QUICK MENU

- Reading the system status.
- Reset the tyres status elaboration
- Reset Odometer
  1. Reset? 2. Back
- Odometer Value
- Settings
  1. Language ►Italiano ►English ►Français (►Deutsch ►Español ►Português)
  2. Volume ►1 ►2 ►3 ►4 ►5
  3. System Control ►Enabled ►Disabled
  4. Threshold alarm level for tyre pressure warning ►Low ►Medium ►High
  5. Warning threshold distance ►Enabled ►Disabled
  6. Speed Limit ►15000 km ►20000 km ►30000 km ►40000 km ►Disabled
  7. Speed Limit ► 30 km/h ► 50 km/h ► 70 km/h ► 90 km/h ►110 km/h ► 130 km/h ► 150 km/h ►Deactivate
- Back
- Exit

CAR MODEL	YEAR	TIRES PRESSURE MONITORING SYSTEM	SPEED LIMIT EXCEEDING ALERT ADVICE	WORN TIRES ALERT ADVICE	PLUG & PLAY HARNESS
HYUNDAI					
i20	**2011>**	O	O	O	**CBL060TPHY11**
i30	**2011>**	O	O	O	**CBL060TPHY11**
i40	**2011>**	O	O	O	**CBL060TPHY11**
iX20	**2011>**	O	O	O	**CBL060TPHY11**
iX35	**2011>**	O	O	O	**CBL060TPHY11**
SANTA FE	**2011>**	O	O	O	**CBL060TPHY11**

TPMS alert cases

- Tyre pressure under the range
- Structure of the tyre compromised
- Vehicle loading level unequal
- The wheels of an axle are overloaded
- Vehicle with snow chains
- Vehicle with spare tyre
- A wheel of the vehicle has been substituted

WARRANTY CONDITIONS
THIS PRODUCT HAS A TWO-YEAR GUARANTEE FOR ANY KIND OF MANUFACTURING DEFECT.
THE FISCAL DOCUMENT SERVES AS THE GUARANTEE VALIDITY.

INSTALLATION MANUAL

SKT 170 HYUNDAI

Electronic Module for HYUNDAI vehicle and driver Safety **rev. 2.0 12**

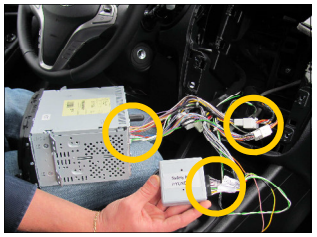
DESCRIPTION

SKT 170 Hyundai is an electronic unit, easy to install, that allows to control the status of the car's tyres pressure, while the vehicle is driving.
In particular, the unit in object has been studied to inform the user concerning all surveys of anomaly about any pressure loss. The innovative characteristic is that the device bases its working mode exclusively by elaborating the data received from the CAN BUS net. This means that the installation doesn't involve the installation of sensors into the tyres.
The unit once detected the anomaly, informs the user about the trouble found, also indicating which is the tyre flat. This information is reproduced by a vocal synthesis available on board of the circuit. The system is supplied with a PLUG & PLAY cable that makes the installation easy and safety.

INSTALLATION

1. Remove the OEM radio, the panel is assured to the dashboard trough grafts, consequently use carefully plastic levers to remove it .

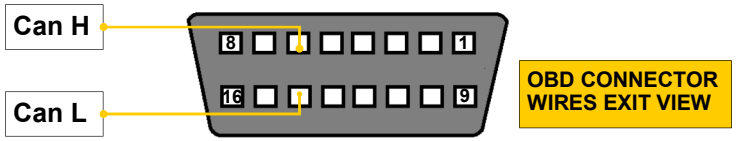
2. Connect the cable supplied with the kit in series with OEM connectors to the vehicle and the radio and connect the multi-way connector to the module



INSTALLATION

3. remove the plastic panel under the dashboard where is located the OBD plug. Remove the OBD plug from its location and keep it from the wires exit view, consequently connect the can bus wires as shown below.

Lay down the can bus wires of the module (Green and White) till the OBD plug, then:
Connect the GREEN wire CAN H of the module to the RED wire of the OBD position 6.
Connect the WHITE wire CAN L of the module to the BLUE wire of the OBD position 14.
We suggest to sold the wires.



Lay down the button till the gloves box passenger side or fix it near the steering wheel as shown below.

Once done the connection and after a quick check restore all the parts .

IN CASE OF DIFFERENT COLOURS OF THE CANBUS WIRES IN THE OBD PLUG PLEASE FOLLOW THE POSITIONS

When the system announces an anomaly, please immediately reduce the speed, don't hit the brakes and don't steer hardly. Stop as soon as possible and control the status of the tyres.
The user is responsible to maintain the tyre pressure in the correct ranges. Control regularly the pressure.
Under certain circumstances such as irregular driving, winter conditions, unpaved roads, it may happen that the module is involved in late or not at all.

- 70 km/h
- 90 km/h
- 110 km/h
- 130 km/h
- 150 km/h
- Disable

Once the vehicle overcomes the range set, the unit will emit a BEEP.

With the item BACK, the user can go back to the principal menu
With the item EXIT, the user can exit to the principal menu; anyway the system exits after about 20 seconds on inactivity.

INSTALLATION AND USE

- Please remove the car radio.
- Please connect the unit by using the available P&P cable.
- Please re– connect the car radio.
- Please control that the kit's LED is switched on GREEN.
- Please do a control about the functions before to re-place the car radio in its lodge.
- Please re-install the car radio.
- Please flat the pneumatics according to the values recommended by the manufacturer
- Please do the **Recalculation of the tyres condition**
- To verify the function of the TPMS, please deflate the pneumatic till 0.5 bar and then drive some kilometres.

Power feeding	+12 VDC
Consumption in work mode	1A
Consumption in sleeping mode	<3mA
Plastic box size	6.70x6.70x2.8 cm
Weight per unit	45 g

WELCOME MESSAGE

With this item of the menu, the user can have the welcome message each time the ignition is turn on.
On default the function is enable but it's possible to disable it.
By selecting this function, the kit will pronounce WELCOME MESSAGE: now it's possible to choose the parameter in a range of two values: Enabled, Disabled

The deactivation of this function doesn't interact with the activation of the system.
Instead it happen the opposite: the welcome message, if activate, updates the status of the system at every ignition.
For example, if the system is active, the vocal synthesis will pronounce:

- ***SYSTEM ENABLED***

If the system is not active, the vocal synthesis will pronounce:

- ***SYSTEM DISABLED***

WARNING THRESHOLD DISTANCE

With this function the user can set a value of kilometres and have a sure information about the kilometres covered by the tyres in use.
By selecting this function, the kit will pronounce **WARNING THRESHOLD DISTANCE** :
now it's possible to choose the parameter in a range of some values:

- **15000 km**
- **20000 km**
- **30000 km**
- **40000 km**
- **Disabled**

Once reached the number of kilometres set, the module will keep in memory the information and at the next ignition of the car, the system will pronounce the message:
Warning threshold distance

SPEED LIMIT

With this function, the user can set a value in km/h: the system will do a notification every time the vehicle overcomes the value preset.
This function preserve the user to all risks about the high speed and it helps to avoid some sanctions.
By selecting this function, the kit will pronounce SPEED LIMIT;
ITt's possible to choose the parameters in a range of values:

- 30 km/h
- 50 km/h

Calibration

Once the installation is done, it's is necessary to proceed with optimal tyres inflation.
The standard range is 2.2 bars for the front-wheels and 2.0 bars for the rear-wheels.
Anyway, Paser recommend to follow the parameters suggested by the manufacturer of the tyres.
Once the pressuring verification, it's necessary to calculate the status of the tyres; to do this operation is necessary to consult the menu of the system. (see the paragraph called RECALCULATION OF THE TYRES CONDITION).

Functions Management

The module in object is able to monitor tire pressure.
The unit has several features such as, for example, querying system status, parameter setting, language selection etc.
All operations are available through speech menu.
By following a simple procedure with the steering wheel commands, check and set the desired functions available in the menu as described in the following pages.

Enter the Menu

To enter the menu please use the button supplied with the kit. Switch on the ignition and the module will announce the welcome message.
Press 3 times the button to enter the menu.

To scroll the menu voices press one time the button.

To confirm the choice or enter a sub menu press the button for 3 seconds.

The menu is ordered in a circular selection, for example considering the main menu, the last voice will be followed by the first voice.
The voices available are:

1. **Reading the system status.**
2. **Reset the tyres status elaboration.**
3. **Reset odometer**
4. **Odometer value**
5. **Settings**
6. **Exit**

Reading the system status

By checking this item, the unit says immediately last detected status of the tyres pressure, for example if everything is right, the speech synthesis module says:
THE TYRES ESTIMATED PRESSURE WAS NORMAL.

Recalculation of the tyres condition

By checking this function, the module does the calibration of the system; that means it does a first analysis about the pressure condition of the pneumatics and then it sets the parameters relieved during the test phase; Anyway, the system is able to survey and to notify pressure anomalies already during the phase of calibration.
The user has to do the calibration only after the control of the correct tyres pressure; so, once checking the function it's necessary to drive about 5 km.
done the calibration, if all is right, the unit will say:
THE TYRES ESTIMATED PRESSURE WAS NORMAL.

RESET ODOMETER

The objective of the SKT 170 is also the possibility to increase the car's safety condition and the driver's one. The first function is to control the kilometres covered with the same tyres.
This function is resettable by the user in every moment just selecting to this voice of the menu.
To reset the information:
Enter into the menu and select the voice **RESET ODOMETER**
The option will be:

- Reset?
- Back

By selecting one of these options, the user can reset the function or go back to main menu.
By resetting the memory of the function **RESET ODOMETER**, the function stays active only the counter is reset.

ODOMETER VALUE

With this function the user can interrogate in every moment the number of kilometres covered by the car with the same tyres from moment in which the function has been activated.
By interrogating this item, the unit will pronounce the number of the kilometres covered;
for example, if the user has covered 1500 kilometres, the unit will say:
ODOMETER VALUE: ONE, FIVE, ZERO, ZERO.

SETTINGS

By selecting this function it's possible to set some parameters about some functions; the items of the sub-menu **SETTINGS** are:

- Language
- Volume
- System control
- Threshold alarm level for tyre pressure warning.
- Welcome message
- Warning threshold distance
- Speed limit
- Back

LANGUAGE

By checking this option the user can set the language.
SKT 170 is available in 6 language, the unit keeps in memory 4 languages: 3 of these languages are set on default on every kit version.
The languages set by default are:

- ITALIAN
- ENGLISH
- FRENCH

The fourth language can be:

- GERMAN
- SPANISH
- PORTOGUESE

During the la selection of the language, the selection will be pronounced in the language to choose; if the user will course the "Italian", vocal synthesis will say ITALIANO; if the user will select the "English", the vocal synthesis will say ENGLISH.

VOLUME

SKT 170 is an high-technologic kit that manages all communications with a professional vocal synthesis. It's possible to regulate the volume reproduction.
By selection this function, the kit will pronounce VOLUME;
now it's possible to choose the parameter in a range of some values: 1, 2, 3, 4 and 5.
The recommended VOLUME level is 2.

SYSTEM CONTROL

The unit can be disabled or enabled directly by the user. The kit is active by default; that means the pneumatic control is enabled and so all eventual emergency messages will be pronounced in case of anomaly. Anyway, by selecting this option of the menu, it's possible to disabled the control.
By selecting this function, the kit will pronounce SYSTEM CONTROL, now it's possible to choose the parameter in a range of two values: Enabled, Disabled.

THRESHOLD ALARM LEVEL FOR TYRE PRESSURE WARNING

This item of the menu sets the sensitivity level of intervention in case of tyre anomaly.

The levels available are:

- Low (discharge of 0.5 bar)
- Normal (discharge of 0.4 bar DEFAULT SETTING)
- HIGH (discharge of 0.3 bar)