

# SECTION 04: EXHAUST SYSTEM

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## 1. MAINTENANCE

The exhaust system should be inspected periodically for restrictions and leaks. The exhaust system is shown in figure 1. Restrictions such as kinked or crimped pipes result in excessive back pressure which can lead to increased fuel consumption, power loss, and possible damage to engine combustion chamber components. Exhaust leaks are commonly the result of loose clamp bolts, corroded pipes, or a punctured muffler. In addition to excessive noise, a leaking exhaust system could allow toxic gases to enter the vehicle. Inspect the exhaust system as follows:

- At vehicle inspection intervals;
- Whenever a change is noticed in the sound of the exhaust system; and
- Whenever the exhaust system is damaged.

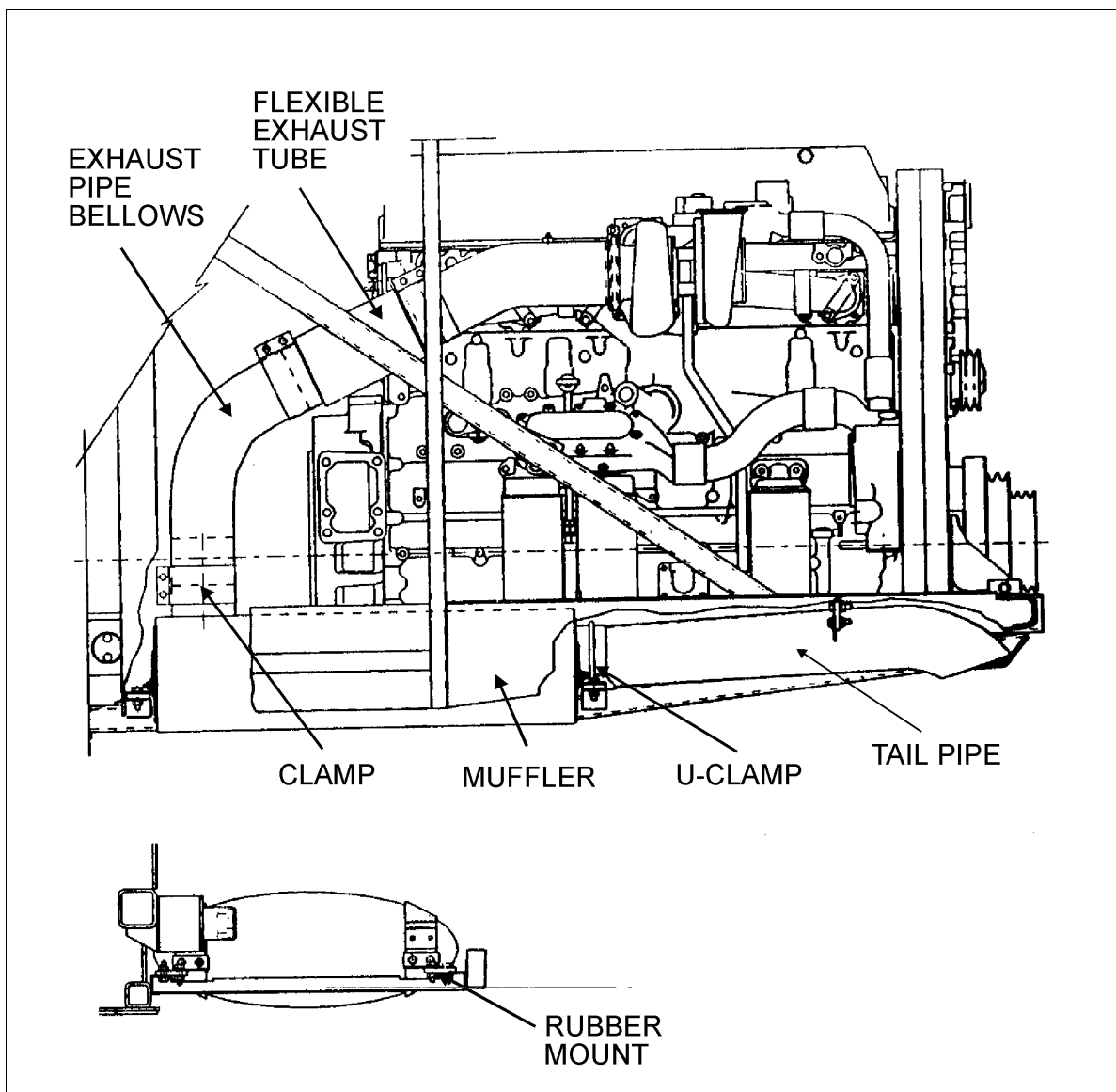


FIGURE 1: EXHAUST SYSTEM

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Replace damaged or corroded exhaust system components without delay.

When operating the engine in a service garage or in a closed area, the exhaust must be vented to the outside. Place the shop vent hose over the exhaust outlet pipe.

**Warning:** Avoid breathing exhaust gases. Exhaust contains carbon monoxide which is odorless and colorless. Carbon monoxide is a dangerous gas which can cause unconsciousness and can be lethal. If at any time you suspect that exhaust fumes are entering the vehicle, locate and correct the cause(s) as soon as possible.

## 2. MUFFLER REMOVAL/INSTALLATION

**Warning:** Make sure the that muffler and components are cold before removing or installing components.

1. Remove bolts and clamps securing exhaust pipe bellows to the muffler.
2. Support the muffler from under the vehicle.
3. Remove U-clamp which retains the tail pipe to the muffler.
4. Remove bolt holding the tail pipe to the frame bracket.
5. Remove the tail pipe.
6. Remove the fasteners holding the four rubber mounts to the frame brackets. Remove the fasteners securing the rubber mounts to the muffler brackets.

**Note:** The front retaining bolts are accessible from the L.H. side tag axle wheel housing.

7. Remove rubber mounts. Lower muffler from under vehicle.

8. Remove parts which are attached to the muffler such as brackets and collar. Inspect and replace pieces if necessary. Reinstall parts on the new muffler.
9. Installation is the reverse of removal.

## 3. FLEXIBLE TUBE INSTALLATION

The flexible exhaust tube contains an inside rigid pipe (Fig. 1). To allow appropriate flexibility for assembly, make sure that the rigid pipe is concentric to the flexible part. To maintain the pipe centered at the time of installation, cardboard spacers must be inserted at four places at equal distance around it (Fig. 2). These spacers may be left in place and will deteriorate over time.

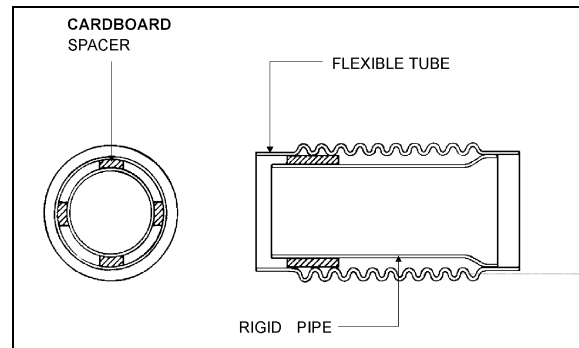


Figure 2: Flexible Tube Installation

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