

# CAT-RAP™

CATALYTIC CONVERTER SECURITY™

## Parts List

- A. Stainless Steel Security Plates with
  - a. Eleven (11) pre-installed hex head screws
  - b. Four (4) one-way screws
- B. Two (2) 17.5 feet lengths of Stainless-Steel Cable
- C. Stainless Steel Cover

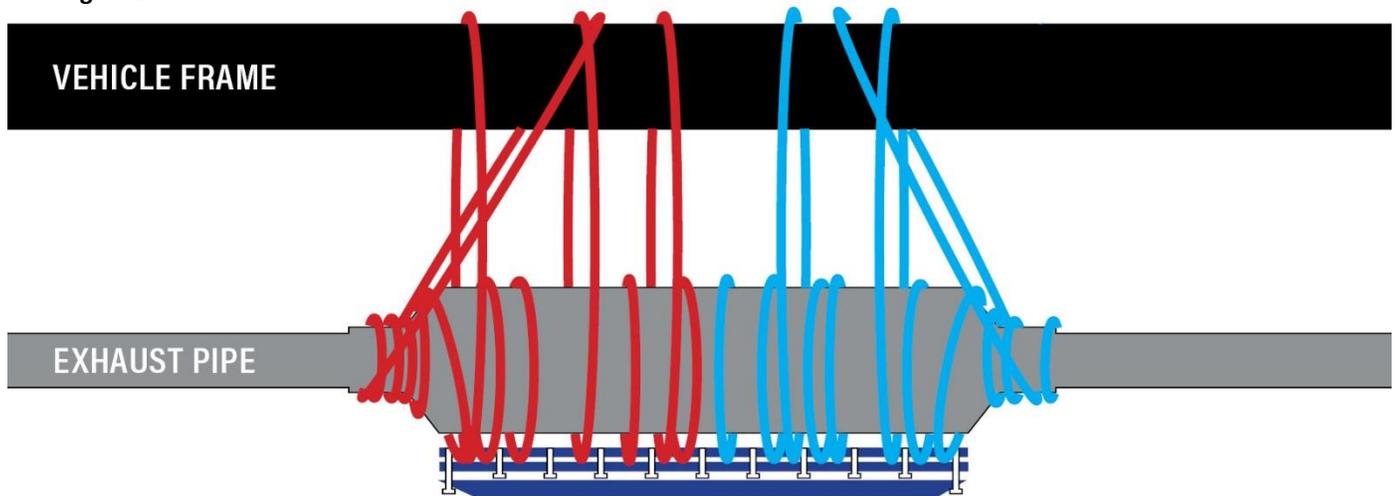
## Recommended Tools

- Safety Glasses
- Work Gloves
- Impact Drill or Wrench with 1/4" socket
- Flat Head Screwdriver



The CAT-RAP™'s unique design allows it to accommodate a wide variety of vehicle types and Catalytic Converter (CAT) positions (*i.e., vertical vs. horizontal*). There are many ways to install your CAT-RAP. The intent of this theft deterrent is to confuse, frustrate and create enough time or hassle that a thief will ultimately look for an easier target. The more wraps made around the CAT, exhaust pipe and vehicle frame, the more secure your CAT will be.

Figure 1



**Note:** Start in the middle and wrap outward. A minimum of 3 to 4 wraps is recommended around the center and each end of the exhaust pipe.

**WARNING #1:** Due to extreme temperatures, do not attempt installation or modification of the CAT-RAP within five (5) hours of vehicle operation.



PATENT PENDING

**CABLE WRAPPING STRATEGY:** The CAT-RAP's security plate system is designed to be universal and adapt to most vehicles. The CAT-RAP allows for up to 20 individual security loops as the cable can be inserted through each plate channel up to two times. As the cable passes through the plates, it creates secure, individual loops around the CAT and vehicle frame. Once tightened, if one loop is tampered with, the remaining loops will not be affected.

The best strategy is to utilize a sequence of tight wraps combined with looser wraps. The looser the cable, the harder to cut. However, be sure to adhere to the WARNING (#2) message below. It is recommended to start with 3-4 tight wraps first in the middle of the CAT and working your way to one side. Then use the remaining cable to create a series of looser wraps that surround the CAT and secure to the vehicle frame.

**WARNING #2: All vehicles have unique undercarriage configurations. Make sure CAT-RAP and/or Cable is NOT touching, pinching, or compromising any electrical wires, brake lines, heat shields and/or critical drive train components. Also be sure the CAT-RAP or any cable is not hanging lower than any other part of the vehicle undercarriage before final tightening of the security plates.**

### INSTALLATION:

To ensure maximum security, it is recommended to have 3-to-4 wraps "tightly" around the middle of the CAT first to hold the device firmly in place during installation. This will also help eliminate any potential for vibration and/or road noise.

1. Read WARNING (#1) to ensure the vehicle is install ready. Then position Security Plates (*Part A*) under the Catalytic Converter (CAT) with the screw heads facing away from the CAT (*i.e. make sure they are accessible to tighten after routing the cable*).
2. While holding the security plates against the CAT, insert "un-ferruled" end of **CABLE ONE** (*Part B*) through the center channel (*see Figure 1*) of the security plates. Pull all the way through until the cable stops against the "ferruled" end.
3. Wrap the "un-ferruled" end tightly around the CAT and route through an adjacent channel in the security plates. Continue wrapping from the center working your way to one end of the CAT. (*Refer to Figure 1*)
4. Once you reach one end of the CAT, make a series of 2-to-4 tight wraps around the exhaust pipe where it is connected to the CAT. Then wrap the remaining cable a little looser (*allowing it to flex 1-2 inches each way*) alternating between the CAT and vehicle frame. Continue wrapping the cable around the CAT/Vehicle Frame (*Refer to Figure 1*) until there is only 2-to-3 inches of cable remaining after final insertion into the security plates.
5. **CABLE TWO:** Repeats steps 1-4 with the second cable but this time wrapping in the opposite direction. Just as before, start in the middle. **Please note: some vehicles may only require one length of cable to complete the install.**
6. Once the wrapping is complete, verify that you have at least 3-4 wraps total around the CAT; 3-4 wraps tightly around each side of the exhaust pipe where it connects to the CAT and 3-4 loose wraps around the frame. Be sure to adhere to the WARNING (#2) above before moving to step 7.
7. Tighten security plates with impact drill or wrench using a 1/4" hex socket. DO NOT tighten the four (4) one-way screws yet.
8. Attach cover plate (*Part C*) and secure with the four (4) one-way security screws using a flat head screwdriver (*See Figure 2*). Please note: The cover plate screws are being temporarily held into place with a temporary threadlocker. Therefore, pliers may be needed to make the initial 1/4 turn of the one-way screws before final tightening with a screwdriver.

**The CAT-RAP™ is covered by a one (1) year warranty. Warranty does not extend to the cost of a replacement converter.**

**Figure 2 - Completed Install**



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