

## REQUIRED EQUIPMENT:

- Heavy duty scissors
- Utility knife
- Needle nose pliers
- Diagonal pliers
- Safety Glasses
- Dust Mask
- Gloves
- Butcher paper, cardboard, or poster board
- Sharpie or other marker
- Long Sleeves (optional)

## INSTALLATION:

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. Patience is key. Going slow and taking your time will help to make Armor fit snug and secure. Be careful, you will be working in tight areas, swear words are not recommended, but in some cases they are necessary.
3. Make a template out of butcher paper, cardboard, or poster board.
4. Fit the paper template/Header Armor so it covers the top half and sides of your header runners/pipes. Also take note if you need to make accommodations for spark plug boots and wires. Make sure it does not come in contact with an live electrical circuits or wires as the Header Armor is electrically conductive (Images 1-3).
5. For tight 90° bends, cut wedges (Image 3) into your template to eliminate buckling of Header Armor.
6. Be sure to make your template  $\frac{1}{4}$ " or  $\frac{1}{2}$ " bigger (depending on the thickness of your Header Armor) on all sides than the actual desired size. This allows you to give your Header Armor a finished edge.
7. Cut out template do a test fit. If it doesn't fit go, back to Step 2. If it does fit trace onto Header Armor (Image 4).
8. Carefully cut the Header Armor with your heavy duty scissors.
9. Make another test fit on the header. Make and necessary cuts or adjustments to the Header Armor at this time.
10. Use utility knife to trim either  $\frac{1}{4}$ " or  $\frac{1}{2}$ " (depending on thickness of Header Armor) of the insulation only back from the edge. Do not cut through to the aluminum (Images 5 & 6).
11. Fold the aluminum layer, down to cover the edge of the insulation (Images 7 & 8).
12. Locate the exhaust pipe, and note it's location on out outer aluminum side of the Header Armor. At the point closest to the cylinder head. Take the included wire and make a "U" Shape. Use one end of the wire to pierce the outer aluminum layer on one side of the exhaust pipe. Use the other end of the wire to make another hole on the other side of the exhaust pipe (Image 9).
13. The two ends of the wire should meet on the opposite side of the exhaust pipe.
14. Use needle nose pliers to twist and tighten the wire. Use diagonal pliers to cut off excess wire (Image 10).
15. Tuck the twisted wire up under the Header Armor, with the tips face toward the insulation. Make sure it is positioned so that hands will not accidentally be poked if working on the vehicles at a later date (Images 11 & 12).
16. Repeat steps 7 through 10 as often as needed for a secure fit. Be sure to have at least 1" minimum space between wire fastening points.
17. Clean up and go have fun!



**SAFETY GLASSES REQUIRED**



**GLOVES REQUIRED**



**DUST MASK REQUIRED**



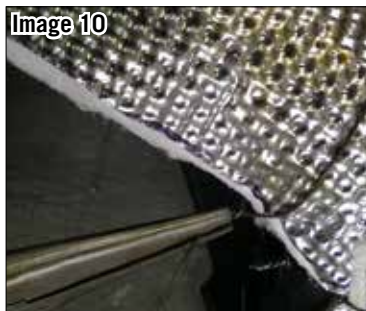
**Images 1-4: Make template, trace onto Armor**



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



**Images 9-12: Install on header**



**Finished samples:**

