



Serial Port Switch User Instructions



Welcome

Congratulations on your purchase of a Revo SPS.

These instructions are a guide to using your Revo serial port switch. Further advice can always be obtained by contacting the Revo dealer where you purchased this device or by visiting the Revo website at: www.revotechnik.com

Your SPS is engineered to serve you well over many years if properly cared for.

We suggest that you store your SPS in the box to protect it from damage. Also please avoid getting the SPS unit wet.

Serial Port Switching is a patent pending technology from Revo that allows you an unprecedented amount of control over your modern computerised vehicle.

Note:- Batteries are not required for your SPS.

Operation

All DBW (drive by wire) models

All current model Porsche* and Volkswagen Audi Group (VAG**) Petrol vehicles use DBW. Ask your dealer or visit the Revo website at: www.revotechnik.com to confirm your vehicle specification.

All SPS functions are supported by Petrol turbocharged DBW engines.

1. Locate the OBD-II port.
Refer to owner's manual.
2. Turn ignition on, wait 10 seconds.
3. Select setting on SPS.
4. Connect SPS to OBD-II port.
5. SPS will start beeping after a few seconds.
6. Remove SPS when beeping is active.
7. Repeat steps 3-6 as desired.
8. Start engine.

All Non-DBW (conventional throttle cable) and Diesel models

SPS switching on Diesel and non-DBW are the same.

Non-DBW engines can be distinguished by the throttle cable attached to the throttle body. Ask your dealer or visit the Revo website at www.revotechnik.com to confirm your vehicle specification.

Only SPS 1 function's are supported on these engines.

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Refer to owner's manual.
2. Turn ignition on, wait 10 seconds.
3. Select setting on SPS.
4. Connect SPS to OBD-II port.
5. SPS will start beeping after a few seconds.
6. Remove SPS when beeping is active.
7. Turn ignition off, wait 10 seconds.
8. Start engine.

SPS Variants

Now we will cover the differences between each SPS unit. Some of the functions will be described in more detail as we go along or at the end of this section.

SPS 1

Mode 0: SPS inactive.

Mode 1: Stock mode.

Mode 2: Performance mode enabled.

All other positions are disabled.

The Stock mode runs the original factory boost, ignition, and fuelling. This provides stock performance.

Performance mode activates the Revo performance settings.

For DBW engines, these settings are as default or as last set by your Revo dealer.

SPS 2

When used on Non-DBW and Diesel models, the SPS 2 acts like an SPS 1. For DBW, it performs the following operations;

- Mode 0:** SPS inactive.
- Mode 1:** Stock mode.
- Mode 2:** Performance mode Enabled - Timing 0.
- Mode 3:** Performance mode Enabled - Timing 5.
- Mode 4:** Performance mode Enabled - Timing 9.
- Modes 5-7:** Not used.
- Mode 8:** Anti-Theft Enabled.
- Mode 9:** Anti-Theft Disabled.

Timing 0 is for 95 Ron or 91 (RON+MON)/2 octane fuel.
Timing 5 is for 98 Ron or 93 (RON+MON)/2 octane fuel.
Timing 9 is for unleaded race fuel, any octane over 100.

SPS 3

When used on Non-DBW and Diesel models, the SPS 3 acts like an SPS 1. The Mode selector is active, but the range selector is inactive. For DBW, the SPS 3 performs the following operations;

- Mode 0:** SPS inactive.
- Mode 1:** Stock mode.
- Mode 2:** Performance mode enabled.
- Mode 3:** Boost adjustment
- Mode 4:** Fuel adjustment
- Mode 5:** Timing adjustment
- Modes 6-7:** Not used
- Mode 8:** Anti-Theft Enabled.
- Mode 9:** Anti-Theft Disabled.

Modes 3-5 have the Vario adjustment. This uses the range selector to make a fine adjustment to the setting.

Vario Range Guidelines DBW (drive by wire)

Mode 3 Boost adjustment:

- Range 0:** Valet mode.
- Range 1:** Stock Boost.
- Range 6:** Performance Boost.
- Range 9:** Aggressive Boost.

Mode 4 Fuel Adjustment:

- Range 0:** Stock Air-Fuel Ratio (AFR).
- Range 9:** Performance AFR.

Range 9 is the default performance setting. The fuel adjustment is not available on all cars. Please refer to our additional tuning guide for more information.

Mode 5 Timing Adjustment:

- Range 0-3:** 95 Ron or 91 (RON+MON)/2 octane fuel.
- Range 4-6:** 98 Ron or 93 (RON+MON)/2 octane fuel.
- Range 7-9:** unleaded race fuel, octane over 100.

Anti-Theft Mode

To enable Anti-Theft modes, an SPS 2 or SPS 3 is required. This is only available for DBW vehicles.

Do not attempt to start the engine after enabling the Anti-Theft function at the end of the SPS switching procedure. Simply turn the ignition off.

When Anti-Theft is enabled, the vehicle will not run. The engine may catch if starting is attempted, however the engine will not run normally.

The engine can be started normally after disabling the Anti-Theft function.

Please note that if there was an attempt to start the engine while the Anti-Theft was enabled, then it may stumble when first started again. A simple blip of the throttle will clear the engine.

SPS 3 Disclaimer

By utilising the advanced user settings on the SPS 3, the user is responsible for having intimate knowledge of the vehicle being tuned and the principles of tuning.

Certain situations can lead to conditions that are outside of the safe operating range tested by Revo engineers.

The user acknowledges that Revo cannot be held responsible for the performance and reliability of tuning that has been altered via the SPS 3 advanced user settings.

Please note that Revo does not make any claims as to the long term reliability of the car at any high boost settings. Premium fuel or better should be used for all boost settings over 6.

Certain combinations of settings can be risky. For a more complete explanation of the settings, what they do, how to measure the results, and how to make sure that your settings are safe, please refer to our supplementary tuning guide available from your Revo dealer or the Revo website at: www.revotechnik.com

There are also forums and other resources on the Revo website where you can seek more information and discuss these settings. Revo is not responsible for any advice given by third parties. The user is responsible for the settings that they utilise.

Warranty

The Revo SPS device is not designed to be user serviceable. Please take it to your Revo dealer for any service requirements.

Revo will repair or replace your SPS at our discretion, during the first 12 months of ownership.

Processing is done through the original point of purchase with full receipts and warranty paperwork.

* The Porsche name is used for descriptive purposes only. No affiliation with Porsche AG is implied.

** The VAG term is used for descriptive purposes only. No affiliation with Volkswagen Audi Group and/or Volkswagen Group is implied.

We do hope you enjoy your Revo software. It has been designed with the user in mind.

Our SPS switching technology allows you to add functionality to that software - these are products that set us apart from our competitors.

go play!