

#2507
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SUBJECT: Allison DOC™ For PC–Service Tool V7.1.0 update

MODELS AFFECTED: All 1000, 2000, 3000, 4000 Product Families, 5610, 6610, 8610, 9610 Series,
5000, 6000, 8000, 9000 Series, and MT(B) 600, CL(B)T, V, HT(B) 700 Series Transmissions

AFFECTED SERIAL NUMBERS: All

Introduction:

Allison DOC™ For PC–Service Tool V7.1.0 update will be available in November of 2007, as a “no charge” internet-download for all the Allison DOC™ For PC–Service Tool V7.0.0 users. Allison Transmission recommends all V7.0.0 users upgrade to V7.1.0, as this new version incorporates new features and important enhancements discussed below.

In order to upgrade the software to V7.1.0, V7.0.0 must be already installed on the PC. Earlier versions of the service tool (e.g. V5.0.0, V6.0.0, V6.2.0, etc.) cannot be upgraded to V7.1.0, unless V7.0.0 (CD-based upgrade) is first installed.

Specific enhancements and new features included in V7.1.0, as well as downloading and installation procedures are the main topics addressed in this document. This document is not intended to replace or supersede #1207 but to complement it, as users transition to V7.1.0. It is advisable to still refer to #1207 for details related to PC platform requirements, training requirements, V7.0.0 CD ordering information, and other pertinent information.

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SD / SL5611EN

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New Features and Enhancements included in V7.1.0:

The Allison DOC™ For PC–Service Tool V7.1.0 update includes the following new features/functions:

- New Action Request named **Read Static Data** to extract and save static transmission information from Allison 4th Generation Controls
 - Use this function at the request of Allison Transmission when additional data is needed to help investigate an issue
 - To use this function the TCM must be powered, the ignition must be on, and the tool must be hooked up to the vehicle but not actively connected
 - A dialog box is displayed to allow the user to fill out the optional “User Input Data” information
 - The tool automatically saves the file in an S2 record format that can only be interpreted by Allison Transmission
 - The files are saved in ...*Allison Transmission\Allison DOC For PC–Service Tool\4Gen Static Data folder*

Additionally, the Allison DOC™ For PC–Service Tool V7.1.0 update includes the following enhancements:

- Updates General Troubleshooting Steps on Warning screen
- Updates the Data Bus Viewer to support updated Advertised Engine Torque Curve (AETC) parameter
- Changes the displaying logic of Main Mod Solenoid parameter for the 1000 and 2000 product families utilizing Allison 4th Generation Controls
 - Allison DOC™ must be updated to V7.1.0 or later to correctly display the On/Off state of the solenoid for calibrations created after 9/22/07
 - The service tool will display *Main Mod Solenoid (MM)* for calibrations created prior to 9/22/07 and *Main Mod Solenoid (NC2)* for calibrations created on or after 9/22/07
- The service tool now displays the exact number for Gear Ratio in the Strip Chart as displayed on Data Monitor
- The service tool now displays parameter values in the Strip Chart when the cursor is selected after stop is pressed on the playback window
- The service tool now displays the correct values for the Autodetect Information with software levels earlier than MY08

Download and Installation Procedures:

There are three ways to download and install Allison DOC™ For PC–Service Tool V7.1.0:

1. Update Application feature:
From the Allison DOC™ For PC–Service Tool V7.0.0 main menu, select Software Configuration. Then, select the Update Application tab, click on **Check for update** button, and follow the instructions on the screen. Depending on the internet communication system, this process may take several minutes. Please be patient.
2. Update URL:
From the software main menu, select Software Configuration. Click on the displayed URL (i.e. <http://www.noregon.com/allisondoc/docupdate.html>). Once the Update website is displayed, click on **Download Update** for V7.1.0, and select **Save** option. Select the Desktop from the “Save in:” pull-down menu, or any other easy-to-access location on the PC, and save the DOC710update.exe file. Once the file is successfully downloaded, make sure to close the Allison DOC™ For PC–Service Tool software, double-click on the DOC710update.exe file, and follow the instructions on the screen.
3. Allison Transmission Web site:
Go to www.allisontransmission.com | Service | Electronic Tools, and select Updates from the Table of Content. Click on the link to V7.1.0 download. Once the Update Website is displayed, click on the **Download Update** button for V7.1.0, and select **Save** option. Select the Desktop from the “Save in:” pull-down menu, or any other easy-to-access location on the PC and save the DOC710update.exe file. Once the file is successfully downloaded, close Allison DOC™ For PC, double-click on the DOC710update.exe file, and follow the instructions on the screen.

NOTES:

1. Two MS-DOS screens may appear during the upgrading process. It is very important not to interrupt this process until the install is completed.
2. Once the "V7.1.0 has been successfully applied" window is displayed, and you click OK, the Acrobat Reader upgrade process may start. Please follow the instructions on the screen.

Vendor Information:

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SGL, Inc. 8350 Allison Avenue Indianapolis, IN 46268 Phone: 1-888-666-5799 Fax: (317) 471-4996 E-mail: atd@sgi-net.com	Softing North America, Inc. 29 Water Street Newburyport, MA 01950 Phone: (978) 499-9650 Fax: (978) 499-9654 E-mail: info.usa@softing.com www.softing.us
Noregon Systems 100 N. Main Street, Suite 2200 Winston-Salem, NC 27101 Phone: (336) 768-4337 Fax: (336) 760-2540 E-Mail: sales@noregon.com www.Noregon.com	Canton Parts Distribution Center 515 11th Street, S.E. Canton, OH 44707 Phone: (330) 430-4384

Acronyms List:

A4GC: Allison 4th Generation Controls
CAN: Controller Area Network
CEC: Commercial Electronic Controls (used with On/Off-Highway transmission, formerly called ATEC)
DOC: Diagnostic Optimized Connection
DPA: Dearborn Protocol Adapter
GM: General Motors
GMLAN: General Motors Local Area Network (GM proprietary communication protocol)
PC: Personal Computer
PCI: Peripheral Component Interface
PCMCIA: Personal Computer Memory Card International Association
P/N: Part Number
SIL: Service Information Letter
S/P: Serial/Parallel
TCM: Transmission Control Module
URL: Universal Resource Locator
USB: Universal Serial Bus
V: Version
WTEC: World Transmission Electronic Control