



english  
catalogue

# 0039

AUTOMOTIVE

## OXYHYDROGEN GENERATORS

### DECARBONIZERS





0039AUTOMOTIVE  
MADE IN ITALY

3 SOULS IN 1



### MOTOR VALLEY? NO, CHIANINA VALLEY.

GEA S.R.L is located among the rolling hills of the Val di Chiana in the area of Arezzo, at the foot of one of the most important and fascinating historic Renaissance cities in the centre of Italy, Cortona. GEA S.R.L., standing for Garage Equipment Assistance, has been operating for over 20 years in the sector of garage equipment and services, and collects the legacy of skills and know-how from other previous important brands in the sector.

#### CORTONA (AR)

*One of the most important towns since Etruscan times, Cortona has spanned centuries watching over the Val di Chiana in Tuscany and it has always been a must, for people and goods, in the connections between Florence and Rome, between northern and southern Europe.*



#### GUARANTEED BY US

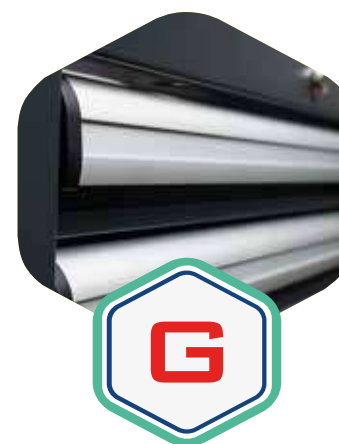
The whole 0039automotive range by GEA is **designed, manufactured and assembled in Italy** to always ensure the highest quality and a solid construction.

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0039AUTOMOTIVE  
MADE IN TUSCANY



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AUTOMOTIVE



#### GARAGE

**Garage** is the business unit identifying the workplace.

Through the **Steelwork** brand, it designs and manufactures industrial technical furniture multiple solution, including components and supports for oil dispensing and vehicle exhaust gas extraction.

We equip your workplace, keeping it tidy and free from exhaust fumes. We want your garage to be exactly like you have always wanted.



#### EQUIPMENT

**Equipment** is the range of products and equipment specific for vehicle maintenance and care identified with the brand **0039automotive**.

This range includes vehicle inspection equipment (brake testers, power test, control cameras), devices for exhaust gas analysis (smoke meters and gas analysers MCTC-Net2), automatic gearbox maintenance units, **oxyhydrogen generators for engines decarbonization** and other complementary products and services to give our customers as many tools as possible for vehicles maintenance and care.



#### ASSISTANCE

**Assistance**, we always try to give you assistance for all your needs, to be present in every phase of the projects, to always meet your needs.

We are not infallible nor do we produce break-proof equipment, but we try to keep an eye on after-sales thanks to our technicians and engineers who are ready not to let unsolved problems prevent our customers' work.

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AUTOMOTIVE





## SERIES 700

RESPECT THE  
ENVIRONMENT AND  
YOUR VEHICLE

### TAKE CARE OF YOUR VEHICLE

The 700 series branded 0039automotive is composed of units for the **maintenance and care of endothermic engines**, powered by any fuel (petrol, diesel, GPL, methane), so called “oxyhydrogen generators”, studied to decarbonise combustion and exhaust systems of vehicles.

DECARBONIZZARE  
REDUCE CARBON EMISSIONS  
INQUINARE MENO

### THE RELIABILITY OF MADE IN ITALY

The oxyhydrogen generators by 0039automotive are **studied, manufactured and assembled in Italy** to always guarantee the highest quality, a solid construction and the best functioning, together with multiple safety tools.

The decarbonization with hydrogen generator guarantees a **high economic return** to operators, thanks to the very low cost of the raw material and because **no chemical additive** is required, only demineralized water and a reagent, in this case potassium hydroxide, are required.



### WHY DOES AN ENGINE GET DIRTY?

An engine can lose efficiency, over time, due to normal consumption and deterioration of its components.

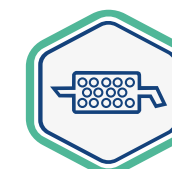
But there is another fundamental factor affecting engine's performance and it is the carbon deposits accumulation **caused by incomplete combustion**, we are talking about HC or unburned hydrocarbons.

The carbon deposits gradually accumulate throughout the combustion circuit and clog it, involving injectors, spark plugs, valves, pistons, turbines, catalysts, the egr valve and the Particulate Filter, causing at the same time a loss of power, an **increase in consumption** and an **increase in polluting gases** released into the atmosphere.

The treatment with oxyhydrogen, produced by the 700 series generators, acts directly on these components leading to the almost total elimination of carbon residues.



VALVES



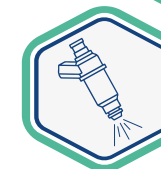
FAP FILTER



PISTONS



EGR VALVE



INJECTORS



TURBINES



SPARK PLUGS

711  
OXYHYDROGEN



RESPECT THE  
ENVIRONMENT AND  
YOUR VEHICLE

WHY SHOULD I DECARBONIZE MY VEHICLE

A clean and in good condition engine, guarantees long mileage and leads to generate **less pollution** as the engine performance is optimal and consequently **fuel consumption** also decreases.

After the decarbonisation with the oxyhydrogen treatment, the "black fumes" coming out of the exhaust will be eliminated, both a **reduction in noise** and an improvement in engine response times will be noted, together with a **recovery in performance**.



WHEN SHOULD THE TREATMENT WITH OXYHYDROGEN BE CARRIED OUT?

Under normal conditions and with no obvious vehicle problems (black smoke, reduced engine power, etc.) the advice is to carry out the combustion system cleaning cycle **during vehicle maintenance**, for example on the occasion of car servicing (whether mileage or working hours).

In the mechanical field it is known that in modern vehicles the problems of "dirt" and clogging inside the engines are among the main causes of malfunction.



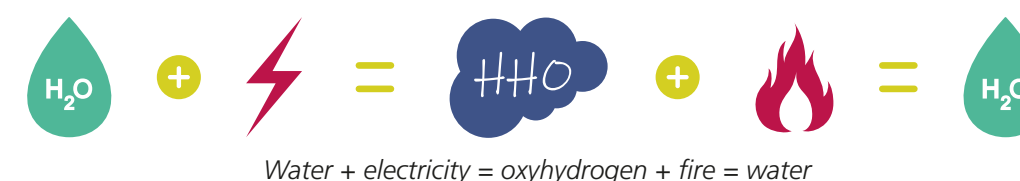
WHAT IS OXYHYDROGEN?

Oxyhydrogen is an **odorless and colorless** gas obtained from the mixture of hydrogen and oxygen. Once injected into the combustion chamber of an engine, because of its high calorific power, it creates a thermochemical decomposition process which disintegrates, burns and eliminates carbon deposits (decarbonization), with benefits also to the components of the exhaust system.

HOW DOES THE GENERATOR WORK?

The raw material for the production of oxyhydrogen is water, demineralised in this case. Thanks to a series of components that manage the process, including the **generator group, entirely made of stainless steel**, and managed by electronic boards, by combining electricity with water and an electrolyte a chemical transformation, called electrolysis, takes place splitting the molecules of the liquid and giving as a result the gases of Hydrogen (H<sub>2</sub>) and Oxygen (O).

These **gases are filtered and dehumidified**, before being introduced into the combustion chamber, in order not to cause any damage to the engine and making the decarbonization with the units series 700 optimal.



POWER IS NOTHING WITHOUT DURATION

To obtain the best result from the decarbonisation treatment, the fundamental data to take into consideration are the right gas dosage and the duration of the treatment, which can vary according to the size of the engine from a minimum of 20 minutes (motorcycles) to a maximum of 180 minutes (heavy vehicles).

A mid-size car requires a cleaning cycle with oxyhydrogen lasting about 70 minutes.





### INDEPENDENT GENERATOR POWERED AT 12 VOLTS

The oxyhydrogen generator art. 710 is a station for the maintenance and care of endothermic engines, powered by any fuel (petrol, diesel, LPG, methane), studied to **decarbonise the combustion and exhaust systems of small and medium-sized engines** (motorbikes, gardening machines, industrial generators, cars, RV and light commercial vehicles).

It is possible to use it even where there is no traditional 220V electric power supply, in fact tanks to clamps and cables, supplied with the unit, **it is powered at 12 Volts directly from the battery of the vehicle.**

The procedure drives the operator step by step through the dedicated program displayed on the **7" touchscreen display**, where the user can find all the information necessary for the treatment or setting of the machine. A built-in thermal printer allows to print the report at the end of the operations.



- 7" touchscreen display
- Recommended processing database
- Thermal printer
- Stainless steel generator

### SAFETY DEVICES

- Vehicle running sensor
- Integrated bubbler
- Pressure sensor
- Emergency push button
- Polarity inversion

### mod. 710

Engine  
Diesel until 3.200 cc  
Petrol until 4.500 cc



### On-board software includes:

- Guided procedure
- Engine capacity setting for automatic cycle suggested duration
- Decarbonization duration setting for manual cycle
- Treatment cycle status and battery status display
- Acoustic alarm



### EQUIPMENT

Starter kit with electrolyte (potassium hydroxide) and demineralised water for the production of oxyhydrogen.

### TECHNICAL DATA

Power supply	12V
Control panel	7" touchscreen display
Gas flow	180 L/h
Internal tank	3 L
Water consumption	100 ml/h
Power consumption	25 Ah
Dimensions mm	540L x 430W x 1010H
Weight	30 Kg (dry weight)



compartment for cables  
and battery clamps





### THE PERFECT SOLUTION FOR CAR, MOTORCYCLE, COMMERCIAL VEHICLE WORKSHOP

The oxyhydrogen generator mod. 710.220 is a station for the maintenance and care of endothermic engines, powered by any fuel (petrol, diesel, LPG, methane), studied to decarbonise the combustion and exhaust systems of small and medium-sized engines (motorbikes, gardening machines, industrial generators, cars, RV and light commercial vehicles).

The procedure drives the operator step by step through the dedicated program displayed on the 7" touchscreen display, where the user can find all the information necessary for the treatment or setting of the machine. A built-in thermal printer allows to print the report at the end of the operations.



- 7" touchscreen display
- Recommended processing database
- Thermal printer
- Stainless steel generator

### SAFETY DEVICES

- Magnetic vehicle running sensor
- Integrated bubbler
- Pressure sensor
- Emergency push button

mod. 710.220

Engine  
Diesel until 3.200 cc  
Petrol until 4.500 cc



### On-board software includes:

- Guided procedure
- Engine capacity setting for automatic cycle suggested duration
- Decarbonization duration setting for manual cycle
- Treatment cycle status
- Acoustic alarm

### TECHNICAL DATA

Power supply	220V
Control panel	7" touchscreen display
Gas flow	180 L/h
Internal tank	3 L
Water consumption	100 ml/h
Power consumption	350 W
Dimensions mm	540L x 430W x 1010H
Weight	40 Kg(dry weight)



### EQUIPMENT

Starterkit with electrolyte (potassium hydroxide) and demineralised water for the production of oxyhydrogen.



### THE PERFECT SOLUTION FOR CAR, MOTORCYCLE, COMMERCIAL VEHICLE WORKSHOP

The oxyhydrogen generator art. 710T.220 is a station for the maintenance and care of endothermic engines, powered by any fuel (petrol, diesel, LPG, methane), studied to decarbonise the combustion and exhaust systems of small and medium-sized engines (motorbikes, gardening machines, industrial generators, cars, RV and light commercial vehicles).

The guided procedure drives the operator step by step through a software on **removable 10" tablet in Window environment**, where the user can find all the information necessary for the treatment or the setting of the machine. A wire-less card allows to print an A4 format report or, for a "green" choice, **show the results with a QRcode and share them with the customer.**



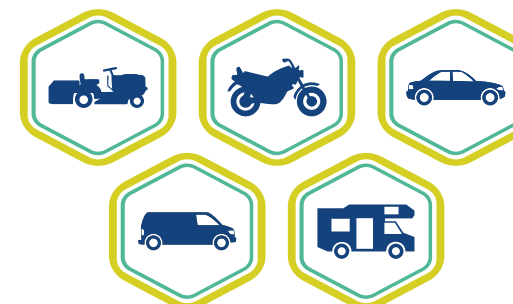
- Removable tablet 10"
- Recommended processing database
- Digital job report with QR code
- A4 printing via wi-fi
- Stainless steel generator

### SAFETY DEVICES

- Magnetic vehicle running sensor
- Integrated bubbler
- Pressure sensor
- Emergency push button

### mod. 710T.220

Engine  
Diesel until 3.200 cc  
Petrol until 4.500 cc



### On-board software includes:

- Acoustic alarm
- Guided procedure
- Treatment cycle status
- Decarbonization duration setting for manual cycle
- Engine capacity setting for automatic cycle suggested duration



### EQUIPMENT

Starterkit with electrolyte (potassium hydroxide) and demineralised water for the production of oxyhydrogen.

### TECHNICAL DATA

Power supply	220V
Control panel	Removable tablet 10"
Gas flow	180 L/h
Internal tank	3 L
Water consumption	100 ml/h
Power consumption	350 W
Dimensions mm	540L x 430W x 1010H
Weight	40 Kg (dry weight)



Decarbonisation can only be started with the engine running; by placing the magnetic vibration sensor in contact with a metal part of the engine compartment, it will check the vibrations by authorizing the software to proceed.



#### UP TO 16.000 CUBIC CENTIMETERS

The oxyhydrogen generator art. 711 is a station for the maintenance and care of endothermic engines, powered by any fuel (petrol, diesel, LPG, methane), studied to **decarbonise the combustion and exhaust systems of small, medium and big engines** (motorbikes, industrial generators, cars, RV, light commercial vehicles, heavy vehicles and earth-moving machinery).

The procedure drives the operator step by step thanks to the dedicated program displayed on the **7" touchscreen display**, where the user can find all the information necessary for the treatment or setting of the machine. A built-in thermal printer allows to print the report at the end of the operations.



- 7" touchscreen display
- Recommended processing database
- Thermal printer
- Double stainless steel generators

#### SAFETY DEVICES

- Magnetic vehicle running sensor
- Integrated bubbler
- Pressure sensor
- Emergency push button

#### mod. 711

Engine  
Diesel until 12.000 cc  
Petrol until 16.000 cc



#### TECHNICAL DATA

Power supply	220V
Control panel	7" touchscreen display
Gas flow	400 L/h
Internal tank	3 L
Water consumption	200 ml/h
Power consumption	da 350 W a 945 W*
Dimensions mm	540L x 430W x 1010H
Weight	60 Kg (dry weight)



#### On-board software includes:

- Acoustic alarm
- Guided procedure
- Treatment cycle status
- Decarbonization duration setting for manual cycle
- Engine capacity setting for automatic cycle suggested duration

#### EQUIPMENT



Starter kit with electrolyte (potassium hydroxide) and demineralised water for the production of oxyhydrogen.

Main power switch located near the rear handling handles.



\*the power varies according to the size of the engine and the vehicle.





#### UP TO 16.000 CUBIC CENTIMETERS, BUT WITH TABLET ;)

The oxyhydrogen generator art. 711T is a station for the maintenance and care of endothermic engines, powered by any fuel (petrol, diesel, LPG, methane), developed in order to decarbonise the combustion and exhaust systems of small, medium and big engines (motorbikes, industrial generators, cars, RV, light commercial vehicles, heavy vehicles and earth-moving machinery).

The guided procedure drives the operator step by step thanks to a software on **removable 10" tablet in Window environment**, where the user can find all the information necessary for the treatment or the setting of the machine. A wire-less card allows to print an A4 format report or, for a "green" choice, **show the results with a QRcode and share them with the customer.**



- Removable tablet 10"
- Recommended processing database
- Digital job report with QR code
- A4 printing via wi-fi
- Double stainless steel generators

#### SAFETY DEVICES

- Magnetic vehicle running sensor
- Integrated bubbler
- Pressure sensor
- Emergency push button

mod. 711T  
Motori  
Diesel until 12.000 cc  
Petrol until 16.000 cc



#### TECHNICAL DATA

Power supply	220V
Control panel	Removable tablet 10"
Gas flow	400 L/h
Internal tank	3 L
Water consumption	200 ml/h
Power consumption	da 350 W a 945 W*
Dimensions mm	540L x 430W x 1010H
Weight	60 Kg (dry weight)



#### On-board software includes:

- Acoustic alarm
- Guided procedure
- Treatment cycle status
- Decarbonization duration setting for manual cycle
- Engine capacity setting for automatic cycle suggested duration



#### EQUIPMENT

Starter kit with electrolyte (potassium hydroxide) and demineralised water for the production of oxyhydrogen.

\*the power varies according to the size of the engine and the vehicle.



Detail of the internal safety bubbler, visible through the side opening of the chassis.



### AUTONOMOUS STATION POWERED 12V

The autonomous unit mod. 715 Cleancoll is specific for the **cleaning of the intake manifolds** of endothermic engines powered by any fuel (petrol, diesel, LPG, methane), by injecting a chemical product into the intake system using electronically controlled spray cycles managed by a peristaltic pump.

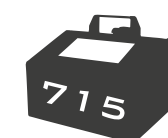
The automatic procedure drives the operator step by step thanks to the dedicated program displayed on the **7" touchscreen display**, where the user can find all the information necessary for the treatment, lasting about one hour with the engine running. An optional thermal printer could allow to print the report at the end of the operations.



### PRODUCT FEATURES

- Power supply 12V
- 12V cables 2m length
- Polarity inversion
- Vehicle running sensor
- 7" touchscreen display
- **Automatic procedure**
- Thermal printer (optional)
- Tank 1,2L
- Tank float
- **Peristaltic pump**
- Viton hose

mod. 715



The use of Cleancoll in combination with the oxyhydrogen generators mod. 700 allows us to obtain the **best results in engine maintenance** as the vaporized chemical product (not supplied), due to its corrosive properties, goes to act directly on the deposits inside the ducts, cleaning them and bringing **benefits to the entire intake and combustion cycle of the engine**.

The subsequent treatment with oxyhydrogen will eliminate any deposit left in the system.

### WHAT IS A PERISTALTIC PUMP

The peristaltic pump is used in all those cases where there is a need not to let the fluid come into contact with the pump components, for example because the fluid is aggressive, acidic or harmful to the pump components or to humans (solvents, fuels, chemical reagents, etc).

This type of pump allows the flow rate to be precisely calibrated and kept constant, making it ideal where dosing precision and measurement repeatability are essential requirements.

### TECHNICAL DATA

Power supply	12V
Control panel	7" touchscreen display
Flow regulation	Automatic
Internal tank	1,2 L
Product consumption	500 ml/h ca.
Power consumption	80 W
Dimensions mm	270L x 285W x 240H
Weight	7 Kg (dry weight)



WIKIPEDIA  
The Free Encyclopedia





## MOD. 714

### DIRECTLY CONNECTED TO THE OXYHYDROGEN GENERATOR

Mod. 714 Cleancoll is a unit specific for the cleaning of the intake manifolds of endothermic engines powered by any fuel (petrol, diesel, LPG, methane), by injecting a chemical product into the intake system using electronically controlled spray cycles managed by a **peristaltic pump**.

Mod. 714 Cleancoll can be installed as an accessory on all our oxyhydrogen generators beside mod. 710 and can be installed both at the time of the order, receiving the oxyhydrogen generator already complete, and afterwards using a special kit.

The guided procedure drives the operator step by step thanks to the dedicated program displayed on the **screen of the hydrogen generator**, where the user can find all the information necessary to carry out the treatment, lasting about one hour with the engine running (chemical product consumption around 500 ml/h), or for setting up the unit, with the possibility to print the report at the end of the operations.



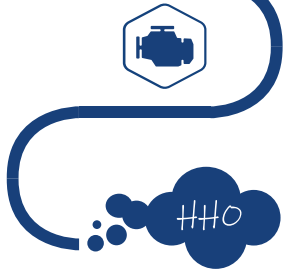
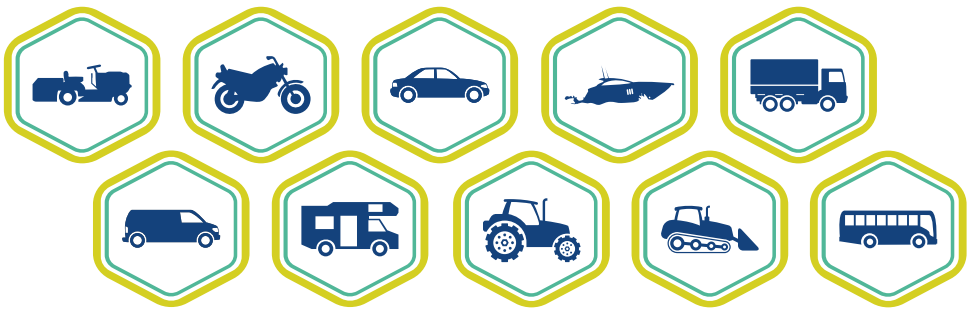
### PRODUCT FEATURES

- Magnetic vehicle running sensor
- **Automatic procedure**
- Tank 1,2L
- Tank float
- **Peristaltic pump**
- Viton hose

#### Cleancoll installation 714

710	✗
710.220	✓
710T.220	✓
711	✓
711T	✓

mod. 714



### TECHNICAL DATA

Flow regulation	<b>Automatic</b>
Internal tank	<b>1,2 L</b>
Product consumption	<b>500 ml/h ca.</b>
Power consumption	<b>80 W</b>



The use of Cleancoll in combination with the oxyhydrogen generators mod. 700 allows us to obtain the **best results in engine maintenance** as the vaporized chemical product (not supplied), due to its corrosive properties, goes to act directly on the deposits inside the ducts, cleaning them and bringing **benefits to the entire intake and combustion cycle of the engine**.

The subsequent treatment with oxyhydrogen will eliminate any deposit left in the system.

### WHAT IS A PRESISTALTIC PUMP

The peristaltic pump is used in all those cases where there is a need not to let the fluid come into contact with the pump components, for example because the fluid is aggressive, acidic or harmful to the pump components or to humans (solvents, fuels, chemical reagents, etc).

This type of pump allows the flow rate to be precisely calibrated and kept constant, making it ideal where dosing precision and measurement repeatability are essential requirements.







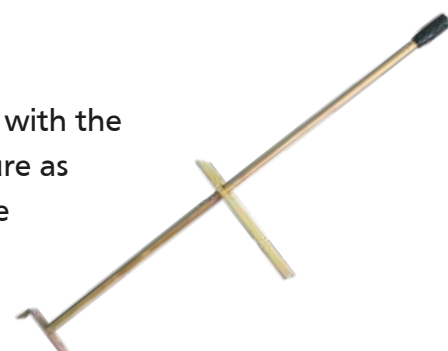
### COLORED FRONT PANELS

All models of the oxyhydrogen generator can be supplied with the front cover in three different colours. In addition to the standard black, you can choose light gray or red.



### PEDAL PRESS

Using the pedal press on the accelerator during maintenance with the oxyhydrogen generator, it is possible to optimize the procedure as a higher pressure inside the combustion system facilitates the elimination of unburnt gases.



### WI-FI CONNECT

The kit allows to connect the unit via wi-fi to a local area network, enabling to check the unit from a PC.



### CONSUMABLES

Demineralized water and potassium hydroxide (electrolyte) are the two elements needed for the production of oxyhydrogen.

The electrolyte must be added to the water in doses, which can be easily obtained using the supplied measuring cup.



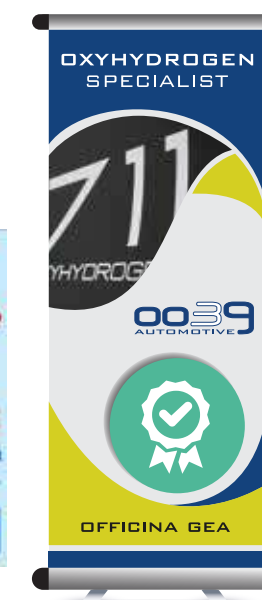
# ACCESSORIES



### INFORMATION MATERIALS

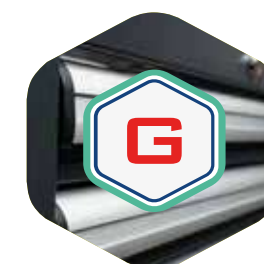
For those wishing to promote and make their customers aware of the treatment with oxyhydrogen, it is possible to have information and advertising material, such as:

- FOREX panel
- Roll-up banner 200H x 80L cm
- "Treatment done" stickers
- Social media campaigns
- Digital material



### STAY TUNED!

To keep in touch with the GEA and 0039automotive world, follow us on our social media profiles, where you can contact us or find updated news on our products and the world of workshop equipment. **0039 automotive, your mechanical care.**





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