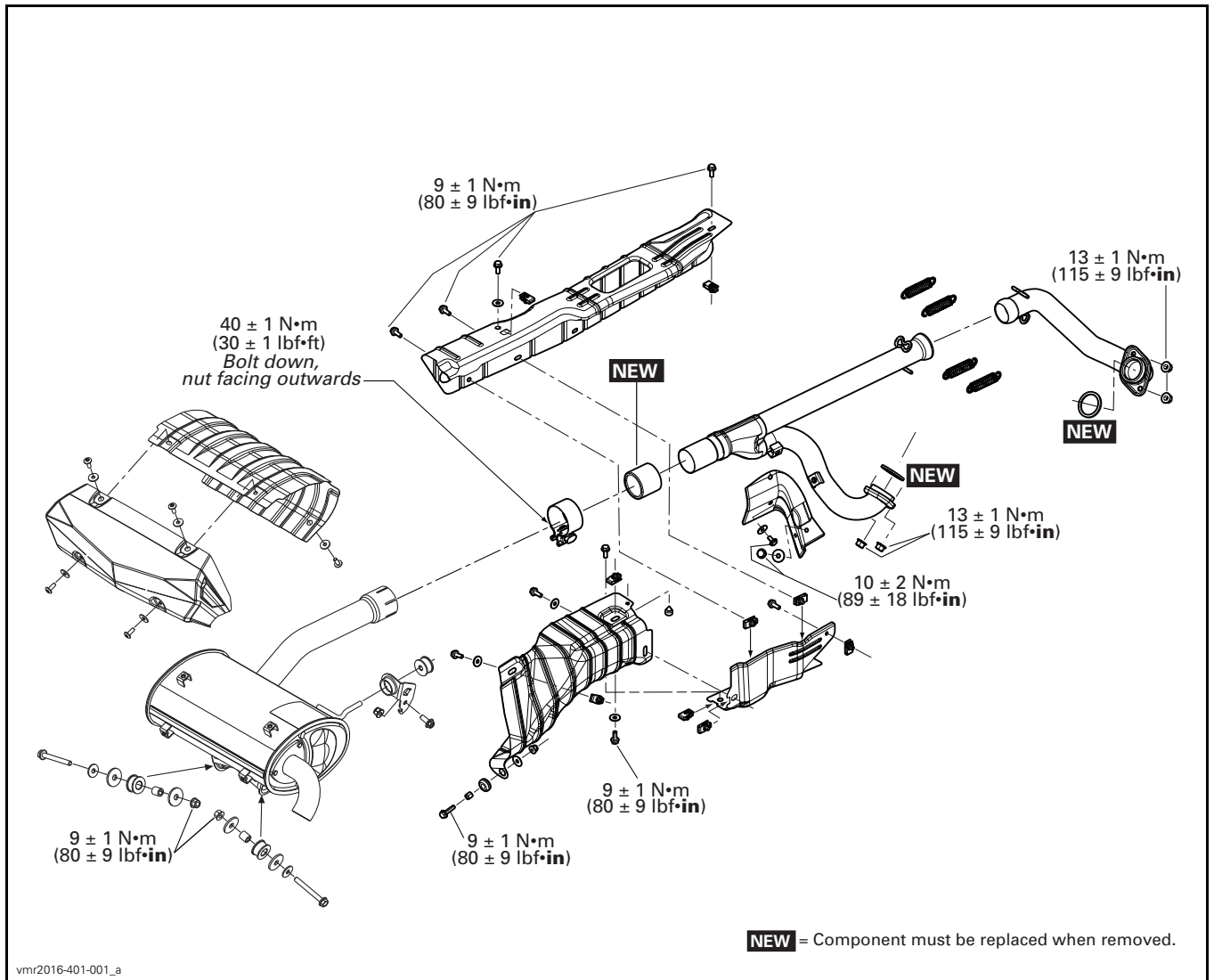


EXHAUST SYSTEM



GENERAL

⚠ WARNING

Never touch exhaust system components immediately after the engine has run.

PROCEDURES

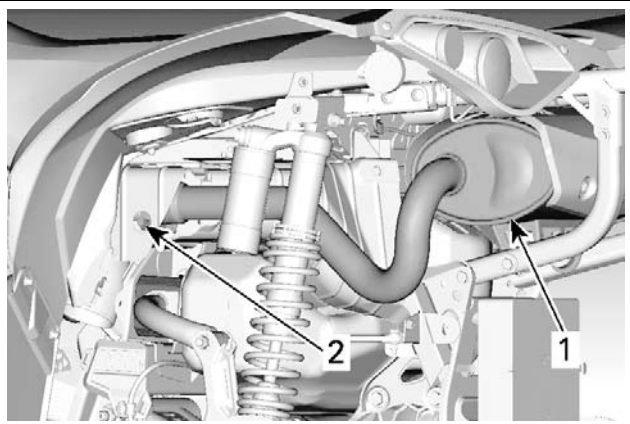
SPARK ARRESTER

For spark arrester servicing, refer to *PERIODIC MAINTENANCE PROCEDURES* subsection.

MUFFLER

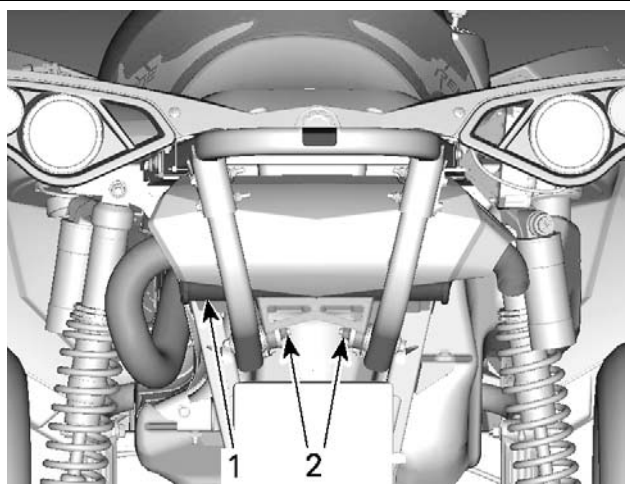
Muffler Removal

- 1. Loosen exhaust pipe clamp.



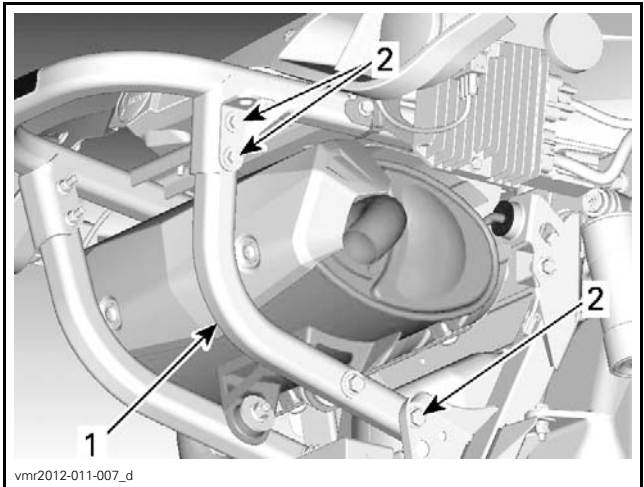
smr2012-011-005_a
1. Muffler
2. Loosen clamp

- 2. Remove muffler retaining bolts.



smr2012-011-004_a
REAR VIEW
1. Muffler
2. Remove bolts

- 3. Refer to *BODY* and remove both rear bumper braces.



vmr2012-011-007_d
1. Brace
2. Remove fasteners

- 4. Remove muffler.

Muffler Inspection

Check muffler and cover for cracks or other damages. Replace if necessary.

Check if the rubber support is brittle, hard or otherwise damaged. Replace if needed.

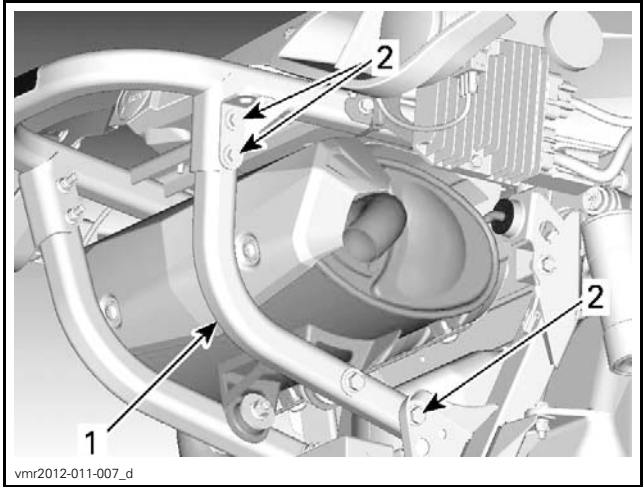
Muffler Installation

For the installation, reverse the removal procedure. However, pay attention to the following.

Install new exhaust gasket.

Refer to *BODY* and install both rear bumper braces.

NOTE: Loosely install all fasteners before tightening.



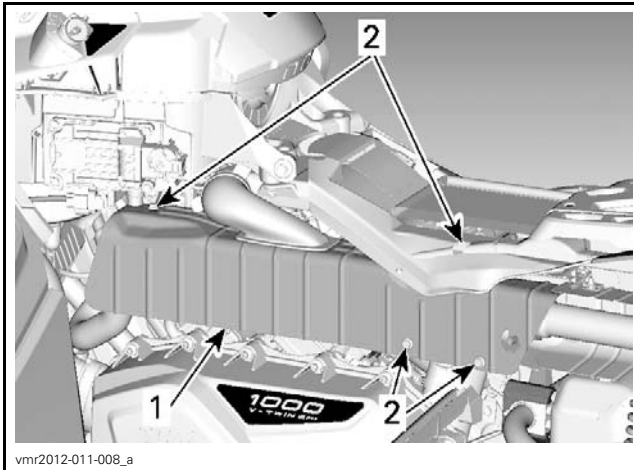
vmr2012-011-007_d
1. Brace
2. Secure fasteners

HEAT SHIELD

Heat Shield Removal

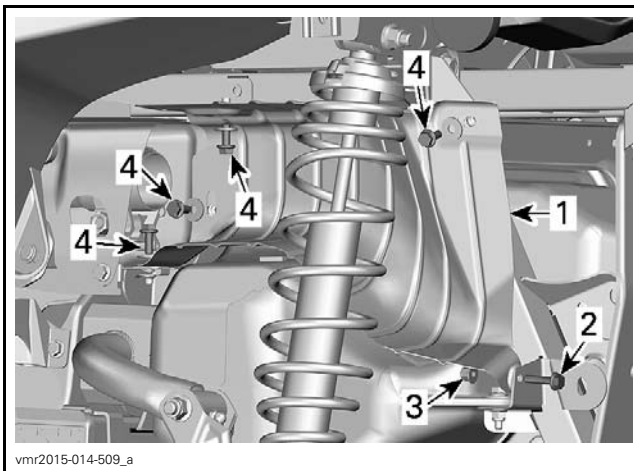
1. Refer to *BODY* and remove LH panel.
2. Remove heat shield retaining bolts.

NOTICE Do not use impact tool to remove or install heat shield bolts.

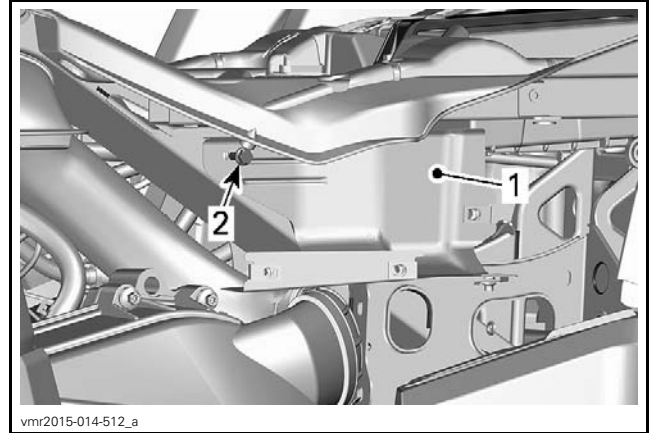


1. Heat shield
2. Heat shield bolts

3. Remove muffler for rear and inner heat shield removal.



1. Rear heat shield
2. M6 x 25 bolt
3. M6 elastic nut
4. M6 x 16 bolts with washers



1. Inner heat shield
2. M6 x 16 bolts

Heat Shield Installation

For the installation, reverse the removal procedure. However, pay attention to the following.

Refer to exploded view for torque specifications, and following illustration for rear heat shield tightening sequence.

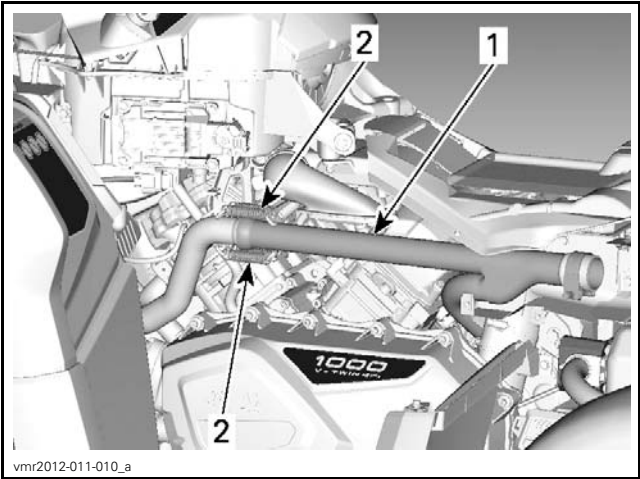


REAR HEAT SHIELD TIGHTENING SEQUENCE

Y-EXHAUST PIPE

Y-Exhaust Pipe Removal

1. Remove *MUFFLER*. See procedure in this subsection.
2. Remove *HEAT SHIELD*. See procedure in this subsection.
3. Remove the following parts:
 - Springs from head pipe
 - Y-exhaust pipe retaining nuts on rear cylinder.
 - Y-exhaust pipe from vehicle.



1. Y-exhaust pipe
2. Springs

Y-Exhaust Pipe Inspection

Check Y-exhaust pipe for cracks, bending or other damages. Replace if needed.

Y-Exhaust Pipe Installation

The installation is the reverse of the removal procedure.

Install NEW exhaust gaskets and exhaust pipe retaining nuts.

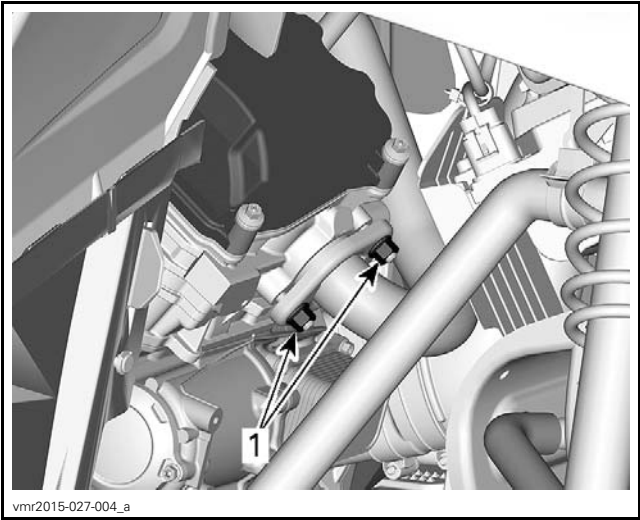
Properly position exhaust pipe before tightening.

TIGHTENING TORQUE	
Head pipe nuts (rear cylinder)	13 N•m ± 1 N•m (115 lbf•in ± 9 lbf•in)

HEAD PIPE (FRONT CYLINDER)

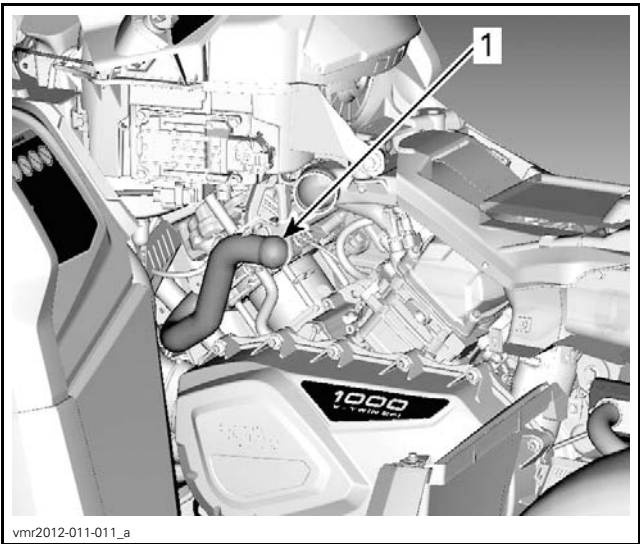
Front Head Pipe Removal

- 1. Remove Y-EXHAUST PIPE See procedure in this subsection.
- 2. From RH side of vehicle, remove head pipe retaining nuts.



1. Head pipe retaining nuts

- 3. Remove front head pipe from vehicle.



1. Head pipe

NOTE: The space to remove the front head pipe is limited. Remove it without force.

Front Head Pipe Inspection

Check head pipe for cracks, bending or other damages. Replace if needed.

Front Head Pipe Installation

The installation is the reverse of the removal procedure. However, pay attention to the following.

Install NEW exhaust gaskets.

Refer to EXHAUST SYSTEM TIGHTENING SEQUENCE.

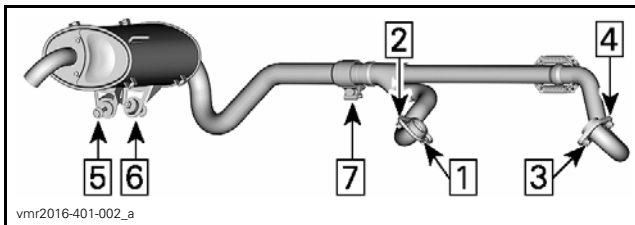
TIGHTENING TORQUE	
Head pipe nuts	13 N•m ± 1 N•m (115 lbf•in ± 9 lbf•in)

Exhaust System Tightening System Sequence

Install all nuts and bolts loosely.

Install springs.

Tighten all fasteners as per following tightening sequence. Refer to exploded view for torque specifications.



EXHAUST SYSTEM TIGHTENING SEQUENCE