

Spitronics ECU - Device Information - Guide

The Device Information page identifies the hardware, firmware and licensing information of the ECU currently connected to the software.

This information is useful when:

- Checking that the correct Device is connected.
- Confirming the firmware loaded into the ECU.
- Checking hardware compatibility.
- Confirming activation status.
- Requesting technical support.
- Comparing different Devices or firmware versions.

The exact fields displayed may vary according to Device type, firmware and software version.

Software and Firmware

Software and firmware are two different parts of the system.

Software

The software is the PC program used to:

- Connect to the ECU.
- Configure settings.
- Tune the engine.
- View Real-Time Data.
- Save and load Tunes.
- Perform diagnostics.

Cosmos is the current software platform for newer Spitronics Devices.

Firmware

Firmware is the program stored inside the ECU that controls how the Device operates.

The firmware determines:

- What type of application the Device performs.
- Which Inputs and Features are available.
- Which drivers are used.
- Which tuning functions are available.
- How the ECU controls the engine.

The firmware loaded into the Device must be compatible with the hardware and the required application.

The older Spitronics documentation used the same basic distinction between firmware running inside the Device and software running on the PC.

Opening Device Information

Connect the ECU to the software and select:

Device Information

The Device Information page displays information in sections such as:

- Hardware.
- Firmware.
- Licensing.

Device Information	
Hardware	
Device Serial Number	001 128 153 194
Board Number	26 01 90 06
Hardware Type	Callisto
Firmware Type Locked	ECU
Firmware Number Locked	41
Brand Code	3
Firmware	
Firmware Type	Engine Control Unit
Firmware Version	1.2.C
Firmware Number	41 (36-2 6Cyl Smart Coil)
Engine Config	6SC 6Inj 6GP
Licensing	
Credits	12
Activation Date	2026-08-27
Status	Active



The information displayed is normally for identification and support purposes rather than normal tuning adjustment.

Hardware

The Hardware section identifies the physical Device and any restrictions associated with it.

Typical fields include:

- Device Serial Number.
- Board Number.
- Hardware Type.
- Firmware Type Locked.
- Firmware Number Locked.
- Brand Code.

The current Cosmos Device Information structure uses these hardware identification fields.

Device Serial Number

Every Device has a unique serial number.

The serial number is used to identify the individual Device.

It may also be used for:

- Device records.
- Activation.
- Support.
- Tune file identification.
- Database information.
- Warranty or service information.

When requesting technical support, include the Device Serial Number where relevant.

The serial number is also used by the software for Device identification and file management.

Board Number

Board Number identifies the hardware board revision fitted inside the Device.

This can be important when:

- Checking hardware compatibility.
- Identifying production revisions.
- Determining whether a firmware feature is supported.
- Diagnosing hardware-related differences.
- Requesting technical support.

Different board revisions may have different hardware capabilities even when the external Device appears similar.

Hardware Type

Hardware Type identifies the Spitronics hardware platform connected to the software.

Examples may include different ECU or controller platforms.

The Hardware Type helps the software determine which firmware and functions are compatible with the Device.

Firmware Type Locked

Firmware Type Locked identifies whether the Device is restricted to a particular type of firmware.

Typical firmware types may include:

- ECU.
- TCU.
- Electronic Throttle Control.
- Other supported control applications.

Where a Device is restricted, only the permitted firmware type can normally be loaded.

Some special Devices may have no firmware-type restriction.

The older Spitronics system also used Firmware Type Locked to define which application type could be programmed into the hardware.

Firmware Number Locked

Firmware Number Locked identifies whether the Device is restricted to a specific firmware number or firmware family.

This allows the hardware to be allocated to a particular application where required.

Where no restriction is applied, multiple compatible firmware numbers may be available.

Firmware restrictions are normally set as part of the Device configuration and should not be treated as normal tuning settings.

Brand Code

Brand Code identifies the branding configuration assigned to the Device.

Spitronics hardware may be supplied under different approved branding arrangements.

The Brand Code allows the software and Device to identify the applicable product brand.

The older system also used Brand Code to control software compatibility for branded or rebranded Devices.

Firmware

The Firmware section identifies the firmware currently operating inside the ECU.

Typical fields include:

- Firmware Type.
- Firmware Version.
- Firmware Number.

- Configuration or description.

The current Device Information structure uses these fields to identify the loaded firmware.

Firmware Type

Firmware Type identifies the main application performed by the Device.

For an ECU application this will normally indicate:

Engine Control Unit

Other Device types may display different application descriptions.

This is useful when one hardware platform can support more than one control application.

Firmware Version

Firmware Version identifies the revision of the firmware currently loaded into the Device.

The Firmware Version is important when:

- Comparing software behaviour.
- Checking whether a feature is available.
- Diagnosing support problems.
- Comparing Tunes between Devices.
- Checking documentation compatibility.
- Updating firmware.

When requesting technical support, provide the Firmware Version where relevant.

The current Device Information documentation uses Firmware Version to identify the installed firmware revision.

Firmware Number

Firmware Number identifies the specific firmware configuration loaded into the Device. The meaning and available configuration depend on the firmware generation and application.

Different firmware numbers may be used for different:

- Engine types.
- Trigger systems.
- Coil configurations.
- Injector configurations.
- Feature combinations.
- Special applications.

The firmware number should therefore not be treated as the firmware version.

Two Devices may use the same firmware version but different firmware numbers because their applications are different.

Configuration

Where displayed, Configuration provides additional information about the firmware setup.

This may describe the application or important configuration associated with the loaded firmware.

The exact information displayed depends on the firmware.

Firmware Identification

When identifying a firmware for support or documentation purposes, it is normally useful to provide:

- Firmware Type.
- Firmware Number.
- Firmware Version.
- Device Serial Number.

This provides much more useful information than simply stating the ECU model.

Licensing

The Licensing section identifies the activation status of the Device.

Typical fields include:

- Credits.
- Activation Date.
- Status.

These fields are used to confirm whether the firmware and Device have been activated correctly.

Credits

Credits indicate the activation level available on the Device.

The firmware loaded into the Device may require a specific number of credits or activation level.

The available credits must therefore be suitable for the firmware being used.

If the required activation is not available, some firmware or features may not operate.

The current Device Information documentation states that the available credits must match the requirements of the firmware.

Activation Date

Activation Date shows when the Device activation was performed.

This information can be useful for:

- Support.
- Device history.
- Dealer records.
- Upgrade records.

Status

Status indicates the current activation state of the Device.

A correctly activated Device will normally display:

Active

If the Device does not show the expected activation status, verify the firmware and licensing information before continuing with setup or tuning.

Locked Firmware and Loaded Firmware

It is important to understand the difference between the locked firmware information and the firmware currently loaded.

Firmware Type Locked / Firmware Number Locked

These fields define what firmware the Device is permitted to use.

Firmware Type / Firmware Number

These fields identify what firmware is currently loaded.

The two sets of values serve different purposes.

A Device may therefore have a permitted firmware allocation while also displaying the specific firmware currently installed.

Device Information and Technical Support

The Device Information page should be checked early when diagnosing a system.

Before investigating an unusual software or firmware problem, record:

[] Device Serial Number.

☐ Board Number.

☐ Hardware Type.

☐ Firmware Type.

☐ Firmware Number.

☐ Firmware Version.

☐ Credits.

☐ Activation Status.

A screenshot of the complete Device Information page is often one of the quickest ways to provide this information to technical support.

Before Loading Firmware

Before changing or updating firmware, confirm:

☐ Correct Hardware Type.

☐ Correct firmware application.

☐ Correct firmware number.

☐ Firmware is compatible with the board revision.

☐ Required activation or credits are available.

☐ Current Tune has been backed up.

☐ Pin Layout and application requirements are understood.

Firmware changes can alter available Inputs, Features and Device operation.

Do not assume that a different firmware can safely be loaded simply because the software allows the file to be selected.

Device Information Is Not Tune Data

Most information on the Device Information page describes the Device itself rather than the engine Tune.

Changing or loading another Tune does not normally change basic Device identity such as:

- Serial Number.
- Board Number.
- Hardware Type.
- Brand Code.

Firmware and licensing information are managed separately from normal tuning data.

Quick Support Check

When a customer reports a software or ECU problem, first confirm:

Device

- Serial Number.
- Hardware Type.
- Board Number.

Firmware

- Type.
- Number.
- Version.

Licensing

- Credits.
- Status.

Software

- Cosmos software version.

This information normally establishes exactly which hardware, firmware and software combination is being used.