



BAR'S PRODUCTS TECHNICAL BULLETIN

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ISO 9001:2000 CERTIFIED

Bar's Leaks DiFM
Head Gasket Repair Kit

Part #: HG-3

HEAD GASKET REPAIR KIT



DiFM

Bar's Leaks Professional DiFM HG-3 Head Gasket Repair Kit is designed specifically for professional vehicle repair technicians to offer consumers a repair option when they don't have the money for the hard fix, or the repair will cost more than the vehicle is worth. It's three-step process is a complete head gasket set solution to permanently seal cracked cylinder heads, blown head gaskets, intake gasket leaks, block leaks and all other severe coolant leaks. It works on all gasoline and diesel engines (including the Cadillac Northstar), cast iron or aluminum blocks and heads, multi-layer steel gaskets, copper head gaskets and composite head gaskets. Bar's Leaks DiFM Head Gasket Repair Kit is the best Professional Head Gasket Repair & Block Sealant products money can buy! In fact, we are so confident that we back it up with a limited 3 month, 3,000 mile warranty.

Permanently Seals:

- Cracked Cylinder Heads
- Blown Head Gaskets
- Intake Gasket Leaks
- All Block Leaks
- Other Severe Coolant Leaks

Works On:

- Gasoline and Diesel Engines
- Cast Iron or Aluminum Blocks & Heads
- MLS - Multi Layer Steel Gasket
- Copper Head Gaskets
- Composite Head Gaskets

Part Number: HG-3
 UPC Item: 0 46087 01138 6
 UPC Case: 1 00 46087 01138 3
 Kit Size: 3 - 32 oz. bottles per kit
 Kit Dimensions: 10.2 x 3.8 x 9.8
 Kit Cube: 380
 Kit Weight: 6.5 pounds
 Case Dimensions: 10.8 x 8.4 x 10.8
 Case Cube: 980
 Case Pack: 2 Kits
 Case Weight: 13 pounds
 Pallet: TI 18 HI 4 Total 72
 Pallet Height: 48 inches
 Tariff Code: 3824.90.9290

Step 1

COOLING SYSTEM PREP & CLEANER

Prepares system for sealing by cleaning the entire cooling system including the blown or cracked area where engine contaminants entered the system.

This formulation contains particles suspended in a cleaning liquid allowing the material to not only penetrate & clean cracks and holes, but scrub and buff the surface to a like new condition.

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.

NOTE:

- Contains no acid, needs no neutralizing.
- Safe for use with ALL automotive and heavy duty cooling system.
- Harmless to all parts of the cooling system, including copper and aluminum.

Step 1 Directions:

1. Allow engine to cool. Drain cooling system removing all antifreeze.
2. Shake well and add entire bottle of Cooling System Prep & Cleaner to the radiator. Refill system with water and reinstall radiator cap.
3. Start vehicle. After engine reaches normal operating temperature (Thermostat opens), run for 10 minutes with heater on high and air conditioning off.
4. Turn vehicle off and allow engine to cool. Flush cooling system and reservoir until water runs clear.
5. Drain system and move on to *Step 2, Head Gasket & Block Sealant*.

DOSAGE

One Bottle treats cooling systems from 2.5 gallons (10 quarts) to 5.5 gallons (22 quarts).

Use ½ Bottle for 1.5 gallon (6 quart) to 2.4 gallon (9.5 quart) systems.



DANGER:

Opening cooling system while engine is hot or running may cause severe burns!

DISPOSAL:

Always observe local laws and regulations. Where permitted, dispose of in sanitary sewer system. Never pour antifreeze onto ground or into storm sewer system.

Step 2

HEAD GASKET & BLOCK SEALANT

This sealant penetrates cracks and damaged or blown head gasket area drying to form a seal stronger than the original head gasket itself. High strength fibers work like rebar in concrete to lock together and bond creating a truly permanent seal.

- PERMANENTLY:
 - Seals Cracked Cylinder Heads
 - Repairs Blown Head Gaskets
 - Stops ALL Block Leaks
- HEAVY DUTY FORMULA STOPS SMALL AND LARGE LEAKS
- REBAR LIKE FIBERS INCLUDE:
 - CARBON FIBER (*stronger than steel*)
 - ARAMID (*high strength like a bullet proof vest*)
 - REFRACTORY (*high heat like fire proof clothing*)

Step 2 Directions:

1. Shake well. Mix **Head Gasket & Block Sealant** in a bucket or container with approximately 2 quarts of water. Pour this mixture directly into the cooling system (radiator).
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 safely be removed. Reinstall radiator cap.
6. Run engine at idle for 15 minutes. Turn vehicle off and allow engine to cool.
7. Top off cooling system with water as needed and reinstall radiator cap.
8. Run engine at high idle (1500 RPM's) for 20 minutes.
9. Idle engine for 30 minutes.
Turn vehicle off and allow to cool.
10. Drain and flush system and move on to *Step 3, Head Gasket & Block Treatment.*

DOSAGE

One Bottle treats cooling systems from 2.5 gallons (10 quarts) to 5.5 gallons (22 quarts).

Use ½ Bottle for 1.5 gallon (6 quart) to 2.4 gallon (9.5 quart) systems.



ASTM D3147 LABORATORY TEST

Standard Test Method for Testing Stop-Leak Additives for Engine Coolants

This test method covers screening procedures for the preliminary evaluation of leak-stopping materials intended for use in engine cooling systems.

Gum/Gel Before	No
Gum/Gel After	No
Particles Before	No
Particles After	No
Screen	0.030
Final Round	0.030
Final Slot	0.015
Fluid Lost, mL	0

The results of this test show that a .030 round hole and a .015 wide slot (crack) can be successfully sealed with this product.

Step 3

HEAD GASKET & BLOCK TREATMENT

This antifreeze compatible treatment protects & conditions the head gasket and all cooling system parts sealing and preventing future leaks.

Contains coolant wetting agent which reduces water / antifreeze surface tension aiding in heat transfer lowering operating temperature.

Includes a special antifreeze compatible sodium silicate additive to prevent future minor head gasket seepage.

Use with ALL types of antifreeze, including conventional green or blue (Silicate-based) and extended life red/orange or yellow (OAT/HOAT) antifreeze.

Step 3 Directions:

1. Shake well. Pour Head Gasket & Block Treatment directly into 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. Leave Head Gasket & Block Treatment in cooling system for continued protection.
5. Drive vehicle as normal.

DOSAGE

One Bottle treats cooling systems from 2.5 gallons (10 quarts) to 5.5 gallons (22 quarts).

Use ½ Bottle for 1.5 gallon (6 quart) to 2.4 gallon (9.5 quart) systems.



ASTM D3147 LABORATORY TEST

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Gum/Gel Before	No
Gum/Gel After	No
Particles Before	No
Particles After	No
Screen	0.030
Final Round	0.030
Final Slot	0.015
Fluid Lost, mL	230

The results of this test show that a .030 round hole and a .015 wide slot (crack) can be successfully sealed with this product.