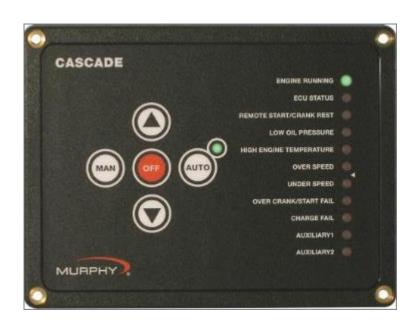
Quick Start Guide Setting Up the CD101 from Keypad



Setting Up the Cascade

To enter the **SETUP Mode**, first remove DC power to the Cascade controller for approximately 10 seconds.

On the back of the controller are four DIP switches, set switch #1 to ON (see schematic at right) then restore DC power. The **AUTO** mode LED will blink to indicate that the Cascade is in the **SETUP MODE**.

When in the **SETUP MODE**, pressing the "**MAN**" (Manual) button steps up thru the entire list of parameters. The pattern of the top six LEDs, LEDs Bank 1 is used to indicate which parameter is selected. The pattern will change once each time the "**MAN**" button is pressed.

Pressing the "**OFF**" button steps up thru all the available values for each parameter. The pattern of the bottom five LEDs, LEDs Bank 2 is used to indicate which value is selected. The pattern will change once each time the **OFF** button is pushed.

Pressing the "AUTO" button stores the displayed value.

CASCADE

ENGINE RUNNING
ECU STATUS

PEMOTE STATICANIK REST
LOW OIL PRESSURE
HIGH ENGINE TEMPERATURE
OVER SPEED
UNDER SPEED
OVER CRANK/START FAIL
AUXILIARYS

AUXILIARYS

LEDS Bank 2

Move Switch toward

the numbers to Turn On

1 2 3 4

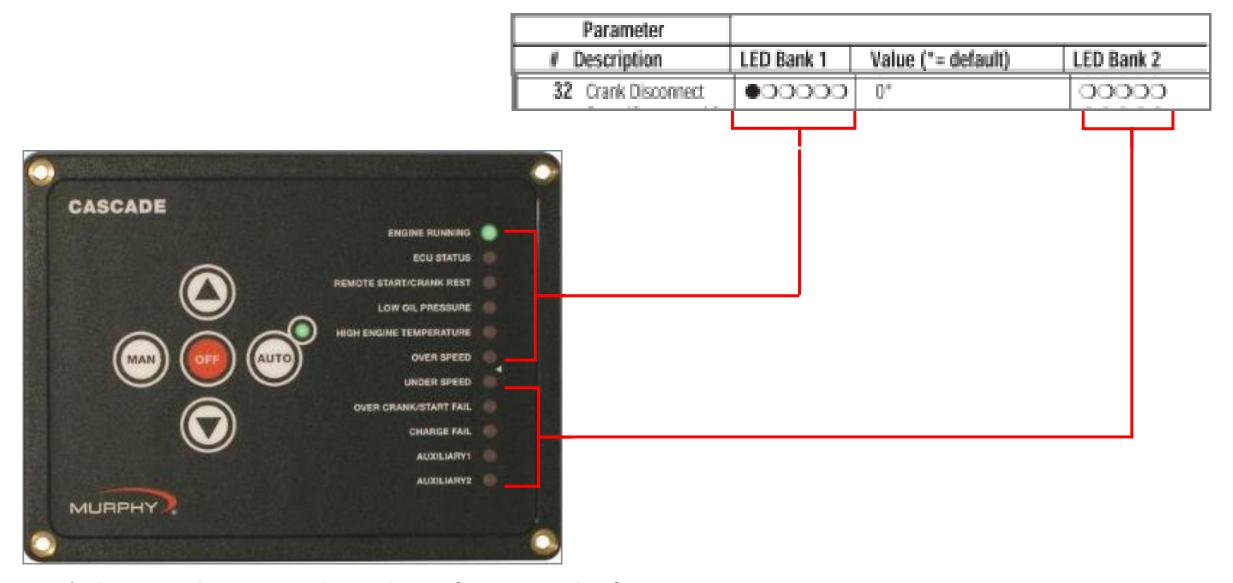
O O O O

If any value is changed, it will blink until stored, except a value of zero. If any value is changed but not stored, and the parameter is changed, the value will still be what was shown originally.

If you accidentally go past a desired parameter or value, you can step back by pressing the down arrow button.

The complete parameter/value list and corresponding LED indication are shown on Table 1 – Parameter Values and Corresponding LED indication. (see pages 15-18 of the Installation and Operations Manual) via the following link; Product Information (enovationcontrols.com).

When you are finished with setup, set switch #1 to the Normal Operating Position (OPEN) remove DC power for 10 seconds, then restore DC power.



LED's shown on the CD101 indicate the configuration value for parameter 32 shown from Top to bottom on the CD101.

LED's read from left to right on the Parameter list at top of page, a filled dot means LED is on.

Not all Parameters need to be changed. Parameters that typically need to be changed include.

| Parameter | | | | |
|-----------|---------------------|--|--------------------|------------|
| # | Description | LED Bank 1 | Value (*= default) | LED Bank 2 |
| 1 | Engine Speed Source | \bullet | Magnetic Pickup* | 00000 |
| | | | Generator AC | 0000 |
| | | | J1939 (ECU) | 00000 |
| 7 | Preheat Timer | \bigcirc | 0 Sec* | 00000 |
| | | | 5 Sec | 0000 |
| | | | 10 Sec | 00000 |
| | | | 15 Sec | 00000 |
| | | | 20 Sec | 00000 |
| | | | 25 Sec | 00000 |
| | | | 30 Sec | 00000 |
| | | | 45 Sec | 00000 |
| | | | 60 Sec | 00000 |

Set the Flywheel Tooth Count in parameters 48,49,50 when Magnetic Pickup is selected.

If application calls for Glow Plug Set parameter 7 Value and then set parameter 23 to preheat.

| Parameter | | | |
|-----------------------|------------|-------------------------|------------|
| # Description | LED Bank 1 | Value (*= default) | LED Bank 2 |
| 23 Auxiliary Output 1 | 00000 | Not Used* | 00000 |
| | | Warmup | 0000 |
| | | Cooldown | 00000 |
| | | Warmup/Cooldown | 00000 |
| | | Preheat | 00000 |
| | | Engine Running | 00000 |
| | | At Load | 00000 |
| | | Lo Oil Press Shutdown | 00000 |
| | | Hi Eng Temp. Shutdown | 00000 |
| | | Overspeed Shutdown | 0000 |
| | | Overcrank Shutdown | 00000 |
| | | Alternator Fail/Battery | |
| | | High/Low/Weak | 00000 |
| | | Engine Speed Up | 00000 |
| | | Engine Speed Down | 0000 |
| | | Common Alarm | 0000 |
| | | Controller in | |
| | | AUTO mode | 00000 |
| | | Shutdown | 00000 |
| | | Loss of Speed | |
| | | Signal Fault | ●○○○● |
| | | Underspeed Fault | 00000 |

If Preheat timer Value is set in parameter 7 Set parameter 23 to Preheat.

| Parameter | | | |
|--------------------|------------|--------------------|------------|
| # Description | LED Bank 1 | Value (*= default) | LED Bank 2 |
| 42 Lo Batt Voltage | •0•0•0 | Warning Disabled | 00000 |
| Setpoint. | | 8.5V | 0000 |
| | | 9.0V | 00000 |
| | | 9.5V | 00000 |
| | | 10.0V | 00000 |
| | | 10.5V* | 00000 |
| | | 11.0V | 00000 |
| | | 11.5V | 00000 |
| | | 18.0V | 0000 |
| | | 19.0V | 0000 |
| | | 20.0V | 0000 |
| | | 21.0V | 00000 |
| | | 22.0V | 00000 |
| | | 22.5V | 0000 |
| | | 23.0V | 00000 |
| | | 23.5V | 00000 |

24 Volt systems will require changesto parameters 42,43 and 44.42 Low Batt Voltage Setpoint43 High Batt Voltage Setpoint44 Weak Batt Voltage Setpoint