

DGK180F\FU\FP Battery Tender

Kit Contents:

- (1) Battery Tender Charger\Maintainer



- (4) Each - 8-32 x 3/4" stainless steel screw, 8-32 stainless steel flat washers and 8-32 stainless steel lock nuts.
- (1) M8x1.25x20mm stainless steel bolt
- Cable Ties



- (1) 5-Foot Power Cable Extension



- (1) DGK180F\FU\FP Battery Tender Installation Template

Tools & Materials Required:

- 9 mm combination wrench
- Masking tape
- Electrical tape
- Scissors
- Safety knife
- Center point
- Deburring tool
- 1/8" drill bit
- 13/64" drill bit
- Drill (electric or cordless)
- #2 Phillips screwdriver
- Cordless Driver with #2 Phillips (optional)
- 3/8 ratchet or driver with 3" extension
- 10 mm socket - 3/8 drive
- Side cutters
- 13 mm socket - 3/8 drive
- 1/2" ratchet wrench or equivalent

INSTALLATION INSTRUCTIONS

- Step 1: Verify Kit Contents
- Step 2: Read through installation instructions before beginning the procedure.
- Step 3: Release the Left Enclosure Right Door latch, then open the right enclosure door. (Figure 1)



Figure 1

- Step 4: Remove nut and washer securing NEGATIVE battery cable to NEGATIVE terminal using a 13mm wrench. (Figure 2)



Figure 2

- Step 5: Position the negative battery cable out of the way, then reinstall washer and nut to battery terminal. (Figure 3)



Figure 3

- Step 6: Prepare battery tender installation template for use; using scissors or safety knife, cut out the template following the dashed lines.

- **Step 7:** The Battery Tender is to be mounted to the Center Frame Right Side Vertical Mounting Bracket, opposite side from the battery. Align the bottom and right edges of the template with the bottom and left edge of this mounting bracket as shown. Tape the template into place. (Figure 4)

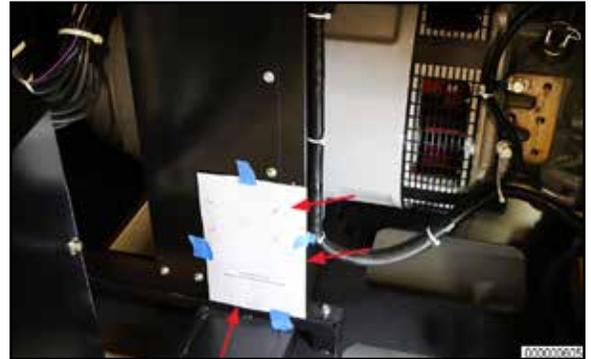


Figure 4

- **Step 10:** Follow the notes on the template; first use a center point to mark the hole locations, then using a drill and a 1/8" drill bit, drill four pilot holes through the template into the Center Frame Right Side Vertical Mounting Bracket, then enlarge the holes using a 13/64" drill bit. Remove the template, then debur the holes.
- **Step 11:** Attach the Battery Tender to the Center Frame Left Side Vertical Mounting Bracket using the four (4) bolts, four (4) flat washers and four (4) locknuts supplied in the kit. The washers and lock nuts are used on the backside of the Vertical Mounting Bracket. Snug the bolts only. (Figure 5)



Figure 5

- **Step 12:** Route the battery tender A/C power cable down along the existing cables, securing it to the existing power cables, then over and connecting it to one of the existing Shore Power receptacles. Tape the joined plugs (Battery Tender A/C Power Plug and Shore Power Receptical) to prevent them from possibly becoming disconnected. Secure the power cable using cable ties as shown. (Figure 6)



Figure 6

- **Step 13: Attach one end of the Power Cord Extension to the Battery Tender Power Cord, then wrap the plugs with electrical tape to prevent them from possibly becoming disconnected. (Figure 7)**



Figure 7

- **Step 14: Locate the Battery Tender to Battery Cable in kit. (Figure 8)**

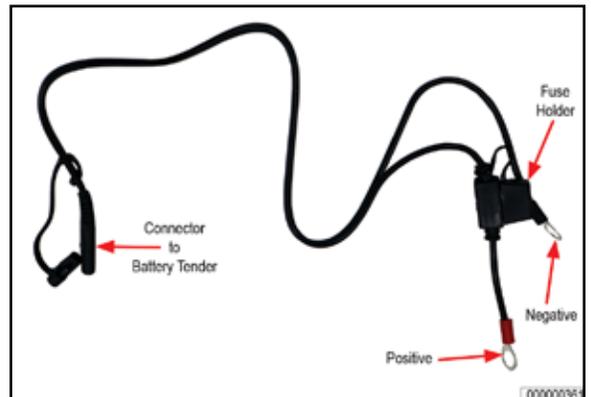


Figure 8

- **Step 15: Connect plug ends (from Battery Tender to the the Battery Cable Ends). To prevent plugs from separating, secure with electrical tape. (Figure 9)**



Figure 9

- **Step 16: Route the Battery Tender Power Cord over and up, following the existing cables, then crossing over above the alternator. Secure the power cable to the existing cables using cable ties. Remove excess cable tie material. (Figure 10)**



Figure 10

- **Step 17:** Route the Power Cable down and behind the left air cleaner stand bracket, bringing the power cable out from under to the batteries. Secure in place using cable ties. Remove excess cable tie material. (Figure 11)



Figure 11

- **Step 18:** Using a 1/2 inch ratchet wrench, remove the POSITIVE Battery Bolt and discard the bolt. Route the red wire from the Battery Tender to Battery Cable through the RED terminal cover, then combine RED wire lead from Battery Tender connector with cable (as shown). Attach to POSITIVE side of battery with new bolt from kit and using a 13 mm ratchet wrench. DO NOT OVERTIGHTEN - Snug bolt. Secure the fuse holder to the battery cable using a cable tie. (Figure 12)



Figure 12

- **Step 19:** Route the Negative Battery Tender Lead along the Negative Battery Cable. Secure in place using cable ties. Secure excess battery tender power cable in place using cable ties. Remove excess cable tie material. (Figure 13)



Figure 11

- **Step 20:** Remove bolt and lockwasher from NEGATIVE battery terminal. Reposition and reattach NEGATIVE battery cable to NEGATIVE battery terminal, adding the new negative wire lead from Battery Tender to Negative battery cable. Secure the bolt and washer using a 13mm wrench. DO NOT OVERTIGHTEN bolt - Snug only.
- **Step 21:** Close all the enclosure side doors making sure the latches are fully engaged.

Installation of the Battery Tender is now complete.