

RODEO

ENGINE

ENGINE EXHAUST (Y22SE 2.2L)

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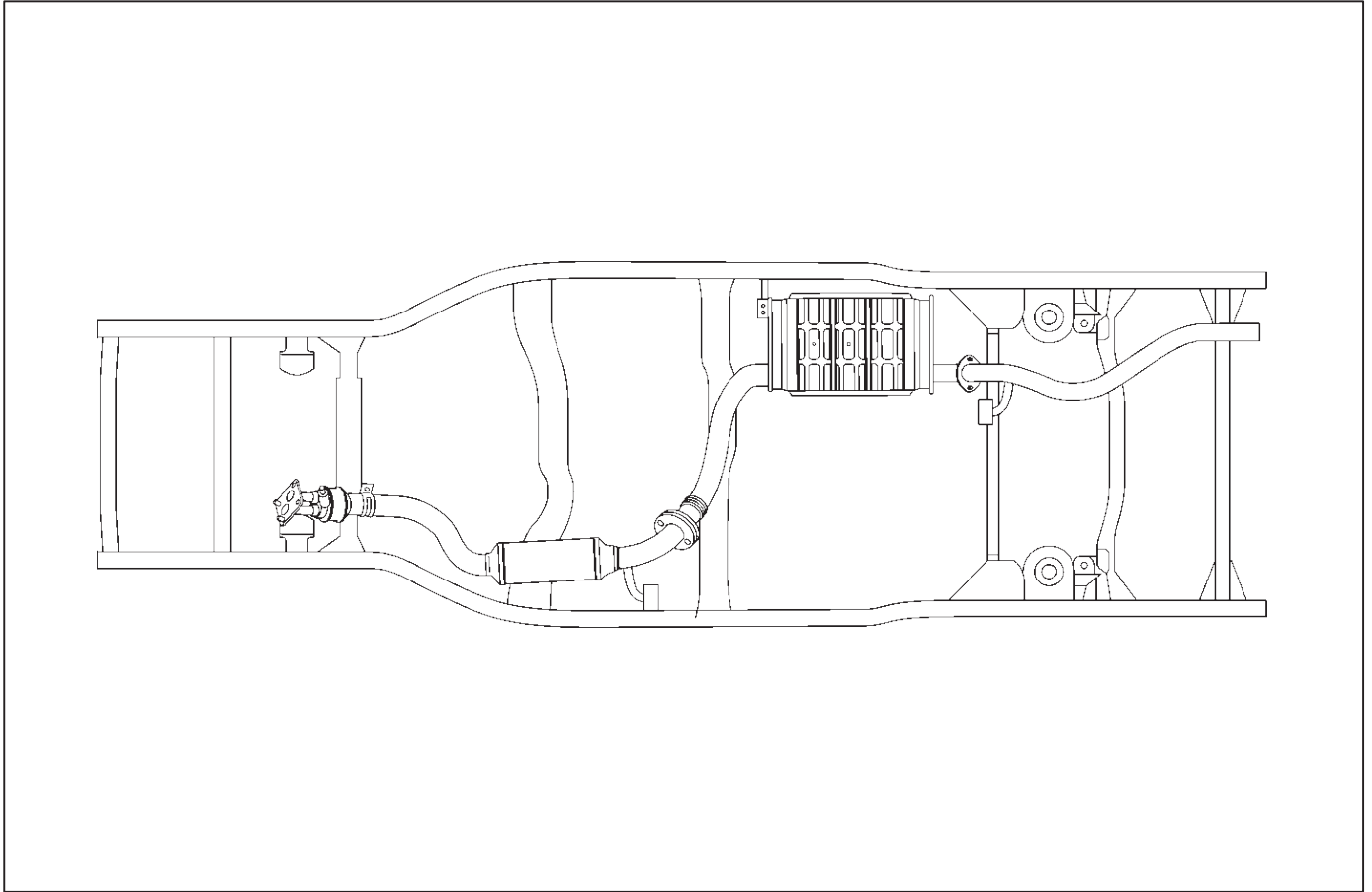
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Service Precaution

WARNING: THIS VEHICLE HAS A SUPPLEMENTAL RESTRAINT SYSTEM (SRS). REFER TO THE SRS COMPONENT AND WIRING LOCATION VIEW IN ORDER TO DETERMINE WHETHER YOU ARE PERFORMING SERVICE ON OR NEAR THE SRS COMPONENTS OR THE SRS WIRING. WHEN YOU ARE PERFORMING SERVICE ON OR NEAR THE SRS COMPONENTS OR THE SRS WIRING, REFER TO THE SRS SERVICE INFORMATION. FAILURE TO FOLLOW WARNINGS COULD RESULT IN POSSIBLE AIR BAG DEPLOYMENT, PERSONAL INJURY, OR OTHERWISE UNNEEDED SRS SYSTEM REPAIRS.

CAUTION: Always use the correct fastener in the proper location. When you replace a fastener, use ONLY the exact part number for that application. ISUZU will call out those fasteners that require a replacement after removal. ISUZU will also call out the fasteners that require thread lockers or thread sealant. UNLESS OTHERWISE SPECIFIED, do not use supplemental coatings (Paints, greases, or other corrosion inhibitors) on threaded fasteners or fastener joint interfaces. Generally, such coatings adversely affect the fastener torque and the joint clamping force, and may damage the fastener. When you install fasteners, use the correct tightening sequence and specifications. Following these instructions can help you avoid damage to parts and systems.

General Description



150R100010

When inspecting or replacing exhaust system components, make sure there is adequate clearance from all points on the underbody to prevent overheating the floor pan and possible damage to the passenger compartment insulation and trim materials.

Check complete exhaust system and nearby body areas and rear compartment lid for broken, damaged, missing or mispositioned parts, open seams, holes, loose connections or other deterioration which could permit exhaust fumes to seep into the rear compartment or passenger compartment. Dust or water in the rear compartment may be an indication of a problem in one of these areas. Any faulty areas should be corrected immediately.

Hangers

Various types of hangers are used to support exhaust system(s). These include conventional rubber straps, rubber rings, and rubber blocks.

The installation of exhaust system supports is very important, as improperly installed supports can cause annoying vibrations which can be difficult to diagnose.

Three Way Catalytic Converter

The three way catalytic converter is an emission control device added to the exhaust system to reduce pollutants from the exhaust gas stream.

CAUTION: The catalytic converter requires the use of unleaded fuel only.

Periodic maintenance of the exhaust system is not required. If the vehicle is raised for other service, it is advisable to check the condition of the complete exhaust system.

A dual bed monolith catalytic converter is used in combination with three way catalytic converter.

Catalytic Types:

Three way (Reduction/Oxidation) catalyst

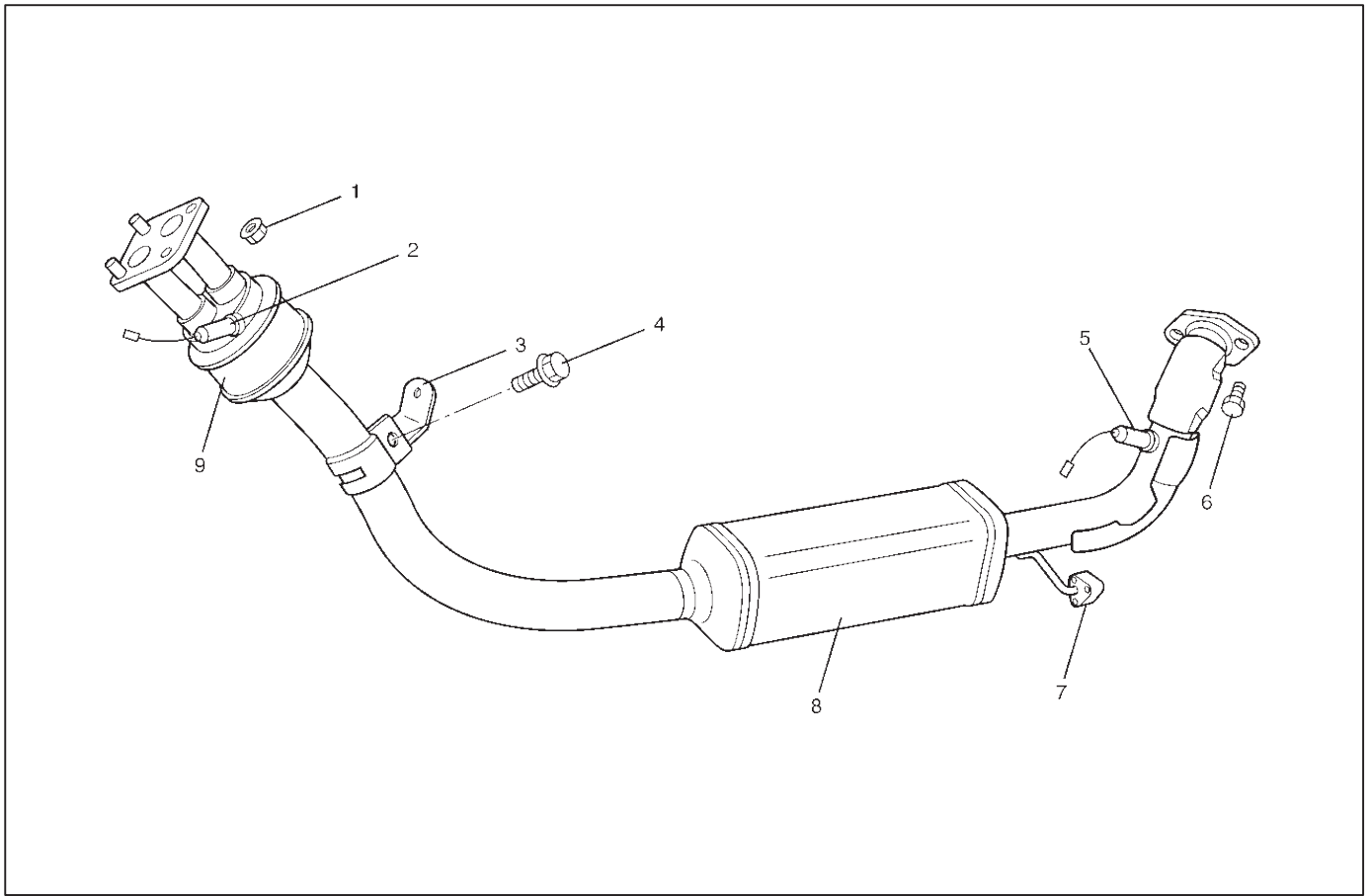
The catalyst coating on the three way (reduction) converter contains platinum and rhodium which lowers the levels of nitrous oxide (NOx) as well as hydrocarbons (HC) and carbon monoxide (Co).

Gasket

The gasket must be replaced whenever a new exhaust pipe, muffler or catalytic converter is installed.

Front Exhaust Pipe

Front Exhaust Pipe and Associated Parts



150R100001

Legend

- | | |
|---|--|
| (1) Front Exhaust Pipe Fixing Nuts | (5) O2 Sensor |
| (2) O2 Sensor | (6) Front Exhaust Pipe Fixing Bolt |
| (3) Front Exhaust Pipe Mounting Bracket | (7) Front Exhaust Pipe Mounting Rubber |
| (4) Front Exhaust Pipe Mounting Bracket Fixing Bolt | (8) Three Way Catalytic Converter |
| | (9) Pre Catalytic Converter |

Removal

1. Disconnect battery ground cable.
2. Raise the vehicle and support with suitable safety stands.
3. Disconnect O2 sensor harness connector and remove O2 sensors (2),(5).
4. Remove front exhaust pipe mounting bracket fixing bolt (4) and bracket.
5. Remove front exhaust pipe fixing bolts (6).
6. Remove front exhaust pipe fixing four stud nuts (1) from exhaust manifold.
7. Remove front exhaust pipe assembly.

Installation

1. Install front exhaust pipe assembly and tighten four stud nuts (1) and two bolts (6) to the specified torque:

Torque:

Stud Nuts : 28 N·m (21 lb ft)

Bolts (6) : 43 N·m (32 lb ft)

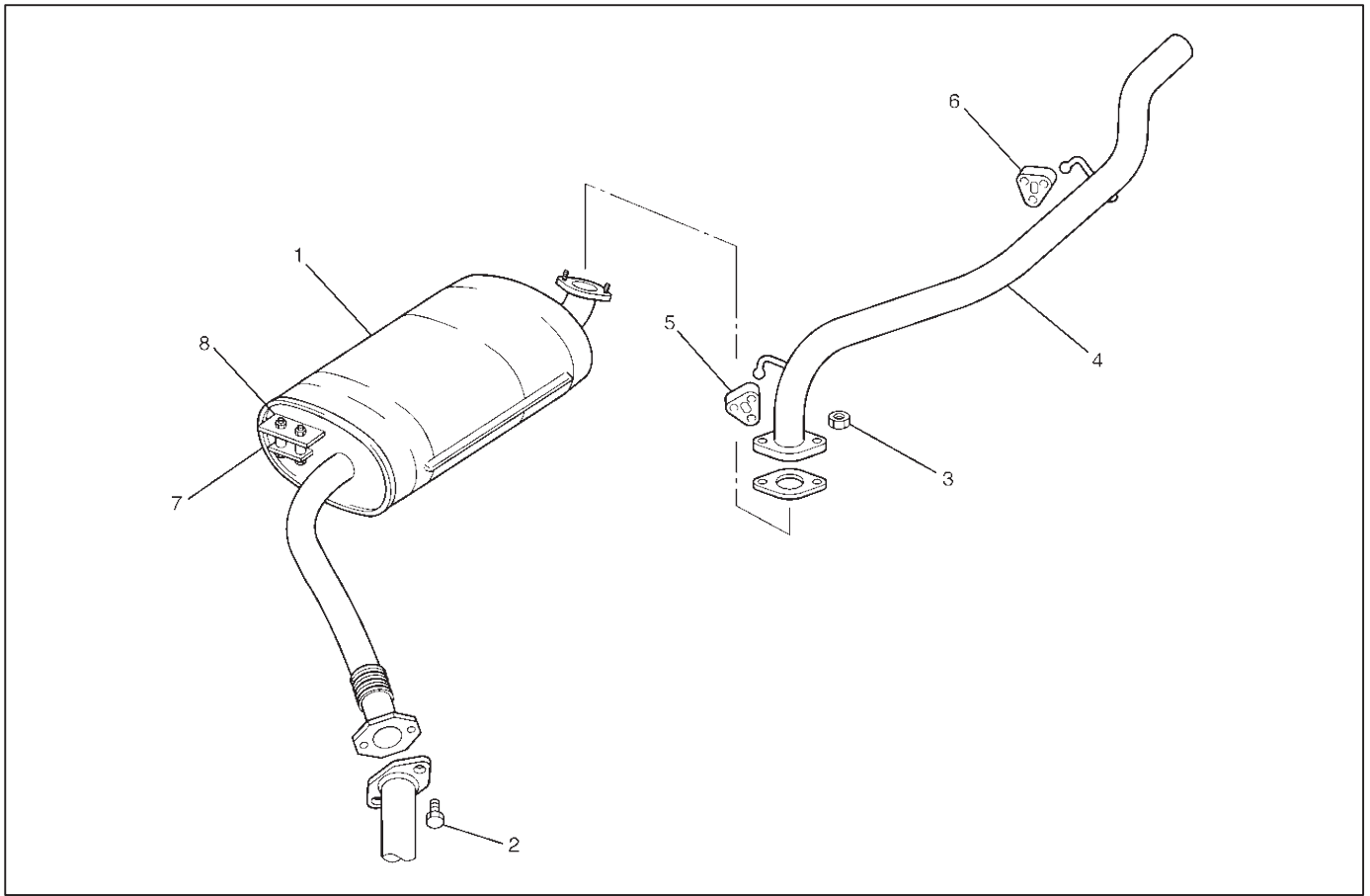
Bolts (4) : 23 N·m (17 lb ft)

2. Tighten O2 sensor and reconnect O2 sensor harness connector.

Torque : 55 N·m (41 lb ft)

Exhaust Silencer

Exhaust Silencer and Associated Parts



150R100005

Legend

- | | |
|------------------------------------|----------------------------------|
| (1) Exhaust Silencer | (5) Mounting Rubber |
| (2) Front Exhaust Pipe Fixing Bolt | (6) Mounting Rubber |
| (3) Exhaust Silencer Fixing Nuts | (7) Mounting Rubber |
| (4) Exhaust Rear Pipe | (8) Exhaust Silencer Fixing Nuts |

Removal

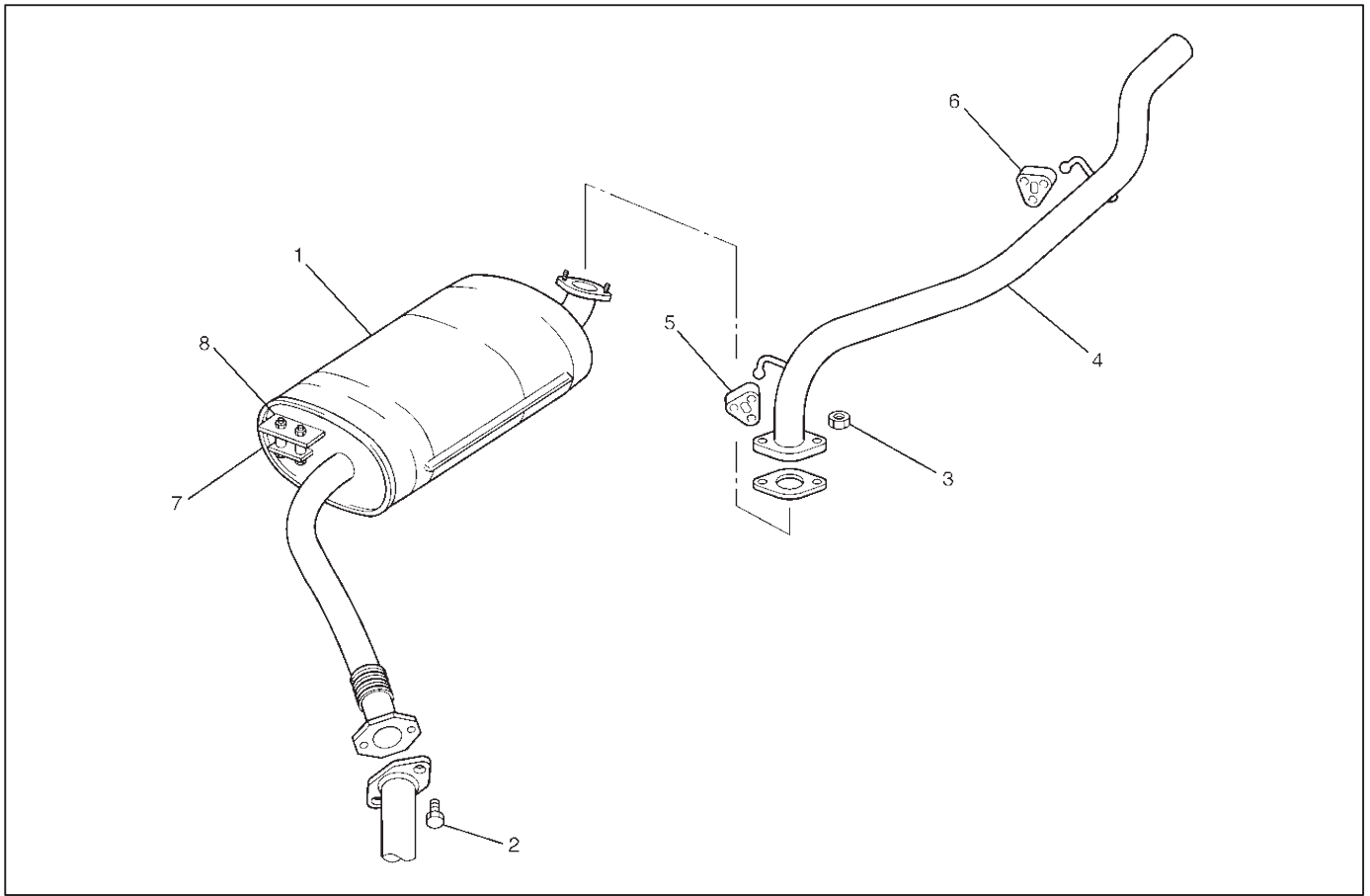
1. Disconnect battery ground cable.
2. Raise the vehicle and support with suitable safety stands.
3. Remove exhaust silencer fixing nuts (3) then disconnect rear exhaust pipe from exhaust silencer.
4. Remove front exhaust pipe fixing bolts (2) then disconnect exhaust silencer from front exhaust pipe.
5. Remove exhaust silencer mounting nuts (8) from chassis side then remove exhaust silencer (1).

Installation

1. Install the exhaust silencer (1) chassis side and tighten two nuts (8) to the specified torque.
Nuts: 15 N·m (11 lb ft)
2. Tighten two Bolts (2) on front exhaust pipe to specified torque.
Bolts: 43 N·m (32 lb ft)
3. Install the rear exhaust pipe and tighten two nuts (3) on exhaust silencer to specified torque.
Nuts: 43 N·m (32 lb ft)

Rear Exhaust pipe

Rear Exhaust pipe and Associated Parts



150R100005

Legend

- | | |
|------------------------------------|----------------------------------|
| (1) Exhaust Silencer | (5) Mounting Rubber |
| (2) Front Exhaust Pipe Fixing Bolt | (6) Mounting Rubber |
| (3) Exhaust Silencer Fixing Nuts | (7) Mounting Rubber |
| (4) Exhaust Rear Pipe | (8) Exhaust Silencer Fixing Nuts |

Removal

1. Disconnect battery ground cable.
2. Raise the vehicle and support with suitable safety stands.
3. Remove exhaust silencer fixing nuts (3), then disconnect exhaust rear pipe from exhaust silencer.
4. Remove mounting rubber (5), (6).
5. Remove exhaust rear pipe (4).

Installation

1. Install the mounting rubber (5), (6).
2. Install the exhaust rear pipe (4) and tighten two nuts (3) on exhaust silencer to specified torque.

Nuts: 43 N·m (32 lb ft)

Main Data and Specifications

Torque Specifications

