



SPARE

PARTS

AUTOMOBILE
SPARE PARTS
SINCE 1946

MORE THAN 4000 GOOD REASONS TO CHOOSE US

Facet catalog includes references for all European, Japanese, and Korean vehicles.



OUR RANGE COVERS MORE THAN 90% OF EUROPEAN ACTIVE CAR PARK

Our product portfolio:

SENSORS, +880 REFERENCES

ABSOLUTE AIR PRESSURE SENSORS (MAP)

MAP (Manifold Absolute Pressure) sensors detect the pressure of the air sucked in by the intake manifold of the engine converting it into an electrical signal and sending it to the Engine Control Unit, that indirectly calculate the amount of air sucked in, thus determining the correct fuel quantity.



MAF SENSORS

Mass air flow sensors (MAF), installed in the intake manifold of the engine located after the air filter, measure the amount of air sucked in by the engine, thereby converting it into a proportional tension which is sent to the engine control unit in order to determine the correct air/fuel ratio.



WHEEL SPEED SENSORS (WSS/ABS)

Wheel speed sensors (WSS) are used to detect the speed of the vehicle's wheels. This information is transmitted to the Electronic Control Unit (ECU) which forwards it to various systems:

- ABS (Antilock Braking System)
- ESC (Electronic Stability Control)
- TCS (Traction Control System)
- GPS (navigation)
- Hill-Hold
- Hill-Descent Control
- Cruise Control



REVOLUTION & TIMING

Used in motor vehicles to detect one or more of the following parameters:

- Rotation speed of the motor shaft
- Top dead centre, by sensing crankshaft position
- Powering sequence or phase through detection of the camshaft position
- Engine or transmission shaft rotation speed and direction.



KNOCK SENSORS

Knock sensors, installed on the engine block, detect if the explosion of the mixture inside the cylinders occurs in an incorrect manner (detonation or pinging) thus transmitting a signal to the electronic control unit of the engine.



THROTTLE POSITION SENSOR

Throttle position sensors are installed on the throttle body of cars; they measure the opening angle of the throttle valve, which is controlled by the accelerator pedal, and adjust the amount of air drawn in by the engine.



AIR TEMPERATURE SENSORS

Air temperature transmitters measure the temperature of the air drawn in by the intake manifold of the engine by means of a thermistor. The signal indicating the temperature is sent to the engine control unit to indirectly calculate the amount of air sucked in, in order to determine the correct fuel quantity.



IGNITION SYSTEM, + 1000 REFERENCES

COILS/ MODULES

The ignition coils provide high voltage pulses to generate a spark (arc) between the electrodes of the spark plugs on the internal combustion engine that is of sufficient intensity and duration to start the internal combustion of the air-fuel mixture successfully.



CONDENSERS

Used in traditional ignition system, they help to absorb the sparks that are generated on the contact surface, avoiding excessive wear.



DISTRIBUTOR CAPS

The cap receives the high-voltage current from the coils and distributes it, via the rotor, to the spark plugs. It is positioned at the top of the distributor and contains the rotor.



IGNITION CABLES

The ignition cable sets transfer the high-voltage current, transformed by the coil(s), to the spark plugs whose sparks cause the air/fuel mixture to explode inside the cylinders of the engine. They are only used for petrol driven vehicles.



IGNITION MODULES

The electronic ignition module supplies power to the primary winding of the coil, while controlling the duration and intensity of the current so that it reaches the predetermined value. It makes it possible to have sparks of a constant energy in the spark plugs.



CONTACTS

The contacts open a circuit that transmits the current to the primary winding of the coil causing the charging of the capacitor and a voltage swing, which transmits the spark to the spark plugs by means of a high voltage pulse.



PICK-UPS

They represent the evolution of rotors, so they are also called "electronic distributors". Used instead of contacts.



ROTORS

Also known as distributors or "brush distributor" they have the function of distributing the spark to the spark plugs on the cylinders, through the rotation of the distributor shaft.



THERMAL MANAGEMENT, + 1200 REFERNECES

THERMOSTATS & GASKETS

Thermostats regulate engine temperatures and keep them constant by controlling the flow of the coolant through the radiator, ensuring a balance between the heat introduced into the system and the one released externally:

- Simple and bypass valve thermostats
- Thermostats with plastic or aluminum bodies
- Map-controlled thermostats



COOLANT/OIL/FUEL TEMPERATURE SENDERS



These latest-generation devices, installed in the engine cooling system pipes, measure the temperature of the coolant through a thermistor. The temperature values are then sent to the engine control unit, providing useful information for fuel injection management.

THERMO CONTACTS



They are installed on the radiator or in the cooling system pipes, to turn on warning light and/or radiator fans here are two types of thermo switches for electric fans:

- For single-speed -
- For dual-speed or double fan

EXHAUST MANAGEMENT, + 550 REFERENCES

OXYGEN SENSORS



The oxygen sensors are used to detect the presence of oxygen in the exhaust manifold of endothermic engines, thus enabling real-time correction of the stoichiometric ratio, allowing the catalytic converters to work properly and eliminating harmful exhaust gases. Facet Oxygen sensors range includes thimble and planar switching types.

DIFFERENTIAL AIR PRESSURE SENSORS (DPS)



DPS sensors (Differential Pressure) are used to monitor the efficiency of the DPF (Diesel Particulate Filter), the device that reduces emissions of particulate matter, by detecting when it is clogged. The DPS detects a variation of pressure between the inlet and outlet of the DPF, so that the Engine Control Unit can command the start of the cycle of regeneration, in other words the cleaning, of the DPF.

EGR VALVES

The Exhaust Gas Recirculation valve recirculates a portion of the exhaust gas in the combustion process fuel/air mixture, helping noxious emissions decrease and engine efficiency.



SWITCHES, + 480 REFERENCES

OIL PRESSURE SWITCHES



These switches, activated by the pressure of the lubricating oil used in engines. They are used to turn on warning light when the pressure of the lubrication circuit is insufficient compared with the prescribed value.

REVERSING LIGHT SWITCHES



These switches are used to turn on the reverse lights to illuminate the back area during maneuvering.

BRAKE / CLUTCH PEDAL SWITCHES



Mounted on the brake pedal or clutch they control the powering on of the rear lights warning of braking.



FACET AT A GLANCE

An Italian company with 70+ years of experience.

Since 1946 we design, manufacture and distribute our products, which represent one of the most complete ranges on automotive spare parts market.

We serve all sectors of the Automotive Industry (independent spare parts distributors, car makers and original equipment manufacturers) in Europe and worldwide. Our presence on the international markets is enhanced year by year. Exports represent more than 80% of our turnover.

ANNUAL SALES:

EUROPE 91%

REST OF THE WORLD 9%

AN EXCELLENT DELIVERY SERVICE

+ 99% on time/complete shipments

+110 countries



Quality is an important value strictly observed in each step of our components manufacturing process. Facet products, distributed with Facet, EPS, and KW brands, are designed, manufactured and tested internally, to ensure our customers an equal and often better quality than original parts. Facet products excellence is obtained choosing the best raw materials and using high performance production processes.



IATF 16949

Our continuous range expansion is sustained by heavy R&D investments (12% of Turnover).

DESIGN, MANUFACTURING & TESTING 100% MADE IN ITALY



Facet Catalogs offer the most accurate information on technical specs, vehicle applications and cross reference lists.

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*Automotive spare parts
manufacturer since 1946*



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