

# KIT EVO



## FEATURES

The LANDIRENNO EVO system is one of the world's best-selling LPG systems due to its outstanding price to quality ratio. Its compact size makes it suitable for the vast majority of vehicles.

The components selected for the system are among the quietest and smallest available, guaranteeing easy installation and high performance. The system is subjected to strict endurance tests to guarantee maximum quality and efficiency over time.

It is designed for vehicles with 2 to 6 cylinder engines, including turbo engines.

The LPG system is compatible with the strictest emissions standards (Euro 6).

LANDIRENNO EVO features OBDII connectivity via the K and CAN protocols for complete, accurate diagnostics of the gas system. The OBD version of the system supports the LANDIRENNO CONNECT smartphone app. The app provides information on consumption, autonomy, emissions and more.

## COMPOSITION

### KIT

- PRESSURE REGULATOR
- ECU
- RAIL INJECTORS \*
- BOXER Y CONNECTOR \*\*
- SQUARE SWITCH
- MAP SENSOR
- UNCOUPLE WIRING HARNESS
- GAS FILTER
- HOSES & PIPES
- T CONNECTORS
- CLAMPS
- BRACKETS

### MINIKIT

- PRESSURE REGULATOR
- ECU
- RAIL INJECTORS \*
- SQUARE SWITCH
- MAP SENSOR
- UNCOUPLE WIRING HARNESS
- GAS FILTER

\* The Kit are available with or without rail

\*\* available in 6 cylinder kit

## MAINTENANCE

- Gas filter replacement (low pressure circuit) and controls (20.000 km).
- Gas injectors overhaul (60.000 km).
- Pressure regulator maintenance service (80.000 km).

## HOMOLOGATIONS



DGM (Italy) 59598 LPG Injection systems Euro 5 - 6 for power (kW/cylinder) from 9 kW to 45 kW

DGM (Italy) 59526 LPG turbo engines systems Euro 3 - 4 for power (kW/cylinder) from 860 cc to 3160 cc

DGM (Italy) 59626 LPG aspirated systems Euro 3 - 4 for power (kW/cylinder) from 590 cc a 2500 cc


R115 006026 LPG turbo and aspirated systems Euro 5 - 6 for FIAT engine power (kW/cylinder) from 12,3 kW to 44,3 kW (only for list of vehicles and kits on certificated R115)

**COMPONENTS**

PRESSURE REGULATOR	LI10 / LI10M	PRESSURE REGULATOR	LI02
	NOMINAL OPERATING	40 kg	
	OPERATING PRESSURE (RELATIVE)	0,95 bar (LI10) - 1,2 bar (LI10M)	
	PRESSURE SETTING SAFETY VALVE (REL.)	4 bar	
	WORKING TEMPERATURE	-20°C ÷ 120°C	
	ELECTRIC FEATURES COIL SOLENOID	12 V - 11 W	
NOMINAL OPERATING	23 kg	OPERATING PRESSURE (RELATIVE)	0,95 bar
PRESSURE SETTING SAFETY VALVE (REL.)	4 bar	WORKING TEMPERATURE	-20°C ÷ 120°C
ELECTRIC FEATURES COIL SOLENOID	12 V - 11 W		

ECU	EVO 4CYL.	ECU	EVO 6CYL.
	CLASS IP	IP54	
	VOLTAGE POWER	10-16 Vdc	
	WORKING TEMPERATURE	-40°C ÷ 120°C	
	ENTRY CONNECTION	48 PIN	
	DIMENSION	138x150x35 mm	
CLASS IP	IP6K9K	VOLTAGE POWER	10-16 Vdc
WORKING TEMPERATURE	-40°C ÷ 120°C	ENTRY CONNECTION	60 PIN
DIMENSION	196x163x43 mm		

RAIL INJECTORS	EVO	RAIL INJECTORS	EVO INTERCHANGEABLE NOZZLES																
	INJECTOR TYPE	Normally closed	<table border="1"> <thead> <tr> <th colspan="2">NOZZLES</th> </tr> <tr> <th>COLOR</th> <th>SIZE</th> </tr> </thead> <tbody> <tr> <td>RED</td> <td>1.6</td> </tr> <tr> <td>YELLOW</td> <td>1.8</td> </tr> <tr> <td>GREEN</td> <td>2.0</td> </tr> <tr> <td>BLACK</td> <td>2.2</td> </tr> <tr> <td>WHITE</td> <td>2.4</td> </tr> <tr> <td>GREY</td> <td>2.6</td> </tr> </tbody> </table>	NOZZLES		COLOR	SIZE	RED	1.6	YELLOW	1.8	GREEN	2.0	BLACK	2.2	WHITE	2.4	GREY	2.6
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CLASS IP	IP54																		
CONNECTOR	AMP-Tyco Super Seal																		
WORKING TEMPERATURE	-40°C ÷ 120°C																		
WORKING PRESSURE (RELATIVE)	0,5 ÷ 4,5 bar																		
VOLTAGE - CURRENT WORKING	4,5/13,5 V - 2 A																		
OPENING - CLOSING TIME	2,45 ms - 1,9 ms																		

SWITCH	SQUARE
	<p>An electronic control module with the characteristic square shape whose functions are:</p> <ul style="list-style-type: none"> <li>• gas / gasoline switch and indication fuel in use by means of two LEDs</li> <li>• display of the quantity of gas present in the tank using 5 LEDs.</li> </ul> <p>The switch also has a buzzer which comes into operation in the following conditions: back to petrol for low pressure, back to petrol for diagnosis.</p>

**VERSIONS**

DESCRIPTION	OBD	CYL.	PRESSURE REGULATOR	Max power (kW)*	ECU	RAIL	NOZZLES
KIT LPG EVO LI02	no	2-4	LI02	100 / 110	EVO 4CYL	EVO (not included)	(not included)
KIT LPG 4C.EVO LI02 W/RAIL	no	4	LI02	100 / 110	EVO 4CYL	EVO (without nozzles)	(not included)
KIT LPG 4C.EVO POLAR W/RAIL	no	4	LI10	140 / 160	EVO 4CYL	EVO (without nozzles)	(not included)
KIT LPG EVO OBD LI02	yes	2-4	LI02	100 / 110	EVO OBD 4 CYL	EVO (not included)	(not included)
KIT LPG 4C.EVO OBD LI02 W/RAIL	yes	4	LI02	100 / 110	EVO OBD 4CYL	EVO (without nozzles)	(not included)
KIT LPG 4C.EVO OBD POLAR W/RAIL	yes	4	LI10	140 / 160	EVO OBD 4CYL	EVO (without nozzles)	(not included)
KIT LPG 6C EVO OBD LI10M W/RAIL	yes	6	LI10M	180 / 200	EVO OBD 6C	EVO (without nozzles)	(not included)
MINIKIT LPG 4C.EVO LI02 W/RAIL	no	4	LI02	100 / 110	EVO 4CYL	EVO (without nozzles)	(not included)
MINIKIT LPG 4C.EVO POLAR W/RAIL	no	4	LI10	140 / 160	EVO 4CYL	EVO (without nozzles)	(not included)
MINIKIT LPG 4C.EVO OBD LI02 W/RAIL	yes	4	LI02	100 / 110	EVO OBD 4CYL	EVO (without nozzles)	(not included)
MINIKIT LPG 4C.EVO OBD POLAR W/RAIL	yes	4	LI10	140 / 160	EVO OBD 4CYL	EVO (without nozzles)	(not included)
MINIKIT LPG 6C EVO OBD LI10M W/RAIL	yes	6	LI10M	180 / 200	EVO OBD 6C	EVO (without nozzles)	(not included)

\* cold weather / temperate weather