

This kit includes all of the parts required to upgrade your Rev B. or Rev C. Growbot with the new metal chassis.

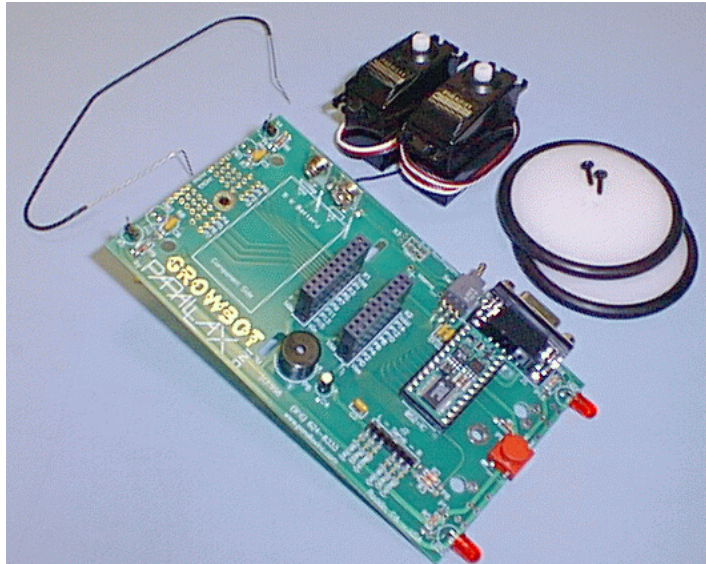
Tools Required: Small phillips screwdriver Soldering Iron and solder
 ¼ inch wrench or small pliers Wire strippers
 solder wick or a de-soldering pump (solder sucker) is recommended

Initial Disassembly:

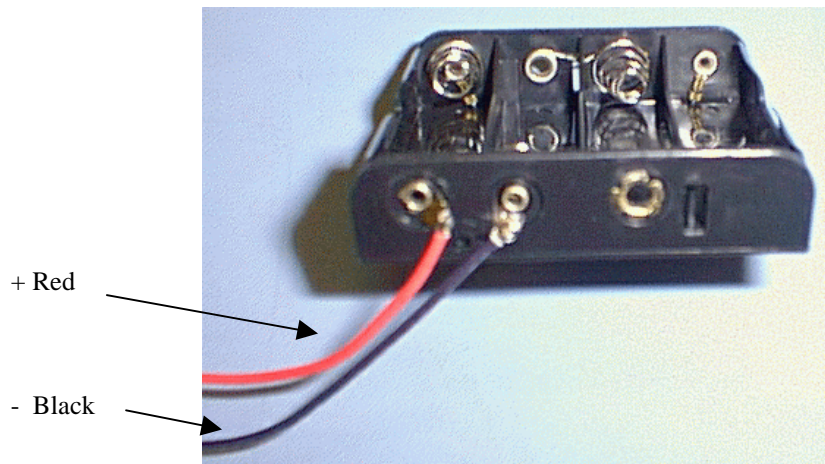
1. Remove 9V and AA batteries from your Growbot.
2. (Reccommended) Remove the bumper wire.
3. Unplug the servo connectors and remove the servos.
4. Peel the velcro off of the servos and (optionally) off of the PC board.
5. Remove the two standoffs and screws from the Growbot PC board.
6. Remove the wheels from the servos.

The next three steps require a soldering iron. You may find a de-soldering pump (solder sucker) or solder wick helpful for step 7 and 8.

Growbot parts ready for new chassis

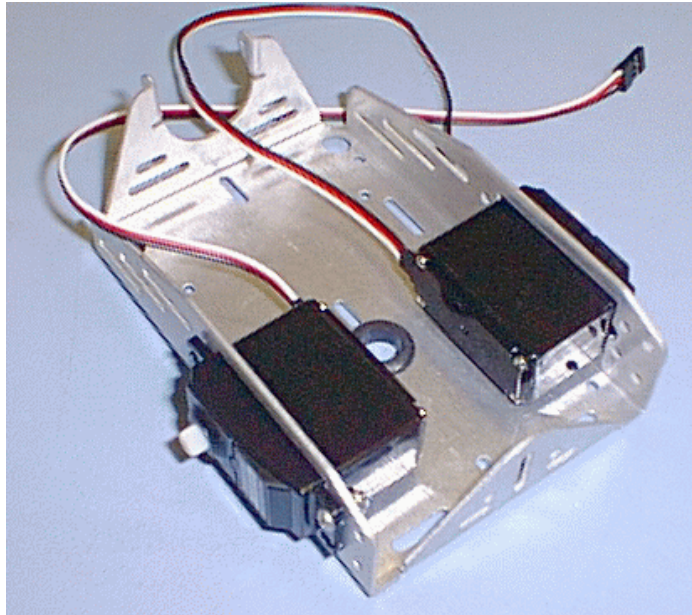


7. De-solder and remove the tail wheel assembly.
8. De-solder and remove the AA battery box. Make sure the holes, marked "+" and "-" are open so that the new power wires can be inserted later.
9. Solder the red and black wires to the new battery box as shown.

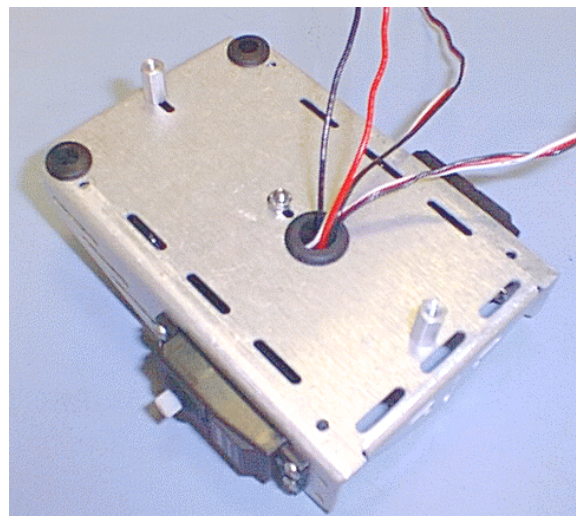
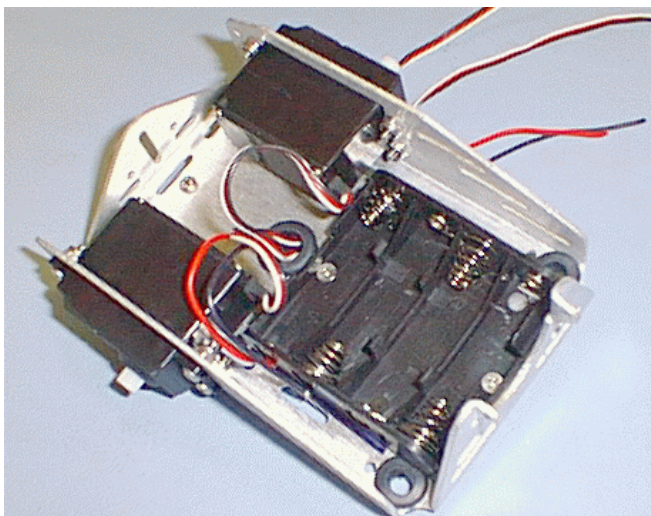


Chassis Assembly

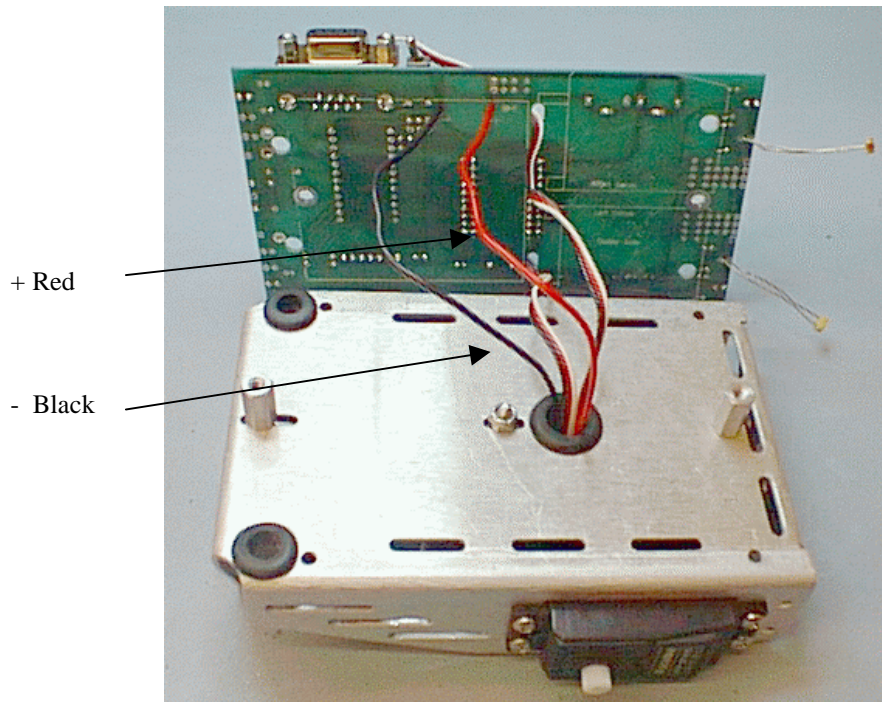
10. Install the servos into the chassis with (8) 3/8 inch 4-40 screws and locknuts.
11. Install the large grommet in the center hole. Two smaller grommets are optional for the smaller holes.



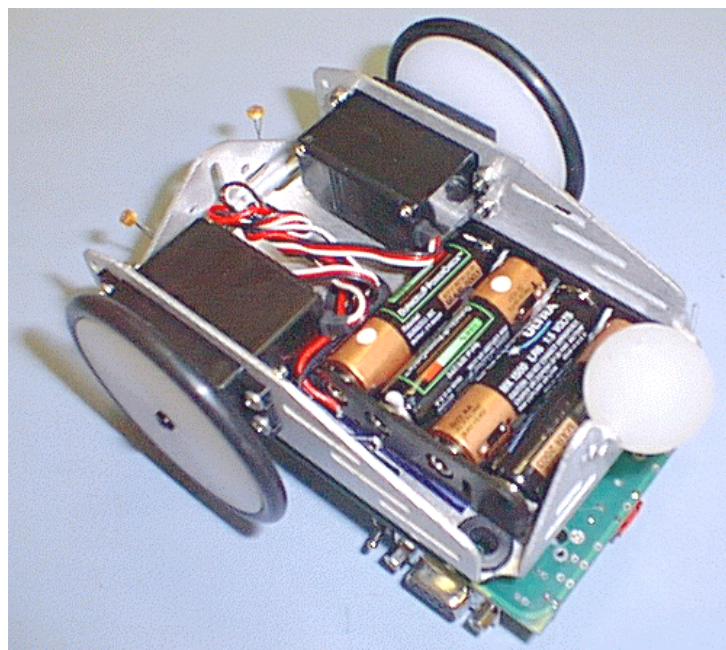
12. Install a 1/2 inch long standoff at the front of the chassis with a 1/4 inch long 4-40 screw.
13. Install the battery box with (2) 3/8 inch long flat head screws, (1) 1/2 inch standoff and (1) locknut. Use the Growbot PC board as a gauge to make sure the battery box and standoff are positioned correctly before tightening the screws.
14. Feed the servo and battery wires through the large grommet.



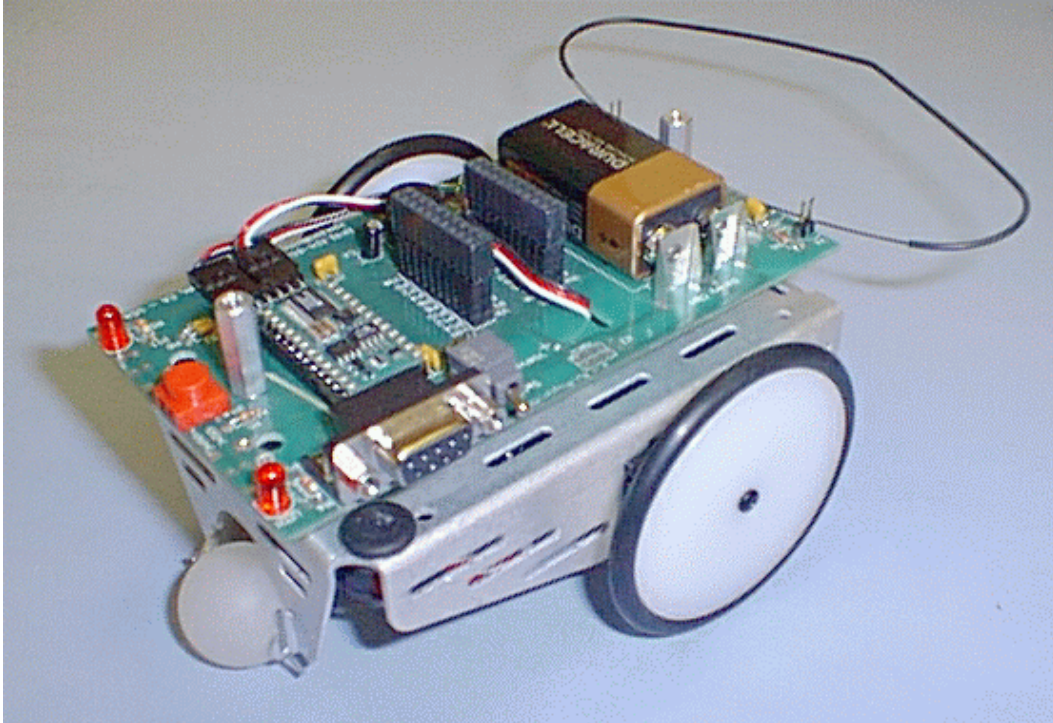
15. Cut the battery wires so that about 6 inches extends out of the grommet and strip about ¼ inch of insulation from the ends.
16. Insert the servo wires through the slots in the Growbot PC board and plug in the connectors. This is the easiest time to make sure that the left and right servos are plugged in correctly.
17. Place the battery wires into the holes previously used by the old battery holder. Make sure the Red wire is in the “+” hole and the black wire is in the “-“ hole.



18. Secure the Growbot PC board on the chassis with (2) ¾ inch threaded standoffs provided. During this process you may wish to pull the excess battery and servo wire back through the grommet and bundle it under the chassis.
19. Re-attach the wheels to the servos.
20. Install the tail wheel ball using the supplied cotter pin. Bend one or both ends of the pin to retain it.



21. Re-attach the bumper wire.
22. If installed, check that the photoresistor wires are not shorted together, or shorted to the chassis.
23. Install the 9V battery and verify that the BASIC Stamp works, and then install the (4) AA batteries.



Finished !

If you have any questions please contact us:

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Note: The Rev B Growbot PC board is not compatible with AppMods because the pinout is reversed. If you wish to use any of the AppMods please contact Parallax receive a free replacement kit with the new PC board and required components. The revision letter is located in the corner of the PC board next to the DE-9 serial connector.