Service Information

Das Auto.

Diagnostic Device Hardware & Windows® **Number: VHW-15-06**

Subject: VAS Diagnostic Devices – Windows 7 Installation Instructions **Date: Jan. 26, 2015**

Supersedes VVT-14-08 due to updated ServiceNet section titles.

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Notes:

- *The following procedures must be performed* ***by qualified personnel only!***
- *Please read these instructions in their entirety before performing these procedures.* ***If you do not understand these instructions, arrange to have a qualified person perform these procedures.***
- *Heed all prerequisite requirements and notes, and* ***follow all instruction steps in the Section order given,*** *including instructions cross-referenced in documents posted on ServiceNet.*
- ***Discard all printed copies of this document after use****. Revised versions may be issued at any time. Always check ServiceNet for the latest version.*

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1.0 – Introduction

1.1 - Background

Microsoft support of Windows XP ends April 8, 2014. As a result, all eligible VAS diagnostic devices connected to VWAG Group systems worldwide **must be updated to Windows 7.**

This document contains step-by-step instructions required to install the **Windows 7 Professional operating system** from **VWGoA-supplied DVDs** on the eligible VAS diagnostic devices identified below.

1.2 – Eligible Devices

The Windows 7 installation process described here applies **ONLY** to the following VAS diagnostic devices:

Type:	Model Numbers
Laptops	**VAS 6150A, VAS 6150B & VAS 6150C**
Tablets	**VAS 6160 & VAS 6160A**

1.3 – Installation Process Overview

Windows 7 Installation DVDs

Windows 7 installations are performed using **device-specific DVDs.**

Each DVD is individually identified by **device model number**, and can be used on multiple devices **of the same model**. An error message appears if a DVD is used on the wrong device.

Each dealer automatically receives (free of charge) **one of each** device-specific DVD based on the eligible VAS diagnostic device sales data current to the publication date of this document.

Installation & Recovery

Windows 7 files from the **device-specific DVD** are installed on a hard drive partition**.** The Windows recovery procedure is then initiated to overwrite the existing Windows XP operating system files with Windows 7 files.

All data on hard drive C:\ is erased and replaced. The Windows 7 recovery data installed on the hard drive partition is retained if recovery is required in future.

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Diagnostic Software and Security Certificate Reinstallation

The Windows 7 recovery process deletes the previously-installed ODIS Service license and certificate files, and changes the device's hardware key. As a result, **a new license file** must be requested from eShop prior to ODIS Service reinstallation. The new hardware key also requires that **a new ODIS Service Security certificate** be requested and imported.

The total time to complete all procedures depends on many variables. Examples include differences in device performance, installer proficiency, license and certificate approval times. Performing supplementary setups immediately or deferring until later also affects total completion times. Examples include reinstalling antivirus and printer software, configuring a VAS 6356 Test Box, downloading and installing ODIS Service and Windows updates. **As such, a general time-to-completion estimate is not plausible.**

IMPORTANT!

- **If the Windows - Panasonic CDs originally included with the device when new were retained, please LOCATE and DISCARD THESE DISCS NOW! Inadvertent use of the Panasonic CDs for recovery will completely erase the device-specific data and partitioned image, and install a standard, non-partitioned Windows XP or Windows 7 operating system.**
- **If the Windows 7 installation performed here malfunctions or becomes corrupt, it must be recovered from the image on the partition.**
- **It is not possible to revert back to Windows XP once Windows 7 is installed.**
- **Do not install VAS-PC diagnostic software on a Windows 7 device!**
- **Perform all procedures specified here on ONE DEVICE AT A TIME through to completion, BEFORE commencing with other devices.**

2.0 – Additional Documentation

These instructions contain references to **Service Information (SI)** documents with additional instructions needed before placing the device back into service. These documents are all posted in the **Vehicle Diagnostics** section in **ServiceNet**. Locate and print the following documents to have on hand before proceeding with these instructions:

SI Document Category	Document Titles
ODIS Service	ODIS Service Installation Phase 1 - Preparation & License Request Instructions (eShop)
	ODIS Service Installation Phase 2 - Software Installation & Configuration Instructions
	ODIS Service Installation Phase 3 - Security Certificate Request & Installation Instructions
	ODIS Service Infomedia Setup Instructions
Diagnostic Device Hardware & Windows	VAS Diagnostic Device Computer Name Builder
	VAS 5054A Transmitter Head Bluetooth & EDIC Configuration – ODIS Service Only
	VAS 5054A Transmitter Head USB Configuration – ODIS Service Only

☐ **Additional Documentation steps completed. Proceed to Section 3.0 – Page 4.**

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3.0 – Preparation Checklist

Complete the **Preparation Checklist** below for **each device** where Windows 7 will be installed. Additional checkboxes are provided throughout this document to note the fulfillment of prerequisites, redirects to device-specific information and completion of sections.

✓	Preparation Checklist
	Print the additional documentation from ServiceNet as specified in **Section 2.0.**
	Choose ONE eligible device in workshop service as specified in **Section 1.2.**
	Note the device type and model number.
	VAS 6160 & VAS 6160A tablets: Mount tablet to base station (port replicator). Connect a USB mouse and keyboard **directly to tablet.**
	Connect the A/C power adapter directly to the laptop or tablet.
	Boot the device and confirm **Windows XP** appears on startup***.**
	Start ODIS Service. Finalize all saved diagnostic sessions and transmit logs where applicable.
	Disconnect the Ethernet (network) cable where applicable.
	Switch the **Wireless Operation Switch** to the **OFF position** as illustrated **-arrows-:**

VAS 6150A

Front panel behind handle

VAS 6150B & VAS 6150C

Middle right side behind **WIRELESS** door

VAS 6160 & VAS 6160A

Upper left side behind **SC/EX** door

Obtain the device-specific Windows 7 installation DVD:

	Model Number:	DVD Title:	Ordering Number**:
	VAS 6150A	VAS 6150A/20	ASE 905 206 00 000
	VAS 6150B	VAS 6150B/20	ASE 905 206 00 001
	VAS 6150C	VAS 62150C/20	ASE 905 206 00 002
	VAS 6160 & VAS 6160A	VAS 6160/20	ASE 905 400 00 000

***DO NOT use the Windows 7 installation DVDs on new VAS 6150C and VAS 6160A already loaded with Windows 7!**

****Order misplaced or additional DVDs from www.vw.techliterature.com**

	All Preparation steps completed. Proceed to Section 4.0 – Page 5.

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4.0 – Installation

Two installation methods are possible.

The **Standard Installation** method installs Windows 7 files directly from the device-specific DVD. This method is recommended for most cases.

The **Optional Installation** method installs Windows 7 files copied from the device-specific DVD to **alternate storage media**, e.g.: external hard drive, USB flash drive, SD card etc.

Note:
The optional method can be used if the device DVD-ROM drive functions were intermittent in the past, and/or performed only by those with experience with copying and installing files from a DVD to alternate storage media. Refer to **Section 4.2 – Page 7.**

4.1 – Standard Installation

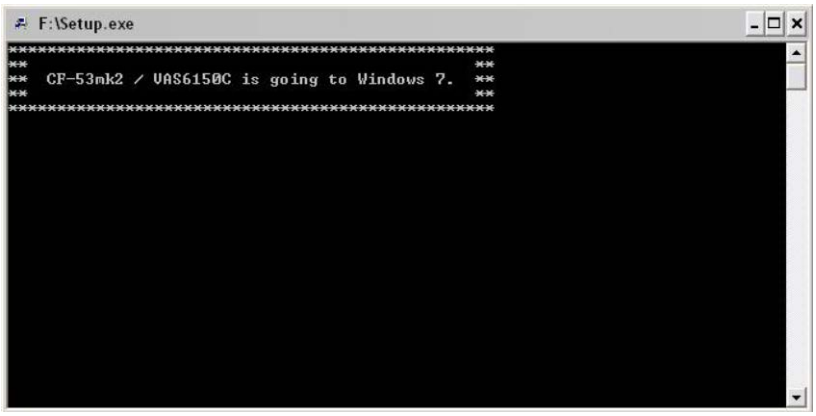
Prerequisites:

- ☐ ***Confirm:*** *All applicable* ***Preparation Checklist*** *items fulfilled.*
- ☐ *ODIS Service and all other programs* ***not*** *running.*

1. **Insert** the device-specific installation DVD in the DVD-ROM drive and **wait** while the disc is read.
2. Go to: **My Computer** and **Open** the **DVD-ROM** directory. ***Note:*** *The title and drive information illustrated below are for reference only:*

3. Click **Setup:**

The **Setup.exe** and **Symantec Ghost** screens appear automatically, one after another:



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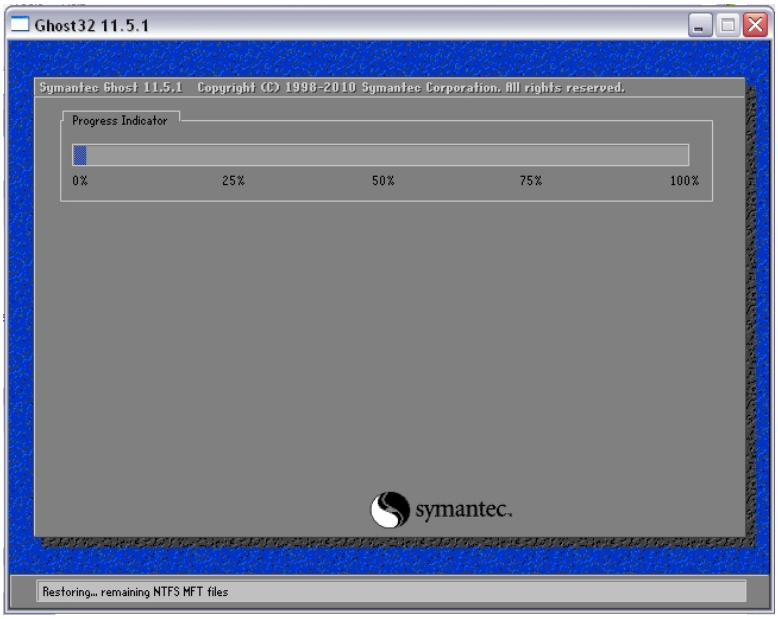
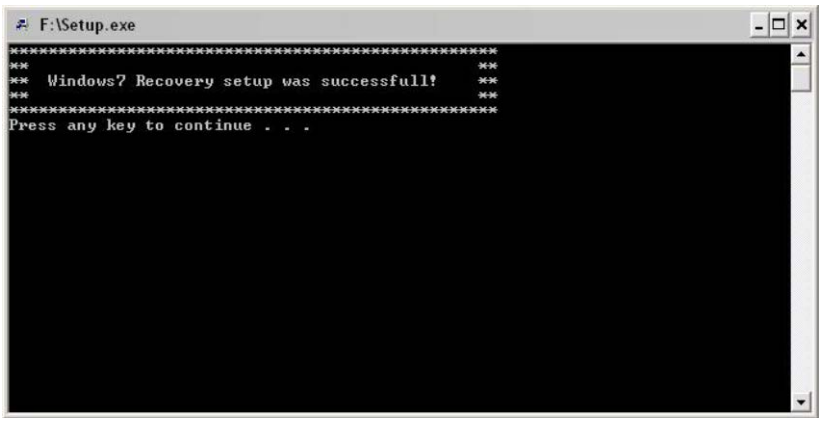


Notes:

- *User intervention is not required during the setup and ghost processes.*
- *If the processes are aborted by the user, or automatically by the system, repeat Steps 1 - 3 above.* **DO NOT** *start the recovery process if the setup and ghost processes are not completed.*

When the setup and ghost processes are completed, the following screen is displayed:



4. **Press** any key and **remove** the installation DVD from the CD/DVD drive.
5. **Close** all windows and **shut down** the diagnostic device: **Start > Turn Off Computer… > Turn Off**
6. **Remove** the diagnostic device **from the base station** (port replicator) where applicable.
7. **Retain** the DVD for use on additional devices with the same model number.

☐ **Installation steps completed. Proceed to Section 5.0 – Page 8.**

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4.2 – Optional Installation

Prerequisites:

- ☐ *All applicable **Preparation Checklist** items fulfilled.*
- ☐ *ODIS Service and all other programs **not** running.*
- ☐ *Access to desktop or laptop computer capable of reading and copying files from a DVD to alternate storage media available*
- ☐ *Formatted alternate storage media on hand with at least **10GB** of available free space, e.g.: external hard drive, USB flash drive, SD card etc.*

1. **Connect** the alternate storage media to a desktop or laptop computer.
2. **Create** an empty directory folder.
3. **Name** the empty folder to identify its contents, using the device model number, e.g.: **6160_Win7_Rec.**
4. **Insert** the device-specific installation DVD in the CD/DVD drive of the desktop or laptop computer.
5. **Copy** the entire contents of the installation DVD to the prepared directory folder on the alternate storage media.
6. **Remove** the installation DVD from the CD/DVD drive.
7. **Safely Remove / Eject** the alternate storage media as applicable.
8. **Connect** the alternate storage media to the diagnostic device.
9. From the Windows desktop go to **Start > My Computer**.
10. Locate and **open** the prepared directory folder
11. Proceed with installation **steps 3 through 6** in **Section 4.1 – from Page 5**.

☐ **Optional Installation steps initiated.**

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5.0 – Recovery

Prerequisites:

- ☐ *All devices **removed** from their base station (port replicator) where applicable.*
- ☐ ***Confirm: Ethernet cable DISCONNECTED & wireless operation switch in the OFF POSITION!***

ATTENTION!

The A/C power adapter must be connected directly to the device during recovery. DO NOT recover on battery power alone!

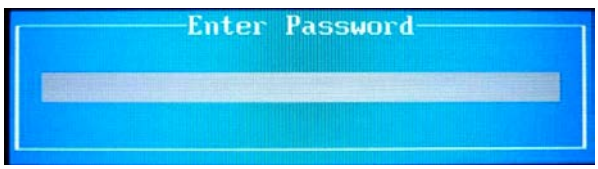
1. **Turn on** the diagnostic device.
2. When the **Panasonic** logo is displayed, quickly press the **F2** key on the keyboard to enter the setup.

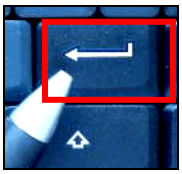
A BIOS password prompt appears.

3. **Note** the device-specific password from the table below:

Model	BIOS Password
VAS 6150A	**vas6150**
VAS 6150B	**vas6150b**
VAS 6150C	**vas6150c**
VAS 6160 & VAS 6160A	**vas6160**

4. **Enter** the password **exactly as noted above** (lower case, no spaces):
5. **Press** the keyboard (or onscreen keyboard) **Enter** key:





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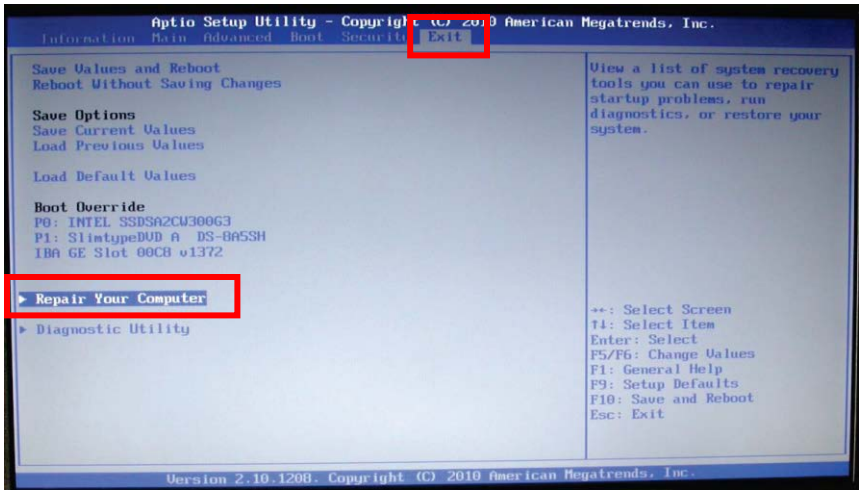
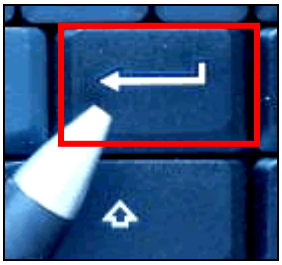
6. In the **BIOS menu**, use the **right and left arrow keys** to select the **Exit** tab:
7. Using the **up and down arrow keys**, select **either:**

   Repair Your Computer **OR** **Recovery Partition**

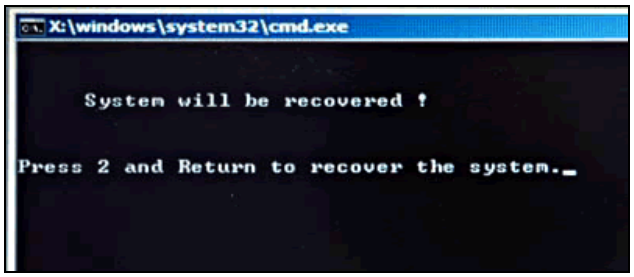
   as applicable. Press the **Enter** key to continue:





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

8. **Press** the **2** key, then press the **Enter** key to continue:



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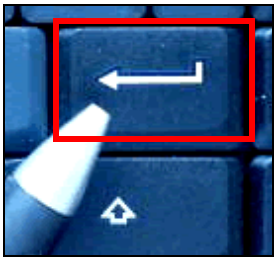

- Allow 30 – 90 minutes for device recovery (device-dependent).
- The progress window may appear to stall at 99% - 100%. Please be patient!
- When complete, the system will automatically reboot and display a series of automatic setup, registry and service screens followed by the initial Windows setup screen.

☐ **Recovery steps completed. Proceed to Section 6.0 - Page 10.**

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6.0 – Post-Recovery Setup

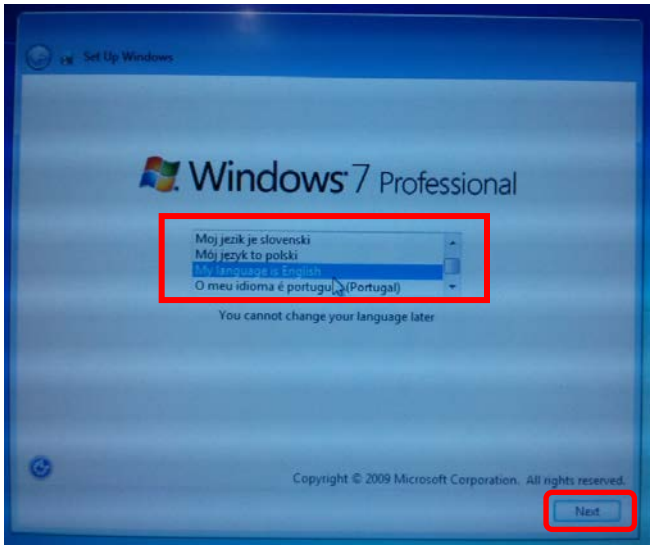
6.1 – Windows 7 Startup & Initial Setup

Prerequisite:

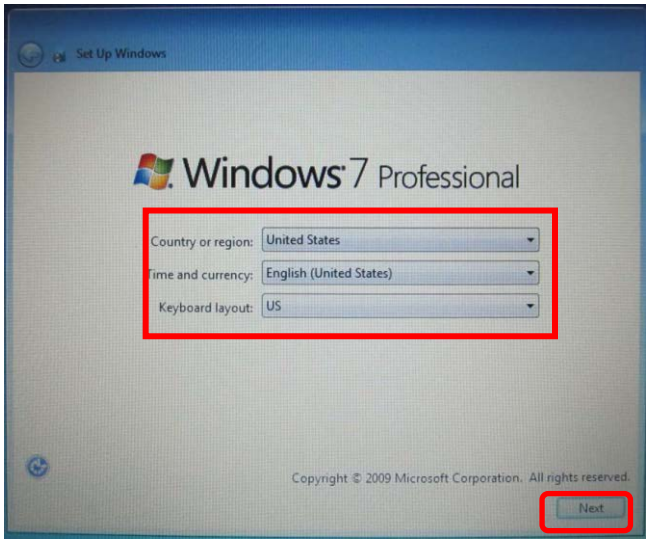
☐ ***Confirm: Ethernet cable DISCONNECTED & wireless operation switch in the OFF POSITION!***

> ***Note:***
>
> *The initial language selection made in Step 1 below cannot be changed after the device is placed in service.* ***Avoid having to repeat the recovery process by selecting the language carefully!***

1. From the initial Windows setup screen, **carefully scroll down** and select **My language is English:** Click **Next:**



2. **Confirm** the regional settings, time/currency and keyboard layout as illustrated, and then click **Next**:



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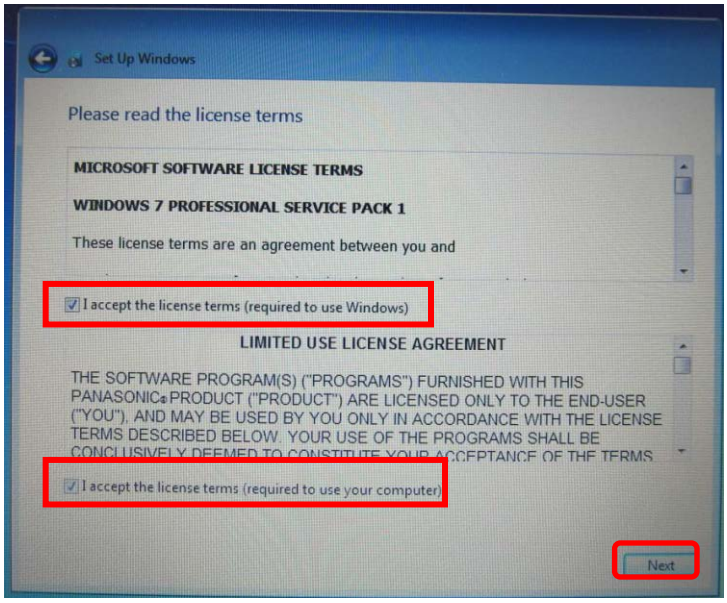
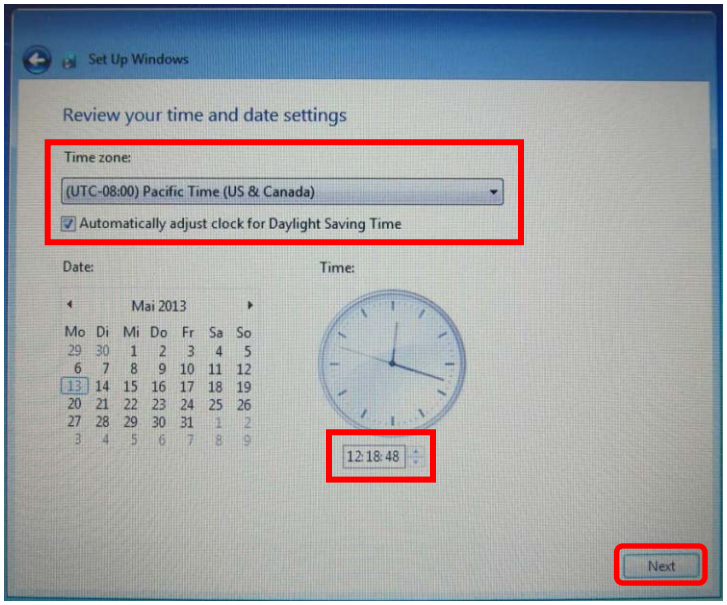
3. **Read** the **license terms and conditions,** and accept by checking the appropriate boxes. Click **Next:**



4. **Set** the **Time Zone, Daylight Saving Time, Date** and **Time** as applicable to your location. Click **Next:**



- Various settings are saved and the device automatically reboots to the Windows desktop.
- For convenience, the device can now be returned to its base station **if desired** (not mandatory).
- In all cases **the A/C power adapter must remain connected** for the following procedures. The USB mouse and keyboard should also remain connected where applicable.

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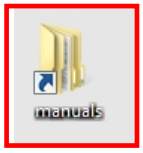
6.1.1 – Delete Non-Applicable Information

The Windows 7 desktop includes documents that are not applicable to the -US/CDN- market**. Please delete these documents** as follows:

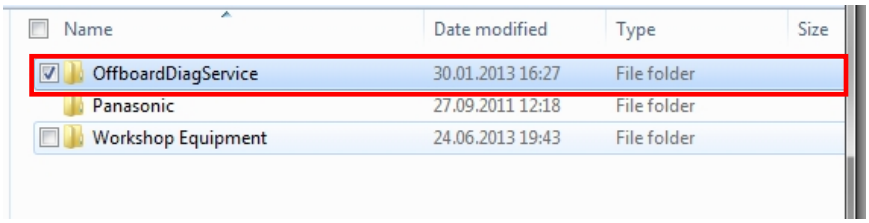
1. From the Windows desktop: **Locate** two document **shortcut icons** entitled:

   HowTo Guide_ODIS Service Set-Up_EN and **HowTo Guide_ODIS Service Set-Up_DE:**

2. **Right-click** a shortcut icon, and then select **Delete** from the dropdown.
3. When prompted to confirm file delete, click **Yes**. Repeat for the remaining icon.
4. From the Windows desktop: **Open** the **Manuals** folder:



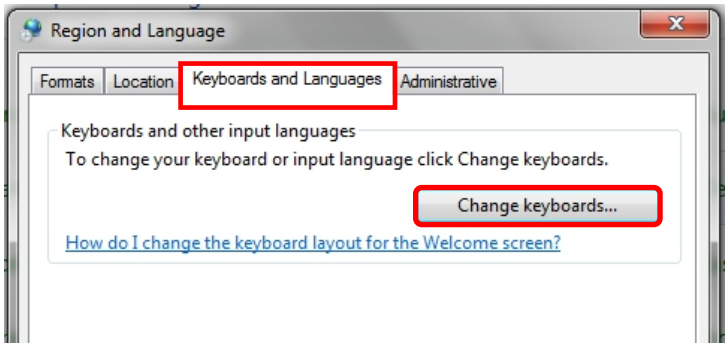
5. **Right-click** the **OffboardDiagService** folder, and then select **Delete** from the dropdown:



6.1.2 – Confirm Keyboard Language

1. Go to: **Windows (Start)** **> Control Panel > Region and Language:**

2. **Select** the **Keyboards and Languages** tab. Click **Change Keyboards…:**



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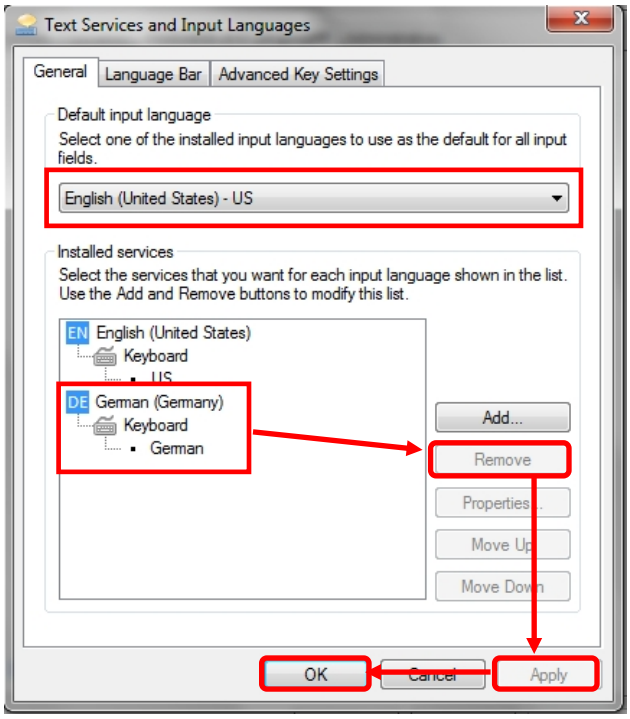
3. **Confirm** that the **Default input language** is set to **English (United States) - US** as illustrated below. If not, select it from the dropdown.
4. **If** the **German (Germany)** input language service appears, select it and click **Remove.**
5. If any changes were necessary, save them by clicking **Apply,** and then **OK:**



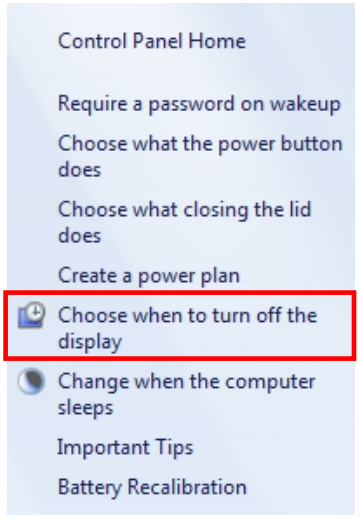
6. Close the languages window and return to the **Control Panel** menu.

6.1.3 – Device Power Management

To ensure uninterrupted data transfer when performing lengthy Software Version Management (SVM) procedures, configure the device to remain on as follows:

1. Go to: **Control Panel > Power Options:**

2. From the Control Panel Home menu, select **Choose when to turn off the display:**



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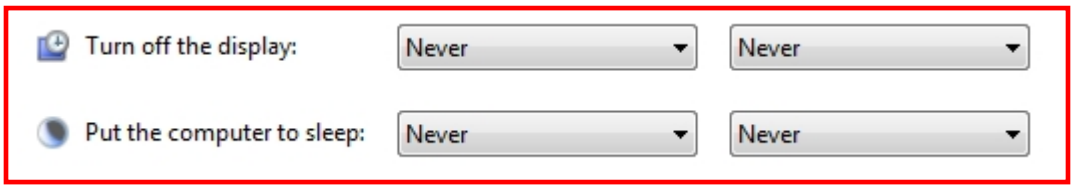
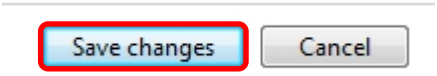
3. Select **Never** from the dropdowns as illustrated:



4. Click **Save changes** (at bottom frame):

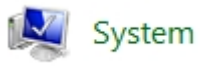


5. **Close** the power options window and return to the **Control Panel** menu.
6. **Check and proceed** to the device-specific sections as applicable:
   - ☐ **VAS 6150B, VAS 6150C, VAS 6160 & VAS 6160A:** Proceed to **Section 6.1.5 – Page 16.**
   - ☐ **VAS 6150A:** Proceed to **Section 6.1.4** below:

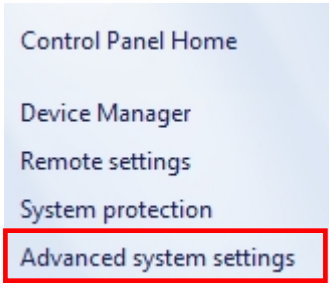
6.1.4 – VAS 6150A Diagnostic Laptops: Increase Paging File Size

For optimum performance, increase the paging file size **on VAS 6150A laptops** as follows:

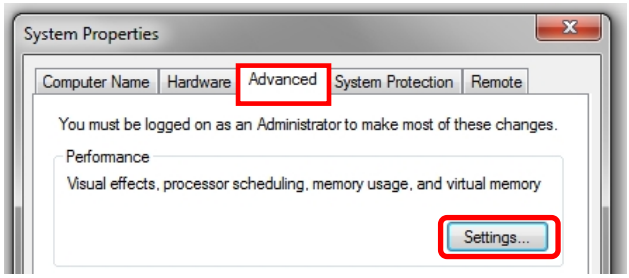
1. Go to: **Control Panel > System:**



2. From the Control Panel Home menu, click **Advanced system settings:**



3. Select the **Advanced** tab. In the **Performance** category, click **Settings:**



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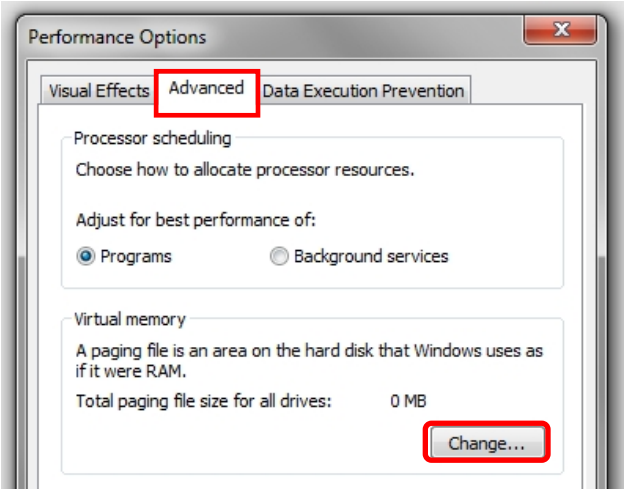
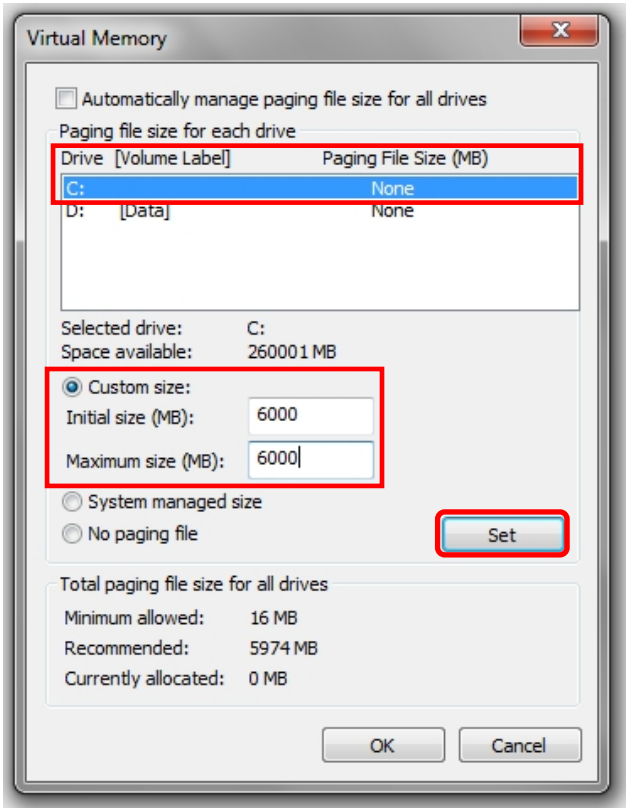
4. Select the **Advanced** tab. In the **Virtual memory** category, click **Change:**



5. Ensure **Automatically manage paging file size for all drives** is **deselected** and **Drive [Volume Label] C:** is highlighted:

6. Select **Custom size:**, and then **enter 6000** in both the **Initial** and **Maximum** size entry fields as illustrated below: When complete, click **Set:**



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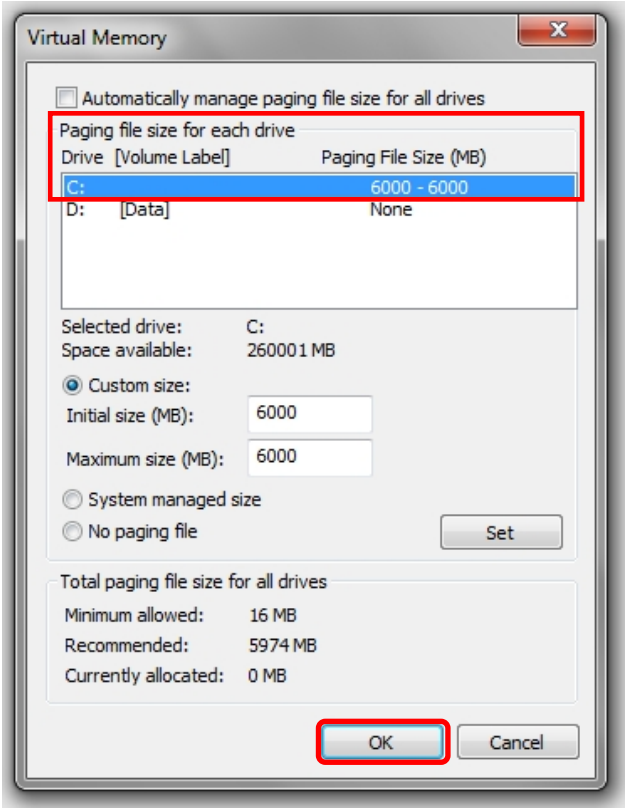
7. Ensure that the **Paging File Size (MB)** indicated for **C:** is displayed as **6000 - 6000:** Click **OK:**



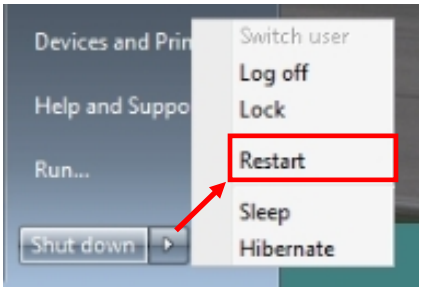
Note:

The recommended page file size of 6000 MB allows for 2GB of additional RAM that may be added.

6.1.5 – Restart Windows

A restart is required to complete automatic Windows configurations on certain devices. Proceed as follows, and note the **Windows 7 Shut down** and **Restart** routines for future reference:

1. Close all windows and **Restart** the device. Go to: **Windows (Start)** > > **Restart:**



☐ **Windows 7 Startup & Initial Setup steps complete – Proceed to Section 6.2 – Page 17.**

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6.2 – Windows Update Settings & Internet Explorer Version Requirement

The **Windows 7** version installed here includes **Internet Explorer (IE) version 9.**

IMPORTANT!

ODIS Service and its web-based Infomedia functions are optimized for Windows 7 and IE9. The automatic download and installation of IE10 and IE11 from a Windows update must be prevented!

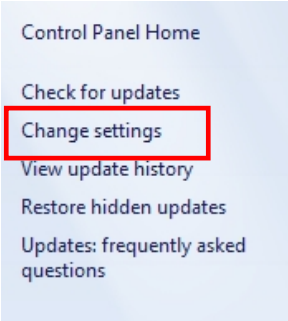
The installation of IE10 or IE11 results in impaired ODIS Service web-based services functions.

The default setting for Windows updates is to automatically download files when a network connection is present, and then prompt the user to install them. As a first step to prevent the download and installation of Windows updates that include IE10 and IE11, change the default setting to (manually) check for updates and prompt the user to choose the updates as specified below. Separate instructions on managing Windows updates and disabling IE updates are covered in **Section 6.7.**

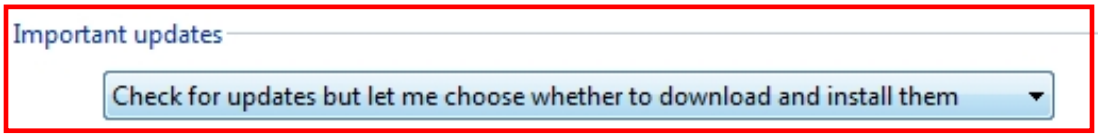
Perform the following configuration **BEFORE setting up the network connection:**

1. Go to: **Windows (Start)** **> Control Panel > Windows Update:**

2. From the Control Panel Home menu, select **Change settings:**



3. Select the **"Check…** & **…choose"** update method from the **Important updates** selection dropdown:



4. Click **OK** (at bottom frame):

5. **Close** the **Control Panel** window.

☐ **Windows Update Settings steps completed – Proceed to Section 6.3 – Page 18.**

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Note:

*Before proceeding with **Sections 6.3** through **6.5**, have the additional documentation specified in Section 2.0 – Page 3 on hand.*

6.3 – Network Setup

6.3.1 – Set Computer Name

If more than one VAS diagnostic device is connected to the dealership network, each device must be assigned a different computer name.

Assign the computer name before proceeding. For detailed instructions refer to **Service Information – Diagnostic Device Hardware & Windows** document title: **VAS Diagnostic Device Computer Name Builder**

6.3.2 – Enable Network Connections

For dealership networks using **DHCP** for Internet access, no network connection configuration is necessary (the device default setting is DHCP). If the dealership network uses DHCP for Internet access, skip to **Section 6.3.3** below.

For networks using **Static IP** configurations for Internet access, the IP configurations must be renewed by manual entry of the dealership-specific IPs. Ask your dealership systems administrator or IT professional for details and assistance.

If the device is to be used over a wireless LAN connection, switch the **wireless switch** to the **ON position** and perform the required wireless configuration at this time. Ask your dealership systems administrator or IT professional for details and assistance.

ATTENTION!

ODIS Service software functions require open network connections. Open access must be enabled on an individual basis for each diagnostic device. For details, refer to *Service Information – ODIS Service* document title: *Required Open Internet Addresses (URLs)*

6.3.3 – Reinstall Netviewer

1. Launch **Internet Explorer** and logon to **ServiceNet**.
2. Navigate through **Vehicle Diagnostics > Diagnostic Device Hardware & Windows > Software.**
3. Right click / select the link: **Netviewer one2one – Telediagnosis Software**.
4. **Save** file to Windows desktop.

☐ **Network Setup steps completed – Proceed to Section 6.4 – Page 19.**

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6.4 – Reinstall & Configure Offboard Diagnostic Information System Service (ODIS Service) Diagnostic Software

1. Use the diagnostic device to **submit a new license request** prior to software installation and configuration.

For detailed instructions, refer to **Service Information – ODIS Service** document title: **ODIS Service Installation Phase 1 – Device Preparation & License Request Instructions**

☐ ODIS Service Installation **Phase 1** steps completed.

2. When the new license file is received via email and saved to a USB flash drive, reinstall and configure ODIS Service.

For detailed instructions, refer to **Service Information – ODIS Service** document title: **ODIS Service Installation Phase 2 - Software Installation & Configuration Instructions**

Refer to the **Phase 2** document sections describing **New Installations.**

☐ ODIS Service Installation **Phase 2** steps completed.

3. Request and import a new ODIS Service security certificate.

For detailed instructions, refer to **Service Information – ODIS Service** document title: **ODIS Service Installation Phase 3 – Security Certificate Request & Installation Instructions**

☐ ODIS Service Installation **Phase 3** steps completed.

4. Setup ODIS Service Infomedia.

For detailed instructions, refer to **Service Information – ODIS Service** document title: **ODIS Service Infomedia Setup Instructions**

☐ **All ODIS Service Reinstallation Phase + steps completed. Proceed to Section 6.5 – below.**

6.5 – VAS 5054A Transmitter Head Setup

1. Perform the Windows Bluetooth and EDIC configuration for **wireless** operation.

For detailed instructions, refer to **Service Information – Diagnostic Device Hardware & Windows** document title: **VAS 5054A Transmitter Head - Bluetooth & EDIC Configuration – ODIS Service Only**

2. Perform the UBS configuration for **cabled** operation.

For detailed instructions, refer to **Service Information – Diagnostic Device Hardware & Windows** document title: **VAS 5054A Transmitter Head - USB Configuration – ODIS Service Only**

☐ **VAS 5054A Transmitter Head setup steps completed.**

☐ **Windows 7 and ODIS Service Installation completed.**
Supplementary instructions: Refer to Section 6.6 – Page 20 and Section 6.7 – Page 21.

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6.6 – Supplementary Setup & Function

Depending on the updated diagnostic device's previous preparation level and/or dealership requirements, the following supplementary setup procedures **may or may not** be required. Review and confirm as applicable.

6.6.1 – VAS 6356 Test Instruments Box - Configuration

If a VAS 6356 Test Instruments Box was previously configured for use with the updated device, it must be connected and the initial configuration repeated.

For detailed instructions, refer to **Service Information – Diagnostic Device Hardware & Windows** document title: **VAS 6356 Test Instrument Box – Software Configuration – ODIS Service Only**

☐ Completed ☐ Not applicable

6.6.2 – Printer Driver Reinstallation

If a USB (cabled) or wireless (WLAN) printer was previously configured for use with the updated device, the necessary driver installation and/or configuration must be repeated.

Obtain the printer driver CD where applicable and refer to the installation documentation supplied with the printer. Ask your dealership systems administrator or IT professional for assistance if necessary.

☐ Completed ☐ Not applicable

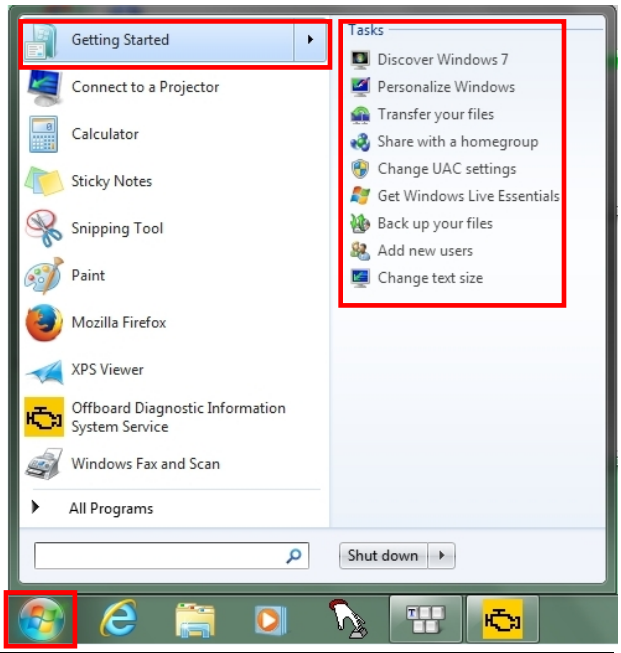
6.6.3 – Reinstall Antivirus Software

Reinstall the antivirus software as may be required by the dealership IT policy. Ask your dealership systems administrator or IT professional for assistance if necessary.

☐ Completed ☐ Not applicable

6.6.4 – Windows 7 Familiarization

If Technician users are not familiar with Windows 7 features, navigation and functions, we recommend they read the various information resources included with the software.
Go to: **Windows Start > Getting Started > Discover Windows 7** …as well as the additional topics listed in the Getting Started dropdown:



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6.7 – Windows 7 Updates

6.7.1 – General Information

All VAS diagnostic devices must be kept up-to-date with the latest Windows security and vulnerability updates. However, dealership service or IT personnel tasked with maintaining both ODIS Service and Windows updates **must be aware of the following, and act accordingly:**

- The initial package of important Windows updates available for this Windows 7 installation may take considerable time to install and download (typically between 60 – 120 minutes, device, content and bandwidth dependent). As a result, we recommend that the initial selection, download and installation of Windows updates **be managed so that the update process takes place outside of workshop service hours.**

  Instructions on how select and initiate Windows updates follow in the **Managed Windows Update** section below.

- **Under no circumstances** are **Internet Explorer (IE) versions 10** or **11** to be installed as part of the Managed Windows Update process. Refer to **Section 6.2 – Page 17** for details.

  Instructions on how to deselect IE10 and IE11 from Windows update listings follow in the **Managed Windows Update** section below.

ATTENTION!

Please inform all service personnel that under no circumstances are IE10 or IE11 updates to be downloaded and installed on devices updated with Windows 7!

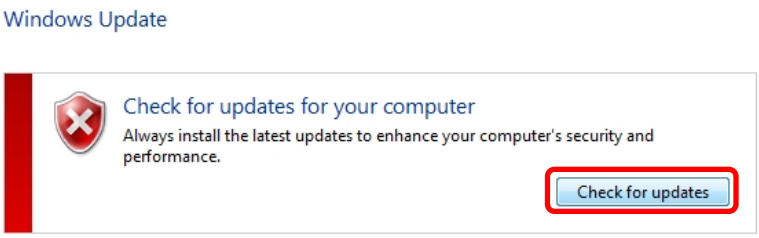
6.7.2 – Managed Windows Update Procedure

Prerequisites:

- ☐ *Diagnostic device removed from service, after hours etc.*
- ☐ *Diagnostic device with active network connection.*

1. Go to: **Windows (Start)** **> Control Panel > Windows Update:**

2. Click **Check for updates:**



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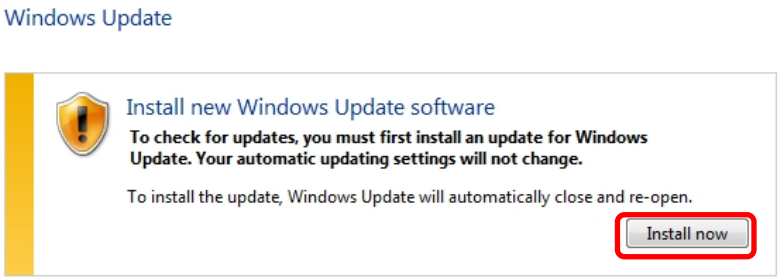
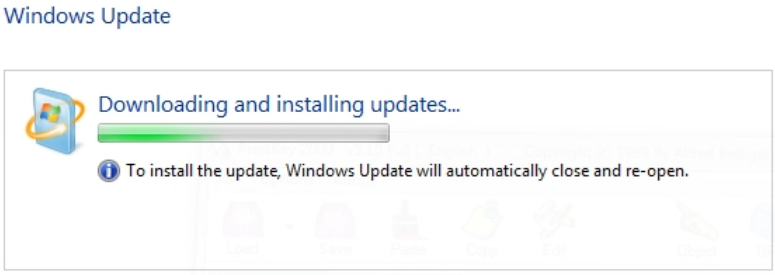
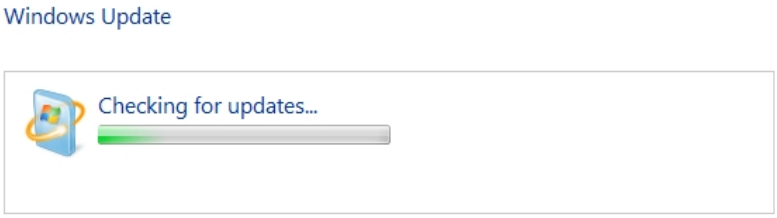
3. The first time after a Windows 7 installation, an update prompt for **Windows Update** may or may not appear. If so, click **Install now:**



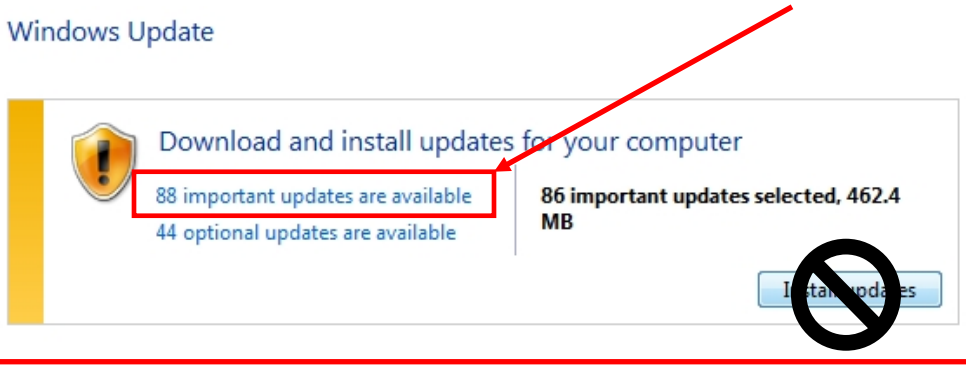
4. **Wait** while an update for Windows Update is installed:



5. After the update closes and re-opens, **wait** while the system checks for updates:



6. When the results are displayed, click the **XX important updates are available** link:



Note:

*The number of updates illustrated above **is for reference only!** The number of available updates will always vary depending on type of device and date when available updates are checked.*

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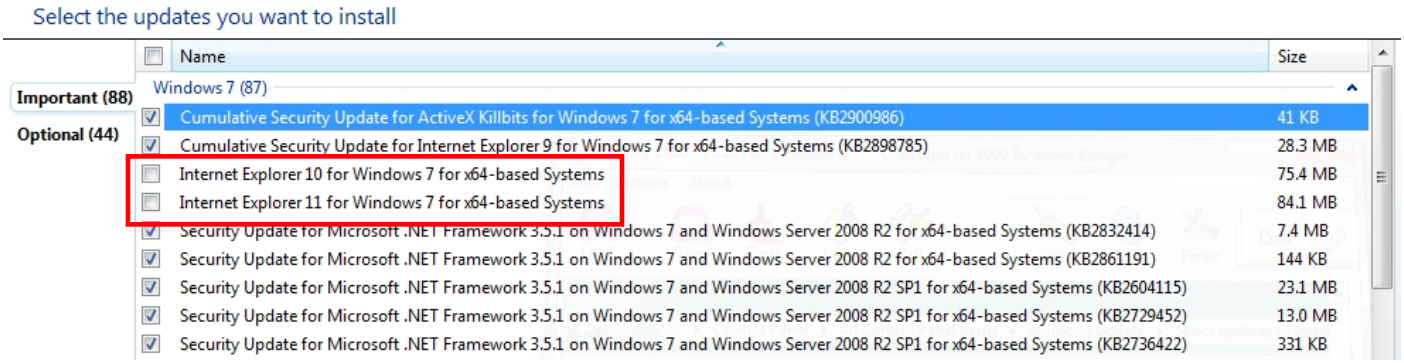
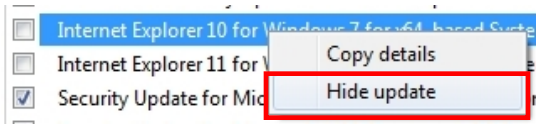
7. **Deselect** the **Internet Explorer 10** and **Internet Explorer 11** updates from the update listing:

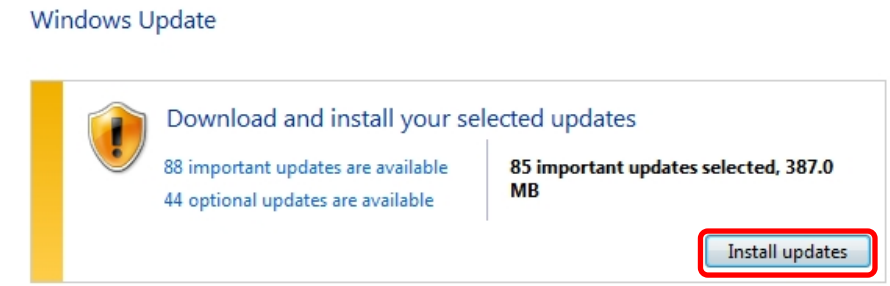


8. To prevent the IE updates from reappearing, **right click** the IE10 update and select **Hide update** from the dropdown. **Repeat** with the IE11 update:



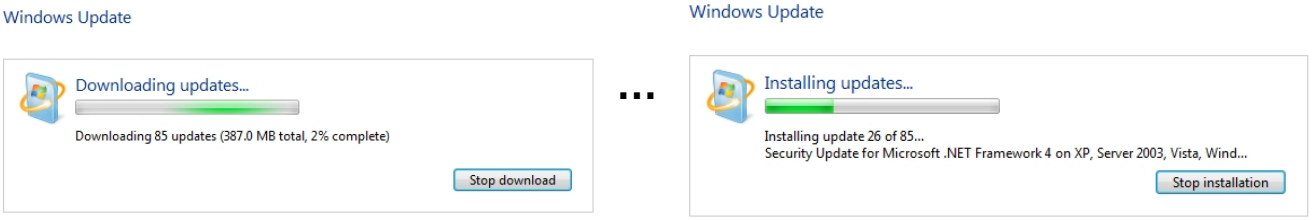
9. Click **OK** (at bottom frame):

10. Click **Install updates:**



11. Accept any **Microsoft License Terms** if prompted, and then click **Finish.**

12. **Wait** while the updates are downloaded and installed (no user intervention is necessary):



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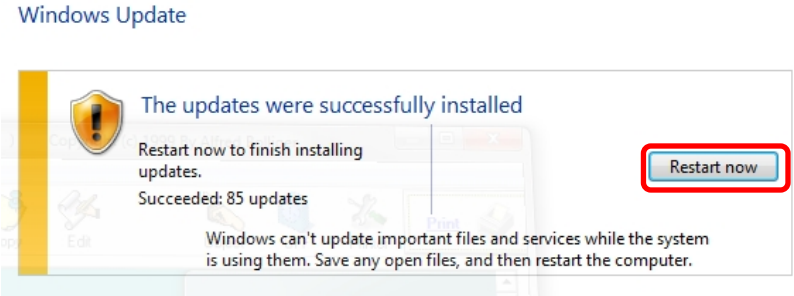
13. Click **Restart now:**



- Additional Windows update configurations are performed during the shut-down and restart routine.
- On completion, the device boots to the Windows desktop, and an information prompt on the installed updates appears.

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