MY TechnoCare
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INDIA

USB
ISP Programmer
AVR and AT89Sxx

Brand   : MY TechnoCare
Model Number   : MY011V2.1
Type   : Microcontroller IC Programmer (8051 & AVR)
Website   : www.MyTechnoCare.com

1. About USB AVR and AT89Sxx ISP Programmer

USB AVR and AT89Sxx ISP (**In System programming**) Programmer is low cost USB based programmer. There is no need to take out target micro controller from the development Board. This programmer will work with a wide variety of Atmel AVR and AT89Sxxxx microcontroller. They quite compact, but the design is really elegant. The USB interface is achieved by using an atmega8 processor and the rest is done in firmware.

2. Features

- **Allows You** to **Read or Write** the Microcontroller **Flash, EEPROM, Fuse Bit and Lock Bits**.

- **Support for Windows OS** (*For Windows 8 Please Refer Driver Install Guide*), **Mac OS X and Linux**.

- **SCK Option** to **Support Targets With Low Clock Speed** (<1.5 MHz).

- 5 KB/sec **Maximum Write Speed.**

- There is **5V supply Option for Target, so No Need** of **Any External Supply**.

- **6 pin Polarized ISP** Interface for **Easy Connection.**

3. Supported Software

- **AVRdude** - Version 5.2 or later. AVRdude is available for many platforms.[1]

- **Khazama AVR Programmer** - Windows XP/Vista GUI application for USBasp and avrdude.[1]

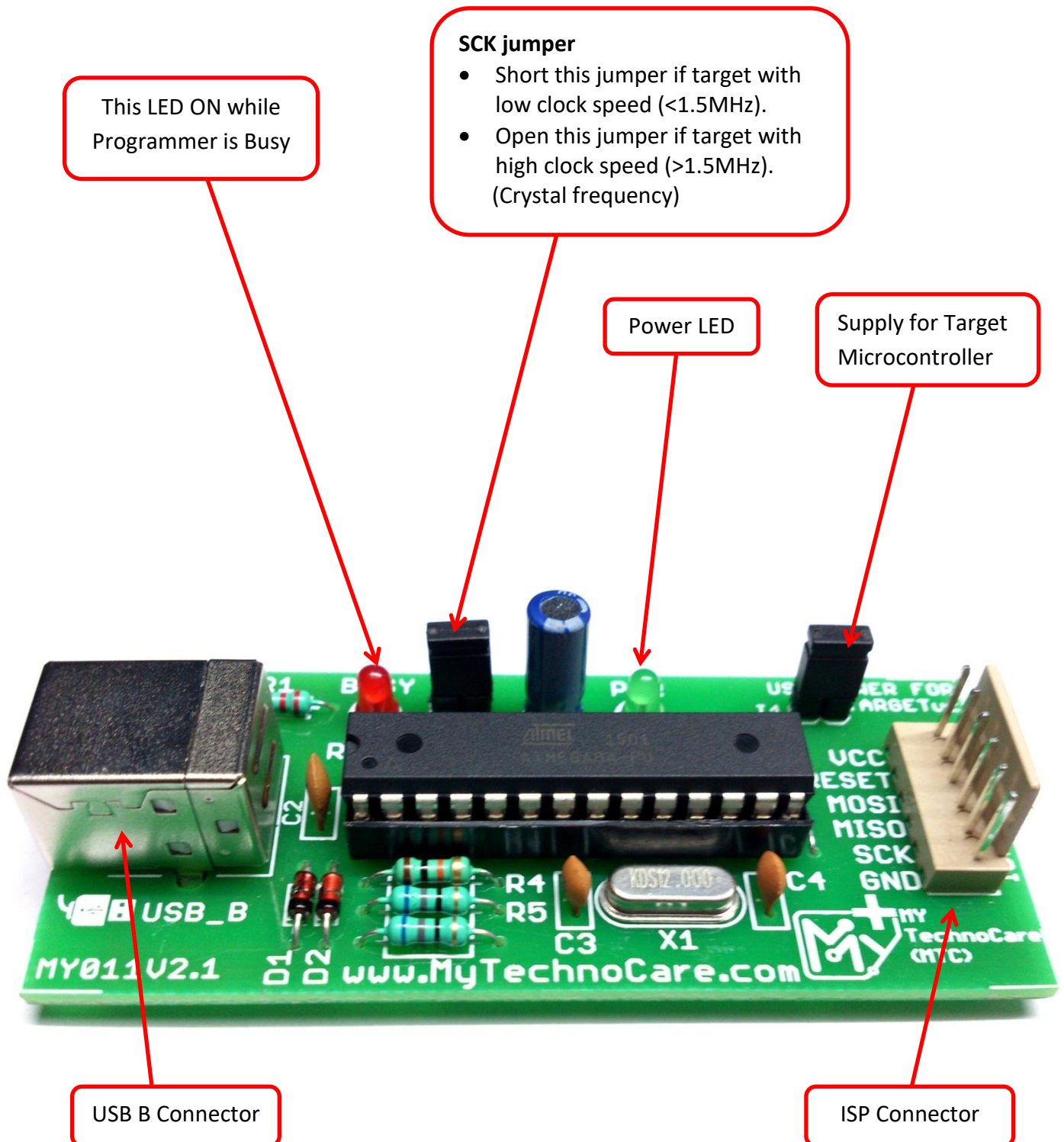- **Progisp** - Windows GUI application for AVR and AT89Sxx.[2]

Note:

1. **Khazama AVR Programmer and AVRdude do not support AT89SXX or 8051.**
2. **Progisp support both AVR and AT89SXX Micro-controller.**
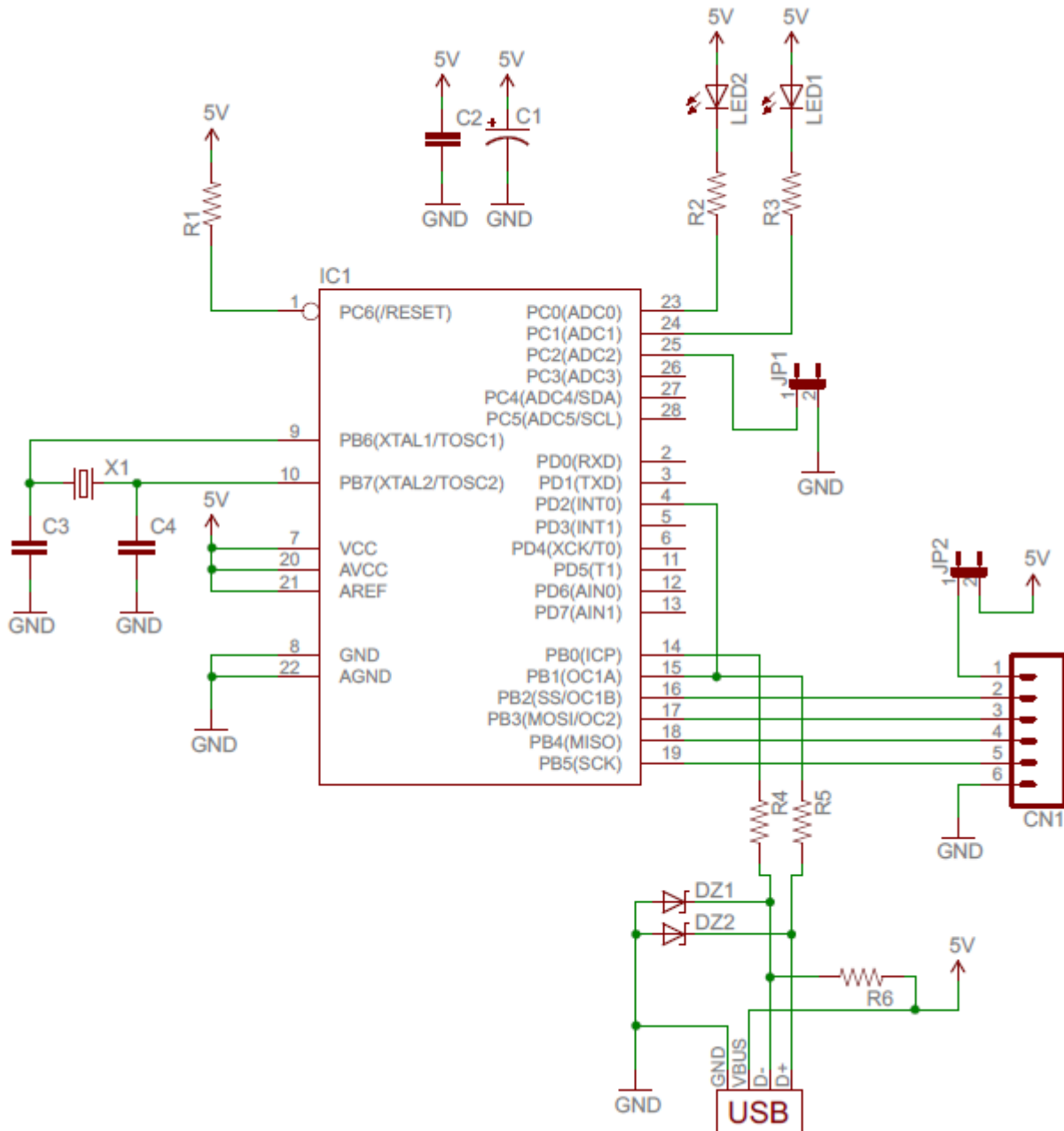
4. Specifications

- Size: 74 x 37 x 12mm

- **Supported Microcontroller**:

ATmega Series				
ATmega8	ATmega8A	ATmega48	ATmega48A	ATmega48P
ATmega48PA	ATmega88	ATmega88A	ATmega88P	ATmega88PA
ATmega168	ATmega168A	ATmega168P	ATmega168PA	ATmega328
ATmega328P	ATmega103	ATmega128	ATmega128P	ATmega1280
ATmega1281	ATmega16	ATmega16A	ATmega161	ATmega162
ATmega163	ATmega164	ATmega164A	ATmega164P	ATmega164PA
ATmega169	ATmega169A	ATmega169P	ATmega169PA	ATmega2560
ATmega2561	ATmega32	ATmega32A	ATmega324	ATmega324A
ATmega324P	ATmega324PA	ATmega329	ATmega329A	ATmega329P
ATmega329PA	ATmega3290	ATmega3290A	ATmega3290P	ATmega64
ATmega64A	ATmega640	ATmega644	ATmega644A	ATmega644P
ATmega644PA	ATmega649	ATmega649A	ATmega649P	ATmega6490
ATmega6490A	ATmega6490P	ATmega8515	ATmega8535	
Tiny Series				
ATtiny12	ATtiny13	ATtiny13A	ATtiny15	ATtiny25
ATtiny26	ATtiny45	ATtiny85	ATtiny2313	ATtiny2313A
Classic Series				
AT90S1200	AT90S2313	AT90S2333	AT90S2343	AT90S4414
AT90S4433	AT90S4434	AT90S8515		
AT90S8535				
CAN Series				
AT90CAN128				
PWM Series				
AT90PWM2	AT90PWM3			
AT89Sxx Series				
AT89S51	AT89S52	AT89S53	AT89S8252	AT89S8253

5. Hardware Details

This LED ON while Programmer is Busy

SCK jumper
- Short this jumper if target with low clock speed (<1.5MHz).
- Open this jumper if target with high clock speed (>1.5MHz). (Crystal frequency)

Power LED

Supply for Target Microcontroller

USB B Connector

ISP Connector

6. <u>Schematics</u>

1. How To Install 8051-AVR ISP Programmer USBasp Drive:

### In order to complete the installation, you need to follow several steps:

The first step is to connect the AVR & AT89Sxx ISP programmer to the USB port of your PC through USB-A to B cable. The AVR & AT89Sxx ISP programmer will work on a wide variety of operating systems, this procedure will only focus on Window 10 but All Window OS including 32-bit or 64-bit may have same procedure.

Required items

A. MY TechnoCare AVR & AT89Sxx (8051) USB ISP programmer.
(You can buy it From This Link **Learn More**).
B. MY TechnoCare USBasp Drivers can be download from Download.

Procedure to install the AVR & AT89Sxx ISP programmer

A. **Connect programmer** to available USB port in your PC through USB cable.
B. Go into the **device manager** and find the entry for the USBasp and it should be displayed with a yellow alert icon on it. (Means USBasp Driver is not installed in your PC/Laptop).
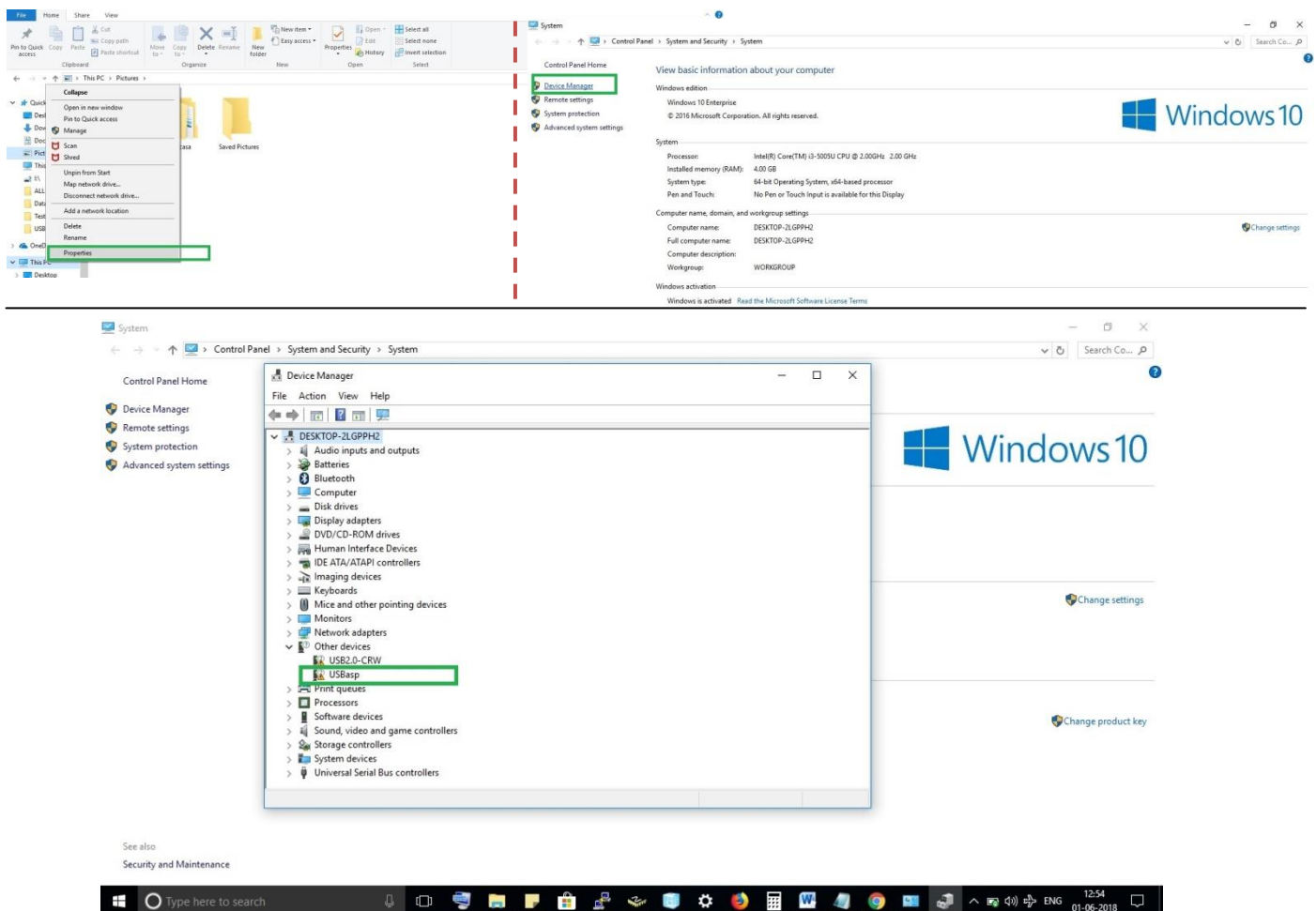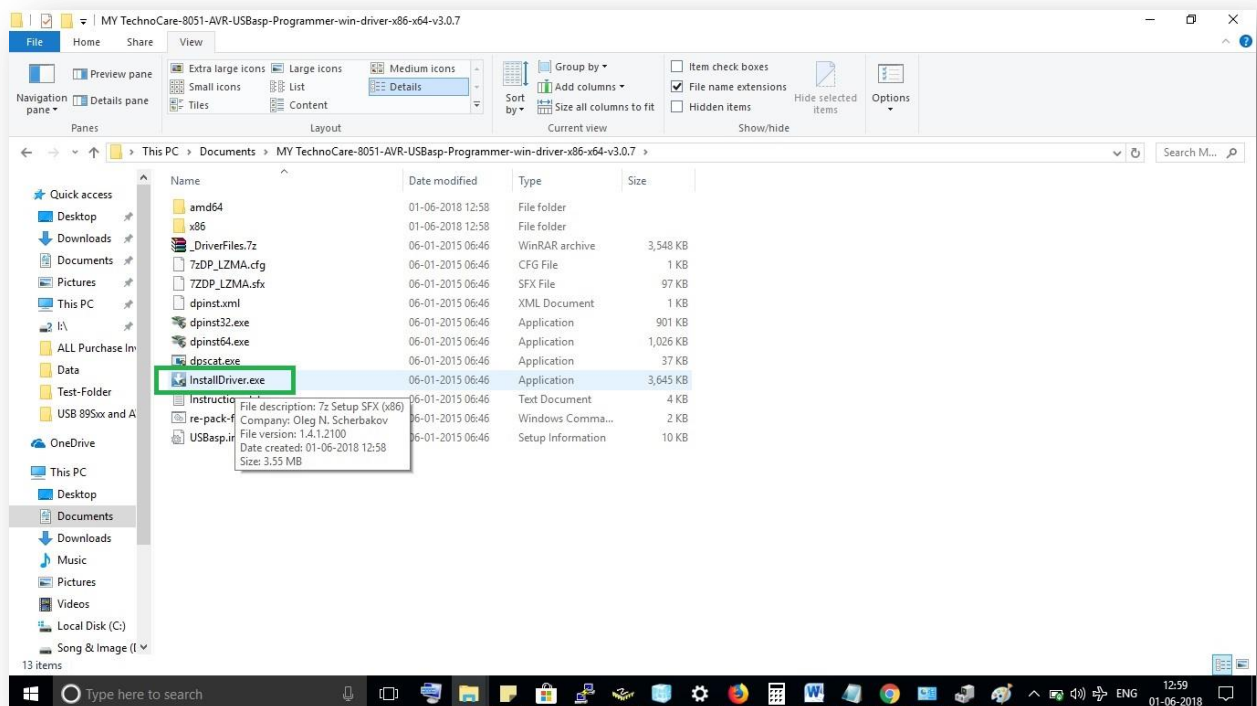
C. **After that Download Driver** for USBasp Programmer From Above Link or Go to www.mytechnocare.com website for more information. Then **Extract RAR File**.
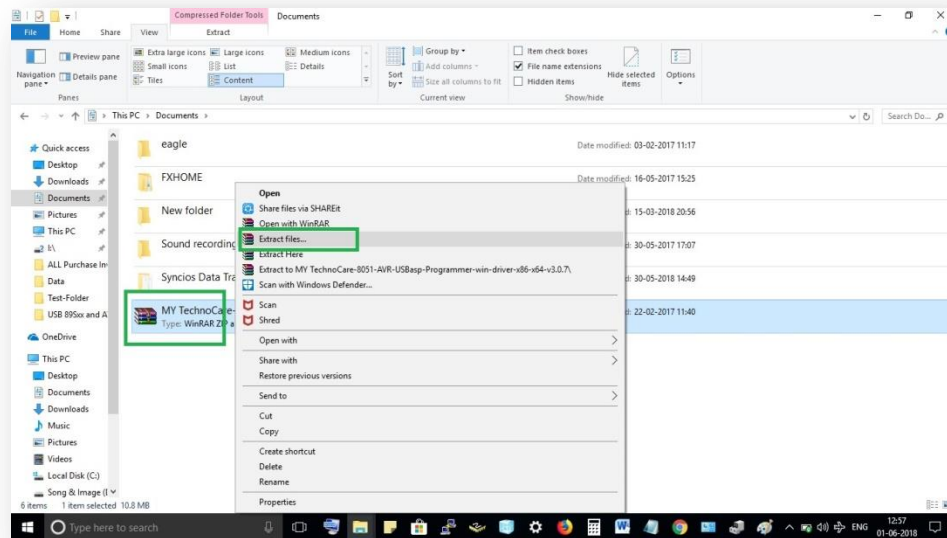
D. After Extract RAR File, Go to Folder where you extract RAR File, Now **RUN** *InsallDriver.exe* File to **Install Driver Automatically.**
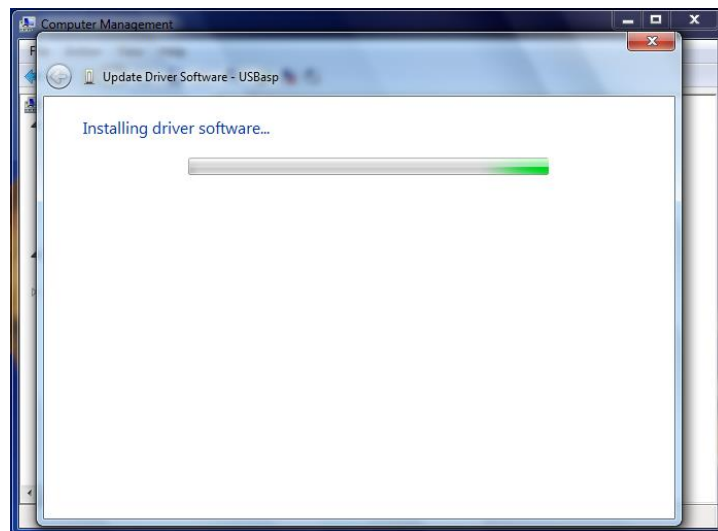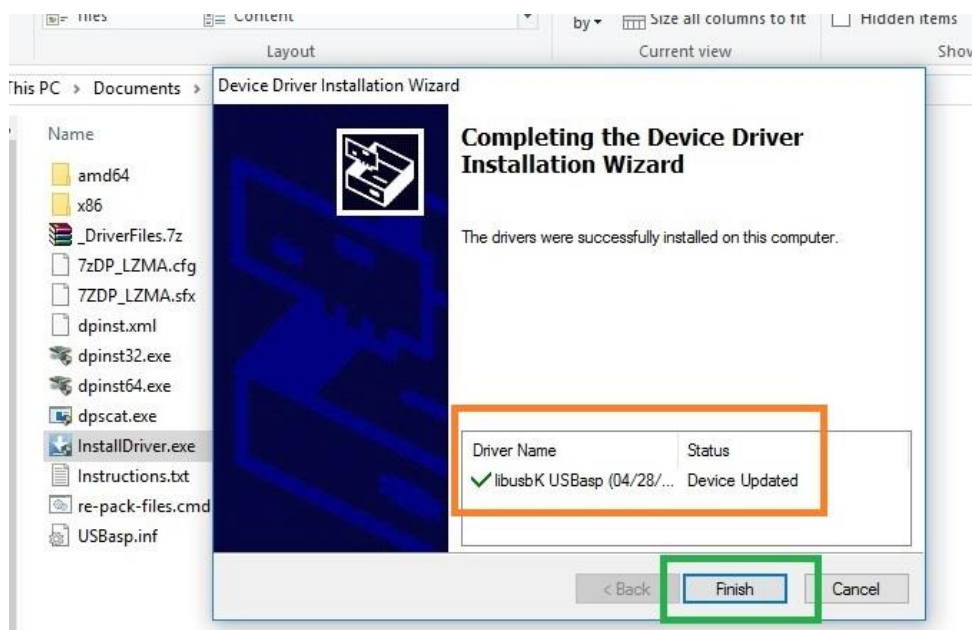
E. Click **Next**.

F. After Click it, the next step is to wait a few seconds to let your computer to process the installation of driver software.
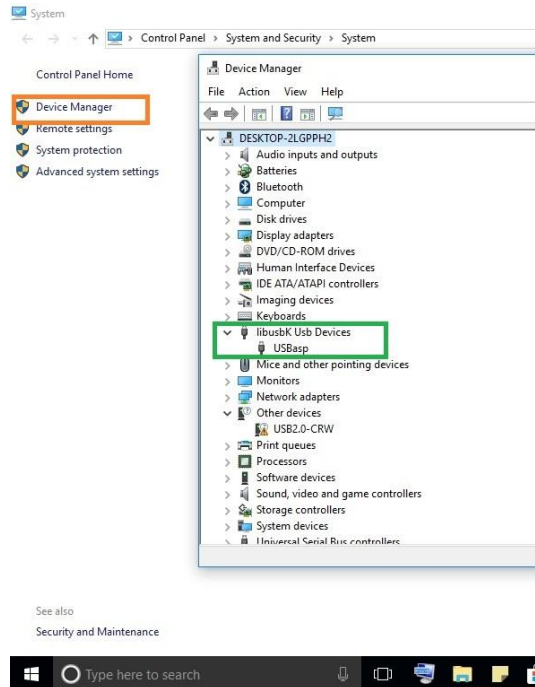

G. Then Click **Finish.**

H. Now Again, Go into the **device manager** as shown in **above STEP A**. *Re-Connect* **programmer** to available USB port in your PC through USB cable. Find the entry for the USBasp Under libusbK Usb Devices (libusbK Usb Devices > USBasp).
It should be displayed without a yellow alert icon on it.

I. That's it, **You Installed Driver Successfully**. Now you can use the Programmer to do the programming for the microcontroller.
J. For Programming You can use one of the ISP Supported Software listed above section. We are Showing Progisp1_72 Software (Support 8051 & AVR microcontroller) for Programmer Detection.
K. Download Progisp172 RAR File From Above Link.
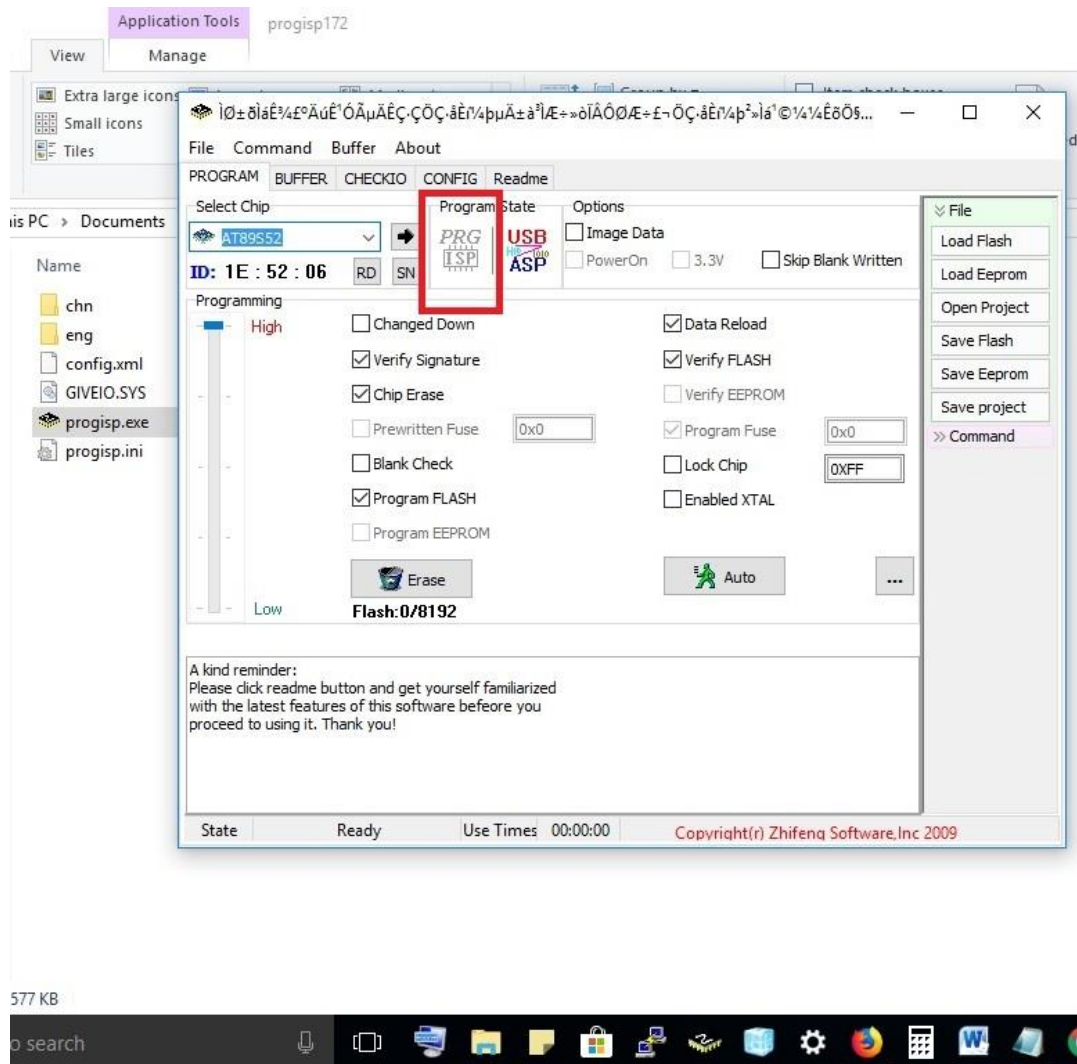L. **After that Extract RAR File**. Then Open **Extracted** Folder Progisp172.
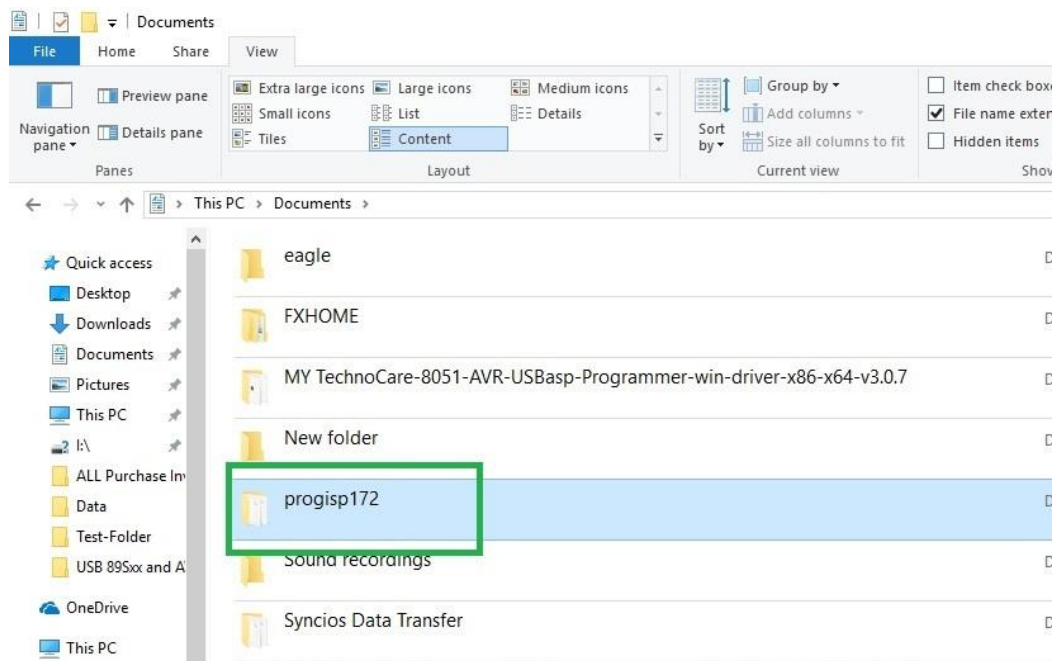
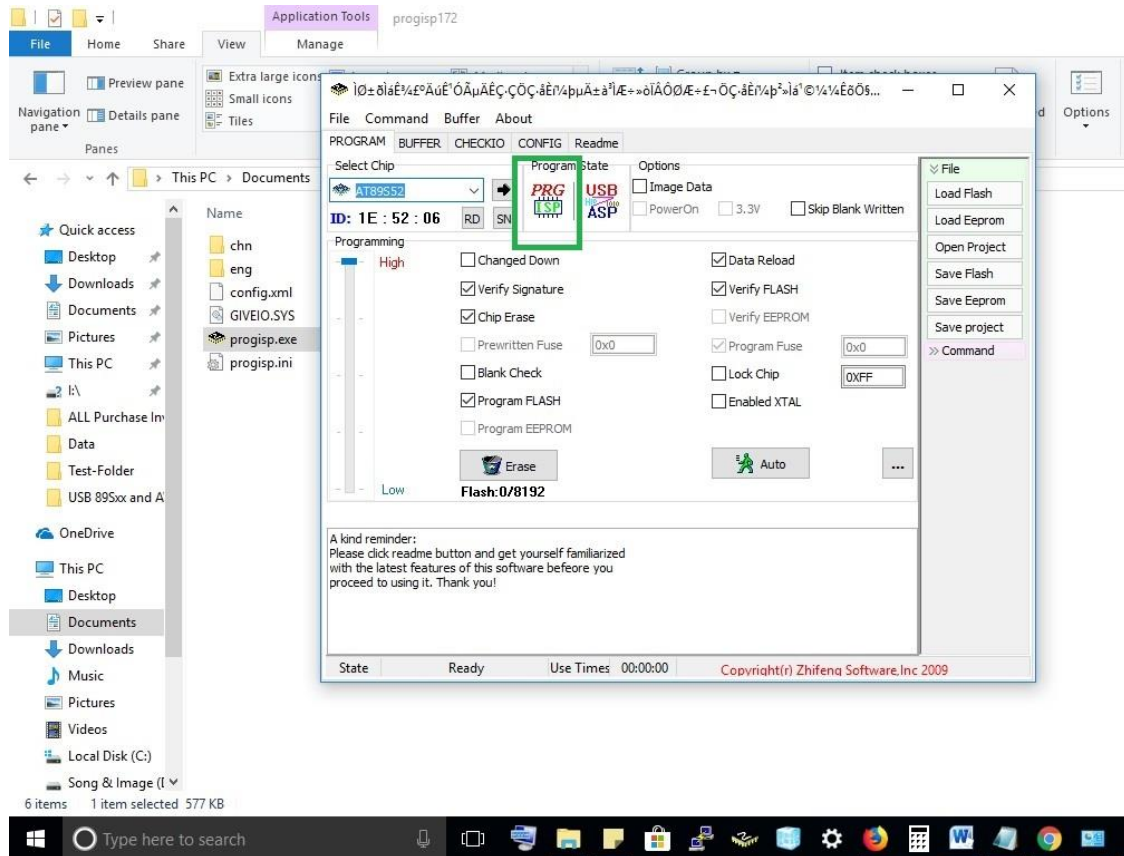M. **Run *progisp.exe*** to open Software**.(This is Portable Software You do not need to install)**
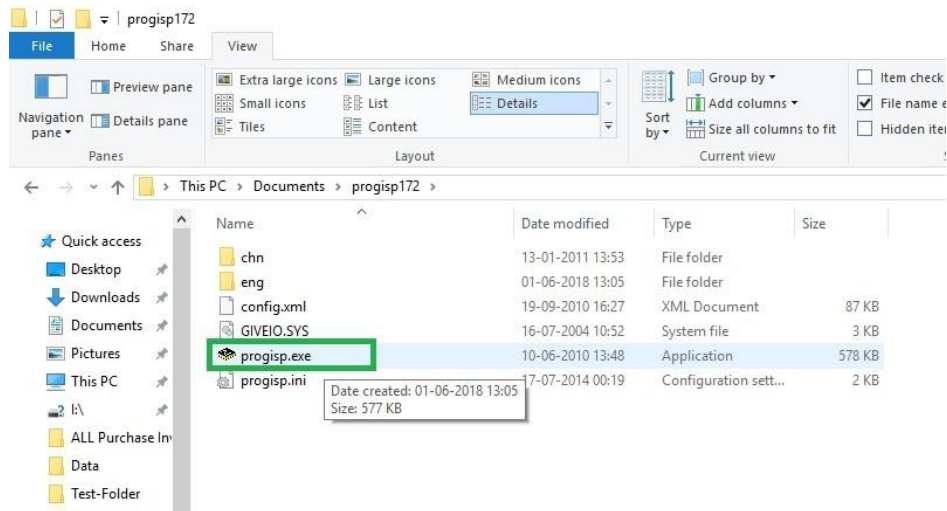
N. Now you can see **"Black n White *PRG-ISP*"** Symbol under Programmer State. If Programmer is Not Connected or Detected.

O. **Now Connect programmer** to available USB port in your PC through USB cable. It Should Show **"Colorful PRG-ISP"** Symbol under Programmer State.

P. Now Connect Your Desired Microcontroller board with Programmer & Enjoy Programming!!

Thank You

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