

# AGA Expanding Cooling Pipe



## Vehicles with the N62 Engine:

2002-2005:	BMW 745i & iL (E65 & E66)
2006-2008:	BMW 750i & iL (E65 & E66)
2004-2006:	BMW X5 4.4i/4.8is (E53)
2007-2010:	BMW X5 4.8i (E70)
2004-2005:	BMW 545i (E60)
2006-2010:	BMW 550i (E60 & E61)
2004-2005:	BMW 645Ci (E63 & E64)
2006-2010:	BMW 650i (E63 & E64)
2002-2005:	Range Rover

## **Symptom: Coolant Leak**

Coolant will be leaking from hole in front of timing cover (located close to water pump towards passenger side). In front timing cover, the hole is approx: ¼.

## **Problem:**

Rubber seal on aluminum cooling tube has failed. Coolant is leaking into back area of engine timing cover and out of hole.

## **Bigger Problem:**

Replacing this seal/tube is a very, very big job and very expensive.

## **Solution:**

Install an AGA collapsible cooling tube. We have designed a tube and seals that can be installed (by experienced tech) in under 10 hours.

## **Benefit:**

A potential \$7,000 – \$9,000 repair job is now achieved for less than \$2,000. Additionally, the repair can be completed same-day compared to 2-3 weeks.

Learn more about how this product works on YouTube...



## **All German Auto Customer:**

“...the service manager at my local BMW dealership began to tell me what had to be done to fix it. The Engine would have to be taken out and apart. The suspension would have to be dropped. The total cost for this would be \$11,000.00...”

Sincerely,  
Scott Monson  
Oceanside, Ca



**All German Auto - Your Dealership Alternative**

1327 Simpson Way, Escondido CA 92029 760.738.4626 Fax # 760.738.8013 [www.AllGermanAuto.com](http://www.AllGermanAuto.com)

## Parts included in this kit:

Qty.	Part #	Description	Price
1	AGA-N62-6061	Cooling Pipe Exp	\$548.00
1	AGA-N62-V SEAL	Eng. Block Front Seal	\$46.00
1	AGA-N62-35	Outer O-ring	\$4.00
2	AGA-N62-32	Inner O-ring (\$4.00 each)	\$8.00
<b>Total</b>			<b>\$606.00</b>

## Parts needed to replace cooling pipe/tube (not included in kit)

Qty.	Part #	Description	Price
1	11-53-1-710-048	Eng. Block Rear O-ring	\$2.85
1	11-51-7-507-717	Heat Pipe / WP O-ring	\$2.54
1	11-51-7-508-535	Water Pump Gasket	\$6.38
1	11-51-1-439-976	Pipe Pump/ Valley Pan	\$17.03
1	11-14-7-507-278	Valley Pan W/Gasket	\$80.35
2	11-61-7-521-181	Intake Man Gasket (\$38.04 each)	\$76.08
2	07-11-9-903-596	Cam. Adjuster O-ring (\$3.61 each)	\$7.22
1	12-31-1-439-988	Alternator Feed Pipe	\$14.90
<b>Total</b>			<b>\$207.35</b>

## Installation instructions:

**These instructions are for experienced technicians only. This job should only be done by an experienced technician.**

If instructions are needed to remove stock components refer to All Data, Mitchel or Factory Manual.

### Remove:

- Intake cam adjuster units, left & right
- Intake manifold (BMW Tis operation 11-61-050)
- Drain engine block for coolant
- Valley pan/cover
- Vibration Dampener (BMW Tis operation 11-23-010)
- Water pump (BMW Tis operation 11-51-000)

## Easy step by step instructions...

**Note – labor should only be performed by an experienced technician.**



1. Cut cooling tube and remove rear part by hand.



2. Drill a hole in the front part of tube.



3. Pull tube out with lever bar.



4. Remove old seal w/pick tool. Clean Seal Groove: Completely clean is a **must**, use a small wire brush to remove ALL debris from old seal, inspect with mirror.



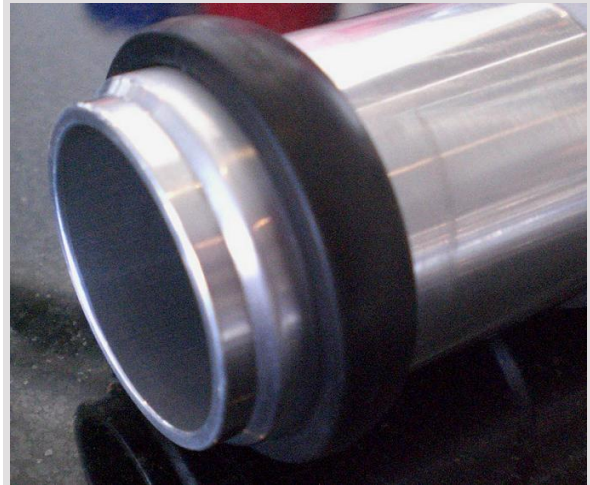
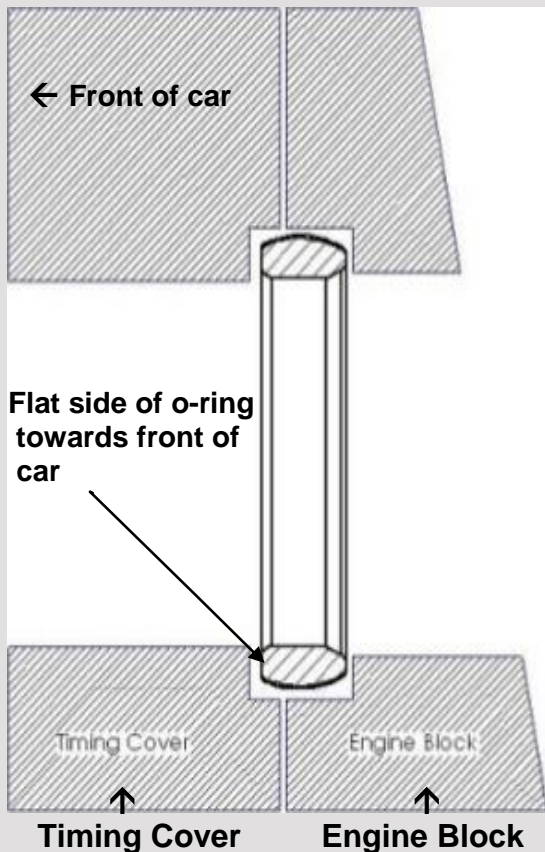
## Installation instructions continued:



### REPLACING REAR O-RING

[Part # 11-53-1-710-048]

5. Remove rear o-ring in back of engine block. Clean groove and install new o-ring. Part# 11-53-1-710-148 (Do not install the o-ring that comes on the pipe. It must stay in place on the pipe). Apply a little of the supplied grease to o-ring in rear of block.



### INSTALLING FRONT SEAL

[Part # AGA-N62-V SEAL]

(Seal placed on tube for shipping purposes)

Remove seal by hand from pipe.

6. Install engine block front seal. Flat end of the seal should be facing towards the front of the car when installed in engine block.

Apply white grease (supplied in the kit) to new seal; fold seal and insert into hole (see drawing on the left for directions).

Work seal into groove by hand.

Seal must be completely seated before installing tube. If necessary, push seal in place with a blunt tool (blue nylon tool supplied)

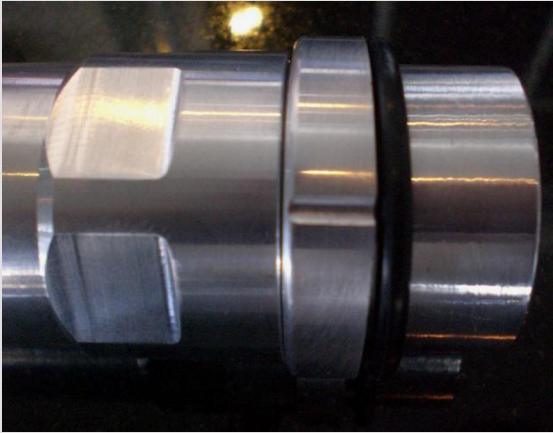
Take extreme care not to damage seal when installing.



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## Installation instructions continued:



**DO NOT REMOVE THIS O-RING**  
[Part #: AGA-N62-35]

### **INSTALLING COOLING TUBE** [Part # AGA-N62-6061]

7. Start with the tube collapsed. Lube tube on both ends with white grease (supplied in kit). Hold tube into engine block. Insert tube into rear of engine block. Turn tube so it expands, as front of the tube enters seal, observe front seal with mirror from water pump side as the tube goes into seal. Seal **cannot** be pinched. If seal pushes out, collapse tube a bit, turn tube without expanding a few turns and then continue expanding until seal can no longer be seen from water pump side.



8. Rotate rear ring so the machine notch is straight up. Angled side is towards rear of engine block and o-ring. Tighten tube by hand until it has tension on front and on the rear o-ring. Note: the back at the block is cast and will vary from car to car. It is normal for o-ring to contact more on top or bottom.



Do not over tighten!

### **Final assembly and testing:**

- Install all parts to seal cooling system.
- Pressure test system to 15 Psi for a minimum of 3 hours.
- Observe for leaks in system and no leaks from the hole in the front timing cover.

### **Reassemble.**

**For inquiries or further instructions  
please call our friendly and  
knowledgeable staff**

**1.760.738.4626**



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