

REQUIREMENTS FOR WABCO ECU AFTERMARKET PROGRAMMING

COVERS MOST WABCO PNEUMATIC ABS ECUs
AND NEW SMARTTRAC HYDRAULIC ABS

TECHNICAL BULLETIN



WABCO

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This publication is not subject to any update service.
You will find the current version on the internet at
<http://www.wabco-na.com>

1 General Information

Symbols used in this document

DANGER

Description of an immediate situation which will result in irreversible injury or death if the warning is ignored.

WARNING

Description of a possible situation which may result in irreversible injury or death if the warning is ignored.

CAUTION

Description of a possible situation which may result in irreversible injury if the warning is ignored.

NOTICE

Description of a possible situation which may result in material damage if the warning is ignored.



Important information, notes and/or tips



Reference to information on the internet

How to Obtain Additional Maintenance, Service and Product Information

If you have any questions about the material covered in this publication, or for more information about the WABCO product line, please contact the WABCO Customer Care Center at 855-228-3203, by email at wnacustomer@wabco-auto.com, or visit our website: www.wabco-na.com.

General Information

WABCO Academy



<https://www.wabco-academy.com/home/>

WABCO online product catalog



<http://inform.wabco-auto.com/>

Your direct contact to WABCO

WABCO North America
WABCO USA LLC
1220 Pacific Drive
Auburn Hills, MI 48326
Customer Care Center: (855) 228-3203
www.wabco-na.com

2 Safety Information

Provisions for a safe work environment

- Only trained and qualified technicians may carry out work on the vehicle.
- Read this publication carefully.
- Follow all warnings, notices and instructions to avoid personal injury and property damage.
- Always abide by the vehicle manufacturer's specifications and instructions.
- Observe all accident regulations of the respective company as well as regional and national regulations.
- The workplace should be dry, sufficiently lit and ventilated.
- Use personal protective equipment if required (safety shoes, protective goggles, respiratory protection and ear protectors).

Read and observe all Danger, Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

3 ECU Aftermarket Programming

WABCO's Aftermarket Programming allows WABCO ABS ECUs to be programmed on demand at the point of service. The goal is to improve vehicle uptime by allowing the point of service to maintain a small inventory of ECUs that can be programmed for a specific vehicle whenever an ECU needs to be replaced.



Not all ECUs will require programming. ECUs that require programming are shipped with an orange label indicating programming is required. If you are unsure whether your ECU requires programming, contact WABCO North America Customer Care at 855-228-3203.

4 Programming Requirements

Before ordering a programmable ECU, ensure you meet all of the following requirements to program the ECU:

- J1939 communications. Any wired J1939 RP1210 diagnostic adapter such as the Nexiq USB-Link™ 2 or Noregon JPro® DLA or DLA+PLC can be used for programming.
 - If you do not have the required diagnostic adapter, it can be purchased through your distributor.



Not all vehicles have J1939 communication with the ECU. For any vehicle built prior to 2010, verify J1939 communications with the ECU are possible using WABCO's TOOLBOX™ Software before purchasing a programmable ECU.

- If J1939 communication is not available on the vehicle, the ECU can be programmed on the bench using WABCO's Bench Programming Unit 400 850 960 0.
- WABCO's TOOLBOX™ Diagnostics Software version 12.7 or higher.
 - The latest version of TOOLBOX™ Software can be purchased at <https://wabco.snapon.com>.
- User account at <https://wabco.snapon.com>
 - If you do not have the requirements to program an ECU, contact Meritor Aftermarket Customer Care at 888-725-9355 (US) or 800-387-3889 (Canada) to purchase a fully programmed ECU at additional cost.

5 Programming Process

Once you are sure you meet all the requirements for aftermarket programming, complete the following process:

1. Acquire a programmable replacement ECU through your distribution channel or contact Meritor Aftermarket Customer Care at 888-725-9355 (US) or 800-387-3889 (Canada).
2. Install the replacement ECU into the vehicle or use WABCO's Bench Programming Unit 400 850 960 0. This can be purchased through your distribution channel or contact Meritor Aftermarket Customer Care.
3. Acquire a configuration file from <https://wabco.snaon.com>. You will need the full 17-digit VIN number of the vehicle, the old ECU part number on the vehicle and the new programmable ECU part number to download the configuration file. For newer ECUs, the old ECU part number and new programmable ECU part numbers can be the same.
4. Load the configuration file into the ECU using WABCO's TOOLBOX™ Software Aftermarket Programming application. TOOLBOX™ will indicate if the programming was successful by displaying a "PASS" message at the end of the process. If you get a "FAIL" message, the details of the error message are displayed on the screen for further action. For more information, contact WABCO Customer Care at (855) 228-3203.

6 How to Obtain Additional Maintenance, Service and Product Information

Additional information on aftermarket programming, including troubleshooting tips, can be found at <http://www.wabco-na.com/product/Aftermarket-Programming>.

- Maintenance Manual MM-0112, Anti-Lock Braking System (ABS) and Electronic Stability Controls (ESC)
 - Contains all pneumatic ABS and ESC ECU troubleshooting information and step-by-step process for aftermarket programming
- Maintenance Manual MM-1543, SmartTrac™ Hydraulic Antilock Braking Systems
 - Contains all SmartTrac hydraulic ABS troubleshooting information and step-by-step process for aftermarket programming
- Maintenance Manual MM-1719, Anti-Lock Braking System (ABS) and Electronic Stability Controls (ESC) for Modular Braking System Platform (mBSP™)
 - Contains all mBSP troubleshooting information

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WABCO
a **WORLD** of
DIFFERENCE

WABCO (NYSE: WBC) is a leading global supplier of technologies and services that improve the safety, efficiency and connectivity of commercial vehicles. Originating from the Westinghouse Air Brake Company founded nearly 150 years ago, WABCO continues to pioneer breakthrough innovations to enable autonomous driving in the commercial vehicle industry. Today, leading truck, bus and trailer brands worldwide rely on WABCO's differentiating technologies, including advanced

driver assistance, braking, steering and stability control systems. Powered by its vision for accident-free driving and greener transportation solutions, WABCO is also at the forefront of advanced fleet management systems that contribute to commercial fleet efficiency. In 2017, WABCO reported sales of \$3.3 billion and has nearly 15,000 employees in 40 countries. For more information, visit

www.wabco-na.com

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