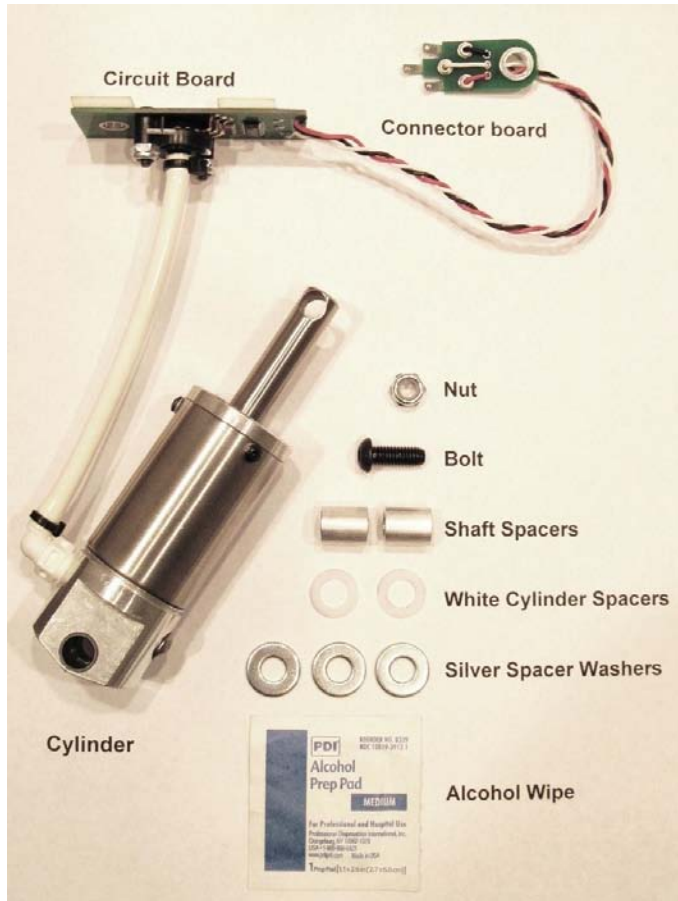


DIY (Do It Yourself) Installation Instructions

DIY Kit Parts:



Tools Required: #1 & #2 Phillips head screwdrivers
Two 2.5 mm allen wrenches
Needle-nose pliers
Small flat blade screwdriver
10 mm wrench
11 mm wrench

- 1) Disconnect the G25/27 pedal assembly's electrical connection from the steering wheel.

CAUTION: If installation is attempted with the electrical connected, **DAMAGE** could result to both the G25/G27 and your computer.

- 2) Remove the pedal faces with a 2.5 mm Allen wrench. (We have learned that it is a good idea to have a container for the small screws and parts so none get lost.)



- 3) Invert the G25/G27 pedal assembly.
- 4) **NOTE:** If you are working on a hard surface, care should be taken not to damage the work surface, a towel under the set is recommended as the pedals have sharp edges.
- 5) Remove the 4 black screws near the center of the pedal assembly. (These are #2 Phillips head screws).



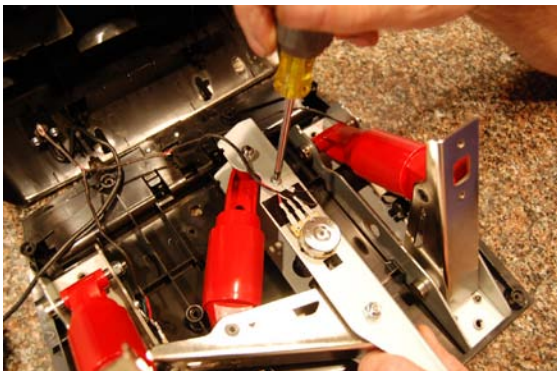
- 6) Next remove the 14 silver screws including the 2 screws under the carpet bar. (These are #1 Phillips head screws.)



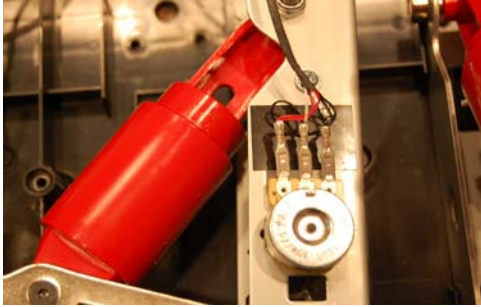
- 7) Once all the screws have been removed, invert the pedal assembly again so that it is now right-side-up.
- 8) Next, carefully lift the front cover off of the pedal assembly; lifting from the front edge. TAKE CARE – the wires are very thin and fragile. The G25/G27 brake module is now loose; lay it on its side with the wire connections facing up.



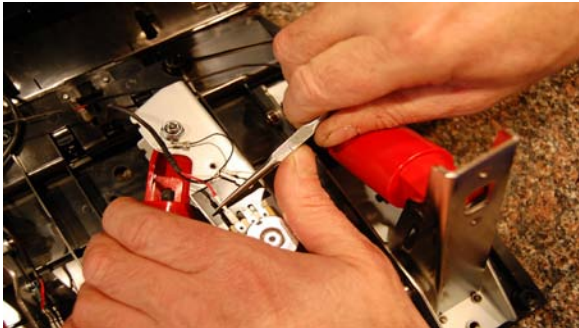
- 9) Next locate the wires that go to the brake module. Remove the grounding screw (#2 Philips head) that holds the black wire to the pedal assembly.



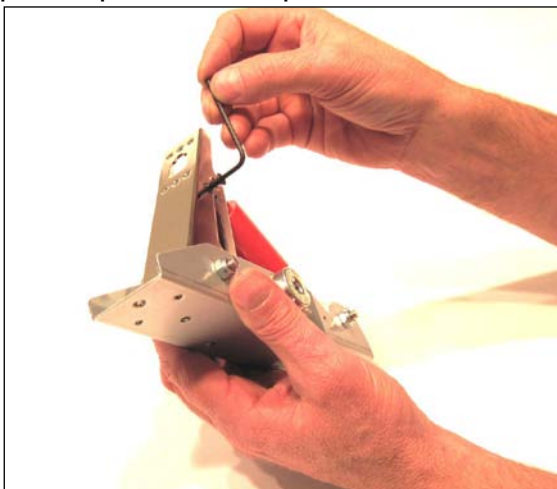
NOTE: If you can work the black heat-shrink-covering back away from the connections, it will make removing them and re-attaching them a little easier.



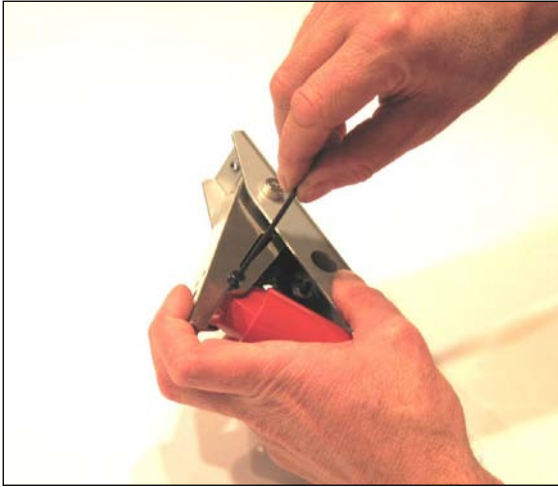
- 10) Take needle-nose-pliers and carefully remove the 3 spade connectors, one at a time from the brake module. Remove the brake module.



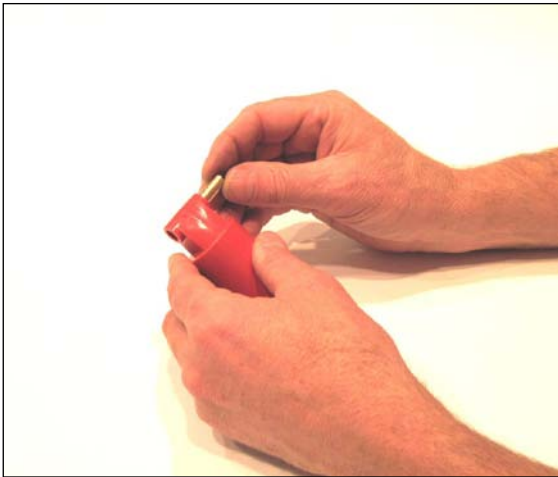
- 11) Using a 2.5 mm allen wrench, remove the two screws that hold the red plastic piston to the pedal face.



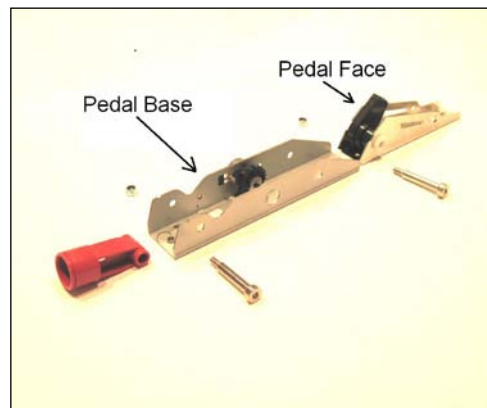
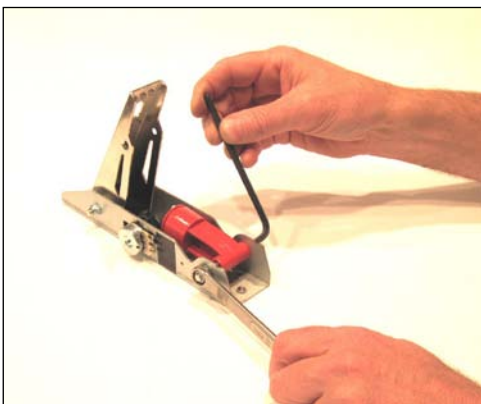
Once you loosen both screws, if they continue to rotate and not come out, try putting pressure on the pedal face while turning the screws.



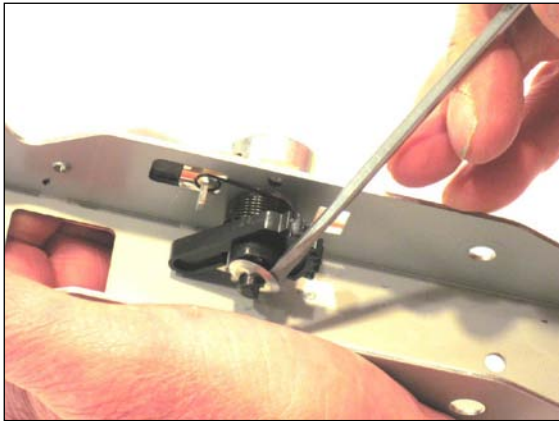
12) Remove and save the brass shaft from the red plastic piston.



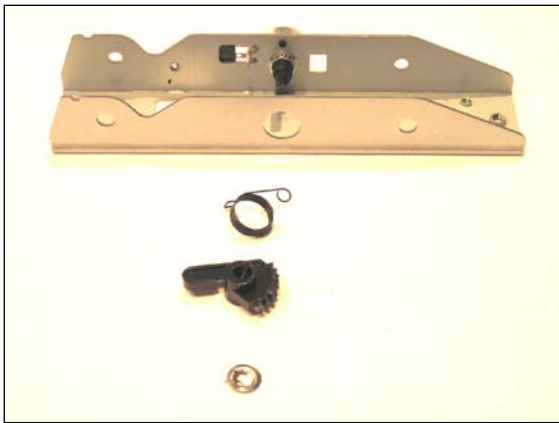
13) Remove both shoulder bolts that hold the base of the plastic piston and the pedal face to the pedal frame.



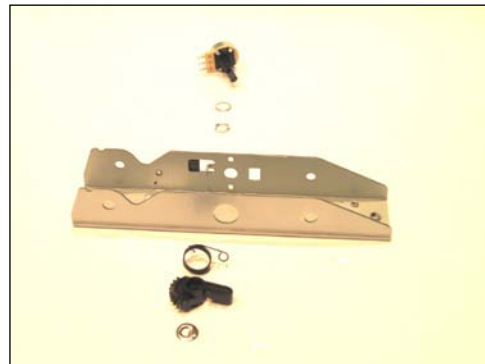
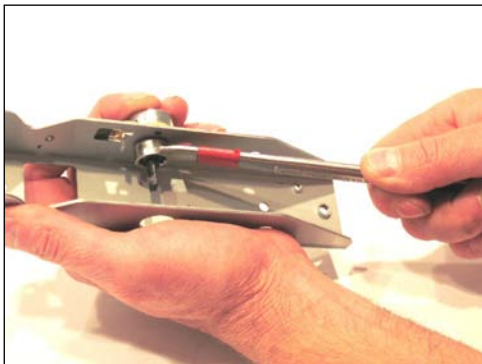
- 14) Use a small screwdriver to remove the retaining washer on the potentiometer.



- 15) Slide the black plastic gear and spring off the potentiometer.



- 16) Remove the 11 mm nut holding the potentiometer to the pedal base then remove the potentiometer and spring.



- 17) Loosen the Philips Head Screw that retains the black plastic gear on the pedal face and remove it.

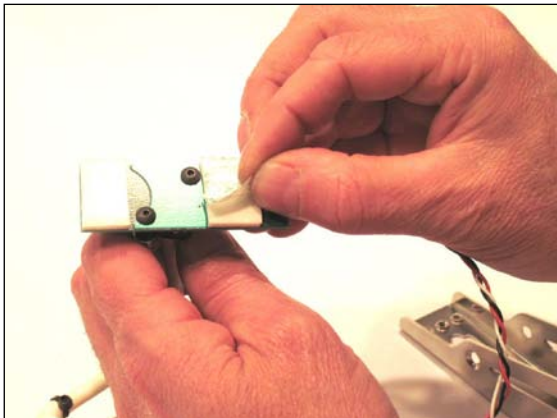


- 18) Clean the inside of the pedal face with the supplied alcohol wipe.

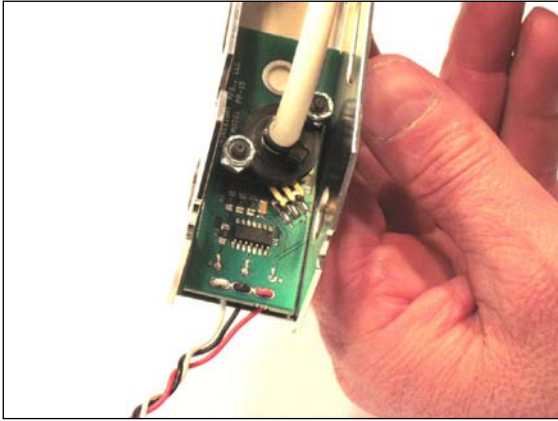


NOTE: In the next steps, care must be taken when positioning the circuit board. Once the tape makes contact it is very difficult to reposition it.

- 19) Remove the film from the two pieces of double stick tape on the back of the circuit board.



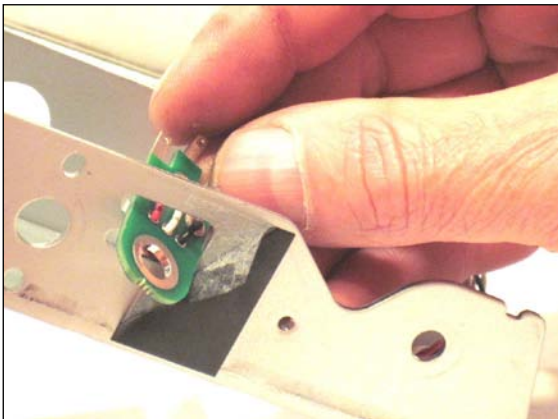
- 20) Align the end of the circuit board where the wires exit, flush with the bottom of the pedal face and press firmly in place.



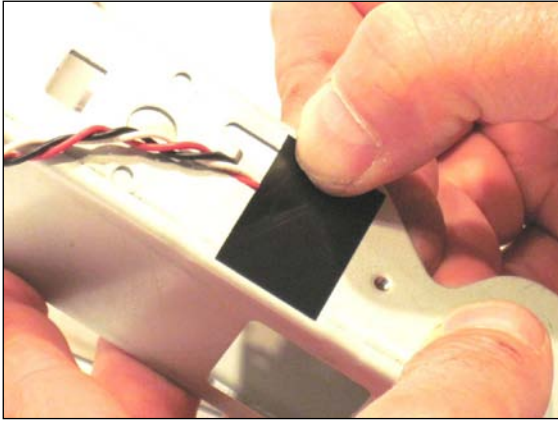
- 21) Peel back the black tape on the pedal base to expose the square hole behind it.



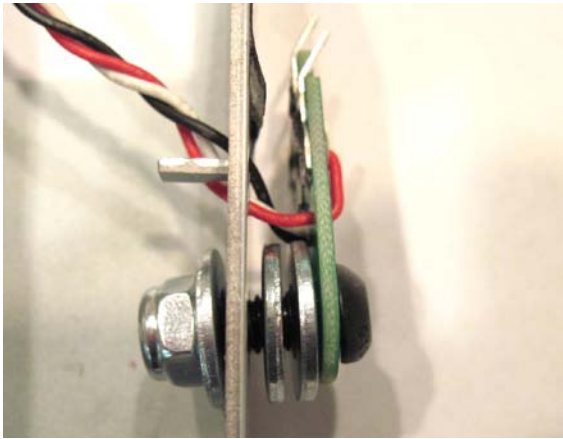
- 22) Slide the small connector board through the square hole from the inside to the outside. **DO NOT** force it! When oriented correctly, it will slide through the hole without any resistance.



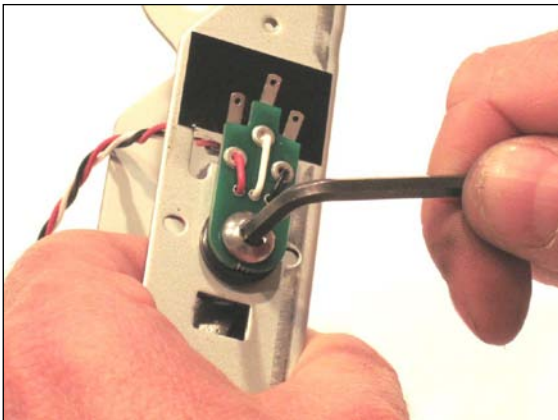
23) Smooth the black tape back onto the pedal base.



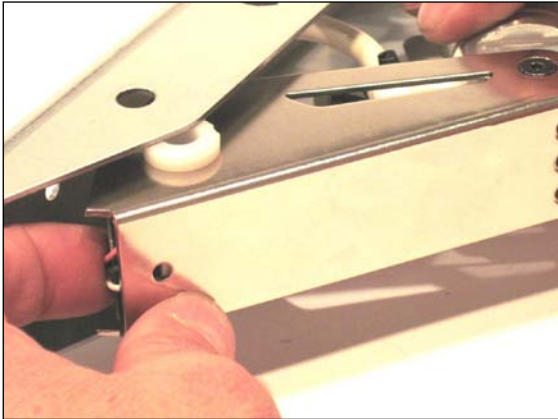
24) Bolt the connector board to the pedal base making sure that the silver spacer washers are positioned as follows. Two washers between the circuit board and the metal frame and one washer between the metal frame and the nut.



25) Tighten the bolt so the connectors face towards the back of the pedal base.



- 26) Insert the white plastic bushings back into the pedal face and slide it into the pedal base.

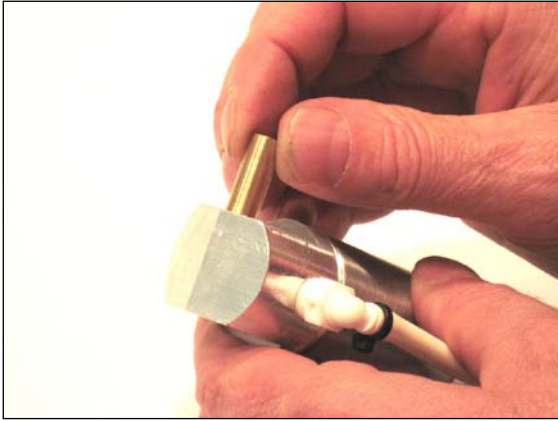


- 27) Install the shoulder bolt that holds the pedal face in the pedal base making sure that the wires run behind the shoulder bolt.



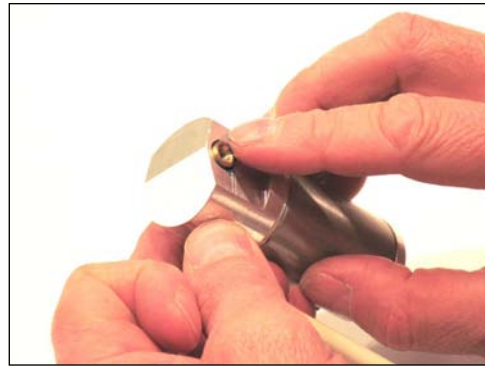
CAUTION: If the wires are not run behind the bolt they can become pinched under the pedal face and be damaged. This damage and any subsequent damage caused to the computer or the Perfect Pedal electronics **WILL NOT** be covered by the warranty.

- 28) Check to make sure that the brass shaft, removed from the red piston, slides freely through the hole in the Perfect Pedal cylinder.



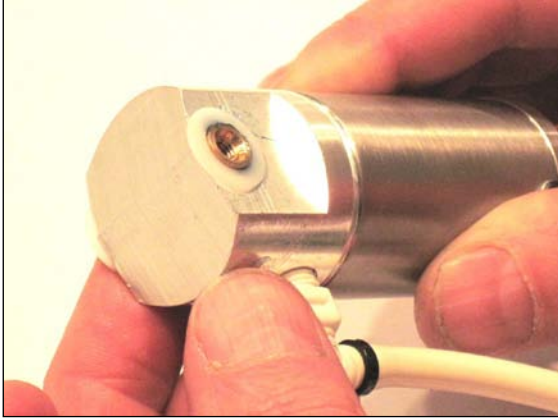
NOTE: DO NOT force it. It should drop through the hole freely with no resistance. In some rare cases (pedals with very high hours) the ends of the brass shaft may have burrs on it. If the brass shaft will not slide freely in the hole in the cylinder you must remove any burrs on the ends of the brass shaft using a file or fine sandpaper.

- 29) Once you're sure the brass shaft slides smoothly into the Perfect Pedal, coat the brass shaft with the supplied grease and slide it into the hole in the cylinder.



NOTE: If the hole that the brass shaft fits into on your Perfect Pedal cylinder has a black bushing in it, there is no need to grease the shaft. Your kit may or may not have a supplied grease packet.

- 30) Put one white plastic washer on each side of the brass shaft then slide the assembly carefully into the pedal face making sure the plastic washers stay in position correctly.



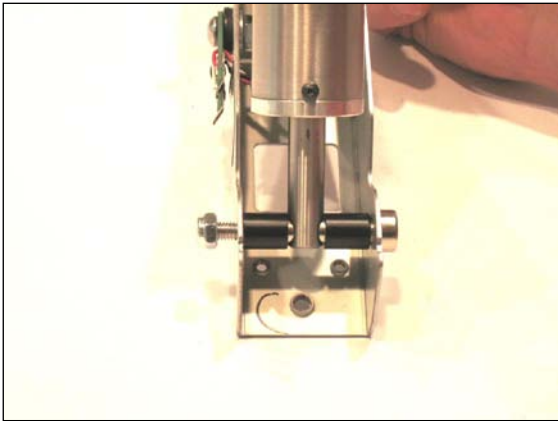
- 31) Align the cylinder so that you can see the end of the brass shafts' threaded holes through the hole in the pedal face and start the screws with your fingers.



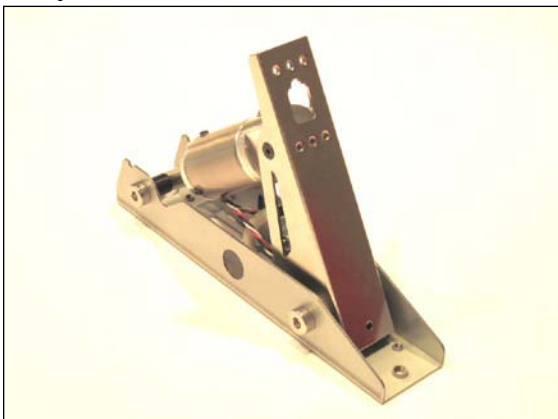
- 32) Using two 2.5 mm Allen wrenches tighten the screws making sure that BOTH SIDES are tight.



- 33) Install the shoulder bolt through the pedal base, holding the shaft of the Perfect Pedal in place. Make sure that you position the two spacers, one on each side of the shaft. The spacers in your kit may be either black or silver.



- 34) Your Perfect Pedal module is now assembled and ready to be installed in your G25/27.



CAUTION: If you are using a Bodnar Cable or device you will need to wire the Perfect Pedal unit a little differently. Please go to [Bodnar instructions](#) for additional information. Failure to follow the Bodner Instructions could result in damage to your Perfect Pedal and or you computer!

- 35) Take the Perfect Pedal module and lay it on its side in the bottom of the G25/G27 pedal assembly with the wire connectors facing-up. Carefully install the 3 spade connectors (white to white, red to red and black to black.)



- 36) Next, screw the grounding screw and black wire back in place. Make sure the wire end is pointing towards the top of the Perfect Pedal module.



- 37) Place the Perfect Pedal module in place on the base. Holding the black cover up at a 90 degree angle, clip the wiring harness back into position and make sure the wire exiting the pedal assembly is in the provided notch.



- 38) Replace the top cover and invert the pedal assembly holding it together until you insert and tighten the two silver screws in the upper corners of the pedal assembly.



39) Replace the rest of the 14 silver screws. NOTE: Do not over tighten; they are being screwed into plastic.

40) Next, replace the 4 black screws. Turn the pedal assembly right side up.

41) Reinstall your pedal faces.

Congratulations, your install is complete!

Now go to the [Configuration Instructions Page on Perfect Pedals website.](#)

We hope you enjoy racing with the Perfect Pedal and thank you again for purchasing our product.

Hindsight Manufacturing, LLC
www.perfectpedal.com