

Overview of internally configuring or re-configuring a SureFly SIM

This overview is a companion, not a substitution for the installation instructions. Installation instructions vary by SIM model (example: SIM4P, SIM4N, SIM6C, SIM6L). The latest revision of the installation instructions for all SureFly SIM models are available at: <https://www.surefly.aero/installation>

If, at any time configured dip switch settings are changed then steps must be followed to ensure proper SIM operation. Dip switch settings are used by the installer to select engine base timing, optional fixed or variable timing, and for 6 cylinder models, direction of rotation. The SIM must be removed from the engine to re-configure the dip switches and complete the internal configuration steps. Ensure the P-lead is ungrounded and power is removed from the POWER terminal.

1. You will need a fresh 9V battery to complete SIM configuration/re-configuration. Once dip switch settings are changed, power must be applied to the terminal labeled TIMING. Applying power to the TIMING terminal tells SIM to “read” the dip switch settings. With power (+) applied to the TIMING terminal and negative (-) applied to the unpainted SIM housing or allen head bolts, look for the LED to illuminate solid green. If the LED illuminates solid green, internal configuration was successful. Proceed to Step 2 and verify configuration is correct.
2. Remove power from the TIMING post and apply power to the POWER post. The LED will produce a series of 4 flashes. This series of 4 flashes will continue 4 times before the LED extinguishes. To produce the series of 4 flashes again, momentarily remove power from the POWER terminal, then re-apply. Each of the 4 flashes will be either short or long. Use the chart in the instructions to verify LED blink code is correct for your application.
3. If all the steps for configuring/re-configuring the SIM are not followed the LED on the SIM may flash rapidly when power is applied to the POWER terminal. If the LED is flashing rapidly, this may indicate that the dip switch settings are not in agreement with the SIM. Return to Step 1 of this overview.