

## **4-17 Electronic Step**

## 4-17 Electronic Step

### 4-17.1 Description and Operation

The coach is equipped with a single electronic step that automatically extends when motor home door is open and also has a switch just inside the door that enables the step as well.

The control unit is essentially a current sensor as well as a switching device. When the motor assembly moves the step tread to its extended position, or stops moving because of an obstruction such as a curb or the binding of a damaged or bent step frame, the motor draws a larger amount of current. The control unit "senses" the larger current draw and shuts off power to the motor.

All control units are equipped with an "ignition override system". This system is designed so that the coach will not be driven with the step in the extended position. When the step is locked in the extended position, the door is closed, and the ignition is turned on, the ignition override system will engage and then the step will automatically retract.

The "Last Out" feature is another safety feature designed to extend the step when the door is opened for the first time after the coach ignition is turned off, even if the power switch is turned off. When the ignition is switched on, the function of the power switch is disabled and the step will always extend when the door is opened and retract when the door is closed.

**NOTE:** Follow the instructions in this manual carefully. Failure to do so may result in damage to the step control, the motor and/or the coach wiring. Such damage may also result in voiding the warranty.

#### 4-17.1.1 Operating the Step

1. After the installation is complete and with the entrance door open, turn the power switch on.

**NOTE:** Some steps are not equipped with a power switch. They are activated only with a door switch.

2. Close the door. The step should retract and lock in the "up" position.
3. Open the door. The step should extend and lock in the "down" position with the understep light on.

**NOTE:** The understep light is not available on all step models.

4. If your step is equipped with a power switch, turn it off. The step should remain in the extended position with the understep light off when the door is closed. Turning off the power with the step retracted will hold the step in a retracted position as well.
5. With the power switch off, the step extended, and the entrance door closed, turn on the coach ignition. The ignition override system will go into effect and the step will automatically retract.

**NOTE:** If the yellow wire from the four-way connector is not connected to an ignition power source, the ignition safety system will be inoperative and the step will remain in the extended position. In this case, the power switch must be turned on for the step to retract.

**▲WARNING:** If the coach is driven with the step in the extended position, there is the possibility of causing major damage to both the step and the coach.

6. Turn the coach ignition off and open the door. The step will extend and lock in the "down" position. This is the "Last Out" feature.
7. The "Last Out" feature is only operative the first time the door is opened after the coach ignition is turned off.

When the coach ignition is on, the step will always activate with the door movement, regardless of the power switch position.

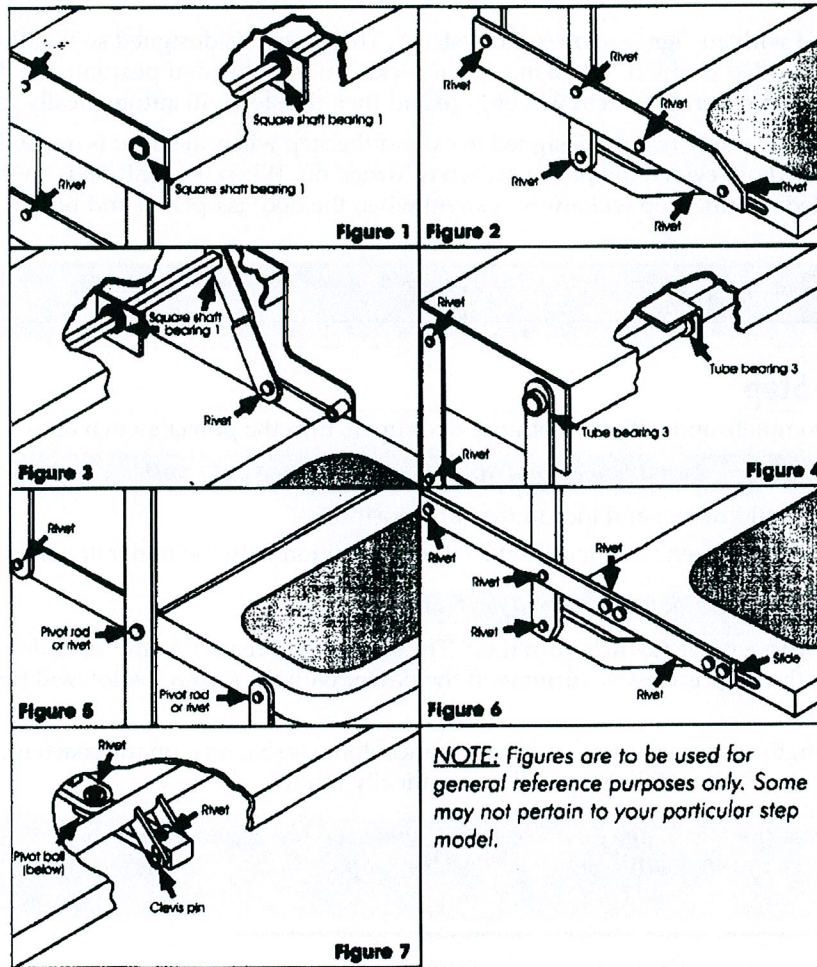
**NOTE:** If the yellow wire from the four-way connector is not connected to an ignition power source, the "Last Out" feature will not operate.

**BE SAFE. ALWAYS LOOK BEFORE YOU STEP OUT OF YOUR COACH.**

## 4-17.2 Maintenance and Lubrication

Clean all must, salt, and road grime from the step before lubricating. Lubricate all moving parts (bearings, pivot points, slides, clevis pin, and drive linkage ball) every 30 days with a good quality moisture and heat resistant penetrating grease. KwikLube™ Spray Grease is specially formulated to lubricate Kwikie Electric Steps and is recommended for lubricating all moving parts. Refer to the figures below for lubrication locations.

**NOTE:** Silicone lubricants and WD-40 are not recommended as they have a tendency to evaporate and dry the mating surfaces, which leave them vulnerable to the elements.



**NOTE:** Figures are to be used for general reference purposes only. Some may not pertain to your particular step model.

1. **Figures 1 & 3** – square shaft bearing – lubricate around outside and under head of bearing.
2. **Figure 4** – on step models equipped with plastic cover, this cover will have to be removed to lubricate center bearings. Lubricate bearings under cover every 90 days.
3. **Figure 4** – Lubricate around the bushing-in-bushings.
4. Maintain clean, dry electrical connections at the two-way and four-way connectors and any butt connections leading from the four-connector to the coach. A small dab of di-electric grease at the connections and replacing corroded butt connections with heat shrink type crimp style automotive connectors will help maintain a good electrical source for the step.