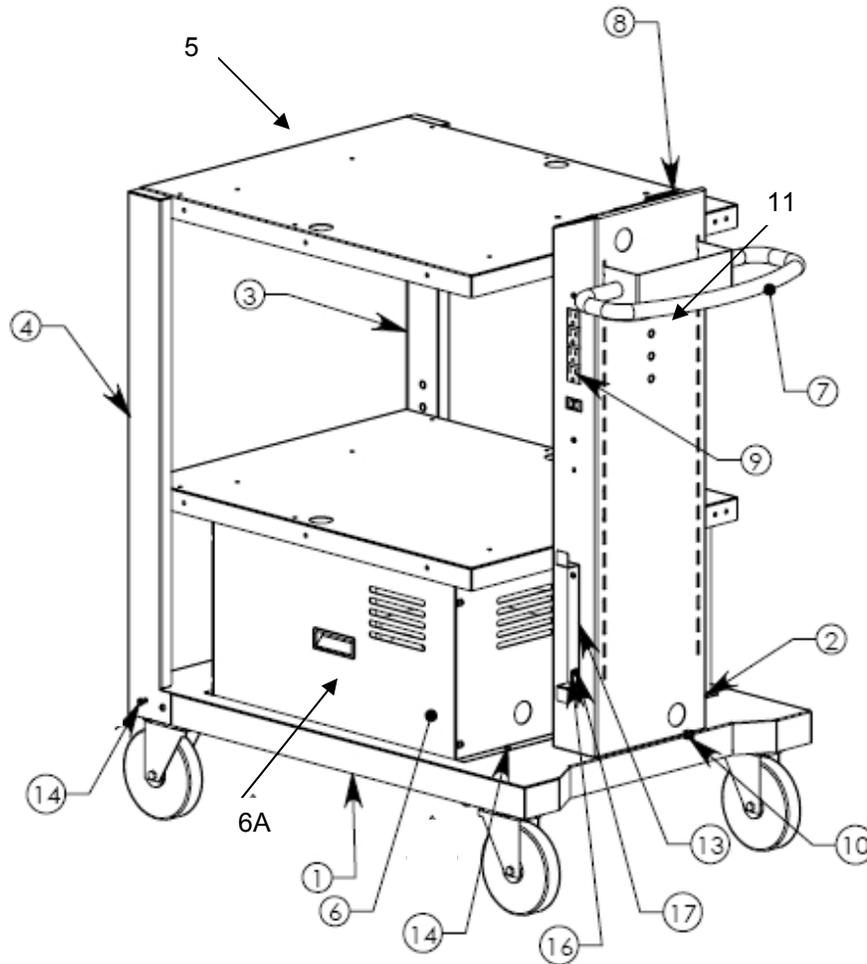




# PC Series Workstation Assembly Drawings



ITEM NO.	QTY.	DESCRIPTION
1	1	PC Base Assembly
2	1	Vertical Support Mast
3	1	Front Post Assembly Left Side
4	1	Front Post Assembly Right Side
5	2	Shelf Assembly
6	1	Battery Box Assembly
6A	1	Battery Box Cover with (4) #10-32 x 1/2" Screws
7	1	Standard Push Handle
8	1	2" Diameter Volt Meter
9	1	4 Outlet Surge Protect w/15' Cord
10	4	3/8-16 Hex Nut & Washer
11	1	Screw, Btn HD, 3/8-16 x 7/8
13	1	Power Cord Reel
14	10	Screw 1/4-20 x 1/2
16	4	Screw, Btn HD, 10-32 x 1/2
17	4	10-32 Hex Nut w/Star Washer



Laptop/tablet holder for  
NB, PC & RC Series



Binder holder for  
NB & PC Series



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



CPU 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.

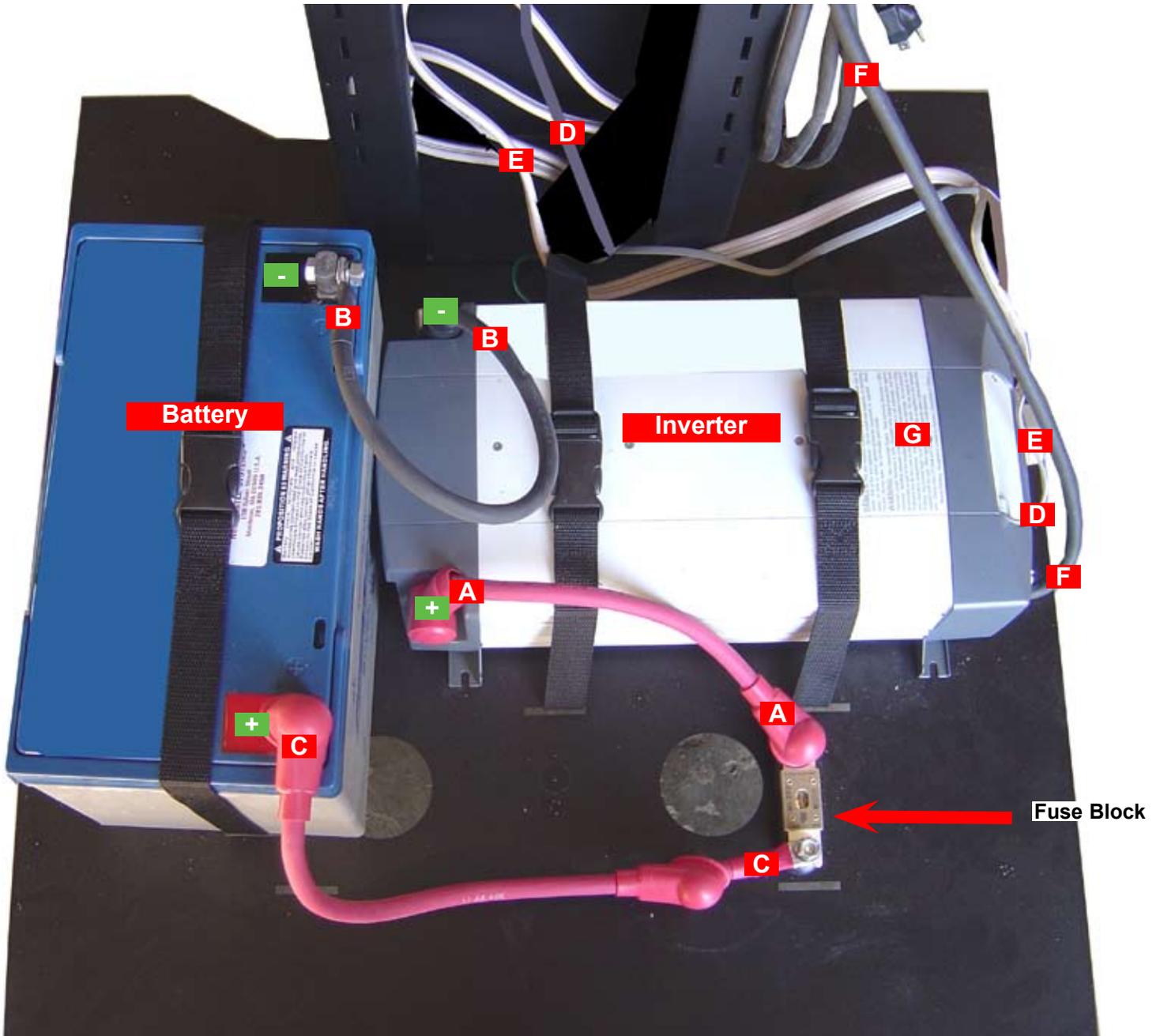
**For more information, call us at 781.935.3450 or visit [www.newcastlesys.com](http://www.newcastlesys.com)**



LCD support for  
NB & PC Series

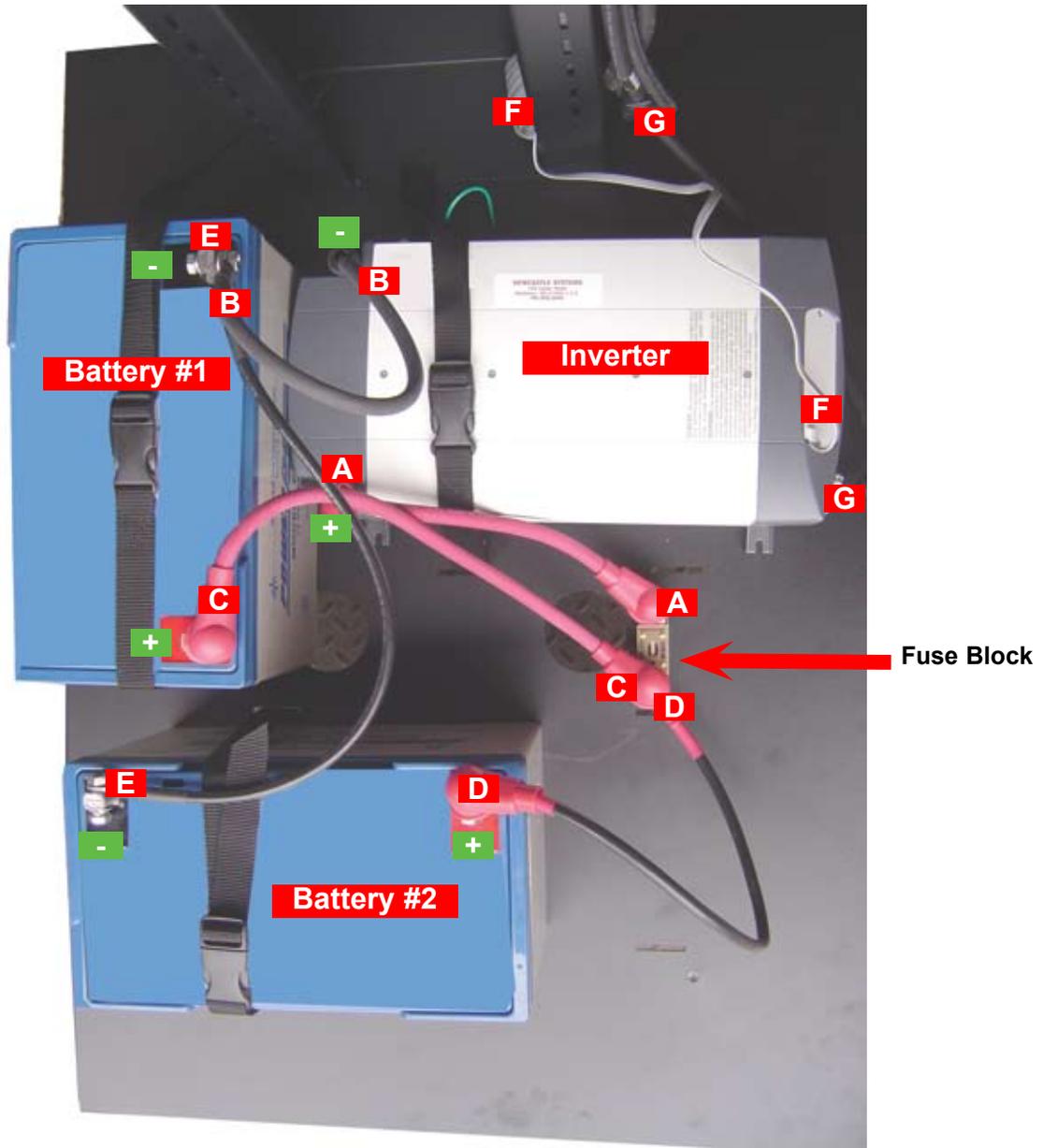


Scanner holder for  
NB, PC & RC Series



- A** (+) on Inverter to Rear Fuse Block: 2 AWG, 5/16 Ring Both, Red Wire
- B** (-) on Inverter to (-) on Battery #1: 19" Long 2 AWG, 5/16 Ring Both, Black Wire
- C** (+) on Battery #1 to Front Fuse Block: 18" Long 2 AWG, 5/16 Ring Both, Red Wire
- D** Grey RJ45 Cable from Inverter: Plug into Remote Volt Meter at top of mast
- E** Integrated Powerstrip Plug (located in mast): Plug into cord from side of inverter
- F** Charger Cord

**\*\* Please note: Integrated powerstrip plug, (located in mast) plugs into cord from side of inverter. Make sure all fittings are tight and batteries are strapped down in cabinet\*\***

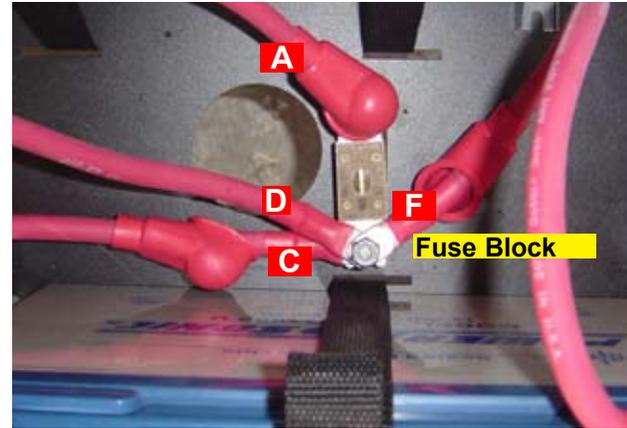


- A** (+) on Inverter to Rear Fuse Block: 18" Long 2 AWG, 5/16 Ring Both, Red Wire
- B** (-) on Inverter to (-) on Battery #1: 19" Long 2 AWG, 5/16 Ring Both, Black Wire
- C** (+) on Battery #1 to Front Fuse Block: 18" Long 2 AWG, 5/16 Ring Both, Red Wire
- D** (+) on Battery #2 to Front Fuse Block: 18" Long 6 AWG, 5/16 Ring Both, Black Wire
- E** (-) on Battery #1 to (-) on Battery #2: 18" Long 6 AWG, 5/16 Ring Both, Black wire
- F** Grey RJ45 Cable from Inverter: Plug into Remote Volt Meter at top of mast
- G** Charger Cord

**\*\* Please note: Integrated powerstrip plug, (located in mast) plugs into cord from side of inverter. Make sure all fittings are tight and batteries are strapped down in cabinet\*\***

# 3 Battery Set-Up

For PC Series  
Powered Workstation



Close up of Fuse Block

- A** (+) on Inverter to Rear Fuse Block: 18" Long 2 AWG, 5/16 Ring Both, Red Wire
- B** (-) on Inverter to (-) on Battery #1: 19" Long 2 AWG, 5/16 Ring Both, Black Wire
- C** (+) on Battery #1 to Front Fuse Block: 18" Long 2 AWG, 5/16 Ring Both, Red Wire
- D** (+) on Battery #2 to Front Fuse Block: 18" Long 6 AWG, 5/16 Ring Both, Red Wire
- E** (-) on Battery #1 to (-) on Battery #2: 18" Long 6 AWG, 5/16 Ring Both, Black wire
- F** (+) on Battery #3 to Front Fuse Block: 18" Long 6 AWG, 5/16 Ring Both, Red Wire
- G** (-) on Battery #2 to (-) on Battery #3: 18" Long 6 AWG, 5/16 Ring Both, Black wire
- H** Grey RJ45 Cable from Inverter: Plug into Remote Volt Meter at top of mast
- I** Integrated Powerstrip Plug (located in mast): Plug into cord from side of inverter
- J** Charger Cord

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

## Assembly Instructions for PC Series Workstation

### Step 1.

Match the (4) threaded screws in the bottom of the mast with the holes in the cart base and secure using (4) 3/8" nuts. The open section of the vertical mast should face the front. Next take the right assembly post #4 and attach with (3) 1/4 -20 screws to base. Repeat for the left assembly post. Insert the 3/8 x1/2" screws into each post so the shelf can rest on it.

### Step 2.

Remove the battery box cover from the base. Insert the nylon strapping into the slots in the base to hold the components down. These can be tightened later. Standing on the left side of the cart (beside the power strip) place the battery on the left towards the front of the cart base. The terminals should be close to the center. If your system comes with a second battery then this battery is positioned towards the rear on the right side of the cart base. It should be at right angles to the first one. Then place the inverter in the front right with the outlets facing the side of the cart. You can now tighten the nylon straps to hold down the battery and inverter / charger.

### Step 3.

For **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 & 1250 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.**

**\*For the 350 watt inverter & charger, connect the positive cable (red) to the positive on the battery.**

You can now attach the battery cover to the cart base using the (6) #10-32 or 1/4 - 20 screws as provided. Insert the plastic grommet into the side of the battery cover before feeding the power cord from the inverter through. This can be wrapped around the cord reel on the outside of the mast.

Take the plug from the power strip which has been mounted inside the mast, guide it through the same hole in the battery box and insert it into one of the outlets in the rear of the inverter.

**Step 4.**

Take the metal shelf and guide the hooks on the shelf bracket through the slots in the mast. At the same time lower the front of the shelf so that the notches in the front of the shelves fit into the screws on the inside of the 1x3 front support posts and are **snapped down**.

**Optional Accessories:**

**Keyboard Tray:** (B110) Attach the slide tracks to the keyboard tray. Mount to the underside of the shelf, then attach the shelf to the mast. First secure the keyboard slide track to the shelf using (6) screws, then slide the keyboard mechanism into the track. Insert bolt into end of track to hold in position.

**Post Mounted Flat Screen Holder:** (B118) Attach the 7" flat screen holder to the top of the post using the 3 - #8-32 x 1/2" bolts provided. Before securing the push handle to the mast, slide the post down through the hole in the push handle pocket. Secure to mast with (2) 2 3/8" hex screws.

**Laptop / Tablet holder:** (B112) - can be attached to the top shelf in the rear corner using the nuts and bolts as provided.

**Scanner Holder:** (B133) Can be attached to the right side of the top shelf using the screws.

**Shelf Edge Lip:** Attaches using (3) 8-32 x 3/8

**Tools Required:** 7/32 & 5/32 & 3/32 Allen wrench (long handle), power tool with Phillips head screw driver bit, adjustable wrench

Thanks 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. (This should NOT be done daily).
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.