

## Ricmotech LC3 Load Cell Kit Installation Guide v2.1



### Items Needed:

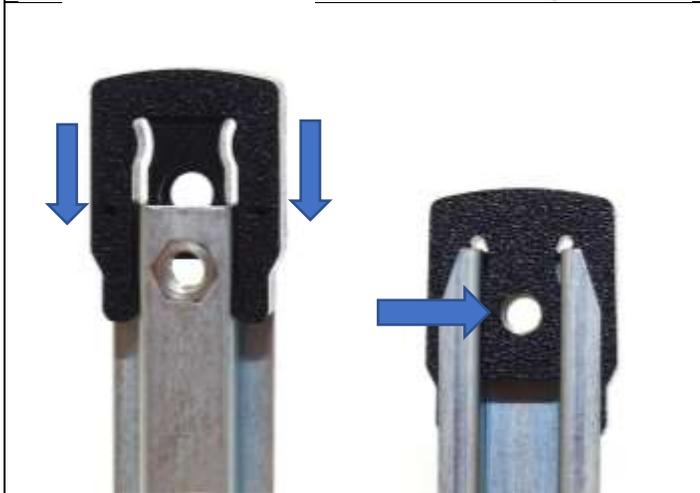
1. T3PA Pedals (Add-On pedals or included with wheel)
2. Parts from Original "Conical Brake Mod" shipped with pedals
  - a. Mounting Bracket
  - b. Mounting Bracket Screw
  - c. 2.5mm Hex Key
3. Contents of LC3 Kit
  - a. Load Cell with Connector
  - b. Machined Plastic Adapter Bracket
  - c. Bushing with housing
  - d. Load Intensifying Washer (for kits shipped after FEB15 2019)
  - e. 2 x #6 Mounting Screws
4. Phillips Screwdriver (#2)
5. Small Diagonal Cutters



### Installation:



Locate the original mounting bracket and screw for the "Conical Brake Mod".



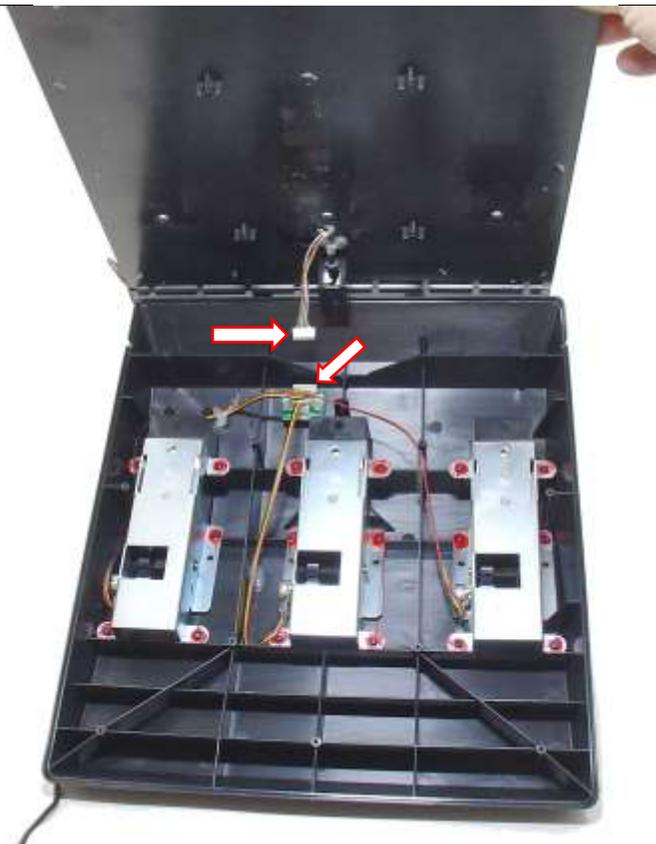
Slide the adapter bracket down over the end of the steel mounting bracket until the holes align.



Push the adapter forward to lock it into place.

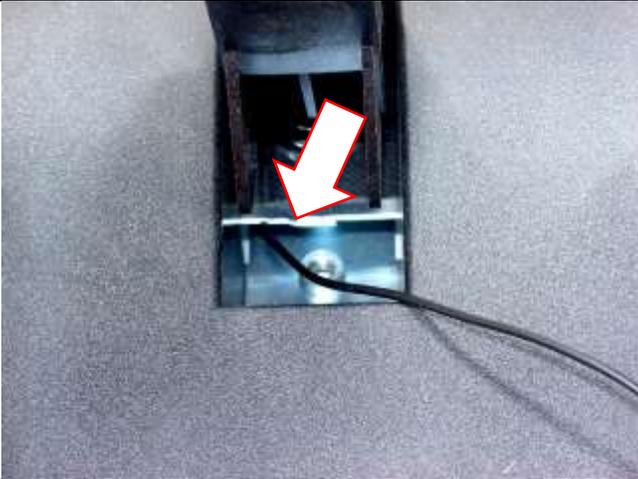


Remove the 14 screws from the bottom cover of the pedals. Do not overlook the screw behind the wire.

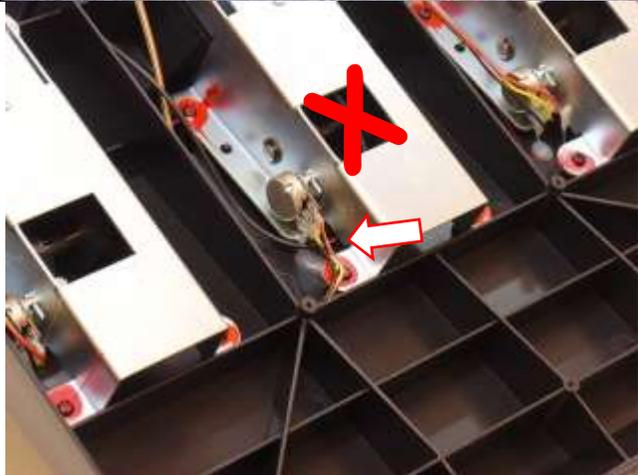


Carefully lift the cover from the near end with one hand and reach in with the other hand to disconnect the 6-pin plug from the circuit board. Do not lift the cover abruptly as this may cause damage to the connector.

Set the cover aside.



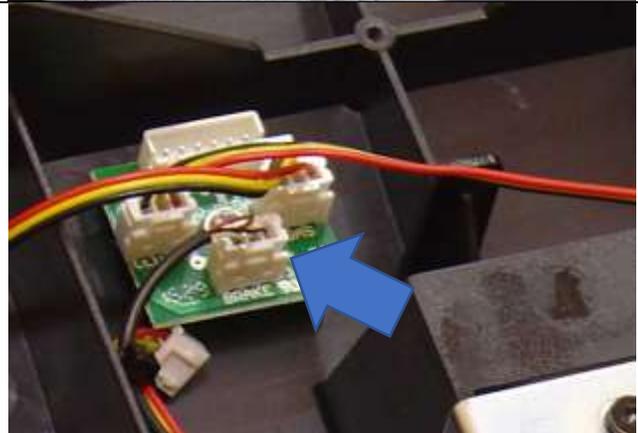
Uncoil the cable from the load cell module and straighten the cable. Insert the cable behind the pedal and under the metal “shelf” toward the front of the pedal assembly.



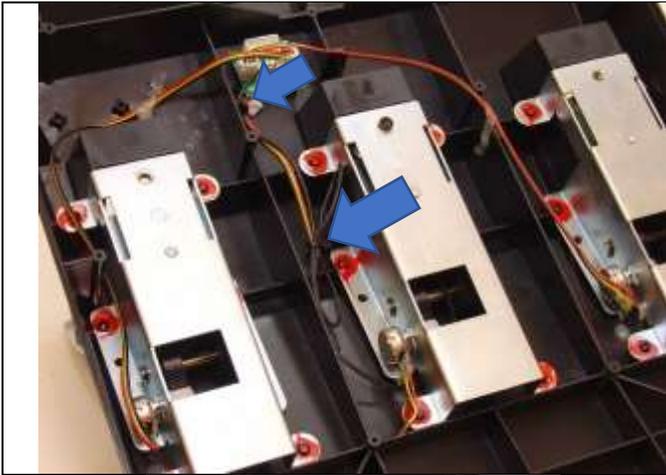
Route the wire through the pedal assembly and exit through the gap next to the original potentiometer (white arrow). DO NOT EXIT THE WIRE THROUGH THE LARGE SQUARE OPENING, THE WIRE WILL GET PINCHED WHEN THE COVER IS REPLACED.



Pull the excess wire through the pedal and install the bracket and adapter assembled earlier as shown. Mount the bracket using the original screw and position. Verify the wire is not pinched by wiggling it at one end and verifying it wiggles freely at the other end.



Unplug the original potentiometer connector labeled BRAKE and plug the load cell module into this receptacle.



Use zip ties to secure the excess wire to the existing wiring and secure the original potentiometer connector to the load cell cable. Cut off the excess.

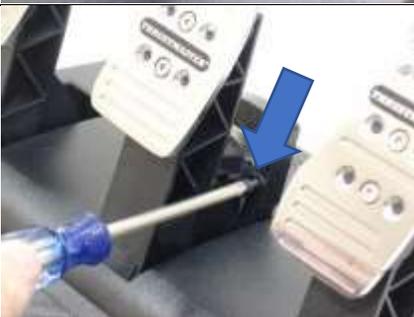


Place the cover back on the pedals as shown and reach in to plug the 6-pin connector back into the circuit board.

Close the pedals and reinstall the 14 screws removed earlier.



Mate the load cell and bushing housing with the bushing pressing against the metal tip of the load cell module. Slide the components between the back of the brake pedal and the adapter bracket as shown. Slide down until the holes on the load cell align with the holes on the adapter bracket.



Using the screws provided with the kit secure the load cell module to the adapter bracket as shown.



The pedals are now ready for use.

### Tips for Best Performance

The pedals must be calibrated every time the wheel restarts (when it does its left to right dance). The system will learn the maximum force used to press the pedal and that will be 100% braking in game. If at any point during the game the

pedal is pressed harder than that will become the new 100%. Therefore, we recommend pressing the pedal with maximum force after the wheel restarts so there is no variation in braking performance during a race.

The bushing is a consumable item and will break down over time. This will change the response of the pedal. You will gradually adapt to the change and therefore it may not be apparent. Periodically inspect the bushing and replace as needed.

### **Generating Higher Pedal Forces**

Some games, particularly on PS4, may require higher pedal forces to work properly. In most cases, the higher pedal forces lengthen the useful life of the bushing by spreading the load onto more of it rather than concentrating the force on just the center. The Load Intensifying Washer should be placed between the load cell sensor tip and the bushing. The washer will center itself on the load cell nib and will be captured in place by the bushing. (The Load Intensifying Washer was added to kits shipping after Feb 15, 2019. A similar #10 washer may be substituted.)



Place the load cell washer on the tip of the load cell nib and then place the bushing housing over it. Slide the assembly between the brake pedal and the mounting bracket and secure as shown in the instructions above.

### **Need Help?**

If you run into any problems during the installation of the LC3 please contact us directly at tech support at (305) 417-9241 or via email at [support@ricmotech.com](mailto:support@ricmotech.com). Due to constant improvements to our products, the product you receive may vary slightly from the product shown in the illustrations.

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