OPTIMIZING Win® 7 AND WIN® EMBEDDED FOR ALL SNAPON ALIGNMENT SYSTEMS

GENERAL OVERVIEW:

This set of instructions should be used on all Snapon Alignment systems running Windows® 7 before replacing any PC in the field. These instructions should be used anytime an alignment system hard drive is formatted and reinstalled with Windows® 7. Failure to optimize the alignment system can and will cause unexpected results within the alignment software. See steps 3c & 12 for changes if the system is running Windows Embedded (WES7)

ACTION TO BE TAKEN:

1. Click on <START> and Right click on “Computer” and select “Properties”
   a. Under “Windows Edition” check to see if Windows® SP1 is installed. If not it must be installed before continuing. This Service Pack can be found on the Microsoft website by searching KB976932. Select “Windows6.1 - KB976932 - X86.exe”.

   ![Windows System Properties](image)

   ![Windows System Properties](image)
2. Click on <START> and start typing “Adjust the appearance and performance of Windows” in the Search Field.
   a. Select “Adjust the appearance and performance of Windows”.
   
   ![Image of Adjust the appearance and performance of Windows]

   b. Select the radio button “Adjust for best Performance” click on <APPLY> and <OK>.

   ![Image of Performance Options]

3. Click on <START> and type “Power Options” in the Search Field.
   a. Select “Power Options”

   ![Image of Power Options]
b. Check “Balanced (recommended)” radio button

![Power Options Window]

- Balanced (recommended)
- Automatically balances performance with energy consumption on capable hardware.

Click “Change plan settings”

- Power Saver
- Saves energy by reducing your computer’s performance where possible.

Show additional plans

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<th>Power Options</th>
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c. Click on “Change Plan Settings”

- “Turn off the Display” = NEVER
- “Put the Computer to Sleep” = NEVER

![Edit Plan Settings Window]

WIN7 (Balanced)

WES7 (High Performance)

d. Click on “Change advanced power settings” change the following settings

- Hard Drive = NEVER
- Sleep
  - Sleep = NEVER
  - Hibernate After = NEVER
  - Allow Wake Timers = DISABLED (WES7)
- Allow Hibernation = OFF
- USB Settings - USB Suspend = (NEVER WIN7) (DISABLED WES7)
- Display - Turn off Display = NEVER

Click <APPLY> and <OK>

4. Click on <START> and type “View recommended Actions to keep Windows...”
running smoothly" in the Search Field.

a. Select "View recommended Actions to keep Windows running smoothly".
   • Click "Change Action Center Settings"
     Un-Check the following
     □ Windows Update
     □ User Account Control Settings
     □ Windows Backup
     □ Check for Updates
     □ Windows Troubleshooting

5. Select - "Change User Account Control Settings"
   • Move the slider to "Never Notify" and click <OK>

EXIT "Action Center" by clicking the [X] in the upper right hand corner.
6. Click on <START> and type “System” in the Search Field.
   a. Select “System”
   b. Click <Device Manager>
      • Right Click “USB Root Hub” and Select “Properties” Note: Perform same action items for “Generic USB Root Hub” if applicable.
      • Select the “Power Management” tab.
         * Un-check “Allow the computer to turn off this device”. Duplicate this process for each “USB Root Hub”

   Exit the Device Manager.

7. Right Click on the Taskbar and select “Properties”
   a. Change “Taskbar Appearance” to “Auto-Hide” and click <Apply>.

8. Right Click on the Desktop and select “Personalize”
   • Select “Screen Saver” if is not set to none. Select “NONE” and click <Apply> and <OK>.
9. Click on <START> and type “Defragment” in the search field.
   a. Select “Disk Defragmenter”
      • Click on “Configure Schedule”
        * Un-check “Run on Schedule” click <OK> and <Close>

10. Click on <START> and type “Ease of Access Center” in the Search Field.
    a. Select “Ease of Access Center”
    b. Click <Make the Keyboard Easier to use>
    c. Un-Check “Turn on Sticky Keys” click on <Apply> and <OK>
11. Click on <START> and type "**Keyboard Settings**" in the Search Field. "The following change addresses problems with the moveable boom on an image aligner only".

   a. Select "**Keyboard**".

   ![Keyboard Settings Image](image1)

   b. Slide the “Repeat delay” to the far right as shown and click on <Apply>.

   ![Repeat Delay Image](image2)

   c. Retest the movement of the Moveable Beam.
NOTE: THIS STEP MAY NOT APPLY TO WINDOWS EMBEDDED.

12. Click <START> and right click “Computer” and select “Manage”
   a. Double click “Services and Applications” and Double click “Services”.
      • Scroll to find “Windows Presentation Foundation Font Cache 3.0.0.0”.
         * Change the “Startup Type” to “Disabled” and click <Apply> and <OK>. No other option
           should be used!
      • Scroll to find “Windows Updates” Note: Applies to systems connected to the internet
         * Change the “Startup Type” to “Disabled” and click <Apply> and <OK>. No other option
           should be used!

13. Maximize Widescreen Resolution to fit Pro 42 or Pro 32
    • See TSB WA-1156 (Pro 42)
    • See TSB WA-1159 (Pro 32)

* Congratulations Windows 7 has now been Optimized!