

Speed & Eco

E-FIRE

## Introduction of Product

### ECO Globe 21 Project JAPAN



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## 1. Introduction of Product

- Researched and Developed by the Seattle Colleges East-Asia Network, Okinawa, Japan  
Patent pending

This is the product of next generation which is resulted from the research of the College – the theme of development is “Speed and Eco”.

The Seattle Colleges East-Asia Network, Okinawa, Japan, developed the hoped-for product, “E-FIRE” with biotechnology.

Using biotechnology, E-FIRE has no influence on the human body, is a tender product for the environment, and improves fuel expenses.



E-FIRE is given a coat of a solvent on the sheet copper.

- Applying more solvent, the power is more than one-and-a-half times as much as regular.
- It was improved the image, changing both the front and the back of metal and stamp.
- Both the front and the back are covered with metal to withstand a high temperature.
- It is fixed with tie-wraps through the holes of four sides.

- High-quality (It is confirmed in U.S.A.)

The government official-recognized report was acquired in Washington.

- Improvement of fuel costs and Reduction of exhaust gas

It improves the performance of your car.

Perfect combustion makes the exhaust gas reduce. Tender product for the environment



2. Structure

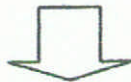
■ Improvement of fuel costs and Reduction of exhaust gas

By attaching of E-FIRE, it is sure that the performance of your car will be changed.

The idea of E-FIRE completely is different form former measures against exhaust gas.

<Measures for output: Former measures against exhaust gas>

The measures had been taken to attach the removal device for exhaust gas against the secondary-side output of engine.



<Measures for input: E-FIRE>

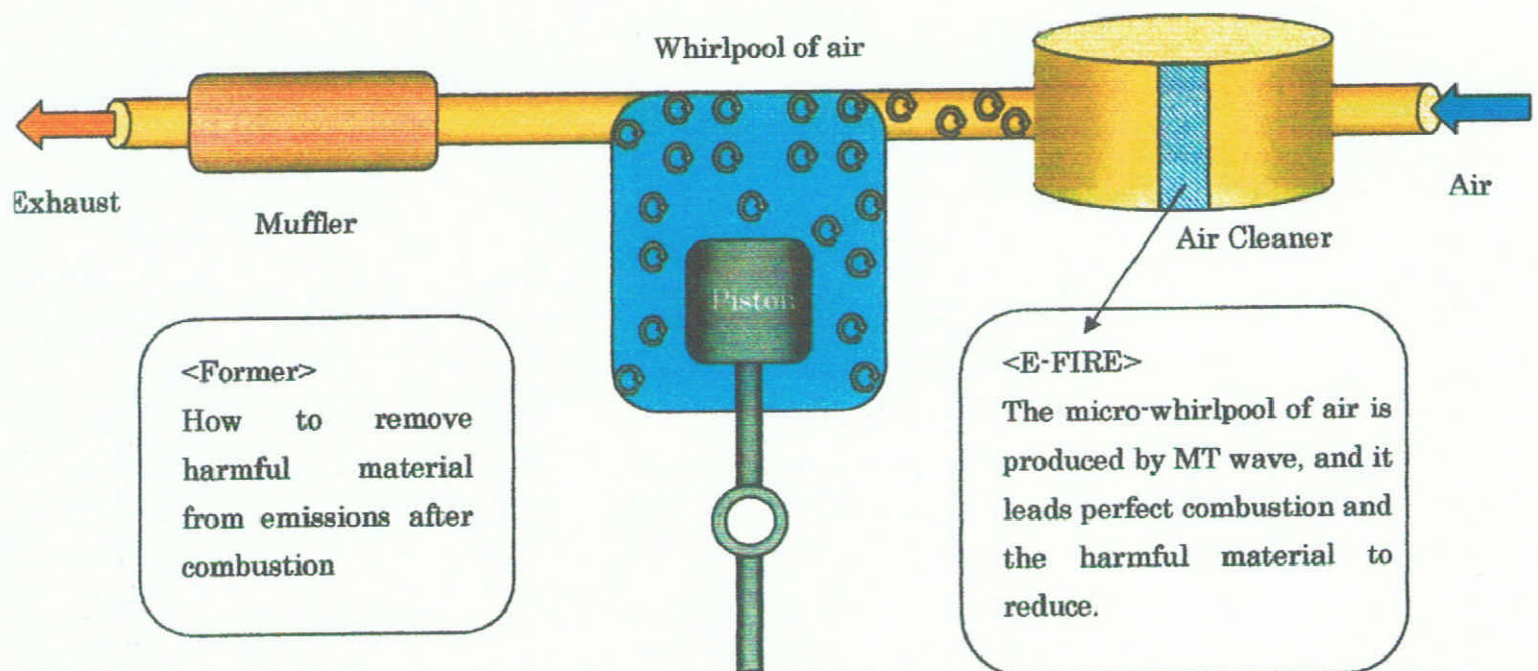
E-FIRE takes measures against the first-side input of engine.

The point is "perfect combustion".

It is E-FIRE that was developed to make a perfect combustion in engine.

After applying E-FIRE to the air filter, a whirlpool effect is created inside the filter leading to the combustion chamber. This whirlpool effect into a piston cylinder equalizes the vaporized fuel. This results in a balanced mixture of air and gasoline combusting the firing chamber. The perfect combustion of fuel leads to improve the power, reduce the exhaust gas, and increase in mpg.

<<Figure of the effect of E-FIRE>>



### 3. How to Attach

#### ■ Easy Attachment

It is easy to attach! Only 3 minutes!

You only stick it on the air cleaner or intake hose.



<In case of sticking on air cleaner>

Please wipe away the point where E-FIRE is stuck on.

Peel off the back paper and attach it tightly.

\*It is finished to attach.

<In case of sticking on intake pipe>

If it is hard to stick it on air cleaner box or there is no intake duct, please stick it around pipe (intake pipe) connected with engine from air cleaner box.

It's finished to attach

<In case of turbo car>

If you have a turbo car, it is effective to stick it around the core of intercooler (side tank etc.). It is more effective if you stick it on both there and air cleaner.

<Caution>

△ Avoid attaching to the place of turbine within 30 centimeters in case of a turbo car.

△ Be sure to avoid using imitations together. (It does not show its good performance.)

#### ■ Maintenance and Guarantee

Once you stick it on, the effect will continue until the car is scrapped.

→ E-FIRE is long-lived!

E-FIRE is free of maintenance if you are sure to stick it on the air cleaner (or intake hose). It is guaranteed for 3 years except for the sticky part. (The product performance is semi-permanent.)

Caution 1. As for the sticky part, it is no guarantee.

Caution 2. There is no guarantee of effects and products if you stick it on the part which is not specified.

Caution 3. If you peel off and reuse E-FIRE after attachment, it makes the effect deterioration. Avoid reusing the products which is peeled off.



\*It is free of maintenance. Once stuck on, it keeps on having until you scrap the car.

## 4. Price

### ■ Price

E-FIRE is classified in the following by the displacement of cars.

<E-FIRE>

| Type   | Price     | Application                              | Note                                     |
|--------|-----------|--|--|
| M-type | 21,000yen | 1,600cc~<br>3,000cc displacement or less | For gasoline-powered vehicle             |
| L-type | 31,500yen | 3,000cc~<br>6,000cc displacement or less | For gasoline, diesel, and LP-gas vehicle |

They are exclusive of consumption taxes.

## 5. Effect

### ■ Improvement of fuel costs

Economical with fuel → It is effective in cutting down costs.

It has an effect on gasoline, diesel, and LP-gas cars.

97% of the gasoline, diesel, and LP-gas cars have improved fuel costs by 9~38%.

\*It is effective in reducing costs for long-distance cars, trucks, and needles to say usual cars.

### ■ Reduction of Exhaust gas

It promotes perfect combustion. → Exhaust gas is reduced. → The environment of earth is protected.

T-company 2,000cc, sedan

Before After

CO : 1530ppm → 1.5ppm

HC : 285ppm → 3ppm

Nox : 612ppm → 21ppm

\*The effect can be confirmed if you drive a gasoline car attached with E-FIRE for five minutes.

\*The black smoke is decreased sharply in diesel car.

### ■ Power up

It promotes perfect combustion. → It improves the power and torque up. → It becomes stable.

You can recognize that your car accelerates smoothly after attachment.

The less the car has a power, the more it effectively shows.

### ■ Sign of Effect

You can realize the effect five minutes after attachment. → It shows the effect immediately.

If you drive a gasoline car attached with E-FIRE for five minutes, the smell of a muffler and exhaust gas decreased sharply, even if there is an acceptable error in any types of car. (It occurred because the

efficiency of combustion in engine has increased, and harmful material has decreased.)

Gasoline car : 5~15 minutes after you drive

Diesel car : 1~3 hours after you drive

(It often happens that it takes one week in case of heavy pollution of dieses cars.)


\*E-FIRE shows the effect in all gasoline, diesel and LP gas cars.


# INTAKE MAGIC Vehicle Inspection Report

Center of Engine Parameters Measurement, The state of Washington, U.S.A.


Before  
installaton of  
INTAKE MAGIC

## Vehicle Inspection Report





1504475



www.ecv.wa.gov/programs/air/airinfo.html http://www.emissions.wa.com

| Inspection Summary   |   | Payment Amount* \$15.00 | Payment Type: CREDIT  |
|--|---|-------------------------|-----------------------|
| <b>Final Result:</b> <span style="font-size: large;">PASS</span> | *This term is your receipt for the test fee |                         | Test Counter: 1       |
|  | Test ID Number: 311066747300                |                         | Software Version: 1.6 |

| Vehicle Information     |                        | VIN: 1GCEK14Z4R2134936 |                   |
|-------------------------|------------------------|------------------------|-------------------|
| DCL Data Update: NO     |                        | License Number: 43870X | License State: WA |
| Fuel Type: GAS          | Vehicle Type: TRUCK    | Body Type: PICKUP      | Model Year: 1994  |
| Manufacturer: CHEVROLET | Model: C1500 PICKUP    | Engine Size: 4.3 L     | GVWR: <=8,500     |
| Cylinders: 6            | Transmission: MANUAL   | Exhaust: SINGLE        | AES ID #: N/A     |
| Odometer: 98216         | Lookup Table ID: 13911 | Equip Test Wt: 4250    | Horsepower: 112   |

| Inspection Station Information       |  | Station: 3                | Lane: 2              |
|--------------------------------------|--|---------------------------|----------------------|
| Start Date/Time: 10/21/2003 02:41 PM |  | Operator 1: DENNIS DENNIS | Operator 2: BOBO BOB |


| Gas Cap Test Results |  | Cap 1: PASS | Cap 2: N/A |
|----------------------|--|-------------|------------|
| Result: PASS         |  | Cap 3: N/A  | Cap 4: N/A |


This emission test was performed in accordance with federal regulations on a heavy-duty vehicle as required by the Clean Air Act. Agbar Technologies, Inc. is the Operator of Ecology.

| Test Results             |          | Test Type: ASM        | Prescribed Type: ASM |        |      |
|--------------------------|----------|-----------------------|----------------------|--------|------|
| Overall ASM Result: PASS |          | Number of Restarts: 0 |                      |        |      |
|                          | HC (PPM) | CO (%)                | CO+CO2 (%)           | O2 (%) | RPM  |
| Crude Limit              | 200      | 1.5                   | 5                    | N/A    | N/A  |
| Crude Emissions          | 121      | 0.14                  | 15.54                | 0.25   | 2580 |
| Crude Result             | PASS     | PASS                  | N/A                  | N/A    | N/A  |


After  
installaton of  
INTAKE MAGIC

## Vehicle Inspection Report





1504328



www.ecv.wa.gov/programs/air/airinfo.html http://www.emissions.wa.com

| Inspection Summary   |   | Payment Amount* \$15.00 | Payment Type: CREDIT  |
|--|---|-------------------------|-----------------------|
| <b>Final Result:</b> <span style="font-size: large;">PASS</span> | *This term is your receipt for the test fee |                         | Test Counter: 1       |
|  | Test ID Number: 311066730541                |                         | Software Version: 1.6 |

| Vehicle Information     |                        | VIN: 1GCEK14Z4R2134900 |                   |
|-------------------------|------------------------|------------------------|-------------------|
| DCL Data Update: NO     |                        | License Number: 43870X | License State: WA |
| Fuel Type: GAS          | Vehicle Type: TRUCK    | Body Type: PICKUP      | Model Year: 1994  |
| Manufacturer: CHEVROLET | Model: C1500 PICKUP    | Engine Size: 4.3 L     | GVWR: <=8,500     |
| Cylinders: 6            | Transmission: MANUAL   | Exhaust: SINGLE        | AES ID #: N/A     |
| Odometer: 98226         | Lookup Table ID: 13911 | Equip Test Wt: 4250    | Horsepower: 112   |

| Inspection Station Information       |  | Station: 3                | Lane: 1                     |
|--------------------------------------|--|---------------------------|-----------------------------|
| Start Date/Time: 10/21/2003 03:36 PM |  | Operator 1: JACKIE JACKIE | Operator 2: MICHAEL MICHAEL |

| Gas Cap Test Results |  | Cap 1: PASS | Cap 2: N/A |
|----------------------|--|-------------|------------|
| Result: PASS         |  | Cap 3: N/A  | Cap 4: N/A |

This emission test was performed in accordance with federal regulations on a heavy-duty vehicle as required by the Clean Air Act. Agbar Technologies, Inc. is the Operator of Ecology.

| Test Results             |          | Test Type: ASM        | Prescribed Type: ASM |        |      |
|--------------------------|----------|-----------------------|----------------------|--------|------|
| Overall ASM Result: PASS |          | Number of Restarts: 1 |                      |        |      |
|                          | HC (PPM) | CO (%)                | CO+CO2 (%)           | O2 (%) | RPM  |
| Crude Limit              | 200      | 1.5                   | 5                    | N/A    | N/A  |
| Crude Emissions          | 25       | 0.01                  | 15.71                | 0.37   | 1550 |
| Crude Result             | PASS     | PASS                  | N/A                  | N/A    | N/A  |

| Measurement Items | Before Installation | → | After Installation |
|-------------------|---------------------|---|--------------------|
| CO                | 0.14%               | → | 0.01%              |
| HC                | 121ppm              | → | 25ppm              |