



Volkswagen

Service Information

Diagnostic Device Hardware & Windows®

Number: VHW-17-10

Subject: VAS 6160C Diagnostic Tablet – Unpacking and Setup
Instructions

Date: Apr 26, 2017

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1.0 – Additional Documentation

These unpacking and setup instructions contain references to **Service Information (SI)** documents with additional instructions needed before placing the tablet 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:

Vehicle Diagnostics SI Document Subcategories:	Document Titles:
ODIS Service	☐ <i>Installation Phase 1 – Preparation, License & Security Certificate Process Instructions</i> ☐ <i>Installation Phase 2 - Software Installation & Configuration Instructions</i>
Diagnostic Device Hardware & Windows	☐ <i>VAS Diagnostic Device Computer Name Builder</i> ☐ <i>VAS 6154 Diagnostic Interface – Introduction Guide</i> ☐ <i>VAS 6154 Diagnostic Interface – Initial Setup Guide</i> ☐ <i>VAS 6154 Diagnostic Interface – Startup Guide</i>



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2.0 – Safety Instructions

2.1 – Explanation of Symbols

Symbols with the following meanings are used in the safety instructions of the Operating Manuals, the startup/unpacking instructions and other documentation provided, in screen displays on the tester during operation and on the products themselves:



Warning!

*Text with this symbol contains information regarding your safety and how you can reduce the risk of serious or fatal injuries. The **Warning** symbol deserves special attention with respect to your safety.*



Caution!

*Text with this symbol contains information on how you can prevent damage to the vehicle and to the device. The **Caution** symbol informs you that failure to comply with such information can result in damage to the vehicle and/or tester.*



Note

*Text with this symbol contains additional, useful information. The **Note** symbol indicates important information on the product, its use and other items.*

2.2 – Reference to Additional Safety Instructions

The following contains the general safety instructions that apply to all VAS diagnostic console, tablet and tablet devices. Additional safety instructions can be found in the applicable device Operating Manuals. It is thus important to read the device Operating Manual prior to use. Safety instructions may also appear on the screen of the tester and displayed by the diagnostic software. Heed all instructions displayed.

2.3 – Important Safety Instructions



Warning!

1. Read all instructions.
2. If the power cable or unit is damaged, the equipment may be not used until inspected by a qualified technician.
3. Do not allow any cables or leads to drape over the edges of tables, benches or stands. Prevent hot parts or rotating fans from coming into contact with cables or leads.
4. Use of an extension cable is prohibited. When performing tests, only the specified cables and leads may be used.
5. Always unplug the equipment when it is not in use. Never unplug the power cable from the outlet by pulling on the cable. Grasp the connector to disconnect the equipment from the power outlet.
6. The tester may not be used in the vicinity of open fuel containers, as there is otherwise the risk of fire or explosion.
7. When you are working on internal combustion engines, ensure adequate ventilation. Otherwise, there is a risk of poisoning.

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Warning!

8. Use the equipment only in the manner described. Use only the accessories listed by the manufacturer.
9. Risk of explosion. The equipment has spark-generating components inside and for this reason must not be used in areas with flammable vapors. The equipment should be operated at a height of at least 460 mm (18 inches) above the floor, since gasoline and other possible vapors collect at floor level.
10. The equipment complies with Safety Class 1 when under power and is equipped with a safety tested power cable. Connect the equipment only to electrical service or power outlets with a grounded protective conductor (TN network).
11. Fasten the diagnosis tablet securely to the rear seat of the vehicle during test drives. A second person on the rear seat must operate the diagnosis tablet. For safety reasons, operation on the front seat and without being fastened securely is prohibited (e.g. risk of triggering the airbag).
12. Electric ignition systems have voltages of up to approx. 30 kV. General Safety guidelines for workshops are to be observed at all times.
13. Opening of the tester, including its accessories, by unauthorized personnel can result in serious risk to the individual and the equipment.
14. If the power cable, a diagnostic or measuring cable, the tester or any other accessory under power is damaged, their use is prohibited until a qualified technician has given approval to do so.
15. If you will not be using the equipment for a longer period of time, please switch it off at the on/off switch and disconnect it from the power if the rechargeable battery is charged. Switching off at the on/off switch alone does not ensure that the power supply, charging circuit or any connected accessory has been disconnected from power.
16. Data transmission lines should not be connected or disconnected during a thunderstorm nor should the equipment itself be operated.

2.4 – Safety Instructions for Wireless Units



Warning!

1. No antenna modifications, e.g. relocation or use of other antennas or transmitters, are permitted on units approved for wireless operation.
2. Do not use a portable transmitter (e.g. wireless network (WLAN) or Bluetooth device) in the vicinity of unshielded detonator caps or in an explosive atmosphere, unless the device has been modified in a way that permits such use.
3. Information regarding Bluetooth and W-LAN approval in various countries may be found in the diagnostic software operating manual.

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Service Information



Caution!

1. Line voltage fluctuations and deviations exceeding the permissible tolerance can result in malfunction and damage to the diagnostic device.
2. When operating the VAS 6160C in a workshop cart, ensure that the power adapter has adequate ventilation. Remember that the charging circuit is operating even when the tester is switched off. This is also true in the power saving mode.
3. When connecting other make vehicles:
 - The VAS 6160C diagnostic tablet was developed and specified for vehicles manufactured by the Volkswagen Group. Connecting the tester or remote diagnosis head interface directly to a vehicle from another manufacturer, may cause damage to the vehicle's electrical system.
 - If attempting to use the generally applicable OBD functions for self-diagnosis of other make vehicles, the OBD adapter cable VAS 5052/16 should be connected between the diagnostic head and diagnosis connection in the vehicle.
4. When handling the rechargeable battery:
 - The rechargeable battery should be replaced only by properly trained personnel.
 - Never short-circuit the rechargeable battery.
 - Never throw the rechargeable battery into a fire.
 - Dispose of/recycle the rechargeable battery only when discharged and in accordance with local regulations.

3.0 – Important Information

3.1 – Shipping Damage / Incomplete Shipment

Please check the following items when unpacking/starting your VAS 6160C:

1. Packaging damaged:
 - Have the damage confirmed in writing on the shipping documents by the delivery service and report it immediately.
2. Packaging in good condition, but contents damaged:
 - Report damage to Snap-on immediately.
3. Incomplete shipment:
 - Please check the contents list as per instructions in **Section 5.0 – Contents of Carton** to determine whether your shipment is complete. Report issues to Snap-on immediately.

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Service Information

3.2 – Temperature Equalization



Caution!

If the VAS 6160C is delivered during winter months, efforts must be made to prevent the formation of condensation within the device. For this reason we recommend the device be left unattended at room temperature for approximately 3 hours prior to connecting/switching on for temperature compensation purposes.

3.3 – Safety and Startup Instructions

Please read the safety and startup instructions carefully prior to startup.

3.4 – Purchase Documentation

Please retain your shipping documents as proof of purchase and delivery.

3.5 - Additional Instructions



Note

- *These unpacking and setup instructions include cross-references to other **Service Information** documents with additional instructions needed prior to placing the tablet into service. These additional documents are all posted on **ServiceNet**.*
- ***If you have not already done so, be prepared to locate the cross-referenced documents!***
- *Print the documents if necessary and perform the necessary instruction steps **before** continuing with the remaining instructions in this document.*
- ***Discard all printed copies of all documents, including this one, after use.** Revised versions may be issued at any time. Always check ServiceNet for the latest versions.*
- *Be aware that as of the publication date of this document, new VAS 6160C are shipped with **Windows 7 operating systems**.*

4.0 – Unpacking Instructions

The VAS 6160C is delivered with the tablet unit, docking station and VAS 6154 Diagnostic Interface Kit.

1. Unpack all parts; then remove the protective film from the tablet and the docking station
2. Dispose of the packaging material in accordance with local regulations.
3. Check the contents for completeness as instructed in **Section 5.0 - Contents of Carton**.
4. In case of incomplete shipment, report the issue immediately to Snap-on (SBS).



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5.0 - Contents of Carton

Confirm your VAS 6160C shipment contains the following items.

1. VAS 6154 Diagnostic Interface Kit
2. VAS 6160C Tablet
3. Docking Station with CD/DVD Drive
4. A/C Power Adapter
5. Stylus
6. Operating Manuals for the Panasonic CF-D1 tablet and VAS6154 Interface



Service Information

6.0 – Install Rechargeable Battery Pack



Caution!

When handling the rechargeable battery:

- The battery should be replaced only by properly trained personnel.
- Never short-circuit the battery.
- Never throw the battery into a fire.
- Dispose of/recycle the battery only when discharged and in accordance with local regulations.

Remove battery from its packaging and install as follows:

1. On the left-hand underside of the tablet, slide the battery compartment lock to the right and downward as illustrated **-arrows-**, then open the battery compartment cover:



2. Slide the battery pack into the compartment **-arrow-** until it connects firmly with the contacts:



3. Close battery compartment cover and re-secure the battery compartment cover/lock.



Caution!

Ensure battery compartment cover is locked at all times. Otherwise, the battery pack may fall out during use or transport.

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7.0 – Connecting to Power

The tablet is connected to power either via the docking station (port replicator) connection to the A/C power adapter, directly via the A/C power adapter or run from the internal rechargeable battery pack.



Caution!

- The A/C power adapter includes a country-specific power cable (UL-approved or CSA-approved, oil-resistant power cord).
- Operation on ungrounded or impedance-grounded electrical networks (IT electrical networks) is prohibited.
- Use only the original Panasonic CF-D1 power adapter. For additional information (part number etc.), refer to the CF-D1 Operating Manual.

8.0 – Windows 7 Startup & Initial Setup

8.1 – Preparation

Initial startup must be performed with the **tablet removed from the docking station (port replicator)** and the **wireless switch** in the **OFF** position. Additional information can be found in the Panasonic CF-D1 Operating Manual.

1. On the upper left-hand side of the tablet, open the access cover marked “SC / EX”. If necessary, slide the wireless operation switch to the **OFF** position **-arrow-**:



Connect the A/C power adapter cable to a 115V A/C outlet and the **DC IN 15.6V** port **-arrow-** on the lower right-hand side of the tablet:





Service Information

8.2 - Interface Connections

For additional information, on interface connections, refer to the Panasonic CF-D1 and docking station (port replicator) Operating Manuals.

8.3 - Switching the Unit On and Off

Switch on the tablet by pressing the on/off button for approximately 1 second. The tablet boots and displays a series of automatic setup, registry and service screens followed by the initial Windows setup screen. No user intervention is required during this time.



Caution!

- When switching the tablet off after normal use, **DO NOT press and hold the on/off button for longer than 5 seconds!** This executes a forced shutdown which may result in hard drive faults.
- To switch off the tablet after normal use, click the Windows “**Start**” symbol from the desktop and then select “**Shut down**”.

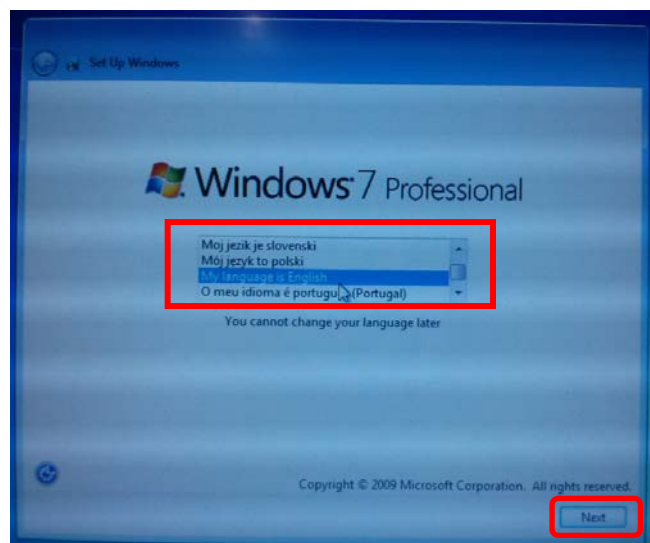
8.4 – Windows 7 Professional Initial Setup

Note:

*The initial **language selection** and **license agreement** screens may or may not appear after initial startup. If prompted, select the language carefully to avoid having to perform a recovery!*

After the initial Windows setup screens are displayed...

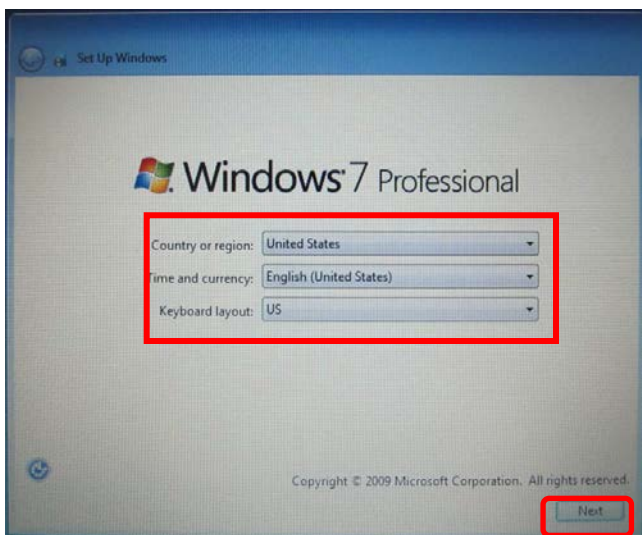
1. If the following Windows setup screen appears, **carefully scroll down** and select **My language is English** and click **Next**: ...otherwise, skip to Step 2.



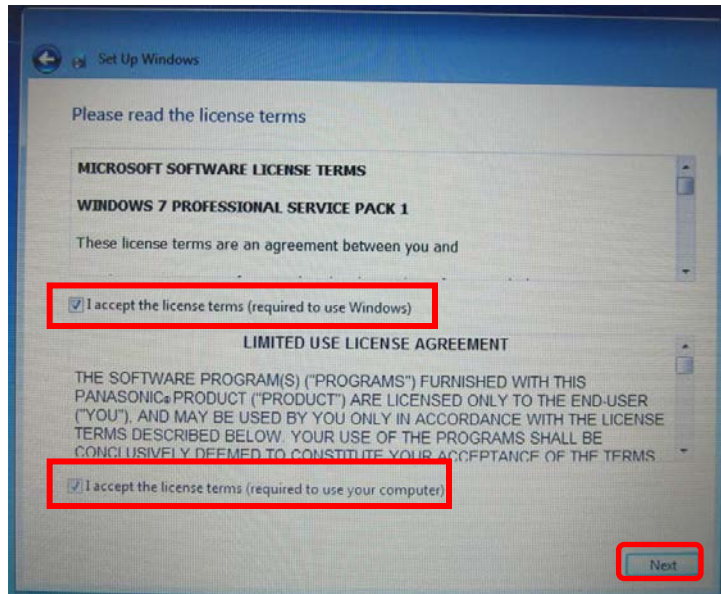


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2. **Confirm** the regional settings, time/currency and keyboard layout as illustrated, and then click **Next**:

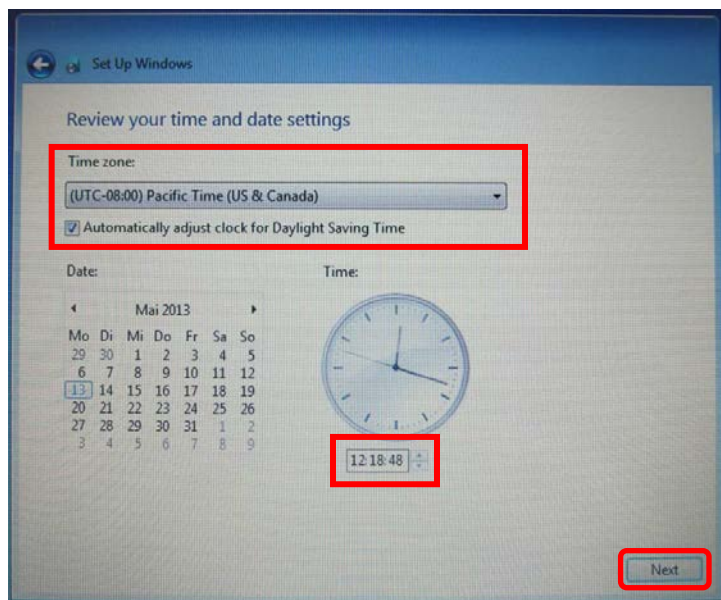


3. **If the license terms and conditions are displayed**, accept by checking the appropriate boxes and click **Next**: ...otherwise skip to Step 4.



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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.

8.4.1 – Delete Non-Applicable Information

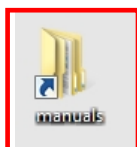
The Windows 7 desktop includes documents that are not applicable to the -US/CDN- market. **Please delete these documents** as follows:

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**:

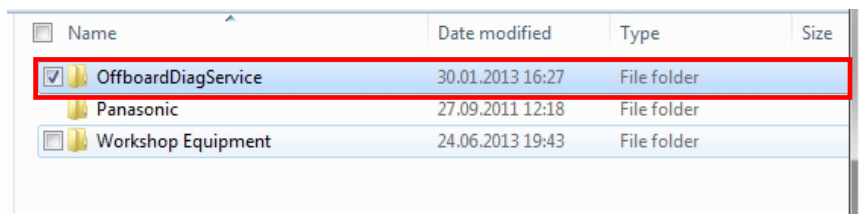


2. **Right-click** a shortcut icon, and then select **Delete** from the dropdown.
3. When prompted to confirm file delete, click **Yes**. Repeat for the remaining icon.
4. From the Windows desktop: **Open** the **Manuals** folder:



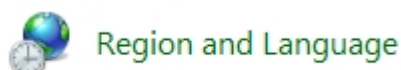
Service Information

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

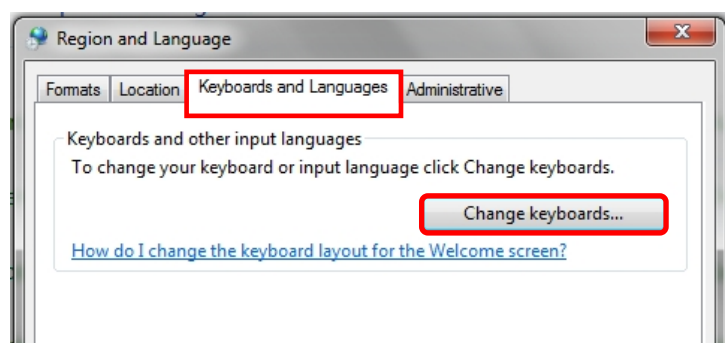


8.4.2 – Confirm Keyboard Language

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



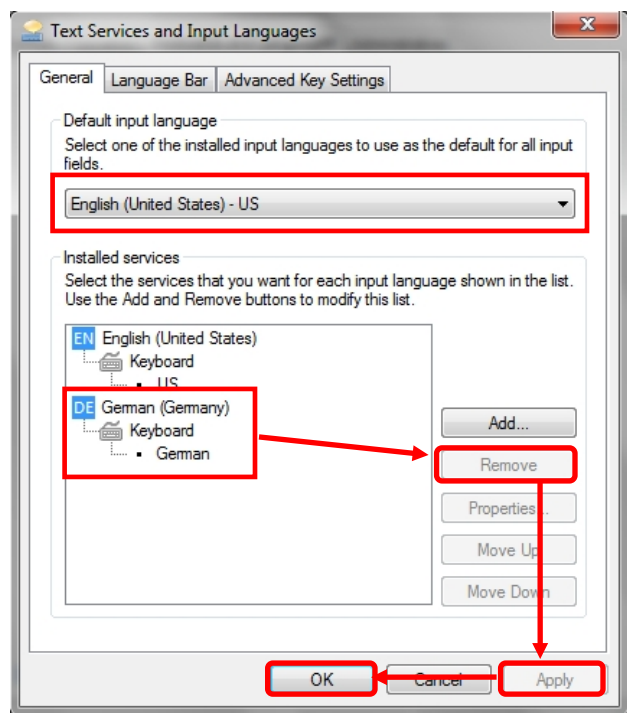
2. **Select the Keyboards and Languages tab.** Click **Change Keyboards...**:



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**:



Service Information



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

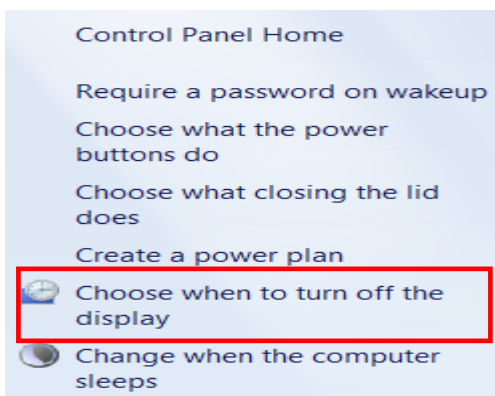
8.4.3 – Device Power Management

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:**

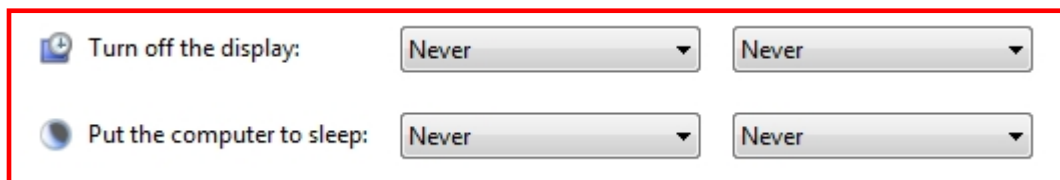


2. From the Control Panel Home menu, select **Choose when to turn off the display:**

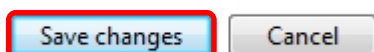


Service Information

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



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

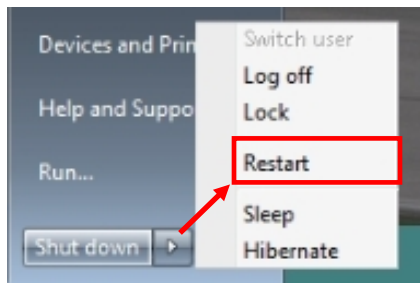


5. **Close** the power options window and return to the **Control Panel** menu.

8.4.4 – Restart Windows

A restart is required to complete automatic Windows configurations. 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**:



8.5 – Docking Station (port replicator) Connection

The tablet and A/C power adapter can now be transferred to the docking station (port replicator).

The connector array for the docking station on new VAS 6160C tablets is covered to prevent damage during shipping and initial handling.

Prior to parking the tablet in the docking station for the first time, slide protective cover **-1-** upwards - **arrow-** to expose the connector array:

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We recommend connecting a USB mouse and keyboard for the remaining setup.



Caution!

Whenever the tablet is separated from the base station (port replicator) for extended periods, we recommend closing the connector array cover to prevent damage.

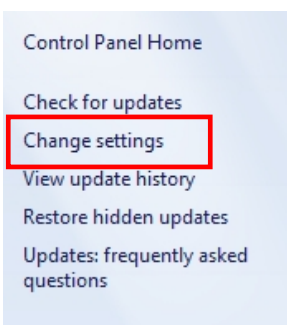
8.6 – Windows Update Settings & Internet Explorer Version Requirement

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



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:

Service Information

Important updates

Check for updates but let me choose whether to download and install them ▼

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



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



Note

*Before proceeding with **Sections 9.0 through 11.0** have the additional documentation specified in **Section 1.0 – Page 1** on hand.*

9.0 – Network Setup

9.1 – 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**

9.2 – Enable Network Configurations

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 9.3** 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.

9.3 – Additional Information

Before proceeding to use the VAS 6160C, please read the "**Panasonic CF-D1 Series Operating Manual**", containing additional important information regarding the unit, its accessories and its care.

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10.0 – Install Offboard Diagnostic Information System Service (ODIS Service)

Dealerships are responsible for requesting an ODIS Service license, and then installing and configuring the latest “installation version” of ODIS Service.

A security certificate to enable vehicle Software Version Management (SVM) and module adaptations must also be requested and installed, and the Infomedia setup procedure performed.

For detailed instructions, refer to **Service Information - ODIS Service** document titles (in order of use):

- ☐ *Installation Phase 1 – Preparation, License & Security Certificate Process Instructions*
- ☐ *Installation Phase 2 - Software Installation & Configuration Instructions*

11.0 – VAS 6154 Diagnostic Interface Setup

11.1 – General information

The VAS 6154 Diagnostic Interface is powered by the vehicle Data Link Connector (DLC) when connected, and communicates with the tablet and the diagnostic software via Wi-Fi or USB cable.

For detailed instructions refer to **Service Information - Diagnostic Device Hardware & Windows** document titles:

- ☐ *VAS 6154 Diagnostic Interface – Introduction Guide*
- ☐ *VAS 6154 Diagnostic Interface – Initial Setup Guide*
- ☐ *VAS 6154 Diagnostic Interface – Startup Guide*

11.2 – VAS 6154 USB (cabled) Operation

If the tablet is used to perform **Software Version Management (SVM)** flash procedures or **ant-theft immobilizer adaptations**, a USB (cabled) connection must be used between the VAS 6154 and the tablet. This ensures an uninterrupted data stream.

Prior to first use with a USB cable, the tablet and transmitter head must be configured for USB (cabled) operation.

For detailed instructions refer to **Service Information – Diagnostic Device Hardware & Windows** document title: **VAS 6154 Diagnostic Interface – Initial Setup Guide**

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Notes

- For USB (cabled) connection of VAS 6160C to VAS 6154, the supplied USB cable is of the **Rugged USB 2.0** type. A circular, secure (locked) connection is used.
- On the lower right-hand side of the tablet, open the cover for the Rugged USB 2.0 port and connect by lining up the two dots and inserting the connection straight into the port **-arrow 1-**:
- To disconnect, release the connector lock **-A-** by sliding the locking collar away from the tablet **-arrow 2-**:



12.0 – Windows 7 Updates

12.1 – 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.

12.2 – Managed Windows Update Procedure

Prerequisites:

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

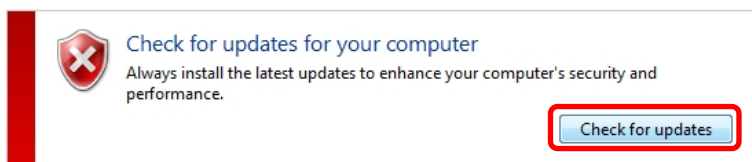
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1. Go to: **Windows (Start)** > **Control Panel > Windows Update:**



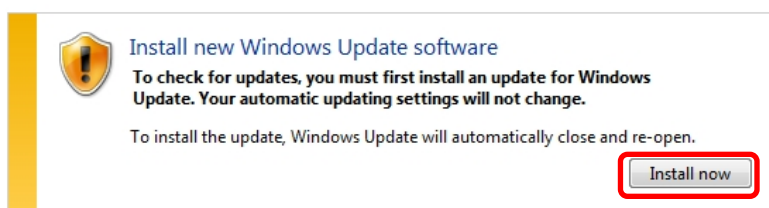
2. Click **Check for updates:**

Windows Update



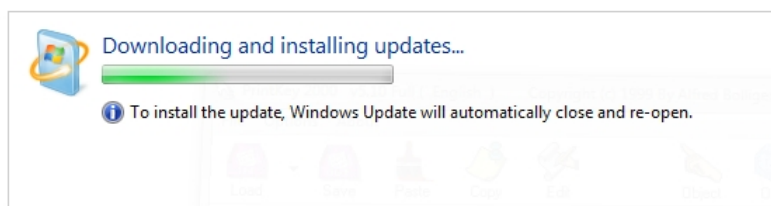
3. The first time after a Windows 7 installation, an update prompt for **Windows Update** may or may not appear. If so, click **Install now:**

Windows Update



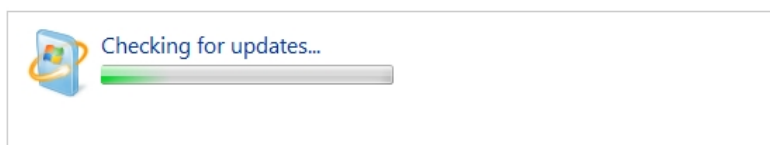
4. **Wait** while an update for Windows Update is installed:

Windows Update



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

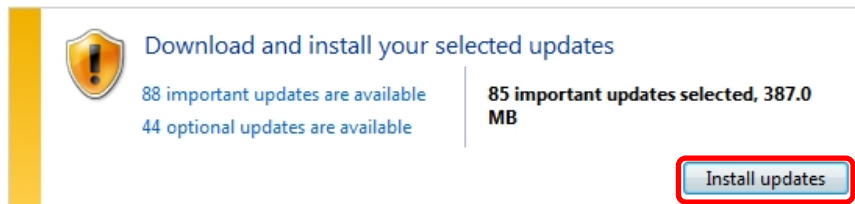
Windows Update



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6. Click **Install updates**:

Windows Update



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

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

- 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.

13.0 – Warranty Registration

A formal warranty registration process for new tablets for warranty coverage is no longer necessary. The device serial number was automatically registered with the US/CDN market service provider for warrantable repairs at the time of purchase.

In case of warranty repair requests, please provide the serial number of the device to the **VWGoA DTSS consultant** at the toll-free number listed below.

14.0 – Malfunctions and Support

Should performance or functional issues occur after placing the device into service, please attempt to identify and localize as accurately as possible. Try to determine if the symptom is a result of the Panasonic CF-D1 tablet **hardware**, Windows **operating system**, ODIS Service **software** or dealership **network** (for internet connectivity). Then proceed as follows:

- **For tablet hardware and Windows system issues**, consult the information in the "Troubleshooting" chapter in the Panasonic CF-D1 Operating Manual.
Also review the latest **Service Information** and **FAQ** documents in the **Diagnostic Device Hardware & Windows** document subcategory of the **Vehicle Diagnostics** section in **ServiceNet**. The issue may be previously known and a resolution already published.
- **For ODIS Service diagnostic software functional issues**, review the latest **Service Information** and **FAQ** documents in the **ODIS Service** document subcategory of the **Vehicle Diagnostics** section of **ServiceNet**. The issue may be previously known and a resolution already published.
 - If it is not possible to resolve the issue with the aid of the Panasonic CF-D1 Operating Manual or ServiceNet documents, contact:

VWGoA DTSS: 1-888-896-1298