

## 1.0 Key Command Definition (40256)

Register 40256 can be written to with a set of specific ignition related actions. This register will only work for single register writes ( function code 06 ). If the CPU-95 Display module is currently executing a key command ( either from a previous modbus write or from the keypad ), the modbus exception "BUSY" ( 06 ) will be returned.

### 1.0.1 Key Commands

|        |   |
|--------|---|
| 0x01FE | Increment global retard                 |
| 0x02FD | Decrement global retard                 |
| 0x03FC | Enable current loop                     |
| 0x04FB | Disable current loop                    |
| 0x05FA | Enable RPM retard                       |
| 0x06F9 | Disable RPM retard                      |
| 0x07F8 | Enable serial retard                    |
| 0x08F7 | Disable serial retard                   |
| 0x09F6 | Enable EEPROM protection                |
| 0x0AF5 | Disable EEPROM protection               |
| 0x0BF4 | Increment Energy Setting                |
| 0x0CF3 | Decrement Energy Setting                |
| 0x0DF2 | Enable Multistrike                      |
| 0x0EF1 | Disable Multistrik                      |
| 0x0FF0 | Increment Overspeed                     |
| 0x10EF | Decrement Overspeed                     |
| 0x11EE | Increment reset position                |
| 0x12ED | Decrement reset position                |
| 0x13EC | Ignition fault reset                    |
| 0x14EB | Ignition alarm acknowledge              |
| 0x15EA | Save current cylinder offsets to EEPROM |
| 0x16E9 | Reset manual offsets to 0 in EEPROM     |
| 0x17E8 | Begin Test Mode                         |
| 0x18E7 | Abort Test Mode                         |
| 0x19E6 | Increment Test Type                     |
| 0x1AE5 | Decrement Test Type                     |
| 0x1BE4 | Increment onestep retard                |
| 0x1CE3 | Decrement onestep retatd                |
| 0x1DE2 | Increment ignition idcode               |
| 0x1EE1 | Decrement ignition idcode               |
| 0x1FE0 | Increment diagnostic lo spark voltage   |
| 0x20DF | Decrement diagnostic lo spark voltage   |
| 0x21DE | Increment diagnostic hi spark voltage   |
| 0x22DD | Decrement diagnostic hi spark voltage   |
| 0x23DC | Increment diagnostic no spark voltage   |
| 0x24DB | Decrement diagnostic no spark voltage   |

|        |           |                    |                       |
|--------|-----------|--------------------|-----------------------|
| 0x25DA | Increment | diagnostic lo      | from engine threshold |
| 0x26D9 | Decrement | diagnostic lo      | from engine threshold |
| 0x27D8 | Increment | diagnostic hi      | from engine threshold |
| 0x28D7 | Decrement | diagnostic hi      | from engine threshold |
| 0x2BD4 | Increment | E2 enable          | threshold             |
| 0x2CD3 | Decrement | E2 enable          | threshold             |
| 0x2DD2 | Increment | E2 hysteresis      | threshold             |
| 0x2ED1 | Decrement | E2 hysteresis      | threshold             |
| 0x2FD0 | Increment | E3 enable          | threshold             |
| 0x30CF | Decrement | E3 enable          | threshold             |
| 0x31CE | Increment | E3 hysteresis      | threshold             |
| 0x32CD | Decrement | E3 hysteresis      | threshold             |
| 0x33CC | Reset     | diagnostic offsets | for all cylinders     |
| 0x40BF | Increment | cylinder timing    | (A or A1)             |
| 0x41BE | Increment | cylinder timing    | (B or A2)             |
| 0x42BD | Increment | cylinder timing    | (C or B1)             |
| 0x43BC | Increment | cylinder timing    | (D or B2)             |
| 0x44BB | Increment | cylinder timing    | (E or C1)             |
| 0x45BA | Increment | cylinder timing    | (F or C2)             |
| 0x46B9 | Increment | cylinder timing    | (K or D1)             |
| 0x47B8 | Increment | cylinder timing    | (L or D2)             |
| 0x48B7 | Increment | cylinder timing    | (M or E1)             |
| 0x49B6 | Increment | cylinder timing    | (N or E2)             |
| 0x4AB5 | Increment | cylinder timing    | (P or F1)             |
| 0x4BB4 | Increment | cylinder timing    | (R or F2)             |
| 0x4CB3 | Increment | cylinder timing    | (S or K1)             |
| 0x4DB2 | Increment | cylinder timing    | (T or K2)             |
| 0x4EB1 | Increment | cylinder timing    | (U or L1)             |
| 0x4FB0 | Increment | cylinder timing    | (V or L2)             |
| 0x50AF | Increment | cylinder timing    | ( or M1)              |
| 0x51AE | Increment | cylinder timing    | ( or M2)              |
| 0x52AD | Increment | cylinder timing    | ( or N1)              |
| 0x53AC | Increment | cylinder timing    | ( or N2)              |
| 0x609F | Decrement | cylinder timing    | (A or A1)             |
| 0x619E | Decrement | cylinder timing    | (B or A2)             |
| 0x629D | Decrement | cylinder timing    | (C or B1)             |
| 0x639C | Decrement | cylinder timing    | (D or B2)             |
| 0x649B | Decrement | cylinder timing    | (E or C1)             |
| 0x659A | Decrement | cylinder timing    | (F or C2)             |
| 0x6699 | Decrement | cylinder timing    | (K or D1)             |
| 0x6798 | Decrement | cylinder timing    | (L or D2)             |
| 0x6897 | Decrement | cylinder timing    | (M or E1)             |
| 0x6996 | Decrement | cylinder timing    | (N or E2)             |

|        |           |                   |           |
|--------|-----------|-------------------|-----------|
| 0x6A95 | Decrement | cylinder timing   | (P or F1) |
| 0x6B94 | Decrement | cylinder timing   | (R or F2) |
| 0x6C93 | Decrement | cylinder timing   | (S or K1) |
| 0x6D92 | Decrement | cylinder timing   | (T or K2) |
| 0x6E91 | Decrement | cylinder timing   | (U or L1) |
| 0x6F90 | Decrement | cylinder timing   | (V or L2) |
| 0x708F | Decrement | cylinder timing   | ( or M1)  |
| 0x718E | Decrement | cylinder timing   | ( or M2)  |
| 0x728D | Decrement | cylinder timing   | ( or N1)  |
| 0x738C | Decrement | cylinder timing   | ( or N2)  |
| 0xC03F | Increment | diagnostic offset | (A or A1) |
| 0xC13E | Increment | diagnostic offset | (B or A2) |
| 0xC23D | Increment | diagnostic offset | (C or B1) |
| 0xC33C | Increment | diagnostic offset | (D or B2) |
| 0xC43B | Increment | diagnostic offset | (E or C1) |
| 0xC53A | Increment | diagnostic offset | (F or C2) |
| 0xC639 | Increment | diagnostic offset | (K or D1) |
| 0xC738 | Increment | diagnostic offset | (L or D2) |
| 0xC837 | Increment | diagnostic offset | (M or E1) |
| 0xC936 | Increment | diagnostic offset | (N or E2) |
| 0xCA35 | Increment | diagnostic offset | (P or F1) |
| 0xCB34 | Increment | diagnostic offset | (R or F2) |
| 0xCC33 | Increment | diagnostic offset | (S or K1) |
| 0xCD32 | Increment | diagnostic offset | (T or K2) |
| 0xCE31 | Increment | diagnostic offset | (U or L1) |
| 0xCF30 | Increment | diagnostic offset | (V or L2) |
| 0xD02F | Increment | diagnostic offset | ( or M1)  |
| 0xD12E | Increment | diagnostic offset | ( or M2)  |
| 0xD22D | Increment | diagnostic offset | ( or N1)  |
| 0xD32C | Increment | diagnostic offset | ( or N2)  |
| 0xE01F | Decrement | diagnostic offset | (A or A1) |
| 0xE11E | Decrement | diagnostic offset | (B or A2) |
| 0xE21D | Decrement | diagnostic offset | (C or B1) |
| 0xE31C | Decrement | diagnostic offset | (D or B2) |
| 0xE41B | Decrement | diagnostic offset | (E or C1) |
| 0xE51A | Decrement | diagnostic offset | (F or C2) |
| 0xE619 | Decrement | diagnostic offset | (K or D1) |
| 0xE718 | Decrement | diagnostic offset | (L or D2) |
| 0xE817 | Decrement | diagnostic offset | (M or E1) |
| 0xE916 | Decrement | diagnostic offset | (N or E2) |
| 0xEA15 | Decrement | diagnostic offset | (P or F1) |
| 0xEB14 | Decrement | diagnostic offset | (R or F2) |
| 0xEC13 | Decrement | diagnostic offset | (S or K1) |

|        |                                       |
|--------|---------------------------------------|
| 0xED12 | Decrement diagnostic offset (T or K2) |
| 0xEE11 | Decrement diagnostic offset (U or L1) |
| 0xEF10 | Decrement diagnostic offset (V or L2) |
| 0xF00F | Decrement diagnostic offset ( or M1)  |
| 0xF10E | Decrement diagnostic offset ( or M2)  |
| 0xF20D | Decrement diagnostic offset ( or N1)  |
| 0xF30C | Decrement diagnostic offset ( or N2)  |