



# 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](http://www.yoshimura-rd.com)

## **YOSHIMURA PERFORMANCE EXHAUST SYSTEM**

**SUZUKI**  
**2000-2012**  
**DR-Z 400S/M**

<b>2166502</b>	STAINLESS STEEL FULL SYSTEM WITH CF SLEEVE
<b>2166503</b>	STAINLESS STEEL FULL SYSTEM WITH ALUMINUM SLEEVE



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



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:

Metric socket set  
3/8" ratchet and extension  
Allen bit set for torque wrench  
Torque wrench

## Installation Steps:

1. Remove right rear number plate (see Fig. 1).
2. Remove stock exhaust system and stock exhaust port gasket. Note: Remove stock rubber grommet from muffler mount.
3. Install new exhaust port gasket (Suzuki part number 14181-29E02).
4. Install Yoshimura header using stock header nuts. Do not tighten at this point.
5. Install muffler and tail-pipe onto header.
6. Bolt tail-pipe to stock chassis mount using supplied bolt (see Fig. 2). Do not tighten bolt at this point.
7. Mount muffler to stock muffler mount location using a mix of stock and supplied bolt, washers, and aluminum spacer (see Fig. 3 and Parts Diagram for orientation).



Fig. 1

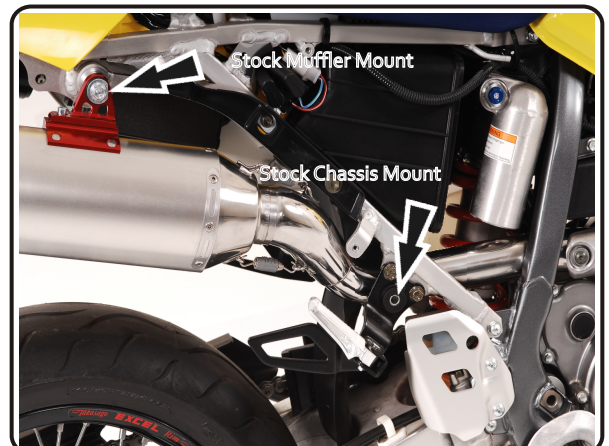


Fig. 2

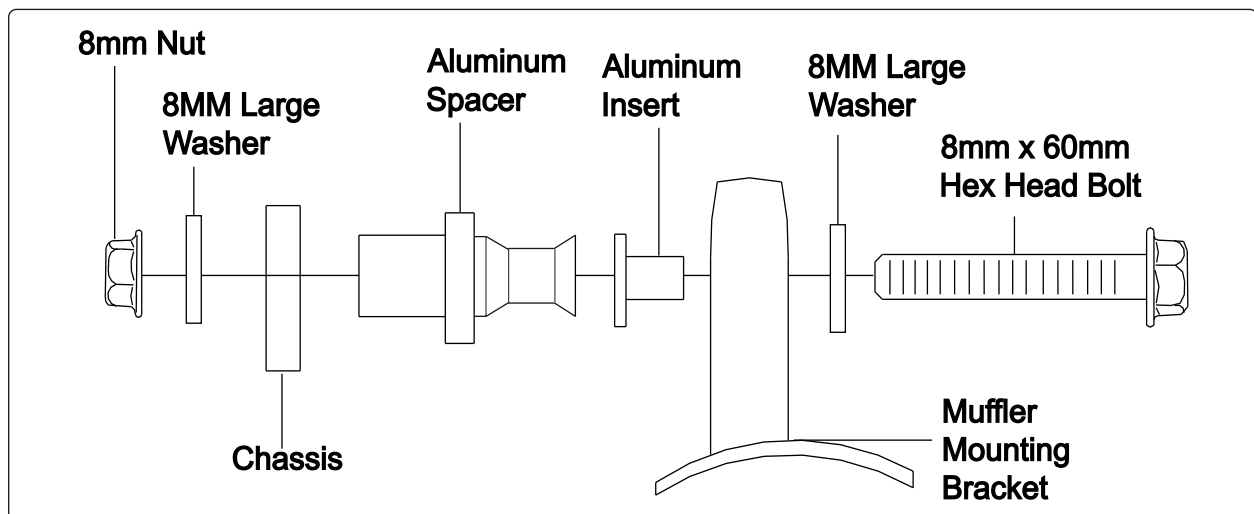


Fig. 3

8. Torque chassis mount bolt and muffler mount bolt to 2.5 kg-m (18 lb-ft).
9. Torque header nuts to 2.0 kg-m (14.6 lb-ft).
10. Install Yoshimura heat shield onto Yoshimura tailpipe using supplied heatshield bolts.
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 rear suspension (i.e. rear brake, frame, shock spring, etc). If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call Yoshimura technical department at (800)634-9166 / in CA (909) 628-4722 .
13. Reinstall number plate.
14. Check for proper clearance between new exhaust system and number plate.

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

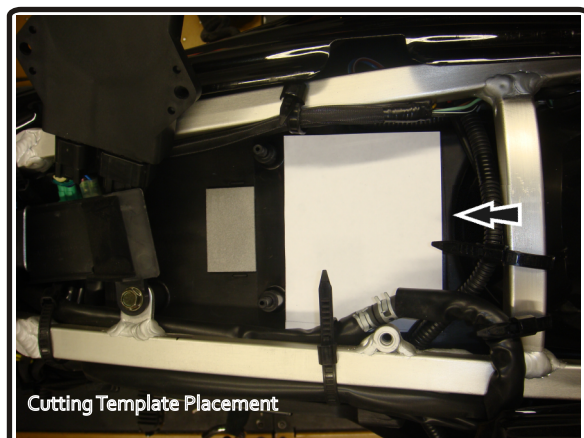


Fig. 3

## WARNING

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### Closed Course Competition Jetting Recommendations:

Mikuni Main Jet# 145.0

Mikuni Pilot Jet# 25

Install supplied shim onto needle. See Fig 4

### Closed Course Competition Air Box Modification:

1. Remove seat.
2. Cut supplied 3.625" x 4.5" template.
3. Place template onto airbox as shown in Fig. 3. Mark outline of template with a permanent marker.
4. Remove airbox and filter.
5. Cut airbox along the drawn outline.

**Note:** Be sure to clean airbox of any debris before reinstalling onto motorcycle.

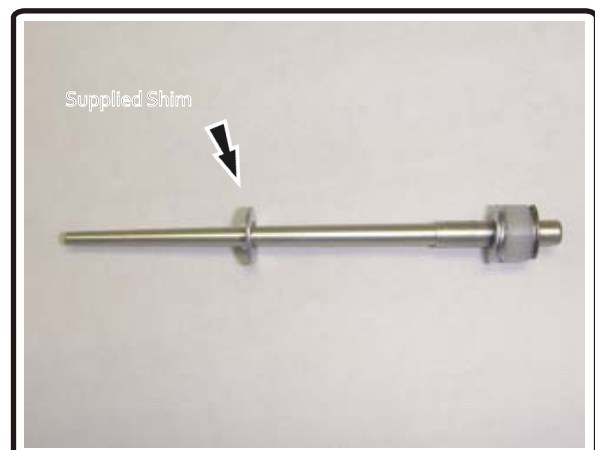
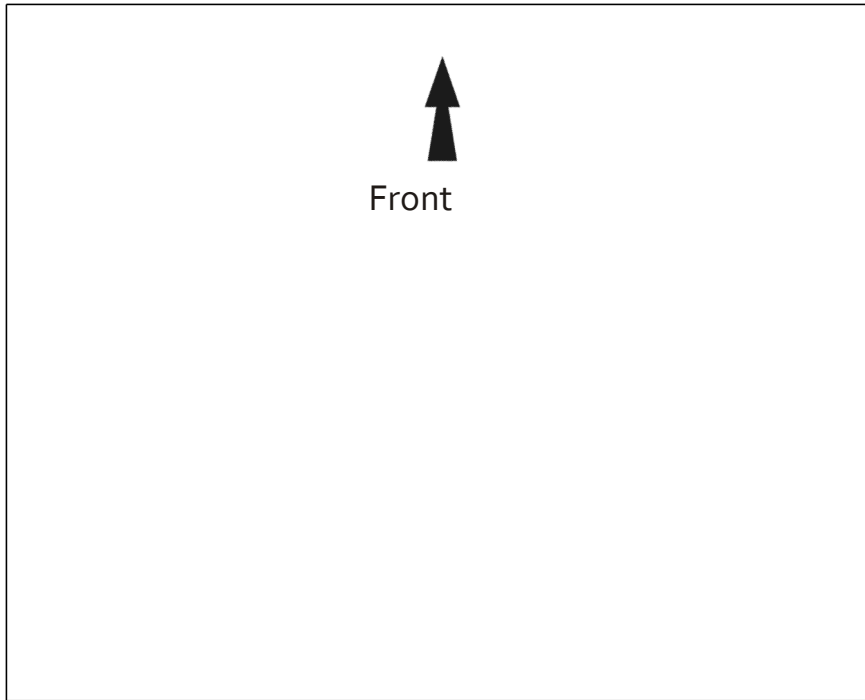


Fig. 4



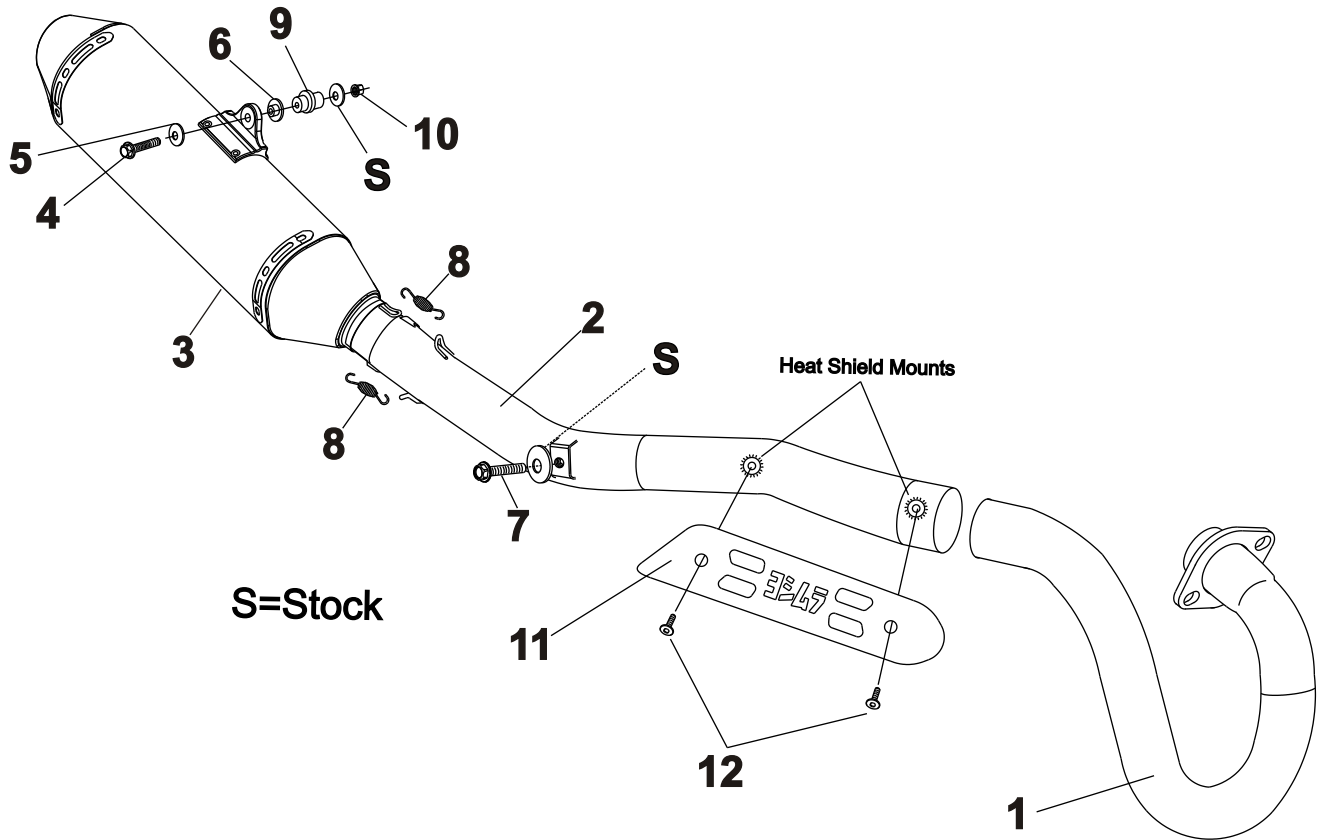
**DR-Z 400 S/M AIRBOX CUTTING TEMPLATE**





**2166502, 2166503**

**Parts Diagram**



S=Stock

NO.	DESCRIPTION	QTY	PART #
1	Yoshimura Header Stainless Steel	1	2166-101
2	Yoshimura Tailpipe Stainless Steel	1	2166-144
3	Muffler Assembly RS2 Muffler with Aluminum Sleeve RS2 Muffler with Carbon Fiber Sleeve	1	2166503-RMA 2166502-RMA
4	8mm x 60mm Socket Head Bolt	1	M8X60H
5	Large Washer	1	8MMWASHERL
6	Aluminum Insert	1	ALS-003
7	8mm x 30mm Flange Hex Bolt	1	M8X30H
8	Medium Exhaust Springs	2	RACE-SPS-1
9	Muffler Mount Spacer	1	2166-SPCR
10	8mm Flange Nut	1	8MMNUT
11	Yoshimura Heatshield	1	2165-HS
12	6x8mm Button Head Flange Screw	2	RC116HSB
**	Offroad Endcap Plug	1	347PLUG
**	Spring Puller Tool	1	ST-200
**	Rubber Grommet	1	Z1022
**	3mm Flat Washer	1	3MMWASHER
**	Yoshimura Vinyl Sticker	1	17029



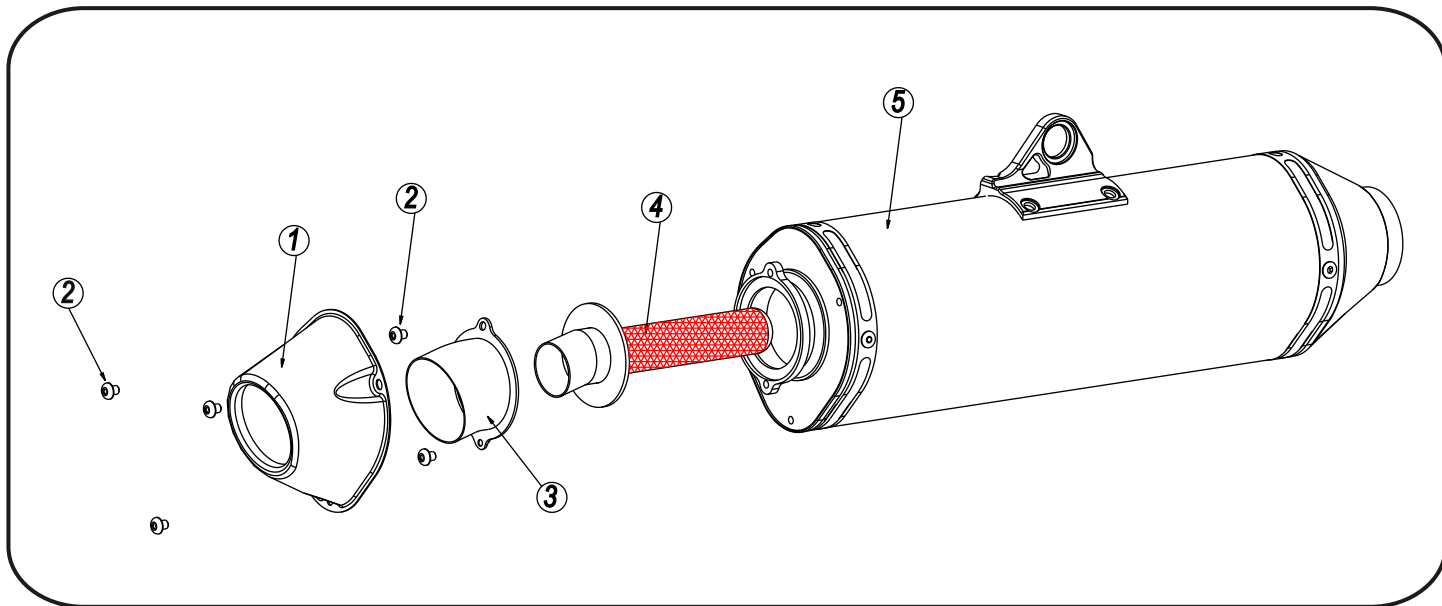
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## Spark Arrester Cleaning Information



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	Cone Cap	1
2	5mm x 10mm Button Head Bolt	5
3	Exhaust Tip	1
4	Spark Arrester	1
5	Muffler Assembly	1

### Tools Needed:

3mm Allen Key  
Wire Brush  
Pair of Gloves  
Safety Glasses

- Using a wire brush, remove carbon deposits from spark arrester screen. Inspect the screen for excessive wear or damage. If spark arrester is excessively worn or damaged, the spark arrester must be replaced. Cleaning and inspection should be performed after every 60 hours of use.

**CAUTION:** *Gloves and Safety Glasses should be worn while cleaning spark arrester.*

### Cleaning Steps:

- Using a 3mm Allen key, remove the three 5mm x 10mm button head bolts that secure the cone cap to the muffler (see Parts Diagram for location).
- Remove the two 5mm x 10mm button head bolts that secure the spark arrester to the muffler. Remove the spark arrester from the muffler.

- Re-install spark arrester and cone cap. Torque the 5mm x 10mm bolts to 1.0 kg-m (7.3 lb-ft).

**NOTE:** *It is recommended that a low strength "Loc-tite" is used on the 5mm x 10mm bolts.*