

17-10 LDA IS THE MNEMONIC FOR
LOAD ACCUMULATOR.

4000# IS THE ADDRESS FOR THE DATA THAT
WILL BE LOADED INTO THE ACCUMULATOR.

17-11 STA 6000# SENDS THE CONTENTS OF
THE ACCUMULATOR TO ADDRESS 6000#.

17-13 THE INSTRUCTION REGISTER AND DECODER
RECEIVES THE MACHINE LANGUAGE CODE
FOR THE CURRENT INSTRUCTION AND
PRODUCES THE INTERNAL CONTROL SIGNALS
REQUIRED TO EXECUTE THE INSTRUCTION.

17-14. THE PROGRAM COUNTER REGISTER CONTAINS
THE ADDRESS OF THE NEXT PROGRAM INSTRUCTION
TO BE EXECUTED, THUS THE PROGRAM
COUNTER SHOULD BE THE SAME # OF BITS
AS THE ADDRESS BUS. IF NOT, THE
SIZE OF THE PROGRAM THAT COULD BE
EXECUTED WOULD BE LIMITED TO $2^8 = 256$
INSTRUCTIONS.