

COC1

INSTALL & CONFIGURE COMPUTER SYSTEM

What is Computer

- Is an electronic device that manipulates information and data.

Five(5) major components of Computer

- System Unit
- Monitor
- Mouse
- Keyboard
- Speakers

System Unit

- Motherboard – is a printed circuit board which contains all major components of a computer.
- Power supply unit – which gives power on computer (MoBo), converts the AC to DC.
- RAM (Memory Card/Module) – is the device which temporary saves a data on the computer when a computer turn ON.
- Hard Disk Drive (HDD) – which the device permanently saves data or information.
- Central Processing Unit (CPU) – the brain of computer.

Others parts:

- ✓ BIOS – is the configuration of the computer.
- ✓ CMOS – Bios system and saves the date & time.
- ✓ Northbridge – Graphics Controller Hub (GCH)
- ✓ Southbridge – Input/Output Controller Hub (I/OCH)
- ✓ 20-24pin ATX Main Power Connector – MoBo power and all components.
- ✓ P4 ATX 12V Power Connector – Back Panel & CPU

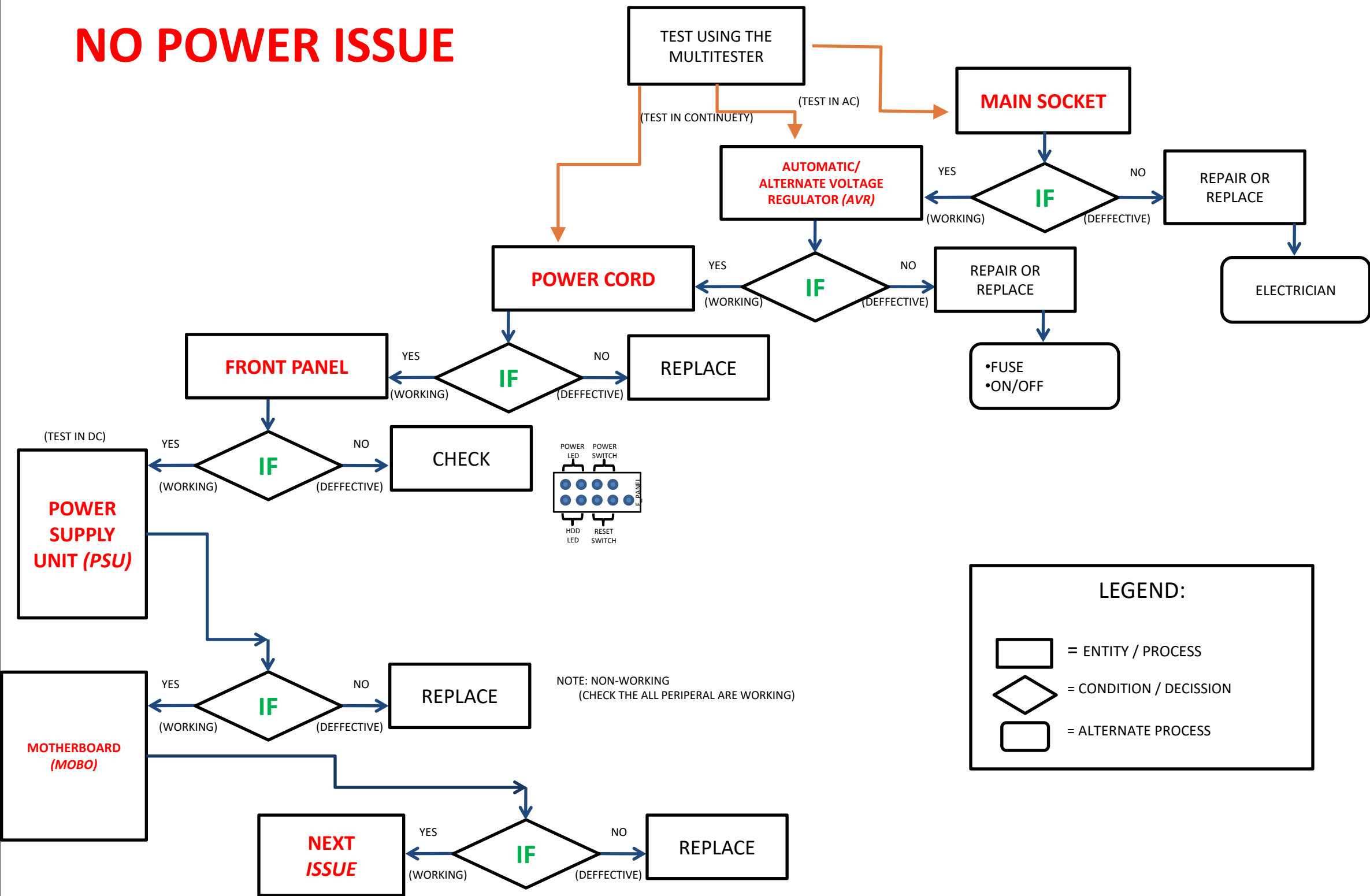
COLOR:

RED	= 5V	GREEN	= POWER ON	WHITE	= STANDBY MODE
YELLOW	= 12V	GRAY	= POWER OK/GOOD	BLUE	=
ORANGE	= 3.3V	PURPLE	= -12V		

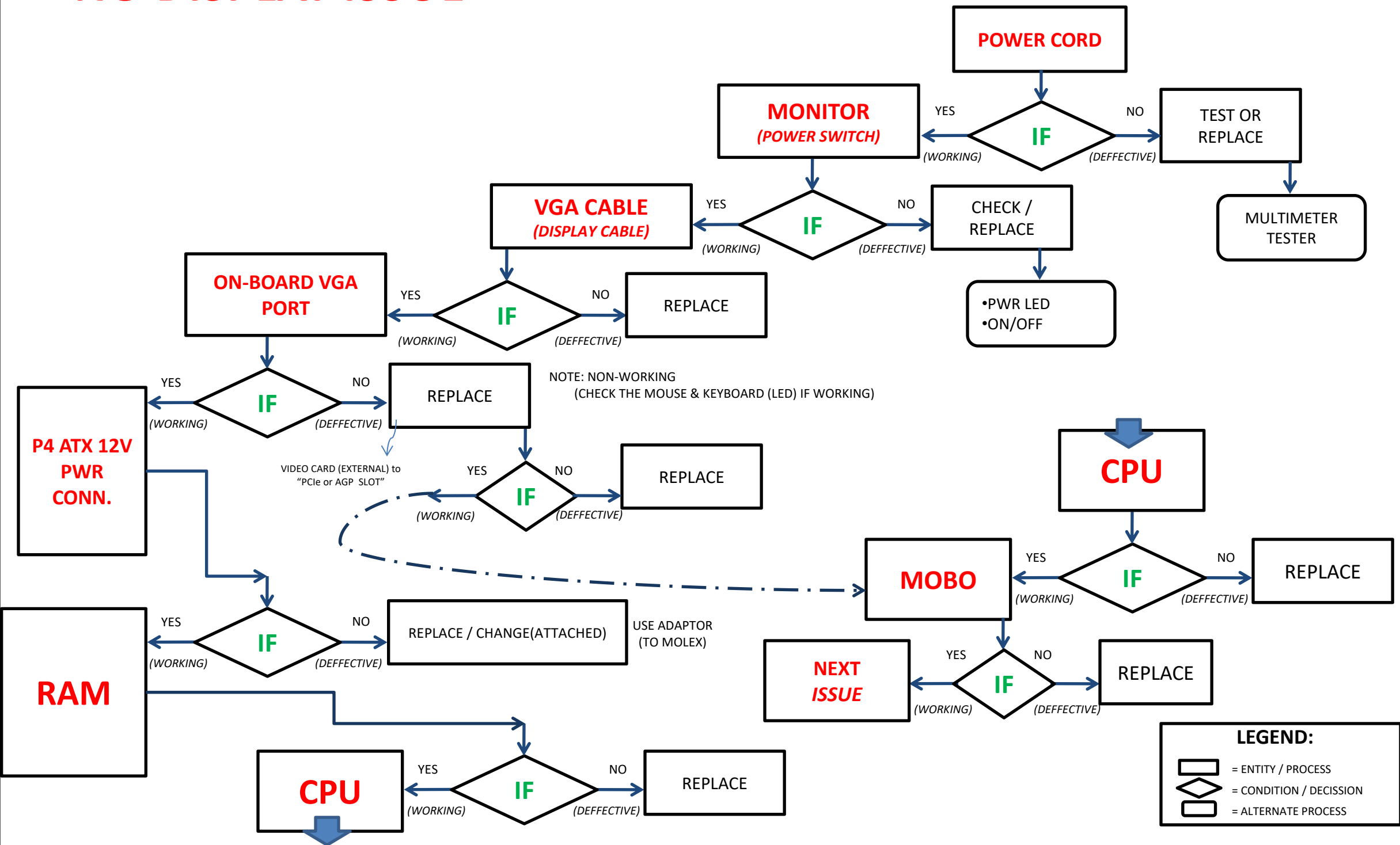
Computer Troubleshooting

(Common issue's FLOW CHART)

NO POWER ISSUE



NO DISPLAY ISSUE



HARD DISK DRIVE (HDD)

- POWER CONNECTOR (IDE TYPE OR SATA TYPE)
- BIOS CONFIGURATION

OHS SUMMARY

- MAKE SURE UNPLUG THE SOURCE OF POWER (AVR).
- UNPLUG ALL PERIPHERALS AND POWER CORDS
- REMOVE ALL METAL / ELECTRONICS OBJECT ON YOUR BODY SUCH AS WATCH, BRACELET, RING, ETC. TO AVOID SHORT CIRCUIT.
- DISCHARGE YOUR BODY ELECTRO-STATIC USING ANTI-STATIC WRIST WRAP.
- BE CAREFUL ON THE REMOVING OF THE COMPONENTS SUCH RAM, HDD AND MOBO.
- WORK IN COOL AREA TO AVOID PERSPIRATION.
- TAKE AWAY ANY FOODS AND DRINKS OR ANY LIQUID NEAR YOUR WORK AREA.
- STORE SCREW'S IN A CONTAINER OR USE SMALL MAGNET TO AVOID LOSING.

TIP FOR BIOS *(SYSTEM BIOS)* SETTINGS

- SET-UP IN “LOAD SETUP DEFAULT” OR “LOAD OPTIMIZE DEFAULT” ALWAYS.

USING FLASH DRIVE IN FORMATING PC (BOOTABLE FLASH DRIVE)

- FLASH DRIVE (32GB)
 - OS
 - DRIVER
 - SOFTWARE
 - ANTI-VIRUS

BOOTABLE FLASH DRIVE NEEDS:

- FLASH DRIVE (32GB) “NOTE: CHANGE THE FLASH SETTING FROM FAT32 INTO NTFS
FORMAT SETTING”
- ISO IMG.FILE OF “WINDOWS THAT NEEDED” OR WANT TO CREATE.
- RUFUS (APPS SOFTWARE)
 - STEP FOR RUFUS:
 - ✓ CLICK RUFUS
 - ✓ CLICK (SELECT) IMAGE
 - ✓ CLICK “START”
 - ✓ WAIT

STEPS ON BOOTABLE FLASH DRIVE DEVICE SELECTION

BOOT SEQUENCE

- FIRST CHOICE:
 - ENTER BIOS SYSTEM
 - PHEONIX – PRESS “F2”
 - AMI & AMERICAN TRENDS – PRESS “DEL OR DELETE”
 - GO TO “LOAD SETUP DEFAULT” THEN CLICK IT.
 - PRESS F10 TO SAVE & EXIT THEN RESTART
 - MAIN / BOOT SEQUENCE
 - UNDER HARD DISK DRIVE
 - ❖ SETUP INTO 1ST BOOT THE “USB DEVICE OR REMOVABLE DEVICE”
 - UNDER BOOT DEVICE PROIRITY
 - ❖ SETUP INTO 1ST BOOT THE “USB DEVICE OR REMOVABLE DEVICE” THEN DISABLE ALL OTHER DEVICE.
- SECOND CHOICE:
 - PRESS “F8” TO ENTER “BOOT DEVICE SELECTION”
 - BOOT DEVICE SELECTION
 - ❖ SETUP INTO 1ST BOOT THE “USB DEVICE OR REMOVABLE DEVICE”
 - UNDER BOOT DEVICE PROIRITY
 - ❖ SETUP INTO 1ST BOOT THE “USB DEVICE OR REMOVABLE DEVICE” THEN DISABLE ALL OTHER DEVICE.

SETUP WINDOW OS

- LOAD THE BOOTABLE FLASH DRIVE
 - IF YOU SEE THE “PRESS ANY KEY TO BOOT ON USB”
 - NOTE: YOU ONLY CLICK OR PRESS “ONCE” YOU SEEN THIS MESSAGE.
 - SET INTO “ENGLISH (REPUBLIC OF THE PHILIPPINES)”
 - CHECK THE BOX “I ACCEPT”
 - SELECT “CUSTOM VERSION”
 - NOTE: IF YOU DO NOT WANT DELETE THE FILES ON OTHER DRIVE “RENAME THE DRIVE INTO EASY TO REMEMBER.”
 - THE “SYSTEM RESERVED” WAS MADE FOR TEMPORARY FILES OF YOUR COMPUTER.
 - SELECT “DRIVE (ONE BY ONE)”
 - DELETE ALL “IF CLEAR ALL”
 - SELECT “DRIVE OPTION”
 - » SELECT FIRST THE DRIVE YOU WANT TO DELETE THEN SELECT OR PRESS DELETE OPTION.
 - CREATE DRIVE ACCORDING TO CAPACITY YOU WANT.
 - FINISH

CREATE A DRIVE AT DISK MANAGEMENT

- CREATE A UNALLOCATED PARTITION

- START MENU

- MY COMPUTER

- RIGHT CLICK

- MANAGE

- DISK MANAGEMENT

- ❖ SELECT AND RIGHT CLICK THE DRIVE “UNALLOCATED PARTITION”

- ❖ SELECT “NEW SIMPLE VOLUME”

- IF THE LETTER PATH NOT AVAILABLE

- CHANGE THE OPTICAL DRIVE INTO ANOTHER LETTER PATH THEN SELECT A LETTER PATH NEXT TO THE OTHER DRIVES.

TO MAKE OR CREATE AN ANOTHER PARTITION INTO DRIVE ALREADY EXISTED

- RIGHT CLICK “MY COMPUTER / COMPUTER”
 - MANAGE
 - DISK MANAGEMENT
 - SELECT THE DRIVE YOU WANT TO DIVIDE
 - CLICK THE DRIVE
 - RIGHT CLICK THE SELECT THE “SHRINK VOLUME”
 - WAIT FOR THE “AMOUNT OF SPACE” AVAILABLE
 - THEN ENTER THE AMOUNT OF SPACE TO SHRINK IN “**MB** (Megabyte)”
 - THEN CLICK TO SHRINK
 - THEN CLICK THE UNALLOCATED DRIVE OR NEW DRIVE WAS CREATED
 - PRESS RIGHT CLICK THEN SELECT “NEW SIMPLE VOLUME”
 - PRESS NEXT
 - THEN NEXT AGAIN
 - ASSIGN LETTER PATH
 - NOTE: DO NOT SHRINK A VOLUME IN BETWEEN OF TWO DRIVE
 - LASTLY DON’T FORGET TO MAKE IT A “NTFS TYPE OF FILE SYSTEM”
 - FINISH

WINDOWS SETUP

FOR INSTALLATION OF SOFTWARE

- WINRAR
- **POWER ISO**
 - TO CREATE AN ISO IMAGE ON ICON BESIDE THE TIME OF YOUR COMPUTER (RIGHT BELOW PART)
 - RIGHT CLICK THE ICON OF POWER ISO
 - SELECT “DRIVE MOUNT”
 - ✓ MOUNT IMAGE (ON THE FILES)
 - ❖ SELECT A NUMBER OF DRIVES (TO MAKE TIME CONSUMPTION SHORT)
 - GO TO COMPUTER
 - ✓ DOUBLE CLICK THE DRIVE WANT TO INSTALL
- NOTE: IT’S OK TO DO A SIMUTANEOUSLY INSTALLATION
- **DRIVERS**
 - DRIVER PACK
 - SELECT ONLY THE DRIVER/S MISSING
- **MICROSOFT OFFICE**

NOTE: SELECT CUSTOMIZE THEN SELECT THE FOLLOWING (THE OTHERS SELECT “NOT AVAILABLE”)

 - MSWORD
 - MSEXCEL
 - MSPOWERPOINT
- **ANTI-VIRUS**
 - COSTUMIZE
 - THE N LOOK FOR THE “SAFEZONE” THEN UNCHECK IT.

NOTE:

- WINRAR
- POWER ISO
- DRIVER PACK
 - INSTALL ALL OR DRIVERS ONLY TO SAVE TIME