



# **THOR** **ELECTRONIC EXHAUST SYSTEM**

Installation manual



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# PACKAGE CONTENTS

**Thor electronic control unit**

**Thor speaker acoustic system** 1 or 2 devices

**Thor speaker acoustic system connection cable** 1 or 2 cables

**Main harness**

**Installation manual**

**Warranty card**

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## REQUIRED TOOLS

**Electrician tool kit**

**Fitting tool kit**

**Testing instrument**

**Welding unit if necessary** if necessary

# **GENERAL INSTALLATION REQUIREMENTS**

**THOR electronic exhaust system is a complex electronic vehicle equipment. Driving safety may depend on reliability and validity of its operation. Inappropriate installation as well as issues arising in the course of system operation can lead to life-threatening situations. System installation should be performed by experienced foremen that have a sufficient level of professional expertise, preferably at certified car repair shops or car service centers.**

**Main unit is programmed and marked in accordance with a certain car brand/model. Please, make sure that the main unit is suitable for the given car before installation.**

**It is allowed to install the main unit of the system only inside the car.**

**Please, fasten each system component securely by all available means as acceleration, vibration and temperature changes, characteristic of vehicle typical operating conditions can cause damage of not only the functionality of installed system but vehicle standard systems including safety components on the move.**

**Main harness connection should be performed with Thor electronic unit disconnected and if possible with battery negative terminal post disconnected as well.**

# **GENERAL INSTALLATION REQUIREMENTS**

**It is desirable to lift switched connections in vehicle cavities as high as possible in the way that water vapor condensate will not be collected in drops at connecting point (it should not be located at the lower point) falling down onto the wire, exposing it to the risk of corrosion.**

**When connecting harnesses, please leave a small reserve in length, providing a sufficient level of harness drooping to avoid connection damage in case of vibration in the course of vehicle movement. Please, isolate wires connecting point securely. Apply materials (insulating tape and fastening elements) that are similar to the original elements of the given vehicle type.**

**In the process of system installation avoid lining harnesses in those places where their insulation can be damaged by friction, for instance, at the points of junction of plastic elements (or heat insulating elements) with car body.**

**In case it is necessary, put a wire through a hole in a metal part of car body or a design element of your car, you should take care of anticorrosive coat restoration and provide electrical conductor insulation protection from damage by friction. Apply rubber or plastic adapter bushings or use specially arranged regular wiring junctions.**

**Do not remove standard fuses when connecting the system to the electrical wiring circuit of the vehicle.**

# SYSTEM INSTALLATION

**1**  Install speaker acoustic system

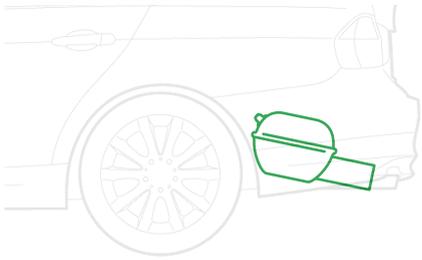
**2**  Connect harness to CAN and ACC circuits

**3**  Line harnesses

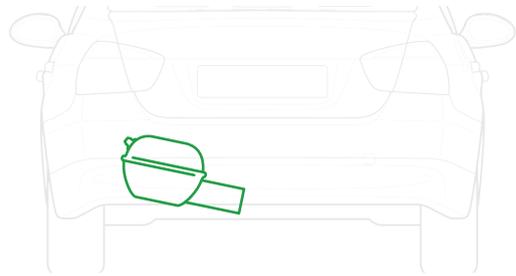
**4**  Connect system components

**5**  Check system operability

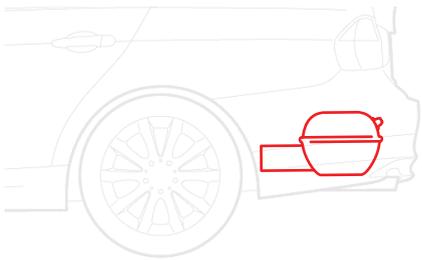
# GUIDELINES. SPEAKER ACOUSTIC SYSTEM INSTALLATION



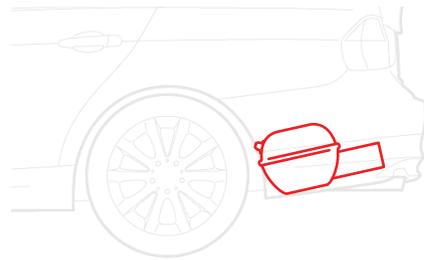
- ✔ Install speaker acoustic system against the direction of vehicle motion with flare end down



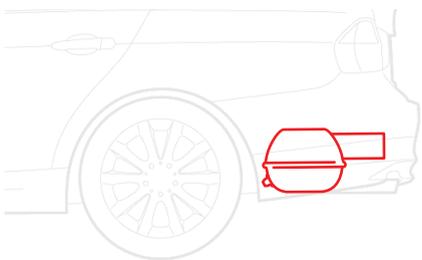
- ✔ It is allowed to install speaker acoustic system in profile plane



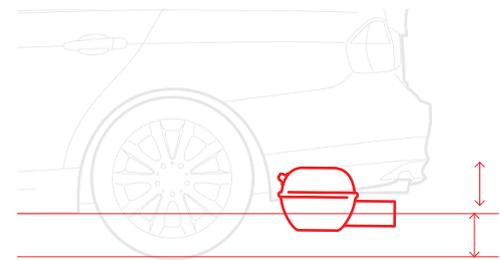
- ✘ Do not install speaker acoustic system in the direction of vehicle motion



- ✘ Do not install speaker acoustic system with flare end up



- ✘ Do not install speaker acoustic system with flare end on top



- ✘ Do not install speaker acoustic system lower than vehicle's road clearance

# SPEAKER ACOUSTIC SYSTEM INSTALLATION

 Install the speaker acoustic system(s) in the way to avoid its contact with the elements of vehicle body while the vehicle is moving. Speaker acoustic system should be securely fastened.

Route the connecting cable of the speaker acoustic system to the passenger compartment of the vehicle through regular inlet sleeves ensuring sufficient level of their sealing. Perform system connection with the main harness in accordance with wiring diagram.

Do not let speaker acoustic system overheat during the welding process to avoid electronic components and internal wiring breakdown.

## CONNECTING THE SYSTEM TO CAN CIRCUIT AND FEED CHAIN

Perform CAN-bus wiring only when electronic control unit of Thor system is disconnected. Observe the polarity of CAN-bus connection.

Connect plus power wire to vehicle electrical circuit that should be de-energized in the absence of the driver in passenger compartment. The given power circuit should have current rating that should be not lower than the rating of the fuse used in Thor electronic unit harness. It is better to use a wiring circuit that does not lose voltage during starter operation.

 **Do not connect the system to the unknown vehicle circuits.**

# **ROUTING HARNESSES**

If possible, route harnesses through regular conduits following general system installation guidelines.

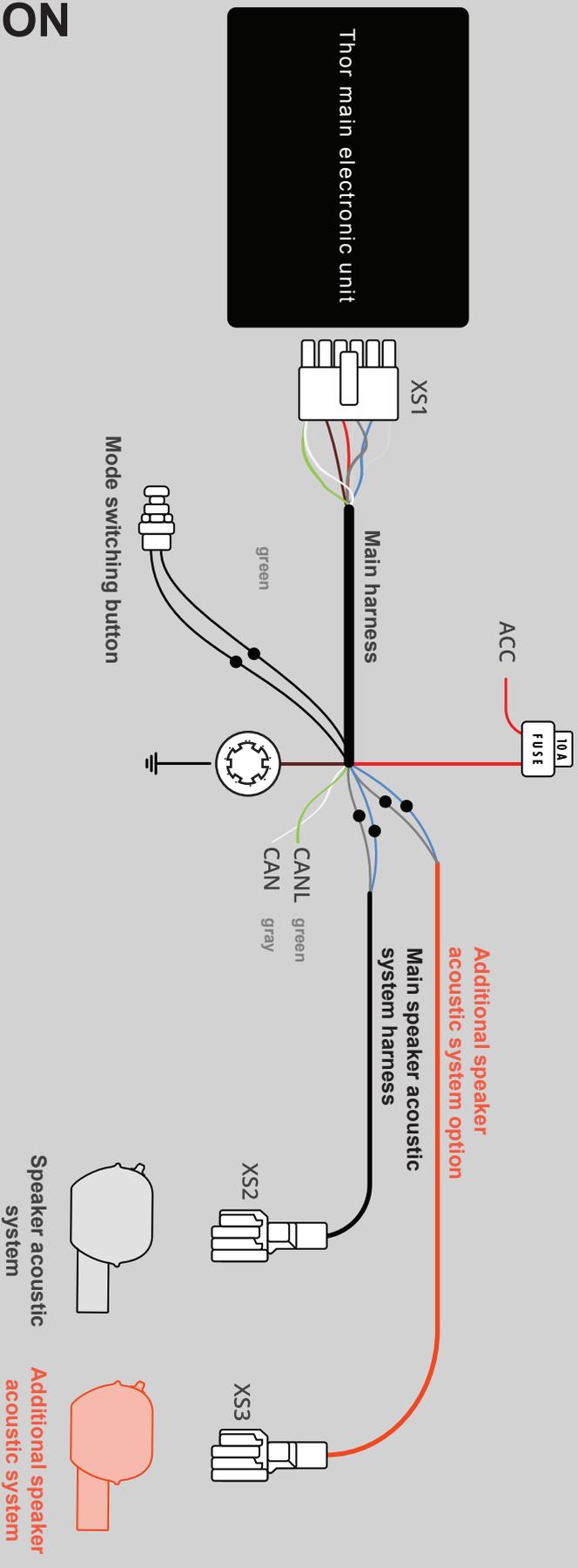
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## **SYSTEM CHECK**

Before testing the system for the first time, please make sure that all required connections have been made. Connect Thor electronic unit to harness connector. Start the engine and check system sound during engine speed change. Perform operating modes switching.

In case the system is non-operational, check power circuit, the correctness of system connection to CAN-bus.

# INSTALLATION DIAGRAM



● — Connect securely and Insulate



THOR



DESIGNED AND MADE  
IN GERMANY