



BAVARIAN AUTOSPORT

NPG+ Waterless Coolant Installation Instructions

PROCEDURE NOTES: The assumption is made that the installer has access to the applicable repair manual for the model being serviced. These instructions are not intended to be a 100% step-by-step coolant replacement procedure, but to note the unique steps involved in changing to the NPG+ waterless coolant. The manufacturer recommends that a maximum of 5% water (less is better) remain in the cooling system before adding the NPG+ coolant.

Refer to the appropriate owner's manual or repair manual, for your model, to determine cooling system capacity. Be sure that you have sufficient NPG+ to fully refill the system.

Be careful to capture all old coolant and dispose of properly.

All BMWs

PART NUMBER:

NPG+

PROCEDURE:

1. Remove radiator drain plug or lower radiator hose at the radiator nipple. Drain fluid into catch pan.
2. Remove engine block drain plug. Drain fluid into catch pan.
3. Remove thermostat. This will allow coolant in the upper engine to drain.
4. Disconnect at least one end of each coolant hose that you can access, and allow coolant to drain.
5. Remove one of the heater hoses that runs through the firewall to the heater core. Allow the fluid to drain. If you have compressed air (or a tube that you can slide over the nipple, to blow through), gently blow through the water pipe and heater core (use low pressure—20psi or less). You must have the heater controls set to full hot. On electrically controlled models, the key must be in the "RUN" position.
6. Install the thermostat housing (without the thermostat, if possible). Don't worry about using a new gasket, at this point. Replace all drain plugs and all hoses that were removed or disconnected.
7. Fill the system with water and run the engine. Keep heater set to full hot. If the thermostat is in place, run the engine until full operating temperature is reached. You can leave the radiator/reservoir cap off during this step. This will keep the system from building pressure as the coolant warms up.
8. Allow engine and coolant to cool a bit and repeat Steps 1 through 4.
9. Reconnect all hoses. Install all drain plugs. Install thermostat with new gasket or o-ring.
10. Fill cooling system with NPG+. Start engine and follow standard cooling system bleeding process as outlined in the appropriate repair manual (also outlined in the Summer 2005 issue of the Bavarian Autosport Fast Times newsletter. Available on-line at www.BavAuto.com/newsletter).



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