

# Design Engineering, Inc.

604 Moore Road  
Cleveland, OH 44012



THERMAL TUNING PRODUCTS

## Installation Instructions

### DEI Exhaust Wraps™

| KIT CHECKLIST |                                     |
|---------------|-------------------------------------|
| 1             | DEI Exhaust Wrap Roll(s)            |
| 1             | HT Silicone Coating (Kit Only)      |
| 8             | 8" Stainless Steel Ties (Kit Only)  |
| 4             | 14" Stainless Steel Ties (Kit Only) |

| NOTE                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|
| It is recommended that DEI Stainless Steel Locking Ties, and HT Silicone Coating be used during installation for most effective results. |

### DIRECTIONS

- 1 - Prior to wrapping, consult the material chart (page 2) to make sure you have enough wrap before you begin.
- 2 - You may also soak an unraveled roll of wrap prior to installation so that it is made more pliable and easier to tighten while wrapping.

Wrapping a pipe takes time and concentration. The tighter the wrapping the better the hold and less chance of a loose or irregular fit. Consider anchoring one end of the wrap as it will aid in a much tighter wrap which results in better heat isolation.
- 3 - Start wrapping the primary tube tightly at the exhaust port and secure it with a stainless steel locking tie or hose clamp. Remember, when wrapping to use the guidelines as testing has shown that utilizing a 1/4" overlap produces the best results without adversely affecting headers and tubing.
- 4 - Where primary tubes become closer together, wrap both pipes as one while using the same 1/4" overlap.
- 5 - Proceed to wrap the collector securing both ends with stainless steel locking ties or hose clamps.
- 6 - If wrap was soaked, let dry prior to using HT Silicone Coating Spray.
- 7 - To increase the integrity of the wrap and increase heat isolation it is recommended that HT Silicone Coating Spray be used. It will also protect the wrap from oil and debris while enhancing its appearance.

\*It is always important to apply HT Silicone Coating Spray in a well ventilated area.
- 8 - Apply HT Silicone Coating Spray with steady even strokes at a distance of 8-10 inches. Several light coats should be applied with adequate drying time in between coats for more effective heat isolating properties and appearance.
- 9 - After HT Silicone Coating Spray is set, reinstall header and start up engine. A baking effect takes place when temperatures reach 400°F. This will make the silicone bond to the surface of the wrap.
- 10 - During this curing process, your wrap may begin to smoke for a short period of time - this is **NORMAL**. Smoking may occur several days after installation and should eventually stop. A reminder, it will not burst into open flames of anykind.
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- 12 - When cleaning surface dirt and debris DO NOT use a high pressure hose as it can strip HT Silicone Coating off and may loosen the wraps fibers. HT Silicone Coating Spray can be reapplied anytime after initial installation to enhance the appearance and reinforce the wraps isolating properties. Use a wet shop cloth to remove dirt and debris from the coated exhaust wrap.



| DEI Exhaust Wrap Roll                       |                       |                      |
|---------------------------------------------|-----------------------|----------------------|
| Tube Dia.                                   | 1" Wrap               | 2" Wrap              |
| 1-3/8"                                      | 70" per foot of pipe  | 30" per foot of pipe |
| 1-1/2"                                      | 76" per foot of pipe  | 33" per foot of pipe |
| 1-5/8"                                      | 82" per foot of pipe  | 35" per foot of pipe |
| 1-3/4"                                      | 88" per foot of pipe  | 38" per foot of pipe |
| 1-7/8"                                      | 95" per foot of pipe  | 41" per foot of pipe |
| 2"                                          | 101" per foot of pipe | 44" per foot of pipe |
| 2-1/8"                                      | 108" per foot of pipe | 46" per foot of pipe |
| 2-1/4"                                      | 113" per foot of pipe | 49" per foot of pipe |
| 2-1/2"                                      | 125" per foot of pipe | 52" per foot of pipe |
| 3"                                          | 136" per foot of pipe | 60" per foot of pipe |
| Add an additional 8" for every bend in pipe |                       |                      |