



DEPARTMENT OF TRANSPORTATION

National Highway Traffic Safety Administration

Petition for Exemption from the Federal Motor Vehicle Motor Theft Prevention Standard; General Motors Corporation

AGENCY: National Highway Traffic Safety Administration, Department of Transportation (DOT).

ACTION: Grant of petition for exemption.

SUMMARY: This document grants in full General Motors Corporation's (GM) petition for an exemption of the Cadillac XT4 vehicle line in accordance with Exemption from the Theft Prevention Standard. This petition is granted because the agency has determined that the antitheft device to be placed on the line as standard equipment is likely to be as effective in reducing and deterring motor vehicle theft as compliance with the parts-marking requirements of the Federal Motor Vehicle Theft Prevention Standard (Theft Prevention Standard).

DATES: The exemption granted by this notice is effective beginning with the 2019 model year (MY).

FOR FURTHER INFORMATION CONTACT: Hisham Mohamed, Office of International Policy, Fuel Economy, and Consumer Standards, NHTSA, W43-437, 1200 New Jersey Avenue, S.E., Washington, D.C. 20590. Mr. Mohamed's phone number is (202) 366-0307. His fax number is (202) 493-2990.

SUPPLEMENTARY INFORMATION: In a petition dated May 29, 2017, GM requested an exemption from the parts-marking requirements of the Theft Prevention Standard for its Cadillac XT4 vehicle line beginning with MY 2019. The petition requested an exemption from parts-marking pursuant to 49 CFR 543, *Exemption from Vehicle Theft Prevention Standard*, based on the installation of an antitheft device as standard equipment for the entire vehicle line.

Under 49 CFR Part 543.5(a), a manufacturer may petition NHTSA to grant an exemption for one vehicle line per model year. In its petition, GM provided a detailed description and diagram of the identity, design, and location of the components of the antitheft device for the Cadillac XT4 vehicle line. GM will install the PASS-Key III+ antitheft device as standard equipment on its Cadillac XT4 vehicle line. The PASS-Key III+ is a passive, transponder-based, electronic immobilizer device. The major components of the antitheft device are a PASS-Key III+ controller module, engine control module (ECM), electronically-coded ignition key, radio frequency (RF) receiver, immobilizer exciter module, three low frequency antennas and a passive antenna module. GM stated that the device will provide protection against unauthorized use (i.e., starting and engine fueling), but will not provide any visible or audible indication of unauthorized vehicle entry (i.e., flashing lights or horn alarm). GM stated that the PASS-Key III+ immobilizer device is designed to be active at all times without direct intervention by the vehicle operator. GM further stated that activation of the device occurs immediately after the ignition has been turned off and the key has been removed and deactivation of the antitheft device occurs automatically when the engine is started. GM stated that the Cadillac XT4 vehicle line will be equipped with one of two ignition versions. Specifically, the Cadillac XT4 will be equipped with either a keyed or keyless ignition version of its PASS-Key III+ immobilizer

antitheft device. GM also stated that the “keyed” ignition version utilizes a special ignition key and decoder module and its electrical code must be sensed and properly decoded by the controller module before the vehicle can be operated. GM further stated that with the “keyless” ignition version, an electronic key fob performs normal remote keyless entry functions and communicates with the vehicle without direct owner intervention. Specifically, during operation of the vehicle, when the owner presses the engine start/stop switch, the vehicle transmits a randomly generated challenge and vehicle identifier within the passenger compartment of the vehicle via three low-frequency antennas, controlled by the passive antenna module. The electronic key receives the data and if the vehicle identifier matches that of the vehicle, the electronic key will calculate the response to the vehicle using the challenge and secret information shared between the key and the vehicle. The electronic key then transmits the response via a radio frequency channel to a vehicle mounted receiver, conveying the information to the PASS-Key III+ control module. The PASS-Key III+ control module compares the received response with an internally calculated response. If the values match, the device will allow the vehicle to enter functional modes and transmit a fixed code pre-release password to the engine controller over the serial data bus, and enable computation and communication of a response to any valid challenge received from the engine controller. If a valid key is not detected, the device will not transmit a fixed code pre-release password to the engine controller preventing fuel from being delivered to the engine, enabling starting.

GM’s submission is considered a complete petition as required by 49 CFR 543.7, in that it meets the general requirements contained in 543.5 and the specific content requirements of 543.6.

In addressing the specific content requirements of 543.6, GM provided information on the reliability and durability of its proposed device. To ensure reliability and durability of the device, GM conducted tests based on its own specified standards. GM provided a detailed list of the specific tests it used to validate the integrity, durability and reliability of the PASS-Key III+ device. Some of the tests GM conducted were for high temperature storage, low temperature storage, thermal shock, humidity, frost, salt fog, flammability and others. GM believes that the device is reliable and durable since the components must operate as designed after each test. GM further stated that the design and assembly processes of the PASS-Key III+ subsystem and components are validated for 10 years of vehicle life and 150,000 miles of performance.

GM further stated that the PASS-Key III+ device has been designed to enhance the functionality and theft protection provided by its first, second and third generation PASS-Key, PASS-Key II, and PASS-Key III devices. GM also referenced data provided by the American Automobile Manufacturers Association (AAMA) in support of the effectiveness of GM's PASS-Key devices in reducing and deterring motor vehicle theft. Specifically, GM stated that data which provide the basis for GM's confidence that the PASS-Key 111+ system will be effective in reducing and deterring motor vehicle theft are contained in the response of the American Automobile Manufacturers Association (AAMA) to Docket 97-042; Notice I (NHTSA Request for Comments on its Preliminary Report to Congress on the Effects of the Anti Car Theft Act of 1992 and the Motor Vehicle Theft Law Enforcement Act of 1984). In the Report to Congress, AAMA stated the more recent antitheft systems are more effective in reducing auto theft. AAMA also cited the Highway Loss Data Institute (HLDI) findings on the effectiveness of antitheft devices in reducing theft. AAMA noted that vehicles with antitheft devices are less

likely to be stolen for joyriding or transportation and therefore, their recovery rates are lower.

GM also noted that theft rate data have indicated a decline in theft rates for vehicle lines equipped with comparable devices that have received full exemptions from the parts-marking requirements. GM stated that the theft rate data, as provided by the Federal Bureau of Investigation's National Crime Information Center (NCIC) and compiled by the agency, show that theft rates are lower for exempted GM models equipped with the PASS-Key-like systems than the theft rates for earlier models with similar appearance and construction that were parts-marked. Based on the performance of the PASS-Key, PASS-Key II, and PASS-Key III devices on other GM models, and the advanced technology utilized in PASS-Key III+, GM believes that the PASS-Key III+ device will be more effective in deterring theft than the parts-marking requirements of 49 CFR Part 541.

Additionally, GM stated that the model year (MY) 2014 Cadillac CTS and SRX theft rates (per 1000 vehicles produced) are below the 1990/1991 median rate of 3.5826. Specifically, the theft for the MY 2014 Cadillac CTS is 0.3546 and 0.8481 for the MY 2014 Cadillac SRX vehicle line. Since the same antitheft device will be used on the 2019 MY Cadillac XT4, GM believes the statistical data indicates that this vehicle will also have an acceptable theft rate to obtain an exemption from the parts marking requirements of 49 CFR Part 541. GM was granted an exemption from the parts-marking requirements by the agency for the Cadillac CTS vehicle line beginning with MY 2011 (See 74 FR 62385, November 27, 2009). The average theft rate for the Cadillac CTS and SRX vehicle lines, based on NHTSA's theft rate data, using 3 MYs data (MYs 2012- 2014) are 0.8518 and 0.6020 respectively.

GM further stated that it believes that PASS-Key III+ devices will be more effective in

detering theft than the parts-marking requirements and that the agency should find that inclusion of the PASS-Key III+ device on the Cadillac XT4 vehicle line is sufficient to qualify it for full exemption from the parts-marking requirements.

GM's proposed device lacks an audible or visible alarm. Therefore, this device cannot perform one of the functions listed in 49 CFR Part 543.6(a) (3), that is, to call attention to unauthorized attempts to enter or move the vehicle. Based on comparison of the reduction in the theft rates of Chevrolet Corvettes using a passive antitheft device along with an audible/visible alarm system to the reduction in theft rates for the Chevrolet Camaro and the Pontiac Firebird models equipped with a passive antitheft device without an alarm, GM finds that the lack of an alarm or attention-attracting device does not compromise the theft deterrent performance of a device such as PASS-Key III+ device. In these instances, the agency has concluded that the lack of an audible or visible alarm has not prevented these antitheft devices from being effective protection against theft.

Based on the evidence submitted by GM, the agency believes that the antitheft device for the Cadillac XT4 vehicle line is likely to be as effective in reducing and deterring motor vehicle theft as compliance with the parts-marking requirements of the Theft Prevention Standard (49 CFR 541).

Pursuant to 49 U.S.C. 33106 and 49 CFR 543.7(b), the agency grants a petition for exemption from the parts-marking requirements of Part 541, either in whole or in part, if it determines that, based upon substantial evidence, the standard equipment antitheft device is likely to be as effective in reducing and deterring motor vehicle theft as compliance with the parts-marking requirements of Part 541. The agency finds that GM has provided adequate

reasons for its belief that the antitheft device for the Cadillac XT4 vehicle line is likely to be as effective in reducing and deterring motor vehicle theft as compliance with the parts-marking requirements of the Theft Prevention Standard (49 CFR Part 541). This conclusion is based on the information GM provided about its device.

The agency concludes that the device will provide four of the five types of performance listed in §543.6(a)(3): promoting activation; preventing defeat or circumvention of the device by unauthorized persons; preventing operation of the vehicle by unauthorized entrants; and ensuring the reliability and durability of the device.

For the foregoing reasons, the agency hereby grants in full GM's petition for exemption for the Cadillac XT4 vehicle line from the parts-marking requirements of 49 CFR Part 541, beginning with its model year (MY) 2019 vehicles. The agency notes that 49 CFR Part 541, Appendix A-1, identifies those lines that are exempted from the Theft Prevention Standard for a given model year. 49 CFR Part 543.7(f) contains publication requirements incident to the disposition of all Part 543 petitions. Advanced listing, including the release of future product nameplates, the beginning model year for which the petition is granted and a general description of the antitheft device is necessary in order to notify law enforcement agencies of new vehicle lines exempted from the parts marking requirements of the Theft Prevention Standard.

If GM decides not to use the exemption for this line, it should formally notify the agency. If such a decision is made, the line must be fully marked according to the requirements under 49 CFR Parts 541.5 and 541.6 (marking of major component parts and replacement parts).

NHTSA notes that if GM wishes in the future to modify the device on which this exemption is based, the company may have to submit a petition to modify the exemption. Part

543.7(d) states that a Part 543 exemption applies only to vehicles that belong to a line exempted under this part and equipped with the antitheft device on which the line's exemption is based. Further, Part 543.9(c)(2) provides for the submission of petitions "to modify an exemption to permit the use of an antitheft device similar to but differing from the one specified in that exemption."

The agency wishes to minimize the administrative burden that Part 543.9(c)(2) could place on exempted vehicle manufacturers and itself. The agency did not intend in drafting Part 543 to require the submission of a modification petition for every change to the components or design of an antitheft device. The significance of many such changes could be *de minimis*. Therefore, NHTSA suggests that if the manufacturer contemplates making any changes, the effects of which might be characterized as *de minimis*, it should consult the agency before preparing and submitting a petition to modify.

Issued in Washington, DC under authority delegated in 49 CFR Part 1.95.

Raymond R. Posten,

Associate Administrator for Rulemaking.

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