INSTRUCTIONS FOR TORALIN HEAD GASKET REPAIR KIT
FOR GASOLINE AND DIESEL ENGINES

PERMANENTLY SEALS:	WORKS ON:
Cracked Cylinder Heads	Gasoline and Diesel Engines
Blown Head Gaskets	Cast Iron or Aluminum Blocks & Heads
Intake Gasket Leaks	MLS — Multi Layer Steel Gasket
All Block Leaks	Copper Head Gaskets
Other Severe Coolant Leaks	

HOW BIG CAN A LEAK GET AND STILL BE REPAIRED?

Generally, the repair kit can stop a leak and apply a new layer to holes with a diameter of up to 0.75 mm and a groove with a width of up to 0.38 mm.
In order to get a good indication of the size of the leak without having to dismantle any parts, you can leave the engine running for 15 minutes while stationary. If there is no need to add any coolant within this period and the engine does not overheat then your car is a suitable candidate for being treated with this product.

PERFORMING A DIAGNOSIS:

Ensure that the coolant level is correct. Leave the car running for 15-20 minutes while stationary.
Check the coolant level. If there is no need to add any coolant and the engine does not overheat, then your car is suitable for treatment. If you have to add coolant then the car is **NOT SUITABLE** for the treatment.
We also disadvise the treatment if there is an extreme increase in pressure. Should this be the case then a loss of water will usually occur when the engine is allowed to run for 15 minutes while stationary.
If the above does not happen then the car is suitable for being treated.

IMPORTANT:

1. Follow the instructions precisely as described.
2. The car must cool down completely 3 times. This is very important! You will therefore generally have to leave the car in the garage for 3 days. **Complete cooling down** is deemed to be a minimum of 6 hours.
3. Flushing after step 1 (cleaning), is very important. Because the cleaning process generates a lot of rust, it must be properly removed so that the water exiting the system runs clear before continuing with STEP 2.
4. Do not drive the car in the meantime nor move it in the slightest.
5. Use the correct kit! The 6 litres kit for up to 6 litres of coolant, the 10 litres kit for 7 to 10 litres.
6. We recommend that you uncouple the heat radiator and connect a bypass. This will rule out any problems with the heater.
7. It is possible to temporarily remove the thermostat.

THE TORALIN HEAD GASKET REPAIR KIT CONSISTS OF 3 STEPS (BOTTLES)

Step 1 **CLEANING AND PREPARING OF THE COOLANT SYSTEM**
Step 2 **SEALING OF HEAD GASKET LEAKS**
Step 3 **AFTER-TREATMENT OF HEAD GASKET**

Note! *We recommend to uncouple the heat radiator and connect a bypass.*
This will rule out any problems with the heater. It is possible to temporarily remove the thermostat.

STEP 1 | COOLING SYSTEM PREPARE & CLEANER

Prepares system for sealing by cleaning the entire cooling system including the blown or cracked area where engine contaminants entered the cooling system.
A clean cooling system is the foundation for maintaining the proper temperature control necessary to promote the adhesion of Head Gasket & Block Sealant and insure the longevity of the seal.

Direction:

1. **Allow engine to cool.**
2. **Drain cooling system removing all antifreeze.**
3. **Shake well and add entire bottle of Cooling System Prep & Cleaner to the radiator.**
4. **Refill system with water and reinstall radiator cap.**
5. **Start vehicle.**
6. **After engine reaches normal operating temperature (thermostat opens), run for 10 minutes with heater on high and air conditioning off.**
7. **Turn vehicle off and allow engine to cool.**
8. **Drain system and flush cooling system and reservoir until water runs clear. It is extremely important because a lot of rust will be evacuated with water during the cleaning.**
9. **Go to STEP 2, "HEAD GASKET & BLOCK SEALANT".**

DANGER: Opening cooling system while engine is hot or running may cause severe burns.

STEP 2 | HEAD GASKET & BLOCK SEALANT

Sealant penetrates cracks and damaged or blown head gasket area, forming a seal stronger than the original head gasket itself. High strength fibers work like rebar in concrete creating a truly permanent seal.

Direction:

1. **Shake well. Mix Head Gasket & Block Sealant in bucket or container with approximately 2 quarts of water and shake well to obtain homogeneous mixture. Pour this mixture directly into the cooling system.**
2. **Fill cooling system with water and reinstall radiator cap.**
3. **Turn heater on high and air conditioning off.**
4. **Start vehicle and run engine until thermostat opens or normal operating temperature is reached.**
5. **Turn vehicle off and top off cooling system with water when radiator cap can be safely removed. Reinstall radiator cap.**
6. **Run engine at idle for 15 minutes.**
7. **Turn vehicle off and allow to cool.**
8. **Top off cooling system with water as needed and reinstall radiator cap.**
9. **Run engine at high idle (1500 RPM's) for 20 minutes.**
10. **Idle engine for 30 minutes.**
11. **Turn vehicle off and allow to cool completely.**
12. **Drain and flush system and move to Step 3,"HEAD GASKET & BLOCK TREATMENT".**

STEP 3 | HEAD GASKET & BLOCK TREATMENT

Antifreeze compatible treatment that protects & conditions the head gasket and all cooling system parts sealing and preventing future leaks. It is compatible with ALL types and brands of antifreeze including yellow, orange, pink, red, blue and green silicate based & non-silicate based (OAT / HOAT) coolant.

Direction:

1. **Shake well. Pour Head Gasket & Block Treatment directly into the radiator.**
2. **Refill cooling system with manufacturer's recommended antifreeze/water mixture.**
3. **Start vehicle and run engine until thermostat opens or normal operating temperature is reached.**
4. **Turn vehicle off and top off cooling system with antifreeze/water mixture when radiator cap can safely be removed.**
5. **Leave Head Gasket & Block Treatment in cooling system for continued protection. Drive vehicle as normal.**

**NOTE! AFTER REFILLING THE SYSTEM,
REMEMBER TO BLEED THE AIR FROM IT PROPERLY**