

DSM / MSM

User's Guide

Ver. 080328

Safety Warnings give you cautions against possible injury and property damage.
Please read them carefully and follow the instructions.



Warning

Safety Instruction

Safety Warnings

Carmanscan Lite mentioned in this User's Guide is designed for those who have basic qualifications for using this system.

For safe and effective use, follow the safety instructions described in this User's Guide.

The followings are general instructions that you must remember when you use the system.



**Do not drop the product.
Always use the product in the rubber boots to protect it.**



**Do not place the product on the ignition coil.
Although the product is designed to be free from
electromagnetic interference, but excessive electromagnetic
interference may damage the system.**



**Excessive surge or electric shock fed by power cable may damage
power supply system of the system.
Do not use the system when power supply is unstable.**



**The AC/DC adapter was designed for 12V DC.
Use only the AC/DC adapter with rated voltage.**



**Note that the radio transmission system may cause radio
interference. No service will be available with respect to
personal casualty and injury.**

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Chapter 1 : General Description

1. System Features

DSM (Diagnosis System Module) checks ECU data for errors by using OBD-I, OBD-II, and CAN communication.

MSM (Measure System Module) measures oscilloscope waveform, current, pressure, temperature, etc.

DSM can be connected to the diagnosis connector of a car with the diagnosis cable, and it checks the engine, auto transmission, ABS, air bag, power steering, and other devices of a car for error & service data and starts the actuator.

DSM has the following features:

- ▶ DSM can diagnose all types of Ssangyong cars for error (except some types of cars).
 - Supports OBD-I ,OBD-II protocols: OBD-II (ISO 9141-2), OBD-II (SAE-J1850), KWP-2000, CAN and SAE J1587.
- ▶ DSM helps you diagnose cars for errors and find service data.
 - Using the sensor and switches installed in the car, you can perform diagnosis, save sensor data, and load the data you have saved.
- ▶ DSM provides automatic scanning for actuators.
 - Using the scanner, you can run or stop the actuator and switches in a car by force to check if the device is normal.
- ▶ The Diagnosis Guide that came with the system provides a quick reference while you are working on a car.
- ▶ As a laptop PC is used in diagnosing, you can save data without storage limit and can easily update the diagnosis program via Internet.
- ▶ Wireless LAN communication provides easier and quicker error checking of the car. In addition, in the place where wireless communication is unavailable, you can get connected using the USB port.
- ▶ The diagnosis program can be updated online any time you want.
- ▶ **Some of window configurations or features described in this User's Guide are subject change for functional improvement.**

Chapter 1 : General Description

2. System Specification

Spec	DSM (Diagnose Mode)	MSM (Measure Module)
Input power	7V ~ 36V	7.2V ~ 37.2V
Input current	300mA at 12V	800mA at 12V
ARM CPU	STR710	S3C2440
Internal clock	16MHz (48MHz operation after Internal Over Clocking)	16.9344MHz (111MHz operation after Internal Over Clocking)
Built-in memory (SRAM)	2M byte	64M byte
Built-in memory (FLASH)	32M byte	64M Kbyte
USB	Ver 2.0	Ver 1.1
Battery performance	Li-ion Polymer 3.7V 4200mA (1S 2P)	Li-ion Polymer 7.4V 4200mA (2S 2P)
Compatible protocols	KWP2000, ISO 9141, CAN 2.0A~B, J1850 PWM/VPW	-
Wireless LAN	IEEE 802.11b	-
SCOPE CHANNEL	-	4CH BNC port supported
Max. input voltage of Scope	-	± 500V

Chapter 1 : General Description

3. Rechargeable Battery

The rechargeable battery pack has the following features:

- Voltage of the battery pack gradually decreases even when the system does not run.
- Before you use the product for the first time, be sure to fully charge the battery.



Always use the rechargeable battery pack provided by NexTech.

- Using a 3rd party product may cause explosion.
(7.4V 2200mAh lithium ion battery pack)



Do not heat the battery pack.

- It may cause explosion.



Do not short the battery pack terminal.

- It may cause explosion.



Do not place the battery pack on or near hot material over 60C.

- It may cause explosion.



Keep the battery pack away from touch of children or animal.

- It may cause fire or injury.



To prevent the battery pack from being discharged, always connect the power before using the system. Because of discharged battery pack you may lose your screen captures, flight record data, etc.

TIPS) As the rechargeable battery pack is a consumption goods, its warranty period is 6 months from the date of purchase.

Chapter 1 : General Description

4. List of Components

1) DSM (Diagnose Module)

	Item No	Item Description
1	A99910212A	DSM (Diagnose Module)
2	A99910382A	Rubber boots (fastened to DSM)
3	A99910272A	DLC main cable
4	A99910242A	USB cable (for diagnosis, 2M)
5	A99910282A	Cigar lighter jack cable
6	A99910252A	Battery extension cable
7	A99910292A	AC/DC ADAPTOR
8	A99910302A	AC POWER CORD
9	A99910312A	DSM / MSM User's Guide (KOREA)
10	A99910322A	S/W DVD
11	A99910392A	Rechargeable battery (built-in)
12	A99910222A	Ssangyong 14P adapter
13	A99910232A	Ssangyong 20P adapter
14	A99910262A	W200 CAN adapter
15	A99910402A	Black box switch
16	A99910332A	Ssangyong Diagnoser bag
17	A99910372A	USB wireless LAN card (Unicorn) MX-54G
18	A99910702A	Diagnose/Measure Module Set (DSM and MSM respectively)
19	A99910202A	Diagnose Module Set (DSM Set)
20	A99910502A	Measure Module Set (MSM Set)

Chapter 1 : General Description

2) MSM (Measure Module)

	Item No	Item Description
1	A99910512A	MSM (Measure Module)
2	A99910612A	Rubber boots (fastened to MSM)
3	A99910522A	Ignition secondary pickup
4	A99910532A	Scope cable set
5	A99910542A	USB cable (for measuring)
6	A99910632A	Rechargeable battery (built-in)
7	A99910552A	T-connector (Air Bag)
8	A99910572A	T-connector (B-6P)
9	A99910562A	T-connector (Throttle Body)
10	A99910582A	T-connector (Wheel Speed-C)
11	A99910592A	T-connector (Wheel Speed-E)
12	A99910622A	CAN PROBE
13	A99910602A	Dummy resistance (2Ω)

3) Options

	Item No	Item Description
1		DLI pickup
2		Trigger pickup
3		Big current pickup
4		Small current pickup
5		Temperature pickup
6		Pressure measure pickup

Chapter 1 : General Description

5. Component Photo and Description

Diagnosis Module



Figure 1.1 DSM (Diagnosis Module) _ Front

- Diagnosis Module Status Display Screen: Able to check the status of power application, of USB connection, of WLAN connection, of recording, and of vehicle diagnosis.
- Power Button: Able to turn on/off the product.

Chapter 1: General Description



DLC Communication Cable Connector Black box Remote Control Connector

Figure 1.2 DSM (Diagnosis Module) _Side 1

- DLC Communication Cable Connector: Connect the diagnosis connector for the vehicle diagnosis.
- Black box Remote Control Connector: A terminal that connects the black box remote control that works the black box function.



USB Port

Power Port

Figure 1.3 DSM (Diagnosis Module) _Side 2

- USB Port: Connects DSM (Diagnosis Module) to user PC.
Power Port: To supply power by applying a 12V adapter to DSM (Diagnosis Module).

Chapter 1 : General Description

Rubber Boots



For Diagnosis Module



For Measurement Module

Figure 1.4 Rubber Boots

Rubber boots functions to protect DSM / MSM against electric and physical shocks from outside, preventing product damage.

DLC Cable



Figure 1.5 DLC Cable

DLC is also called OBD-II cable; all of new vehicles recently released are equipped with the OBD-II connector in accordance with the OBD-II standard.

New vehicles are designed to perform diagnosis as soon as DLC cable is connected, not requiring additional power connection because power is provided through the diagnosis connector.

TIPS) For old-model vehicles, you can perform diagnosis by connecting an additional adapter.

Chapter 1 : General Description

USB Cable



Figure 1.6 USB Cable

USB cable is used in working the program by connecting the USB port of DSM / MSM and that of laptop and upgrading the DSM diagnosis program.

Please use only the USB cable provided by us.

Cigar Lighter Cable



Figure 1.7 Cigar Lighter Cable

Cigar lighter cable provides power to DSM / MSM by connecting the vehicle cigar jack.

TIPS) DSM / MSM doesn't require additional power because a battery is loaded inside, but if the battery is low or not charged enough, you can connect the cigar lighter cable and use it.

Chapter 1: General Description

Battery Extension Cable



Figure 1.8 Battery Extension Cable

Battery extension cable enables the battery power to work immediately.

AC/DC Adapter



Figure 1.9 AC/DC Adapter

When downloading the diagnosis program or searching the stored driving data, power can be supplied through the AC/DC adapter.

Chapter 1 : General Description

User Guide



Figure 1.10 User Guide

Be sure to read through the user guide before using the product.

S/W DVD



Figure 1.11 S/W DVD

Chapter 1: General Description

Vehicle Diagnosing Adapter



Figure 1.12 Ssangyong Adapter(14P)



Figure 1.13 Ssangyong Adapter(20P)

W200 CAN Adapter



Figure 1.14 W200 CAN Adapter

W200 CAN data measuring cable

Chapter 1 : General Description

Black box Switch



Figure 1.15 Black box Switch

Used in realizing the black box function when the user is in need of it.

Ssangyong Diagnosis Tool Box



Figure 1.16 Ssangyong Diagnosing Tool Box

To prevent the product loss, and protect it against the shock, please store the product in the box when not in use.

Chapter 1: General Description

USB Wireless Lan Card (unicone) MX-54G



Figure 1.17 USB Wireless Lan Card (unicone) MX-54G

Used for the connection to the diagnosing module after attached to PC.

Chapter 1: General Description

Measuring Module



LCD/Measuring Module

Power Button

Arrow Key

Status Display Screen

Figure 1.18 MSM (Measuring Module)_Front

- LCD: You can check the operation mode and perform the multi-meter function independently even without PC connection.
- Measuring Module Status Display Screen: You can check the status of product power application, of battery, of USB connection, and of trigger operation.
- Power Button: You can turn on/off the product.
- Arrow Key: You can move Up/Down/Left/Right by selecting the menu.

Chapter 1: General Description



Figure 1.19 MSM (Measuring Module) _Side 1

- Oscilloscope Terminal: CH1, CH2, CH3, and CH4 from the left side.



USB Terminal

Power Terminal

Figure 1.20 MSM (Measuring Module) _Side 2

- USB Terminal: To connect MSM (measuring module) to the user PC.
- Power Terminal: To supply power by applying the 12V adapter to MSM (measuring module).



MSM (measuring module) does not support the wireless function. When connecting to the user PC, USB must be used.

Chapter 1: General Description

2nd Ignition Pickup



Figure 1.21 2nd Ignition Pickup

Used when 2nd ignition single wave is measured.

Scope Set



Figure 1.22 Scope Set

You can use it when measuring the sensor wave.

Chapter 1: General Description

T-Connector (A)



Figure 1.23 T- Connector (A)

T-Connector (B)



Figure 1.24 T- Connector (B)

T-Connector (C)



Figure 1.25 T- Connector (C)

It is designed to prevent wiring damage when measuring the T-connector scope and to measure the scope waveform after taking away and connecting the sensor connector.

* **A** - for measuring air bag **B** – for general measurement **C** – for measuring TPS

Chapter 1: General Description

T-Connector (WH)



Figure 1.26 T - Connector (WH)

T-Connector (WHW)



Figure 1.27 T- Connector (WHW)

CAN PROBE



Figure 1.28 CAN PROBE

Dummy Resistance (2Ω)



**Figure 1.29 Dumpy Resistance
(2Ω) *2EA**

Chapter 1: General Description

6. How to Supply Power

1. Cigar Lighter Cable

Power is supplied through the cigar lighter cable.

However, when the ignition switch of the vehicle is set to Off or during the starting of the engine, power is not supplied to the cigar lighter socket.

2. Vehicle Battery

Have the red clip snapped onto the connection cable to the (+) terminal of the battery, and have the black clip snapped onto the cable for the (-) terminal. And then use the cigar lighter cable to supply the power.

At this time, power can be always supplied regardless of ignition switch location or engine starting condition.



If you connect it to the wrong polarity, take your cautions, it may damage to the main body.

3. DLC Main Cable

Not only for the vehicles meeting the OBD-II communication regulations, or the diagnosis connectors of some automobile makers, power can be supplied only with the DLC main cable without extra power supply.

4. Battery

If you use the enclosed battery, you can use it for 1-2 hours without supplying additional power.

TIPS) The amount of usage time vary according to the usage purpose or environment.

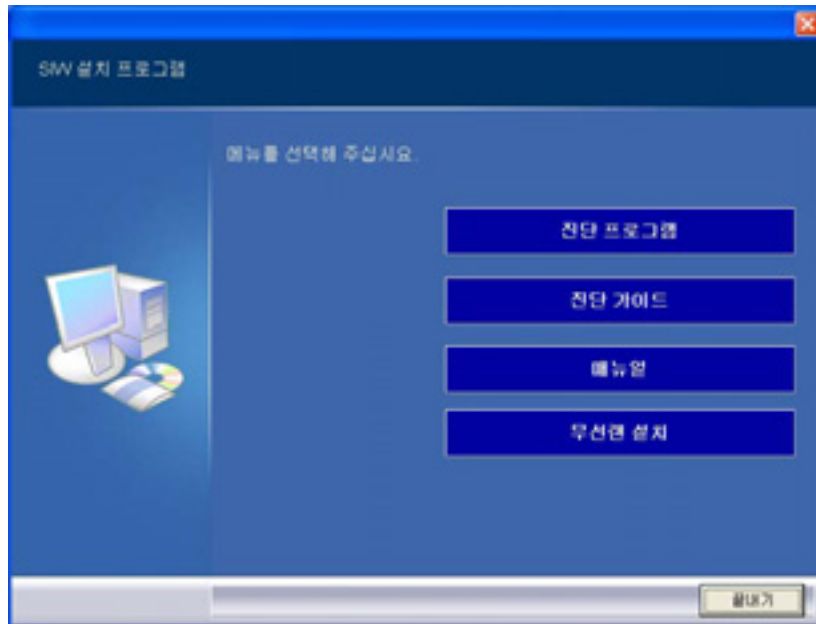
5. AC/DC Adapter

When using the AC/DC adapter as the power source, some of programs have the battery automatically recharged, used as the power source of the main body.

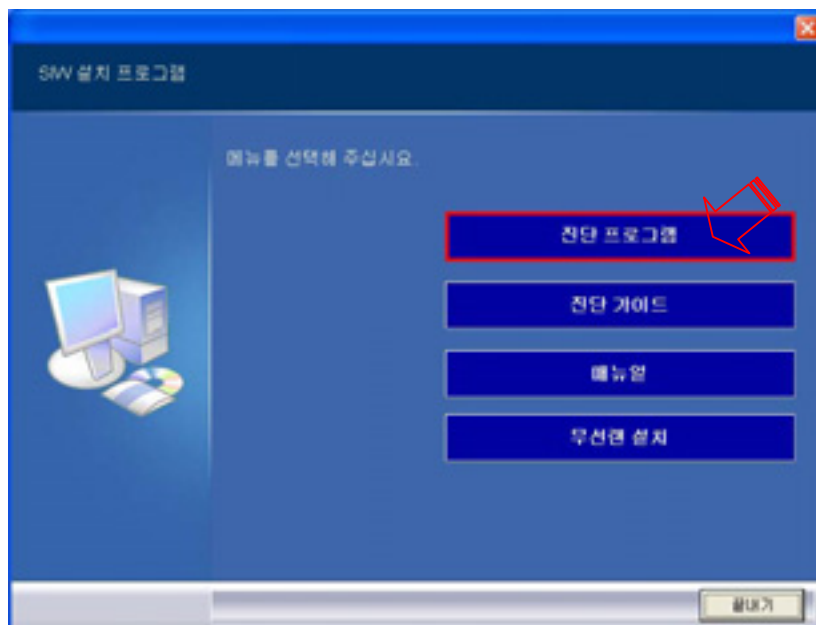
Chapter 2: Install Program (for XP)

1. Install Diagnosing Program

Step 1) Insert the program installation DVD 1[Disk1: Diagnosis and Diagnosing Guide #1] to your laptop. The following screen will be prompted.



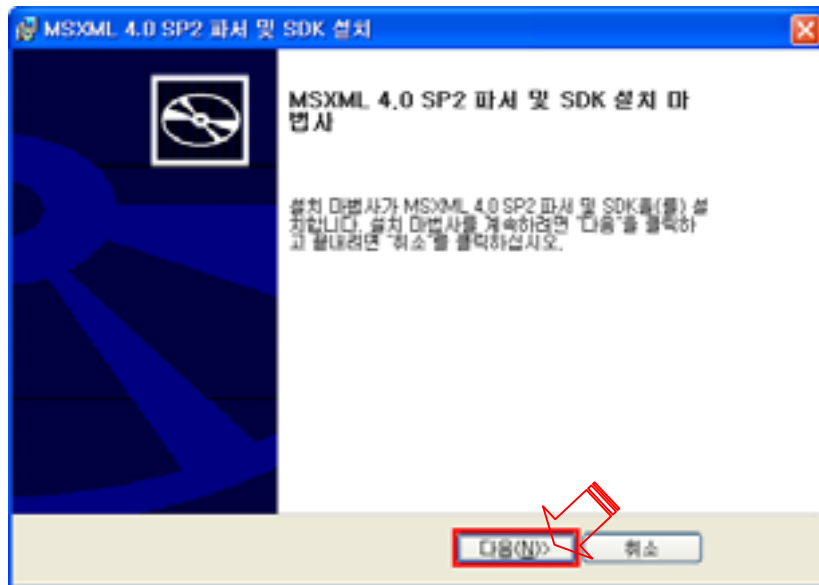
Step 2) Click the [Diagnosing Program] icon to proceed to the next step.



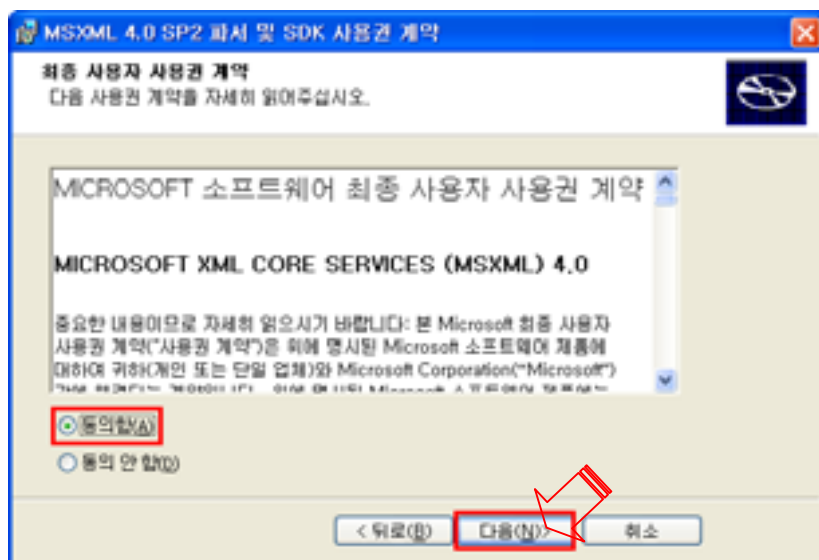
Chapter 2: Install Program (for XP)

[If the program is already installed, click the [Recovery] icon and continue the process.]

Step 3) The installation process is continued, showing the following screen. Click [Next(N)>] to continue the process.



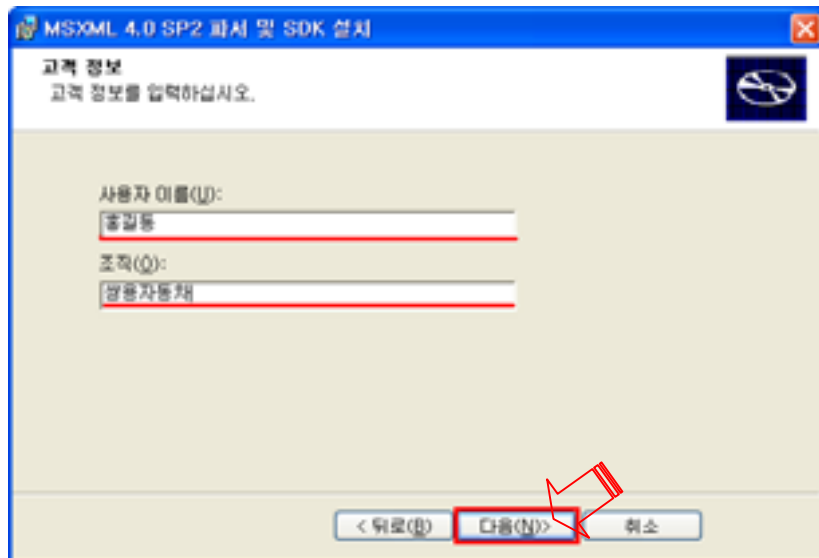
Step 4) The following screen is displayed. Click [Agree (A)], and then click [Next (N)>].



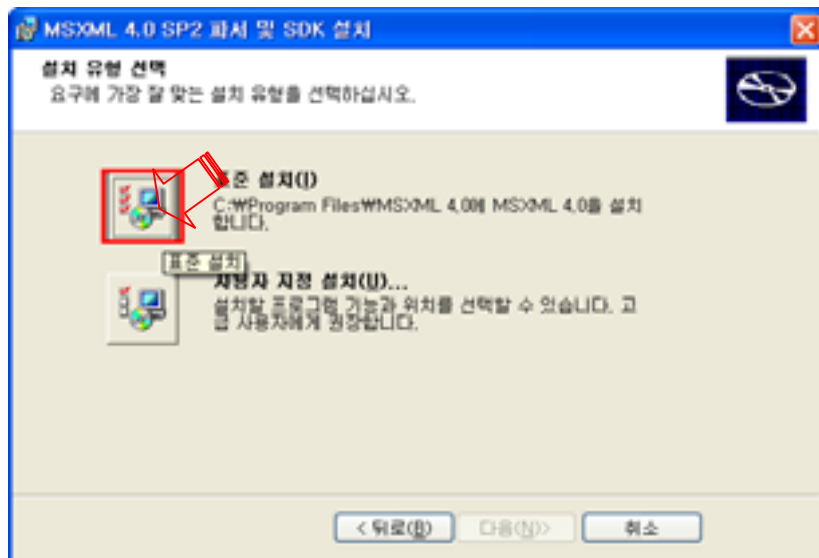
Chapter 2 : Install Program (for XP)

Step 5) The following screen is displayed. Enter customer information.

After entering information, click [Next(N)>] and continue the process.



Step 6) Click the [Standard(L)] icon.

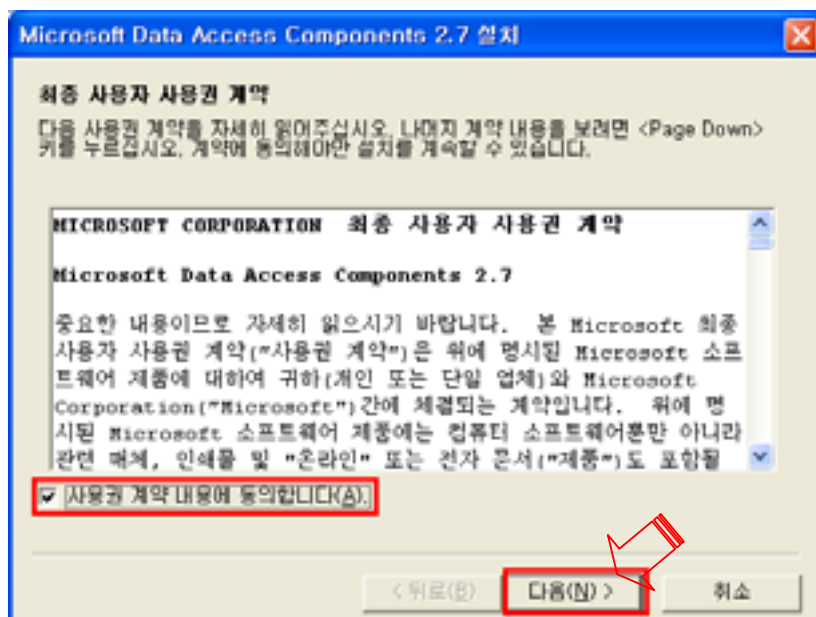


Chapter 2: Install Program (for XP)

Step 7) Once the installation is complete, you will see the following screen. Click [Finish (E)].



Step 8) After selecting [Agree to EULA(A)], click [Next(N)>].

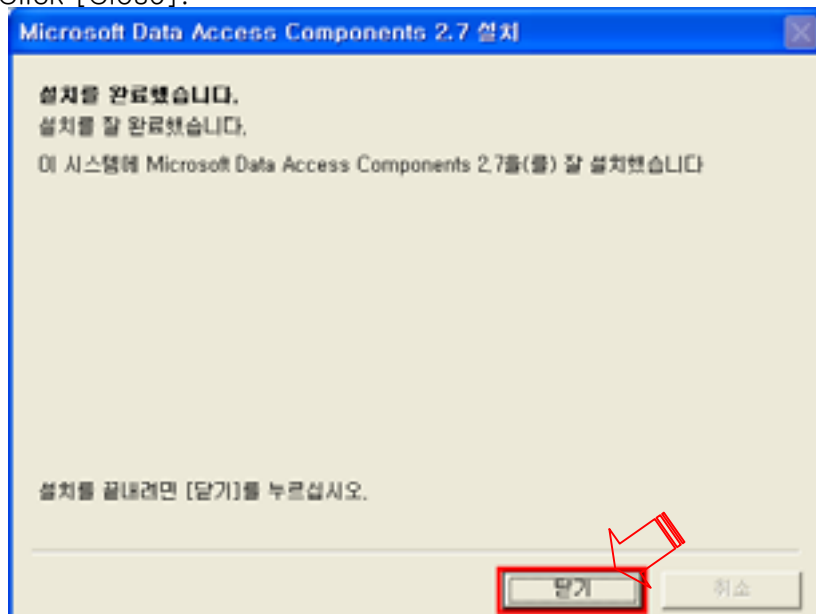


Chapter 2: Install Program (for XP)

Step 9) Once the installation is complete, you will see the following screen. Click [Finish].



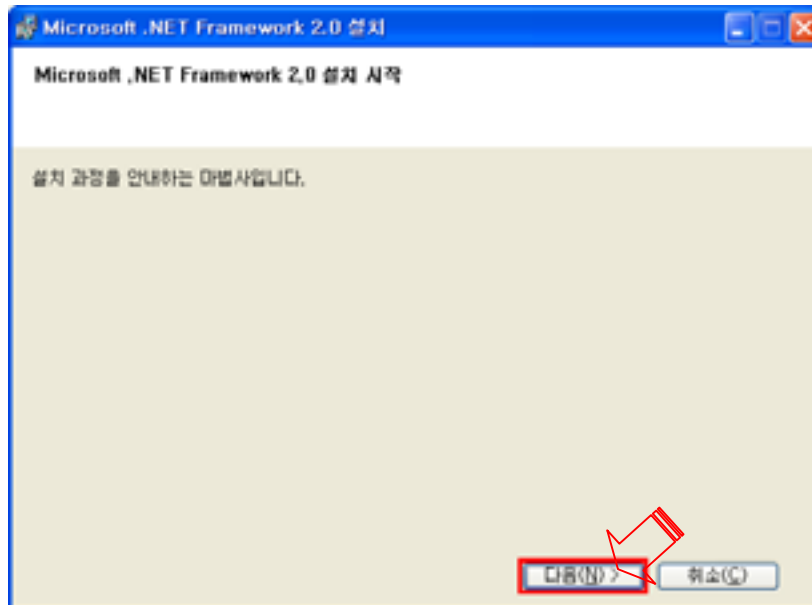
Step 10) Click [Close].



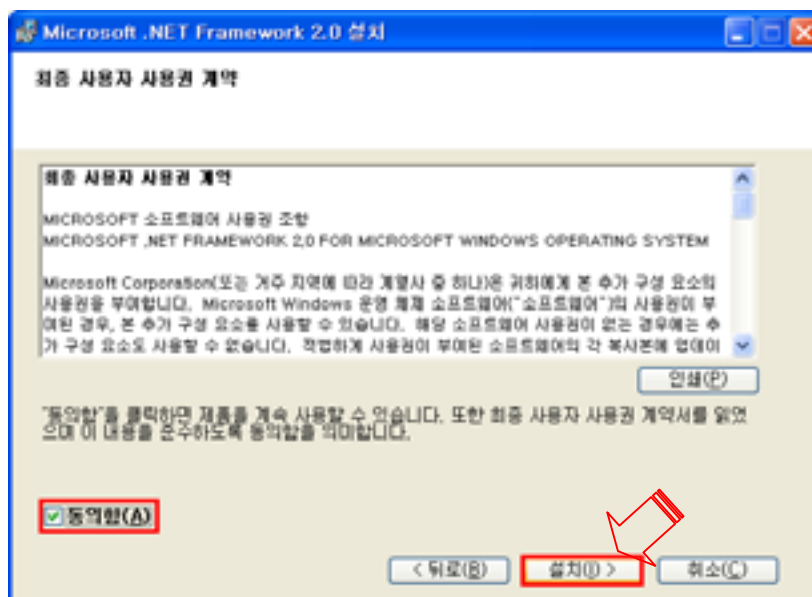
Chapter 2: Install Program (for XP)

[If the program was already installed, you can skip the following process.]

Step 11) Click [Next(N)>] to continue the installation.

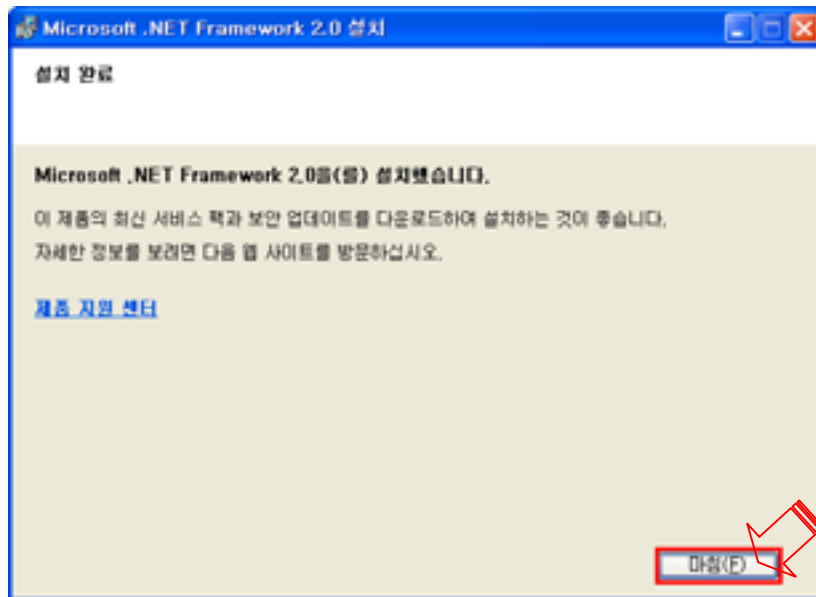


Step 12) You will see the following screen. Click [Agree(A)], and then click [installation(I)>].

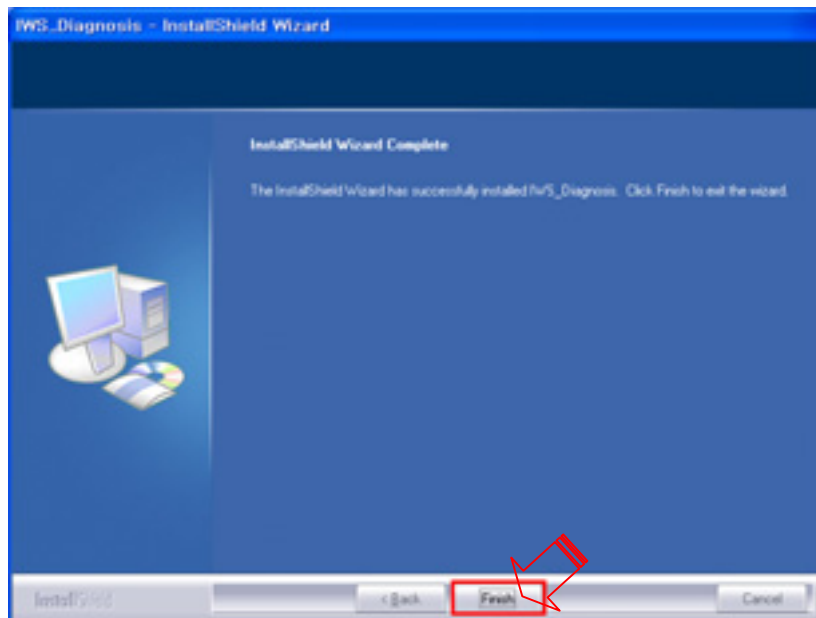


Chapter 2: Install Program (for XP)

Step 13) Once the installation is complete, you will see the following screen.
Click [Finish (E)].



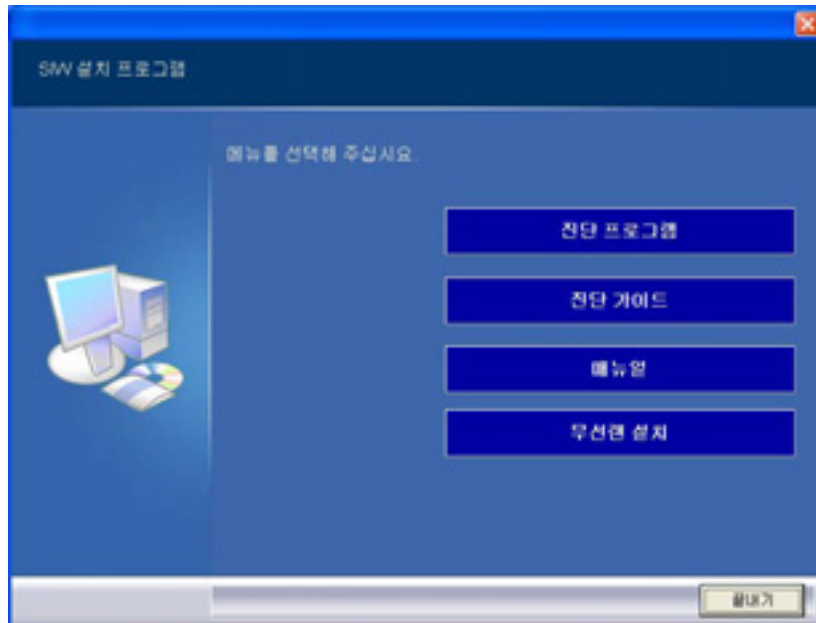
Step 14) Click [Finish] to complete all of the installation process.



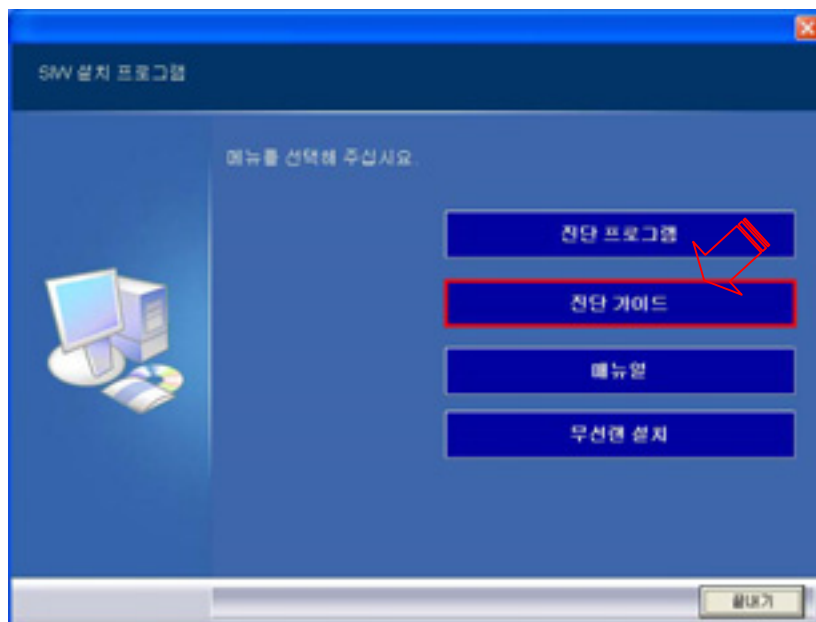
Chapter 2: Install Program (for XP)

2. Install Diagnosing Guide

Step 1) Insert the program installation DVD 1[Disk1: Diagnosis and Diagnosing Guide #1] into your laptop. You will see the following screen.

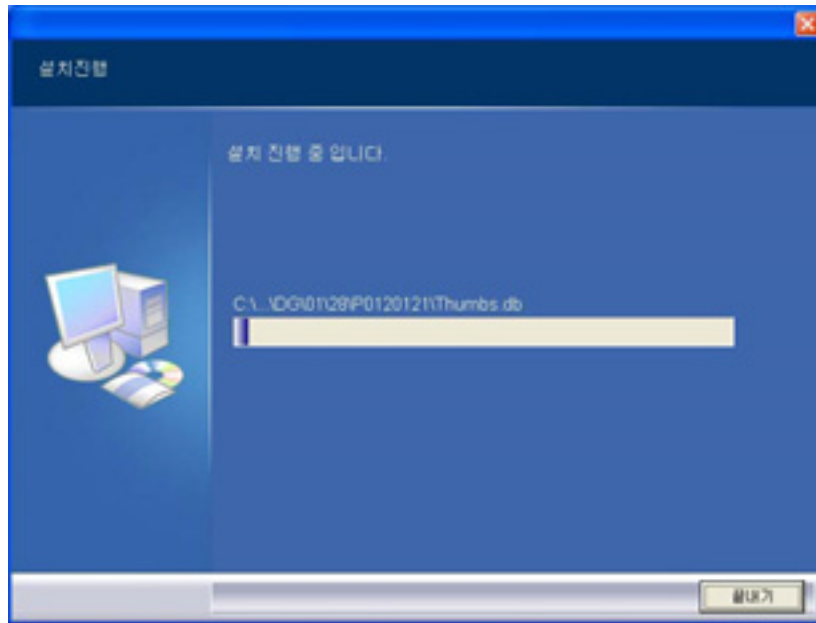


Step 2) Click the [Diagnosing Guide] icon to continue the installation process.

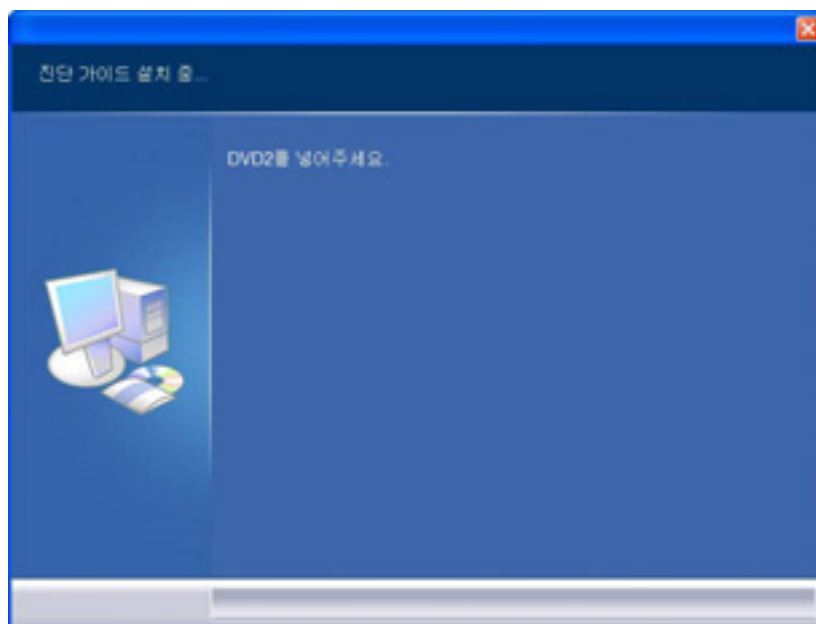


Chapter 2: Install Program (for XP)

Step 3) The installation process continues as shown in the below screen.

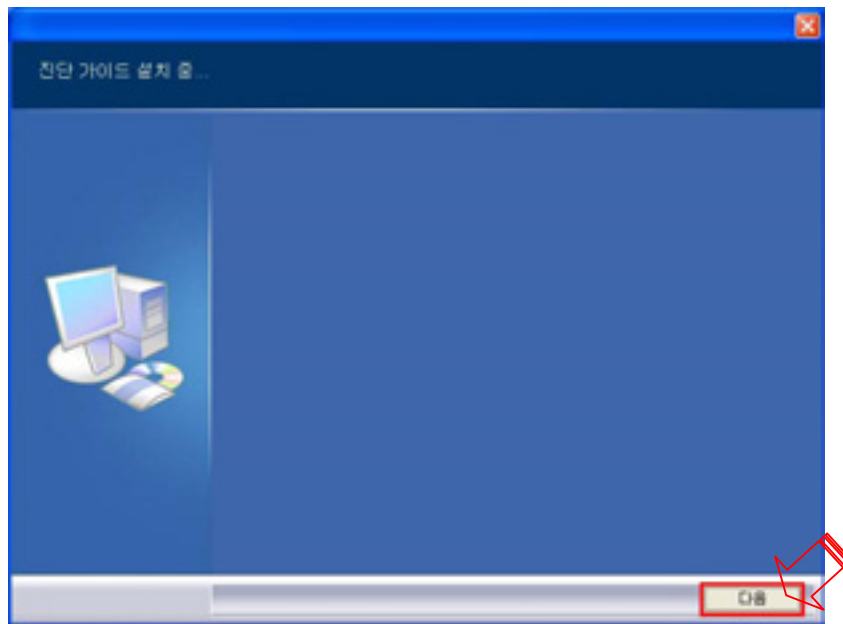


Step 4) Once the installation is complete, insert DVD 2 [Disk2: Diagnosis and Diagnosing Guide #2] into the drive as shown in the following screen.

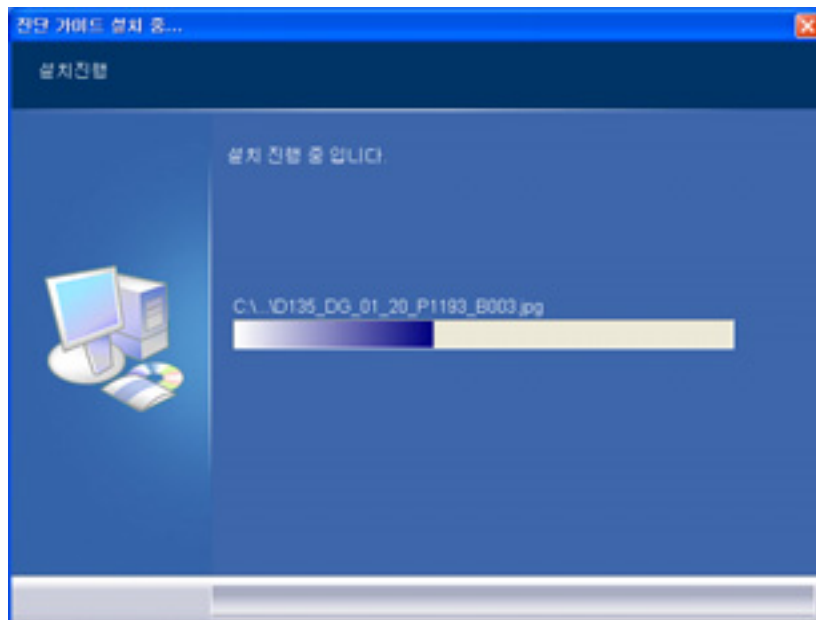


Chapter 2: Install Program (for XP)

Step 5) Click the [Next] icon to continue the next step.

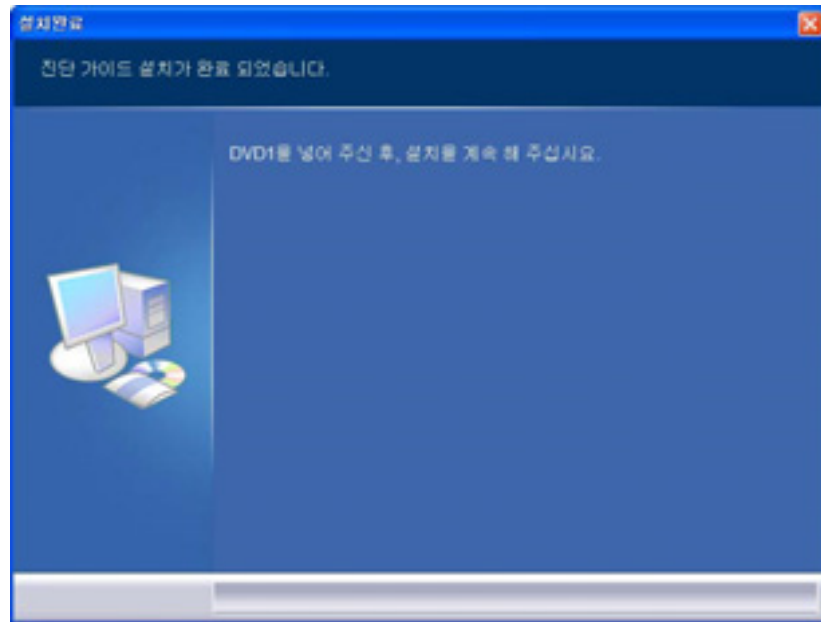


Step 6) The installation process continues as shown in the below screen

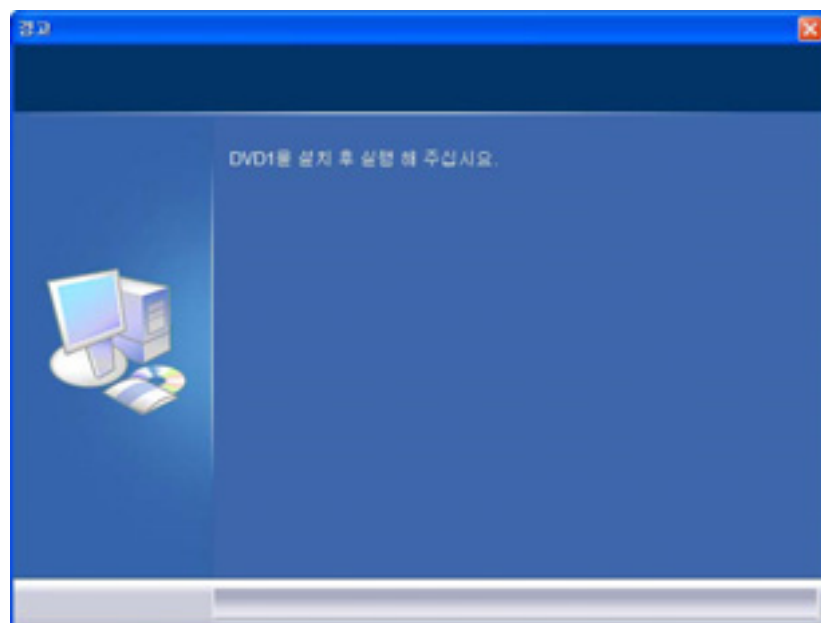


Chapter 2: Install Program (for XP)

Step7) Once the [Diagnosing Guide] installation is complete, you will see the following screen. Insert DVD 1 [Disk1:Diagnosis and Diagnosing Guide #1] and continue the installation of [Install Wireless LAN].



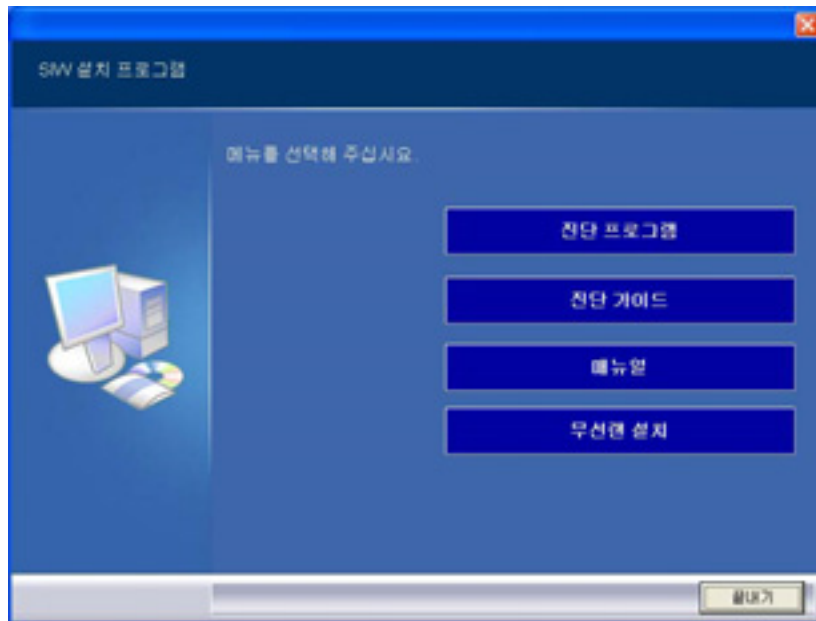
[DVD 1] If you had [DVD 2] inserted first, the following screen will be displayed. Continue the process by inserting [DVD 1] according to the screen message.



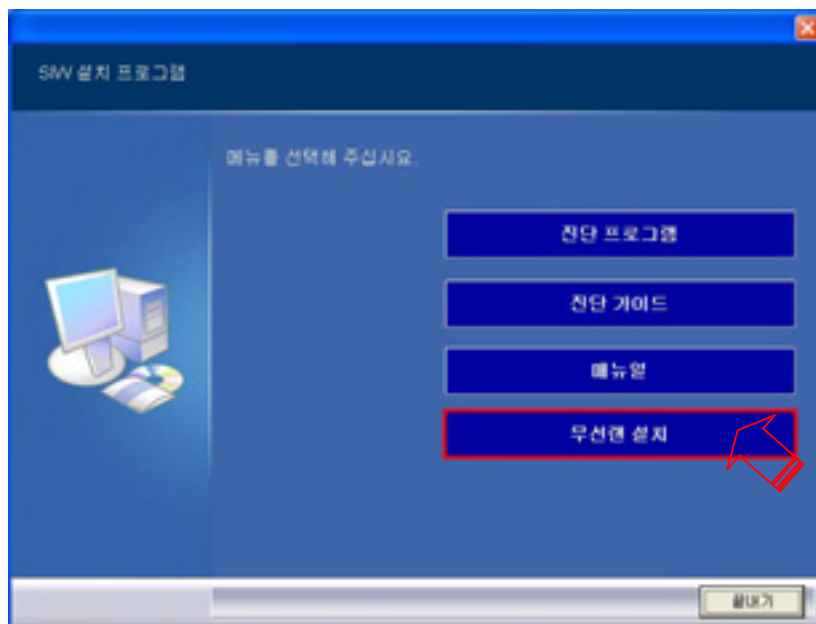
Chapter2: Install Program (for XP)

3. How to Install Wireless USB LAN Card (MX-54G) [Unicone]

Step 1) Insert the program installation DVD 1[Disk1: Diagnosis and Diagnosing Guide #1] into your laptop. You will see the following screen.

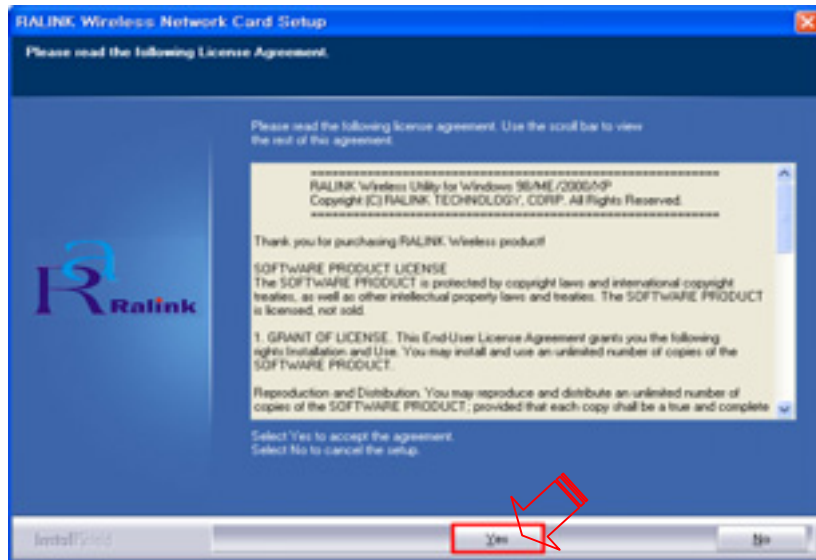


Step 2) Click the [Install Wireless LAN] icon to continue the process.

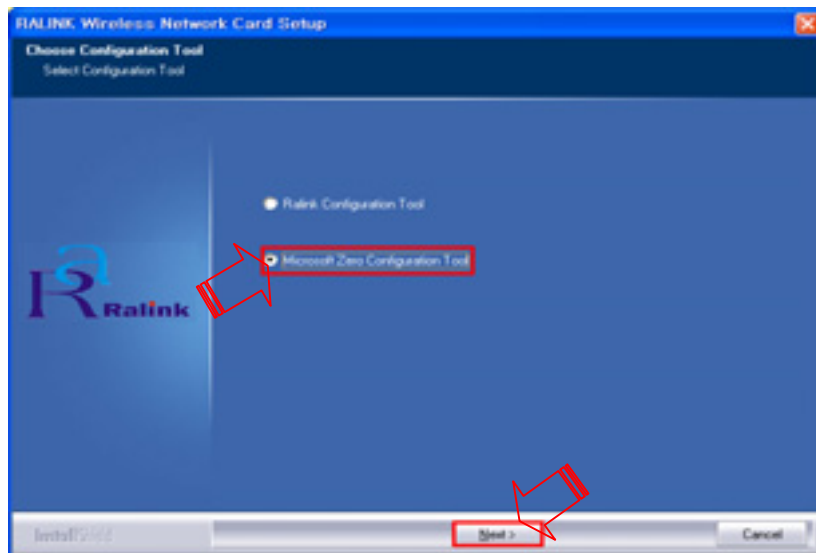


Chapter 2: Install Program (for XP)

Step 3) Once the installation process is complete, click [Yes].



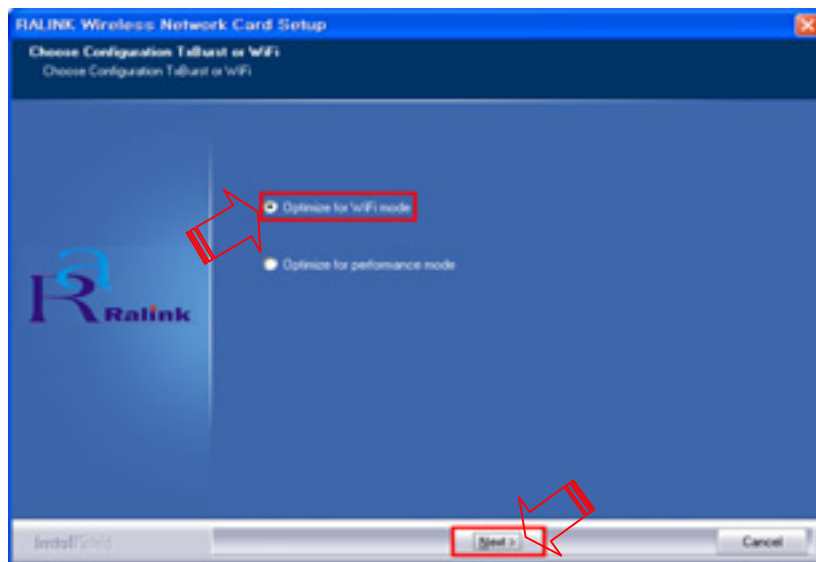
Step 4) Select [Microsoft Zero Configuration Tool], and click [Next>] to continue the process.



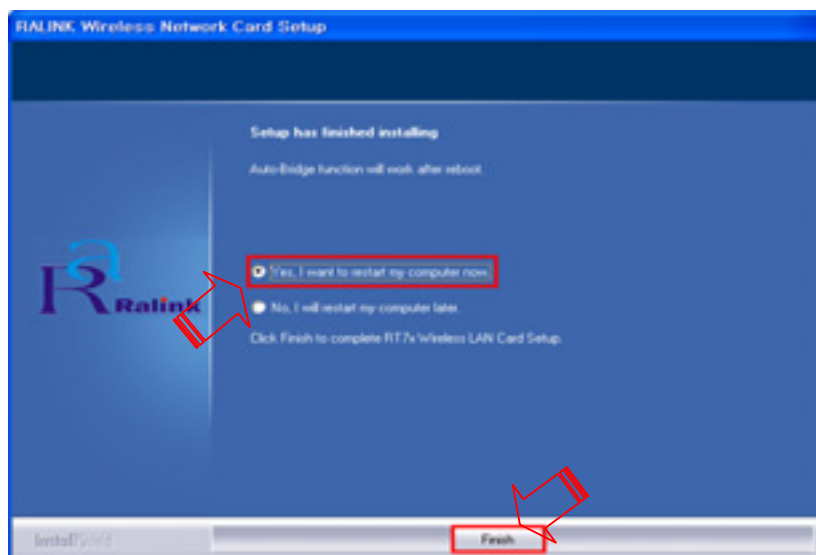
You must select Micro Zero Configuration Tool as shown in the above figure.

Chapter 2: Install Program (for XP)

Step 5) Select [Optimize for WiFi mode] and click [Next>] to continue the process. **Its processing speed may be delayed according to the PC status.**

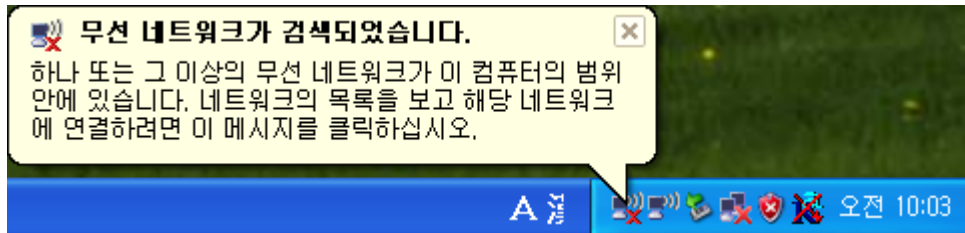


Step 6) Select [Yes, I want to restart my computer now.], and click [Finish]. **Please take your caution when the system is rebooted.**



Chapter 2 : Install Program (for XP)


Step7) Once the computer is rebooted, **turn on Diagnosing Module, and insert USB Wireless LAN(MX-54G) into the USB port of your PC.** Wireless icon is recognized. Double click the wireless icon.

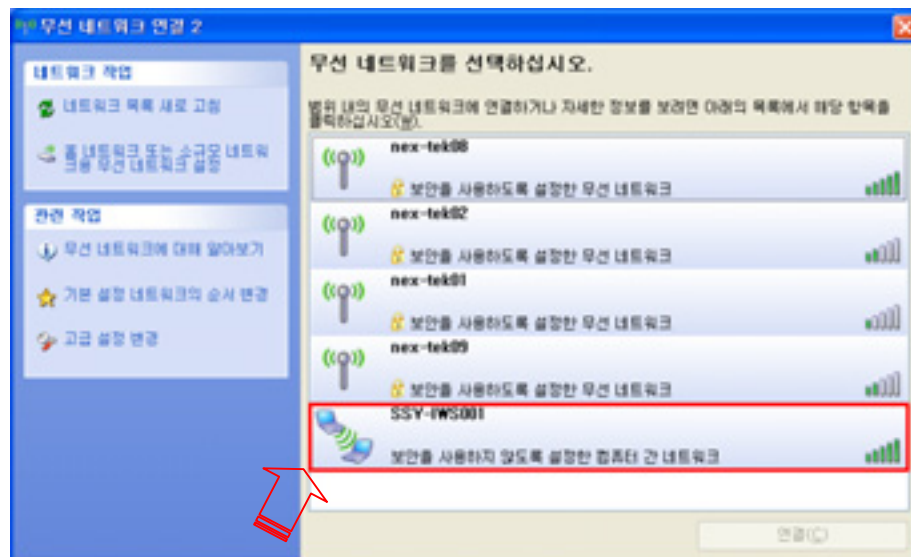


Wireless icon recognition status



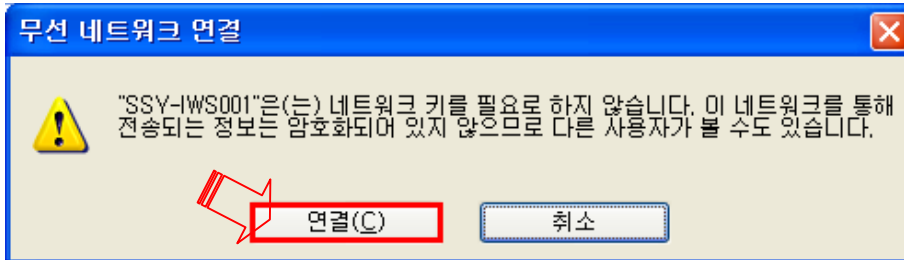
Step8) Utility will be executed as shown in the below screen. Point to [SSY-IWS001], and then double click it.

(If [SSY-IWS001] is not found, click  네트워크 목록 새로 고침 that is in the left upper corner.)

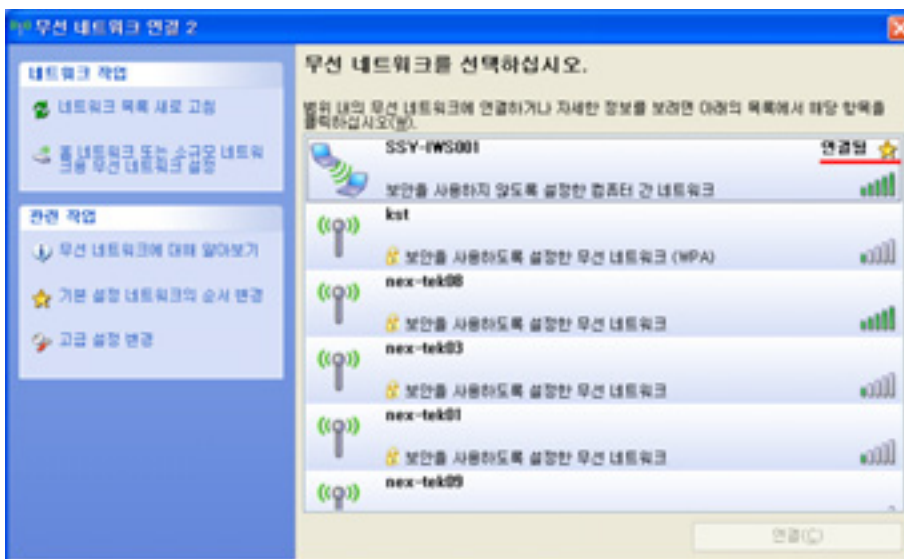
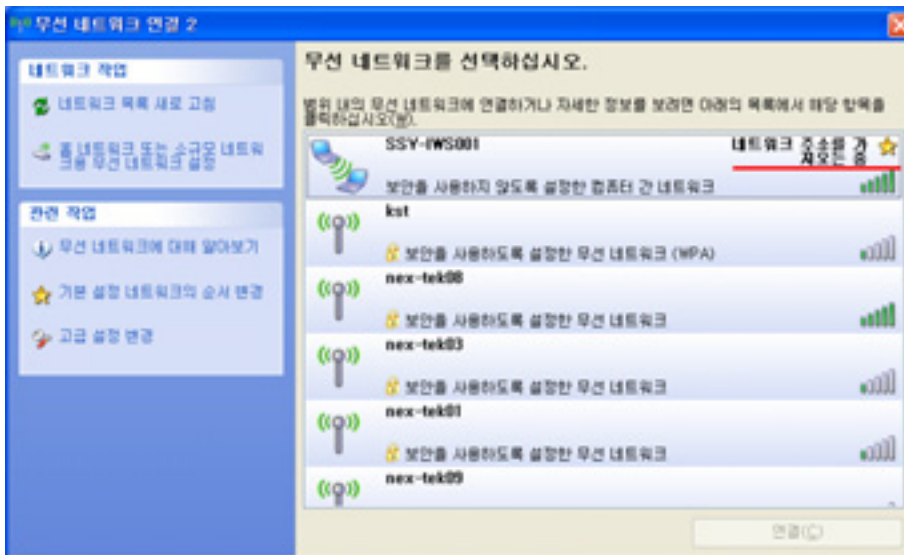


Chapter 2: Install Program (for XP)


Step9) Click [Connect (C)] to continue the process.

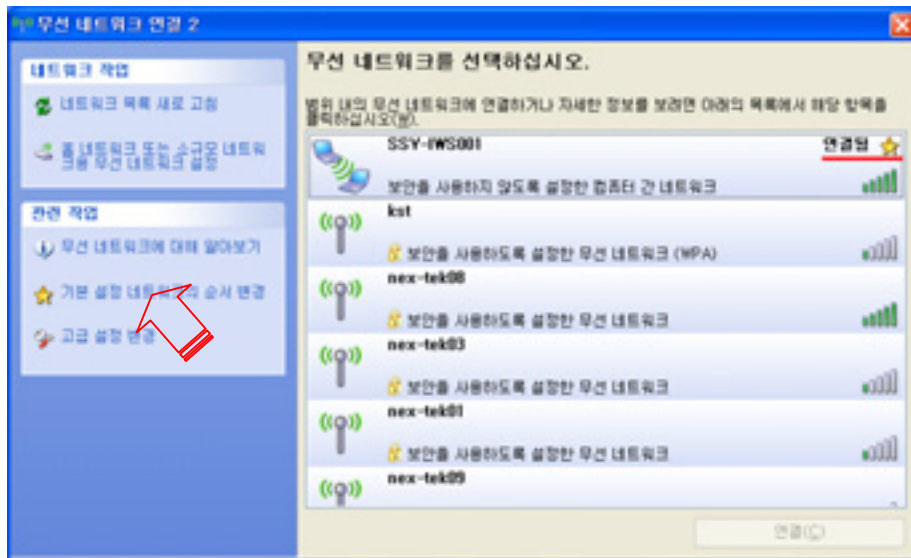


Step 10) Wireless network is connected as shown in the below screen.

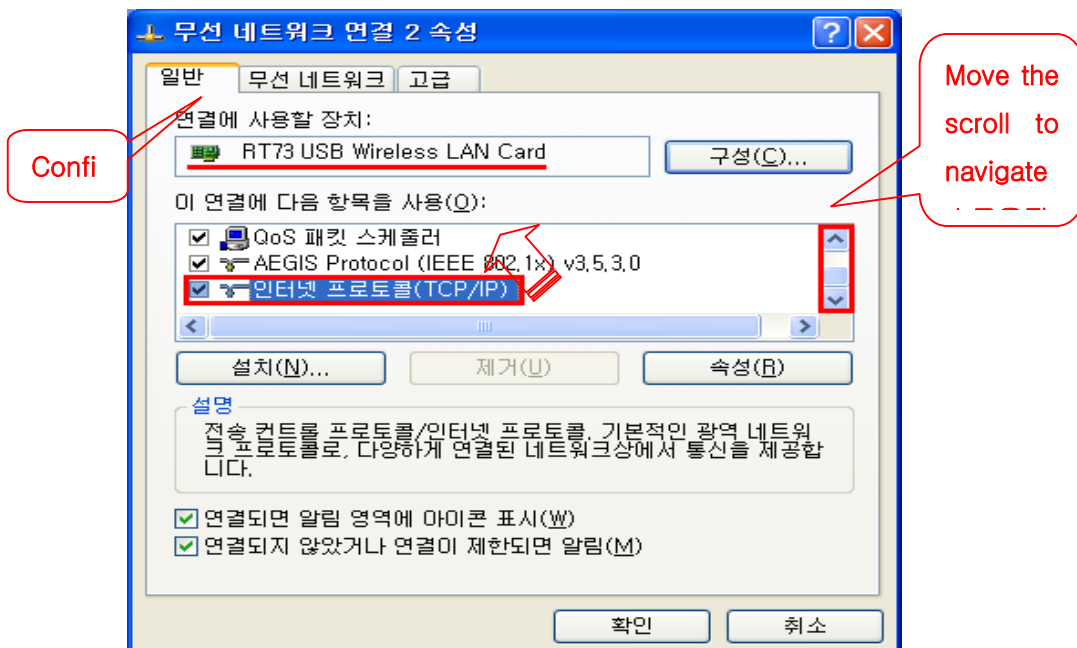


Chapter 2 : Install Program (for XP)

Step 11) Click  고급 설정 변경 that is in the left lower corner to continue the IP setting process.



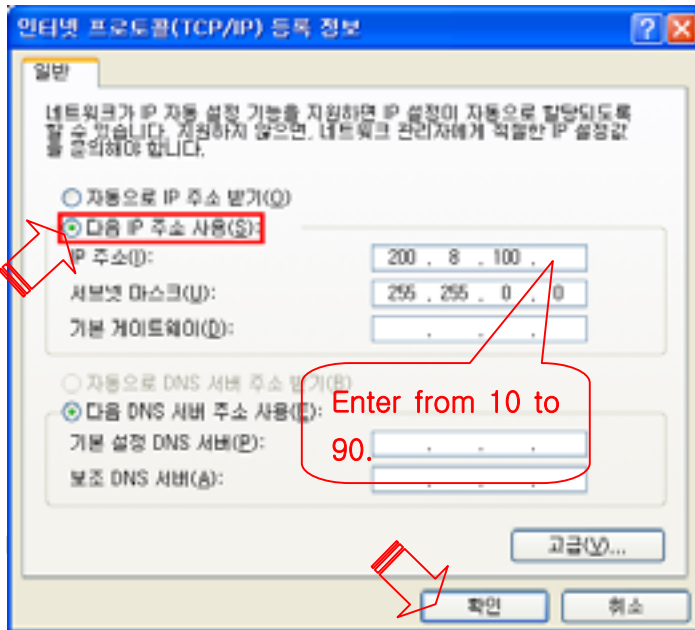
Step 12) Check if the device to be connected is [RT73 USB Wireless LAN Card] or not. Move the scroll to select [Internet Protocol(TCP/IP)], and double click it.



Chapter 2 : Install Program (for XP)

Step 13) You will see the below screen. Check the example, and continue the setting for IP and subnet mask.

Ex)



① Select [Use next IP Address(S)].

② Enter [IP Address(L)].

For IP address, enter 200. 8.

100 that is common in all cases, and enter any number from 10 to 90 into the final space.

③ Enter [Subnet Mask(U)]

Enter 255. 255. 0. 0.

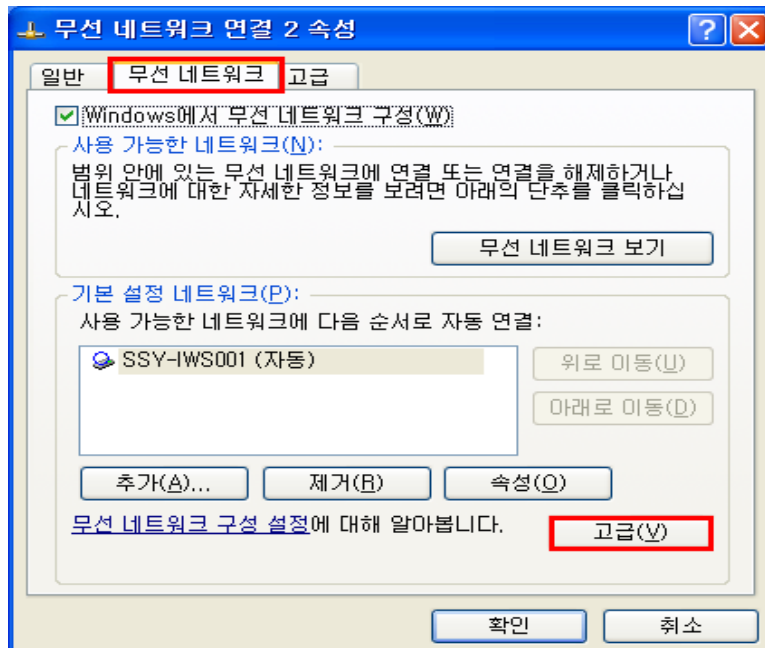
④ Click [OK].



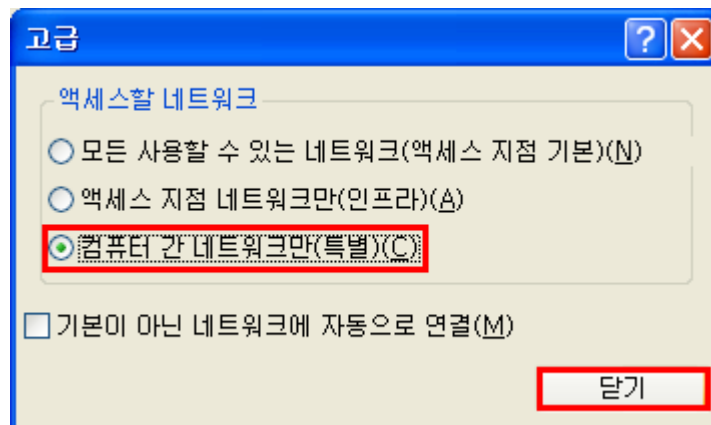
When your work site operates multiple machines, for the last bracket of the IP address, please enter any of different numbers from 10 to 90. If you see the IP conflict warning message after entering your random number, select another number from 10 to 90.

Chapter 2 : Install Program (for XP)

Step 14) In the Step 13) screen, after clicking the [Wireless Network] tab as shown below, click [Advanced (V)] to continue the process.



Step 15) Select [Inter-Computer Network (Special) (C)], and then click [Close].



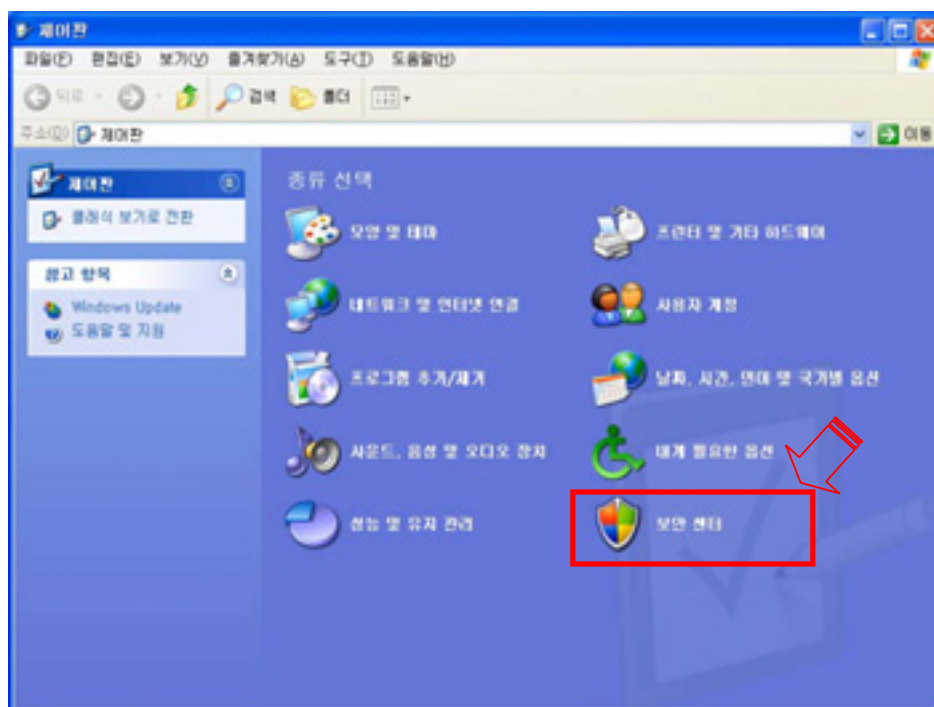
Step 16) Click [OK], and close the opening window to finish the setting process.

Chapter 2 : Install Program (for XP)

4. Firewall Setting

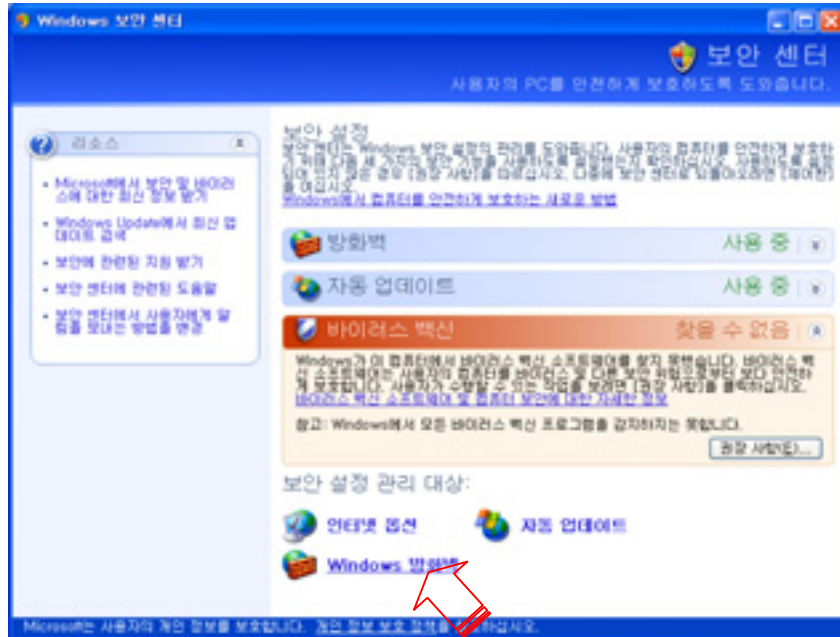
Step 1) Set the firewall according to the step-by-step process.

Execute [Start] → [Control Panel] → [Security Center].

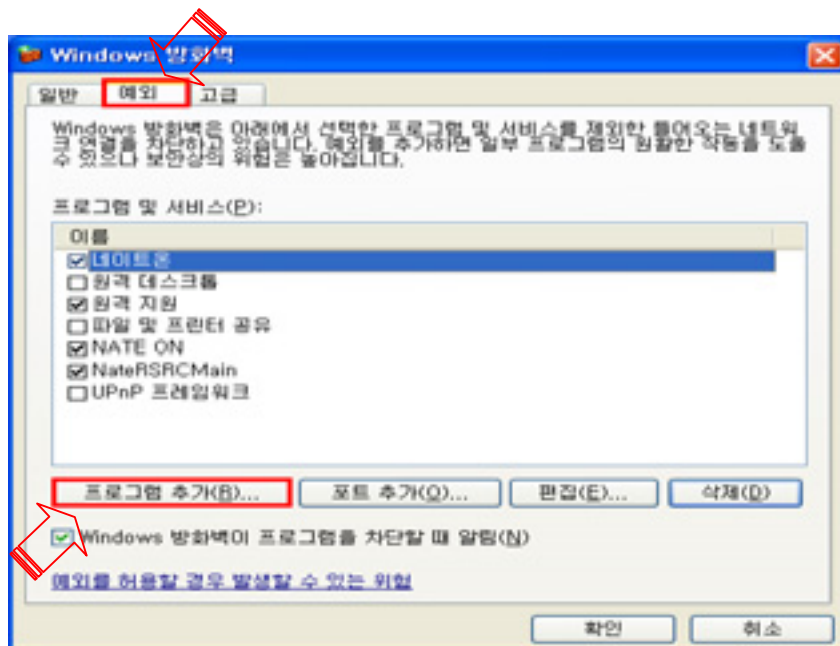


Chapter 2: Install Program (for XP)

Step 2) Click [Windows Firewall] to execute the firewall.

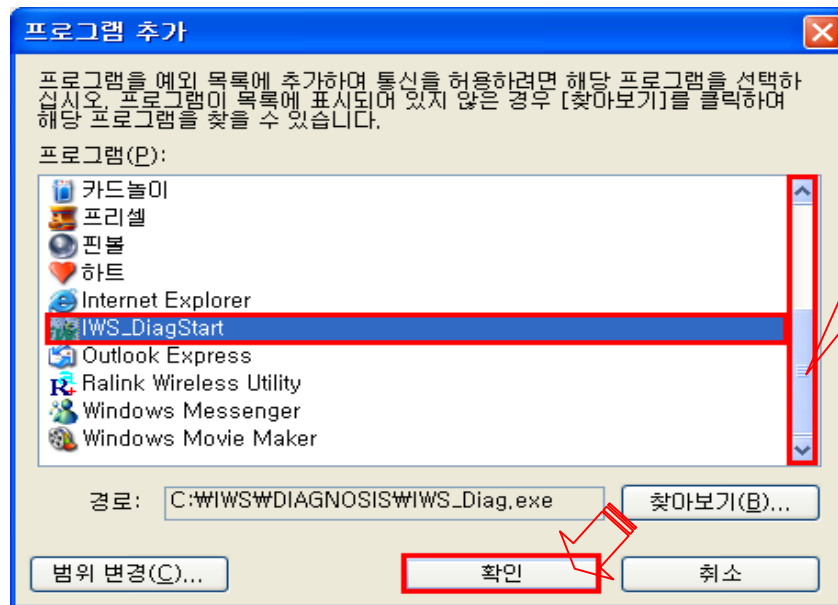


Step 3) Click the [Exception] tab, and then click [Add Program(R)..] as shown in the following screen.

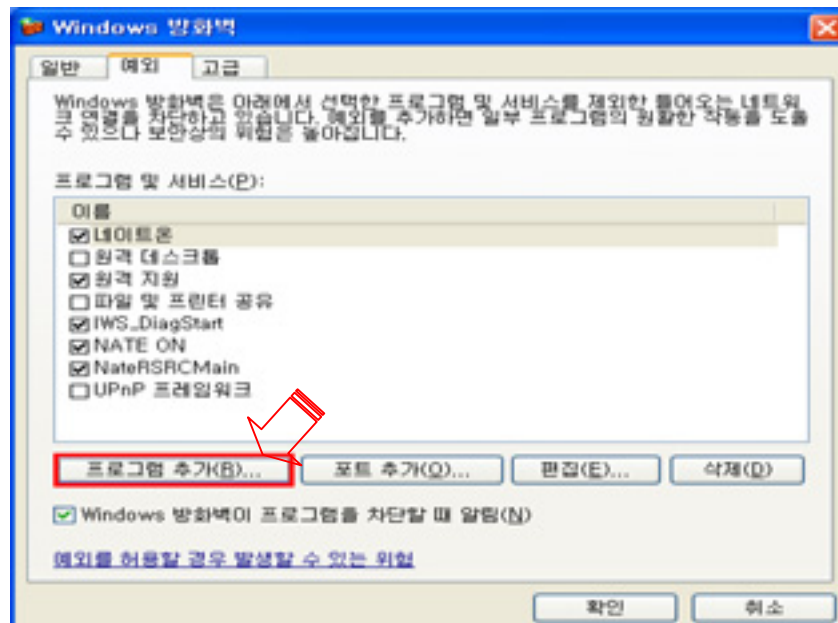


Chapter 2 : Install Program (for XP)

Step 4) Point to the [IWS_DiagStart] icon and click it. And then click [OK] to continue the process.

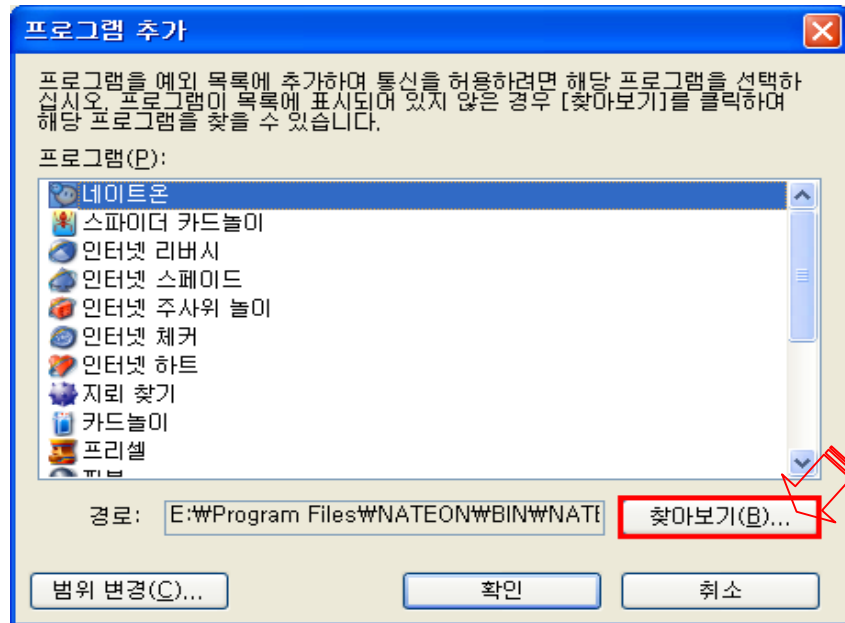


Step 5) Click [Add Program(R)...] one more time.

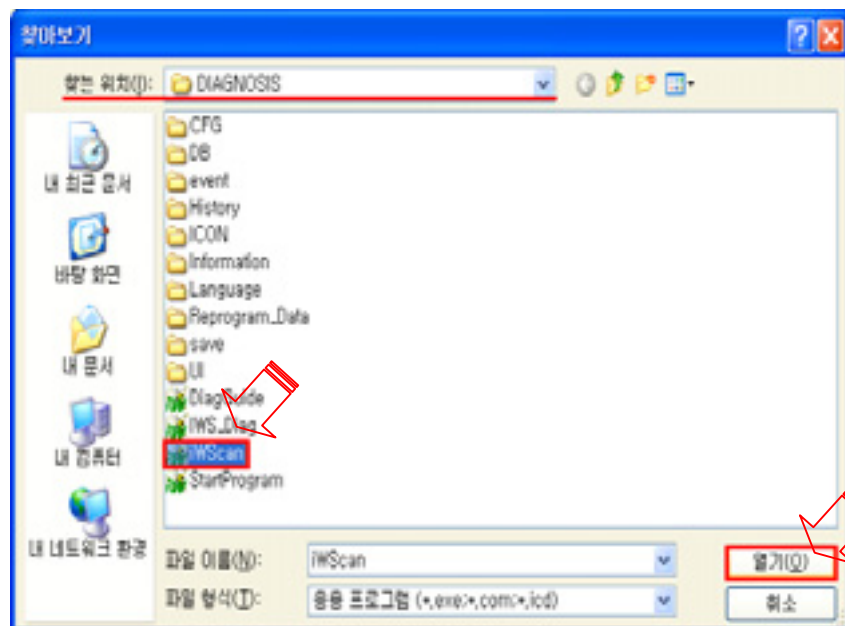


Chapter 2 : Install Program (for XP)

Step 6) Click [Search (B)...].

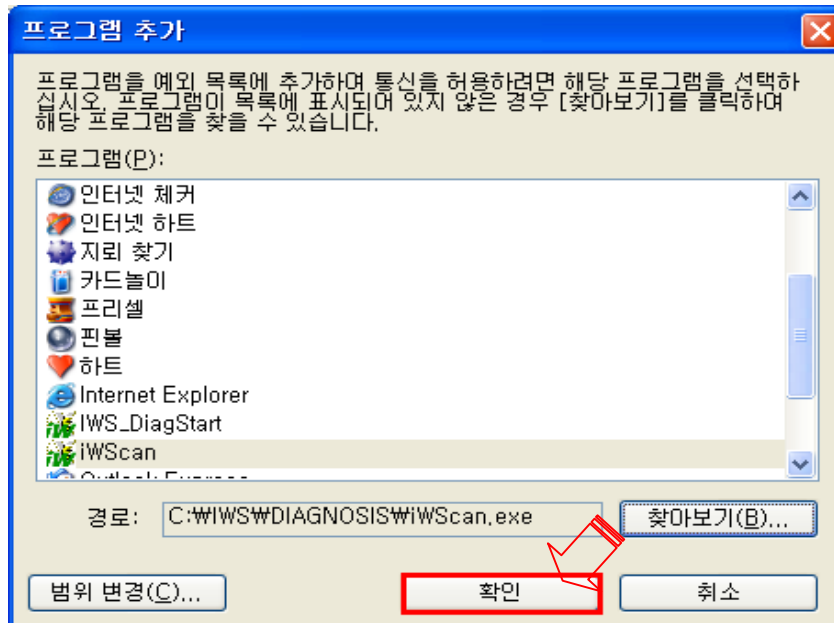


Step 7) You will see the following screen. The search path for [Location(I)] is "c:\IWS\DIAGNOSIS\IWSCAN.exe" in the folder where the program is located. After clicking [iWScan], and click [Open (O)] to continue the process.

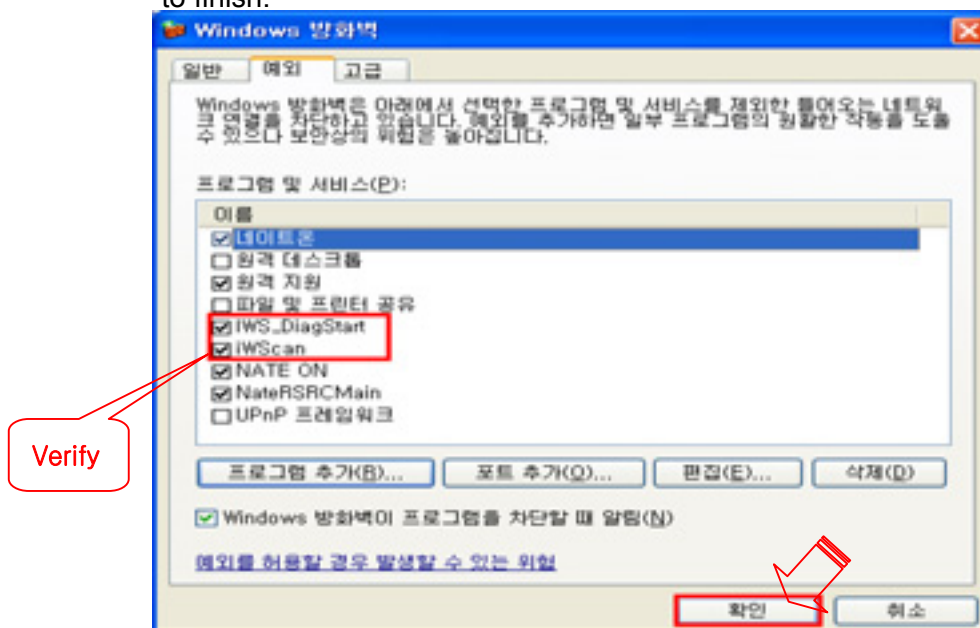


Chapter 2 : Install Program (for XP)

Step 8) You will see the following screen. Click [OK] to continue.



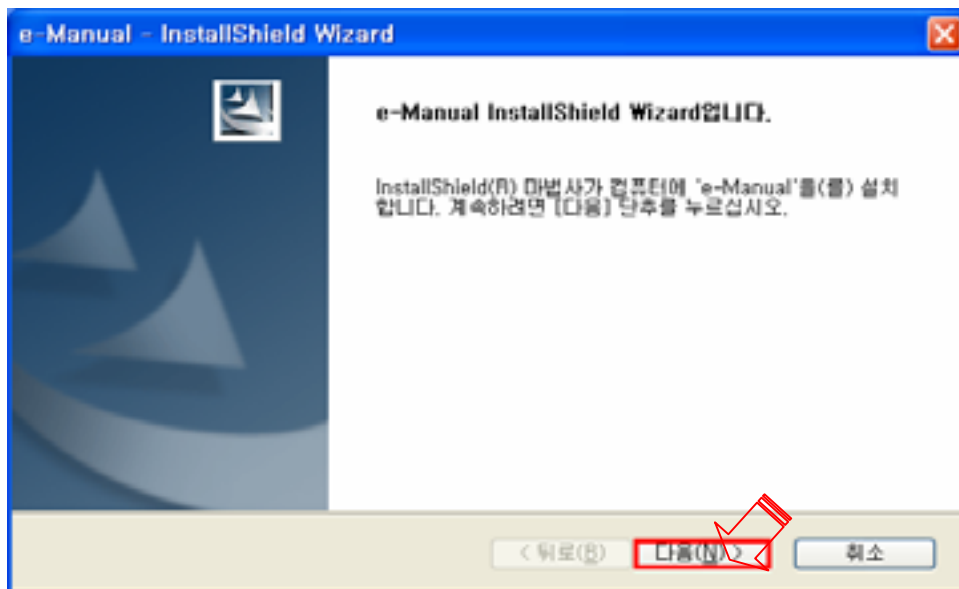
Step 9) You will see the following screen. Make sure that [IWS_DiagStart] and [IWSScan] are checked under the firewall exception tab, and then click [OK] to finish.



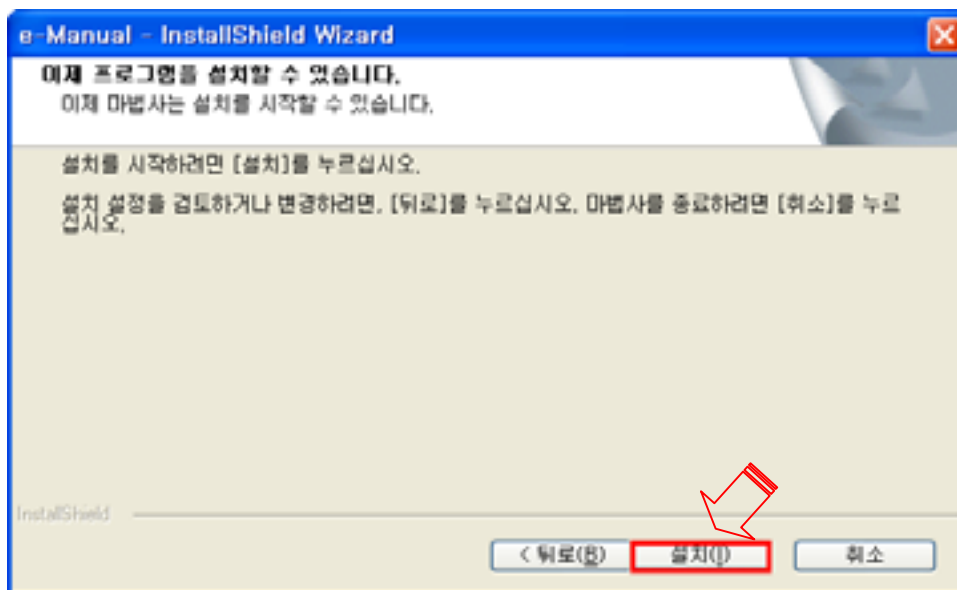
Chapter 2 : Install Program (for XP)

5. Chairman W Diagnosing Guide Installation

Step1) Insert the program installation DVD 3[Disk3:Chairman W Maintenance Manual] into your laptop. You will see the following screen. Click [Next(N)>] to continue.

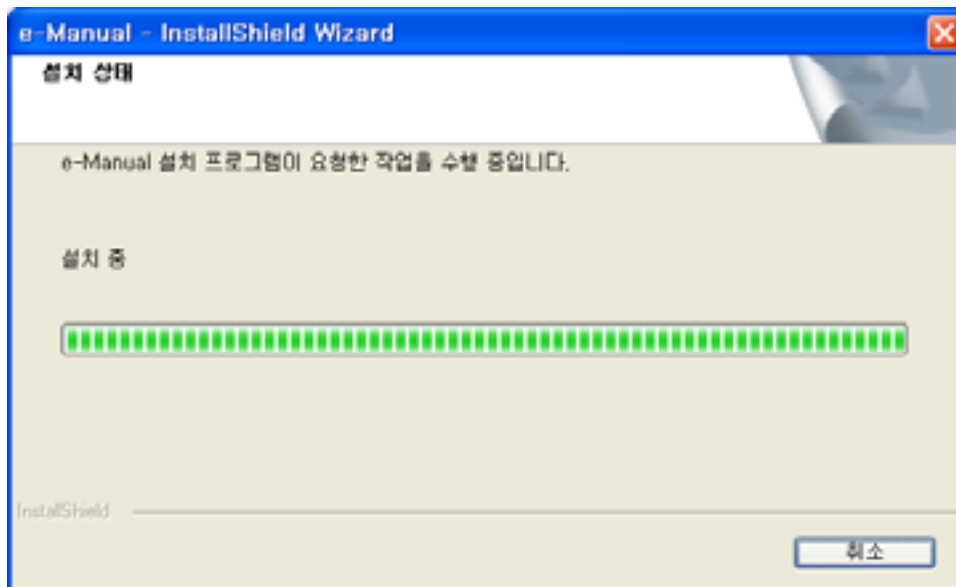


Step 2) You will see the following screen. Click the [Install (I)] icon to continue.

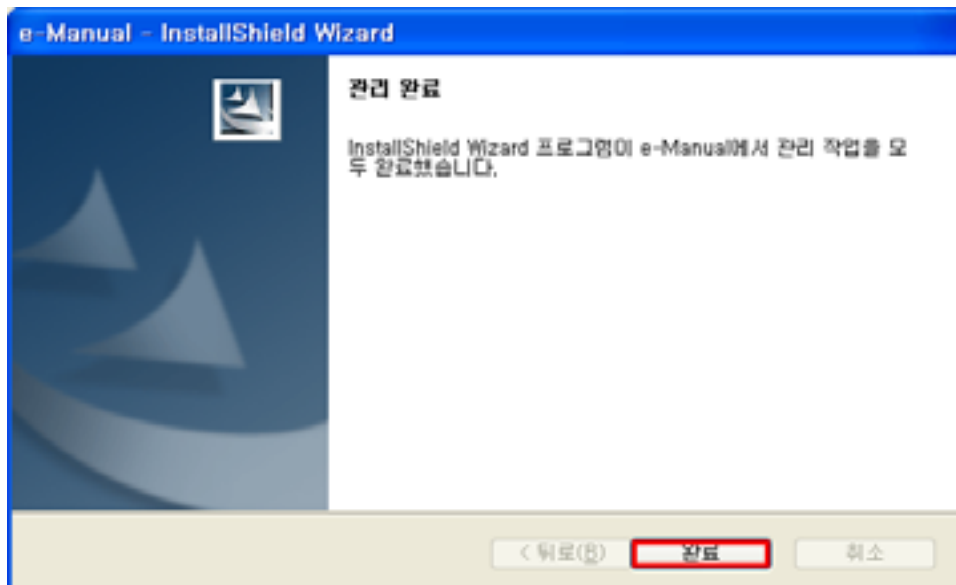


Chapter 2 : Install Program (for XP)

Step 3) The installation process continues as shown below.



Step 4) Click the [Finish] icon to finish the installation.

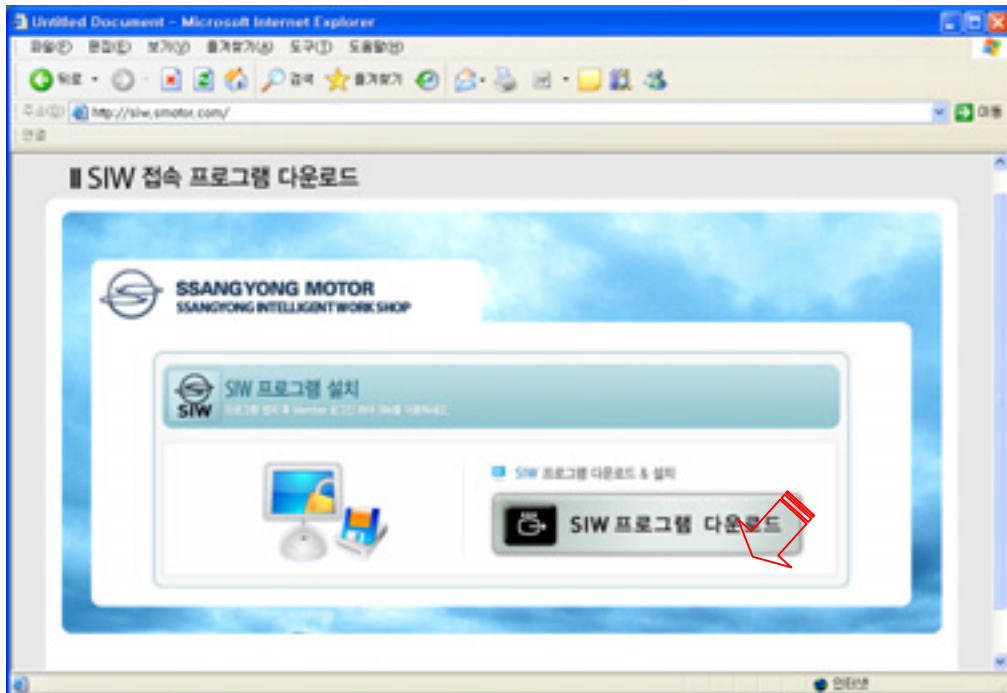


TIPS) You cannot use the diagnosing guide until all of diagnosing contents in DISK1, DISK2, and DISK3 have been installed.

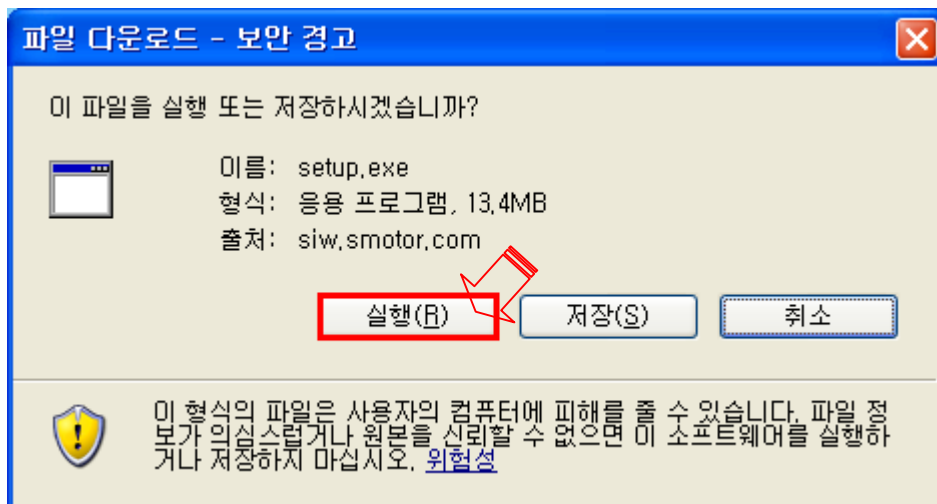
Chapter 2 : Install Program (for XP)

6. Install SIW Access Program and Configure Program Settings

Step1) Type [http://siw.smotor.com] into the internet address window, and click the [Enter] key. You will see the screen as shown below. Click [SIW Program Download] to continue.

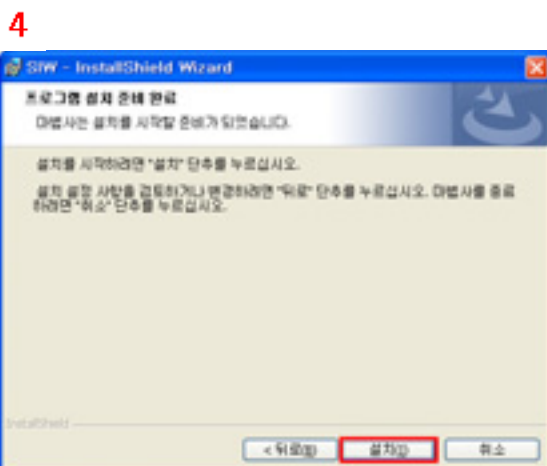
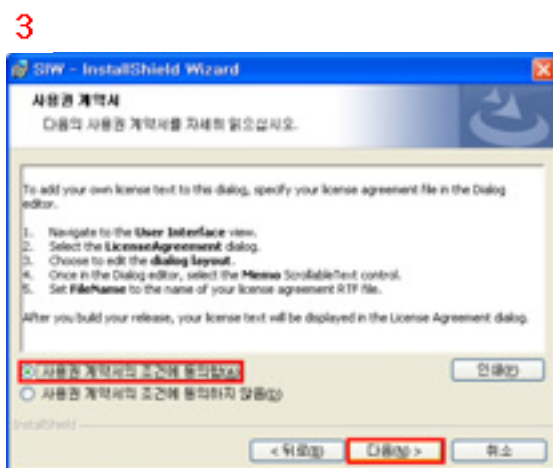
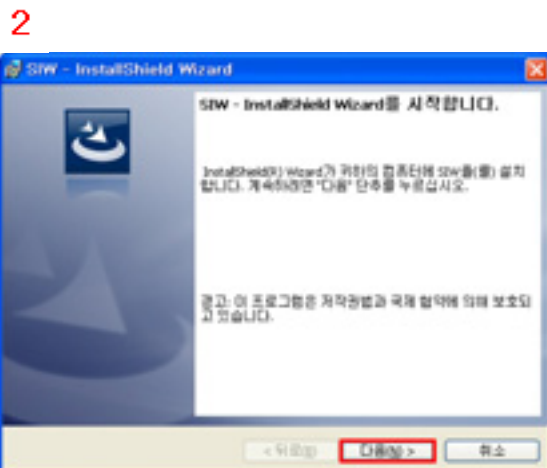
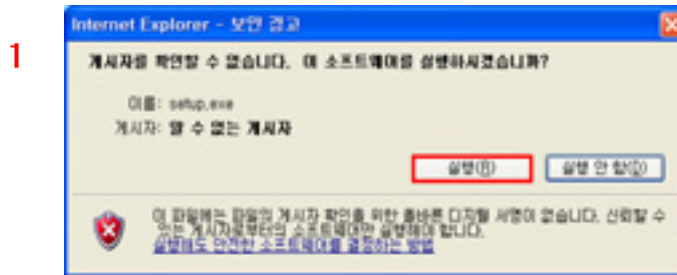


Step 2) You will see the following screen. Click the [Execute] icon to continue.



Chapter 2 : Install Program (for XP)

Step 3) You will see the following screen when the installation process has been continued. Keep continuing as shown in the ones below.



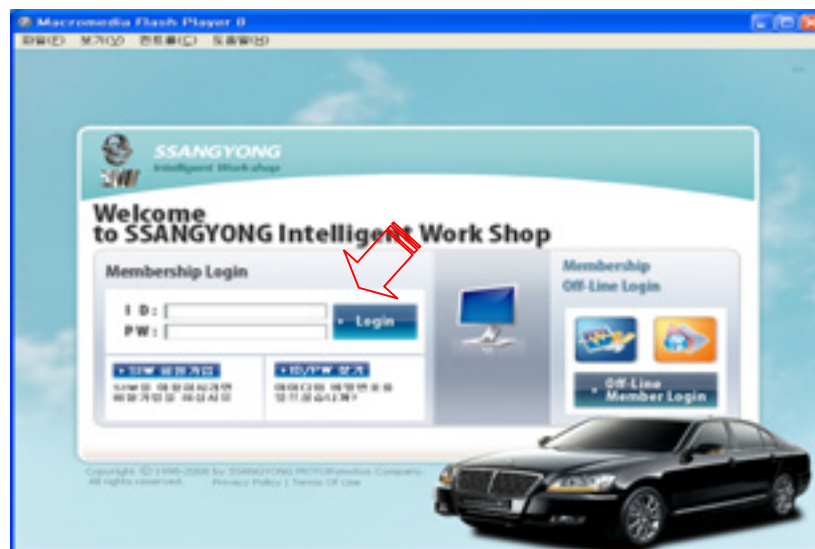
Chapter 2 : Install Program (for XP)

Step 4) An executable icon is created on the desktop as shown below.

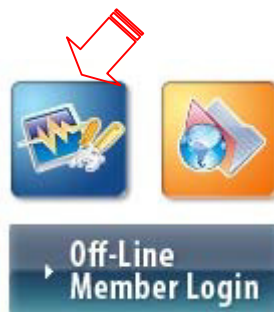


Step5) The clicking the icon takes you to get access and see the login screen as shown below. Enter ID / Password to be logged in.

TIPS) If this is the first time you have been logged in, you must sign up the membership.



TIPS) If you would like to use the diagnosing function without server connection, you can execute the diagnosing program by the use of the Off-Line Member Login function.



Chapter 2 : Install Program (for XP)

Step 6) You will gain access to the server as shown in the one below. To use the diagnosing function, select the Vehicle Maintenance/Repair item.



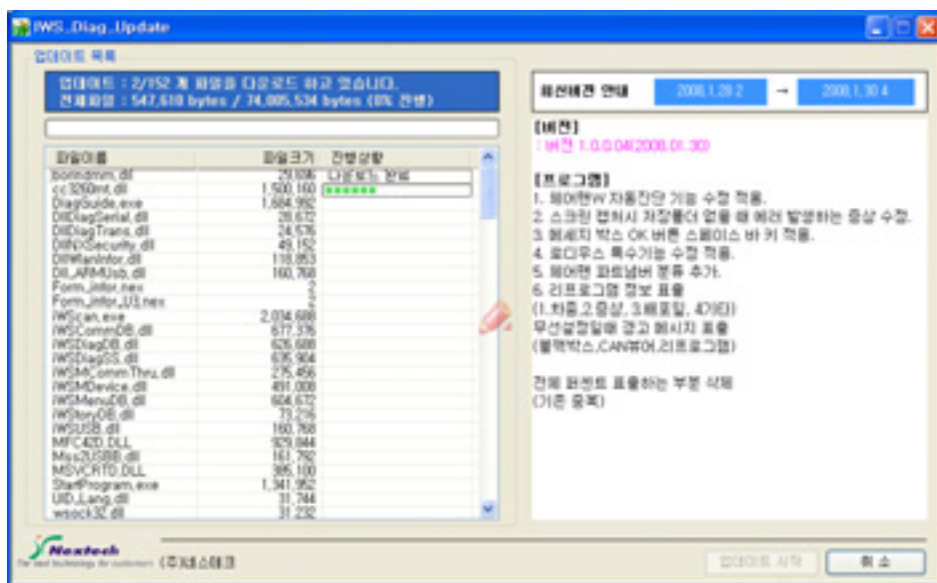
Step7) You will see a diagnosing function selection screen like the one below, and no matter what function you may choose, the diagnosing program will be executed.



Chapter 2: Install Program (for XP)

Step 8) If there is an item to be updated before the diagnosing program is launched, automatic update will be continued.

TIPS) Update is not implemented whenever connecting to the program; it is only processed only when there is an item to be updated.

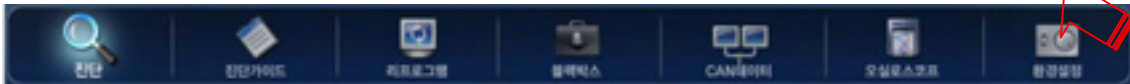


Step 9) Once the update has been complete, the diagnisg program will be executed.



Chapter 2 : Install Program (for XP)

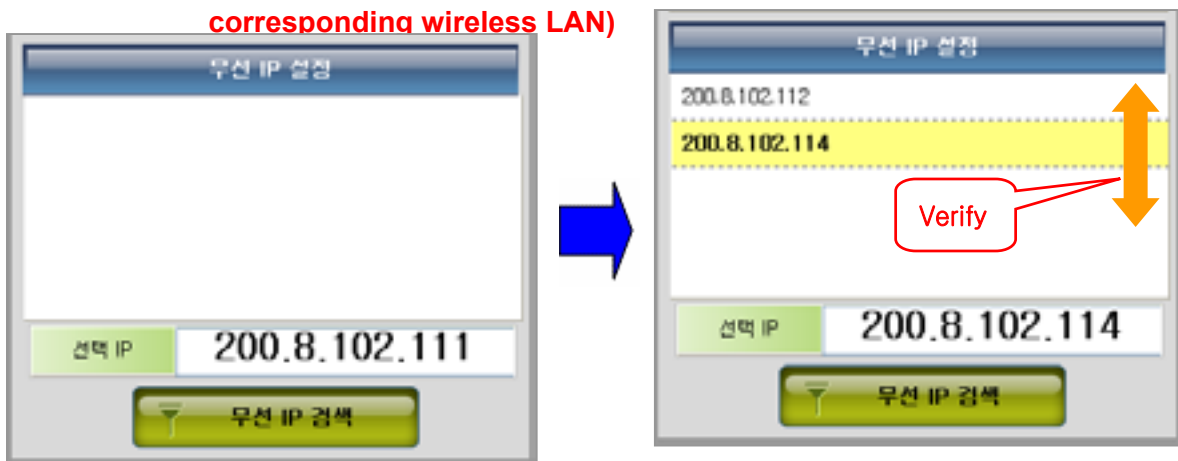
Step 10) Click the [Configuration] icon in the upper right corner of the screen to continue.



Step 11) You will see the following screen. Click the [Search Wireless IP] icon.



Step 12) If the wireless LAN is found, you will see the following screen. Double-click the wireless LAN IP. **(Verify that the selected IP is the same by clicking the corresponding wireless LAN)**



If a number of diagnosis modules are operated in the same work site, be sure to verify the IP.

Chapter 2: Install Program (for XP)

Ste13) Click [Save Setting] to finish the process.



There are multiple USB 2.0 ports in your laptop.



It is important to keep connecting the USB wireless LAN card and USB cable only to the laptop USB port that has firstly recognized the device or installed. If they are connected to a different port, you must reset the device from the scratch.

Chapter 3: How to Connect to Vehicle

- How to connect to the vehicle and select the diagnosing program.

1. Check the location of vehicle diagnosing connector - As the most of new cars released since 2002 are designed to meet the OBD-II Communication Regulations, all of them are equipped with the OBD-II diagnosing connector, and have the diagnosing connector mostly above the brake pedal below the driver handle.



[Ssangyong 20Pin]



[Ssangyong 14Pin]



[OBD-II]

Figure 3.1 Diagnosing Connector Location

2. Connect the vehicle diagnosing connect to DSM, using the diagnosing cable.



Figure3.2 Diagnosing Cable Connection