

# Материнская плата

Лекцию подготовил  
преподаватель  
Тукубаев А.С.

Конспект лекции <http://fro.kz/vtsh/>

# GIGABYTE™



Insist on **Ultra Durable**

Designed for Overclocking  
AMD A-Series APUs and for use  
in Water Cooled Systems



Industry Leading 60A Rated Power Stage with  
Lower Losses, Higher Efficiency and Excellent  
Thermal Management



Ultra Durable™ Motherboard (Socket FM2)

# F2A85X-UP4

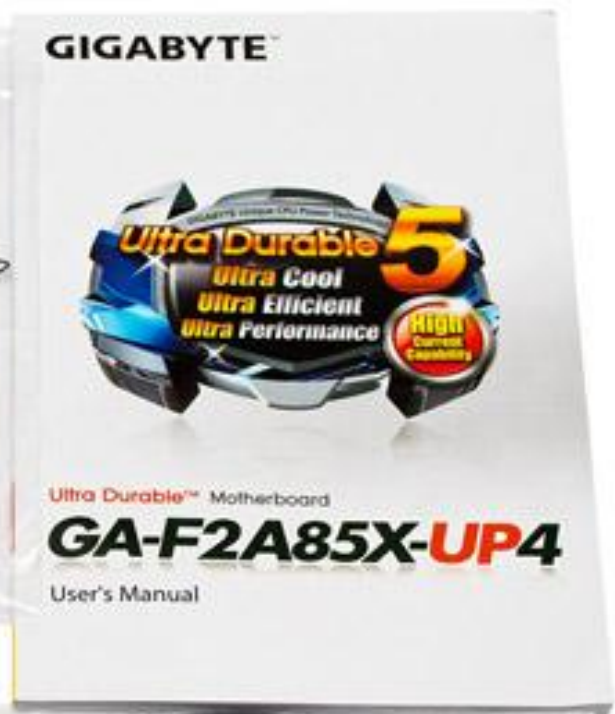


Humidity Protection

OVERCLOCKERS.UA

UNLOCKED PERFORMANCE

001



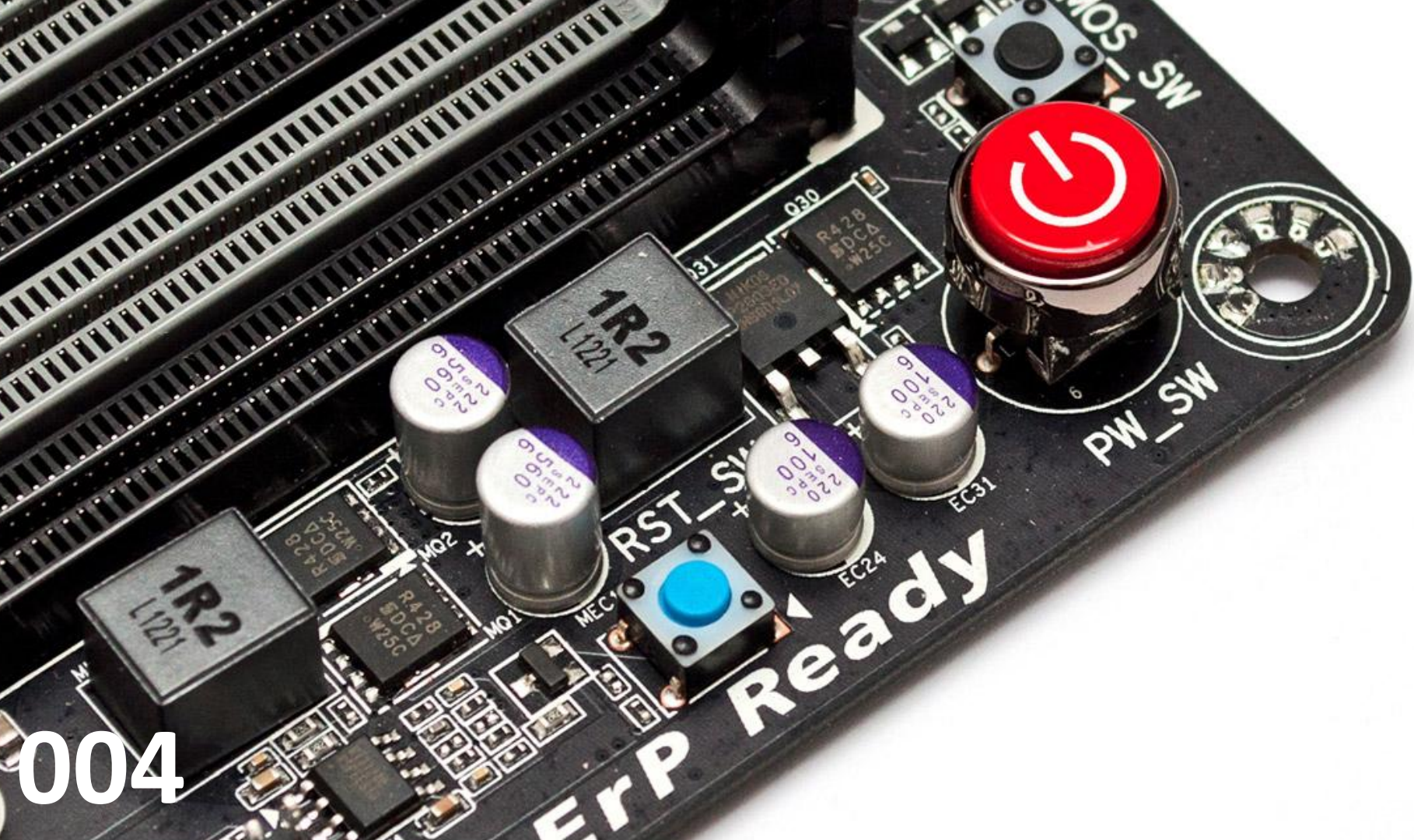
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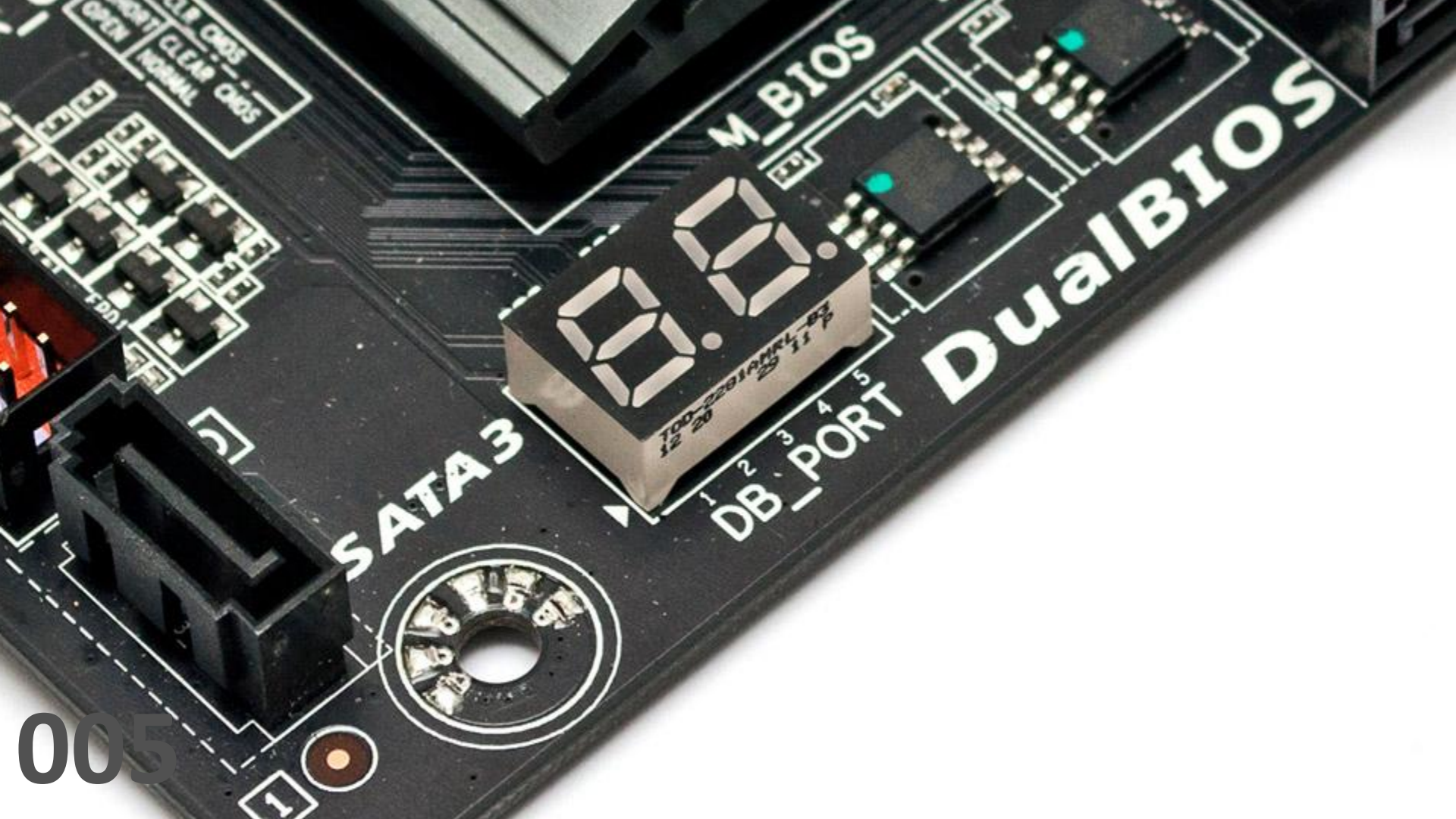
003



004







M\_BIOS

DualBIOS

SATA3

DB\_PORT

100-2291AHL-82  
12 20 25 11 P

005



GIGABYTE

CLR\_CMOS

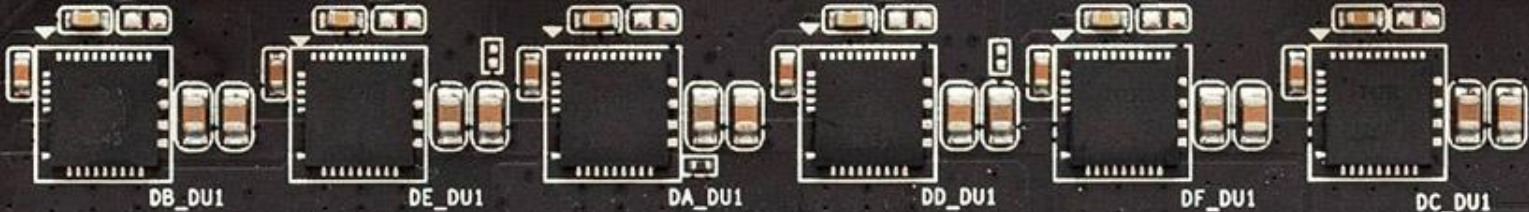
SHORT	CLR_CMOS
OPEN	CLEAR_CMOS
	NORMAL

M\_BIOS B\_BIOS SATA

006



FAN



DB\_DU1

DE\_DU1

DA\_DU1

DD\_DU1

DF\_DU1

DC\_DU1



EC16



DB\_DL1



DEC5



DE\_DL1



DEC11



DA\_DL1



DEC10



DD\_DL1



DEC12



DF\_DL1



DG\_DL1



DEC6



NBEC1



DH\_DL1

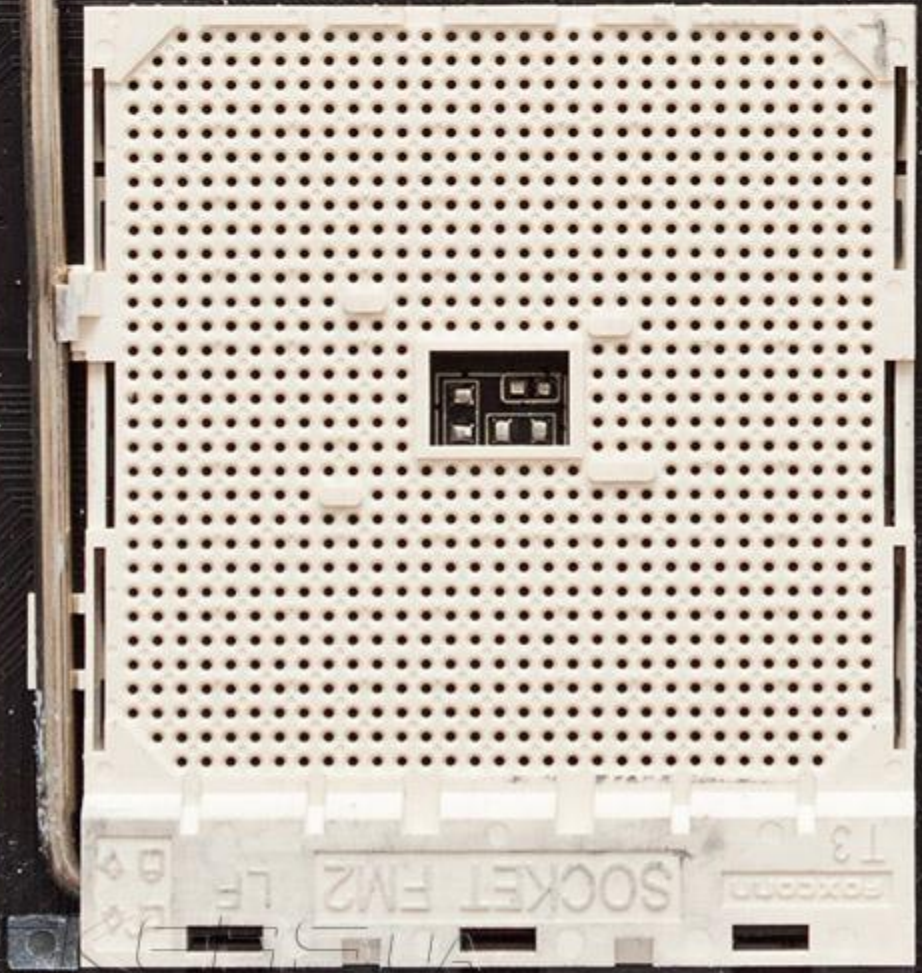


007



800

AMCO



SOCKET FM2

T3

AMCO

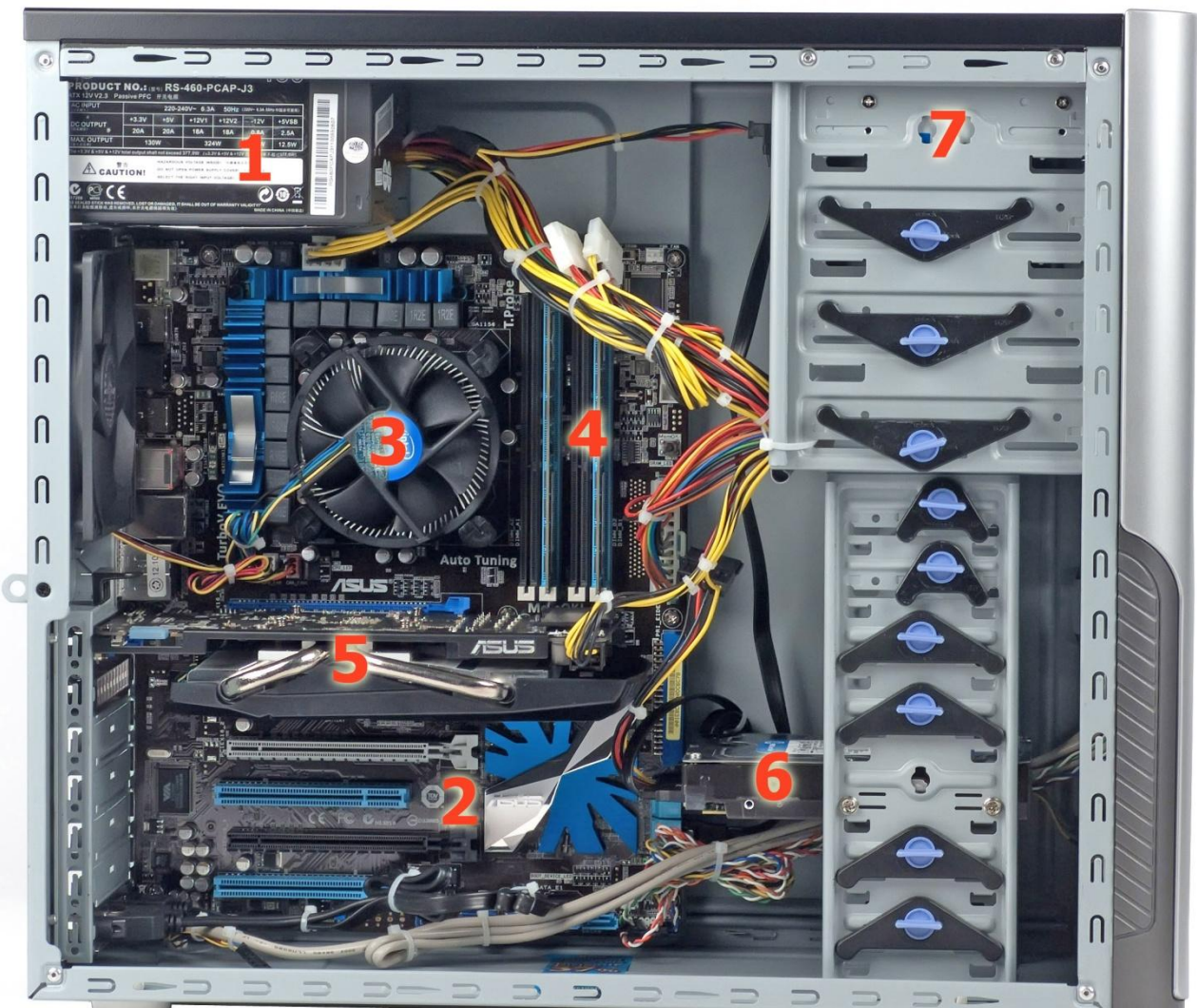




009



010





PRODUCT NO.: (型号) RS-460-PCAP-J3

ATX 12V V2.3 Passive PFC 开关电源

DC OUTPUT (DC输出)	+3.3V	+5V	+12V1	+12V2	-12V	+5VSB
	20A	20A	18A	18A	0.8A	2.5A
MAX. OUTPUT (最大输出)	130W	324W				12.5W

The +3.3V & +5V & +12V total output shall not exceed 377.0W. (+3.3V & +5V & +12V)

**CAUTION!** 警告! HAZARDOUS VOLTAGE. (警告: 有电危险) DO NOT OPEN POWER SUPPLY COVER. (请勿打开电源供应器盖) SELECT THE RIGHT INPUT VOLTAGE. (请选择正确的输入电压)

CE 17260 MADE IN CHINA (中国制造)

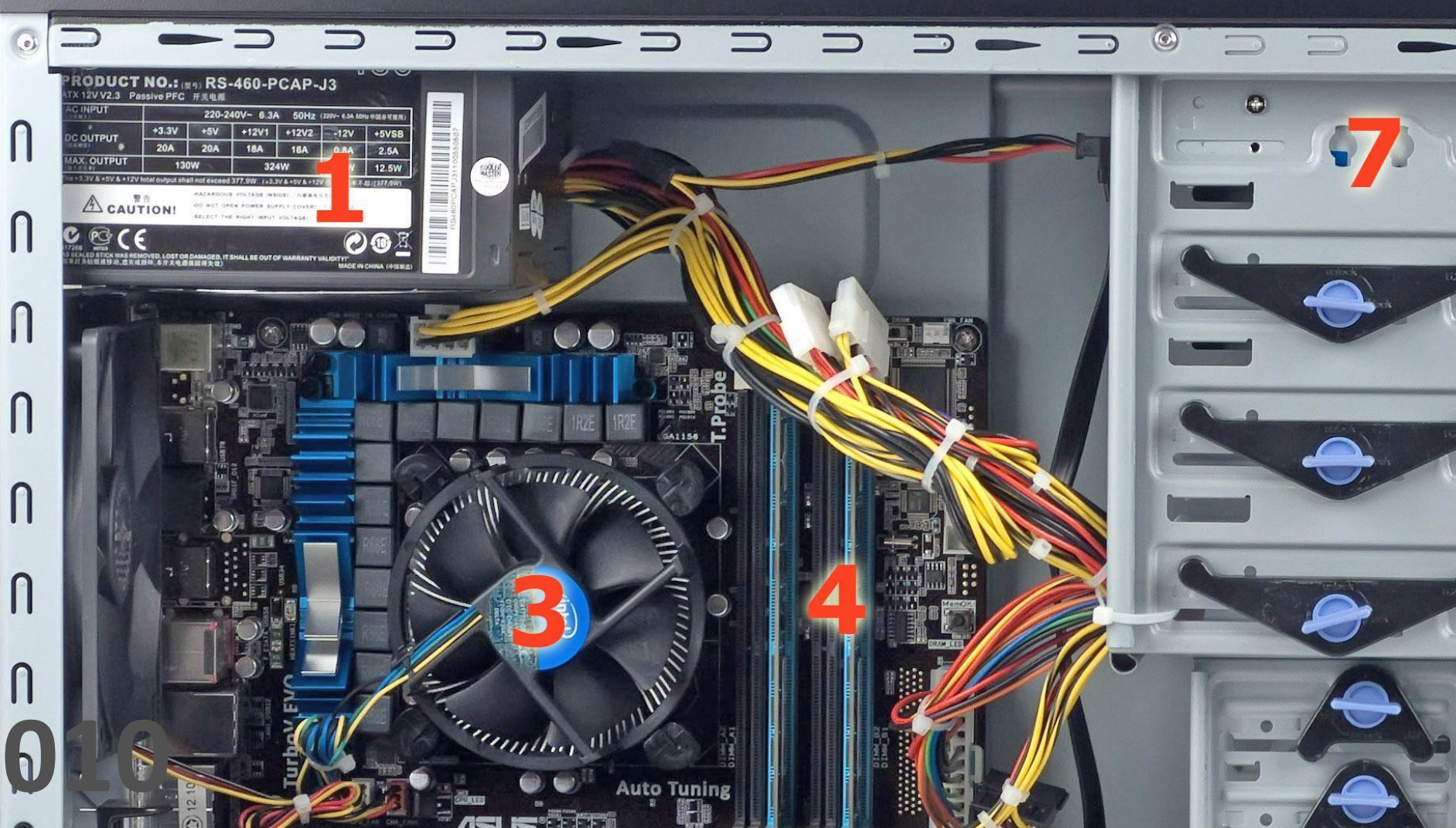
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3

10





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CE, RoHS, and other regulatory marks.

1

7

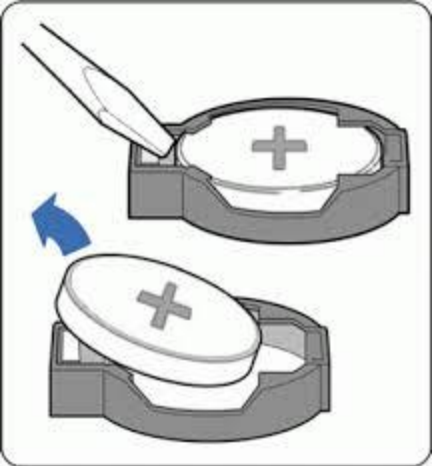
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011

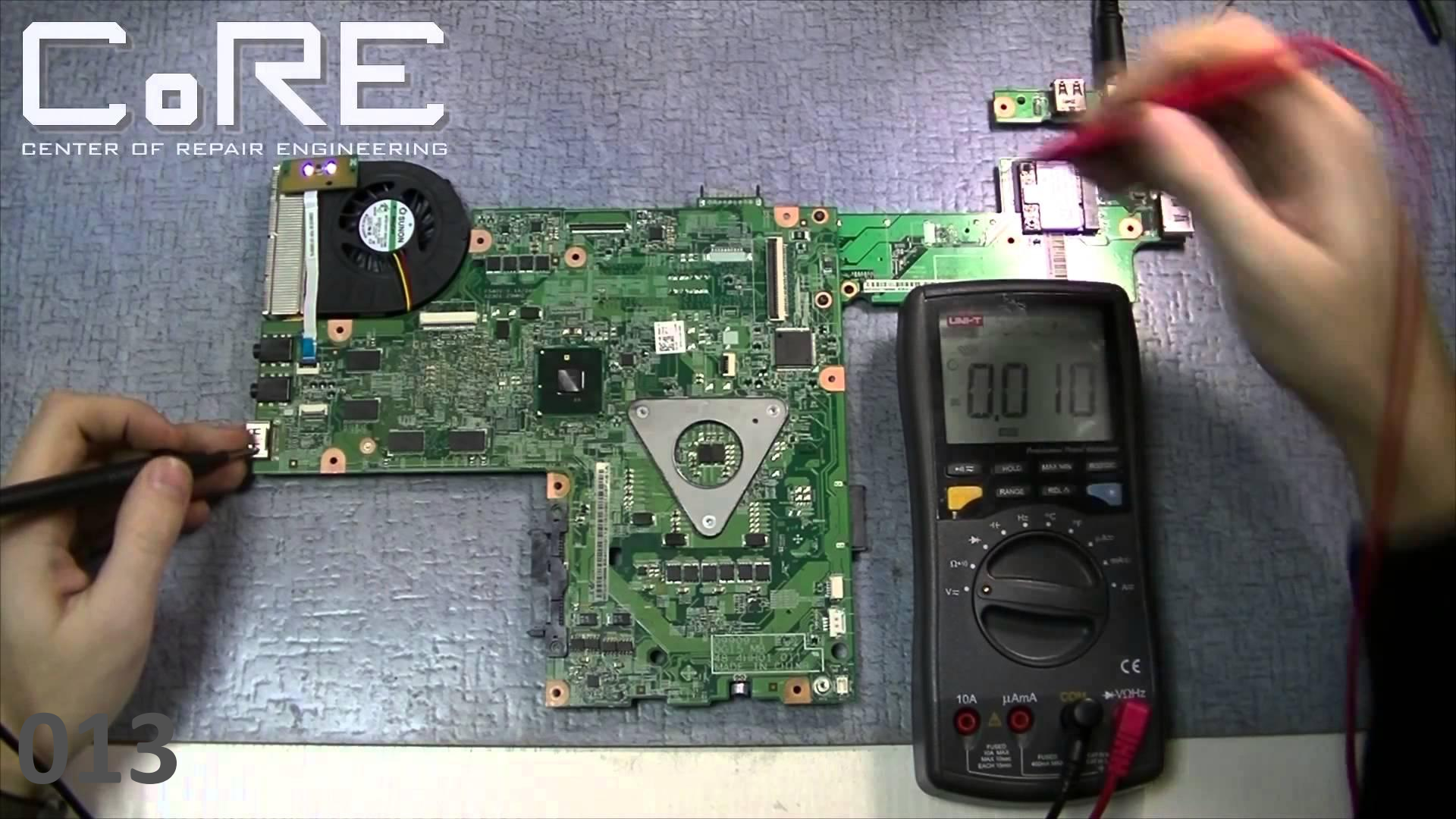




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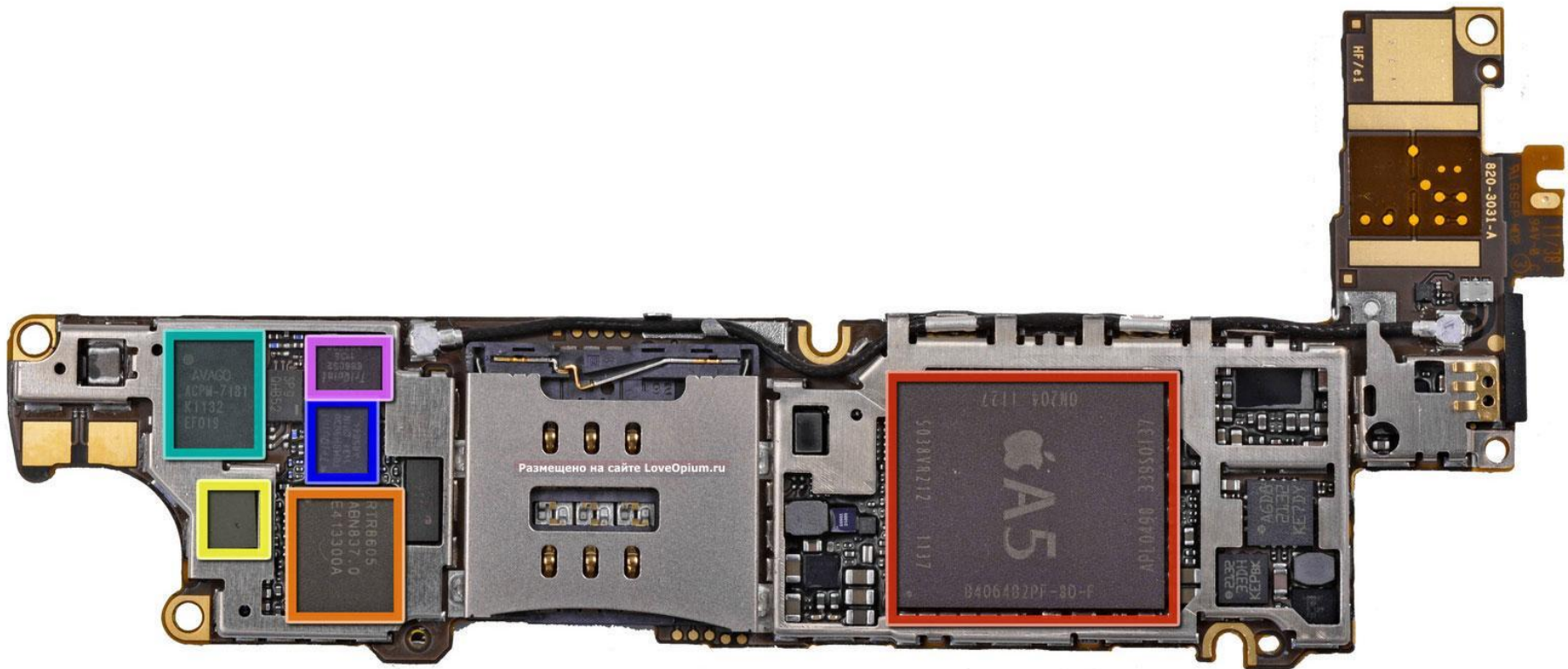
# CORE

CENTER OF REPAIR ENGINEERING



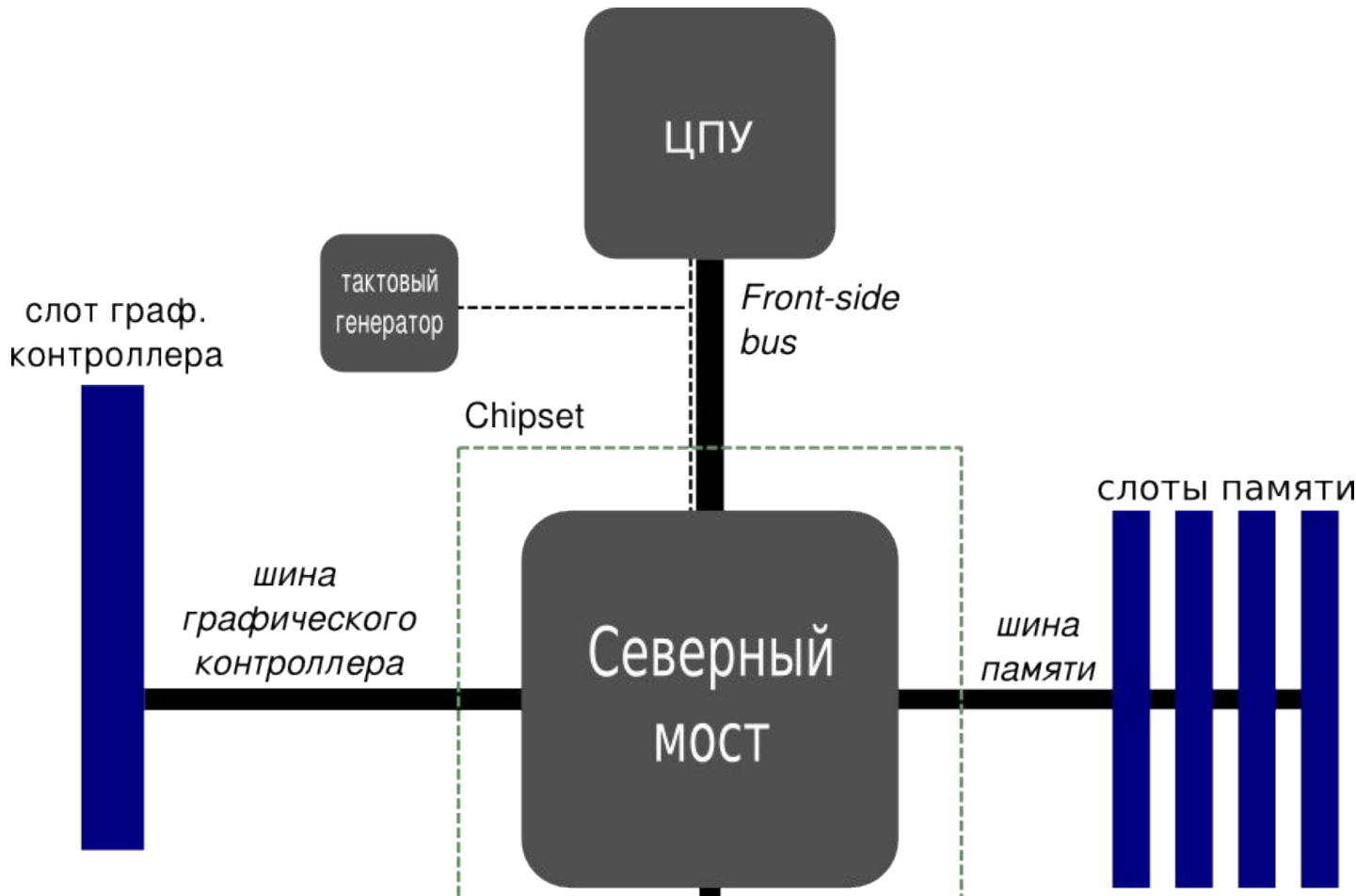
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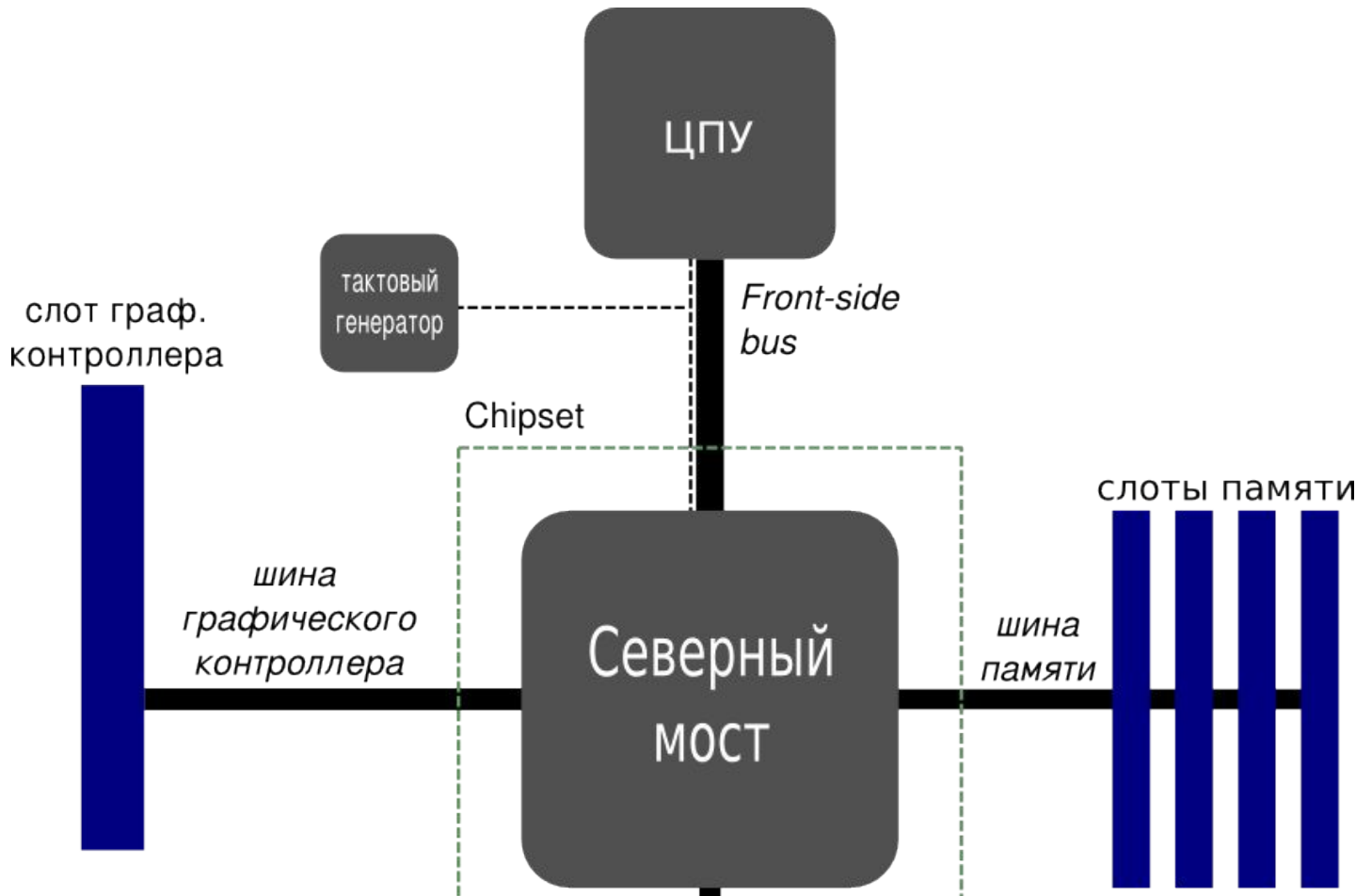
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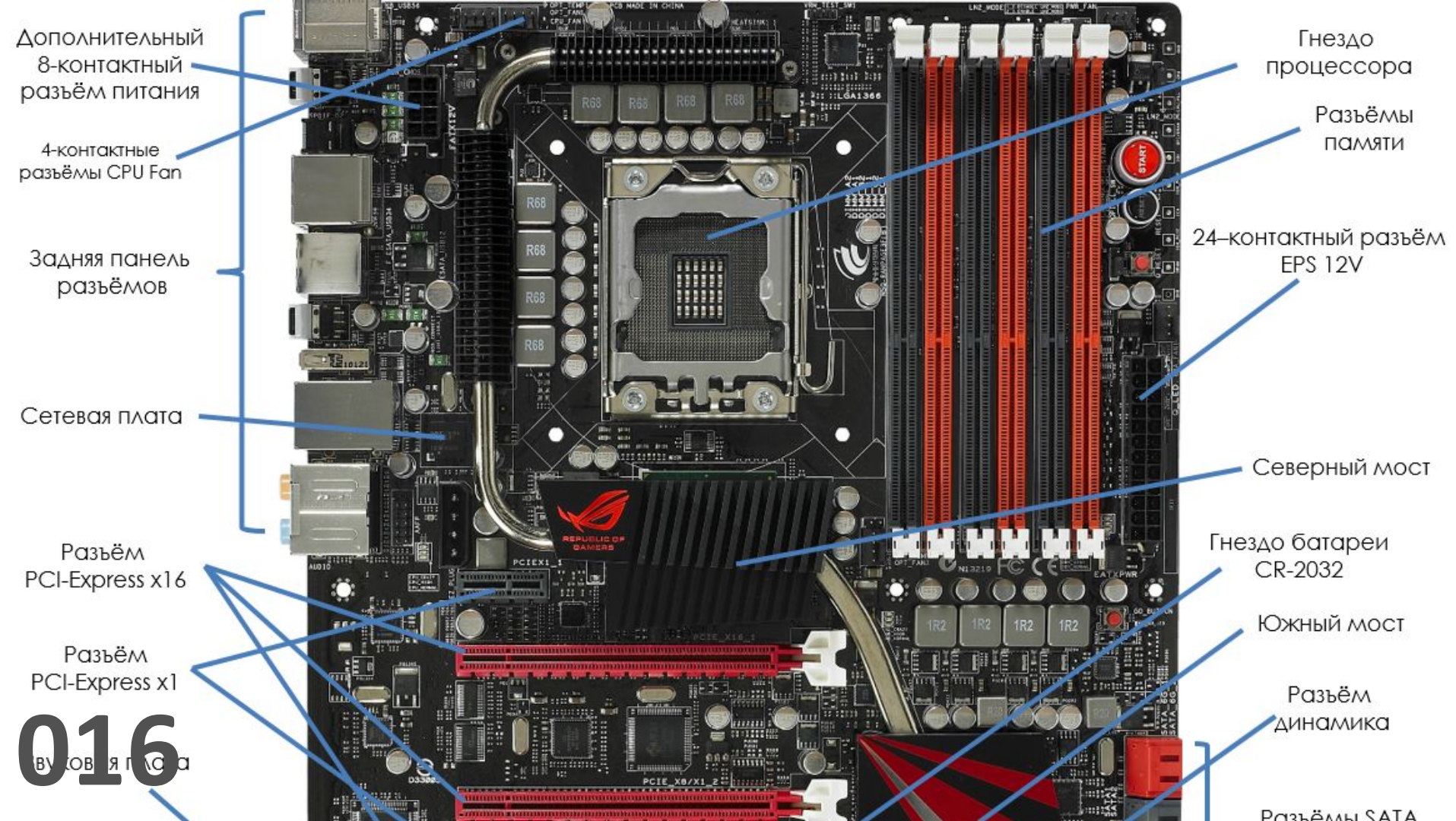
015





015





Дополнительный  
8-контактный  
разъем питания

4-контактные  
разъемы CPU Fan

Задняя панель  
разъемов

Сетевая плата

Разъем  
PCI-Express x16

Разъем  
PCI-Express x1

**016**  
ВУЛОВ Я ПУС

Гнездо  
процессора

Разъемы  
памяти

24-контактный разъем  
EPS 12V

Северный мост

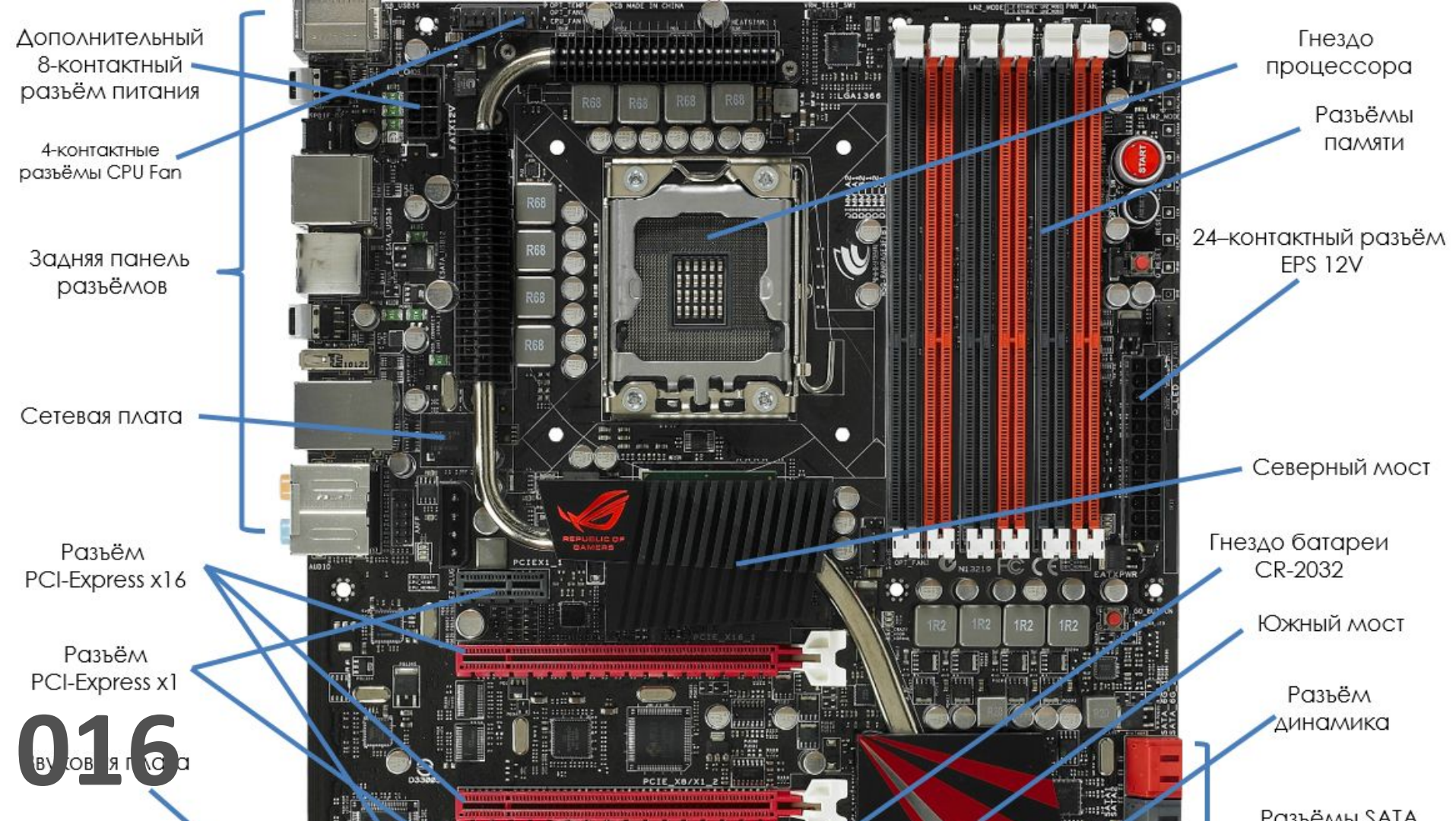
Гнездо батареи  
CR-2032

Южный мост

Разъем  
динамика

Разъемы SATA





Дополнительный  
8-контактный  
разъём питания

4-контактные  
разъёмы CPU Fan

Задняя панель  
разъёмов

Сетевая плата

Разъём  
PCI-Express x16

Разъём  
PCI-Express x1

**016**  
ВУЛОВ Я ПУСКО

Гнездо  
процессора

Разъёмы  
памяти

24-контактный разъём  
EPS 12V

Северный мост

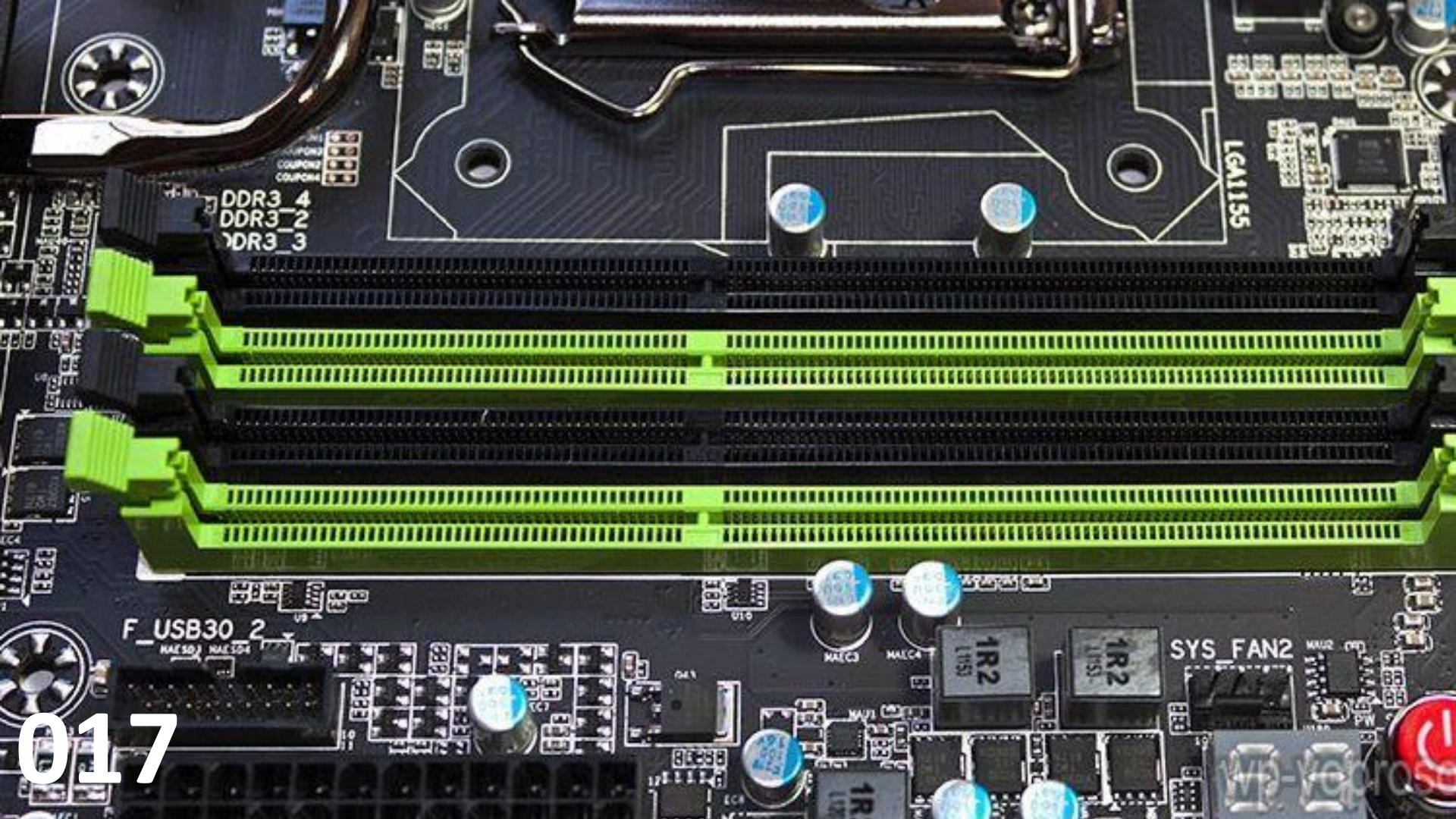
Гнездо батареи  
CR-2032

Южный мост

Разъём  
динамика

Разъёмы SATA





DDR3\_4  
DDR3\_2  
DDR3\_3

LGA1155

F\_USB30\_2

SYS\_FAN2

1R2

1R2

MAEC3

MAEC4

1R

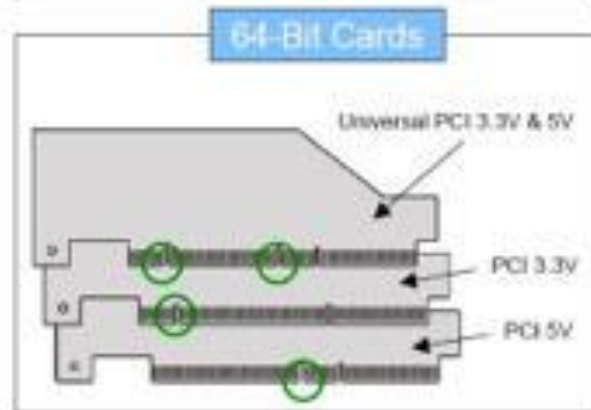
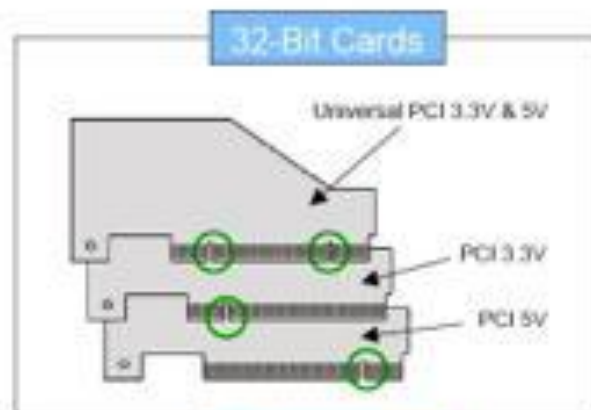
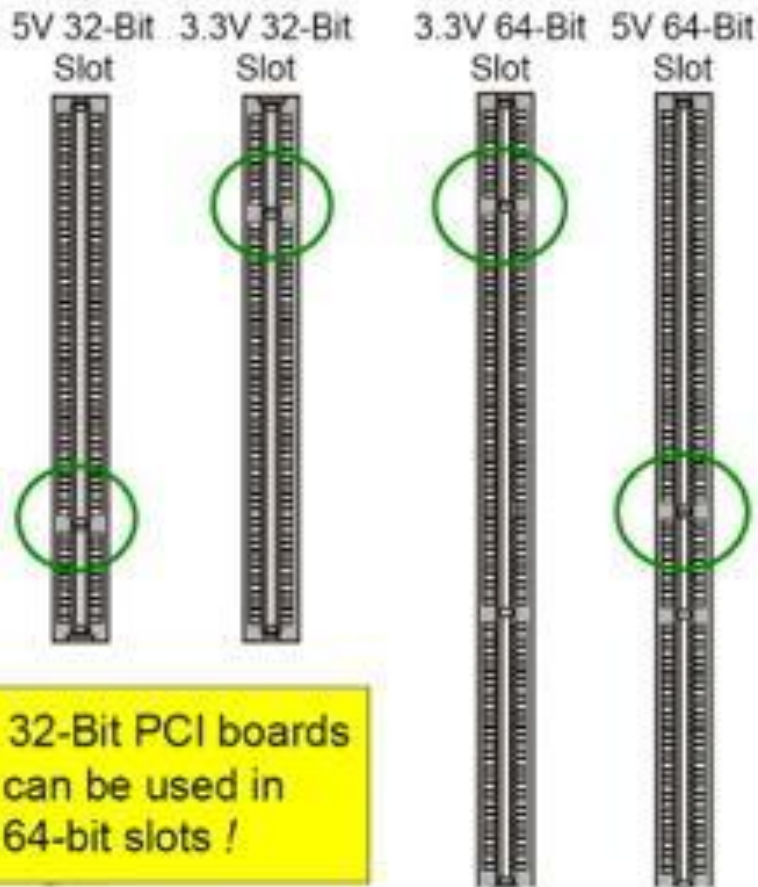
1R

1R

017



# 32-Bit vs 64-Bit Slots/Boards



PCIe x 1



PCIe x 16



PCI



PCI



019





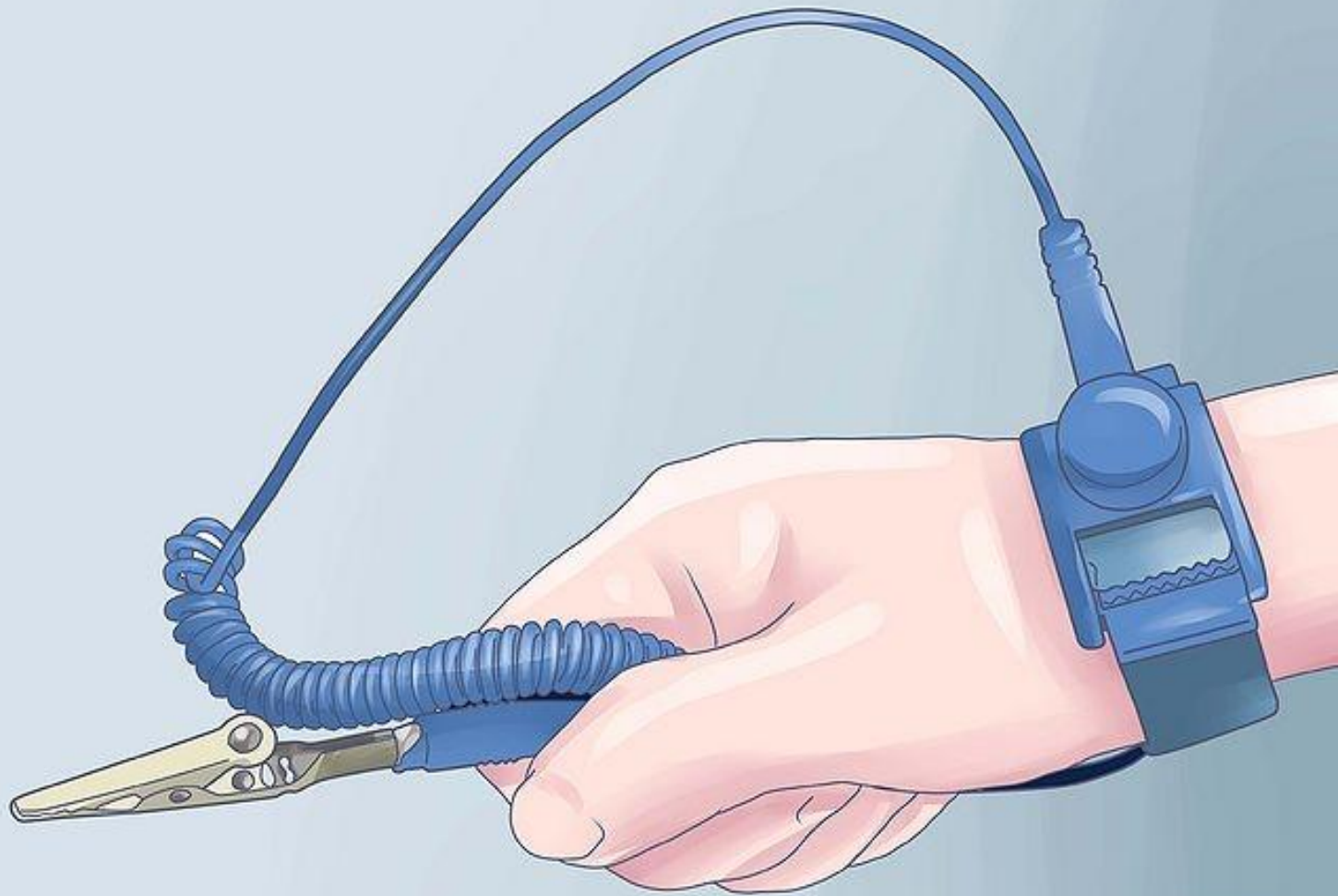
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021

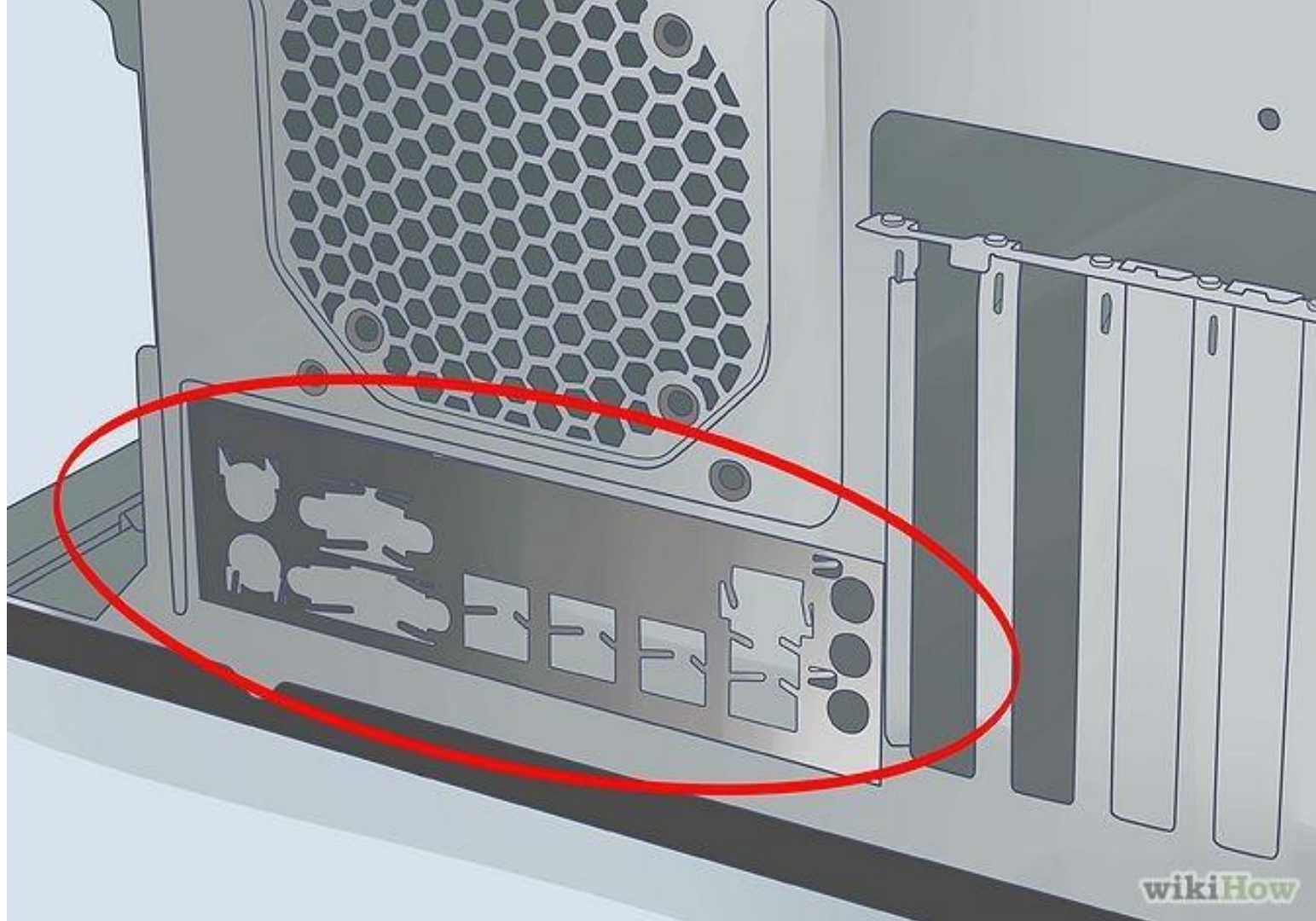




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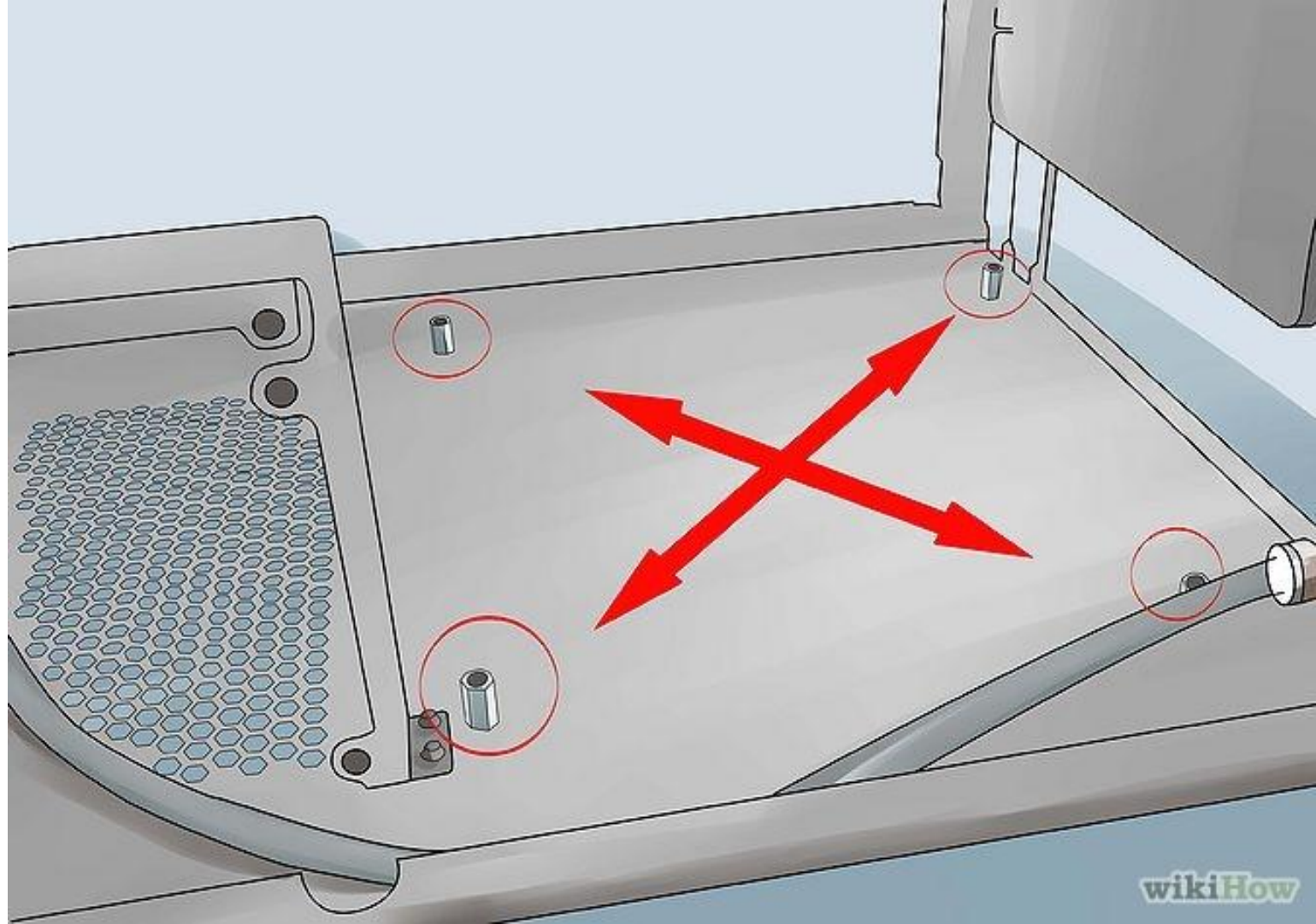


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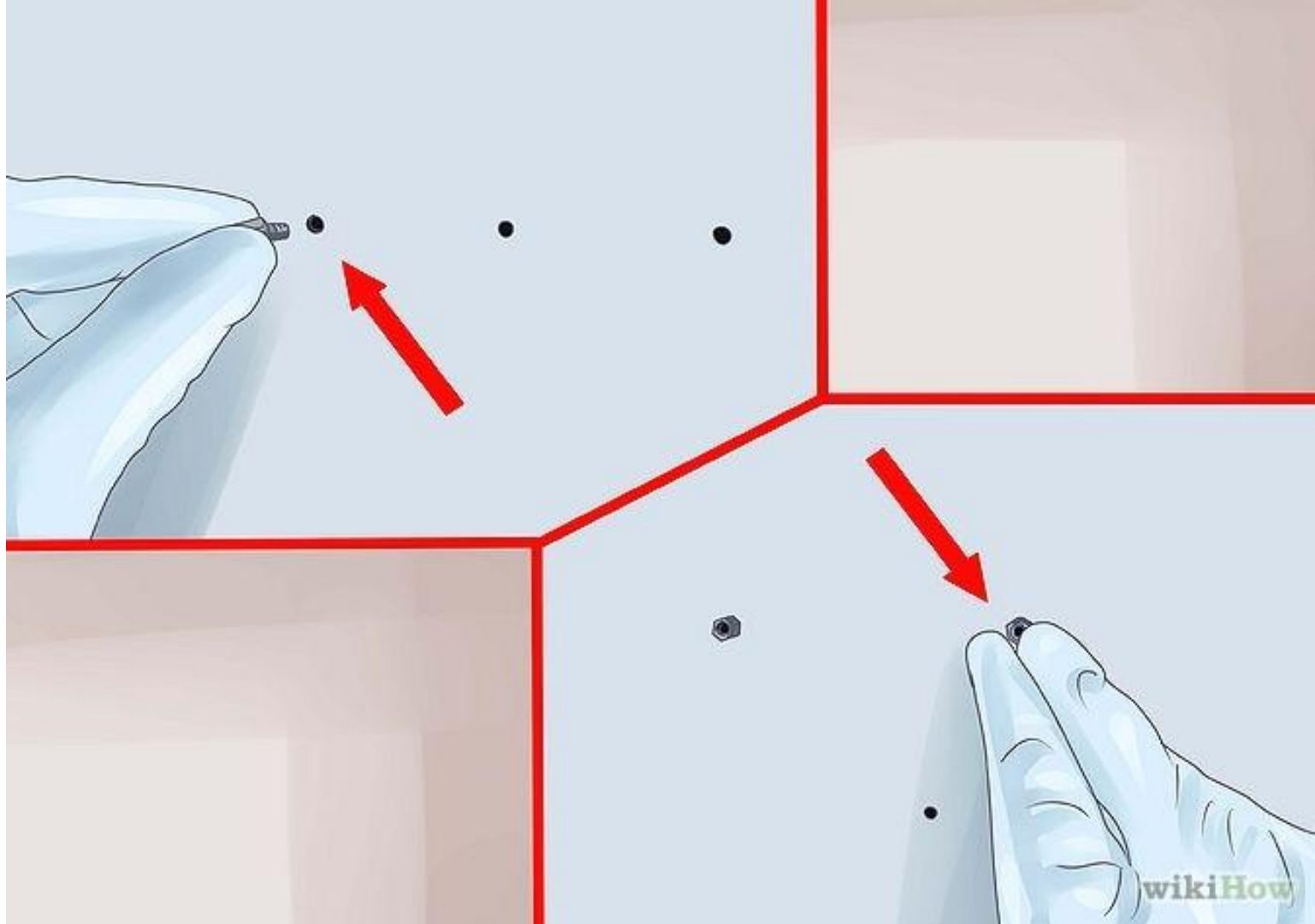




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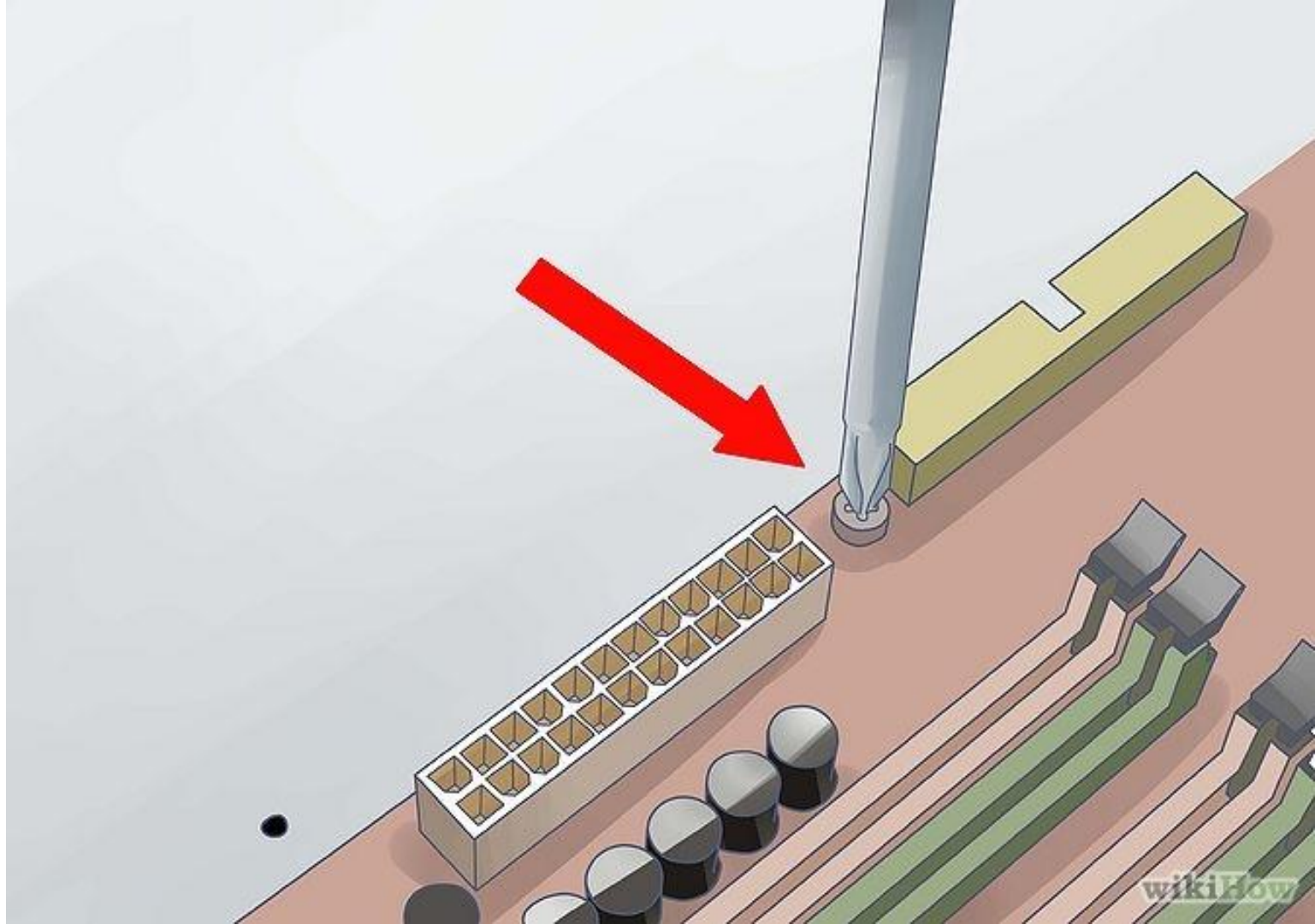


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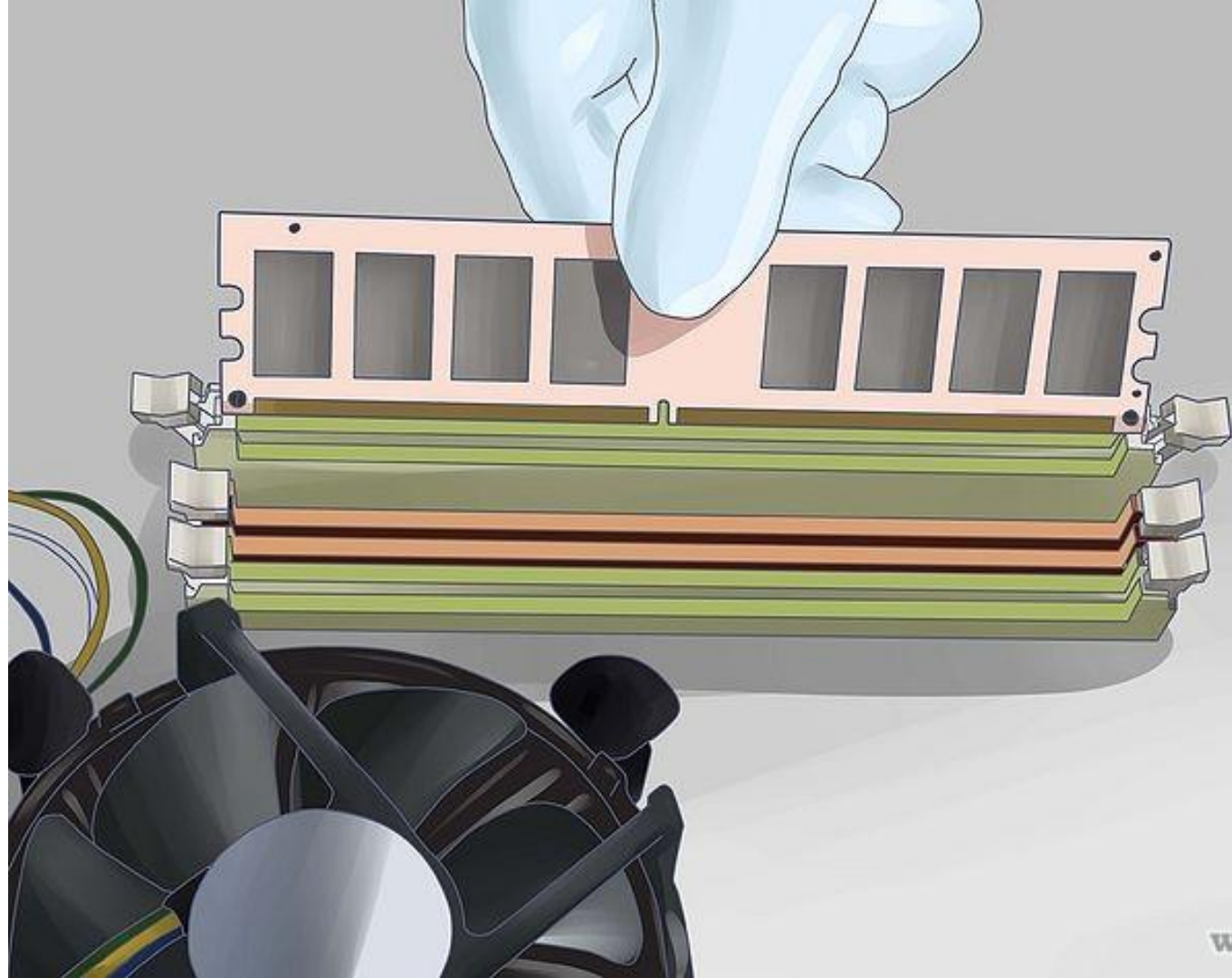




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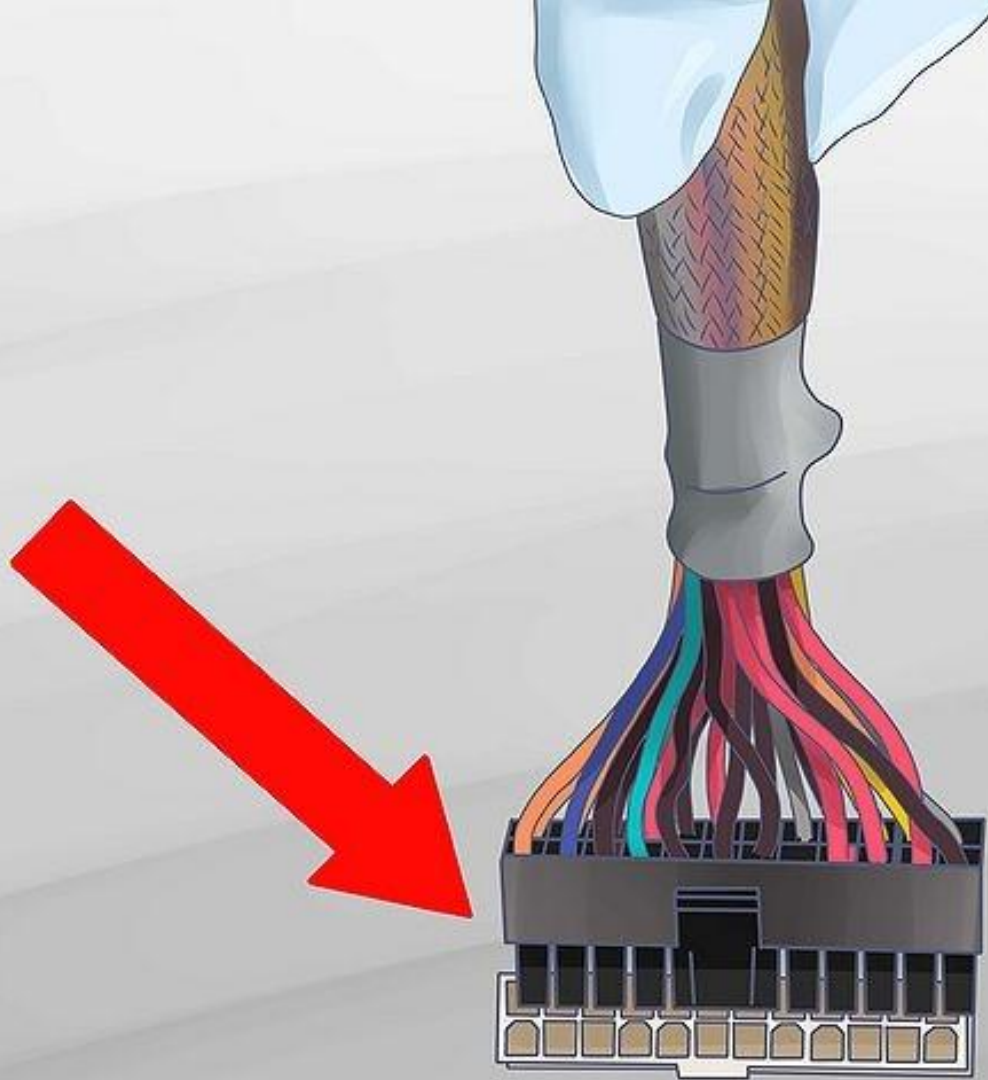


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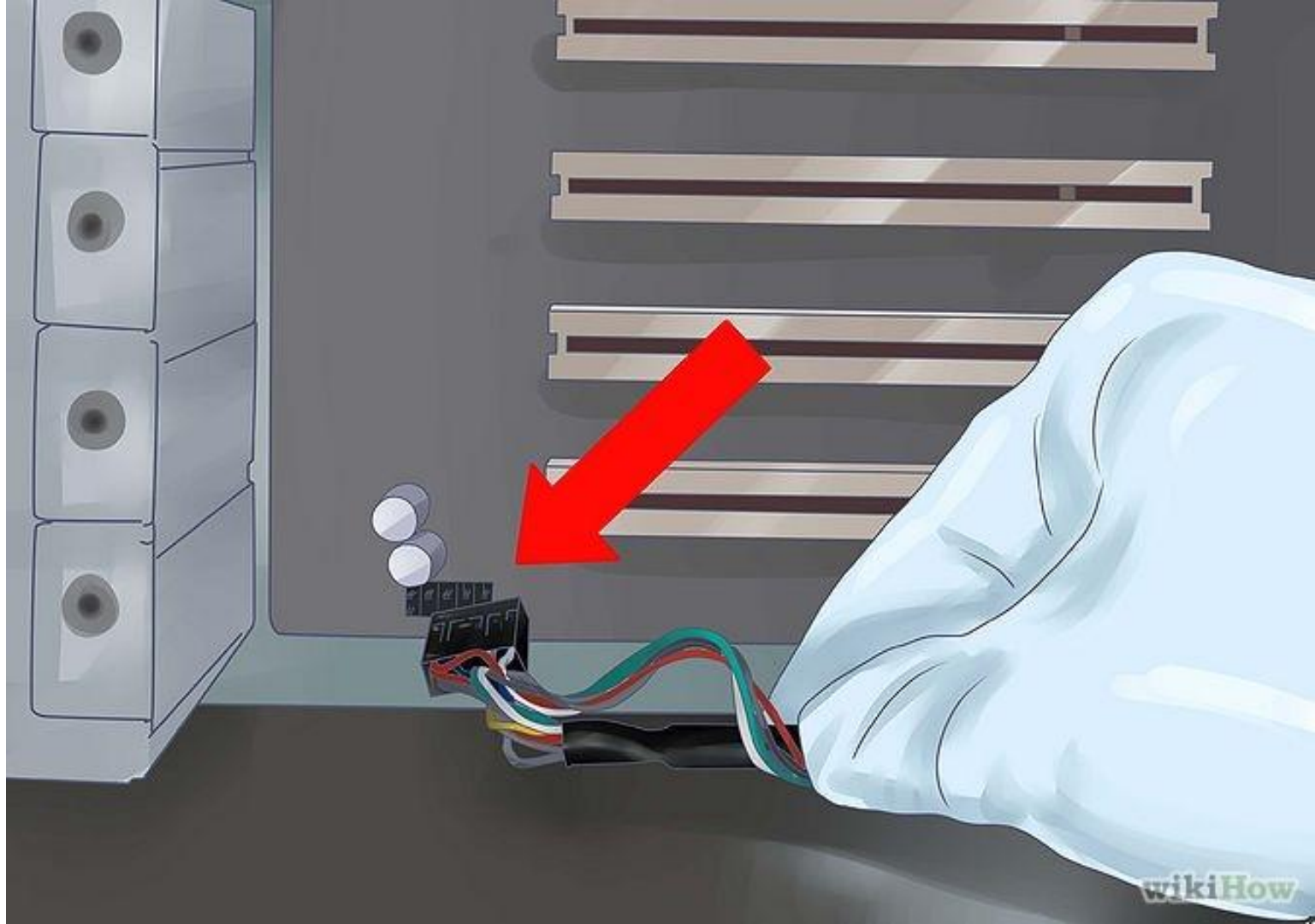




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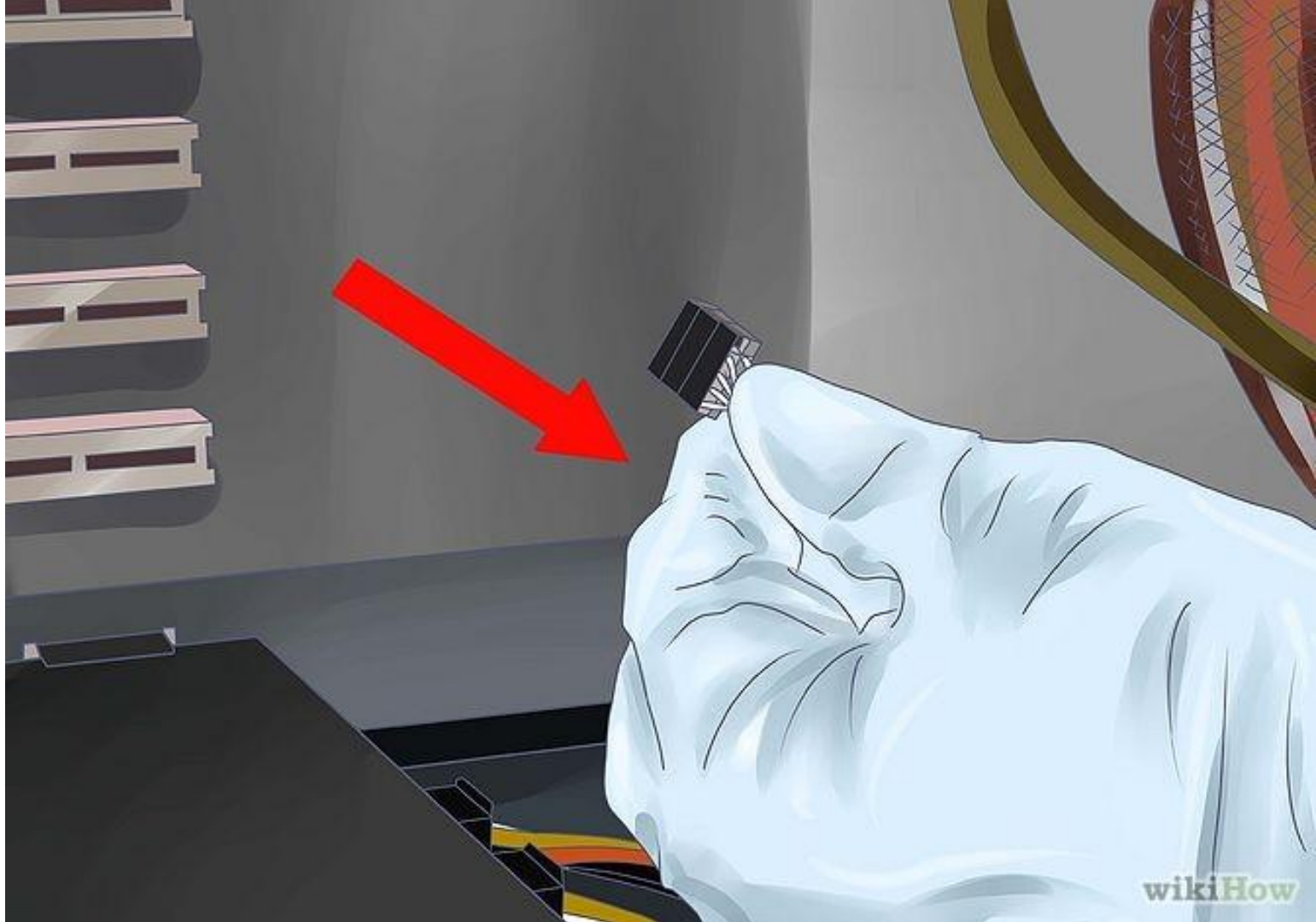


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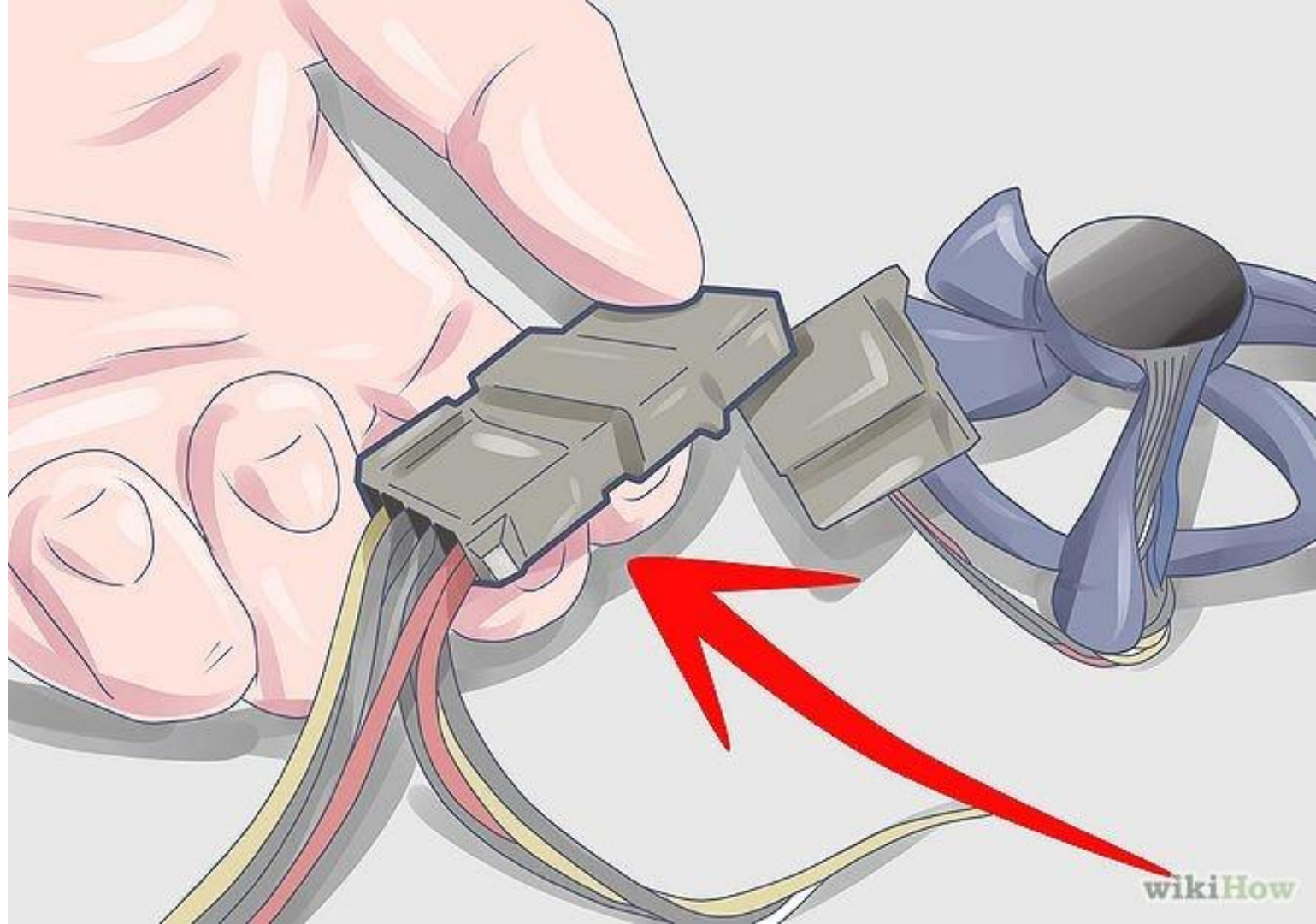




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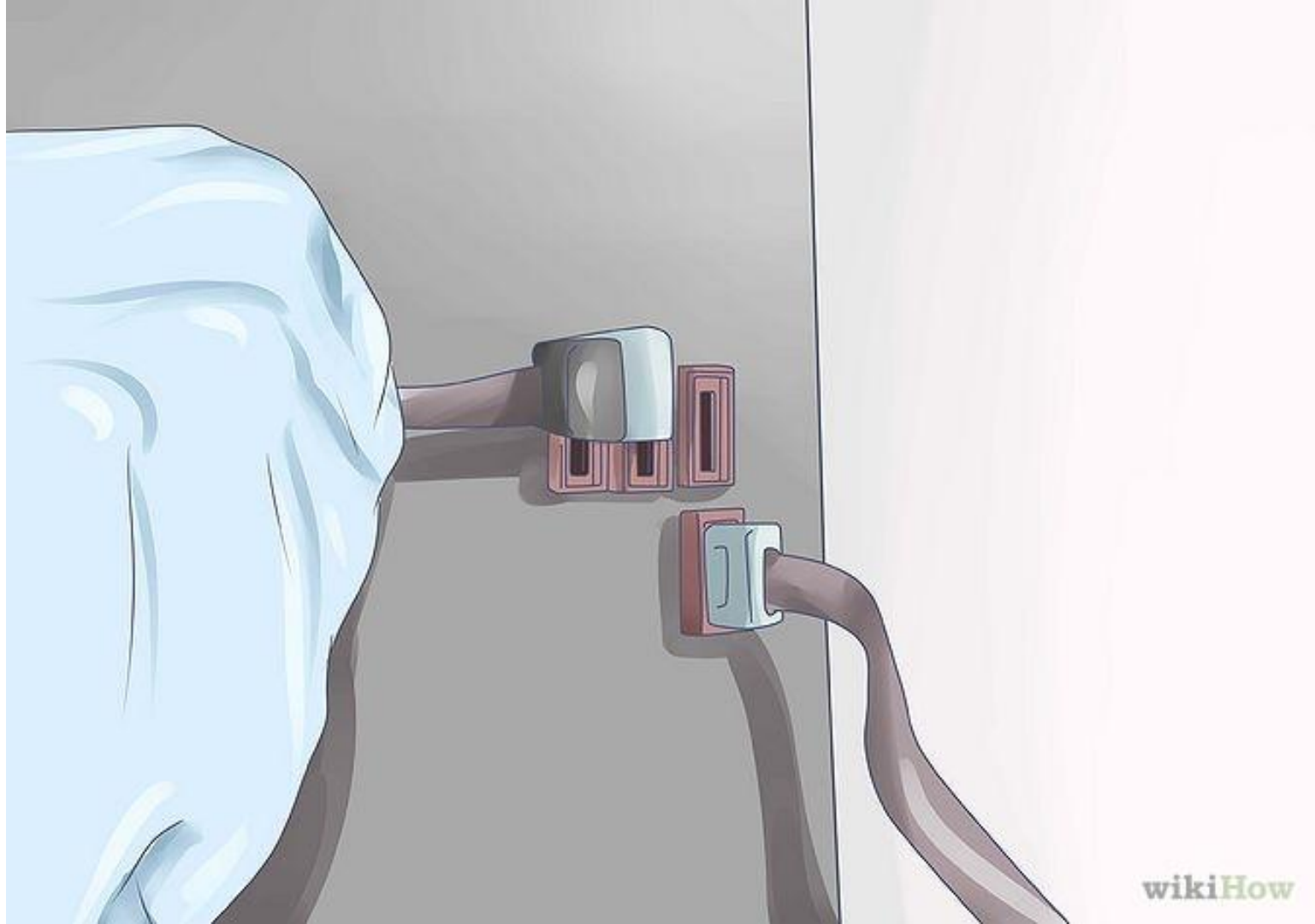


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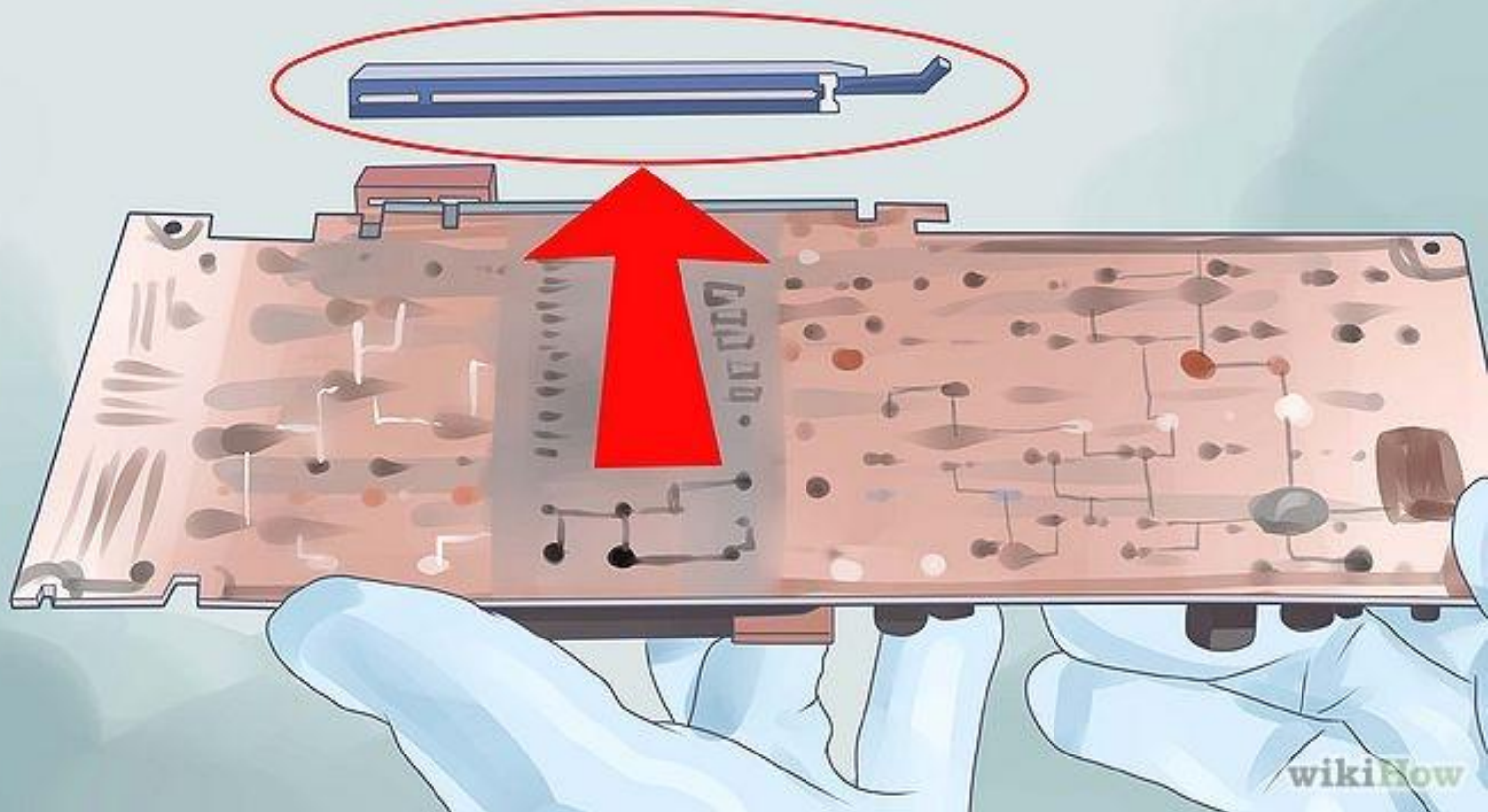




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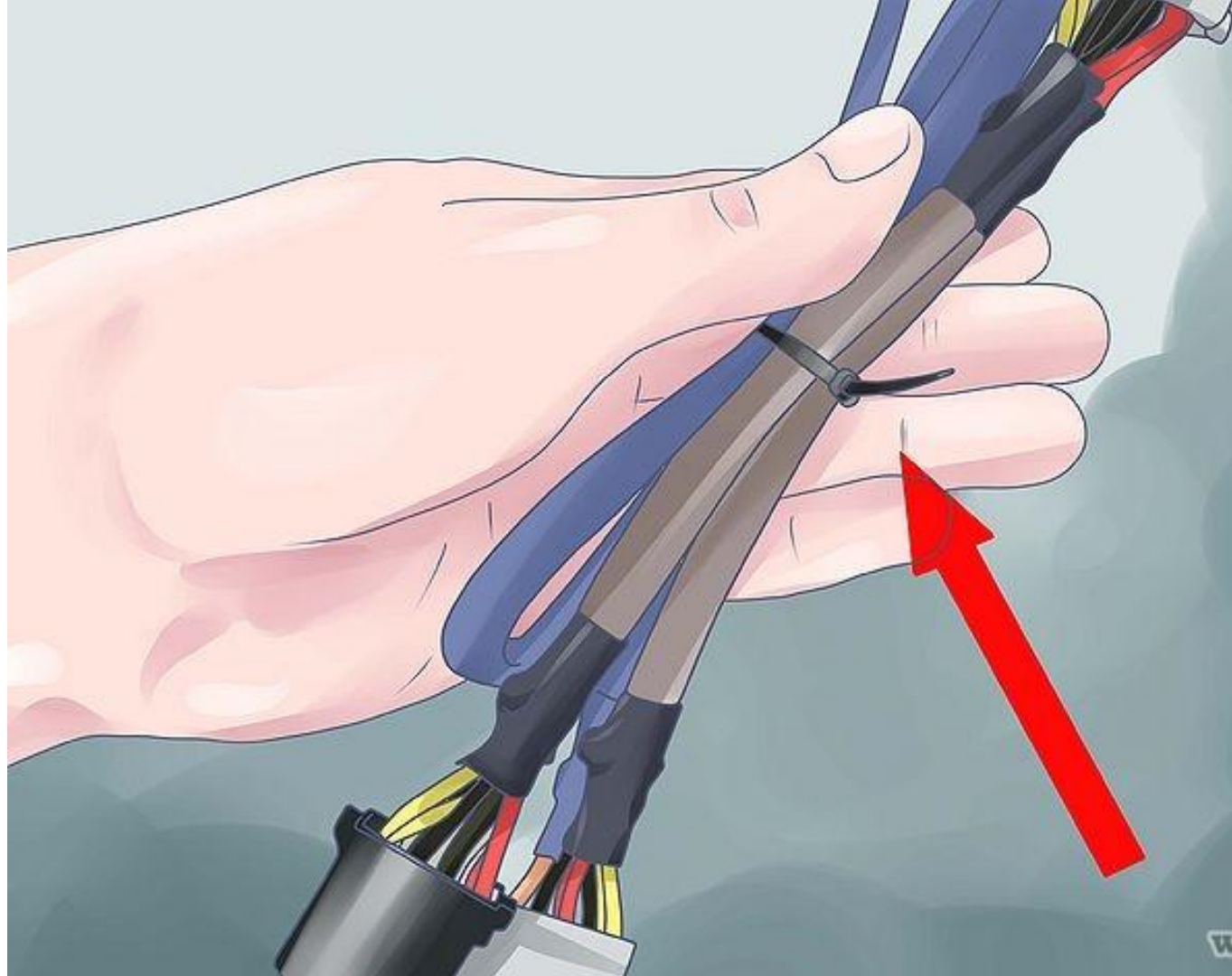


033





034





035