



The engine used for vehicle and vessel is called the internal combustion engine. It has been engineering judgment that automobiles are moving getting power under the cycle of 4 –stroke in engine called "inhale- compression-explosion exhaust"

This is the serious of repeated process which is air and fuel inhaled and compressed into cylinder by piston, exploded by spark plug, and the burned air exhausted. Unfortunately, there might be some big difference between engineering theory and reality. The most important process among 4-storke is "inhale" because it is the process for air and fuel to be supplied to the cylinder.

When inhale-stroke happens to all the fossil automobiles, the air is supplied into cylinders by pistons. However, the most essential air needed to be used for automobiles is not likely to be inhaled. The fuel is injected by force with the only supplying pressure method automotive makers unilaterally regulate.

Being different from the real 4 strokes, the real cycle of 4 strokes is working as "injection-compression-exp losion-exhaust". The fuel supply by intentional injection, not by "inhale" cannot meet the changeable driving condition at any time.

More than 15% of the precious fuel on average is likely to be wasted by intentional injection, which also cause environmental air pollution by incomplete combustion in the engine.

In addition, the excessive fuel supply to the engine can cause abnormal strange heat regardless of complete combustion. Actually, thus heat is the carbon emission which accelerates global warning.

The precious fuel is being wasted and even worsening the air pollution and global warming. It is a big dile mma even though we have such an automatic device or not for fuel supplying fit for driving condition.







### Car Fuel Supply Pressure Graph & Car RPM (Current Cars Case)

1.









### The principle of "Magic Capsule"

•There are 3 steps taken inside of "Magic Capsule".





• • • • The principle of "Magic Capsule"

•There are 3 steps taken inside of "Magic Capsule".

• 1st step : 1st space for air suspension

 The fuel pressure by mechanical power such as fuel pump, injection pump, or high pressure pump is not necessary fuel for real driving. The 1st space for air suspension inside of "Magic Capsule" blocking these fuel direct to engine plays a role like a spring in preventing the fuel pressure supplied intentionally and storing it.



•There are 3 steps taken inside of "Magic Capsule".

2nd step : nozzle layer composed of multi-layer

There are normally different inhale pressure supplied inside cylinder of engine in the car depending on various driving condition. The nozzle layer composed of multi-layer controls quite freely the fuel pressure kept in the 1st space for air suspension to the engine fit for inhale pressure in real time.



The principle of "Magic Capsule"

•There are 3 steps taken inside of "Magic Capsule".

#### •3rd step : 2nd space for air suspension

This is the final space for reading the exact inhale pressure of engine. Just like the elasticity on the rubber ball by finger's touch, as the 2nd space plays a role in reading the exact inhale pressure of engine like a air spring.

In addition, it plays another role like a spray to make a complete combustion at ignition time depending on rpm in this final process.



Top-notch technology of "Magic Capsule"



### Switch pressure

• With the function of 1st space for air suspension, the fuel supplied intentionally will be completely blocked and kept. The max pressure the fuel pump supplies will be kept as it is. At this time, when the fuel is supplied by the operation of engine, the amount of fuel will be automatically controlled fit for road condition and velocity by the nozzle composed of 2nd multi-layer. Besides, when the fuel is sprayed to engine in the 3rd space for air suspension in the device, the fuel pressure will be supplied automatically switched fit for real driving condition.



Top-notch technology of "Magic Capsule"



#### •Fuel particle

• As shown in the picture, the red part on the upper area of capsule means high pressure and the 1st space for air suspension will be kept in the upper area of red part. The changed blue color descending means lowered fuel pressure. Even though the fuel pressure goes down, the fluid speed gets fast and passed the narrow space, which makes fuel particle more fast through orifice effect.



Top-notch technology of "Magic Capsule"



#### •product effectiveness

•1. The fuel consumption will be reduced by supplying the fuel with switched pressure.

•2. The complete combustion produces no discharge gas by fuel particle, and thus power will be improved thanks to high flame propagation speed.

•3. The residue left inside cylinder will be removed by fuel particle, which makes the combustion rate higher as time goes by.



• After actual test , Test result

广州建成进行外生物建築的有限公司

項目	安装首	安裝后	说明
测试时间	2007年8月9日	2007年8月11日	
天气状况	EŴ	Wi .	
气温	34%	35°C	
行駛里程	540 公里	546 公里	
耗油	54.6 升	43.5 升	
刺车次数	20 25	15次	
停车次数	5次	5次	

节油率 = (54.6L-43.5L) ÷54.6L×100%

-20.32%

六、 结论

器试结果表明,"Magie Capsule"汽油节线、环保装置在本工况 条件下有一定的节能效果。尤其在中低速时较为明显,节油率为 20.32%。

劉斌人员,察晓克,黄备民 审 定,吴 军

ARTICLE	BEFORE SETTING	AFTER SETTING	REMARKS
TEST DATE	2007 8 9	2007 8 11	
WEATHER	SUNNY	SUNNY	
TEMPERATURE	34'C	35°C	
MILEAGE	540	546	
OIL COMSUMPTIO	54.6	43.5	
BRAKING TIMES	20	15	
STOPS	5	5	

RATE OF OIL SAVING =  $(54.6L - 43.5L) / 54.6L \times 100\%$ = 20.32%

TEST RESULT SHOWS: "MAGIC CAPSULC" OIL SAVING .ENVIRONMENT EQ UIPMENT HAVE CERTAIN SAVING OIL EFFECT. ESPECIALLY IN MEDIUM AND LOW SPEED IS MORE OBVIOUS.SAVING OIL IS 20.32%.

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10720			测试机	見(平均值	D	
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and the second	一氧化碳	2.23	-			
海南马自达	碳化氮	156				
	一氧化碳	0.36	0.35	0.03	0.05	
"州日产风神	硬化弧	123	125	50	42	
试验项	B		-	加發后		
	-	测试结果 (平均值)				
车型	测试内容	意道	200089	303099	40004	
	一氧化碳	0.59				
海南马自达	碳化瓴	64				
	一氧化碳	0.00	0.08	0.1	0.00	
广州日产风神	硬化级	5	38	-5	3	

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4-04	— Be	efore Install	_	After Instal	0.5	Reduce Rate
二 邀请马 :	间达	硬化氮	156	碳化氢	64	加坡后降低58.97%
China Car	1.44	一氧化碳	0.36	一氯化碳	0	首张后即低100%
Japan Car	179	碳化焦	123	碳化氢	5	加限后降低95.94%

5 5

#### 6. TEST RESULT

6.1 A01, B01 C01 CAR NO.:A01. CAR NO.: B01, after setting C01 Energy saving and environmental protection.test result as belows:

test content		BEFORE SETTING					
car model	test content	TEST RESULT (AVERAGE)					
1		RPM	2000	3000	4000		
hainan mazda	СО	2.23					
GUANGZHOU	H4C	156					
NISSAN	СО	0.36	0.36	0.03	0.05		
	H4C	123	125	50	42		
test content	,	AFTER SETTING					
CAR MODEL	TEST CONTENT	TEST	RESULT	(AVERA	GE)		
hainan mazda		RPM	2000	3000	4000		
naman mazda	СО	0.59					
	H4C	64					
GUANGZHOU	CO	0.00	0.08	0.1	0.00		
NISSAN	H4C	5	38	5	3		

### REMARKS: IDLE TEST COMPARASION AS BELOWS BEFORE SETTING AND AFTER SETTING

car model	BEFORE SETTING		AFTER SETTING		COMPARASION %
1	CO	2.23	СО	0.59	AFTER SETTING REDUCED 73.54%
hainan mazda	H4C	156	H4C	64	AFTER SETTING REDUCED 58.97%
GUANGZHOU	CO	0.36	CO	0	AFTER SETTING REDUCED 100%
NISSAN	H4C	123	H4C	5	AFTER SETTING REDUCED 95.94%

Carbon monoxid
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 Hydrocarbons

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- This Magic Capsule's life time is semi permanent
- Actual test will be demonstrated by Technical team
- The Magic capsule can be used for any cars

Sedan . SUV , Bus , Truck , Trailer , Ship , Generator,

Construction equipment etc ...

### Saving Simulation

### A. Taxi – Fuel Gasoline Cost saving - Minimum 10% Saving

Fuel	130 dh	S	x 0.10	=	13 dhs
Days	13 dhs	Х	25 Times	=	325 dhs / month
Months	325 dhs	5 >	12 months	5 =	3,900 dhs / year
3,9	00 dhs	Х	100 cars	=	390,000 dhs / year
3,9	00 dhs	Х	1,000 cars	=	3,900,000 dhs / year
3,9	00 dhs	Х	5,000 cars	=	19,500,000 dhs / year
3,9	00 dhs	Х	10,000 cars	=	39,000,000 dhs / year
3,9	00 dhs	Х	20,000 cars	=	78,000,000 dhs / year

**Note :** The above calculations are of lower end considering the minimum savings and fuel savings can reach to maximum savings of 20.32% as per the actual trials conducted & reports attached