Service Information

VAS Tester

Number: AVT-13-03

Subject: VAS 6160/-VPC Diagnostic Tablet - System Recovery Instructions

Date: Jan. 29, 2012

1.0 – Introduction

Due to their function as diagnostic tools, **VAS 6160-VPC** and **VAS 6160 Diagnostic Tablet** devices are equipped with a proprietary Windows XP® operating system. A partitioned hard drive is utilized and the system is specially configured to support the installation and licensing requirements of the installed diagnostic software platforms.

In the event of operating system malfunctions, system recovery must be performed using data stored on the partitioned hard drive. **A separate "Recovery DVD" is not used.** The latest version diagnostic software must also be reinstalled and configured as applicable after successful system recovery.

These instructions were validated using US/CDN market devices and software. The operating manuals included with the tablet may contain information that is not applicable to the US/CDN market. For system recovery etc., the instructions provided here take precedent.

If assistance with specific steps is needed, contact **Audi DTSS at 1-888-896-1298.**

ATTENTION!

- **DO NOT USE the Panasonic installation CDs supplied with the diagnostic tablet for operating system recovery!** Use of the Panasonic CDs will completely erase all VAS-specific partition data and install a standard Windows XP® or Windows 7® laptop operating system. Subsequent installation and function of the diagnostic software is not possible on a standard laptop installation.

- During the recovery process described here, all data on hard drive C:\ is erased. Only data on hard drive D:\ is retained. If possible, finalize all stored diagnostic sessions and transmit all saved diagnostic protocols prior to recovery.

Notes:

- *VAS 6160-VPC tablets are part of the VAS-VPC/TSP Testing System Package (along with VAS 6356 Test Instruments Box, VAS 6556A Mobile Trolley and VAS 5051/51D Printer).*

- *This procedure should be performed by an experienced user or IT professional.*

- *Please read this entire document before performing system recovery.*

- *Heed all prerequisite requirements and notes, and follow all instruction steps (including instruction steps cross-referenced in other documents posted on ServiceNet).*

- *Perform this procedure in an area that is quiet, clean and without distraction or interruption.*

- *We recommended a printed copy of these instructions be used during the recovery process.*

- *Allow approximately 2 hours to complete the recovery and software reinstallation procedure.*

- *Perform this procedure with the diagnostic tablet power supply adapter cable plugged in.*

- *During system recovery and subsequent rebooting, the diagnostic laptop must not be connected to the docking station (port replicator).*

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2.0 – General Information

This document contains step-by-step instructions required to perform **Windows XP® operating system recovery** on **VAS 6160-VPC** and **VAS 6160 diagnostic tablets ONLY.**

This document **does not** contain the additional, step-by-step setup, software installation and configuration instructions needed to put the device back into service**.** These instructions are located in **existing Service Information documents posted on ServiceNet.** Use a dealership PC or laptop connected to a printer to access the Service Information document titles specified in **Section 4.0.**

If hard drive or other malfunctions prevent access to the system BIOS, or the recovery process fails to start as described below, contact **Audi DTSS: 1-888-896-1298**.

3.0 – System Recovery

The system recovery process is initiated through the system BIOS. To enter the BIOS Setup, press the F2 key on startup when the Panasonic logo is displayed.

Prerequisites:

- ☐ *Tablet **removed** from base station (port replicator).*
- ☐ *Tablet wireless operation switch in the **OFF** position.*
- ☐ *Tablet connected to power adapter (do not attempt recovery on battery power alone).*
- ☐ *Ethernet (network) cable **disconnected** from tablet.*
- ☐ *USB mouse and keyboard connected for easier navigation and inputs.*

1. Turn on the diagnostic tablet.

2. When the Panasonic logo is displayed, press the **F2** key (on the USB keyboard) to enter the BIOS Setup.
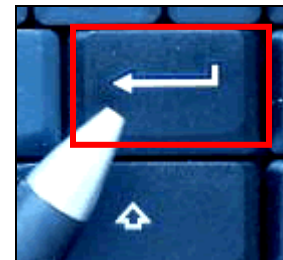

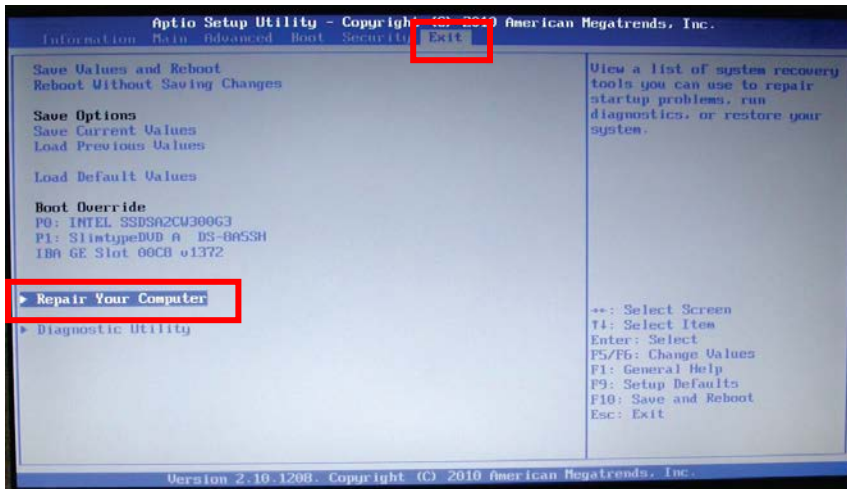A BIOS password prompt appears:

3. Enter BIOS password: **vas6160**

4. Press the **Enter** key.
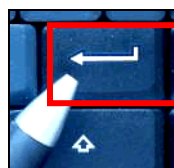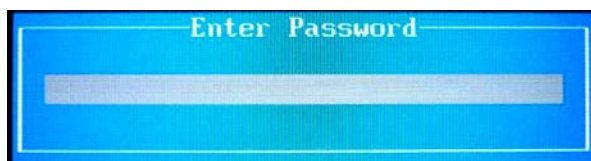
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5. In the BIOS menu, select the **Exit** tab, then select **Repair Your Computer**. Press the **Enter** (on the USB keyboard) to continue.

After the **Enter** key is pressed, the system recovery starts. After approximately 2 minutes, the message "**System will be recovered**" is displayed.

6. Press the "**2"** key (on the USB keyboard), then press **Enter** to continue:
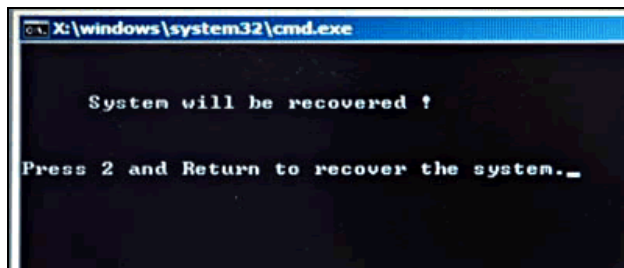
Recovery will take between 15 and 30 minutes. When complete, the system will reboot.

7. After the system reboots, the Windows XP Setup Wizard is displayed. Click **Next** to continue.

8. Review the Regional and Language options, ensuring that **English [United States] (EN)** is set as default in all selections and tabs. Make changes if necessary. Then click **Next**.

9. Set the **Date, Time, Time Zone** and **Daylight Savings** settings as applicable to your location and click **Next**. The system saves various settings and then automatically reboots to the Windows desktop.

10. Disconnect the DC cable end of the power adapter from the tablet and connect to the base station (port replicator).

11. Mount the tablet in the base station (port replicator)

12. Perform the additional setup and diagnostic software installation steps specified in **Section 4.0.**

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4.0 – Additional Setup & Diagnostic Software Installation

The following subsections describe additional setup needed prior to placing the device back into service.

Locate and follow the step-by-step setup, software installation and configuration instruction documents posted in the **Workshop Equipment > VAS Tester or ODIS Service > Service Information** sections of **ServiceNet.** Use a dealership PC or laptop connected to a printer to access the documents specified in **Sections 4.1, 4.4, 4.5 and 4.6** below.

If a referenced document does not appear under the current calendar year listing, look in the previous calendar year list or enter the document title in the **SEARCH** function of ServiceNet.

4.1 – Set Computer Name

Refer to **VAS Tester – Service Information** document title: **VAS Diagnostic Device Computer Name Builder.**

4.2 – Network Configuration

For dealership networks using **DHCP** for Internet access, no configuration is necessary (default setting in laptop is DHCP). Proceed with Netviewer installation below.

For dealership networks using **Static IP** configurations for Internet access, the configurations must be renewed after installation/recovery. Ask your dealership IT professional for details and assistance.

If you are unsure of the type of network configuration used, ask your dealership IT professional, or contact the **Audi IT Service Desk** at **1-866-892-3375** for assistance.

4.3 – Netviewer Installation

Prerequisite:

☐ *Diagnostic tablet is able to connect to internet in order to logon to ServiceNet (DHCP, or static IPs enabled as per Section 4.2).*

1. Connect network/Ethernet cable to tablet.

2. Launch **Internet Explorer** and logon to **ServiceNet**.

3. Navigate to the **Workshop Equipment > VAS Tester > Software** section.

4. Right click / select the link: **Netviewer one2one – Telediagnosis Software**.

5. **Save** file to Windows desktop.

4.4 – Reinstall and Configure Diagnostic Software

4.4.1 – VAS 6160V Only - Reinstall and Configure VAS-PC Base & Audi Brand Software

1. In the **Workshop Equipment > VAS Tester > Software** section, refer to document title: **Current VAS-PC Software Versions**

2. Note the latest current **VAS-PC Base** and **Audi Brand** software versions and disc ordering numbers from the software version document.

3. Navigate to the **Workshop Equipment > VAS Tester > Service Information** section.

4. Refer to the **VAS Tester - Service Information** document title that covers the installation of the **latest VAS-PC Base software version**. Example: **VAS-PC Base V19.01.XX Installation Instructions.**

5. Retrieve the latest **VAS-PC Base** and **Audi Brand** version discs noted above from your VAS-PC disc library, and perform the Base installation and configuration, as well as Audi Brand installation steps as specified in the VAS-PC Base installation instructions.

4.4.2 – VAS 6160V & VAS 6160 - Reinstall ODIS Service Software & Security Certificate

Notes:

- *Reinstallation of ODIS Service after system recovery requires reinstallation of the device-specific license and security certificates that were requested, saved and installed during the initial ODIS Service installation process.*

- *When instructed buy the documentation, retrieve and install the saved, device-specific license and certificate files from either the **original** or **backup USB flash drive.***

1. Navigate to the **Workshop Equipment > ODIS Service > Service Information** section.

2. Refer to **ODIS Service – Service Information** document titles:

   - **ODIS Service Installation Phase 2 – Software Installation & Configuration Instructions**

   - **ODIS Service Installation Phase 3 – Security Certificate Request & Installation Instructions**

3. Retrieve the latest ODIS Service installation DVD version and perform the software installation, configuration, and security certificate request and installation steps as specified in the above instructions.

4.5 – Renew VAS 5054A Bluetooth and EDIC Configurations

Refer to **VAS Tester - Service Information** document title: **VAS 5054A Transmitter Head - Bluetooth & EDIC Configuration.**

4.6 – VAS 5054A USB Configuration

Refer to **VAS-Tester - Service Information** document title**: VAS 5054A Transmitter Head - USB Configuration & Function**

4.7 – VAS 6160-VPC ONLY - Import GeKo Certificate

System recovery erases all data on the C:\ drive, including the previously-imported VAS GeKo security certificate. After system recovery, and prior to performing immobilizer adaptations etc., a replacement certificate must be imported.

Prerequisites:

☐ *Network configuration performed and Netviewer installed as per Section 4.2.*

☐ *Latest VAS-PC Base & Brand versions installed as per Section 4.4.1.*

☐ *VAS 5054A Bluetooth & EDIC configurations successfully performed as per Section 4.5.*

☐ *Tablet powered up to Windows desktop and Ethernet cable connected.*

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1. From the windows desktop, start the **VAS-PC application**.

2. Select the **Administration** function.

3. From the **Administration** header, record the six digit **Equipment Number:**

   Equipment Number: _____

4. Contact the **Audi IT Service Desk** at **866-892-3375**

5. Inform the IT Service Desk consultant that system recovery on a VAS diagnostic device was performed, and request their assistance with importation of a new GeKo security certificate.

6. Provide the VAS model designation and Equipment Number to the IT Service Desk consultant when prompted.

4.8 – Reinstall Anti-Virus Software (where applicable)

Reinstall anti-virus software as per your dealership's IT policy where applicable.