Replacement of 140-1249 control with a 140-1249S or 1510000165 control

Introduction

Slide-out control number 140-1249 is now obsolete. Part orders for a 140-1249 will have current control number 140-1249S or 1510000165 shipped as a direct replacement.

This tip sheet will guide you through replacement and programming of the 140-1249S or 1510000165.

The 140-1249S and the 1510000165 are functionally the same control except for the following visual differences:

- The 1510000165 control has “flying” electrical connection leads (see FIGURE 2) while the 140-1249S has electrical connectors on the control board (see FIGURE 1).
- 140-1249S has visible red colored FIELD RESET buttons that could be pressed with your finger tips (see FIGURE 1). On the 1510000165 the FIELD RESET buttons are now labeled O and I. They are recessed into the control and they must be pressed with something small such as the end of a paper clip.

To complete the steps outlined in this procedure, you will need the following:

- Programmer/Teach Pendant (see FIGURE 3), part number 140-1176 (available for purchase through Power Gear).
- This Tip Sheet, #82-S0510

Installation

Installation of new control:

1. Mark all existing harness connections at the slide control mounting location.
2. Unplug all harness connections from the existing control.
3. Install the replacement control in the same location.
4. Connect the main power and ground wires to the control box terminals. BE SURE TO CONNECT THE GROUND WIRE FIRST.
5. Reconnect all of the previously marked harnesses into the new control. Verify all harnesses are connected into the proper location on the control.
6. You are now ready to program the control using the teach pendant (FIGURE 3).
Programming the new control

1. Make sure all obstructions are out of the path of the slide-out and room locks are in the stowed position or retracted position which is flat against the slide-out wall.
2. Run the coach engine and verify the incoming voltage to the slide-out control box between the BATTERY (–) and BATTERY (+) at control box terminals (see FIGURE 4, page 3). The incoming power needs to be +13.1V DC or more.
3. Connect the programmer/teach pendant as follows:
   a. Insert the programmer end of the harness into the PROGRAMMER/TEACH PENDANT (see FIGURE 5, page 3).
   b. Insert the controller end of the harness into the connector labeled SWITCH (PROGRAMMER) on the slide-out control board (see FIGURE 4, page 3).
   c. Insert the room lock connector of the programmer/teach pendant harness into the connector labeled ROOM LOCKS on the slide-out control board (see FIGURE 4, page 3).
4. Move the Teach /Run switch to Run.
5. To enter programming mode, remove the foil sticker covering the O and I buttons on the new control (see FIGURE 6, page 3). Using a paper clip (or similar item) simultaneously press the O and I buttons located on the slide out controller for 5 seconds (see FIGURE 7, page 3). Press firmly. It is not necessary to replace the foil sticker.
6. Move the Teach /Run switch of the PROGRAMMER/TEACH PENDANT to Teach.
7. Testing each motor direction: check one motor at a time to verify that each motor moves in when MOVE IN is pressed and out when MOVE OUT is pressed.
   a. Switch M 1 to Run and all the others to Off. Momentarily press the MOVE IN button to see if the M1 motor moves the slide out in. If not switch the direction with the A-B direction switch under M1.
   b. Switch M 2 to Run and all the others to Off. Momentarily press the MOVE IN button to see if the M2 motor moves the slide out in. If not switch the direction with the A-B direction switch under M2.
   c. Switch M 3 to Run and all the others to Off. Momentarily press the MOVE IN button to see if the M3 motor moves the slide out in. If not switch the direction with the A-B direction switch under M3.
   d. Switch M 4 to Run and all the others to Off. Momentarily press the MOVE IN button to see if the M4 motor moves the slide out in. If not switch the direction with the A-B direction switch under M4.
8. After confirming the direction is correct for all the motors, switch them all to Run. Run all the motors IN until they are in the fully retracted position, turning off individual motors as necessary to achieve a good seal. The controller will not accept a stop point from a stalled motor, so the seal should be approximately 50% crushed. Press the SET IN button to store the IN position.
9. Run all the motors OUT until they are in a fully extended position, turning off individual motors as necessary to achieve a good seal. The controller will not accept a stop point from a stalled motor, so the seal should be approximately 50% crushed. Press the SET OUT button to store the out position. The PROGRAMMER/TEACH PENDANT should no longer operate in the teach mode at this point. Test this by pressing IN or OUT. If the room moves, the control was not programmed correctly. Return to STEP 4 to restart the programming procedure. If the room does not move, programming is complete, proceed to step 10.
10. Move the Teach/Run switch to the Run position. Cycle the room IN and OUT to verify that the control held the stop points.
11. If you need to re-teach the stop points, repeat step 4-10.
12. Remove plugs from the control marked SWITCH (PROGRAMMER) and ROOM LOCKS and reinstall the coach wiring harnesses into the slide out control connectors.
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Figure 4

Figure 5

Figure 6 Foil sticker

Figure 7 Pressing the O and I buttons
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I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!

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