

Dakota Digital

SGI-8 rev. C SIGNAL INTERFACE UNIT

This unit can recalibrate an ignition system tachometer signal.

Wiring:

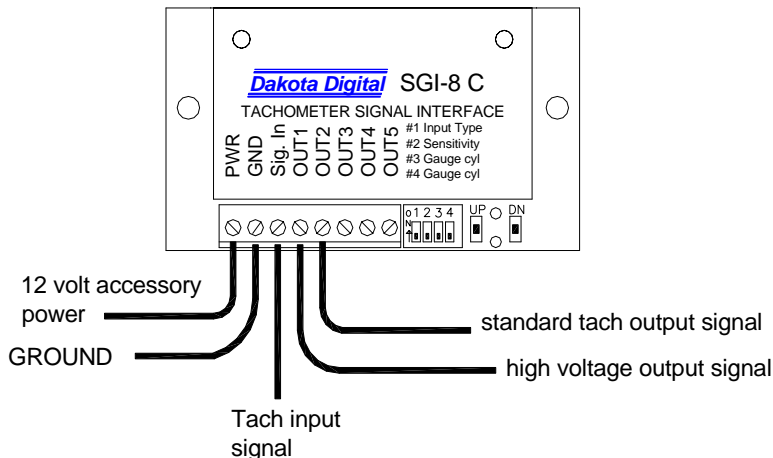
- PWR - 12 volt accessory power
- GND - ground
- Sig. In - Ignition system tach signal
(negative side of coil or tach output)
- OUT1 - high voltage output for some tachometers
- OUT2 - standard output to tachometer
- OUT3 - not used
- OUT4 - not used
- OUT5 - not used

If OUT2 does not drive your tachometer, try using OUT1.

Switch settings:

| switch | ON | OFF |
|--------|----------------------|----------------------|
| #1 | ECM tach signal | Standard tach signal |
| #2 | Standard tach signal | Low volt tach signal |

| | #3 | #4 |
|--------------|-----|-----|
| 4 cyl gauge | Off | Off |
| 6 cyl gauge | Off | On |
| 8 cyl gauge | On | Off |
| 10 cyl gauge | On | On |



Setup and diagnostic lights

| RED | GREEN | Status |
|-----|----------|---|
| OFF | OFF | Power off. |
| OFF | ON | Power on, no tach signal present |
| OFF | Flashing | Power on, tach signal present |
| ON | Flashing | Engine cylinder calibration adjustment mode |
| ON | ON | UP switch is being held to preset cal |
| ON | OFF | DN switch is being held to enter setup mode |

Calibration

Set DIP switches #3 and #4 for the cylinder count the gauge is designed for. Use the UP and DN push button switches to adjust the engine cylinder count settings.

To adjust the engine cylinder count:

1. Begin with the key off.
2. Press and hold the DN switch while turning the key on. The RED light should be on.
3. Release the DN switch. The GREEN light will begin flashing the current engine cylinder count. It will flash the current setting, wait, flash the current setting, wait, etc.
4. To increase the setting, press and release the UP switch. To decrease the setting, press and release the DN switch.
5. When the GREEN light flashes the correct number of times, turn the key off.

Quick preset: You can also quickly set the engine cylinder count to 4, 6, 8, or 10. Hold the UP push button while turning the key on. After setting the engine cylinder count, change the position of switch #3 & #4 to match the gauge.

Set to 4: Turn setup switch #3 off, #4 off, hold the UP button while turning key on.

Set to 6: Turn setup switch #3 off, #4 on, hold the UP button while turning key on.

Set to 8: Turn setup switch #3 on, #4 off, hold the UP button while turning key on.

Set to 10: Turn setup switch #3 on, #4 on, hold the UP button while turning key on.

Setup example:

If you have a factory 6 cylinder tachometer and are now using an 8 cylinder engine, set the engine cylinder count to 8. Turn switch #3 OFF and switch #4 ON to set it for a 6 cylinder tach.

Trouble shooting guide

| <u>Problem</u> | <u>Possible Cause</u> | <u>Solution</u> |
|---|---|---|
| Tachometer will not work. GREEN light off. | No power to SGI-8. | Check the power and ground terminals on the SGI-8. Should be 11-15 V dc. |
| Tachometer will not work. GREEN light on steady. | No input signal. SGI-8 set for wrong input type. | Test for 1-20 volts AC at the signal in terminal with the engine running. Change the position of switch #1 or switch #2. |
| Tachometer will not work. GREEN light flashing. | Wrong output type. | Try switching from OUT2 to OUT1. |
| Tachometer will not read at high rpm. | SGI-8 set for wrong input type. | Change position of switch #2. |

Tech Support

You can contact us with any questions you may have by phone, fax, or email.

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