KINOVA

Driver Installation Guide

Version: 1.0

Rev.: August 10th, 2016

Rev. by Alexandre Dion and Éric Champagne

DISCLAIMER

Kinova, PRODUCT, and Kinova's logo are trademarks of Kinova Inc., herein referred to as Kinova. All other brand and product names are trademarks or registered trademarks of their respective corporations.

The mention of any product does not constitute an endorsement by Kinova. This manual is furnished under a lease agreement and may only be copied or used within accordance with the terms of such lease agreement. Except as permitted by such lease agreement, no part of this publication may be reproduced, stored in any retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording, or otherwise, without prior written consent of Kinova.

The content of this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Kinova. Kinova assumes no responsibility or liability for any errors or inaccuracies that may appear in this document.

Changes are periodically made to the information herein; these changes will be incorporated into new editions of this publication. Kinova may make improvements and/or changes in the products and/or software programs described in this publication at any time.

Address any questions or comments concerning this document, the information it contains or the product it describes to:

Publications@KinovaRobotics.com

Kinova may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligations to you.

TABLE OF CONTENTS

1. OVERVIEW

This document shows how to install all the drivers needed to operate and communicate with the robotic arm JACO. Every process described in this document will reference files included in your software package mostly located in the folder named *[Drivers]*.

2.   WINDOWS XP

This section describes how to install the JACO's drivers under Windows XP.

2.1.   Installation

- Plug the robotic arm JACO in the computer via a USB cable. Turn the robotic arm on and the OS will detect that there is a new device to be installed. You should see a window that asks what to do. Select the installation with a specific location.
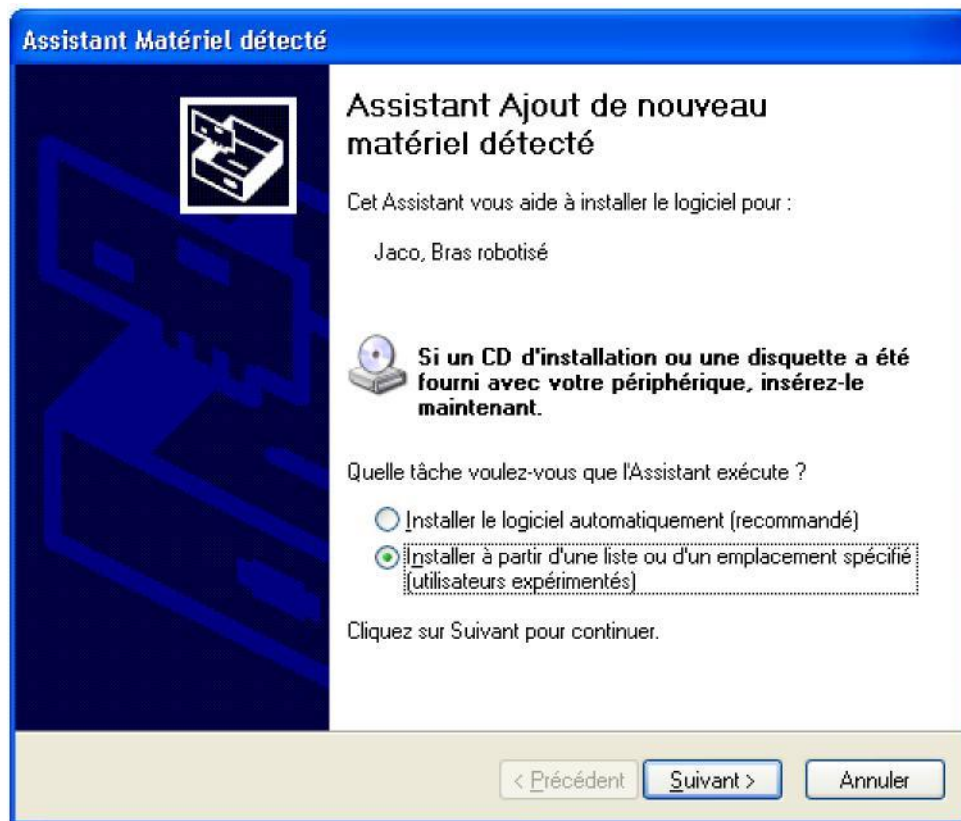
- Browse to the [Drivers] folder from the software package then continue.

- It is possible that the system warns you because it does not know where the driver comes from. Don't worry, it is normal, just continue the installation.

- Installation is completed and you should see your new device in the device manager that can be accessed via the control panel.

3. WINDOWS 7

This section describes how to install the JACO's drivers under Windows 7.

3.1. Installation

- Plug the robotic arm JACO in the computer via a USB cable. Turn the robotic arm on and the OS will detect the arm automatically as an unknown device.

3.1.1. Development Center SDK

o In the Windows Control Panel, open the device manager and wait for the computer to detect a Custom USB Device.

o Right click on the Kinova product that appeared and install the drivers that were copied on your disk when you executed the KinovaSDKInstaller. Assuming that you've installed the SDK in the default folder, it should be located at
  - C:\Program Files(x86)\KinovaSDK\Drivers
  - C:\Program Files (x86)\JACO2SDK\Drivers
  - C:\Program Files (x86)\KinovaSDK_K-series\Drivers
  - …..

o When Windows Security window will appear, choose to install the driver software anyway.

3.1.2.   Jacosoft

- o   In the Windows Control Panel, open the device manager and wait for the computer to detect a Custom USB Device.

- o   Press the button to update the driver and choose [Browse my computer for driver software]

- o   Select the [Drivers folder from the software package] folder. The system will find a driver but will show a publisher warning. Don't worry and install it anyway.

3.2.   *** Important note ***

If you install both programs Kinova (SDK and Jacosoft) on the same PC, you need to follow the following procedure:

- • Follow the above procedures to install one of the drivers but when the time comes to install the second driver, you need to connect Jaco arm on another USB port on your PC. For both drivers should NEVER be installed on the same USB port.
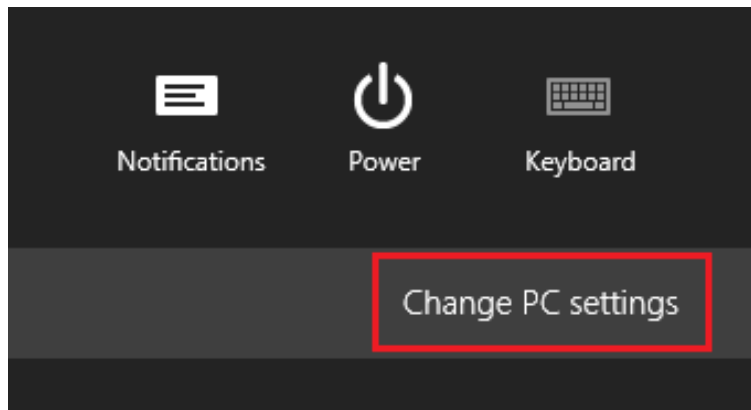
4.   WINDOWS 8

This section describes how to install the JACO's drivers under Windows 8.

4.1.   Installation

- Move your mouse to the bottom-right corner of the screen and click on the button Settings.
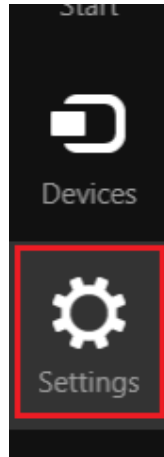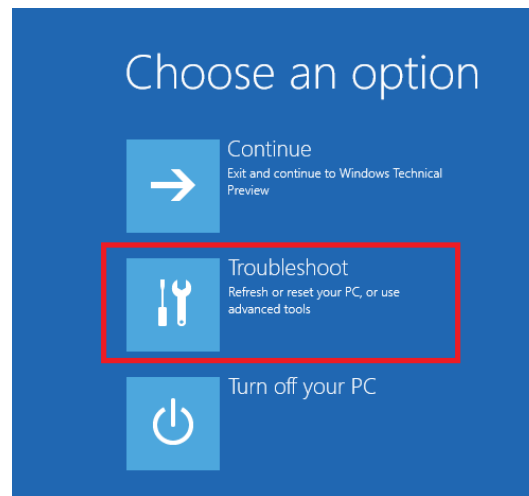

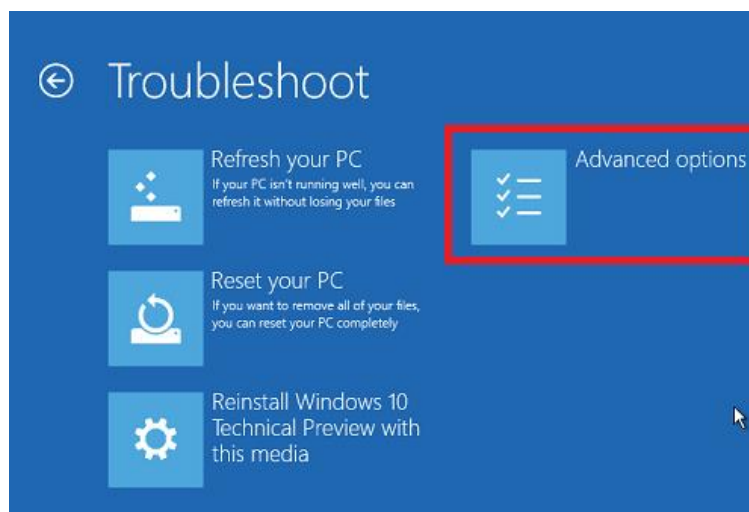- Click on the button Change PC settings located at the bottom of the menu.

- Select the sub-menu Update and recovery.

- Select the sub-menu recovery.

- Click on the button Restart Now located in the Advance startup section.
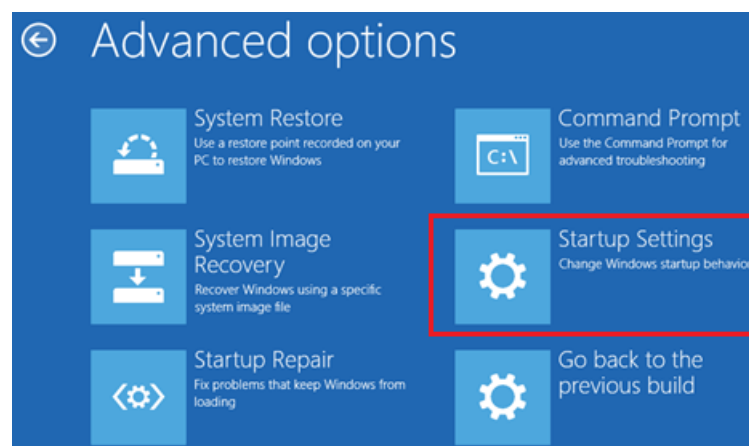
- Wait until it restart.
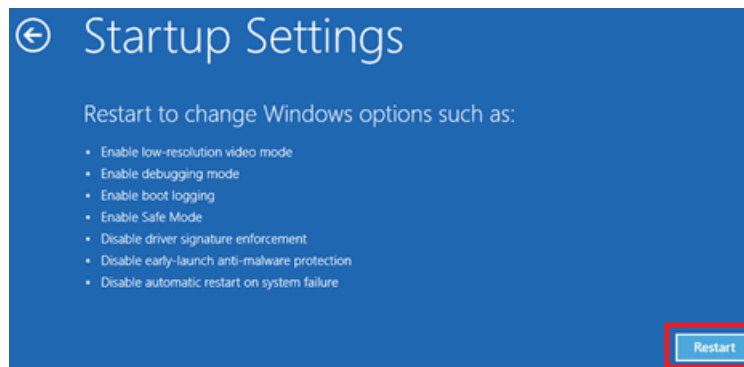
- Select TroubleShoot.

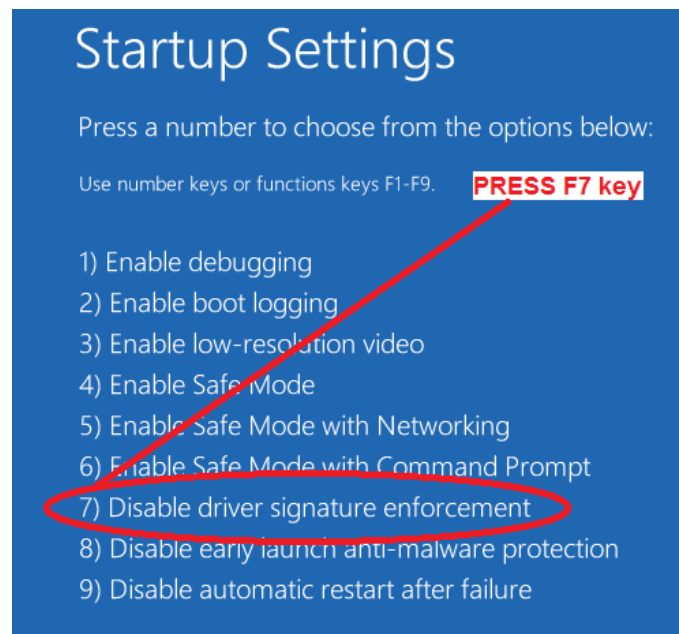- Select Advanced options.

- Select Startup Settings.

- Click on the button Restart.

- Press the key F7 on your keyboard to disable the driver signature enforcement.


- Install the driver the same way as in Windows 7 via the device manager. To access the device manager, right click on the bottom-left corner of the screen and select Device Manager.
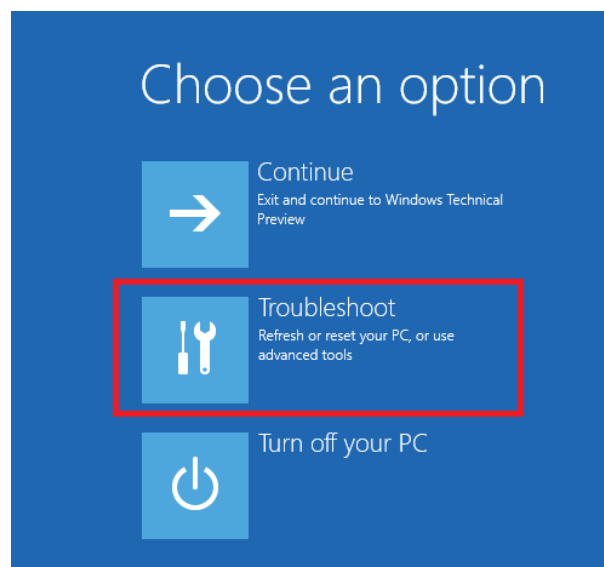
5. WINDOWS 10

This section describes how to install the JACO's drivers under Windows 10.
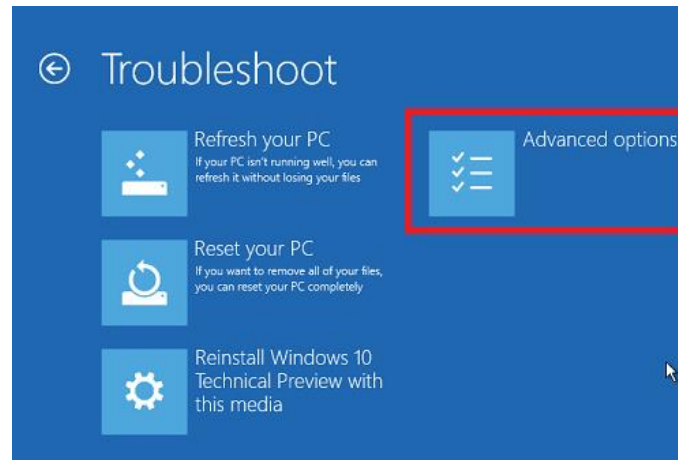
5.1. Installation

- Simply select Restart from the power options menu and Hold down the SHIFT key while you click Restart.
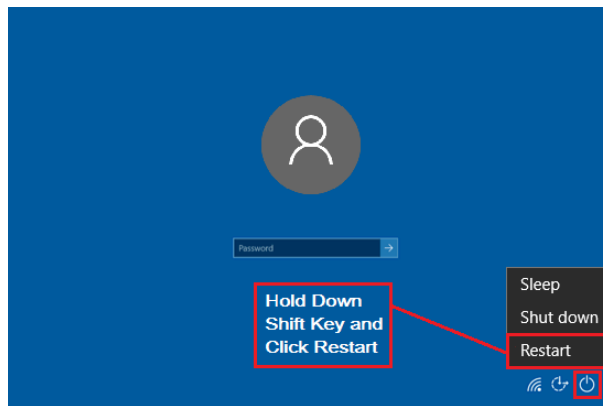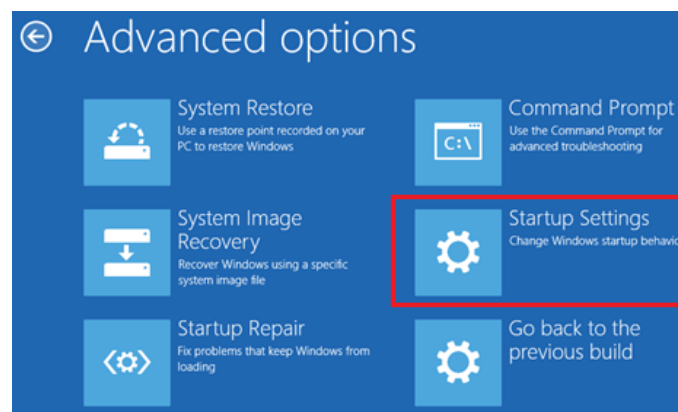

- Once the computer has rebooted you will be able to choose the Troubleshoot option.
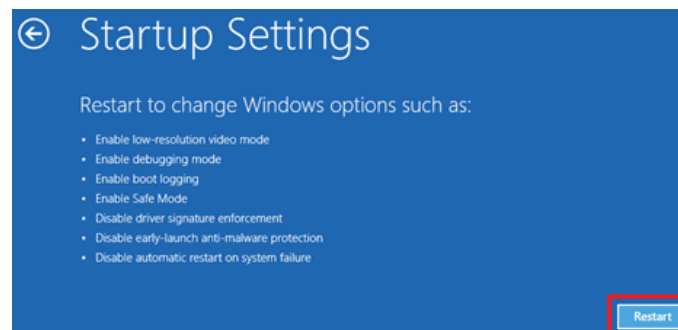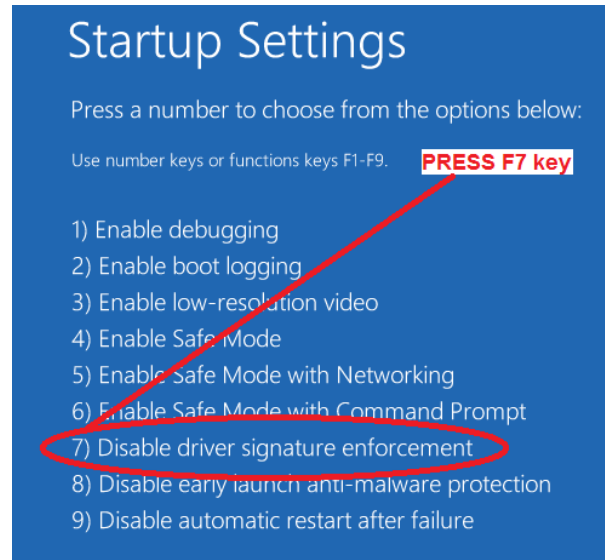
- Then head into Advanced options.

- Then Startup Settings.

- Since we are modifying boot time configuration settings, you will need to restart the computer one last time.

- Finally, you will be given a list of startup settings that you can change. The one we are looking for is "Disable driver signature enforcement". To choose the setting, you will need to press the F7 key.

- The computer will then reboot and you will be able to install the robot drivers without any error message and install the driver the same way as in Windows 7 via the device manager.

6. UBUNTU

This section describes how to setup a Ubuntu terminal to communicate with the robotic arm JACO.

6.1. Installation

- You have to install the package libusb-1.0-0. To install it, open a terminal and type the command:

  sudo apt-get install libusb-1.0-0

- You have to install the package build-essential. To install it, open a terminal and type the command:

  sudo apt-get install build-essential

- The Kinova Debian package can be found here: [Location: API -> Ubuntu -> 32Bits/64Bits] or here: [Drivers -> Ubuntu -> 32Bits/64Bits]. You can install it by typing the command:

  sudo dpkg –i [The package with the correct path]

- Installation is completed!

CONTACT SUPPORT

If you need help or have any questions about this product, guide or the information detailed in it, please contact a Kinova representative at:

We value your comments!

support@kinovarobotics.com

6110 rue Doris-Lussier (street)
Boisbriand, Québec J7H-0E8
Canada

www.kinovarobotics.com/ (English)

www.kinovarobotics.com/fr/ (French)