

# TYRE PRESSURE CHECK FOR RENAULT LAGUNA II

Dear Customer,

we've been repeatedly asked for some information about the Tyre Pressure Check System as implemented on some Renault vehicles, and more specifically the Laguna II. We want now to give you some hints on this subject.

## TYRE PRESSURE CHECK: WHAT IS IT?

It is a system used by various car makers to monitor the tyre pressure in real time. It is an important safety feature, whose popularity is continuously growing.

There are different techniques to implement it. Here we take into consideration the method designed by Renault.

In these vehicles the tyres' valves have a transponder (i.e., an electronic circuit capable of receiving and transmitting radio signals), with an internal pressure sensor and a battery (with an expected life of some years). Each valve is identified by a unique code, transmitted by the transponder upon request. In order to extend battery life, the transponder does not always work: it is necessary that the wheel starts to rotate at a certain speed. When not, a specific radio transmitter, the **ST-900**, is required.

# TYRE PRESSURE CHECK FOR RENAULT LAGUNA II

## WHEN IS IT REQUIRED?

- Whenever replacing tyres
- Whenever swapping tyres
- When repairing a tyre
- When replacing winter with summer tyres and viceversa

In all these cases, it is necessary to let the ECU identify the front, rear, left, and right tyres.

## AVAILABLE FUNCTIONS

Main system features, as implemented in FAST, are:

- Fault code reading/erasing (F3)
- Live data (F4)
- Activations (F5)
- Adjustments (F6)

Here are the possible adjustments:

### Nominal tyre pressure storage:

- Nominal tyre pressure
- Front axle nominal pressure at low speed
- Rear axle nominal pressure at low speed
- Front axle nominal pressure at high speed
- Rear axle nominal pressure at high speed

It is possible to enter pressure values between **0** and **3.5 bar**. The ECU uses these values to decide whether to raise an alarm of under- or overpressure for each tyre by turning its alarm lamp on on the dashboard.

# TYRE PRESSURE CHECK FOR RENAULT LAGUNA II

## **Tyre type setup:**

- Winter tyres
- Summer tyres

This setup is used to store the codes of tyres other than those currently mounted on the vehicle. The ECU can store up to 8 values, 4 for winter and 4 for summer tyres. Note that each tyre's code is used to correctly identify the tyre in the live data page.

## **Function activate:**

- Tyre pressure check system coding

With this function it is possible to activate the system and let it be recognized by the dashboard.

## **Tyre coding:**

- Manual coding of a single tyre
- Automatic coding of all 4 tyres.

The first option is used when replacing or inflating/deflating a single tyre. The automatic option is used when replacing or changing the pressure of all 4 tyres at once.

# TYRE PRESSURE CHECK FOR RENAULT LAGUNA II

## HOW TO

Select the TYRE PRESSURE CHECK system.

Once connected to the system, it is necessary to get the ST-900 close to the valve; press the button on the ST-900 and wait for the LED to turn off.

At this point you should be able to read the valve's code on the FAST program. You can confirm or manually enter another code (which is usually supplied with a new valve).

At the end of the procedure you have to choose between winter and summer tyres.

## WHY?

It is extremely important to follow this procedure if the vehicle is equipped with such a system. Not doing so may result in safety features to work improperly, possibly not reporting an alarm. **Also, tyre pressure allows for a safer drive and fuel saving.**

We hope you found this information useful!

*Your After Sales Technical Staff*

**TECH NEWS 024-GB 24-04-06**

# **TYRE PRESSURE CHECK FOR RENAULT LAGUNA II**