

INSTRUCTION SET

13 Bit Instruction Word

No Operation	00000	"00000-----"
Load A	00001	"00001000000001" -- load 1
Load C	00010	"00010000000001" -- load 1
Add value to A	00011	"00110000000001" -- add 1
Subtract Value from A	00100	"00100000000001" -- sub 1
NOT A	00101	"00101-----"
AND A	00110	"00110000000001" -- AND 1
OR A	00111	"00111000000001" -- OR 1
XOR A	01000	"01000000000001" -- XOR 1
Output to display	01001	"01001-----"
Store A to RAM addr specified	01010	"01010000000000" -- 0x00
Load RAM address to A	01011	"01011000000000" -- 0x00
Move C to A	01100	"01100-----"
Store Output to RAM addr specified	01101	"01101000000000" -- 0x00
Store C to RAM addr specified	01110	"01110000000000" -- 0x00
Jump to Address	10000	"10000000000000" -- 0x00
Clear A	10001	"10001-----"
Clear C	10010	"10010-----"
Multiply A	10111	"1011100000010" -- times 2
HALT	11111	(not implemented)