




## Pad Wear Sensor Instructions






The enclosed pad wear sensor from StopTech works with both 1-wire and 2-wire pad wear sensor systems. The sensor is designed to work with the pads in the StopTech ST-40 caliper. You typically only need a sensor on one of the 2 pads in the caliper.

The pictures below show the 2-wire system. If you have a 1-wire system, strip both wires of the pad wear sensor and, holding them together, place them both into the connector. Do NOT twist the wires together as this may reduce the amount of contact in the connector.

You will be using the supplied pad sensor, which plugs into the brake pad, connected to the opposite end of the factory sensor lead wire that plugs into a connector on the car, typically adjacent to the caliper somewhere on the strut.

Note- The end of the sensor that plugs into the pad is very brittle and will not tolerate being removed and re-installed unless great care is taken to pry the sensor gently from the pad. If you change pads often, visual inspection may be a better way to monitor pad wear. StopTech will not warranty broken sensors.

<p>1. Determine the length and routing of the factory sensor wire and make sure you have enough length on the new set-up to properly route the new sensor wire. You will need to determine the best combination of lengths between the new sensor and the leads left on the original plug. If in doubt, leave it long; you can easily shorten the length, as the wire connectors are re-usable.</p>	
<p>2. Cut the brake pad side off the original pad wear sensor, retaining the end that plugs into the connector on the suspension or chassis. These pictures show a typical Mercedes Benz plug and wire arrangement. Different vehicles will have different plug and wire types, however the installation procedures are the same.</p>	
<p>3. After determining the proper length of the lead wire assembly on the chassis end of the connector, strip approximately 6mm from both wires on the original plug.</p>	

<p>4. Remove cap from connector.</p>	
<p>5. Insert wire through cap and then into connector.</p>	
<p>6. With wire fully inserted into connector, screw cap back onto connector making sure it is tight. Make sure you turn the cap, not the connector to keep from twisting the wires too much.</p>	
<p>7. After determining the proper length of the new pad sensor lead wire, cut back the outer insulation sleeve <math>\frac{3}{4}</math> - 1" as shown and strip the insulation approximately 6mm from the end of each wire.</p>	
<p>8. Execute the above steps to attach the wire connectors with the end wires on your new pad wear sensor.</p> <p><i>This picture shows the completed assembly.</i></p>	

The pad end of the sensor inserts into the pad as shown in the following photos, with the thicker section toward the rotor. Though the picture shows the pad out of the caliper, the sensor is typically inserted into the pad with the pad installed in the caliper, although it can be inserted first. Make note of the small metal-formed clip on the sensor, which helps keep it in place so it does not get lost. Once the sensor is properly aligned with the receiving portion of the pad, gently press the sensor STRAIGHT INTO the pad.



This image below shows the sensor completely seated into the pad.



The sensor can go into either the inner or outer pad, as neither will typically wear faster than the other. The photo below shows the sensor inserted in the outer pad.



After assembly, insert the stock plug into the receiving connector and plug the wear sensor into the pad. Be sure the sensor wire is routed and retained in a safe and secure manner.

If the “Brake Pads Worn” or similar warning is still present on the dashboard display after installing the sensor, re-check all the connections. There should be continuity between the ends of the 2 wires in the stock plug on the end of the sensor wire. Check not only the plug, but each side of the twist-on connectors as well.

If you need any further assistance with the installation of this or any other StopTech product, please call our Customer Service Dept. at 310-325-4799 X 105 or e-mail: [support@stoptech.com](mailto:support@stoptech.com)