



CompuDobby III Instructions for Solenoid Replacement

Tools Required:

- 1 Small phillips screwdriver
- 1 Medium phillips screwdriver
- 1 Wire snips or scissors
- 1 Push pin or other small tool with fine tip

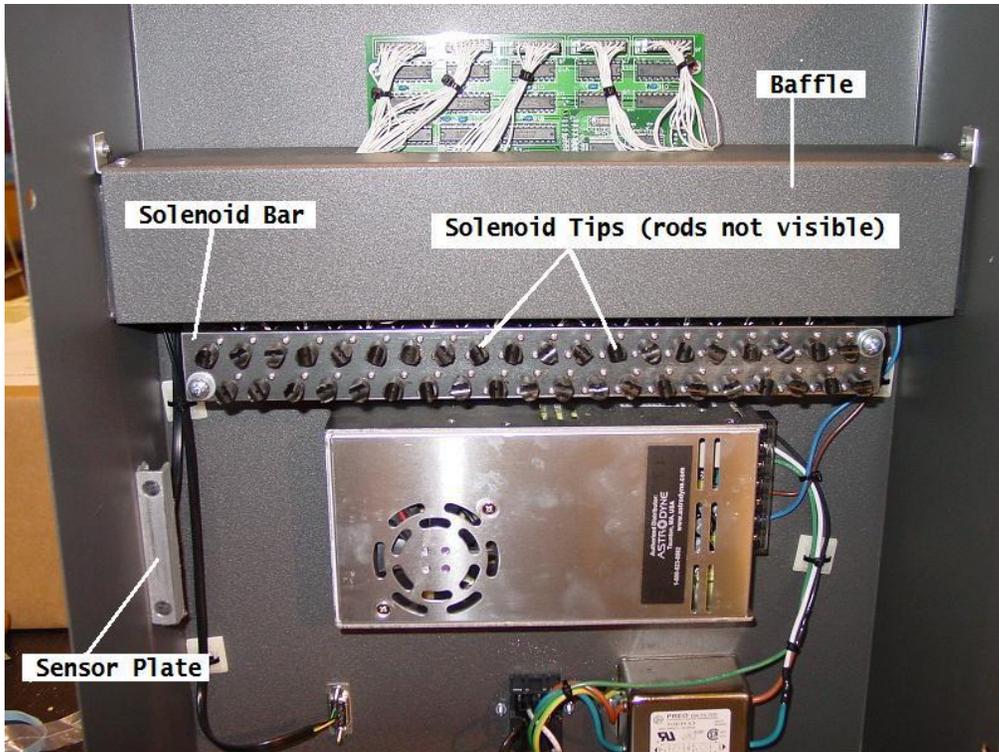


Figure 1 - CompuDobby III – Interior View

1. Carefully identify and mark the Solenoid to be replaced. If using the harness count to make the identification, remember that, when off loom and looking into the box, the Solenoid on the far left is #1. Solenoid #2 will be the first presented in the next row, off-set from the first row, etc.
2. Turn off power to the CompuDobby and unplug all connecting cables. Remove it from the loom to a stable work surface.
3. Remove the Baffle from the Box by removing the two small screws at either side of the exterior housing. *See Figure 1.*
4. Hold the Solenoid Plunger to stabilize it, using needle-nose pliers and a piece of fabric or leather to prevent scarring the Plunger Rod, and carefully remove the plastic Tip from the Plunger. Take care not to bend the Plunger during this procedure.



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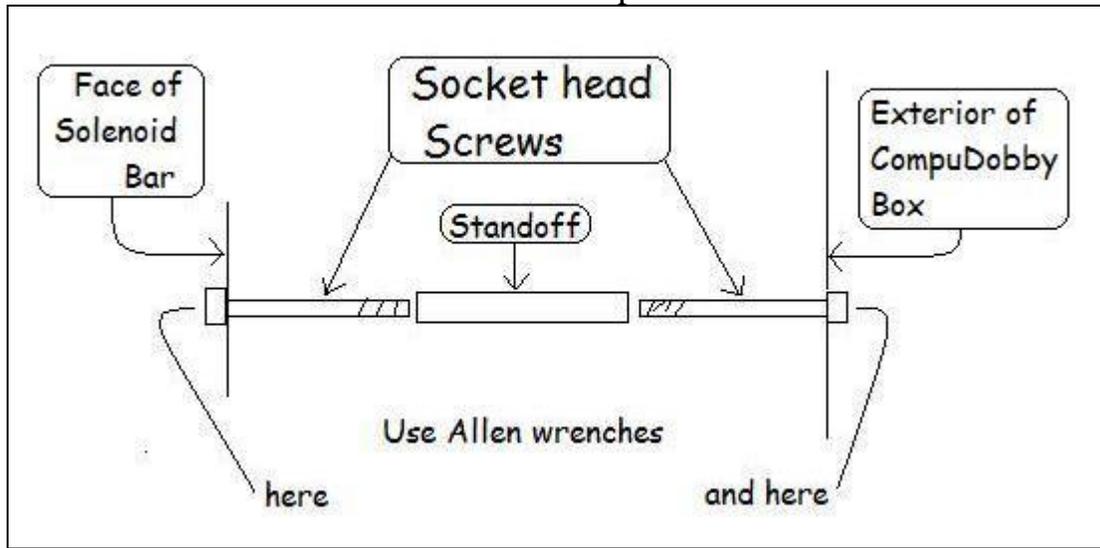


Figure 2 – Mounting Hardware for the Solenoid Bar

5. Loosen the two interior screws that hold the Solenoid Assembly to the Box and carefully pull the Assembly free of the stand-offs. Do not loosen the exterior screws for this Assembly or you may lose the alignment of the Solenoids with the Dobby Wires. Once the Assembly can be pulled out from the back of the Box, the Plungers, Springs, and any Mylar washers will slide freely out of the Bar and may be lost. So, keep the Assembly at an angle with the length of the Plungers (the end that holds the Tip) pointing down. See Figure 2.
6. Gently remove the Plunger, and Spring from the Solenoid in question.
7. Remove the two small screws that hold the Solenoid Housing in place on the Face of the Solenoid Bar.

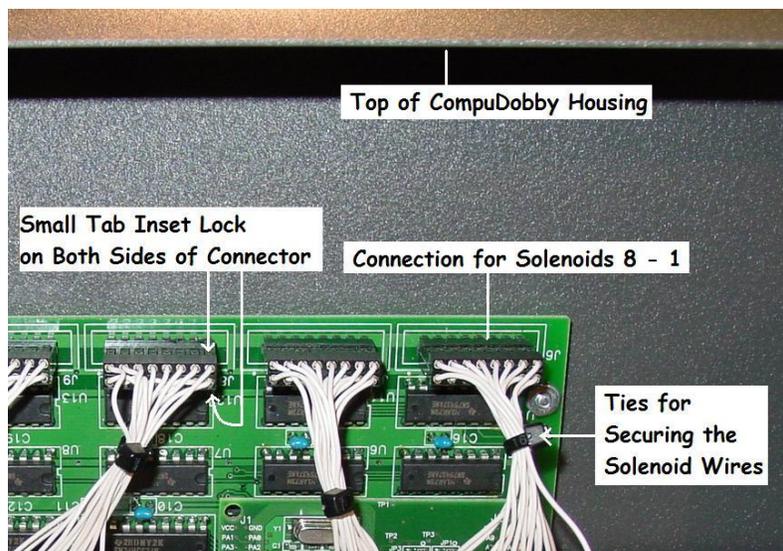


Figure 3 – Solenoid Connections



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8. Follow the path of the two wires leading from the Solenoid up to the black rectangular Connector at the green board, snipping the little ties that bundle the wires as you proceed. *See Figure 3.*
9. Gently pull the black Connector from the board. Looking closely at both broad sides of the plug, you will see a small tab inset for each wire.
10. Insert the tip of a push pin or other small, stiff tool, into the tab that holds one of the two wires from the Solenoid. Lift the tab and gently pull the wire out of its hole. Do not lift the tab any further than required to release the wire, or the Connector may be damaged and require replacement. Once the wire is free, use the tip of the pin to push down on the tab, resetting its tension.
11. Repeat Step 10 on the other side of the Connector to remove the second wire and reset the tab.
12. Insert the little metal tip of each new wire into these holes. You will feel a small click-click when they are in place. Give each a slight tug to ensure they are properly seated.
13. Collect the loose wires and bundle them, if you wish, like the others. It is important that the wires are guided up, toward the Green Board Connections, and are not allowed to dangle in the area of the Rods and Springs. If the wires are allowed to interfere with the action of the springs and rods, these parts may be compromised or damaged.
14. Reconnect the Connector to the green board, being careful to align the pins on the board with the holes on the plug. Check that no pins are exposed at either side of the plug when in place.
15. Return the Solenoid Housing back to the Solenoid Bar and replace the two screws.
16. Slide the Spring back onto the Plunger and insert this assembly back into the larger hole of the Solenoid, gently pushing the narrow tip out through the smaller opening.
17. Re-mount the Solenoid Bar into place on the two standoffs.
18. Replace the Tip, using the procedure outlined in #4, above. Check to be sure that the Tip is not pushed further down on the Plunger than those on adjacent Plungers, or not far enough.
19. Using the other bundled wires as an example, re-bundle the loosened wires with the small ties provided. Tighten only to bundle the wires securely. Do not over-tighten, as this may cause critical damage to the wires. Take care that the freshly bundled wires will not impede the action of any Solenoids.
20. Replace the Baffle. Your CompuDobby is now ready for testing and remounting to the loom.

Should you have any questions, please contact Customer Service at 530-893-4915, ext. 237 or ext. 227.