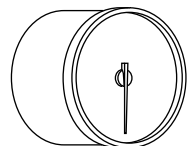


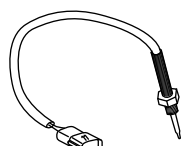
- The sensor must be installed on the feed (high pressure) pipe side between the fuel tank and the fuel pressure regulator.
 - ※ It is not possible to obtain accurate fuel pressure from the return (low pressure) side at the rear of the fuel pressure regulator.
- The thread size of hose unions and the three-way joint need to be 1/8PT. If the thread size of the three-way joint is 1/8NPT, use a conversion adapter available from hardware stores.
- **Tighten the sensor into the sensor attachment and then connect it to the sensor wire.**

TEMP. (DF067 Series)

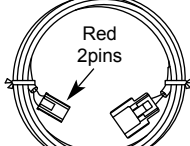
■Components



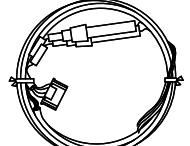
Gauge 1pc



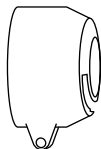
Temperature sensor (1/8PT) 1pc



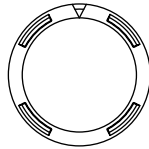
Sensor wire (8 1/5ft) 1pc



Power supply wire (3 1/3ft) 1pc

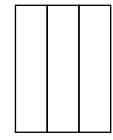


Meter cup 1pc

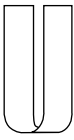


Regular position bezel 1pc

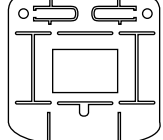
Mounting bracket set



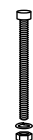
Double sided tape 1pc



Buffer 1pc



Mounting bracket 1pc



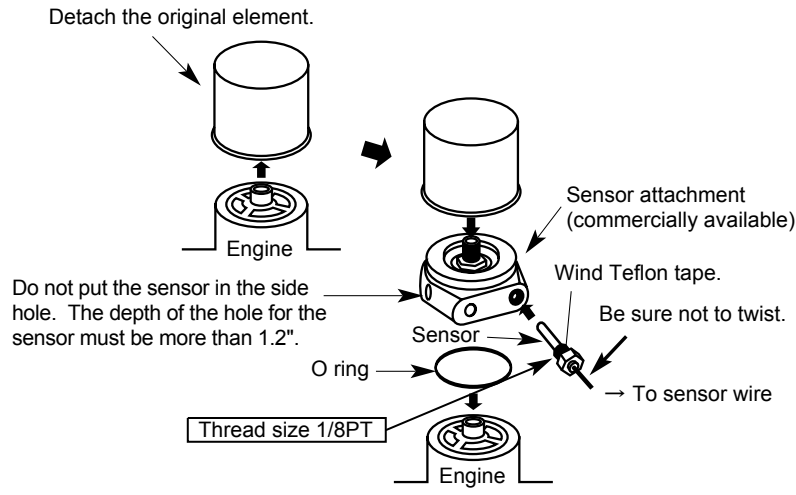
M4 bolt, nut, washer 1pc



Tapping screw 2pcs

Operation manual (this sheet) is included other than the parts listed above.

■How to attach temperature sensor for oil temperature (Use a commercial sensor attachment.)



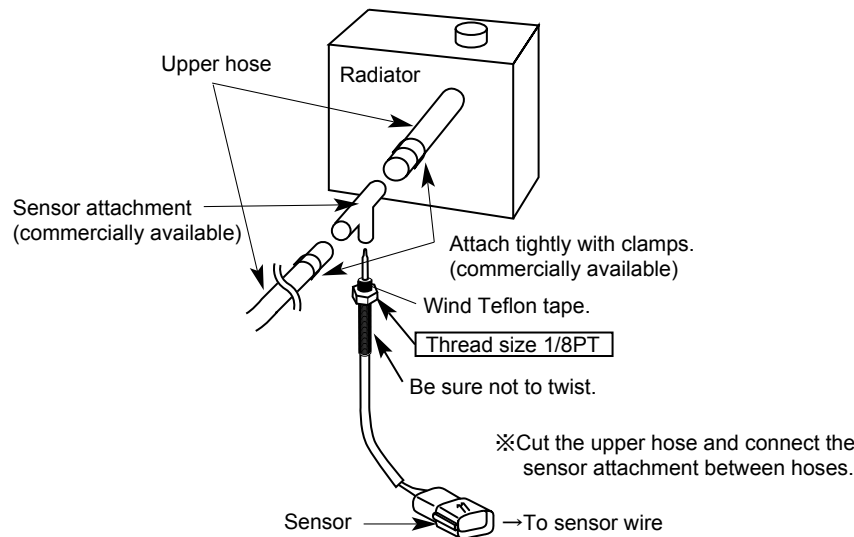
⚠Warning

- Be sure the sensor wire is not twisted when installing the sensor. The sensor wire will be cut.
- Oil spills by the installation work. Please replenish the engine with oil. The engine might overheat when oil is too little.
- To avoid oil leaks by installing of the sensors, use Teflon tape. Before driving, inspect oil blocks for leaks. Leaks could cause a fire or damage the engine.
- To avoid the damage of the sensor wire, please fix the waterproof connector on the vehicle body and do not bend the sensor wire near the sensor.

Confirmation

- The thread size of the temperature sensor is 1/8PT. Use a sensor attachment of 1/8PT. If the thread size of the sensor attachment for the temperature sensor is not 1/8PT, and you use a conversion adapter available from hardware store, note that the temperature is displayed lower than the actual value.
- The depth of the hole for the sensor must be more than 1.2".
- Tighten the sensor into the sensor attachment and then connect it to the sensor wire.

■How to attach temperature sensor for water temperature (Use a commercial sensor attachment.)



⚠Warning

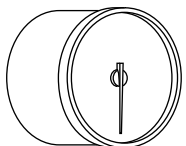
- Be sure the sensor wire is not twisted when installing the sensor. The sensor wire will be cut.
- Coolant spills by the installation work. Please replenish the engine with coolant and bleed the air from the system, or the engine might overheat.
- To avoid water leaks during installation of the sensors, use Teflon tape. Attach the sensor attachment and upper hose with clamps. Inspect hose connections for leaks before driving.
- To avoid the damage of the sensor wire, please fix the waterproof connector on the vehicle body and do not bend the sensor wire near the sensor.

Confirmation

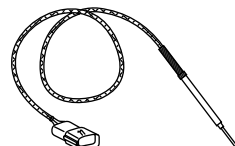
- The thread size of the temperature sensor is 1/8PT. Use a sensor attachment of 1/8PT. If the thread size of the sensor attachment for the temperature sensor is not 1/8PT, and you use a conversion adapter available from hardware store, note that the temperature is displayed lower than the actual value.
- Tighten the sensor into the sensor attachment and then connect it to the sensor wire.

E.G.T. (DF068 series)

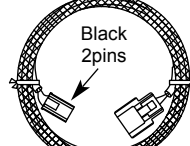
■Components



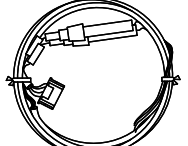
Gauge 1pc



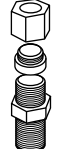
Exhaust temperature sensor 1pc



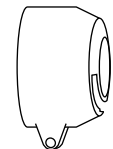
Sensor wire (8 1/5ft) 1pc



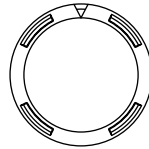
Power supply wire (3 1/3ft) 1pc



Fitting (1/8PT) 1pc

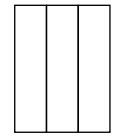


Meter cup 1pc



Regular position bezel 1pc

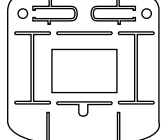
Mounting bracket set



Double sided tape 1pc



Buffer 1pc



Mounting bracket 1pc



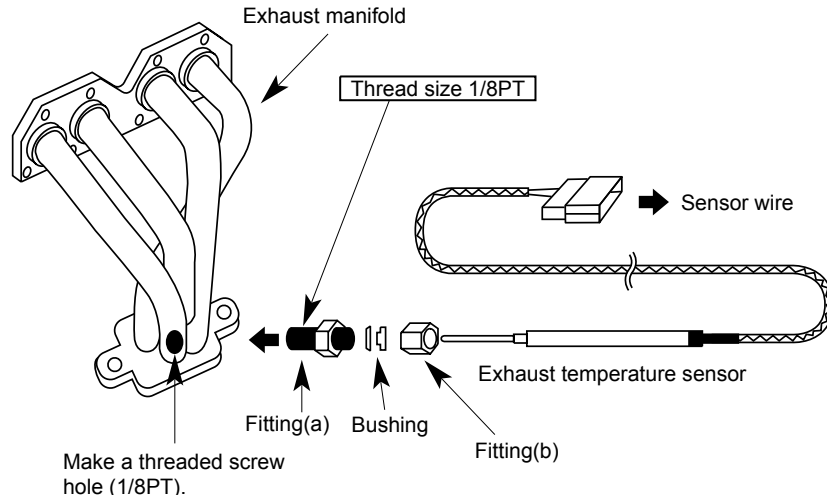
M4 bolt, nut, washer 1pc



Tapping screw 2pcs

Operation manual (this sheet) is included other than the parts listed above.

■How to attach exhaust temperature sensor for E.G.T.



- 1) Make a 1/8PT threaded screw hole in the exhaust manifold pipe.
- 2) Dismantle the fitting. Do not crush the bushing inside the fitting.
- 3) Tighten the fitting(a) to the hole of the exhaust manifold.
- 4) Pierce the sensor through the fitting(b) and the busing.
- 5) Insert the edge of the sensor into the fitting(a) and position it at the center of the exhaust pipe.
- 6) Tighten the fitting(b).

⚠Warning

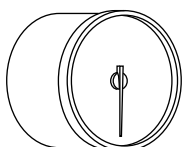
- To avoid personal injury, do not install the exhaust temperature sensor while the engine is hot.
- When making a hole, make sure no chip remains in the exhaust pipe or turbine. It may result in damage to the engine, exhaust pipe, or turbine.

Confirmation

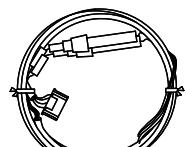
- The thread size of the fitting is 1/8PT. Make a threaded screw hole of 1/8PT.
- Tighten the sensor into the sensor attachment and then connect it to the sensor wire.

VOLT (DF070 series)

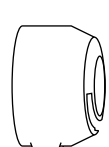
■Components



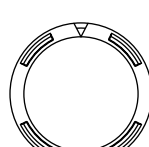
Gauge 1pc



Power supply wire (3 1/3ft) 1pc

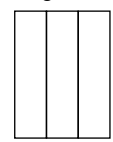


Meter cup 1pc



Regular position bezel 1pc

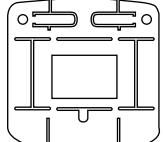
Mounting bracket set



Double sided tape 1pc



Buffer 1pc



Mounting bracket 1pc



M4 bolt, nut, washer 1pc



Tapping screw 2pcs

Operation manual (this sheet) is included other than the parts listed above.

■How to attach Volt gauge

Volt is displayed by connecting the power supply wire.

Confirmation

- Use the fuse of repair part when the fuse of the power supply wire is changed. Using a commercial fuse may affect the accuracy.

Terms and Conditions (for customer)

LIMITED PRODUCT WARRANTY AND LIMITED PRODUCT LIABILITY

- A. Limited Warranty
- a. Our sole obligation to you after the sale of a product is to replace, without charge, the product or any component thereof discovered to be defective within a period of one (1) year from the purchasing date(the "Warranty Period"). You accept sole responsibility for the proper assembly operation and regular maintenance of the product. This limited warranty is void if any product is damaged by accident, misuse, improper installation, or abuse, including tampering or damage in transit. Further, this limited warranty is void if you sell or otherwise transfer a product to a third party, regardless of whether the transfer takes place within the Warranty Period.
 - b. Our liability to you resulting from the sale of any product, including liability for any latent defects found within the Warranty Period, shall not exceed the total purchase price paid for the product by you.
 - c. YOU UNDERSTAND AND AGREE THAT WE MAKE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED AS TO ANY MATTER WHATSOEVER, INCLUDING THE CONDITION OF THE PRODUCT OR ANY COMPONENT PARTS THEREOF, ITS MERCHANTABILITY OR ITS FITNESS FOR ANY PARTICULAR PURPOSE AND YOU ACCEPT IT, "AS IS," "WHERE IS."
 - d. You also understand that we are not granting any express warranties, other than those stated herein. These include only those warranties enumerated in paragraph A. a. There are no other express warranties granted anywhere in these terms and conditions of sale, and you understand and agree to this fact as part of the bargained for exchange of this sale. Nowhere else, except as stated in this paragraph, in this contract is there intended, by either party, for there to be any express warranties granted to you.
 - e. EXCEPT AS OTHERWISE PROVIDED HEREIN, WE SHALL NOT BE LIABLE FOR DAMAGES, INCLUDING SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHETHER IN CONTRACT OR IN TORT ARISING OUT OF OR IN CONNECTION WITH THE PERFORMANCE OF ANY PRODUCT OR ANY COMPONENT PART THEREOF OR ITS USE BY YOU, AND WE SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH YOUR USE OF THE PRODUCT.
 - f. The warranty on this product is void if the product is modified, changed, adjusted or damaged. This product is to be used only in the ways for which it is designed and marketed for, any deviations from the intended uses will void the warranty and will excuse any possible liability of ours.
 - g. You accept sole responsibility for the proper assembly, operation and regular maintenance of the product. This limited warranty is void if the product is damaged, changed, altered, or modified by accident, misuse, improper installation, or abuse, including tampering or damage in transit or while in use. YOU HAVE MADE AN INDEPENDENT INVESTIGATION OF THE PURCHASED COMPONENTS AND HAVE RELIED SOLELY ON YOUR OWN INVESTIGATION, BARGAINING AND JUDGMENT IN REFERENCE THERETO. YOU ACKNOWLEDGE THAT YOU ARE NOT RELYING ON OUR SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS SUITABLE FOR ANY PARTICULAR PURPOSE IN PURCHASING OUR PRODUCTS, YOU HAVE NOT RELIED OR ACTED UPON ANY REPRESENTATIONS OR WARRANTIES ON OUR PART NOT SPECIFICALLY SET FORTH HEREIN.
 - h. This limited warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not enforce contractual limitations on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

- B. Modification Strictly Prohibited
- You understand and agree that any modification whatsoever, of the product, is strictly prohibited. You also agree not to modify the product in any manner regardless of whether such modification is material or immaterial. You also acknowledge that any modification of the product will void your limited warranty and bar you from any recovery or any remedy in a court of law or equity. Modification is strictly forbidden unless expressly authorized by our prior written approval. You agree not to make any modifications to the product and agree not to use any parts, components, or accessories in connection with the installation and use of the product that are not authorized and approved by us.

- C. Indemnity and Release
- a. You understand and agree that many factors beyond our control affect the operational safety of the product, including but not limited to the installation of the product according to the instructions provided with the product.
 - b. You also understand and agree that the installation of the product may involve the use of tools, equipment and construction methods which may present safety hazards which are beyond our control. You also understand and agree that the use of some of our products may create hazards and lower your ability to control your vehicle.
 - c. You agree, as part of the bargained for exchange, to protect, indemnify, save harmless and release us, our authorized agents, employees, officers, directors and shareholders from and against all liabilities, obligations, claims, damages, penalties, causes of action, costs and expenses, imposed upon or incurred by or asserted against us or any assignees of ours, by you or any third party by reason of the occurrence or existence (or alleged occurrence or existence) of any use, installation, assembly, possession or operation of the product, any loss, damage or destruction of the product as of and after delivery(a "casualty occurrence"), and any other act or event relating to or caused by the product, including but not limited to, consequential or of the terms and conditions hereof, or any and all liability for property loss or damage, or any and all damage resulting from death or personal injuries, including loss of services which any person may sustain on account of, arising out of, or in connection with any use, maintenance, possession or operation of the product. In the event that any action, suit or proceeding is brought against us or any of our authorized agents, employees, officers, directors or shareholders by reason of any such occurrence, you will, upon our request and at your expense, resist and defend such action, suit or proceeding or cause the same to be resisted and defended by counsel designated and approved by us.

Repair Parts (for customer)

Item	Model Number
Fuse 0.3A (2pcs)	PDF06508G
Mounting Bracket set	PDF06507G
Power Supply wire	PDF06504H
Boost Sensor	PDF06503S
Boost Sensor wire	PDF06505H
Pressure Sensor(1/8PT)	PDF00703S
Pressure Sensor wire	PDF06603H
Temp. Sensor(1/8PT)	PDF00903S
Temp. Sensor wire	PDF05602H
Exhaust Temp. Sensor	PDF01103S
Exhaust Temp. Sensor wire	PDF06803H
1/8PT Fitting for Exhaust Temp. Sensor	PDF01105G

Optional Parts (for customer)

Item	Model Number
Boost Sensor extension wire 1m(3 1/3ft.)	PDF06002H
Pressure Sensor extension wire 1m(3 1/3ft.)	PDF06013H
Pressure Sensor extension wire 2m(6 3/5ft.)	PDF00707H
Temp. Sensor extension wire 1m(3 1/3ft.)	PDF06014H
Temp. Sensor extension wire 2m(6 3/5ft.)	PDF00906H
Exhaust Temp. Sensor extension wire 2m(6 3/5ft.)	PDF01107H

Troubleshooting (for customer and installation personnel)

⚠Warning

- If operation of the product seems unusual, inspect the product to confirm that there is no malfunction. If an operational problem has occurred, it could result in an accident.

※In addition to a general inspection of the product, use the following table to confirm proper operation of the unit.

Condition	Possible Cause	Corrective Action
OA gauge lapses into the disconnection check mode. (Except VOLT gauge)	○Disconnection of sensor or sensor wire ○Connector is unhooked. ○Incorrect wiring	○Check the disconnection of connectors and wires.
OA gauge lapses into the short circuit check mode. (Except VOLT gauge)	○Sensor or sensor wire has a short circuit. ○Sensor or sensor wire is shorted to the vehicle body.	○Look for the point of short circuit with the following procedures. [Step 1] Unplug the sensor from sensor wire. <1> The gauge lapses into the disconnection check mode. →Short circuit of the sensor. <2> The short circuit check mode continues. →Go to [Step 2] [Step 2] Unplug the sensor wire from the gauge. <1> The gauge lapses into the disconnection check mode. → Sensor wire has a short circuit.
OA gauge doesn't operate.	○Fuse on the power supply wire is blown out.	○Check the wiring. ○Do not share single fuse with multiple gauges. Every gauge requires independent fuse for IGN and +B line.
OA gauge doesn't perform the opening mode.	○Wiring of IGN wire or GND wire of the power supply wire to the vehicle is wrong. ○Fuse on the IGN wire of the power supply wire is blown out.	○Check the wiring. ○Replace the fuse of the power supply wire.
OA gauge doesn't perform the closing mode.	○Wiring of constant battery+ wire of the power supply wire to the vehicle is wrong. ○Fuse on the constant battery+ wire of the power supply wire is blown out.	○Check the wiring. ○Replace the fuse of the power supply wire.
ODimmer is not working.	○Wiring of ILM wire of the power supply wire to the vehicle is wrong.	○Check the wiring.
OMalfunctioning operation	○Wrong wiring of the power supply wire	○Check the wiring.

- ※If the problem is not solved after the remedies mentioned above are tried:
⇒Ask the installation personnel or the shop you purchased the gauge for inspection.
⇒Purchase new parts for replacing wear-out parts .