# YOSHIMURA

RESEARCH&DEVELOPMENT OF AMERICA, INC.

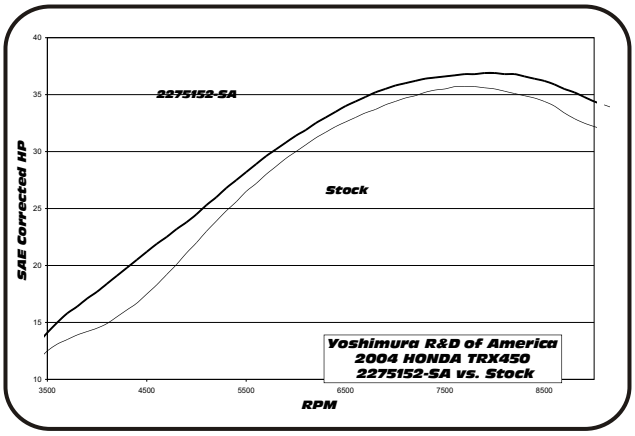
5420 DANIELS STREET STE A, CHINO CA. 91710 · (800)634-9166 · (909)628-4722 · FACSIMILE (909)591-2198

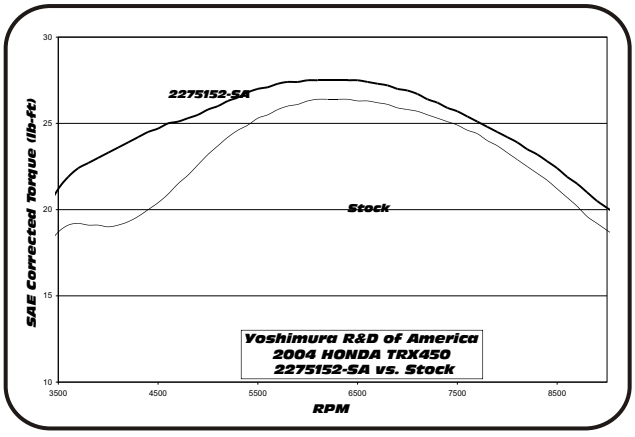
**www.yoshimura-rd.com**


## YOSHIMURA PERFORMANCE EXHAUST SYSTEM

**2004-2005 HONDA TRX450R**

| | |
|---|---|
| **2275152-SA** | *TITANIUM PRO FULL SYSTEM WITH CARBON FIBER* |
| **2275157-SA** | *TITANIUM PRO FULL SYSTEM WITH TITANIUM* |




Note: Dyno graphs are for comparison use only. Actual results may vary depending on operating and motorcycle condition.

**THIS PRODUCT IS DESIGNED FOR USE IN CLOSED COURSE RACING AND IS NOT INTENDED FOR ANY OTHER USE.**

***CAUTION: The muffler packing on this system MUST be replaced every 6-8 hours of use, or after each moto. Failure to follow recommended muffler re-packing interval can cause muffler damage and may void the warranty.***

NOTE: IN THE STATE OF CALIFORNIA, IT IS ILLEGAL TO MODIFY THE EMISSION CONTROL SYSTEM. WHICH INCLUDES THE CARBURETORS OF ANY VEHICLE.

***Caution: Exhaust system can be extremely hot. Let motorcycle cool down before beginning installation.***

***Note: Read through all instructions before beginning installation.***

## Tools Needed:

*10mm, 11mm, 12mm Sockets*
*Ratchet Wrench and Extension*
*12mm Wrench*
*6mm Allen Wrench*
*Torque Wrench*

## Installation Steps:

1. *Loosen stock tailpipe collector clamp. Unbolt and remove stock muffler. (see Fig. 1 & 2)*

2. *Remove stock rear heat shield from stock header and install onto Yoshimura header using stock bolts. (See Fig. 2). Install supplied front header heat shield onto Yoshimura header using stock hardware.*

3. *Remove stock header and exhaust port gasket. (See Fig. 3)*

   *NOTE: When installing supplied manifold and flange do not use the stock exhaust port gasket. The manifold is designed to bolt directly to the exhaust port face.*

4. *Install supplied manifold and flange using stock nut and bolt. Torque flange mount bolt & nut to 1.0 kg-m (7.3 lb-ft)*

5. *Slide Yoshimura header onto stainless steel manifold. Ensure header is fully seated, hook supplied springs onto flange and header using supplied spring puller tool. (See Fig. 5)*

6. *Slip Yoshimura tailpipe with muffler onto header. Hook supplied springs from tailpipe to header using spring puller tool.*

7. *Apply heat insulator to inside of muffler clamp and slide clamp onto muffler. (Note direction of clamp in Fig. 4)*

8. *Mount muffler clamp to upper stock chassis mount*

Fig. 1

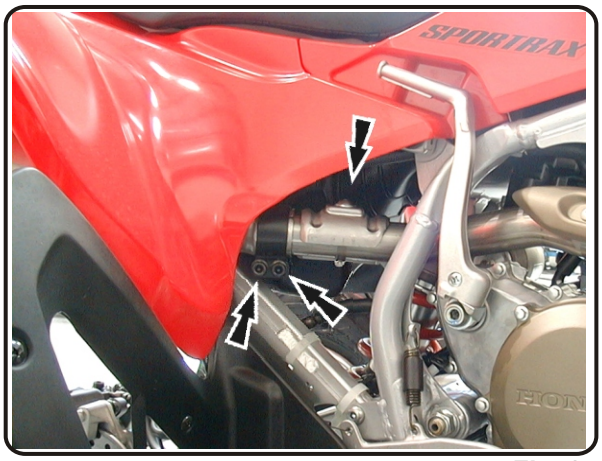


Fig. 2

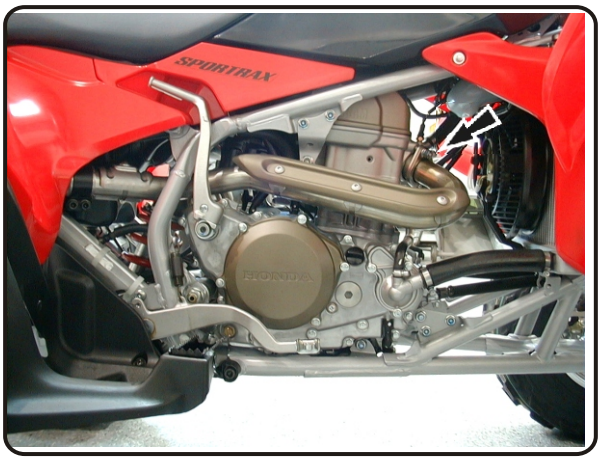


Fig. 3

9. ***Bolt tailpipe chassis mount to ATV lower frame mount using stock bolt, washers, and nut.***

10. ***Torque muffler and chassis mount bolts to 2.5 kg-m (18 lb-ft)***

11. ***It is recommended that the entire exhaust system be wiped down with rubbing alcohol to remove oil and fingerprints. This will help prevent tarnishing of the finish after the exhaust is heated up.***

12. ***Before starting motorcycle check for proper clearance between new exhaust system and motorcycle. (i.e. rear brake, frame, tire, etc.) If any problem is found, please carefully follow through the installation steps again. If a problem still persists please call the Yoshimura Technical Department at (800)634-9166, in California call (909)628-4722***

    ***NOTE: After starting motorcycle, it is normal for new exhaust system and muffler to emit smoke until oil residue burns off.***

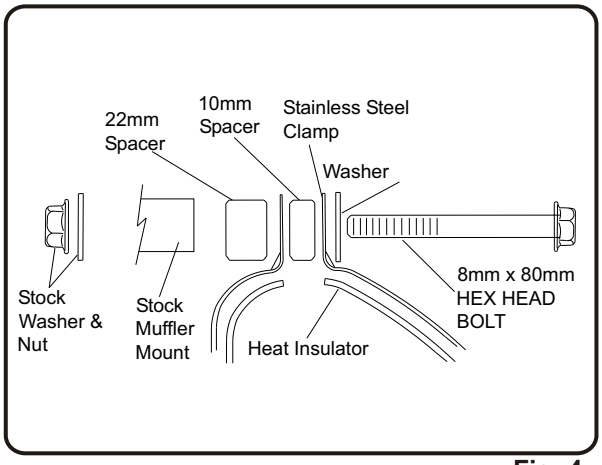



**Fig. 4**

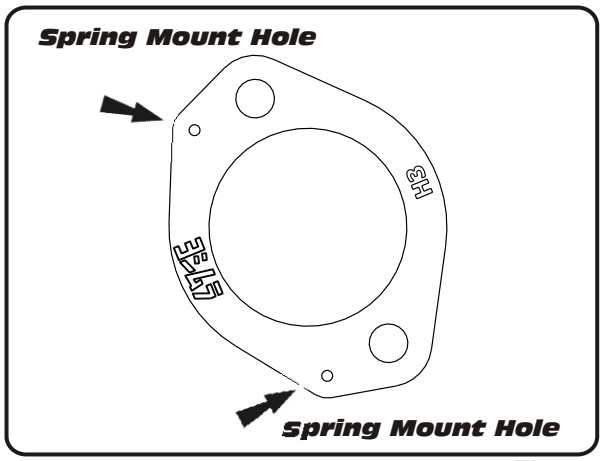
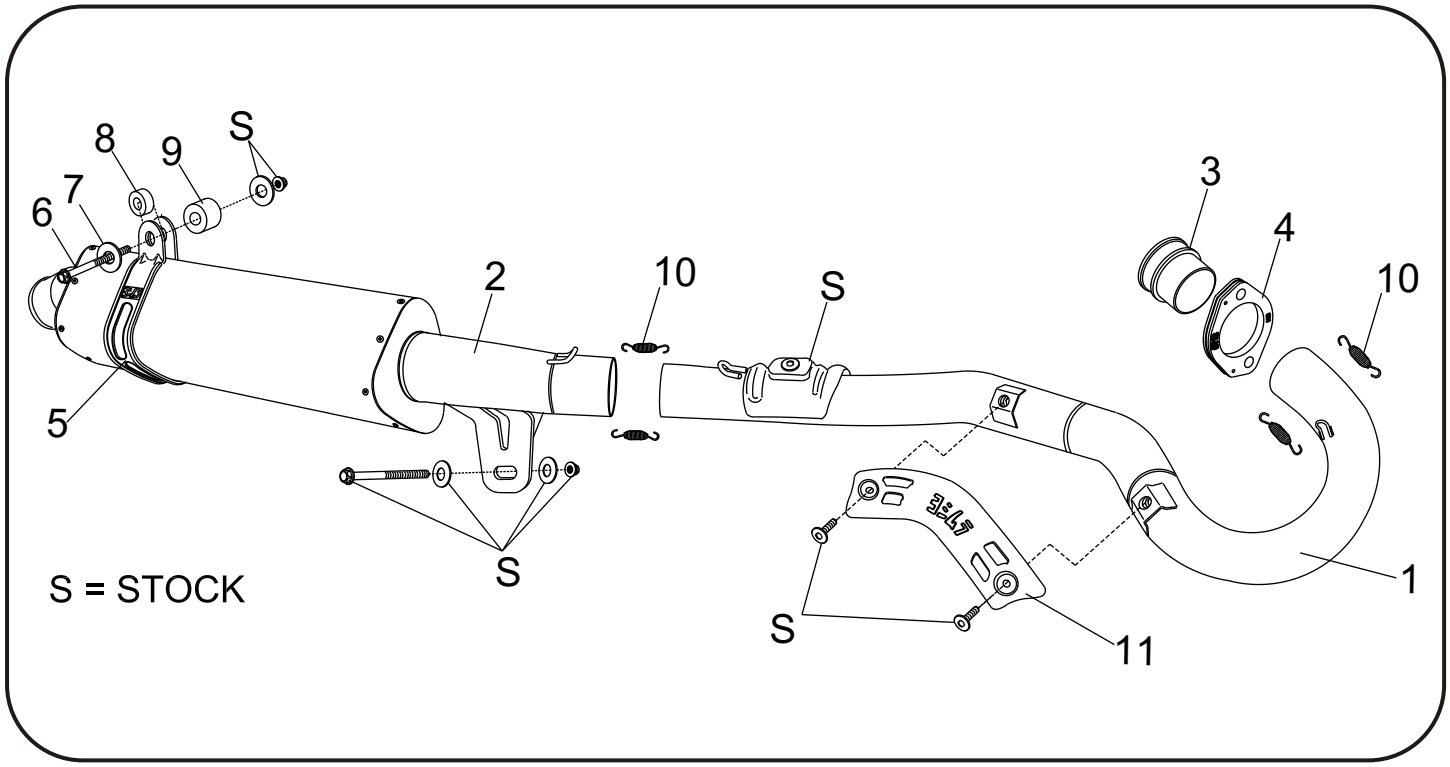



**Fig. 5**

# #2275152-SA/2275157-SA




Parts Diagram

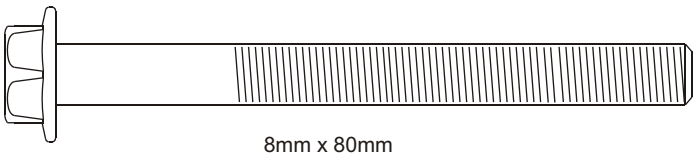
| NO. | DESCRIPTION | QTY | PART # |
|---|---|---|---|
| 1 | Yoshimura Header<br>Titanium Pro | 1 | <br>2275-704 |
| 2 | Yoshimura Tailpipe with TRS Muffler<br>Titanium Pro | 1 | <br>** |
| 3 | Stainless Steel Manifold | 1 | 2252SDM |
| 4 | Aluminum Flange | 1 | 2250ADR-TI |
| 5 | Stainless Steel Muffler Clamp<br>Titanium Sleeve use<br>Carbon Fiber Sleeve use | | <br>CTS089X<br>CTS089 |
| 6 | 8mm x 80mm Flange Hex Bolt | 1 | M8X80H |
| 7 | Large Washer | 1 | 8MMWASHERL |
| 8 | 8mm X 10mm Aluminum Spacer | 1 | 8X10SPC |
| 9 | 8mm X 22mm Aluminum Spacer | 1 | 8X22SPC |
| 10 | 2.5" Exhaust Spring | 4 | RACE-SPS-1 |
| 11 | Yoshimura Header Heatshield | 1 | 2275-HS |
| ** | Spring Puller Tool | 1 | ST-200 |
| ** | Muffler Clamp Heat Insulator | 1 | HT SHLD-14B |
| ** | Yoshimura Vinyl Sticker | 2 | 17028-BLK |

## Jetting/Tuning

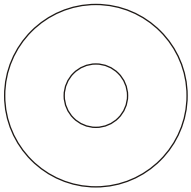
Stock jetting is recommended with no air box modification.

For improved performance remove snorkel from air box and install a 145 main jet.

## Nuts and Bolts Guide (Actual Size):



8mm x 80mm
Flange Hex Bolt



8mm Large Flat Washer

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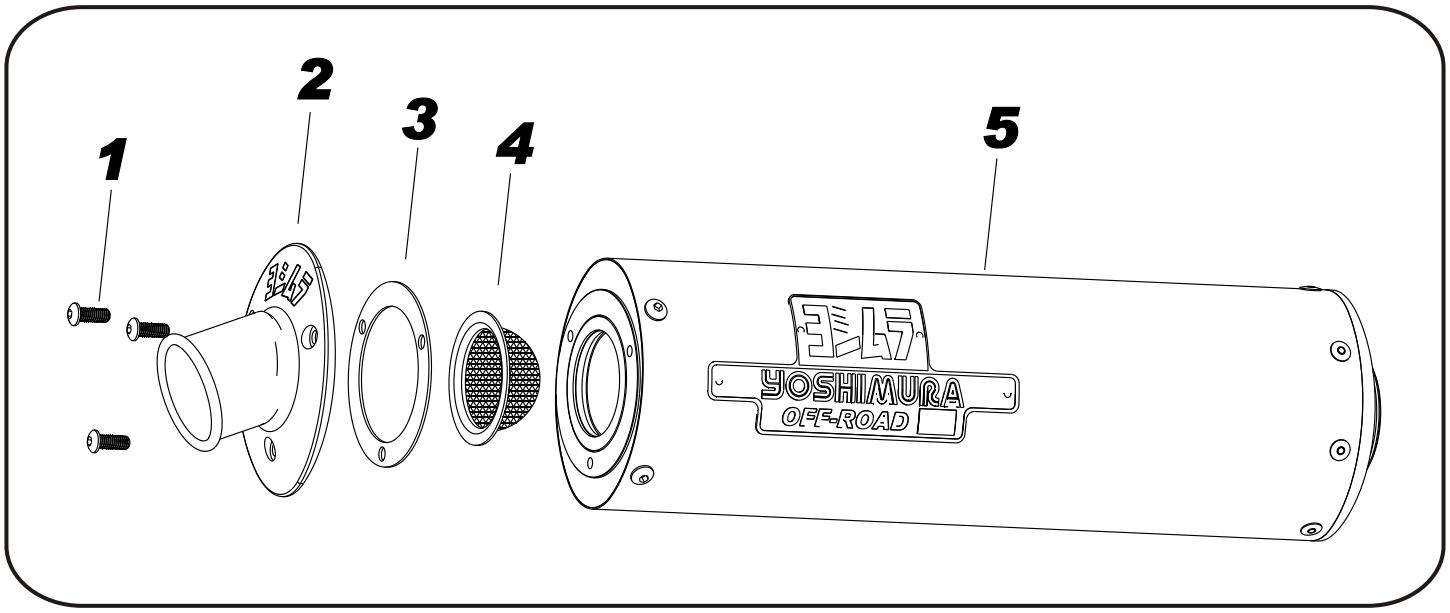
# TEC-SA Spark Arrester Cleaning Information




Parts Diagram

**Caution: Muffler can be extremely hot. Let muffler cool down before removing spark arrester.**

**Note: Read through all instructions before beginning disassembly.**

| NO. | DESCRIPTION | QTY |
|---|---|---|
| 1 | 6 x 1.0mm x 16mm Button Head Screw | 3 |
| 2 | 4.0" YRD End Cap, Cover | 1 |
| 3 | T.E.C. End Cap, Gasket | 1 |
| 4 | T.E.C. End Cap, Spark Arrester | 1 |
| 5 | Muffler Assembly | 1 |

## Tools Needed:

*4mm Allen Key*
*Wire Brush*
*Pair of Gloves*
*Safety Glasses*

## Cleaning Steps:

1. *Using a 4mm Allen key remove the three 6mm x 16mm Button Head Screws located in the muffler end cap. (See Parts Diagram for location)*

2. *Remove the end cap, gasket and spark arrester from the muffler.*

3. *Using a wire brush remove carbon deposits from spark arrester screen. Once clean inspect the screen for excessive wear or damage, if any is found the spark arrester must be replace. Cleaning and inspection should be performed after every 60 hours of use.*
   *(Caution: Gloves and Safety Glasses should be worn while cleaning spark arrester.)*

4. *Re-install spark arrester, gasket, end cap and 6mm x 16mm screws into muffler assembly. Torque screws to 1.0 kg-m (7.3 lb-ft)*
   *(Note: It is recommended that a low strength "Loc-tite" is used on the screws.)*