

DIESEL EXHAUST SYSTEM MODIFICATIONS, 2007 POST EMMISIONS, 2500/3500 CK PICKUP

ISSUE DATE: December 11, 2007 TSB NUMBER:

ER: TSB174

HAZARD / URGENCY RATING

	DANGER - Physical harm is possible if TSB is not observed or followed
x	WARNING - Equipment damage is possible if TSB is not observed or followed
x	CAUTION - Essential issue affecting operation, service, parts or installation
	INFORMATIONAL - Advisory which may be of interest

APPLICABLE EQUIPMENT:

G&B Specialties R-290 Railgear installed on 2007 GMC/Chevy post emmisions, *diesel* engines.

SUMMARY:

The attached guideline from GMC/Chevy, (C/K 207 (43/53) w/LMM-Exhaust Systems, #ANB44495.19), and (General Instructions, page 13&14), must be followed if any modifications are to be performed on the exhaust system.

IMPACT:

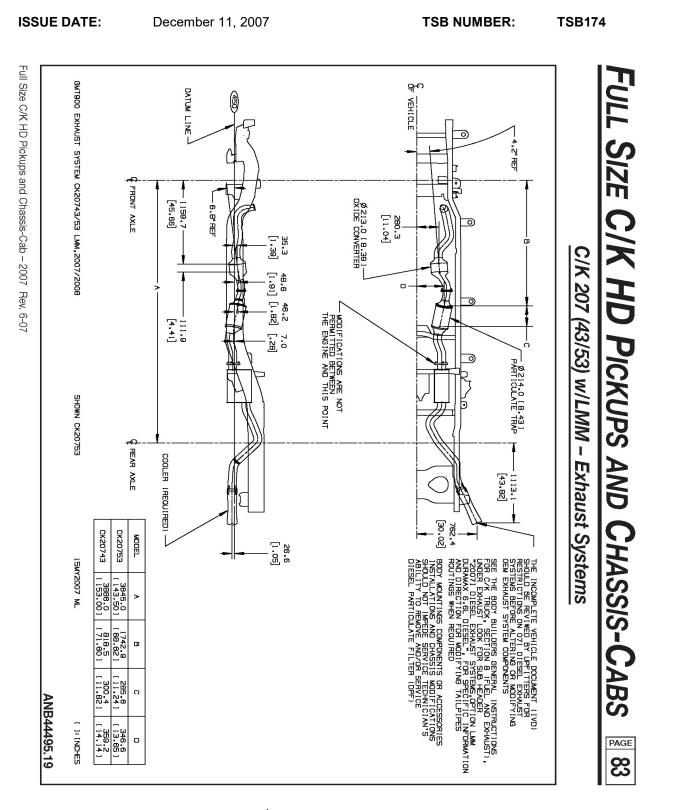
To insure that the Diesel Particulate Filter functions as it did before any modifications were performed to the exhaust system.

ACTION:

Any alterations to the exhaust system of GMC/Chevy, 2500/3500 CK Pickups, must follow the guidelines of (C/K 207 (43/53) w/LMM-Exhaust Systems, #ANB44495.19), and (General Instructions, page 13&14)



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ISSUE DATE:		December 11, 2007					т	SB NUMBER:	TSB174	
New Full Size C/K Pickups & Chassis-Cabs — General Instructions	Heat shields are mounted to the underbody and/or exhaust system components (catalytic converter propshaft hanger bearings are also provided in some vehicles.	Exhaust system materials are selected and tested to withstand the operating environment of the vehicle. system in any way. The tail pipes are made of 409 stainless steel.	The same can be said for the engine compartment. Obviously there will be additional heat radiated from the engine. How much is retained in the area will depend on how well this area is ventilated in your individual designs. Here again, temperature checks of interior areas surrounding the engine should be made to determine if your insulation is adequate. This is the same engineering practice we have followed on our complete vehicles incorporating these exhaust systems.	Each manufacturer must make temperature checks of critical areas of his vehicle and adjust his design acc to ensure safe operation of his body components.	Exhaust temperatures can exceed 1600°F under extreme operating conditions, with pipe surface temperatures slightly less than this. Extreme care must be used when placing body components in the proximity of the exhaust system so as not to exceed the rated temperature limits of the components. Due to variants in underbody configurations of the vehicles, we are not in a position to make recommendations on how to insulate or design components in the proximity of the exhaust system.	Check for leaks in exhaust systems and repair as required.	Tail pipe outlet location must be tested statically and with the vehicle in motion to ensure that exhaust gases do not penetrate side or rear windows or under body seams and holes. Auxiliary power plants should also be tested under the same conditions. Tail pipe exit ahead of rear wheels is not recommended.	Particular care should be taken to prevent the possibility of exhaust fumes and carbon monoxide exposure to vehicle occupants in units completed by body builders. Holes and openings through the floor and all other parts of the body must be permanently and adequately sealed by the body builder to avoid exhaust intrusion into any occupant area. If it is necessary to change the exhaust outlet location, the exhaust discharge must be unobstructed and directed away from occupant areas. Alterations. All vehicles >10,000 lbs. GVWR come under Federal noise and render the vehicle illegal in those areas with pass-by noise regulations. All vehicles >10,000 lbs. GVWR come under Federal noise regulations, vehicles ≤10,000 lbs. GVWR are regulated by various state and local regulations of the Environmental Protection Agency; see those regulations for rules, test procedure and noise levels permitted.	SENERAL INSTRUCTIONS - NEW FULL SIZE OTN F (Section 8 – continued from previous page) Exhaust System	CENTERNI MICTORIATIONIA - NETHI CITE CITE CIK DIAMITTA & CHARGE
(Section 8 – continued on next page)	nents (catalytic converter and muffler). Shields for the	environment of the vehicle. Do not modify the exhaust	additional heat radiated from the engine. How much is dual designs. Here again, temperature checks of interior adequate. This is the same engineering practice we have	e and adjust his design accordingly, or provide shielding	, with pipe surface temperatures slightly less than this. / of the exhaust system so as not to exceed the rated ations of the vehicles, we are not in a position to make the exhaust system.		o ensure that exhaust gases do not penetrate side or rear e tested under the same conditions. Tail pipe exit ahead	carbon monoxide exposure to vehicle occupants in units r parts of the body must be permanently and adequately it is necessary to change the exhaust outlet location, the reas. Alteration of the exhaust outlet or its position may noise regulations. All vehicles >10,000 lbs. GVWR come various state and local regulations of the Environmental rels permitted.	S" CABS	



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ISSUE DATE:	December 11, 2		TSB NUMBER:			TSB174	
New Full Size C/K Pickups & Chassis-Cabs — General Instructions — Rev. 5-07	Exhaust temperatures can exceed 1600° F under extreme operating conditions, with pipe surface temperatures slightly less than this. Extreme care must be used when placing body components in the proximity of the exhaust system so as not to exceed the rated temperature limits of the components. Due to variants in underbody configurations of the installed 2nd units , we are not in a position to make recommendations on how to insulate or design components in the proximity of the exhaust system. Each manufacturer must make temperature checks of critical areas of his 2nd unit and adjust his design accordingly, or provide shielding to ensure safe operation of his 2nd unit components. For those portions of the vehicle provided by General Motors, heat shields are mounted to the underbody and/or exhaust system components to manage the exhaust temperatures.	Care should be taken to prevent the possibility of exhaust gas / carbon monoxide exposure to vehicle occupants in 2nd units added by body builders. Holes and openings through the floor and all other parts of the body must be permanently and adequately sealed by the body builder to avoid exhaust gas intrusion into any occupant area. Exhaust discharge must be unobstructed and directed away from occupant areas. The tailpipe outlet location must be tested statically and with the vehicle in motion to ensure that exhaust gas does not penetrate side or rear windows or underbody seams and holes. Auxiliary power plants should also be tested under the same conditions. The tailpipe outlet must extend 2.0 to 2.5 in. outboard of the 2nd unit side panels. Positioning of the tailpipe exit ahead of the rear wheels is not recommended. If tailpipe modifications are necessary, check for leaks in the exhaust system and repair as required.	Alteration of the exhaust outlet or its position may increase exhaust noise and render the vehicle illegal in those areas with pass-by noise regulations. All vehicles >10,000 lbs GVWR come under Federal noise regulations of the Environmental Protection Agency; see those regulations for rules, test procedures, and permitted noise levels.	The exhaust gas temperature exiting the diesel particulate filter may be as high as 1200° F. The exhaust system is provided with a cooler on the tailpipe to reduce the exit gas temperature. If it is necessary to change the tailpipe outlet location, the exhaust cooler must be re-attached to the tailpipe after the final location is determined.	Exhaust system materials are selected and tested to withstand the operating environment of the vehicle. Tailpipes are made of 4 inch outer diameter 409 aluminized stainless steel w 1.8 mm wall thickness; modifications should have the same construction.	With the exception of the tailpipe, do not modify the exhaust system in any way.	GENERAL INSTRUCTIONS – NEW FULL SIZE C/K PICKUPS & CHASSIS-CABS (Section 8 – continued from previous page) (Section 8 – continued from previous page) 20071 Diesel Exhaust Systems, option LMM, Duramax 6.6L Diesel