



## Required Equipment

- Heavy duty scissors or utility knife
- Dust Mask
- Safety Glasses
- Gloves
- Long Sleeves (optional)
- Diagonal pliers
- Needle nose pliers
- Poster board or cardboard for template

### WANT TO BE **FEATURED**?

FOLLOW, POST, TAG:  
@HEATSHIELDPRODUCTS  
#RACETESTED

## Installation Tips

Heatshield Armor™ is an exhaust heat shield blanket that is designed to retain heat in the exhaust system. Heatshield Products recommends

Be sure to leave a 1-2" gap of uncovered exhaust pipe along the seam when installing Heatshield Armor™. For naturally aspirated automotive and truck applications. Use Heatshield Armor™ with 1/2" thickness for all forced induction, racing, and DPF applications and use a 2-3" gap along the bottom of the exhaust pipe.

**GAP GUIDLINE** - For pipes 2-1/2" diameter or less use a 1" gap. For pipes 3" or greater in diameter use a 2" gap.

**FLEX PIPES**- All flex pipes should have a separate piece of Heatshield Armor installed on them. Do not cover a flex pipe and solid pipe with one piece, it will prematurely cause a failure of Heatshield Armor.

## Installation Steps

1. Heatshield Armor can only be installed on a clean exhaust system. Exhaust system components must be degreased and cleaned so that no debris or chemicals remain on the pipes. Failure to do so may result in debris or chemical combustion.
2. Safety glasses, gloves, and dust mask are REQUIRED when handling Heatshield Armor. Wearing a long sleeve shirt is also recommended.
3. Use butcher paper or poster board to create a template for the armor (Images 1-3). When making your template be sure to include a 1-2" gap on your exhaust pipe.
  - 3A - Measure the OD of your pipe(s), then multiply by the outside diameter by 3.14. Subtract 1" for pipes 2-1/2" or less, subtract 2" for exhaust pipes that are 3" in diameter or greater. This is the width you should trim your template for Heatshield Armor. This gives the proper gap to cover your pipe. For example, 3" diameter pipe:  $3 \times 3.14 = 9.42$  now  $9.42 - 1 = 8.42$ " width for Armor. Move to Step 3C.
  - 3B - Measure length. Write this measurement down. For 1/4" thick Armor add 1/2" to length measurement. For the 1/2" thick Armor and add 1" to length measurement. The extra material is for Step 7.
  - 3C - For exhaust bends cut wedges (pizza slices) into poster board to help get around the curve. For complex pipes with multiple bends, it may be necessary to make the armor into a "clamshell" on the pipe (Images 13-16)
4. Test the template and make any changes at this time. When test fitting, make sure the gap in the armor (Images 11 & 12) is facing in the proper direction (normally towards the ground or away from interior of vehicle). Trace template onto the Heatshield Armor (Image 4).
5. Cut out Heatshield Armor with heavy duty scissors.
6. Use utility knife to trim either 1/4" or 1/2" of the BioCool™ insulation (depending on thickness of the Armor) from all edges (Images 5-7). Fold over outer armor layer (Image 8) to give the Heatshield Armor a finished edge.
7. Take the Heatshield Armor and place the insulation side directly on the exhaust pipe (Images 9-16). The insulation goes directly on the freshly cleaned exhaust pipe, the aluminum side should be facing out.
8. Be sure to face the gap in the direction (normally towards the ground) you would like to divert the heat to. This is a great time to test fit one final time. Optional - you can customize your Heatshield Armor by painting it with any high-temperature engine or exhaust paint.
9. Secure with Thermal-Tie™, HP Power Anchor™ (sold separately if kit not purchased), HP Tie Wire™, safety wire, or clamp.

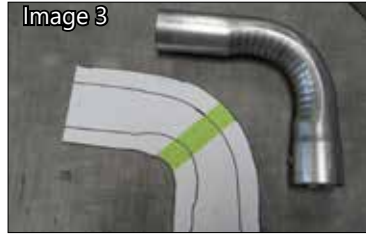
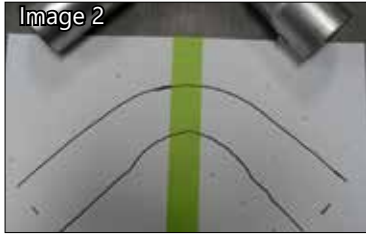
# HEATSHIELD ARMOR™

## Product Installation Sheet

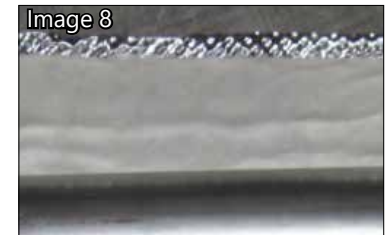


### Images

Images 1-4: Make template, trace onto Armor



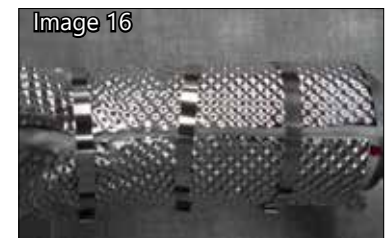
Images 5-8: Trim 1/4" or 1/2" of insulation from the edge



Images 9-12: Installed on pipe with gap



Images 13-16: "Clamshell" on pipe for complicated or tight bends



### CHECK OUT: **HP POWER ANCHORS**

- Easy to use stainless steel anchor system
- Works on both Heatshield Armor series and similar products
- Kits include Inconel wire
- Works with standard pop rivet gun
- Made in the USA



PART NO.	DESCRIPTION
354012	10 anchors
354014	20 anchors

#### PLEASE NOTE:

Heatshield Armor may smoke after installation; it will eventually stop. Smoke is a normal by product of the curing process; your Heatshield Armor™ will not burst into flames.

**HEATSHIELD PRODUCTS, INC.**

Escondido, CA

©Heatshield Products, Inc.

AMERICAN  
MADE SINCE 1985



(760) 751-0441

tech@heatshieldproducts.com

www.heatshieldproducts.com