



Repair Guide

Here are quick instructions of how to disassemble the ZIPmow machine to make internal repairs. This includes replacing motors, replacing the main board, and resetting the board to use with a new Remote Control.

INITIAL STEPS

- Wear protective gloves.
- Use an electric drill if available. You will need small, medium and large Phillips head bits.
- Place the ZIPmow upside down on your workbench.

REMOVE BLADES

- Place the 3 blade covers onto the blades.
- With a large Phillips, remove the 2 screws from each blade and slide each blade off.



REMOVE DRIVE WHEELS

- Pull off the yellow hub caps from the back wheels.
- With a large Phillips, loosen the 3 screws and pull off each of the back wheels.

This is required for access to all body screws. It also makes it safe to test without the mower rolling off the workbench.



REMOVE BODY SCREWS

There are a total of 15 screws mounting the top cover to the cutting deck. There are 7 tiny screws around the back.

There are 8 small screws under the cutting deck. Please notice they are of different lengths.

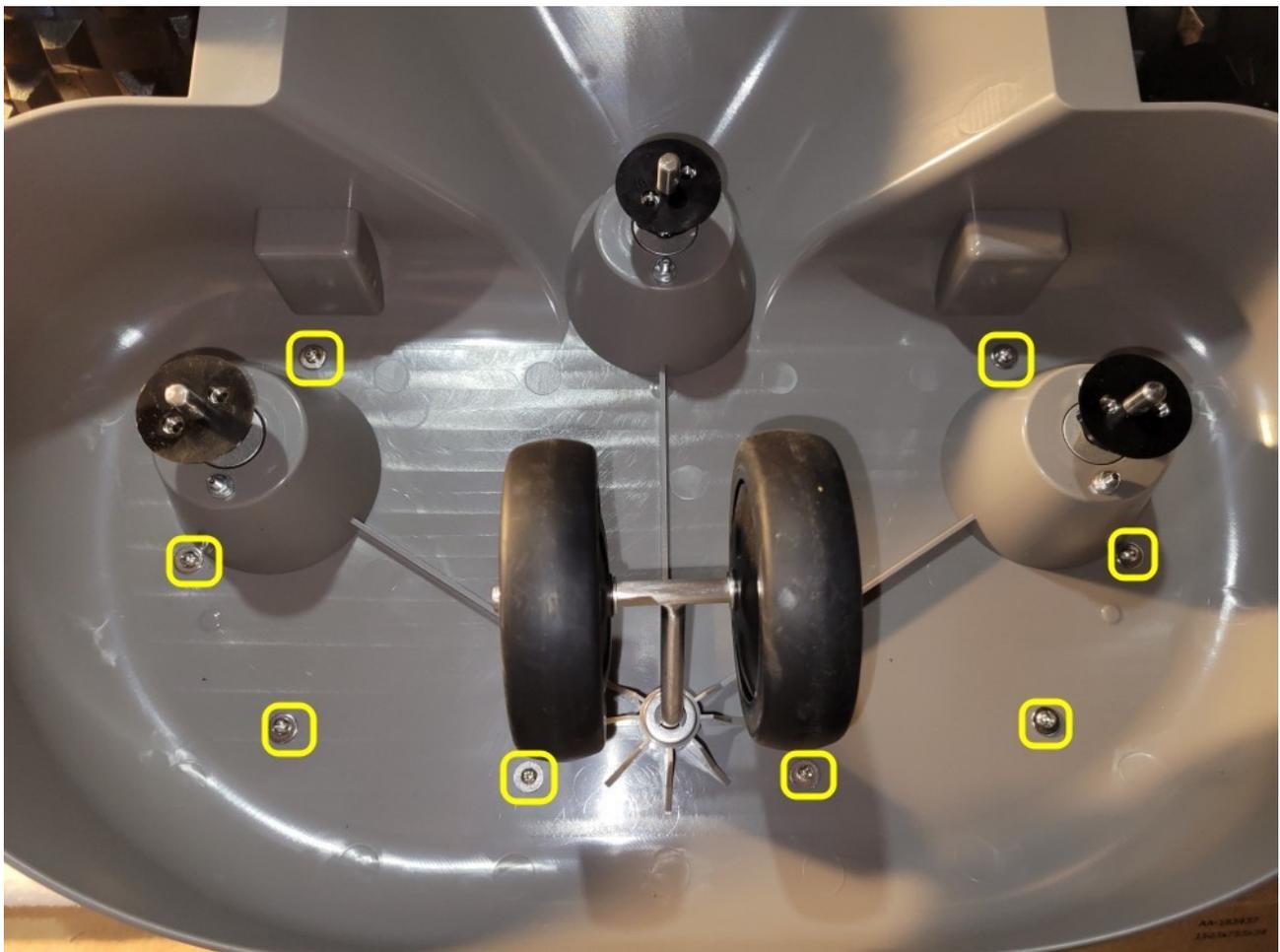


- With a small Phillips, remove the 7 tiny screws around the sides and back of the mower.

- With a medium Phillips screwdriver, remove the 8 small screws under the cutting deck. There are 3 lengths of screws that need to go back into the same location.

- 2 short screws in the front row.
- 2 medium screws next row.
- 4 long screws in the last 2 rows.

You must keep track of these screw sizes for when you re-assemble the machine.



- Also, please clean the plastic pieces stuck in the screw threads before re-installing the screws.

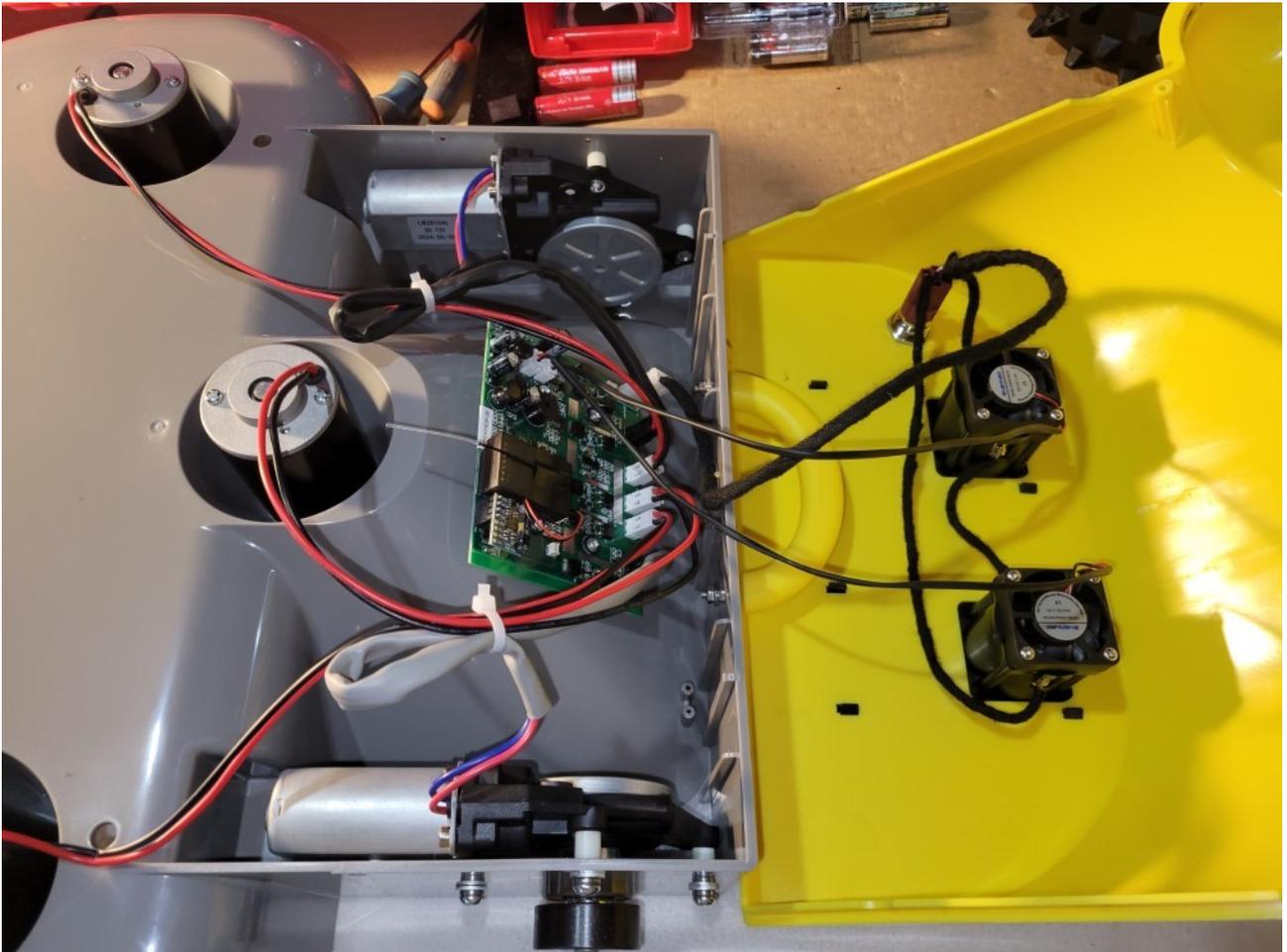


OPENING UP THE CASE

Now that all screws are removed, you need to carefully open the case.

- HOLD the top cover ON while flipping the machine upright and facing to the left.

- Carefully lift the top cover from the front and flip it over to the right as shown below.

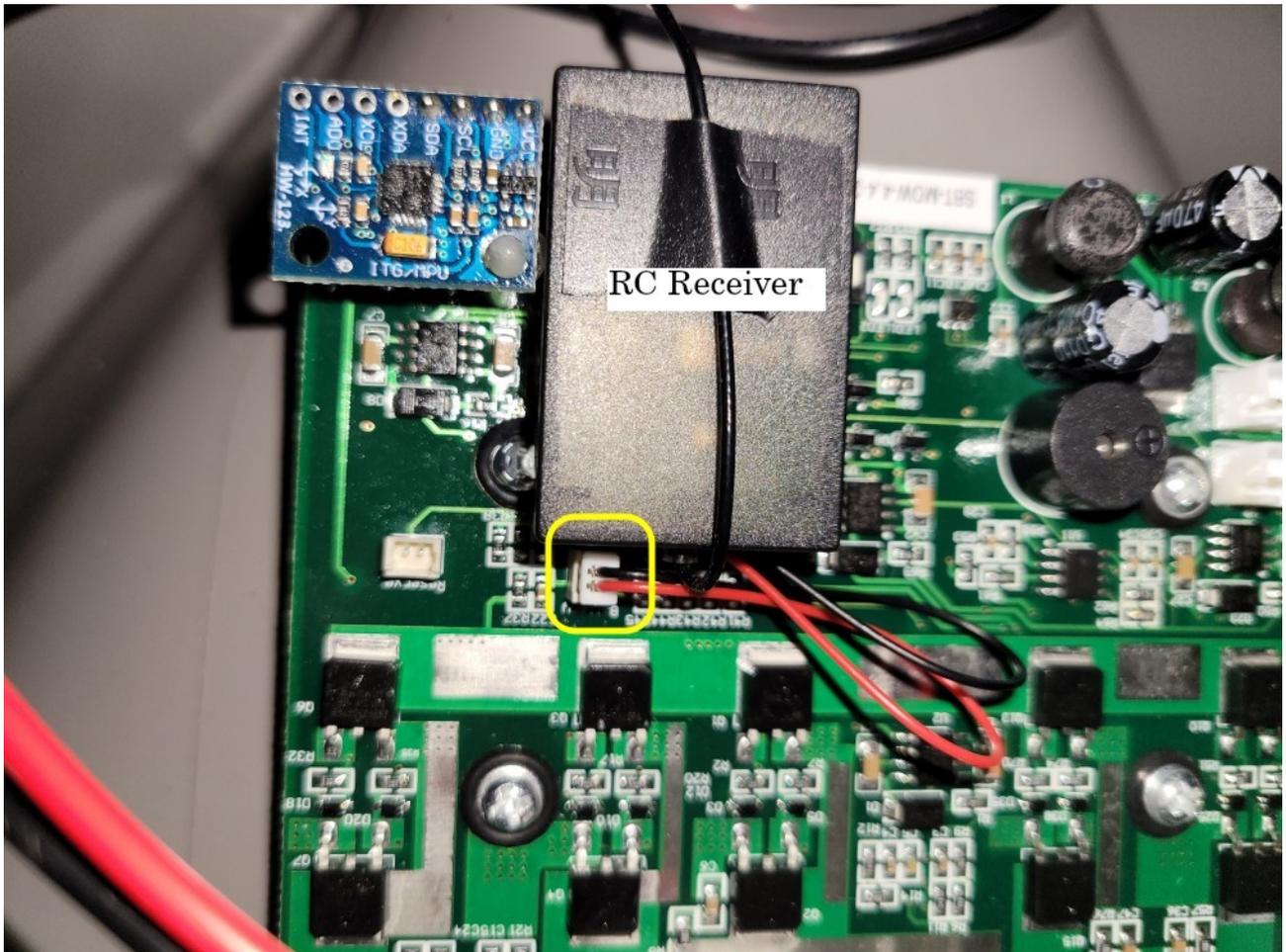


Now you can proceed with the necessary repairs.

RC RECEIVER REPLACEMENT

You may need to replace the RC receiver unit. This is the small, black module with a small antenna wire. Another small red/black power wire is plugged into the main board.

- Remove the small red/black power wire connector from the board next to the receiver.
- Pull up on the RC receiver while rocking side to side to remove the receiver unit.



REPLACING THE HANDHELD REMOTE CONTROL

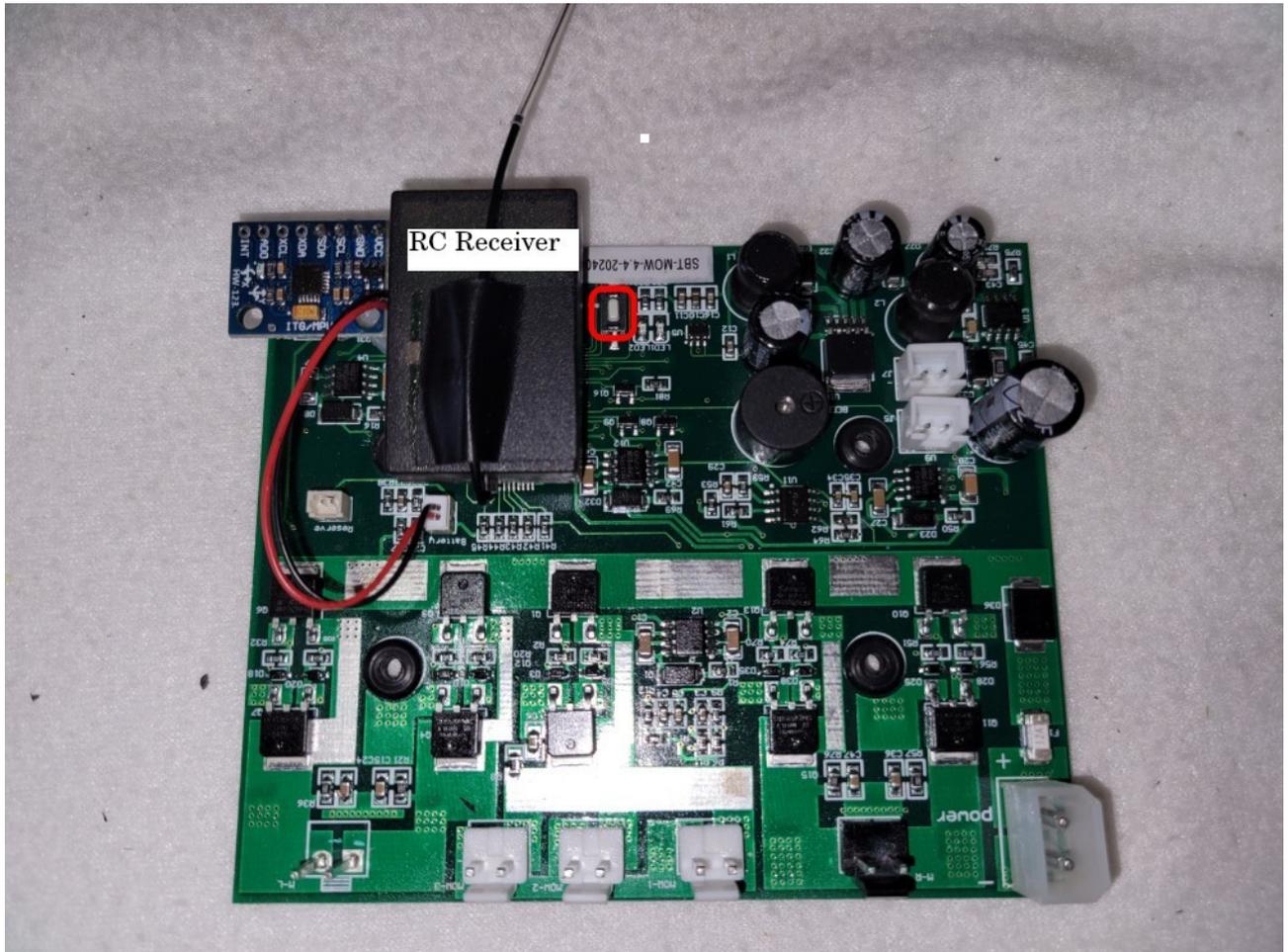
If you need to change to a new Handheld Remote Control, you need to do a process called 'PAIRING'. This allows the new Remote Control to talk to the ZIPmow. There is a small button on the main board that needs to be pressed during this process.

Now that you have the body opened up, here are the steps to get your new Remote Control working:

- First make sure that you have removed the blades and back wheels from the previous steps.
- With the top cover closed on top, place the 2, 18V batteries into the ZIPmow and turn it on.
- Carefully open up the cover and set it upside down behind the main body.
- Turn on the RC remote control.
- As in the photo below, the top number is the RC Remote Control voltage and it should be around 6V. The bottom number is the RC Receiver and it should be 00.0V.



- Now look at the main board pictured below and PRESS the SMALL WHITE BUTTON next to the RC Receiver (circled in red).



- Next, back on the Remote Control, press the MATCH button. The bottom number should now show a voltage of 32V to 38V.

- Test the mower wheels and blades operate from the Remote Control.

- Now shut everything off and remove the mower batteries.

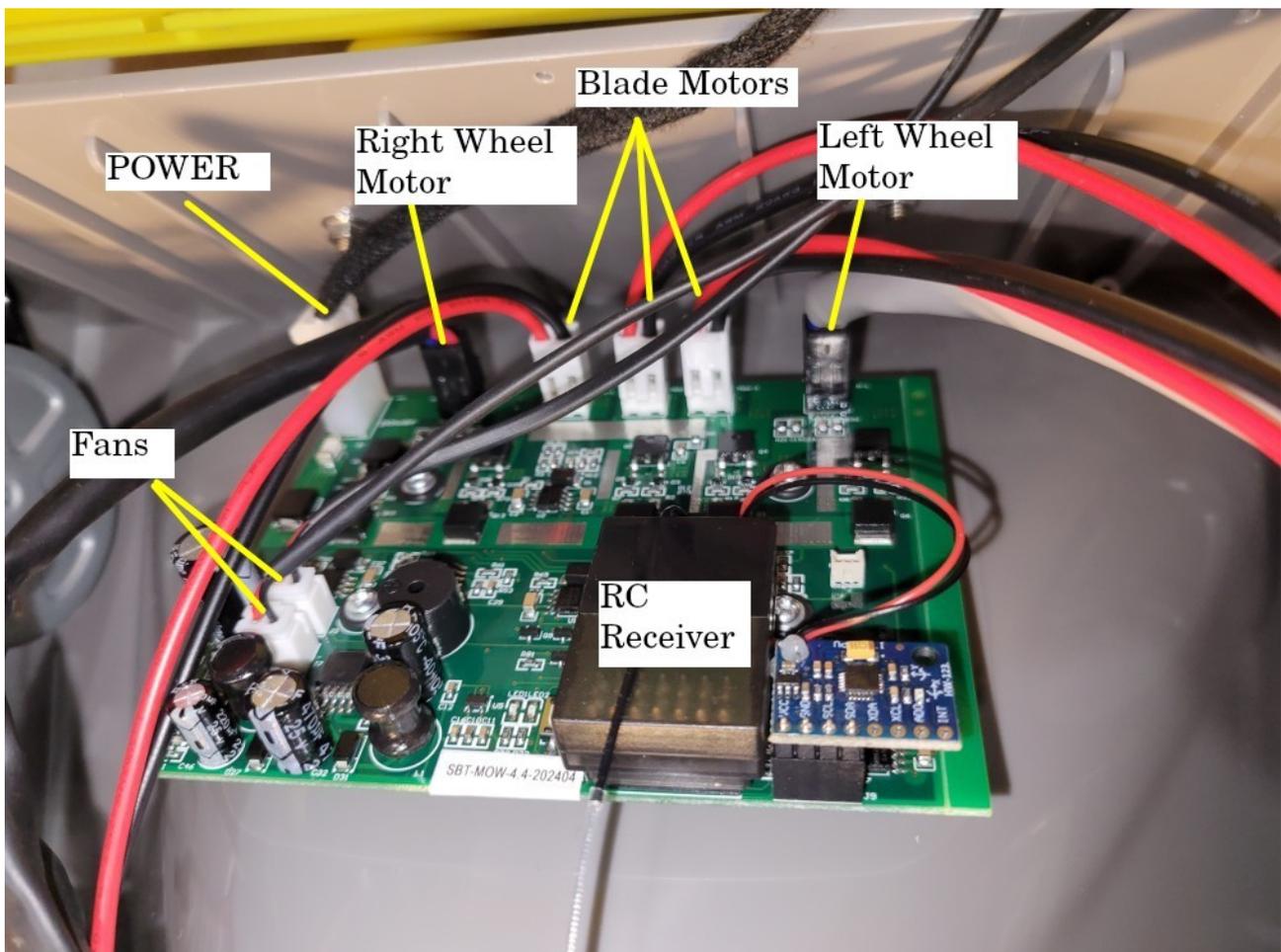
- Put the machine back together following the instructions in reverse order.



BOARD REPLACEMENT

There are 8 wire connectors from the board to the mower.

- Remove the 1 power connector at the back by firmly pulling and rocking side to side. This can be quite tight.
- Remove the 2 fan connectors by gently pulling them while rocking side to side.
- Remove the 5 motor connectors at the back by squeezing the back clip and pulling up. Take notice of their



- Remove the 4 small Phillips screws that connect the board to the mower main body and lift the board out.

Based on instructions from ZIPmow Support, you may need to transfer the current RC receiver to the new board or a new receiver may already be on the board.

- Attach the replacement board with the 4 screws and reconnect all wires as shown in the photo above.

FAN CORRECTION

There was an assembly error on some ZIPmow machines where the fans were installed backwards. This is a simple fix when you have the machine opened up. The labels should be facing OUT. The photo below shows a pair of fans facing the WRONG way.



- Remove the 4 Phillips screws in each fan and flip them over to face the label to the outside. They should now look like the photo below. Note the position of the connector wires.

