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**Technology specification for cleaning fuel supply
system of ethanol gasoline vehicles**

使用乙醇汽油车辆燃油供给系统清洗工艺规范

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Foreword

This Standard was proposed by Ministry of Transport of the People 's Republic of China.

This Standard shall be under the jurisdiction of National Technical Committee on Auto Repair of Standardization Administration of China (SAC/TC 247).

Main drafting organization of this Standard: Ministry of Communications Highway Science Research Institute.

The drafting organizations of this Standard: Anhui Provincial Highway Transport Administration Bureau, Jiangsu Provincial Communications Department Transport Administration Bureau, Jilin University.

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Technology specification for cleaning fuel supply system of ethanol gasoline vehicles

1 Scope

This Standard specifies the fuel supply system cleaning project and technical requirements, operation process, inspection and commissioning, quality assurance period for gasoline vehicles before they use ethanol gasoline for the first time.

This Standard is applicable to cleaning fuel supply system of ethanol gasoline vehicles which have been driving for more than 30,000 km prior to the first use of ethanol gasoline.

2 Cleaning items and technical requirements

See Table 1 for cleaning items and technical requirements. The process flow is shown in Figure 1.

Table 1 Cleaning items and technical requirements

No.	Item	Technical requirements
1	Fuel tank	a) No dirt, rust, glial particles, accumulated water in the tank; b) Fuel tank pads are intact, fast and reliable, without wear, oil spill; c) No dirt in tank breathing valve, easy access and easy exhaust; d) The oil sensor float is alcohol resistant material.
2	Fuel pump	a) Clean, no impurities inside and outside of fuel pump; b) The pump membrane is alcohol resistant material; c) The fuel filter is clean, smooth, without dirt.
3	Fuel filter	a) Replace the disposable fuel filter; b) No dirt inside and outside the detachable fuel filter; filter is resistant alcohol filter such as metal grid or ceramic material.
4	Injector	No carbon deposition, blockage, drip oil leakage phenomenon
5	Tubing	a) Tubing is resistant to alcohol; b) Pipeline is clean and smooth; c) No sag, crack or leakage joints; d) The tubing connector is alcohol resistant material.
6	Fuel evaporation control device	a) Pipeline is resistant to alcohol, clean and smooth; b) The surface of the activated carbon tank is not damaged; c) Activated carbon is effective.

3.9 Carburetor cleaning

3.9.1 Clean the outside of the carburetor first. Then decompose the carburetor. Clean each oil channel, measuring hole, oil room, atomizing nozzle, needle and inlet filter, etc.

3.9.2 Check oil float, plastic parts, rubber parts. If they are made of a material susceptible to ethanol corrosion, it shall be replaced with alcohol resistant parts.

3.9.3 Install the carburetor and connect the tubing.

3.10 Oil-water separator cleaning

3.10.1 Check the oil-water separator. Replace it if it cannot work as normal.

3.10.2 Clean the oil-water separator to make it without dirt or accumulated water.

4 Inspection and debugging

4.1 Check the fuel supply system. The pipeline connection shall be reliable, without leakage. The relevant parameters shall meet the original technical requirements.

4.2 Make adaptive adjustment to carburetor engine. Properly adjust the concentration of the mixture. Advance the ignition advance angle.

4.3 After adding automotive ethanol gasoline, the engine shall start with good performance, idle stability, smooth running, without broken cylinder, tempering, blasting or abnormal sound.

5 Quality assurance period

Calculated from the date of completion and exit-factory, the vehicle shall travel 2000 km or 10d, whichever comes first.

_____ **END** _____

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