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Instructions for B751 Smiths TTI200/01-12V Temperature Transmitter Replacement Unit

Thank you for your purchase of this solid state, drop-in replacement for the now long obsolete and unavailable original Smiths TT 1200/01-12V temperature transmitter. It should give you many years of trouble free performance without the need to make any changes or additions to your original temperature gauge, wiring or electrical system. Notable features include:

- Limits maximum current to a safe value to assure your original temperature gauge is not over-powered and damaged.
- Temperature transmitter is likewise self-limiting to protect itself from being over-powered.
- Operates with either positive ground or negative ground systems without the need for making any changes.
- Components and materials used in the temperature transmitter are rated for continuous use in excess of the maximum operating temperature they should ever encounter in use, assuring a long service life.

This unit is calibrated to match the MG Magnette ZA ZB temperature gauge. You will find it is located in the engine's cylinder head, on the distributor side, located above the generator.

To begin installation:

1. First lower the engine coolant level a sufficient amount. Make certain ignition is off so that there is no power on temperature gauge.
2. Disconnect the electrical lead from the original temperature transmitter by undoing the slotted cheese head screw. **Caution!** *The temperature transmitter electrical lead should never be shorted to ground! If the ignition is turned on, full battery voltage will be applied across the temperature gauge, damaging it.*
3. The gland nut securing the temperature transmitter is then removed using a 5/8 inch AF socket or wrench. You then should be able to pull out the original temperature transmitter unit from the cylinder head, if it did not already come out with the gland nut.
4. This replacement unit can then be installed in place of the original. It is recommended you use an anti-seize compound when installing the replacement unit to make it easier in case it ever has to be removed in the future.

Sealing compound is unnecessary as the tapered seat on the unit provides the seal. Wrapping with Teflon tape is also unnecessary and not recommended.

For reference the screw thread for the electrical terminal connection is a metric M3 x 0.5 thread and a suitable replacement screw of 6 to 8 mm length should be used, in case the screw provided with the replacement temperature transmitter is inadvertently lost.

Made in the U.S.A.