Auto Meter COMPETITION INSTRUMENTS®

2650-652F

INSTALLATION INSTRUCTIONS
TEMPERATURE PROBE

MODELS: 5243, 5244, 5245, 5246, 5247, 5250
(5248 on reverse side)

IMPORTANT
WEAR SAFETY GLASSES

Installation These instructions contain the necessary steps of installing all temperature probes. Information specific to each type of probe will be discussed first, followed by the necessary steps common to all units.
IT IS IMPORTANT TO READ ALL RELATED INSTRUCTIONS PRIOR TO BEGINNING THE INSTALLATION!

NOTE: The length of the wire attached to the probe cannot to be modified (either lengthened or shortened) without affecting the calibration and readings on the gauge. If there is excess left after routing the wire, please coil it up and wire tie it loosely under hood.

Pro Series (5243 & 5245), Competition Series (5244 & 5246) & 5250 Intake Temp

Installation with compression fitting

1. These fittings are to be used on existing 1/8" NPT hole or on weld connector (see below). Make sure that material is of proper thickness to accept 1/8" pipe thread if weld connector is not used.
2. If used on turbo model, mount probe after turbo unit.
3. Now, using a marker or pencil, make a mark on the probe that is half the diameter of the header pipe plus one inch (the length of the compression fitting) from the exposed tip of the probe. Screw fitting tube body into 1/8" NPT hole (either existing or weld connector) and tighten securely.
4. Slip the nut (with the cup side to the exposed tip of the probe) and the ferrule onto the probe.
5. Insert the probe into the compression fitting base to the point where the ferrule and the line on the probe come together.
6. Holding the probe in place, tighten the compression nut 1-1/4 turns after finger tight (Caution, do not over tighten). This will insure that the probe is in the middle of the air stream and will set the ferrule on the probe sheath.
7. On 90˚ EGT probes loosen the nut to the point that the probe will turn, and, if room permits, align the transition spring and the lead wire at a 90 degree angle from the exhaust pipe. This will position the sender tip correctly in the exhaust stream.
8. Tighten the nut back down to secure the probe.
9. Connect wires from probe to the Temperature Module or gauge. (See gauge instructions)

Installation with weld connector

1. Select the intake/ header tube in which you wish to mount the probe.

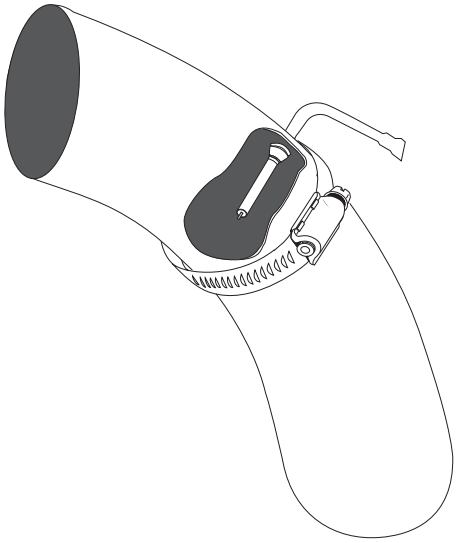
2a. On intake tube/duct install probe in a location where intake temperatures need to be measured.

2b. On exhaust headers measure a spot about four inches from the header flange. If more than one probe is to be mounted, it is important that all probes are located the same distance from the header flange. This will allow for equal comparison from cylinder to cylinder.

3. Once a spot has been located, drill a 9/16" diameter hole in the intake/header tube.
4. Center the weld-in connector around the hole and weld to the intake/header pipe a full 360 degrees with the compression fitting removed.
5. Continue with Step 3 above in the compression fitting section.

Clamp Style Competition Series Probe (5247)

1. Select the header tube in which you wish to mount the probe.
2. Measure a spot about four inches from the header flange. If more than one probe is to be mounted, it is important that all probes are located the same distance from the header flange. This will allow for equal comparison from cylinder to cylinder.
3. Once a spot has been located, drill a 1/4" diameter hole in the header tube.
4. Insert probe into hole and snug it to the header using the band clamp.
5. If room permits, align the transition spring and lead wire at a 90° angle from the exhaust pipe. This will position the sender tip correctly in the exhaust stream.
6. Tighten the band around the exhaust header pipe.
7. Connect wires from probe to Temperature Module or gauge. (See gauge instructions)



Tech Tips

1. When routing thermocouple wires to module or gauge, be sure not to bend or secure wires tightly. Make large radius bends and use wire ties to guide leads to module or gauge.
2. Route leads away from moving parts and extremely hot surfaces.
3. When using a cylinder head temperature probe, be certain spark plug seals properly.

INSTALLATION INSTRUCTIONS
TEMPERATURE PROBE CONT.

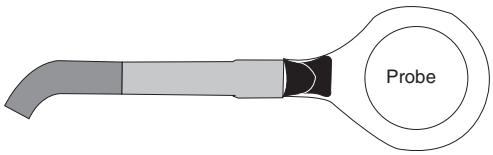
MODELS: 5248

IMPORTANT
WEAR SAFETY GLASSES

NOTE: The length of the wire attached to the probe is not able to be modified (either lengthened or shortened) without affecting the calibration and readings on the gauge. If there is excess left after routing the wire, please coil it up and wire tie it loosely under hood.

Cylinder-Head Temp. Probe (5248)

1. Remove Spark Plug.
2. Place Probe under spark plug bending probe slightly if necessary (careful not to break- See Illustration 2 and Warning) to clear head casting or any cooling fins (See Illustration 1). Make sure probe sits flat on cylinder head. Re-install spark plug.
3. Proper position of probe should not interfere with any other components.
4. Tighten spark plug to manufacturers specifications.



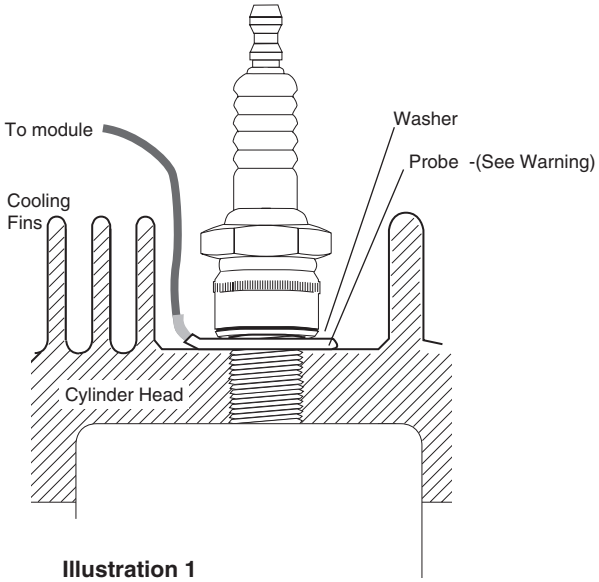


Illustration 1

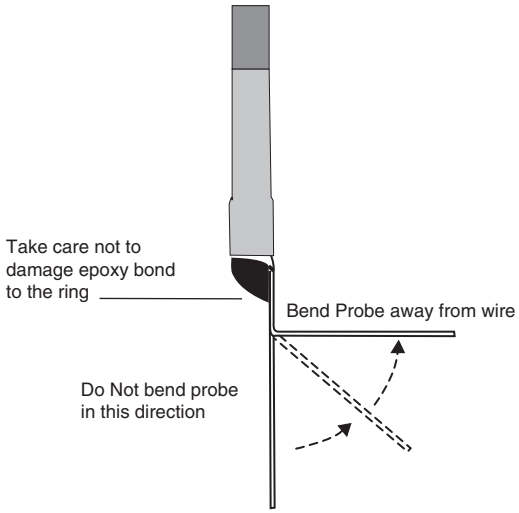


Illustration 2

Tech Tips

1. When routing thermocouple wires to module, be sure not to bend or secure wires tightly. Make large radius bends and use wire ties to guide leads to module.
2. Route leads away from moving parts and extremely hot surfaces.
3. When using a cylinder head temperature probe, be certain spark plug seals properly.

WARNING

The Probe wire must not be bent toward the wire side of the Probe, but away from it. Bending Probe toward wire will cause damage to Probe. See Illustrations above.