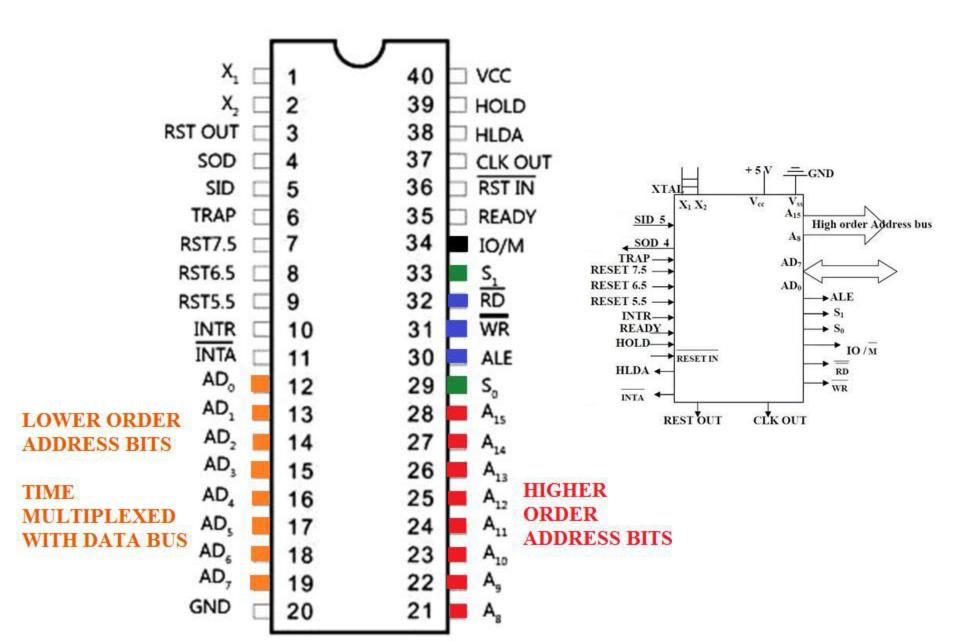
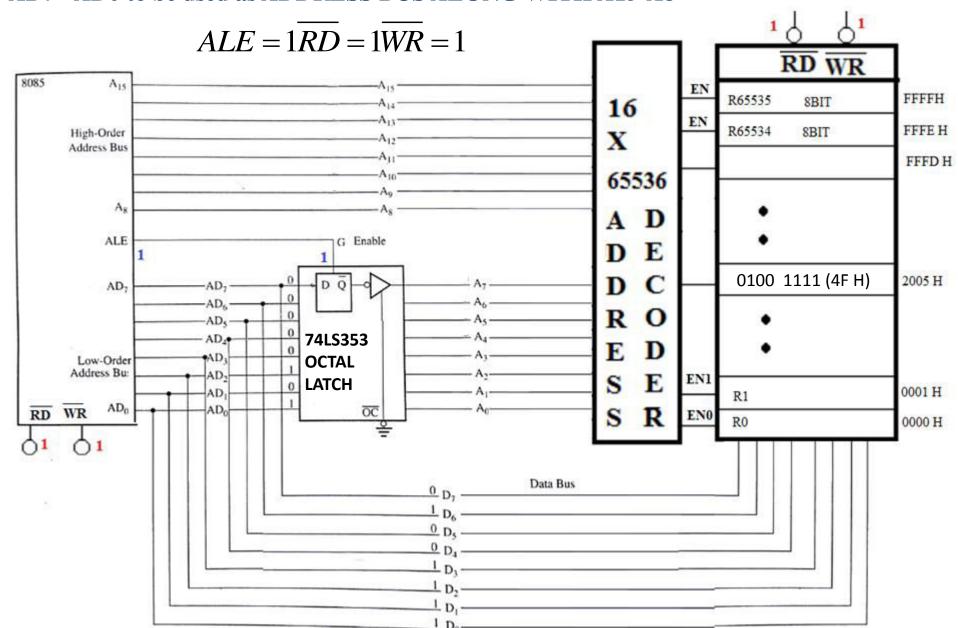
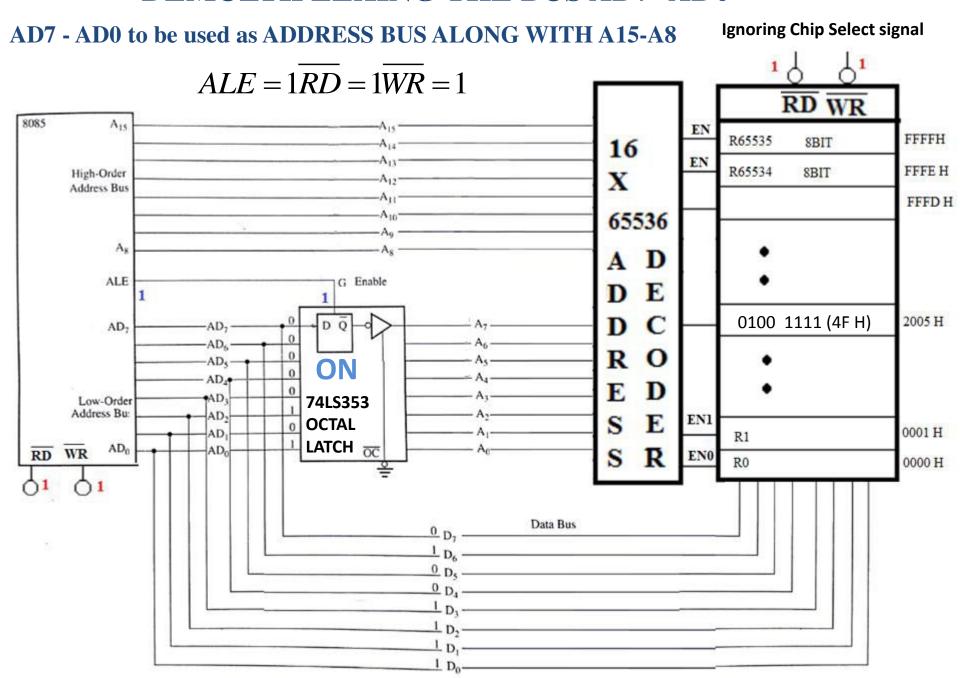
80856 PIN DIAGRAM

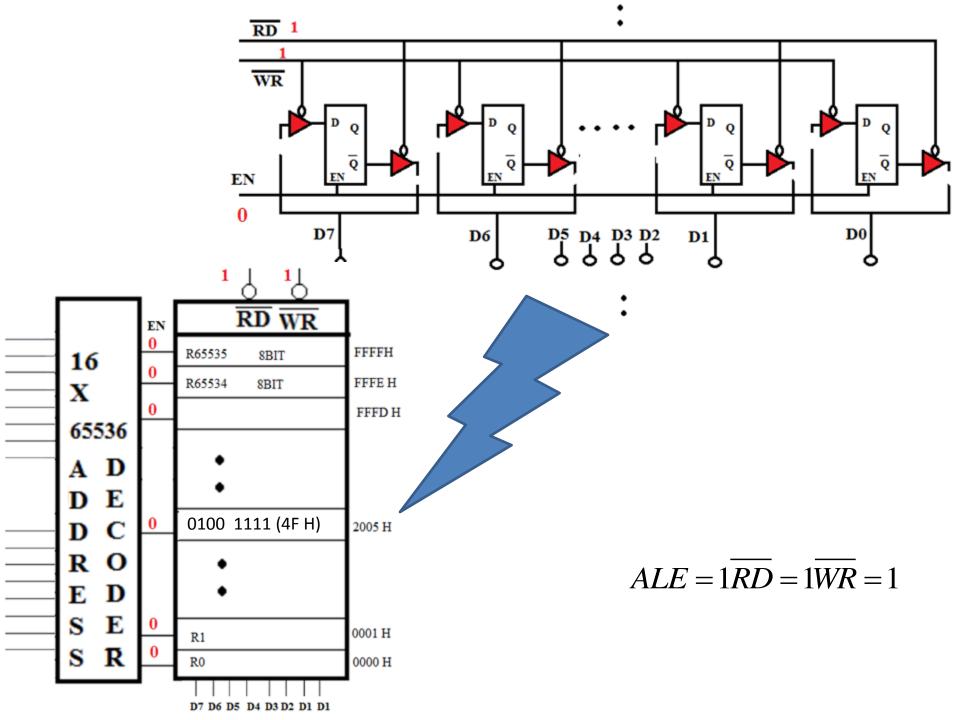


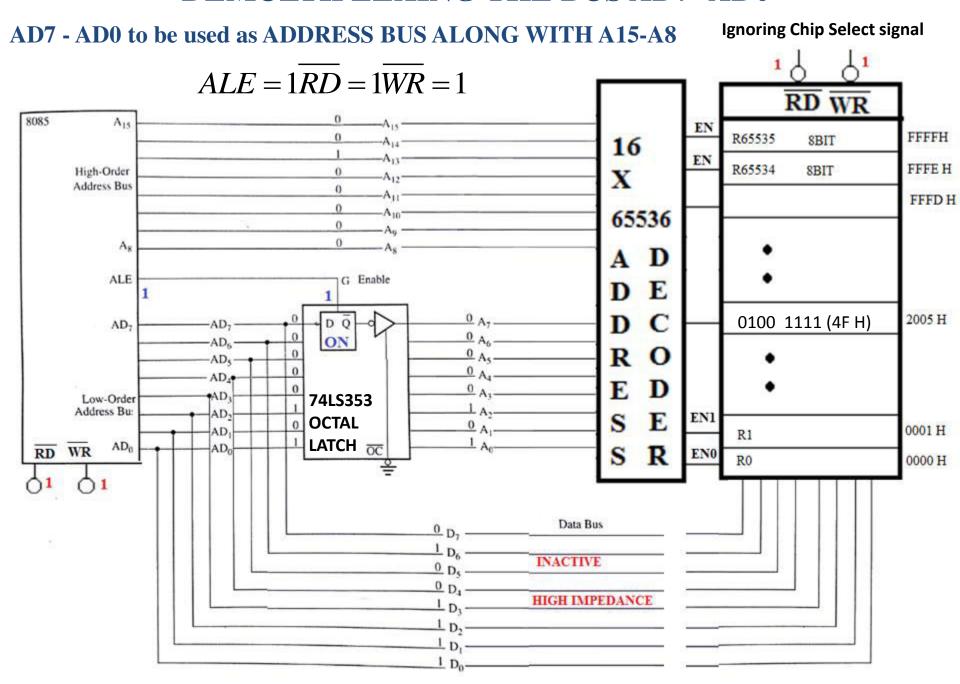
Ignoring Chip Select signal

AD7 - AD0 to be used as ADDRESS BUS ALONG WITH A15-A8



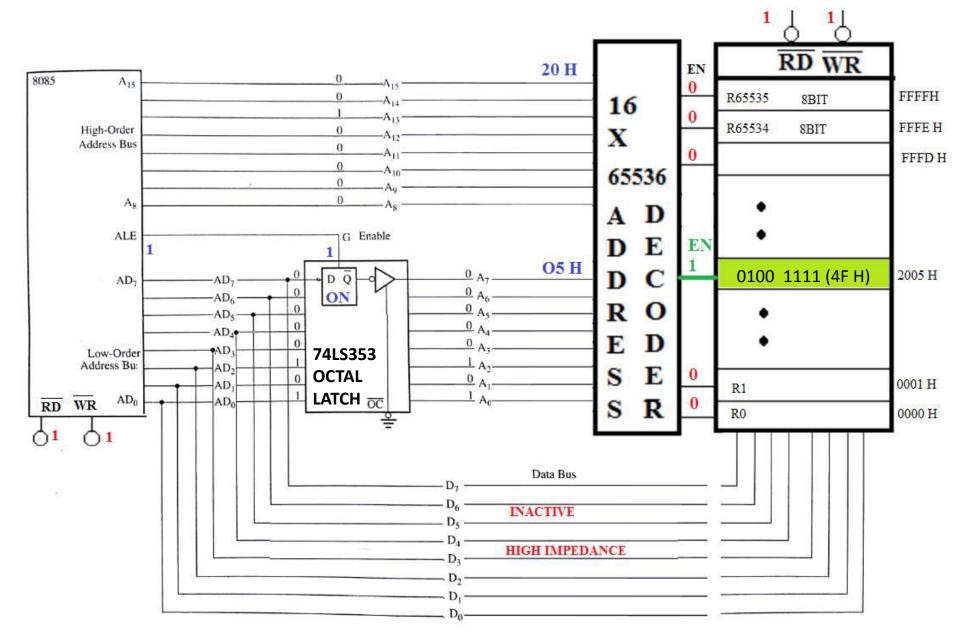






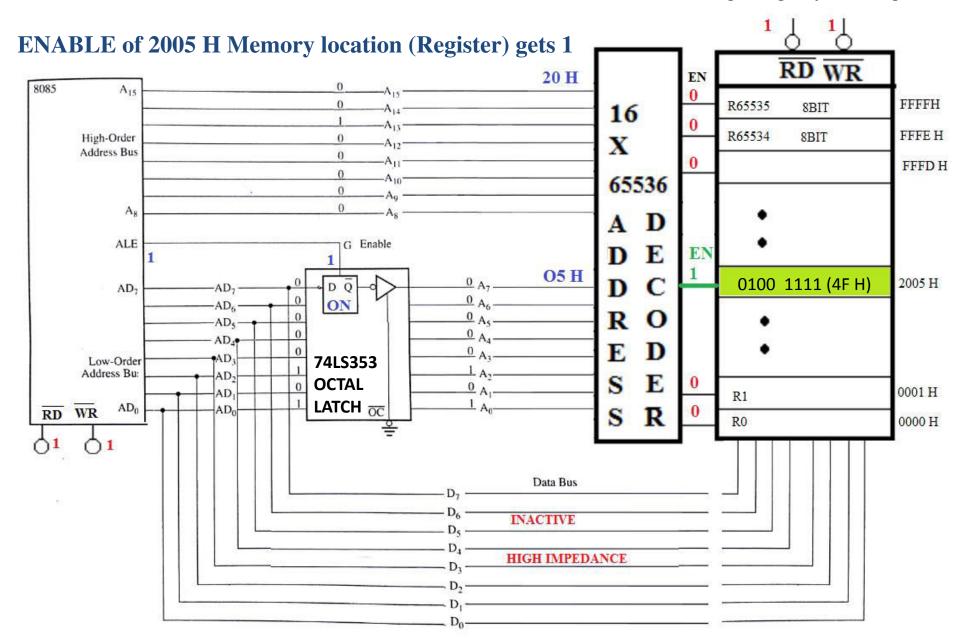
μP Puts 2005 H address on Address BUS (A15-A0)

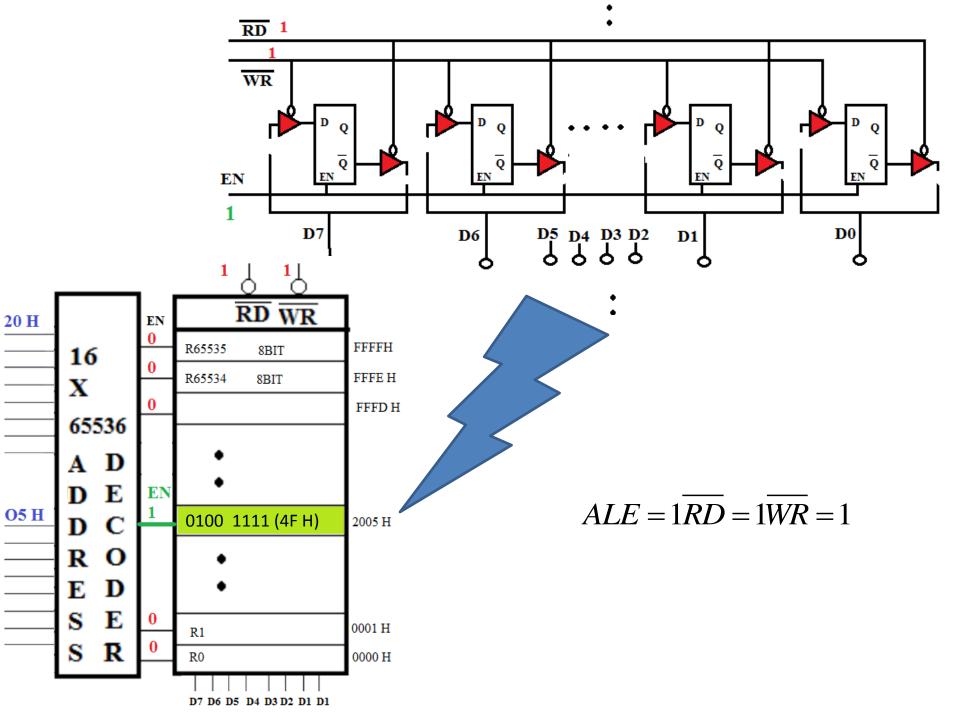
Ignoring Chip Select signal

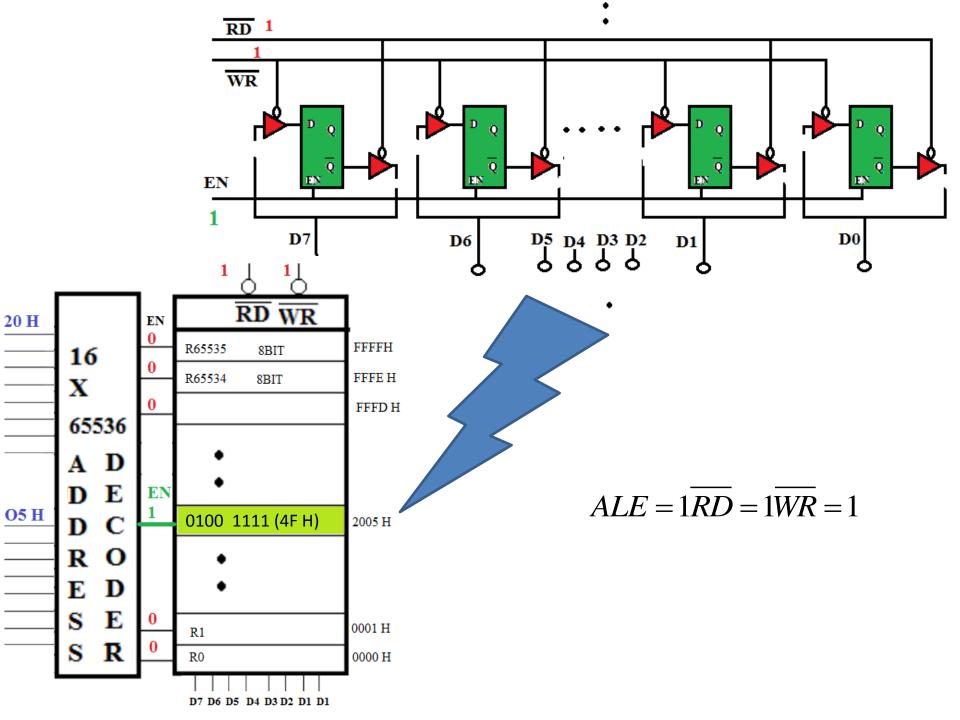


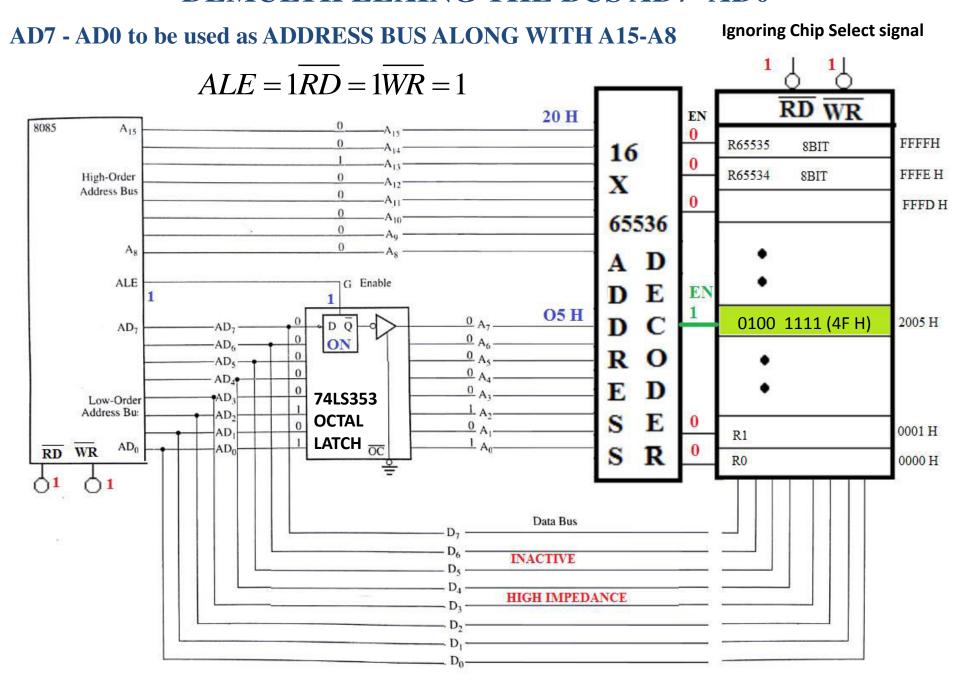
μP Puts 2005 H address on Address BUS (A15-A0)

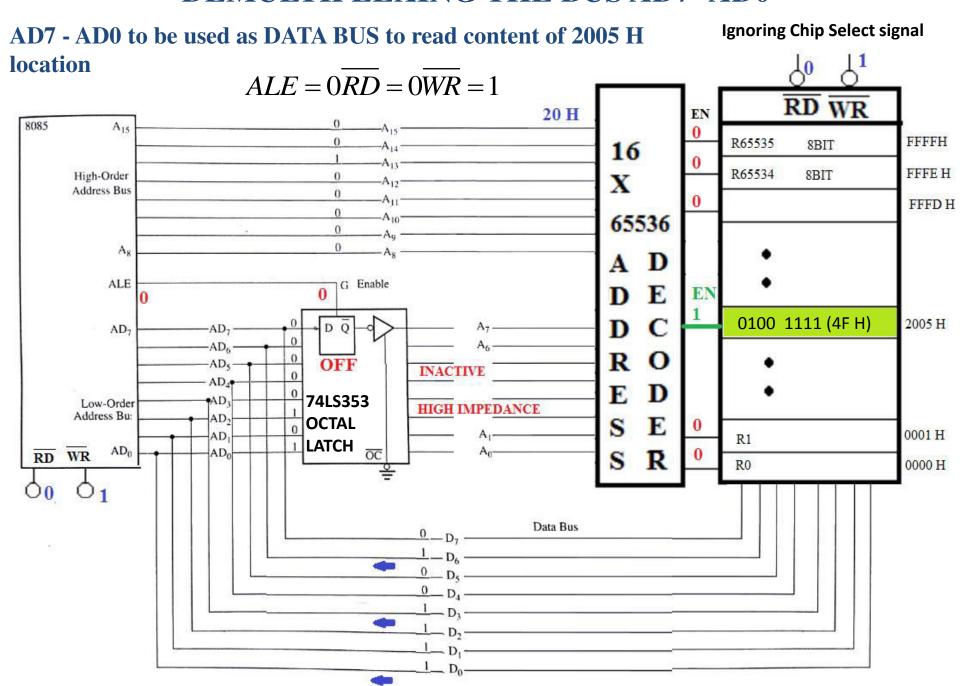
Ignoring Chip Select signal

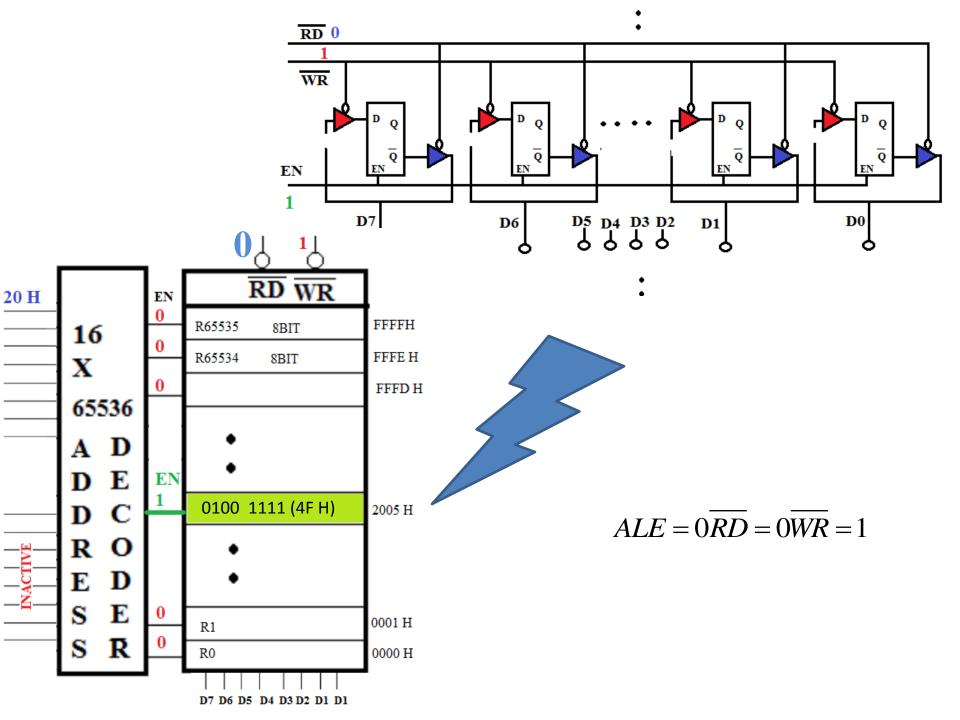


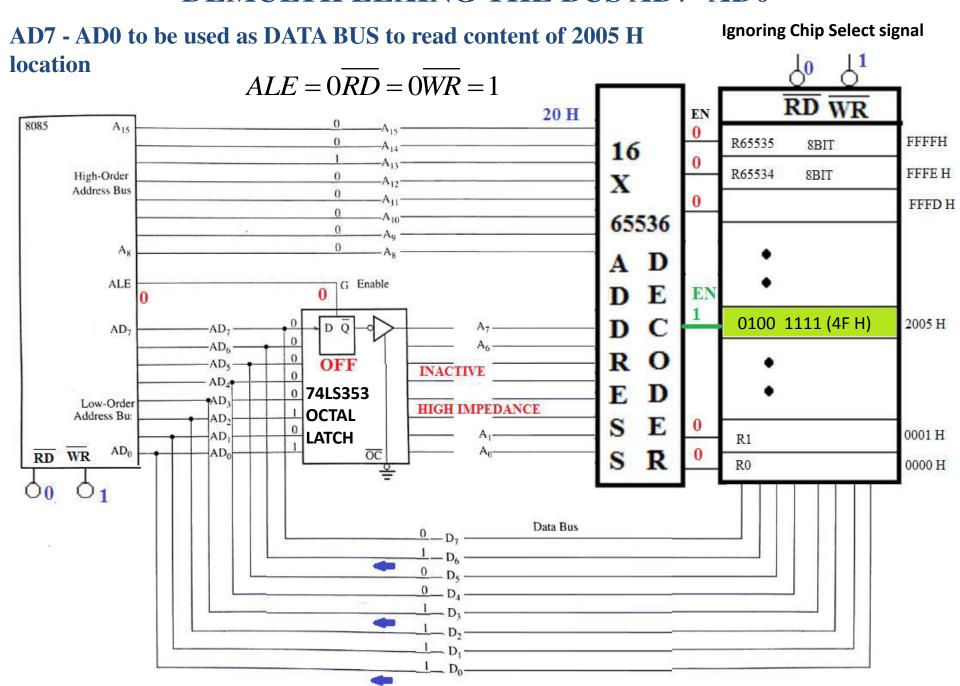








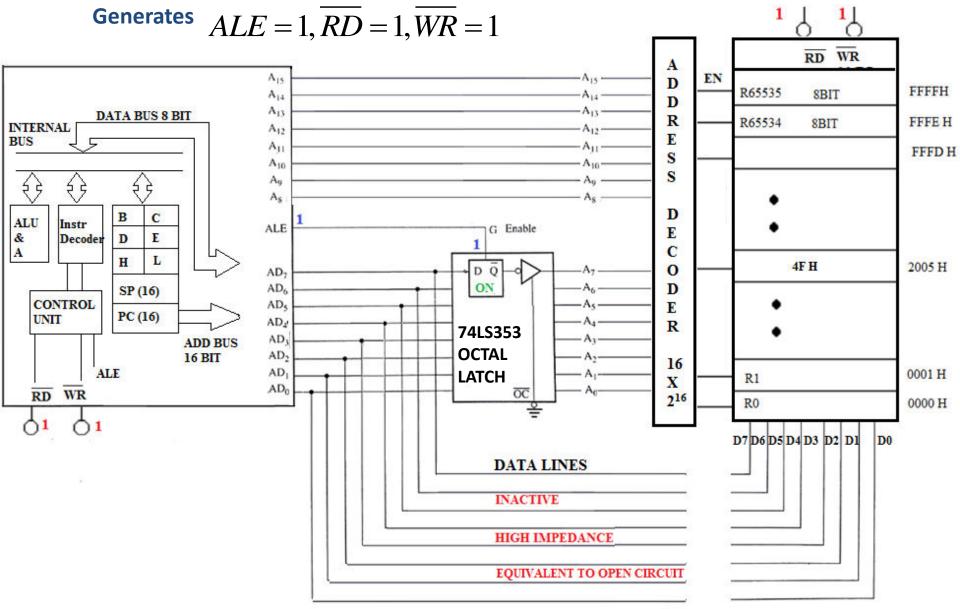




MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-1 (FIRST CLOCK CYCLE)

Ignoring Chip Select signal

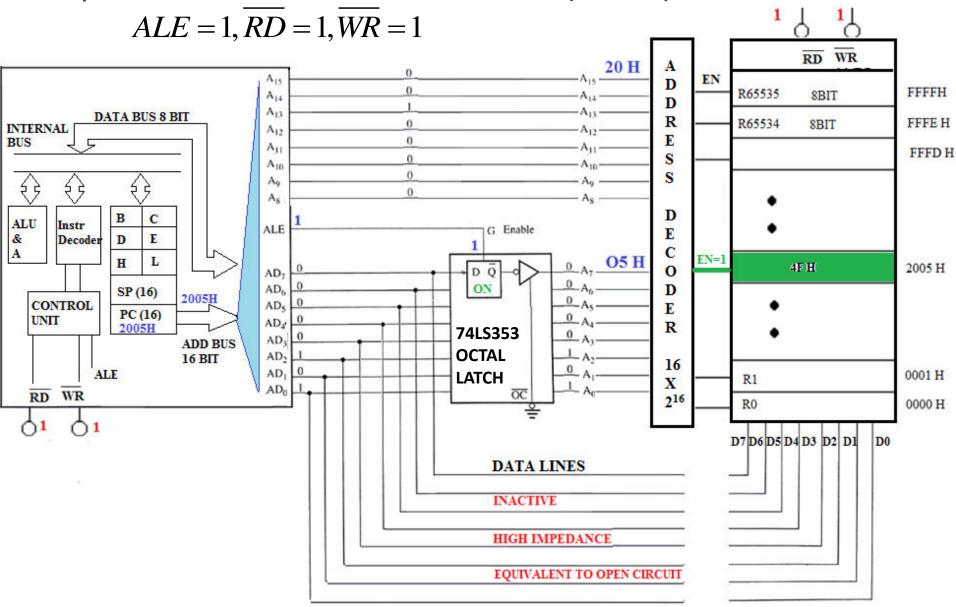




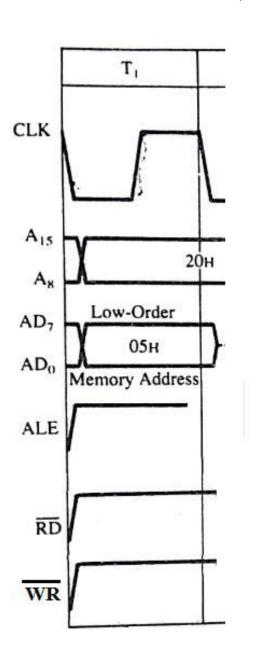
MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-1 (FIRST CLOCK CYCLE)

Ignoring Chip Select signal



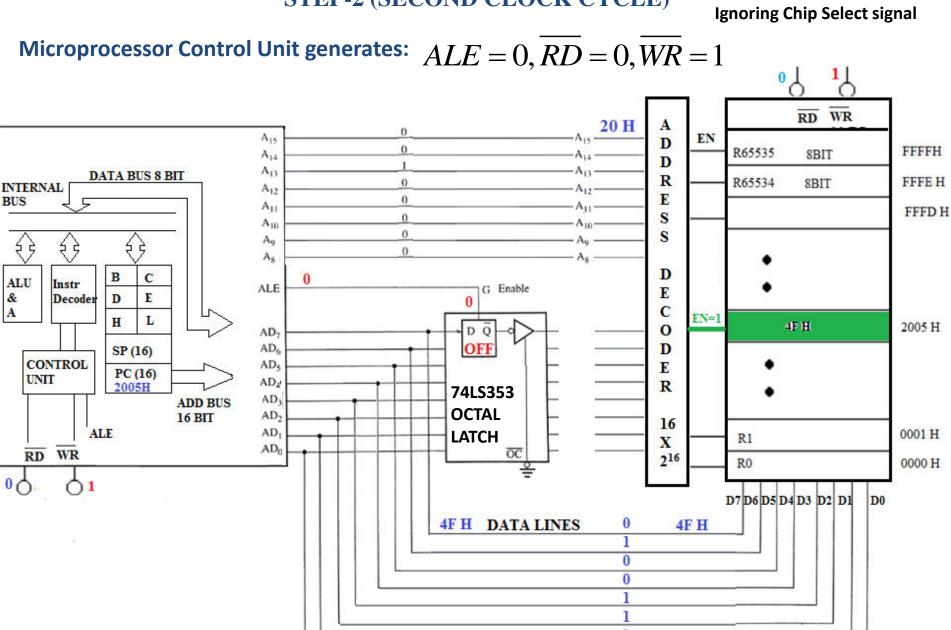


MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-1 (FIRST CLOCK CYCLE)



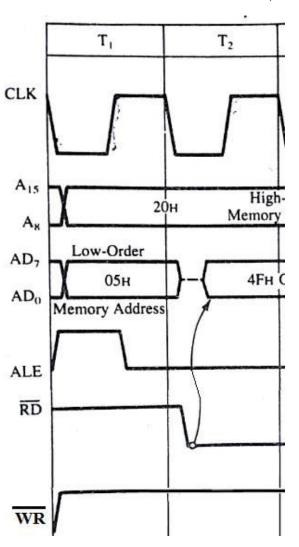
$$ALE = 1, \overline{RD} = 1, \overline{WR} = 1$$

MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-2 (SECOND CLOCK CYCLE)



MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-2 (SECOND CLOCK CYCLE)

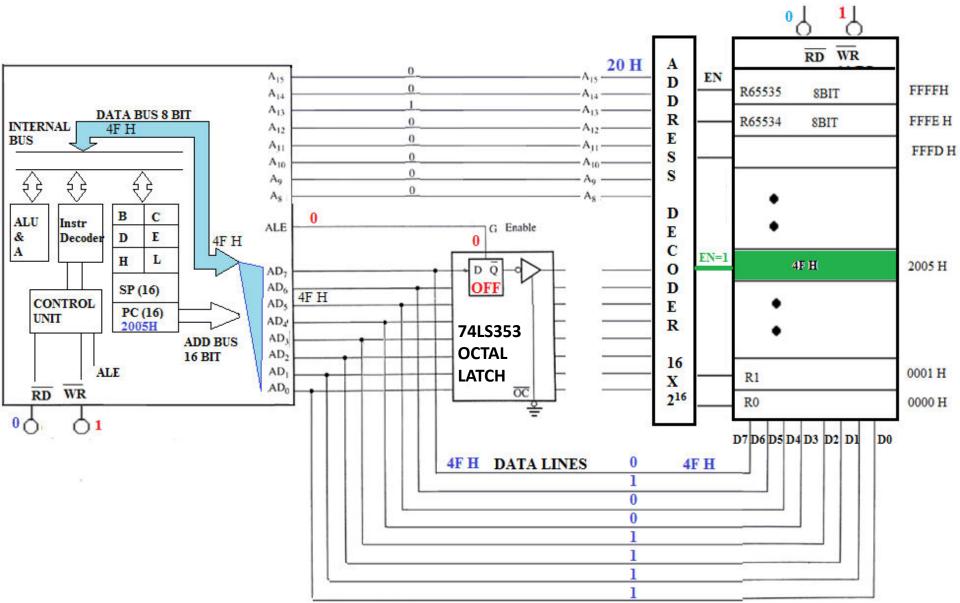
Microprocessor Control Unit generates: $ALE=0, \overline{RD}=0, \overline{WR}=1$



MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-3 (THIRD CLOCK CYCLE)

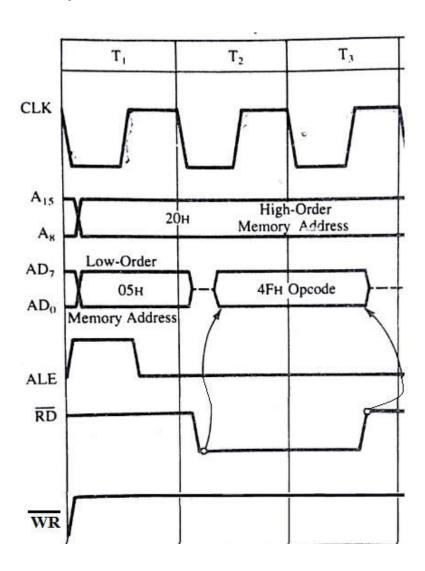
 $ALE = 0, \overline{RD} = 0, \overline{WR} = 1$

Opcode 4F H is placed on data lines



MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-3 (THIRD CLOCK CYCLE)

Opcode 4F H is placed on data lines



MICROPROCESSOR COMMUNICATION & BUS TIMING **STEP-4 (FOURTH CLOCK CYCLE)**

0

0

0

0 0

Ignoring Chip Select signal

Opcode 4F H goes to INSTRUCTION DECODER And get Executed

A14

A13

A12

 A_{11}

 A_{10}

ALE

AD,

AD,

AD,

AD4

AD

AD,

AD

AD₀

4F H

ADD BUS

16 BIT

0

4F H

DATA BUS 8 BIT

C

E

L

SP (16)

PC (16)

2005H

ALE

4F H

INTERNAL

BUS

ALU

Instr

CONTROL

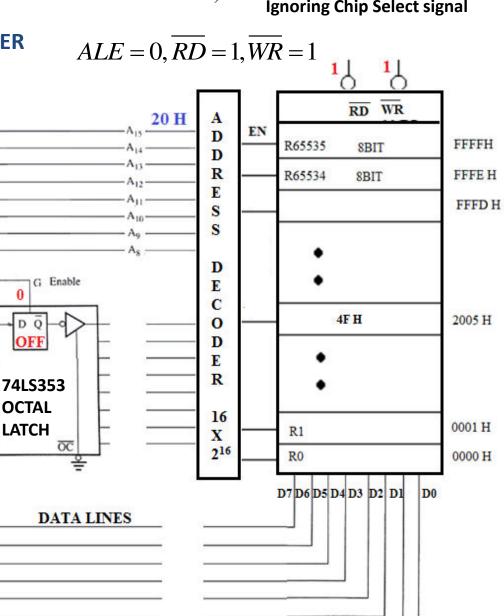
WR

UNIT

RD

Decoder

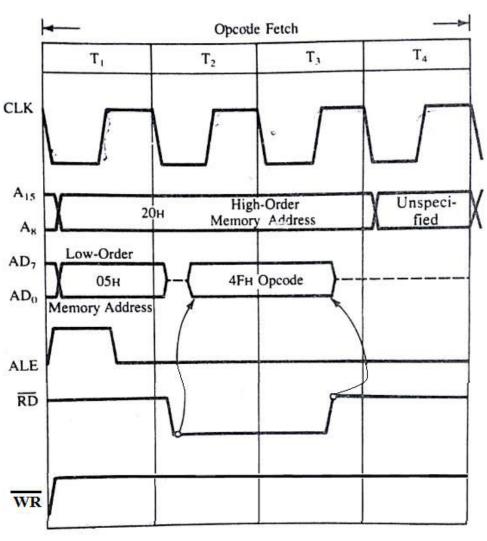
4F H



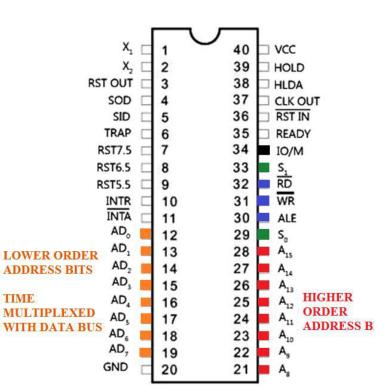
MICROPROCESSOR COMMUNICATION & BUS TIMING STEP-4 (FOURTH CLOCK CYCLE)

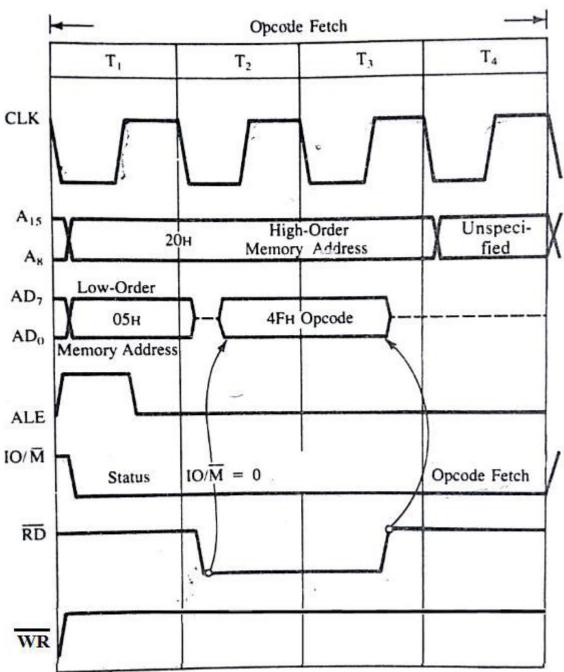
Opcode 4F H goes to INSTRUCTION DECODER And get Executed

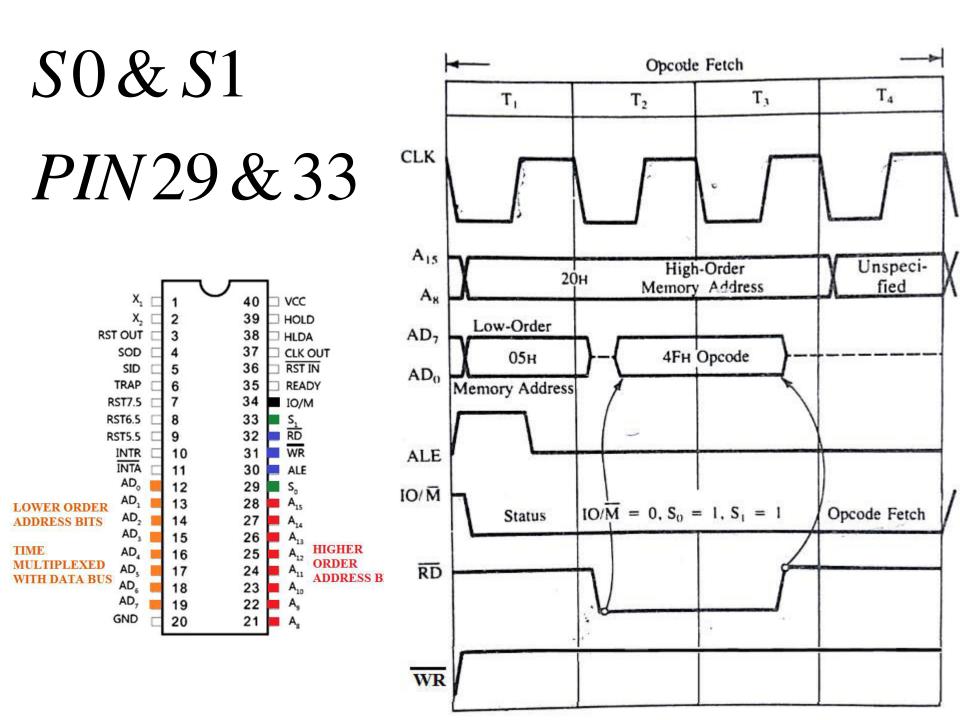
$$ALE = 0, \overline{RD} = 1, \overline{WR} = 1$$



IO / M PIN34







8085 REMAINING PINS

