

**LC27-2 Load Cell Kit Installation Guide**

Congratulations on your purchase of the Ricmotech LC27-2 load cell brake kit for the Logitech® G25 and G27 pedals. This guide will take you step-by-step in performing the installation. Please read the entire instruction guide and familiarize yourself with all the steps required. Obtain all the tools needed to perform the installation before you begin.

**Tools Needed:**

- #1 Phillips Screwdriver
- #2 Phillips Screwdriver
- Small Flat Screwdriver
- 2.5mm Allen Wrench (Hex Key)
- Drill with 3/16" Drill Bit
- Cutting Pliers
- Needle Nose Pliers
- Cardboard Box 10" x 10" x 4" (25cm x 25cm x 10cm) or equivalent

Before you begin, unplug the pedals from the wheel. Do not perform this installation on statically charged surfaces such as carpets. The metal parts inside the Logitech® pedal assembly may have sharp edges, please take the proper precautions.

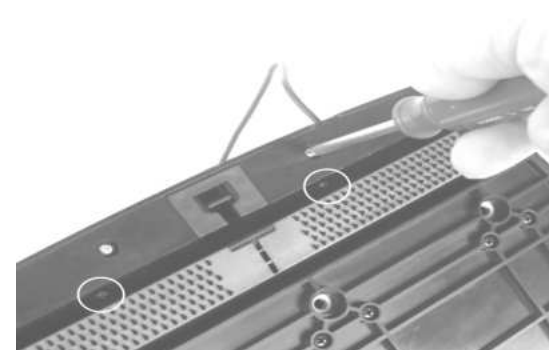
2. Flip the pedals upside down into the cardboard box so the pedals are hanging free and the plastic base does not fall in.



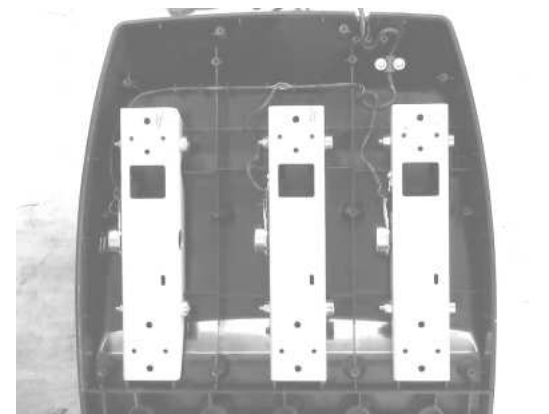
3. If you do not have an appropriate cardboard box, use some blocks of wood or rolled up towels to accomplish the same support.



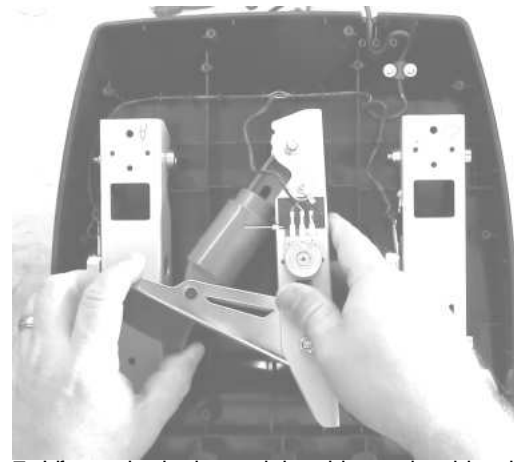
4. Remove the 12 black screws that secure each pedal to the bottom cover.



5. Remove the 14 silver screws that support that secure the cover in place. Don't forget the two screws behind the carpet gripper.



6. Lift off the bottom cover to expose the internals. Take pictures to assist in reassembly later.



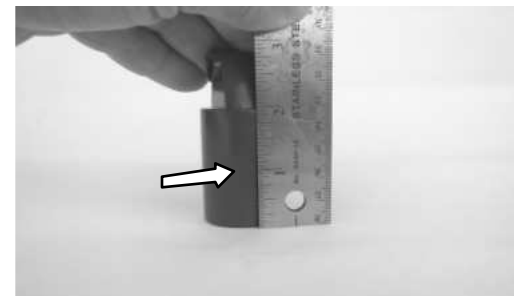
7. Lift out the brake pedal and lay on its side with the wiring at the top. Remove the screw securing the black ground wire then carefully pull off the 3 plugs, use needle nose pliers to help grip them.



8. Remove the brake pedal assembly from the housing. Remove the Allen head screws from each side of the pedal assembly to remove the spring housing from the pedal lever. Remove the brass insert from the housing and set aside.



9. Remove the upper spring housing and spring. The spring will not be re-used.



10. On the upper spring housing, locate the "seam" on the housing and mark it at 1 inch from the end as shown above.



11. Drill a 3/16 inch hole on the mark made in the previous step. Start the drill slowly to avoid it from "walking" down the side.



12. Take the wiring of the load cell and feed it through the hole as shown.



13. Using your finger, fold the wire on the load cell flat against it and slide it into the housing with the silver nub going in first as shown.



14. While gently pulling on the wire with one hand, continue to push the load cell into the housing with your other hand.



15. The load cell is in its proper position when the wire is aligned with the hole drilled earlier and the strain relief on the wire is visible through the hole.



16. This is what the load cell should look like when it is fully seated.



17. Next insert the spring into the lower spring housing around the rubber bumper. Your spring has a paint mark on one end, it should go in first and not be visible after it is inserted.



18. Bring both halves of the spring housing back together. Route the wiring as shown and using

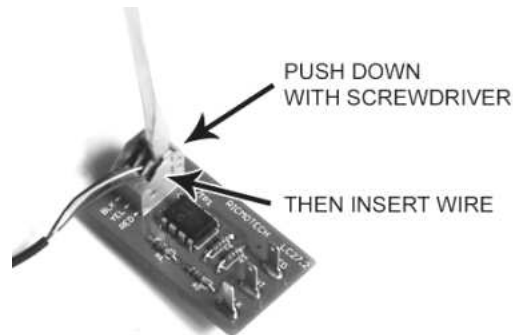
one of the supplied wire ties, secure the wire to the skinny end of the spring housing as shown. Cut off the excess wire tie.



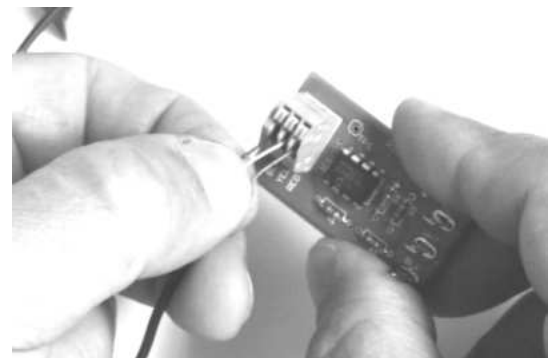
19. Insert the brass bushing remove earlier and secure with the original screws.



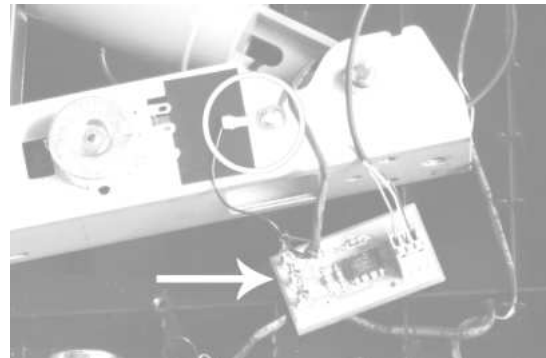
20. Insure the wire is kept away from the moving parts in the pedal assembly.



21. Insert the load cell wires into the corresponding positions in the terminal block by first pushing down on the locking tab with a small screwdriver or other small tool. While holding down the locking tab, insert the wire in a downward angle. Release the locking tab when the wire is fully inserted.



22. Gently tug on the wires to insure they are fully seated and will not come out.



23. Lay the pedal on the pedal housing and screw the ground terminal to the pedal base as shown. Then plug the three wires onto the corresponding terminals on the LC27-2 interface board.



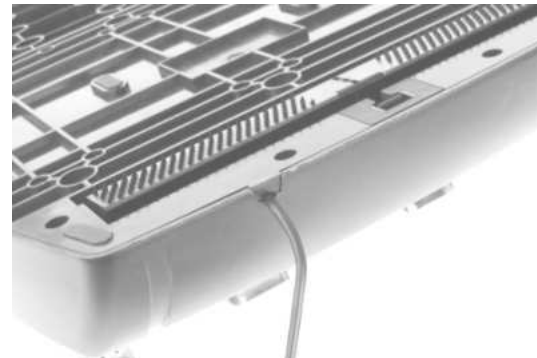
24. Using the remaining wire ties, strap the load cell wire to the original pedal wiring as indicated by the circles above. Peel off the backing on the mounting pad on the back of the interface board and secure to the plastic base as shown.



25. Make sure the cable exiting the housing is routed properly through the posts.



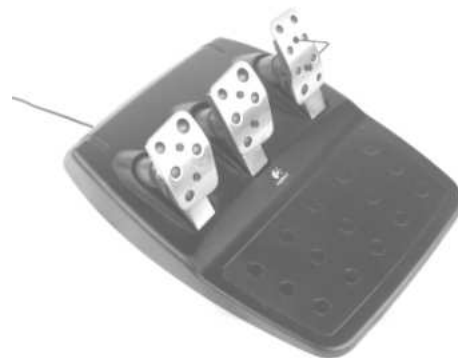
26. Place the bottom cover back on the housing and be sure it drops into place evenly all the way around.



27. Insure the cable exits the housing in the proper place and is not pinched. If the cover does not sit properly, remove it and check for obstructions. The cover must not be forced into place.



28. Secure the cover using the original 14 silver screws and 12 black screws removed at the beginning of the installation. Don't forget that 2 screws go under the carpet gripper.



31. Reinstall the pedal faces using the original screws. On the G27, there are different length screws. The shorter ones are for the accelerator and the longer ones are for the brake and clutch.

That's it. You are ready to plug the pedals back into the G25 or G27 wheel.

**-- IMPORTANT --**

You must re-calibrate the brake pedal in your simulation game for proper operation. Electronically, the pedal should operate exactly as the original and should operate will all games on the PC and PS3/4. To calibrate the brake, press the pedal with 70lbs (31kg) or more after turning on the PC or PS3/4

Warning: Do not stomp or beat on the brake pedal. The load cell is designed to handle several hundred pounds of force without losing accuracy, but stomps, kicks and hammer blows can easily exceed the safe limits of the load cell. The load cell is not warranted against failure from excessiv e force.

Ricmotech strongly recommends hard mounting the pedals to your sim-rig. A rigid mounting without any flex will help you get the most out of the LC27 and give you the best improvement in your racing performance. To hard mount the Logitech® pedals you will need 6 M6 metric bolts, their length depends the thickness of the mounting surface.

The LC27 load cell upgrade kit has been engineered to replicate the feel and reaction of a real race car brake system. To get the most from your new load cell you should keep the following tips in mind.

Your brake will now have a soft range followed by a hard range. The soft range replicates the travel of the brake pads before they make full contact with the brake rotors. This range will give you about 5% to 10% braking force (depending on your final brake calibration). Use this braking range to get the weight of the car to transfer to the front wheels without applying too much braking force.

Once the vehicle's weight is on the front wheels you can apply more braking force without putting the car into an under-steer condition. At this point, the brake will feel like you are pressing on a brick and will respond to how hard you press on it. This range replicates what happens after the brake pads are in full contact with the brake rotors and there is no further movement of the brake components.

At this point the brake pedal is near even height with the throttle pedal (G27). This facilitates proper heel-toe downshifting since the brake is kept at the same height regardless of how much braking force you need to apply.

By keeping these principles in mind your lap times should improve by giving you better control over the vehicle's brakes. Work on getting your braking to be more consistent. After that happens, you will not need to brake as early because you will not need that extra margin for error. Braking later means braking less and your lap times should then begin to improve. Happy Racing!

Notice: Ricmotech is not responsible for any damage you may cause to your Logitech® pedals during the installation of the LC27 load cell assembly. Installation of this load cell may void the original manufacturer's warranty. Every LC27 is tested for proper operation before being sent out.

**Need Help?**

If you run into any problems during the installation of the LC27-2 please contact us directly at tech support at (305) 417-9241 or via email at [mail@ricmotech.com](mailto:mail@ricmotech.com).

Due to constant improvements to our products, the product you receive may vary slightly from the product shown in the illustrations.

Copy right 2014, Ricmotech LLC

Logitech®, G25 and G27 are trademarks of the Logitech® companies and the terms are used for reference purposes only. Ricmotech and the LC27 load cell kit is not affiliated with Logitech®.