

TPMS-TYRE PRESSURE MONITORING SYSTEM

- Brief notes on TPMS
- What is TPMS = Tyre Pressure Monitoring System, which is the control system of the integrated tire pressure.
- It aims: increased safety, lower tire consumption, lower fuel consumption, lower emissions.
- Statement: starting from 01.11.2012 all new models of cars and campers must be equipped with a TPMS system, and from 1/11/2014, all registered passenger cars and campers must be equipped with a TPMS system.
- What types of TPMS exist: there is a DIRECT system, through sensors mounted behind the tire valve, pressure and temperature detect and constantly transmit information and INDIRECT system unit, through the tire speed determined by the EBS / ABS system, transmits information to the control unit that warns the driver via warning on the display.
- Advantages / disadvantages: Direct system is more accurate, it also works at a standstill and even the spare tire engine. The system Direct presents higher costs for maintenance, repair shops requires a greater set of tools and attention for maintenance.
- TPMS-Direct.
- Sensors: The Meccanocar sensors are universal and programmable.

Sensors Schrader EZ-sensor



- Are the most used in valve sensors.
- European frequency 433Mhz.
- Reprogrammable and universal.
- Minimum battery life 5 years.

| Code | Description | Characteristics |
|------------|--------------------------------|---|
| 3970015000 | Ez-Sensor Snap-in | Sensore europeo con valvola in gomma |
| 3970015020 | Valvola per Ez-Sensor Clamp-in | Valvola completa di ricambio e vite |
| 3970015040 | Valvola per Ez-Sensor Snap-in | Valvola completa di ricambio e vite per Ez-Sensor snap-in |

Sensors alligator sens.it



- Valve sensors.
- European frequency 433Mhz.
- Reprogrammable and universal.
- Minimum battery life 5 years.

| Code | Description | Characteristics |
|------------|---|---|
| 3970015100 | Sens.it Alligator sensore per valvole alluminio | Sensore europeo per valvole in alluminio |
| 3970015110 | Valvola Sens.it Alligator-Clamp-in alluminio | Valvola completa in alluminio per Sens.it Alligator |
| 3970015120 | Sens.it Alligator sensore per valvole in gomma | Sensore europeo per valvole in gomma |
| 3970015130 | Valvola Sens.it Alligator-Snap-in gomma | Valvola completa in gomma per Sens.it Alligator |

Sensors intellisens-huf/beru



- Valve sensors.
- European frequency 433Mhz.
- Programmable and universal.
- Minimum battery life 5 years.

| Code | Description | Characteristics |
|------------|---|--|
| 3970015200 | IntelliSens Huf/Beru Sensore universale UVS02 | Sensore completo di valvola in alluminio modello UVS02 |
| 3970015210 | Intellisens Huf/Beru sensore universale UVS4010 | Sensore completo di valvola in alluminio |

Sensors vdo/continental redi-sensor



- Valveless sensors, non-programmable.
- European frequency 433Mhz.
- They are glued inside the tire and communicate directly with the control unit.
- Automatically interface.
- Minimum battery life 7 years.

| Code | Description | Characteristics |
|------------|--------------------|---|
| 3970015300 | SENSOR 1 | Per Bmw-Mini-Renault-Nissan-Opel-Chevrolet |
| 3970015310 | SENSOR 2 | Per Volvo-Land Rover-Jaguar-Hyundai-Kia-Suzuki-Mitsubishi |
| 3970015320 | SENSOR 3 | Per Toyota-Ford-Fiat |
| 3970015330 | SENSOR TOOLS | Utensile per montare il sensore nella slot in gomma quando si fa un cambio gomma. |
| 3970015340 | SLOT IN GOMMA | Slot in gomma senza sensore |
| 3970015350 | COLLA SENSORE/SLOT | 9,6 gr di colla da mettere all'interno della slot |

Sensors cub unisensor



- Valve sensors.
- European frequency 433Mhz.
- Programmable and universal.
- Minimum battery life 5 years.
- They need their own CPU to be programmed.

| Code | Description | Characteristics |
|------------|------------------------------------|--------------------------------------|
| 3970015400 | CUB 01-Sensore con valvola Snap-in | Sensore europeo con valvola in gomma |

Cpu BARTEC tech 500 and Interface for cub sensors



- Micro specific diagnosis computer for all TPMS systems, SCHRADER, HUF, ALLIGATOR, CUB, is the market leader for its incomparable coverage vehicles.
- Performs control of the vehicle to detect any faults, the program copying or creating new sensors using the main universal sensors.
- **With the appropriate interface, it can also program the Cub sensors.**
- TPMS reading and programming tool, all in one. Easy to use, large display with a clear Menu Updates simple software to download (for free the first year).
- solid design with a robust OBD connector and cable to use the workshop Communication PC via Bluetooth, WLAN or USB keyboard resistant to dust, water, oil and grease Long life of the internal battery, even loadable via USB.
- Decoding the signals coming from the sensors (OF, tire pressure, temperature and battery).
- The Kit includes Tech 500: Device Tech 500 User's Guide CD & OBD II cable USB cable USB charger Bluetooth Stick PC communication via Wi-Fi and Bluetooth wireless Reload (Standard Qi).
- The USB flash drive provides an easy connection thanks to Tech500 software. TECH 500 also interfaces with the TPMS desktop free application that offers a revolutionary technology to manage together with your complete, adjustable and storable reporting tool, management of multiple vehicles, look for TPMS information for a specific vehicle in quick manner.

| Code | Description | Characteristics |
|------------|-----------------------------|---------------------------------|
| 3970015520 | Bartech Tech 500 | CPU |
| 3970015530 | Interfaccia Bartech per Cub | Kit Interfaccia per sensori Cub |

SERVICE KITS MECCANOCAR-TPMS



| COLORE | COD.MECCANOCAR | cod. schrader & tpmseuroshop | APPLICAZIONE | Q.TA' |
|--------|----------------|------------------------------|---|-------|
| 1 | 3970015620 | 65655-KD / 5002 | Renault | 8 |
| 2 | 3970015640 | 65657-KD / 5004 | Lotus, Nissan, Volvo, Opel, Chevrolet, Peugeot | 8 |
| 3 | 3970015660 | 65659-KD / 5006 | Ford, Volvo, Mazda, Jaguar, Citroen, Fiat, Lancia, Land Rover | 8 |
| 4 | 3970015720 | 65962-KD / 5017 | Mercedes-Benz, Smart | 8 |
| 5 | 3970015730 | 65963-KU / 5018 | Renault | 8 |
| 6 | 3970015840 | 66070-KU / 5020 | Volvo, Ford, Jaguar, Land Rover | 8 |
| 7 | 3970015770 | 66071-KU / 5021 | Hyundai, Kia | 8 |
| 8 | 3970015780 | 66072-KU / 5022 | Mazda | 8 |
| 9 | 3970015790 | 65731-67 / 5009 | Audi, VW, BMW, Porsche | 8 |
| 10 | 3970015810 | 65732-67 / 5010 | Audi, VW, BMW, Porsche | 8 |
| 11 | 3970015820 | 65733-67 / 5011 | Audi, VW, BMW, Porsche | 8 |
| 12 | 3970015800 | 65734-67 / 5012 | Audi, VW, BMW, Porsche | 8 |
| 13 | 3970015760 | 66118-68 / 5026 | Peugeot, Opel, Hyundai, Citroen, Chevrolet | 8 |
| 14 | 3970015700 | 65958-KU / 5015 | Mercedes | 8 |
| 15 | 3970015850 | - | Tutti i veicoli | 25 |
| 16 | 3970015860 | - | Tutti i veicoli | 25 |

- **SERVICE KITS MECCANOCAR-TPMS:** For maintenance at each tire change of the TPMS sensors OE components.
- In case there is the presence of TPMS, some components of the valves must be replaced. For each replacement tire, the TPMS Service Kit should be used to replace these components that are subject to wear such as the nut, the gasket, the internal mechanism and the cover. When changing the tires on a car without TPMS is normal replace valves; Therefore, even in the presence of TPMS sensors, you have to ensure the proper maintenance. This action, prevents breakage and avoids major damage and very expensive which could also result in the replacement of the entire sensor.
- **FEATURES AND BENEFITS OF THE RANGE MECCANOCAR-TPMS (briefcase assorted kit):**
 - The Service Kits covering more than 88% of all new European cars circulating in Italy;
 - It is made up of OE quality parts for guaranteed quality jobs;
 - All metal components are subjected to anti-corrosion treatment;
 - high quality seals ensure maximum reliability even in extreme conditions;
 - It is the ideal solution to optimize warehouse and to be always ready to handle any car you are facing.

| Code | Desc. | Contenuto/Compatibile |
|------------|-----------------|-----------------------------------|
| 3970015600 | 112-Service kit | 112 articoli assortiti |
| 3970015610 | 33B | Original Schrader 65654 |
| 3970015620 | 33C | Original Schrader 65655 |
| 3970015630 | 33D | Original Schrader 65656 |
| 3970015640 | 33E | Original Schrader 65657 |
| 3970015650 | 33F | Original Schrader 65658 |
| 3970015660 | 33G | Original Schrader 65659 |
| 3970015670 | 33H | Original Schrader 65660 |
| 3970015680 | 33H1 | Original Schrader 43148-67 |
| 3970015690 | 33J | Original Schrader 65768 |
| 3970015700 | 33K | Original Schrader 65958 |
| 3970015710 | 33L | Original Schrader 65961 |
| 3970015720 | 33M | Original Schrader 65962 |
| 3970015730 | 33N | Original Schrader 65963 |
| 3970015740 | 33N1 | Original Schrader 43611-68 |
| 3970015750 | 33P | Original Schrader 65964 |
| 3970015760 | 33Q | Original Schrader 65567 |
| 3970015770 | 33R | Original Schrader 66071-KU |
| 3970015780 | 33S | Original Schrader 66072-KU |
| 3970015790 | 33T | Original Schrader 65731-67/RDV001 |
| 3970015800 | 33U | Original Schrader 65734-67/RDV004 |
| 3970015810 | 33V | Original Schrader 65732-67/RDV002 |
| 3970015820 | 33W | Original Schrader 65733-67/RDV003 |
| 3970015830 | 33W1 | Original Schrader 65086-67 |
| 3970015840 | 33X | Original Schrader 66070-KU |
| 3970015850 | 33Y | KIT Interno valvola 25 pezzi |
| 3970015860 | 33Z | Tappino valvola grigio 25 pezzi. |

Tools kit for TPMS



- Wera tools kit for the installation of the TPMS tire pressure monitoring systems.
- Required to install or replace the TPMS sensors and do the maintenance on TPMS valves.

Contenuto Kit:

| Codice | Contenuto |
|------------|---|
| 3970016000 | 1 cacciavite a pistola dinamometrico-1 cacciavite porta bits dinamometrico - 1 cacciavite torx 10-1 punzone per valvole-1 adattore 1/4-1 bitz torx T20x50-1 bitz torx T15x50- 1 bussola esagonale da 1/4 da 12 e 1 bussola esagonale da 1/4 da 11 |
| 3970016010 | Per inserti esagonali da 1/4, valore preimpostato Nm 3,3, precisione |
| 3970016020 | Cacciavite a pistola dinamometrico Nm 4 a Nm 8,8 per inserti esagono da 1/4 |
| 4200068502 | Cacciavite Torx 10 x 65 |
| 4430056110 | Adattatore da 1/4 es+1/4 quadro x 25 |
| 4200000150 | Bussola 11 x 50 esagonale 1/4 |
| 4200000152 | Bussola 12 x 50 esagonale 1/4 |
| 4430046786 | Bitz Torx T15 x 50 |
| 4430046788 | Bitz Torx T20 x 50 |

| Code | Desc. | Photo |
|------------|-------------------|-------|
| 3970016000 | 744/61/9-Kit TPMS | - |
| 3970016010 | 7461 | 1 |
| 3970016020 | 7443 | 2 |
| 4200068502 | 68502-TX 10 | 3 |
| 4430056110 | 1622/A | 4 |
| 4200000150 | 414-11L | 5 |
| 4200000152 | 414-12L | 6 |
| 4430046786 | 751 TX T 15X50 | 7 |
| 4430046788 | 751 TX T20X50 | 8 |