



Gas vaporiser /  
Low pressure  
reducer

It reduces the pressure of LPG from moderate pressure to atmospheric pressure and regulates the supply of LPG to the engine with respect to load conditions.



High pressure  
reducer

Reduces the pressure of LPG from tank pressure to working pressure.



Petrol solenoid  
valve  
Gas solenoid  
valve

It is an electric solenoid valve which **on** or **off** the supply of petrol.  
Its main function is to **on** or **off** the supply of LPG controlled by fuel selector switch.



LPG multivalve

It is a safety device with multi functional valve.



Lubrication  
system  
(Mist Type)

Oil pump connected to the engine shaft, which supplies the oil with respect to the engine speed.



Switch &  
Wire harness

The fuel mode can be selected to either PETROL / LPG electronically.



Mixer, hardware &  
Hose pipes set

Mixer & other accessories for complete fitment.



Copper pipe set

PVC coated copper pipes (2 Nos.), which carries the gas from the multivalve to gas solenoid valve & filler entry to tank.



Gas tank-  
Multivalve

It stores LPG, which is fixed under the driver's seat.



# Leader Auto Gas (I) Pvt. Ltd.

GOVT. OF INDIA'S FIRST APPROVED AUTO LPG KIT



A.R.A.I. approval  
certificates from  
1<sup>st</sup> January 1979 - 31<sup>st</sup> march 2008  
**Bharat Stage I**  
**Bharat Stage II**



## Leader Auto Gas (I) Pvt. Ltd.

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### Service with Broader Knowledge.

The "Leader Group" is established in 1997 in Mumbai. The parent company "Leader Gas & Petrochem Ltd.", is in LPG business having a massive, modern & automated factory located at Shahpur 100 km away from Mumbai.

"Leader Auto Gas (I) Pvt. Ltd." is a sister concern of "Leader Gas & Petrochem Ltd.", and is presently manufacturing 3 wheeler LPG conversion kit.

"Leader Auto Gas" is the First company in India to receive type approval certificate for 3 wheeler LPG kit from Govt. of India's autonomous body. The whole kit is indigenously developed by its own R&D dept. The dealers & technicians of the company are well trained for fitments & service back-up.

When LPG the new concept in effective pollution free fuel for automobiles was introduced in our country, "Leader Auto Gas" a sister concern of "Leader Group" naturally dug a little into this vast opportunity, with the original principles of "Leader Group", LPG auto has built its foundations with its greatest assets-customers. The new idea of an alternative to petrol has taken hardly any time for acceptance. Customers are not only using the product but are smiling and smiling with varied benefits.

#### AUTO LPG & KIT

The term LPG refers to varieties of Hydrocarbons mainly consists of Propane (C<sub>3</sub>H<sub>8</sub>) and Butane (C<sub>4</sub>H<sub>10</sub>) extracted from crude oil by refining processes. Conversion kit is a device by which we can drive our vehicle by using LPG as a fuel, as well as we will make it bi-fuel (can run by LPG and petrol both).

#### BETTER MILEAGE

As per table given below you can easily get two times more mileage in LPG for the same cost of 1 ltr. petrol.

Fuel	Units	Rs.	km	Rate per km
Petrol	1Ltr.	50.50	24-30	2.02
LPG	1Ltr.	25.00	25-30	1.00

Cost effective as of April 2006 a.d. (Conditions Apply)

#### SMOOTH OPERATION

The kit is indigenously designed with latest technology for its smooth run. At initial stage the multivalve fitted on the top of tank extracts the gas from the tank and directs toward the vaporizer through a HPR (High Pressure Reducer) where it regulates the flow of gas as per requirement of the engine (Rich, Lean or Idle conditions) then directing to the engine through a mixer, reduces engine noise level due to hi-octane value.

#### Our Mission

Maximum auto conversion for a Clean, Green & Eco-friendly way of life.

The company has recently received A.R.A.I. approval certificates from 1<sup>st</sup> January 1979 - 31<sup>st</sup> march 2008 (i.e. Bharat Stage I & II).

#### HIGH - TECH INNOVATION FOR COMBUSTION

The word that bespeak our production system. "T" for Technology. Our engineers of repute have put together the conversion kit which boasts of indigenous techniques. All components are firstly; studied, secondly; designed and lastly; developed, using CAD - CAM systems. All our products are highly automated with the use of several numerical control machines. We hope to receive accolations from the "Ministry of Shipping, Road & Highways Transport". In an ever changing market only innovation and reworking on blueprints have given us the present LPG auto conversion kit. Thanks to the original architecture.

#### SAFEST FUEL

LPG is safe as any other fuel like petrol & diesel. Tested with stringent norms by A.R.A.I. Auto LPG gas Tank/Cylinder made of high quality steel. They are deformation and puncture resistant. The



fuel is stored inside the tank in liquid form so in case of leakage the gas will escape to the open air, there is no hazard to the vehicle. The tank has a capacity to store 15 liter of LPG. The tank and multivalve both are certified from CCOE the Department of Explosives (Govt. of India). The main advantage of multivalve fitted on the tank is in case of accident the electrical connection to the solenoid valve will automatically shut off the supply.

#### LONGER LIFE

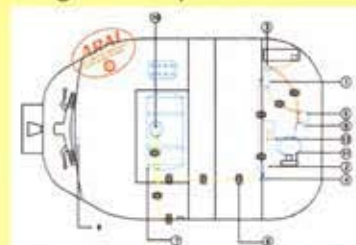
Low Carbon deposit, lesser engine vibration, increases life of spark plug. Use of LPG as an auto fuel increases the engine life 3 times more than petrol as fuel because of the gaseous form of fuel flow inside the engine keeps the engine oil cleaner and reduces the internal wear & tear of the engine. It automatically increases the engine life.

#### POLLUTION FREE

Environment friendly, No black smoke, No emission.

#### EASY INSTALLATION

A proper job will take 3/4 hours for an efficient technician. No modification of engine is required.



Layout of LPG Fitment (Leader Auto)