USER'S GUIDE

SG-5PS

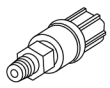
Pressure Sensor for **501** (common for oil pressure and fuel pressure)

● This product is a pressure sensor that has designed to be connected by using the PIVOT 501 to wire to the pressure sensor signal.
● When installing to PIVOT SG or GEKKO, please refer to the user's guide included with the main unit.

⚠ INSTALLATION WARNING

1. For safety purposes, when working on your car always disconnect the ⊖ battery terminal. (Reconnect to check for power.)
2. Make sure that all wire and snap connectors are firmly connected and insulated.
3. Be careful when laying wires not to cause any electrical shorts or wire breakage.

■ CONTENTS

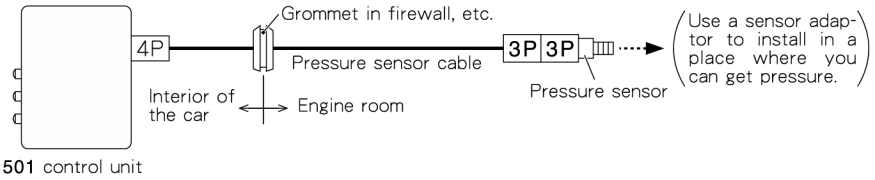


Pressure Sensor

Pressuer Sensor Cable

CONNECTING THE WIRES

※ All wiring, other than that for the pressure sensor has been left out of this explanation. Please refer to the user's guide for 501 as well as this guide.



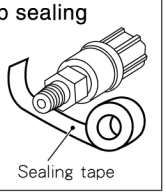
① Pull the end with the 4-pin coupler into the interior of the car through a grommet in firewall.
② Connect the pressure sensor to the sensor cable with the 3-pin coupler.
③ Connect the 4-pin coupler to the back of the 501 control unit.

SENSOR INSTALLATION

⚠ SENSOR INSTALLATION WARNING

1. Be sure to securely connect the sensor adaptor so as to prevent any leakage, and periodically check for leakage.
2. Carefully select the angle of the sensor adaptor before you connect the sensor or the wire so as not to cause any sudden or drastic twists or bends.
3. Be careful not to carry out this installation while engine is hot; it may result in burns or injury. Make sure engine has sufficiently cooled down before attempting installation.
4. Make sure to connect the sensor cable after installing the sensor. If you connect install the sensor with the wire connected, the wire may become twisted and tangled and may cause breakage or damage.

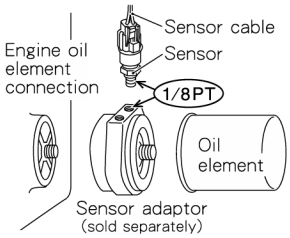
●Make sure to wrap sealing tape around the screw to prevent leakage.
●Because the screw is tapered, be careful not to screw them too tightly.



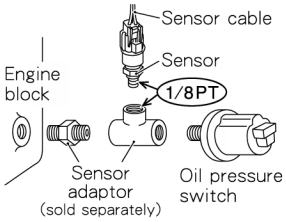
■ Installing the Oil Pressure Sensor

⚠ **Depending on the installation you may need a sensor adaptor. (Sensor connector 1/8 PT=sold separately. Commercial product may be used.)**

A Oil Element Installation



B Oil Pressure Switch Installation

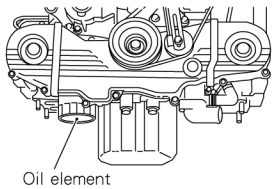


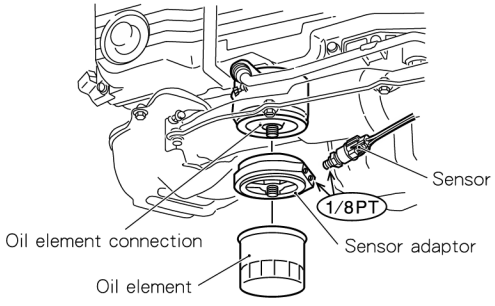
⚠ NOTE:

About [SUBARU Horizontally-opposed Engine.]

If you install in a car with a SUBARU horizontally-opposed engine, and use the screw hole in the oil pump to install the oil pressure sensor, the vibration from the oil pressure may be so great that it momentarily exceeds 3 times the full scale. This may cause damage to the sensor. If you plan to install in such a model car, please use the oil element installation adaptor as shown below. (It is also possible to use the oil pressure switch.)

※ As seen from the engine front.





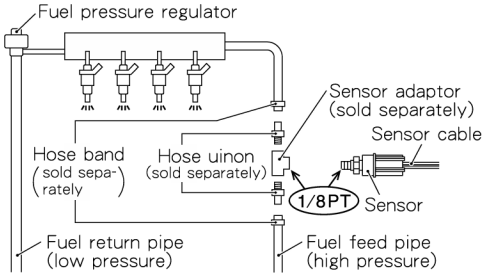
■ Installing the Fuel Pressure Sensor

⚠ WARNING The place where the senor is installed is an area prone to high gasoline pressure. If a leak should occur, it may cause fire and is very dangerous, so please do not use on public roads.

⚠ The sensor must be installed on the feed (high pressure) pipe side between the fuel tank and the fuel pressure regulator.
It is not possible to obtain accurate fuel pressure from the return (low pressure) side at the rear of the fuel pressure regulator.

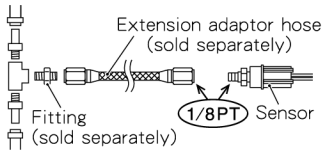
Depending on the installation you may need a sensor adaptor. (Sold separately. Commercial product may be used.)

●Sensor adaptor
Sensor connector; 1/8 PT
●Hose union × 2
Make sure it corresponds to the diameter of the fit pipe and the sensor adaptor.
●Hose band × 2
For the prevention of the hose union coming off.



◆ If you are using an extension adaptor hose

If you are using an adaptor hose that utilizes copper piping, make sure to try to reduce vibration by wrapping the piping in a spiral shape. We further suggest that you use an extension adaptor hose that utilizes stainless mesh hose so as to lessen the influence of vibration.



■ INSTALLATION PROCEDURE

⚠ While working on your car's fuel line, please make sure to follow all proper procedures outlined in your car's maintenance guidelines to ensure no unwanted discharge of fuel.

① Cut the fuel feed pipe.
② Properly connect the sensor adaptor and hose union to the pipe, which you have cut.
⚠ Make sure that no leakage of fuel occurs at each connection by properly carrying out leakage prevention procedures.
③ Properly connect the sensor adaptor to the pressure sensor.

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