

## SCHOOL BUS EXHAUST SYSTEM

ITEM AND METHOD OF INSPECTION DESCRIPTION	POINT VALUE	AND REQUIREMENT
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(#) DESIGNATES POINTS TO BE DEDUCTED

II. Exhaust: Visual and audible inspection with engine running	(25)	1. The exhaust pipe, muffler, and tail pipe must be outside the bus body and attached to the chassis with adequate hangers of sufficient strength to maintain the position of the exhaust system under all normal operating conditions.
1. Inadequate Pipe		
2. Construction	(25)	2. The tailpipe must be constructed of corrosion-resistant material tubing equal to a minimum 16-gauge steel and extend to but not more than 2 inch beyond the rear bumper. No exhaust pipe may exit beneath an emergency exit, or on Type C or Type D bus under the fuel fill location or emergency door exit.
3. Tailpipe Size	(25)	3. The size of the tailpipe must not be reduced after it leaves the muffler.
4. Exhaust Pipes	(5)	4. a. The exhaust system on a gas or propane or CNG powered chassis must be properly insulated from fuel tank connections by a securely attached metal shield at any point where the exhaust system is within twelve (12) inches of the tank or tank connections.
a. Insulation		

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### II. Exhaust (Continued)

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| b. Type A 1& B 1 school buses  | (5) | b. May have its exiting point located behind the rear wheels according to manufacturer's standard.  |
| c. Option: Type B II over 10,000 GVWR and Type C and D school buses. Left side exhaust systems must conform to the following requirements.   | (5) | c. The exhaust system pipe must be of non-flexible, minimum of 16 gauge steel or its equivalent. Diesel buses may use flex pipe on crossover pipes. |
| 1) Length  |     | 1) The exhaust system may be Flush or extend to a maximum of two (2) inches beyond the body skirt.  |
| 2) Pipe Edge   |     | 2) The end of the exhaust pipe must be cut smooth.  |
| d. Non-rigid connections between exhaust manifold and exhaust pipes which absorb vibrations and movement between the two members to prevent cracking are permissible if functioning properly. This is commonly referred to as flexible steel tubing. |     | MS 169.4502   |

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II. Exhaust (Continued):	
5. Leaking System	(5) 5. Motor Vehicle to be equipped with such parts and equipment so arranged and kept in state of repair as to prevent carbon monoxide or exhaust from entering the interior of the bus.
a. Parts to be inspected	a. Exhaust manifold, exhaust pipes, resonators, mufflers, catalytic converters, tail pipes, and gaskets between parts.
6. Muffler	6. Defective Muffler
a. Corrosion-resistant	(5) a. Must be constructed of corrosion resistant material.
b. Excessive Noise	(5) b. Every motor vehicle shall at all times be equipped with a muffler in good working order which blends the exhaust noise into the overall vehicle noise and is in constant operation to prevent excessive or unusual noise, and no person shall use a muffler cut-out, by-pass, or similar device upon a motor vehicle on a street or highway. The exhaust system shall not emit or produce a sharp popping or cracking sound.
	M.S. 169.69. M.S. 169.4501