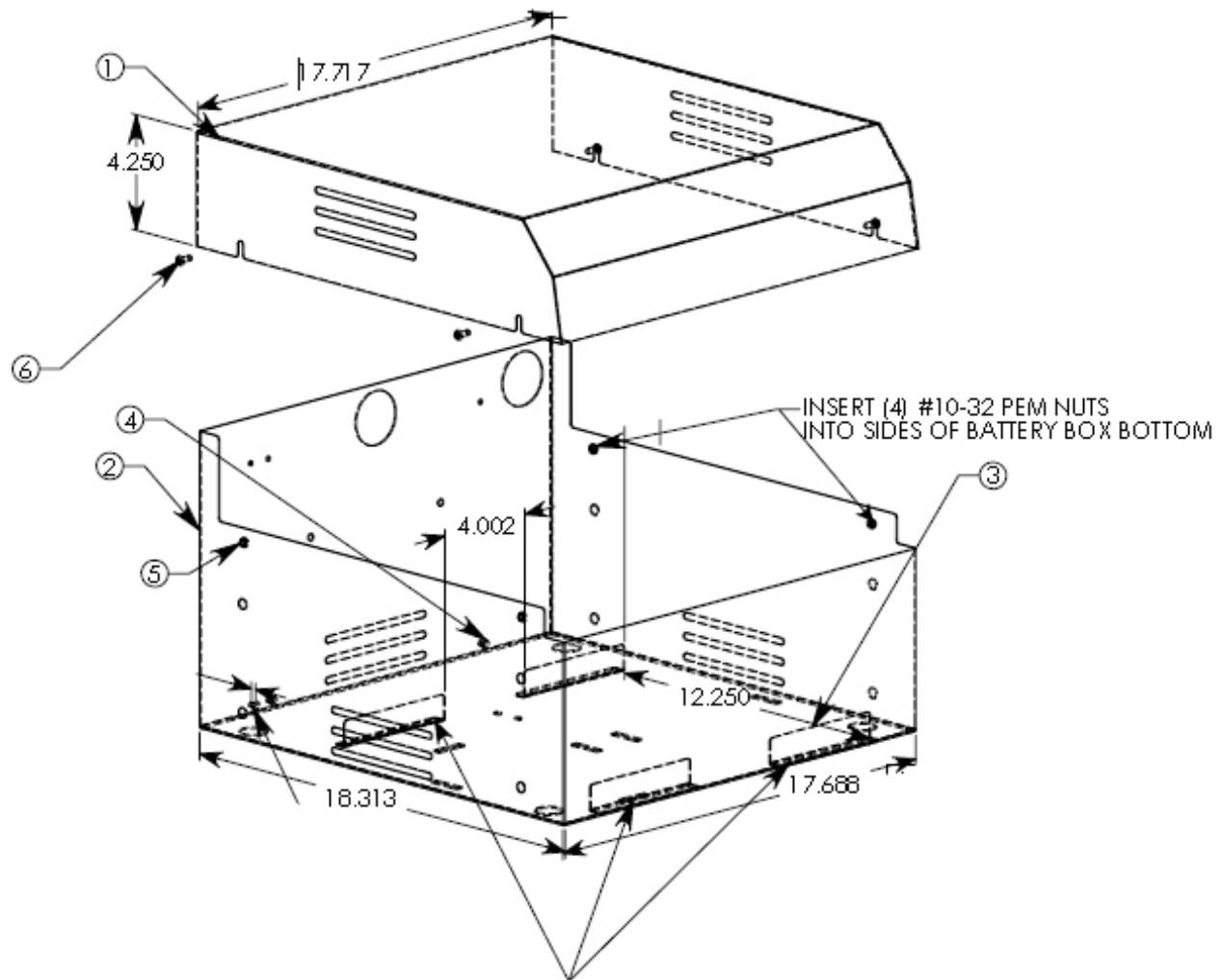


PP Series Power Package Assembly Manual



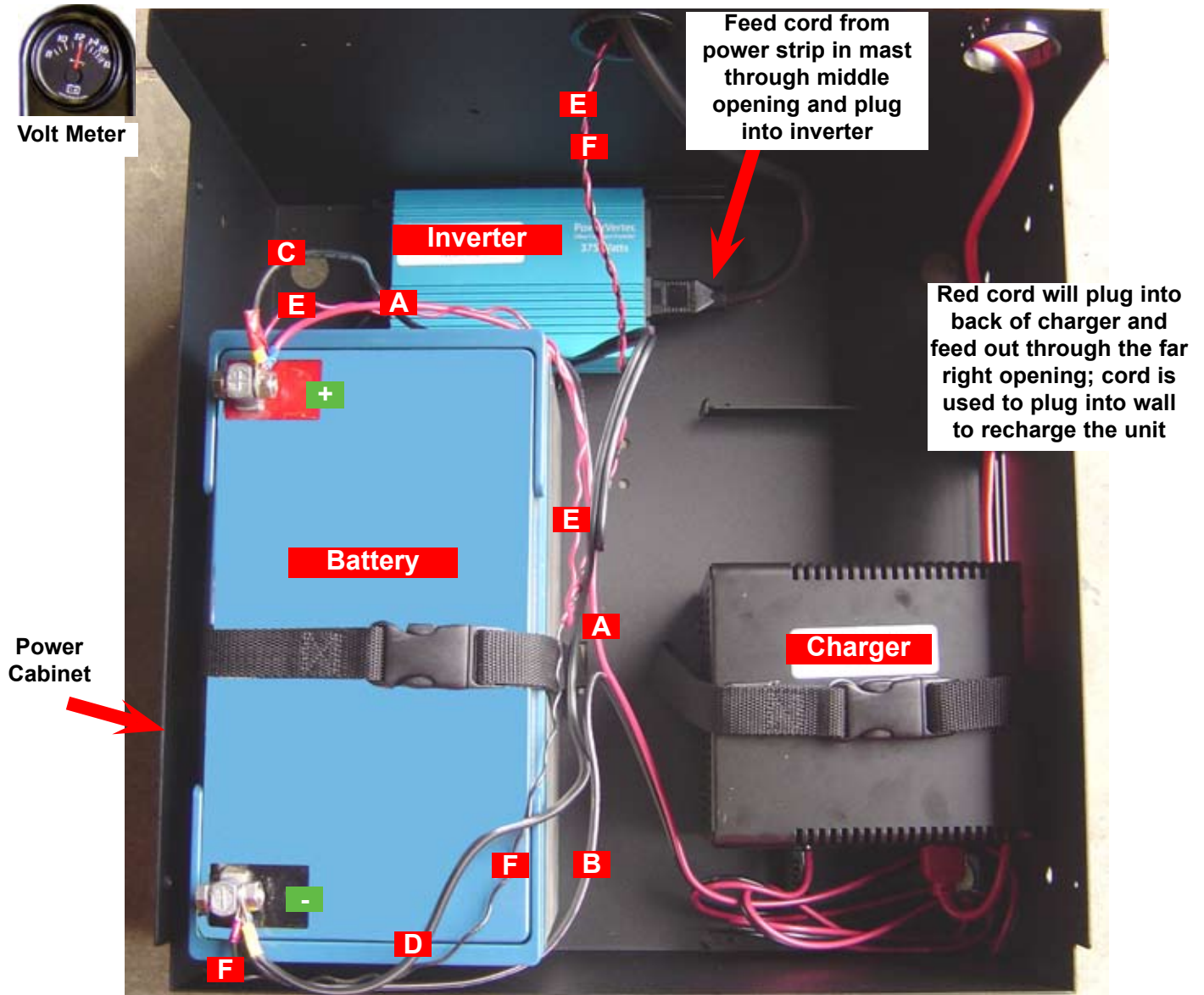
PP Series Cabinet Assembly Drawings



ITEM #	QTY.	DESCRIPTION
1	1	Battery Box Cover
2	1	Battery Box Bottom
3	4	Battery Box Stop Angle
4	3	Rivet, .143D X .267L
5	4	Pem Nut, #10-32
6	4	Screw, 10-32 X 1/2"

1 Battery Set-Up

(for 350 watt inverter & separate charger)



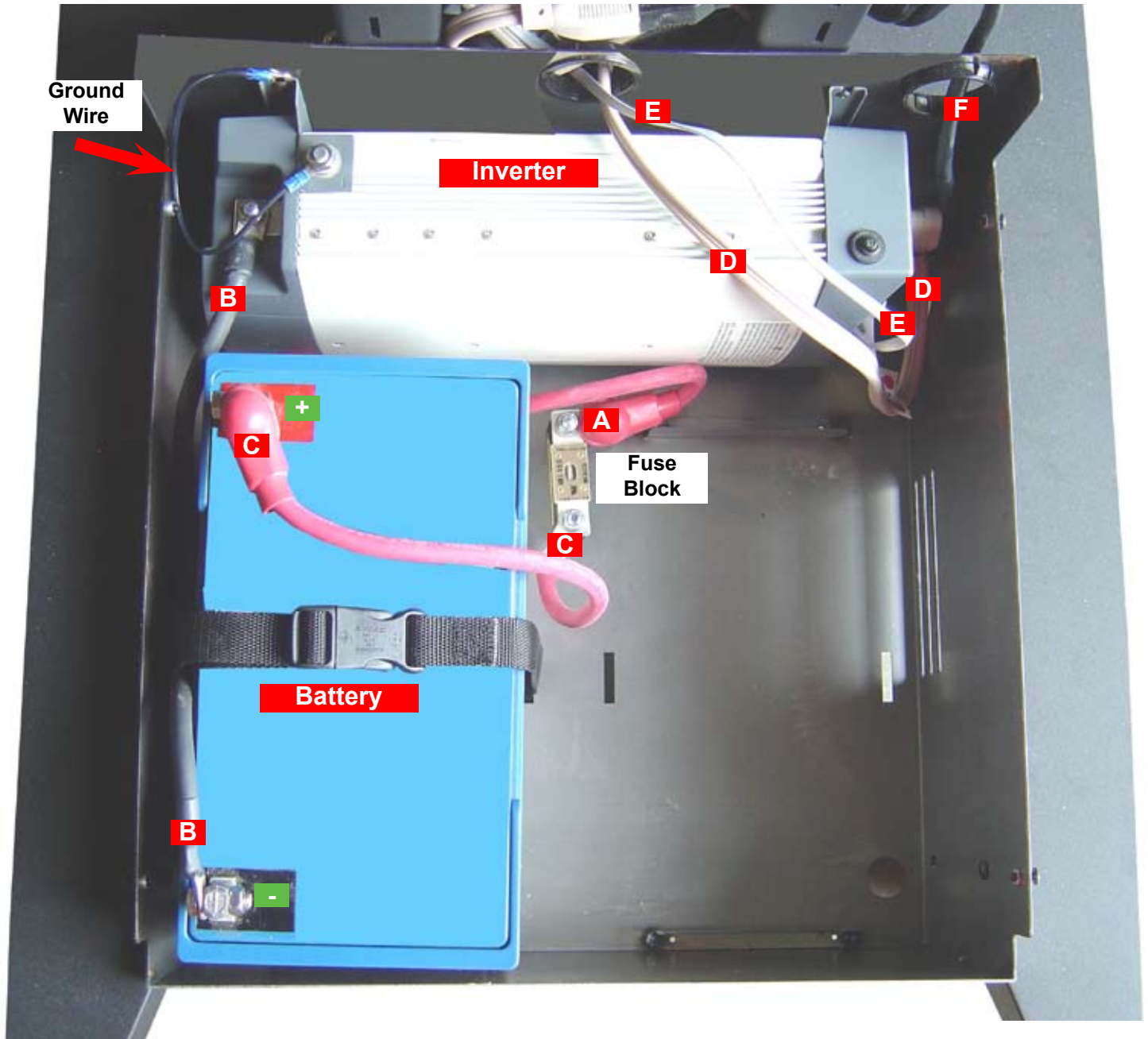
- A** (+) on Charger to (+) on Battery: 29" Long 14 AWG, Red Wire
- B** (-) on Charger to (-) on Battery: 29" Long 14 AWG, Black Wire
- C** (+) on Inverter to (+) on Battery: 14 AWG Wire, Black Wire, Red Tape
- D** (-) on Inverter to (-) on Battery: 14 AWG Black Wire
- E** Feed voltmeter wire down mast and through middle opening (+) on Volt Meter to (+) on Battery: 18 AWG Red Wire
- F** (-) on Volt Meter to (-) on Battery: 18 AWG Black Wire

**** Please note:**

Make sure all fittings are tight and charger & battery are strapped down in cabinet**

1 Battery Set-Up

For Stand Alone Power Pack &
Mobile Powered Cart

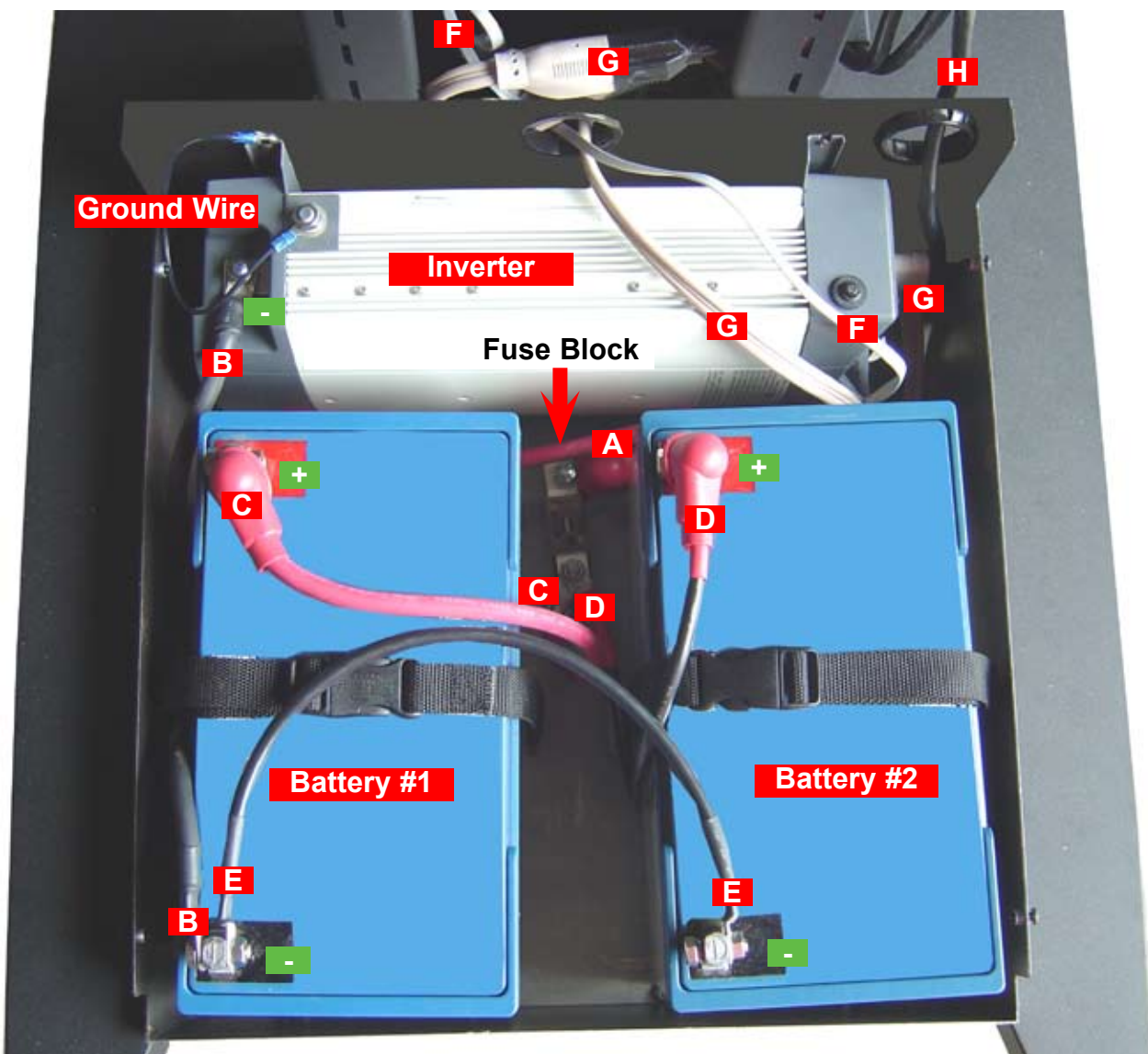


- A** (+) on Inverter to Rear Fuse Block: 11" Long 2 AWG, 5/16 Ring Both, Red Wire
- B** (-) on Inverter to (-) on Battery: 16" Long 2 AWG, 5/16 Ring Both, Black Wire
- C** (+) on Battery to Front Fuse Block: 16" Long 2 AWG, (2) 5/16 Ring Terminals, Red Wire
- D** Integrated Powerstrip Plug (located 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****

2 Battery Set-Up

For Power Pack and
NB Series Mobile Cart



- 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 PP Series Power Packages

Main Components:

1. PP Series cabinet and cover
2. Battery 40, 100 amp or (2) batteries hour sealed
3. Inverter / Charger 1,000 watt peak inverter w/ built in smart charger 20 amp or 350 watt inverter with separate 10 amp charger
4. Battery status meter
5. Nylon straps
6. Wire harness
7. Fuse block & fuse

Step 1: Remove the cover of the cabinet. Insert the nylon strapping into the slots in the base to hold the battery and inverter / charger down. These can be tightened later.

Step 2: Please refer to **Battery Set-Up Document** shown on previous pages

Step 3: Make sure the inverter is set to the automatic mode on the rear of the unit. Place the power pack cover on and secure in place with (4) #10-32 screws.



***Turn inverter off if not been used for several days as it will drain the battery.
The charger will not work if voltage in battery is below 11 volts.***

Tools required: 1/8 Allen wrench, preferably one with a long handle.

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 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.