## ■ Initializing by Instruction

● **8-bit Interface (fosc=270KHz)**

POWER ON

↓

Wait time >40mS
After Vcc >4.5V

↓

**Function set**

| RS | R/W | DB7 | DB6 | DB5 | DB4 | DB3 | DB2 | DB1 | DB0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 | 1 | N | F | X | X |

← BF cannot be checked before this instruction.

↓

Wait time >37uS

↓

**Function set**

| RS | R/W | DB7 | DB6 | DB5 | DB4 | DB3 | DB2 | DB1 | DB0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 | 1 | N | F | X | X |

← BF cannot be checked before this instruction.

↓

Wait time >37uS

↓

**Display ON/OFF control**

| RS | R/W | DB7 | DB6 | DB5 | DB4 | DB3 | DB2 | DB1 | DB0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | D | C | B |

↓

Wait time >37uS

↓

**Display clear**

| RS | R/W | DB7 | DB6 | DB5 | DB4 | DB3 | DB2 | DB1 | DB0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

↓

Wait time >1.52mS

↓

**Entry mode set**

| RS | R/W | DB7 | DB6 | DB5 | DB4 | DB3 | DB2 | DB1 | DB0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | I/D | S |

↓

Initialization end