

Installation & Replacement

Follow the individual procedures to perform the notebook's installation and replacement of various major components.

Z90R Series Notebook is a product balanced, novelty and mobility in an elegantly designed housing. The key installable and replaceable items include the **Memory**, **CPU module**, **MINIPCI Wireless Lan module**, **Optical drive module** and **HDD module**.

Be sure to follow the safety instructions described from the start to safeguard the notebook against any potential damages.

This chapter includes the following items:

- **Appropriate Tools**
- **Precautions**
- **Memory Installation & Replacement**
- **CPU Module Installation & Replacement**
- **MINIPCI Wireless Lan Module Installation & Replacement**
- **Optical Drive Module Installation & Replacement**
- **HDD Module Installation & Replacement**

TOOLS

Appropriate Tools

The illustrations below show the appropriate tools that should be used for the notebook's service and repair.

**CROSS
SCREW-
DRIVER**

Phillips-head Screwdriver

Use a Phillips-head screwdriver to fasten/remove the K- or B-typed screws.



**FLATHEAD
SCREW-
DRIVER**

Single-Slotted Screwdriver

Use a single-slotted screwdriver to lock/unlock the flexible cable connector locks



TWEEZERS

Tweezers

Use a pair of tweezers to remove/insert flexible cables.



**SPACER
SCREW-
DRIVER**

Spacer Screwdriver

Use a spacer screwdriver to fasten/remove spacer screws or hex screws.



PLIERS

Pliers

Use a pair of pliers to handle regular cables.



**VACUUM
HANDLING
TOOL**

Vacuum Handling Tool

Use Vacuum handling tool to handle CPU.



**MOLEX
CPU SOCKET
TOOL**

Molex CPU Socket Tool

Use Molex CPU Socket tool to lock/unlock the Molex socket of CPU.



Width: 4.00mm Depth: 0.45+/-0.1mm The angle of tip: approximate 9 degree

**INSERTION
AND
EXTRACTION
TOOL FOR
FPC
CONNECTOR**

Insertion and extraction tool for FPC connector

Use insertion and extraction tool for FPC connector to handle locking and unlocking of FPC connectors.



CAUTIONS

Precautions

Before you perform any service and/or repair on the notebook, please follow the steps below first.

1. Be sure that the notebook is powered down.
2. Disconnect the AC plug from the left side of the notebook (on the illustration below).



3. Turn the notebook over. Unlock and hold the 2 latches, and remove the battery .



4. Remove all rings, watches and any other metal objects from your hands.
5. Always wear a ground strap on your hand to protect the notebook from static discharge.

Memory Upgrade

Two SODIMM socket supported for expansion up to 1024MB total (512MB DDR SO-DIMM x2).

First, remove AC-power and battery.

Upgrading memory

1. Find the memory socket under the Keyboard (Fig1) and bottom case (Fig2) as following photos and upgrade memory by the process of item2 and item3.

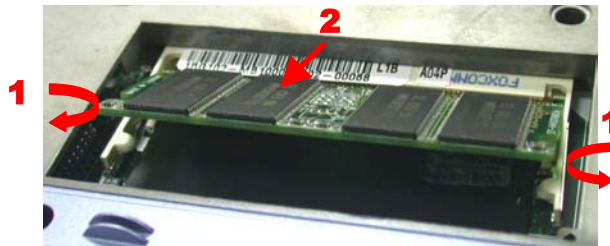


Fig1

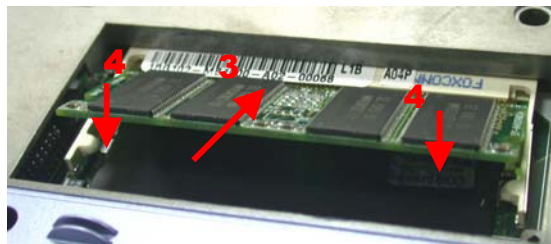


Fig2

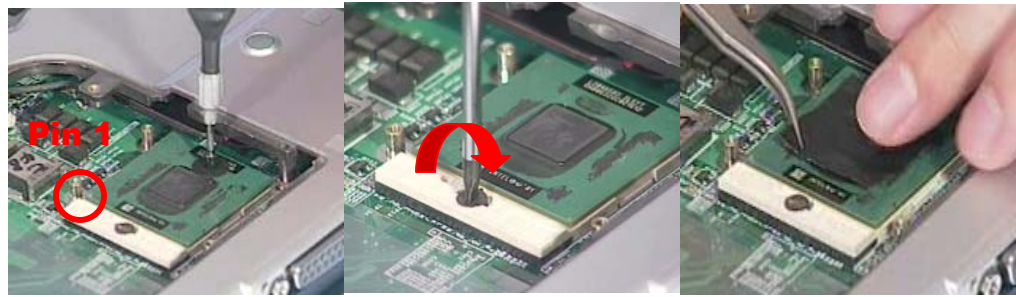
2. If there is an existing memory, remove it by opening the latches (no. 1), which will pop the module up to a 45° angle, and then pulling out the module in that angle (no. 2).



3. Insert new memory at the same 45° angle (no. 3) and press down (no. 4) until it clicks into the latches.



INSTALLATION & REPLACEMENT



2. Put the CPU thermal pad on the CPU diode.
3. Place the CPU Heat sink module onto it.
4. Secure 4 screws(M2*6L) in sequence.
5. Connect the FAN cable and install the CPU fan in the proper location. /
Finally, Secure 2 screws(M2*6L) here .
6. Secure 1 screw here to fix cover.



**MINIPCI
WIRELESS
LAN MODULE
INSTALL**

MINIPCI Wireless Lan Module Installation & Replacement

The illustrations below show how to assemble and install the MINIPCI Wireless Lan Module into the notebook.

1. Take MINIPCI Wireless Lan Module.
2. Connect the black main antenna cables to main pole and connect white auxiliary antenna cable to auxiliary pole.
3. Install the MINIPCI Wireless Lan module board well.
4. Secure one screw here to fix the cover.



**Optical
MODULE
INSTALL**

Optical Drive Module Installation & Replacement

The illustrations below show how to assemble and install the Optical drive module into the notebook.

1. Push the Optical drive module into the socket.
2. Secure 2 screw(M2*4L) here to fix it.
3. Place the rubber well here.



**HDD/
BATTERY
INSTALL**

HDD Module Installation & Replacement

The illustrations below show how to install the HDD module and into the notebook.

**HDD MODULE
INSTALL**

Install HDD Module

The illustrations below show how to install HDD module.

1. Slide the HDD to connect to its connector.
2. Secure 3 screws (M2.5*8L) here to fix the HDD.

