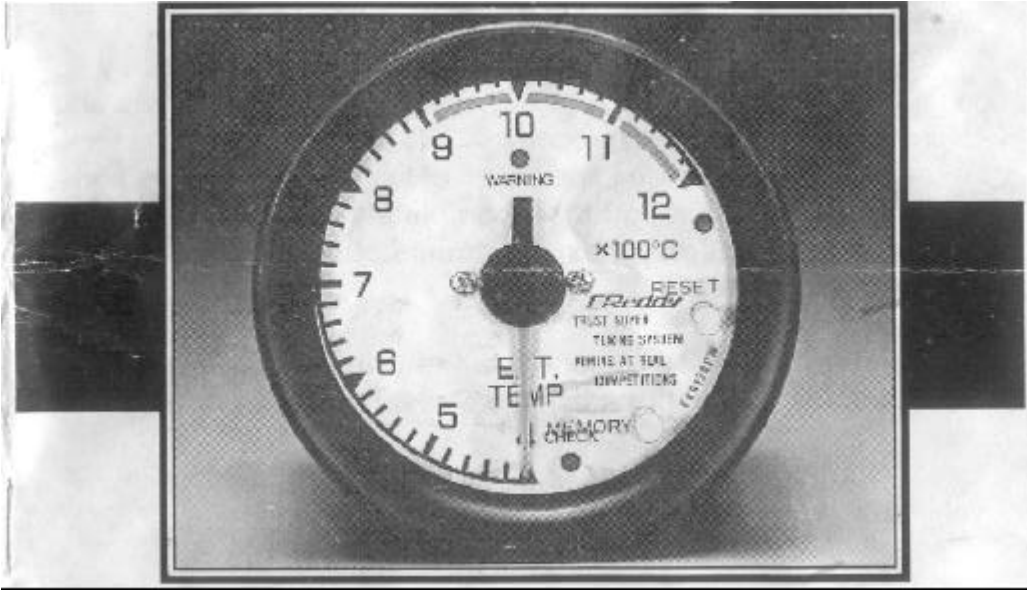

GREDDY

Exhaust Temp Meter



Operation Manual



9 Vanderbilt, Irvine, California 92718
Tel: (909) GReddy2 • (714) 588-8300 • Fax (714) 588-6318



PLEASE BE SURE TO READ

- * After installation is complete, please be sure that there are no objects on the floor in front of the driver's seat. If empty cans or tools are left on the floor in front of the driver's seat, **they may become caught underneath the brake pedal making brake operation impossible.**
- * Please be sure to check that the surroundings are clear before operating the vehicle. Carelessly operating the vehicle **may increase the risk of bodily harm and property damage.**
- * When lending or transferring the ownership rights of the vehicle equipped with the warning meter to another person, be sure to inform them of the modifications and **give both this instruction manual and warranty to that person.**

CAUTION

- * Installation of this product requires modification of the vehicle interior and modification of the electrical wiring. **Our company is not responsible for any damage to the vehicle caused during installation** so please use extra caution when proceeding with the installation procedures.
- * Please be sure not to short or connect any of the wires incorrectly. This may not only damage this product but may lead to serious electrical damage to the vehicle.
- * Never disassemble this product. It may not only cause damage to the case and unit, but will void the manufacturer warranty.

PLEASE BE SURE TO READ

- * When the negative terminal of the battery is removed, stored memory information in clocks, audio equipment, navigation systems, and electrical seats may be erased. Please be sure to read the instruction manuals of each corresponding unit before proceeding with any installation. After installation, please use the corresponding instruction manuals to reset each unit.
- * Because this unit is a fine, precision instrument, do not drop or subject the unit to any strong shocks.
- * After purchasing this unit, please refer to page 9 to ensure that all the necessary parts have been included.
- * If the product serial number on the warranty and brand new gauge do not match, please bring the unit back to the store of purchase or notify our company.
- * When cleaning the product, please use a clean, dry cloth. For extremely soiled units, please use a slightly damp cloth to wipe off the unit. Never use benzine or thinners because they may harm the case and paint on the unit.
- * Please contact our company if there are any questions regarding our product.

(Our address and telephone number are listed on the bottom of this page. It is also on the last page.)

Please be sure to read the warning messages that appear by each item.

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Please proceed with installation only after reading the following warnings.

WARNING

* The installation of this product should only be performed by a skilled technician or mechanic who has undergone the proper training procedures. Installation of this product by anyone other than a skilled technician **may increase the risk of accidents, injury, and shorts due to improper wiring and is extremely dangerous.**

* Please be sure to carefully examine the installation procedures to prevent any omissions. Careless installation procedures **may increase the risk of vehicle damage or driving impairment and is extremely dangerous.**

CAUTION

* Please remove the key from the ignition key cylinder and remove the negative terminal of the battery before performing any electrical wiring work. Working on electrical wires with current in them may lead to electrical shorts and is dangerous.

* Be sure to read the wiring instructions before proceeding with the installation. Faulty connections may not only damage the unit but may also cause severe damage to the electrical system of the vehicle.

* Please be sure to cover all soldered connections with electrical tape.

Thank you very much for making a winning choice in selecting GReddy Performance Products. We believe that this instruction manual will not only be useful for the first-time user, but also aid experienced users to further their knowledge and experience. Please be sure to read and completely understand the entire manual before attempting any use of this product. We also recommend that this manual be stored in the vehicle for easy reference. We hope you can obtain and enjoy the full benefit of this product.

- * Do not drop or expose this product to excessive shock.
- * Please be careful not to make any incorrect connections.
- * Each coupler has a specific direction for connection. **Please do not force any of them together.**
- * Please do not disassemble this product. This may not only cause the unit to malfunction but will also void the warranty.

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MINIMUM REQUIREMENT FOR TOOLS

- Pliers
- Wire Cutters
- Phillips & Slotted Screw Driver
- 10mm Wrench
- Tester (Capable of Measuring Up To 15V)

Tools Necessary for Precise Installation

- Soldering Iron
- Drill
- Cloth, Mild Detergent, Water
- Electrical Tape

2. PARTS LIST

[1] Meter 1pc.

[2] Warning Circuit Box 1 pc.

[3] Meter Bracket 1pc.

[4] Mounting nuts for Bracket 2 pcs.

[5] Sensor (500mm) 1 pc

[6] Sensor Harness (2000 mm) 1 pc

[7] Fitting (1/8 PT) 1 Set.

[8] Wire Harness B (Meter ~ Circuit Box) 1pc

[9] Wire Harness A (Electrical wiring) 1 pc

[10] Electrotap 3 pcs

[11] Mounting Screws for the Circuit Box 4 pcs

[12] Double-sided tape 1pc

[13] Velcro (Magic Tape) 1pc

[14] Zip Ties 4 pcs

[15] Harness Sticker 1pc

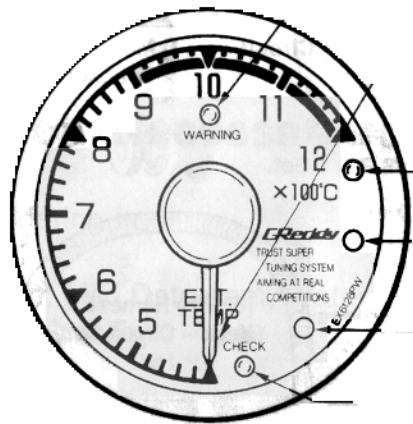
[16] Adjusting driver 1pc

[17] Instruction Manual 1 pc

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.

If the parts or number of parts included in the package differs from the figures above, please contact the store of purchase or our company.

(Part Names and Operational Procedures)



- ⑤ **WARNING L.E.D.**
- NEEDLE**
- ③ **MEMORY L.E.D.**
- ② **RESET**
- ① **MEMORY**
- ④ **CHECK L.E.D.**

[Fig 1]

① **MEMORY SWITCH**

When this switch is in the OFF position [MEMORY L.E.D. (3) is not lit], the needle will read exhaust temperature in real time while storing the peak temperature into the memory of the meter. Press the MEMORY SWITCH (1) when checking the peak temperature from this mode.

When this switch is in the ON position [MEMORY L.E.D. (3) is lit], the needle will continue to read the peak temperature. The memory of the meter will constantly read and record the peak temperature. (The contents of the memory will be erased when the ignition key of the vehicle is turned off.) [Fig 1]

② **RESET SWITCH**

By pressing this switch, the memory of the meter can be cleared. However, this switch may only be used when the MEMORY switch is in the ON position. [MEMORY L.E.D. (3) is lit]

③ **MEMORY L.E.D.**

1) Lights when the MEMORY switch is ON.

④ **CHECK (Sensor Abnormality Alarm) L.E.D.**

The meter will light the warning L.E.D. under the following conditions:

- * When the couplers of the sensor has been forced into place the wrong way.
- * When the sensor is disconnected.
- * When electricity is turned on even though the sensor couplers are not connected.

⑤ **WARNING L.E.D. (RED)**

This L.E.D. lights and alerts the driver when the temperature reaches a specified level set on the circuit box. The L.E.D. will turn off when the needle falls below the specified level. When the MEMORY Switch (1) is ON, the needle will point to the peak temperature but the L.E.D. will function according to real-time temperature.

Caution-

This meter utilizes a high-intensity directional L.E.D. The L.E.D. may be difficult to see unless the meter is mounted in an area where it can be properly viewed.

NOTES

⑥ WARNING SET SWITCH

This switch allows the user to enter a mode to adjust the point at which the WARNING L.E.D. (5) on the meter should light.

Caution-

When this warning meter switch ⑥ is ON, the meter will not function normally. Please be sure to turn the switch OFF after setting.

[Fig 2]

Wire Harness B (Meter~ Circuit Box) Connector

Wire Harness B
(Meter~ Circuit Box) Connector

[Fig 2]

- ⑥ WARNING SET ON / OFF Switch
- ⑦ WARNING SET L.E.D.
- ⑧ ADJUST Volume



Sensor Harness Connector

Wire Harness A (Electrical Harness) Connector

⑦ WARNING SET L.E.D.

Lights when the WARNING SET (6) switch is ON.

⑧ ADJUST VOLUME

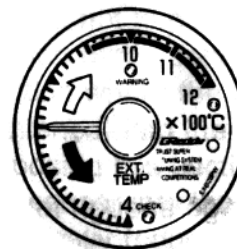
This volume sets the WARNING L.E.D. point when the WARNING SET (6) Switch is ON.

[Adjusting Procedures]

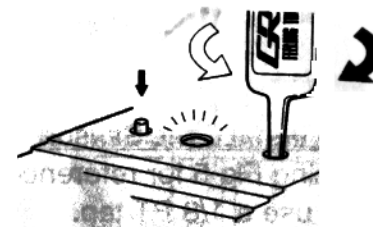
Turn the WARNING SET (6) Switch ON and make sure that the WARNING SET L.E.D. (7) lights. At this point, use the included adjusting driver or any other precision screw driver to turn the ADJUST VOLUME (8) and move the needle of the meter. By turning the volume to the right, the needle will read a lower temperature and by turning the volume to the left, the needle will read a higher temperature. See [Fig 3]

Once the needle has been set at the desired warning level, turn the WARNING SET (6) Switch OFF and the procedure is complete.

The WARNING L.E.D. (5) will light when the specified temperature is reached.



[Fig 3]



Caution-

* It is extremely dangerous to adjust the meter while the vehicle is in motion. Please adjust only when the vehicle is at a complete stop.

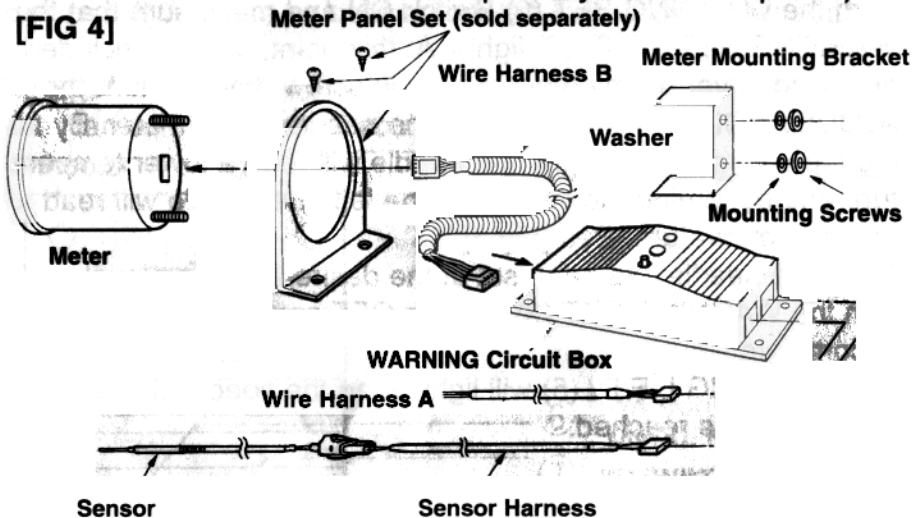
* A highly sensitive volume control is used for the adjustment of the warning level. Please do not use excessive force or turn the volume beyond the specified limits.

* Be sure that the WARNING SET L.E.D. (7) is lit before adjusting. Turning the volume when the L.E.D. is not lit may affect the existing the warning level.

HOW TO INSTALL THE METER AND CIRCUIT BOX

* Insert Wire Harness B between the meter and circuit box. The couplers on the cable may be installed into either the meter or circuit box without problems because they have been designed with similar receptacles. See [Fig 4]
(Please mount the meter with the separately sold meter panel.)

[FIG 4]



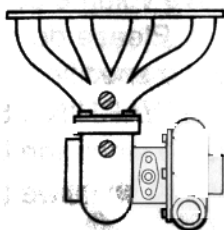
A) HOW TO INSTALL THE SENSOR

*Using Fig 5 for reference, drill a hole large enough for the fitting and use a 1/8 PT tap.

If the exhaust pipe is still connected to the engine during installation, be sure not to allow any of the metal scraps to enter the manifold.

[Fig 5]

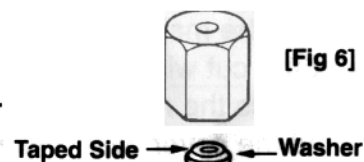
Exhaust Manifold



Choose a convenient position and drill a hole. Tap the hole with a 1/8 PT tap and insert the adapter.

B) HOW TO INSTALL THE SENSOR

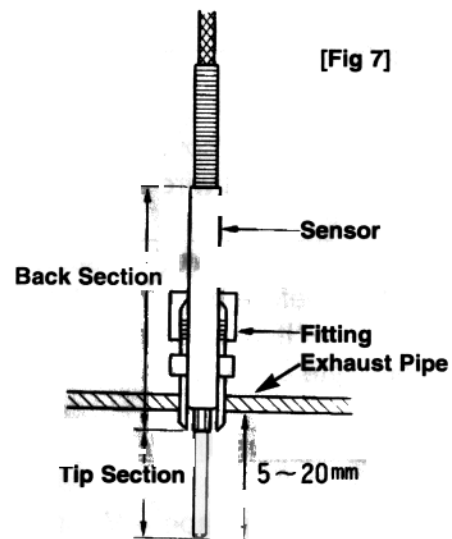
* The fitting mechanism resembles Fig 6 with the tapered side of the washer facing the same way as the tapered side washer in the figure. Be sure not to tighten the fitting too much. [Fig 6]



* Examine the depth of the exhaust pipe to determine a place where the sensor can be installed as shown in Fig 7. For reference purposes, the tip of the sensor should fall in the exact center of the pipe for optimum reading performance and accuracy with the distance from the pipe to the tip of the sensor measuring approximately 5 ~ 20 mm. Be careful not to push the back portion of the sensor (the section where the fitting is tightened) into the pipe. Exposing this section of the sensor into the pipe will drastically reduce the life of the sensor.



Harness Section



C) WIRING DIAGRAM

*Wire Harness A (Electrical Harness)

Red-Ignition, Accessory line

(A line with 12V when the ignition key is turned ON.)

White-Parking Light line

(A line with 12V when the parking lights are turned ON.)

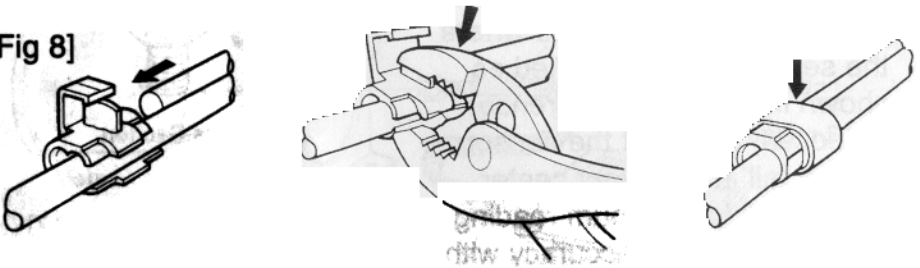
Black-Ground line

(To reduce noise, please avoid any body grounds.)

Please use the wire taps to connect the lines from wire harness A as shown in Fig 8.

- 1. Insert the main line into the connector side of the tap and then insert the cut wire into the other side until it hits the stopper.
- 2. Depress the metal tab into the tap using a pair of pliers.
- 3. Fold the cover over until it locks into position.

[Fig 8]



***Caution-** The cover and metal tab may be one piece in some of the included wire taps.

Caution- *Be sure to disconnect the negative terminal of the battery before beginning installation.

*It is recommended to solder all the wiring to ensure complete connections.

D) MISCELLANEOUS PARTS AND INSTRUCTIONS

***Double-sided tape ~ Velcro**

For use when mounting the circuit box without the use of screws

***Zip ties**

For use when mounting the harness related components.

***Harness Stickers**

For use when installing more than one meter so that similar looking harnesses are not confused.

This product may change for improvements without notification.
Thank you for your cooperation.
