



## Zebra Technologies Corporation

### PA400™ & PT400™ Single Battery Charger Installation Instructions

This kit includes the parts and documentation necessary to install the PA400™ & PT400™ Single Battery Charger. Read these instructions thoroughly before attempting to install this kit.

#### Reference Materials

52600L PA400 / PT400 User's Guide    505142L PA400 & PT400 Maintenance Manual

#### Tools Required

**Note:** Tools are only required for wall mounting the Battery Charger

Electric Drill    Appropriate Screwdriver for wall anchors or wall mounting screws selected.  
Drill Bit Set

#### Parts List

Table 1 lists the Single Battery Charger part numbers.

**Note:** Batteries are purchased separately. Wall mounting screws and anchors are not included in the kit.

**A specially approved power supply and power cords must be used to power the battery charger base unit. Consult Symbol Technologies for approved components.**

Table 1. Part Numbers

Part Number	Description
505160	Battery Charger Base Unit
52676	Hook & Loop Fastener (Loop)
52677	Hook & Loop Fastener (Hook)

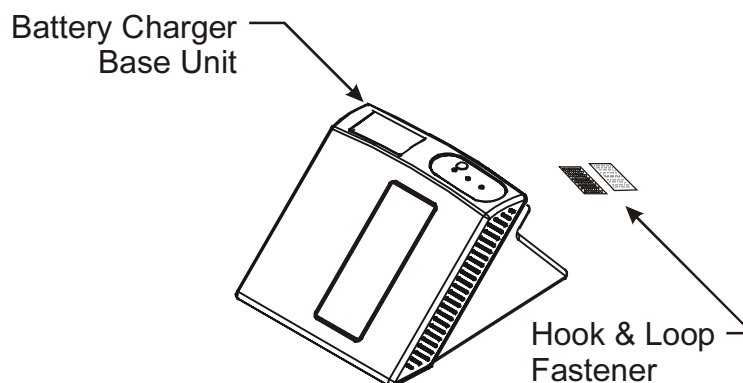


Figure 1. Single Battery Charger Kit

### Battery Charger Configuration

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#### CAUTION:

**THIS UNIT IS RATED AS A SINGLE BATTERY CHARGER ONLY. DO NOT MODIFY THIS CHARGER IN ANY WAY. ONLY USE THE POWER SUPPLY SPECIFIED AND SUPPLIED BY SYMBOL TECHNOLOGIES.**

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The *PA400* & *PT400* Single Battery Charger can be freestanding on a desk or wall mounted.

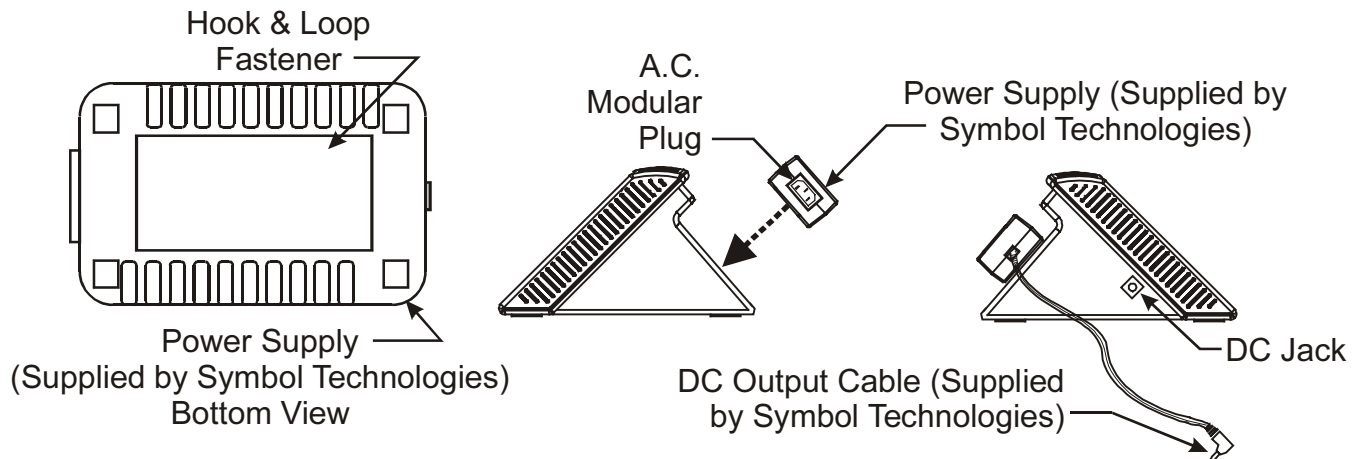
### Installation

1. Place the battery charger base unit on a flat surface. Plug the DC output cable into the power supply (both supplied by Symbol Technologies) and into the DC jack on the battery charger base unit (see Figure 2).
2. Plug the AC power cord (supplied by Symbol Technologies) into the power supply and then into the appropriate AC receptacle.
3. Proceed to the **Wall Mounting Concerns** section (if wall mounting) or the **Operation** section.

### Installation (Optional)

1. Remove the battery charger base unit and hook & loop fastener from packaging.
2. Place the two pieces of the hook & loop fastener together so that only the peel-off backing is on the top and bottom.
3. Peel off one of the backings and place the hook & loop fastener in the center of the bottom of the power supply (supplied by Symbol Technologies) (see Figure 2). Insure the hook & loop fastener adheres firmly to the power supply.
4. Peel off the remaining backing on the hook & loop fastener.
5. Place the power supply in the center of the battery charger base unit as shown in Figure 2. Insure that the DC output connector is on the same side as the DC jack.
6. Press firmly, but gently, on the power supply and insure the hook & loop fastener adheres to the battery charger base unit.
7. Plug the DC output cable (supplied by Symbol Technologies) into the power supply and into the DC jack on the battery charger base unit.
8. Plug the AC power cord into the power supply and then into the appropriate AC receptacle.
9. Proceed to the **Wall Mounting Concerns** section (if wall mounting) or the **Operation** section.

## Single Battery Charger Installation Instructions



**Figure 2. Installing the Power Supply (Supplied by Symbol)**

### Wall Mounting Concerns

1. Completely assemble the battery charger before mounting to the wall.
2. Make sure that there is enough room on the wall for the battery charger base unit and power supply.
3. The Symbol Technologies supplied AC power cord must be able to reach an outlet.
4. If mounting to drywall, use 1/4-20 hollow wall anchors of the appropriate length for the dry wall (not provided).
5. If mounting to studs or solid wood wall, use 1/4" screws of the appropriate length to support the weight of the completely assembled battery charger.



#### **CAUTION:**

**IF THE SCREWS ARE NOT PROPERLY ANCHORED IN WALLBOARD, DRYWALL, OR A VERTICAL STUD, THE WEIGHT OF THE BATTERY CHARGER COULD PULL IT FROM THE WALL.**

### Wall Mounting The Battery Charger

1. Review the **Wall Mounting Concerns** section above.
2. Using the template provided (see Figure 6), mark the two holes in an appropriate location for the assembled battery charger.

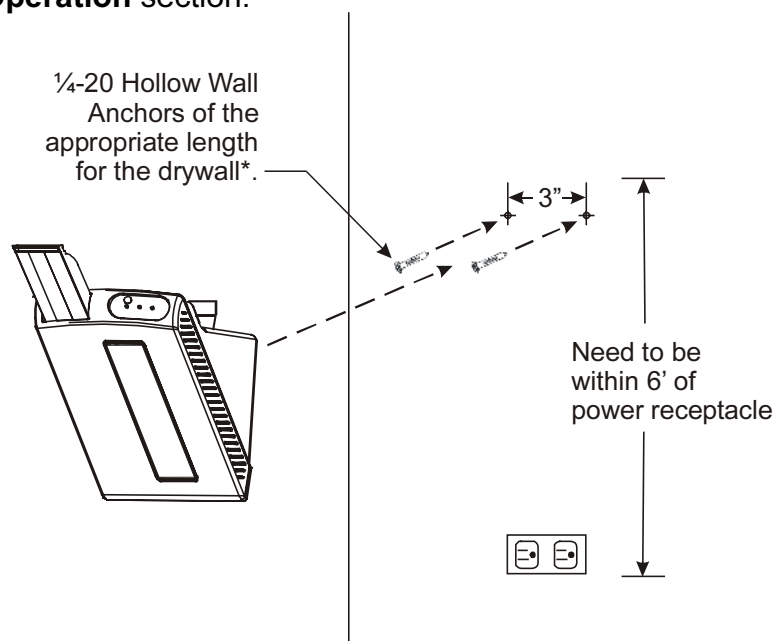
#### **For Drywall Mounting**

3. Drill two 3/8" holes in the drywall three inches apart and level (see Figure 3).
4. Insert the 1/4-20 hollow wall anchors of the appropriate length into the holes. Turn the two screws clockwise until tight (the anchors should spread as shown in Figure 4).
5. Go to step 9.

## Single Battery Charger Installation Instructions

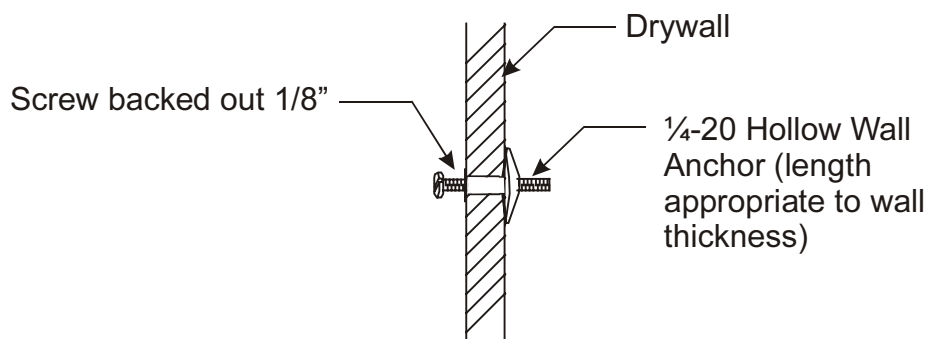
### For Solid Wood Wall Mounting

6. Drill two starter holes (the appropriate size for the screws being used) in the solid wood wall three inches apart and level (see Figure 3).
  7. Turn the two screws clockwise into the stud until tight.
  8. Go to step 9.
9. Back the two screws out 1/8".
  10. Align the holes on the back of the battery charger base unit, with the screws on the drywall.
  11. Slide the battery charger down gently until it hooks onto the screws.
  12. Go to the **Operation** section.



\*If mounting to studs or solid wood wall, use 1/4" screws of the appropriate length to support the weight of the Battery Charger.

**Figure 3. Wall Mounting**



**Figure 4. Drywall Mounting Side View**

### Operation

**Note:** Remove the AC power cord from the AC receptacle if the Battery Charger will not be used for a prolonged period.

1. Make sure the DC output cable is plugged into the battery charger power supply and the DC jack on the battery charger base unit (see Figure 2).
2. Make sure the AC power cord is plugged into the battery charger power supply and then into the appropriate AC receptacle.

### To Charge a Battery

1. Insert either a standard battery (P/N 505081) or extend life battery (P/N 505080) into the charger slot with the battery label facing the rear of the charger.
2. The battery charger automatically starts a charge sequence when the battery is installed and the green LED begins to flash (see Figure 5).
3. When the green LED stops flashing and remains illuminated, and the amber and yellow LEDs are off, the battery is fully charged.
4. See Table 2 for more LED statuses and battery troubleshooting.

### To Recondition a Battery

**Note:** It is recommended to recondition a battery every ten charges.

1. Insert either a standard battery (P/N 505081) or extend life battery (P/N 505080) into the charger slot with the battery label facing the rear of the charger.
2. Press the discharge button (see Figure 5). The amber LED will begin to flash. Once discharged, the amber LED will turn off and the green LED will begin to flash.
3. When the green LED stops flashing and remains illuminated, and the amber and yellow LEDs are off, the battery is fully charged.
4. See Table 2 for more LED statuses and battery troubleshooting.

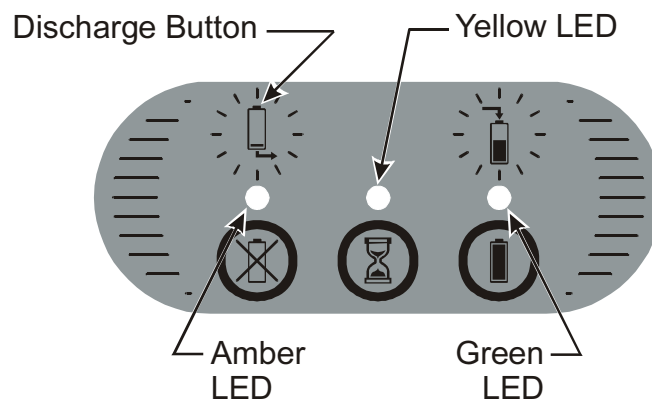
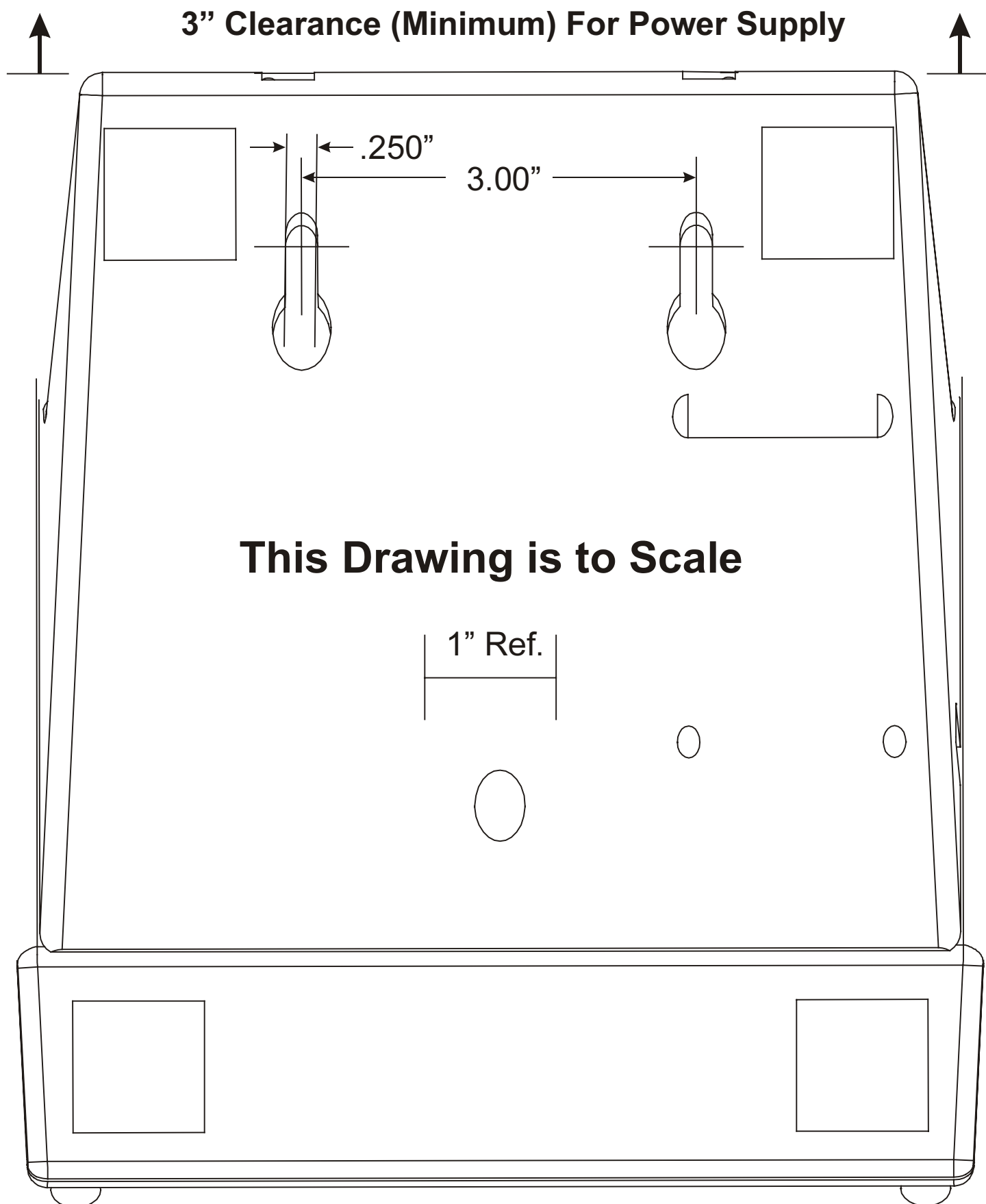


Figure 5. Battery Charger Button and LEDs

## Single Battery Charger Installation Instructions

**Table 2. LED Status Chart**

Green LED	Amber LED	Yellow LED	Battery condition	Actions required
Off	Off	Off	No battery installed.	N/A
			Battery installed	<p>Make sure battery is installed properly (with the battery label facing the rear of the charger).</p> <p>Make sure DC output connector is plugged into the DC jack on the battery charger base unit.</p> <p>Make sure the AC power cord is plugged into the battery charger power supply and then into the appropriate AC receptacle and the AC receptacle is receiving power.</p> <p>If you are not receiving 24 VDC at the output of the power supply (supplied by Symbol) (and AC input is correct), replace the power supply.</p> <p>If the above conditions are correct, the battery charger base unit is defective and needs to be replaced.</p>
Off	Off	On	Hot battery shutdown during charging or discharging.	Automatically resumes charging/discharging as soon as battery temperature returns to normal. Remove battery if condition persists.
Off	On (when battery is first installed).	Off	Battery voltage is low (below 10.0V).	Replace battery if the amber Led does not go off after 10 minutes of charging.
Off	On	Off	Battery low (<13.2v) after charging.	Replace battery.
Off	Off	Flash	Defective battery Defective charger.	Replace battery. Return charger for repair.
Off	Flash	Off	Discharging.	N/A
On	Off	Off	Battery is fully charged	None
Flash	Off	Off	Charging.	N/A
Flash	Off	On	Cold battery slow charging.	Automatically resumes fast charge when battery warms up. Remove battery if condition persists.



**Figure 6. Mounting Template**

**NOTES**