

## AWNINGS

## Introduction

The intent of this document is to provide instructions on how to remove a KZ Solera Smart Arm and replace it with a Power Awning arm.

## Safety

**⚠ WARNING**

The "WARNING" symbol above is a sign that the installation procedure has a safety risk involved and may cause death, serious personal injury, product or property damage if not performed safely and within parameters set forth in this manual.

**⚠ CAUTION**

Always wear eye protection when performing service or maintenance to the trailer. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the service.

**⚠ CAUTION**

Moving parts can pinch, crush or cut. Keep clear and use caution.

## Resources Required

- 1-2 People, depending on task
- Cordless or electric drill or screw gun
- Appropriate drive bits
- Cordless drill battery
- Zip ties
- Screwdriver
- Wire cutters/Strippers
- Wire caps
- Silicone sealant or tape

## Instructions

**NOTE:** This manual will refer to the "drive side" and "idler side" throughout for various instructions. The "drive side" is the right hand side of the awning when facing the awning from the exterior of the unit. The "idler side" is the left hand side of the awning when facing the awning from the exterior of the unit.

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### Smart Arm Removal

1. Open the awning completely.
2. Disconnect power to the awning.

**NOTE:** Make sure to mark which wires are connected to the light switch, the motor switch and which are constant power.

3. Cap off the constant power wire so it does not blow a fuse.
4. Remove the wires from the wall and check the light wire coming out of the unit. Make sure it has a ground wire that is capped off, while the power wire is connected to the green wire for the light. The light wire from the unit will be attached to the green wire in the Smart Arm controller. If no ground wire is present, use the ground wire from the constant power wire to connect the new arm.
5. Remove the wire cover, connector small wire cover, snap clip and Smart Arm controller to access the lag bolts that secure the awning arm to the unit wall. Remove the lag bolts in the bottom and middle of the arm. Retain the lag bolts for later use.

**NOTE:** In some instances pop rivets may have been utilized. These fasteners will need to be replaced.

6. Locate the pin at the top of the wall mount and cut the larger of the two black wires (Fig. 1), which runs into the bottom of the motor mount/head. Then pull the wire out of the inner arm.

Fig. 1

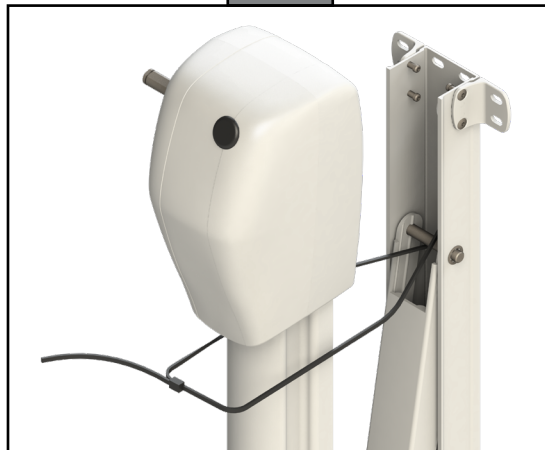


7. Take the cut wire and connect it to a cordless drill battery to start closing the awning. Stop when it is about a foot from being fully closed.

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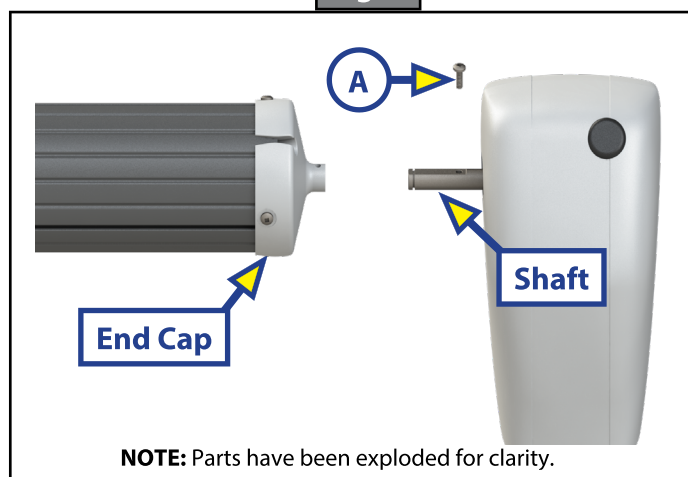
8. Secure the arm, so it will not kick open, by tying a zip tie around the pin in the top of the wall mount and going around the outer arm, right below the head assembly (Fig. 2). Repeat this process for the idler side.

Fig. 2



9. At the motor side, have someone hold the roll tube, then remove the wax screw (Fig. 3A) that secures the end cap to the shaft coming out of the motor head. Retain the wax screw for later use.

Fig. 3



10. Remove the lag bolts that secure the Smart Arm to the unit at the top. The arm can now be removed from the unit. Retain the lag bolts for later use.
11. Lay the Smart Arm on a safe work area and install a second zip tie in the middle of the arm to ensure it will not come open while the motor head is being removed.
12. Remove the Phillips head bolt holding the motor head to the main arm. Retain bolt for later use.
13. Disconnect the power wire from the motor.

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### Power Awning Arm Installation

1. Install the motor head onto the new arm by first connecting the power wire from the new arm into the motor.
2. Tuck the power wire down inside the motor mount so it will not get pinched, then slide the motor mount into the new Power Awning arm and secure it with the Phillips head bolt (Fig. 4A) that was removed in step 12 of the Smart Arm Removal.
3. Slide the shaft from the new motor arm into the end cap of the roll tube and secure it with the wax screw (Fig. 4B) that was removed from the original arm.

**NOTE:** Keep the head of the wax screw  $\frac{1}{8}$ " from being fastened to avoid compromising the structural integrity of the wax screw.

4. Secure the top of the new Power Awning arm to the wall of the unit with two of the retained lag bolts (Fig. 5).

Fig. 4

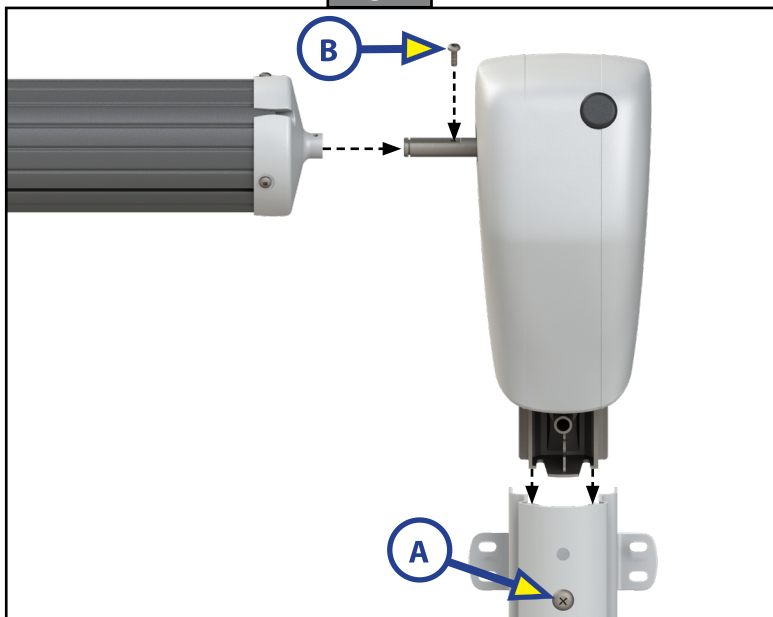
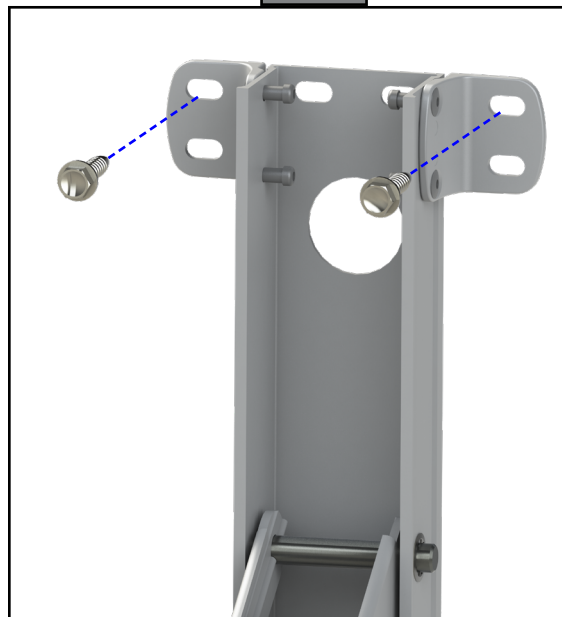


Fig. 5



5. Cut the zip ties that are holding the Power Awning arm closed.

### ⚠ CAUTION

**Hold the outer arm when cutting the zip ties, so it does not open too quickly.**

6. Remove the zip tie from the idler arm.
7. Connect the power wire from the motor to a cordless drill battery then run the awning open to perform the rest of the procedure
8. Finish securing the Power Awning arm to the unit with the retained lag bolts—with two bolts in the middle of the arm and two bolts at the bottom.

**NOTE:** New rivets may be needed to replace those previously removed.

9. Pull the wires from the unit through the support arm assembly. These wires may be located at the bottom or the top of the support arm assembly. Connect the motor wire to the motor switch.

**NOTE:** Check the manual rocker switch for normal operation. If the awning is running in reverse of what the switch indicates, reverse the wires.



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**NOTE:** To prevent pinching wires, make sure all the wires are routed on the outside of the pin that secures the pitch arm to the mount arm.

10. Connect the light wire to the light switch, making sure the red wire goes to the power wire from the switch. The black wire from the light should go to the ground coming from the switch.

**NOTE:** If there is no ground wire, the ground wire from the constant power feed that was capped off in step 6 of the Smart Arm Removal section can be used.

11. Seal all lag bolts and the hole where the wires come out of the unit with silicone sealant or tape.

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