

# KIT OMEGAS (4 cyl.)



## FEATURES

LANDIRENNO OMEGAS, for vehicles with 2- to 4-cylinder engines, is Landirengo's flagship system, and the most popular with automobile manufacturers all over the world.

Careful selection of components for speed, precision, resistance to high temperatures and impermeability allow the system to pass the strictest endurance tests, ensuring maximum efficiency over time.

The components, which represent the top of the Landirengo range, are: a 48-pin ECU with OBDII connectivity via the CAN protocol for complete, accurate diagnostics of the gas system; single-stage regulators with a built-in solenoid valve; a low-pressure LPG filter; and every accessory to ensure optimal component mounting.

LPG is accurately metered by the high-precision GIRS12 injector rail (not included in the basic kit). The system is compatible with the most stringent emissions standards (Euro 6 ready). Advanced calibration offers the highest levels of accuracy and precision when setting up the system.

This system includes the latest software and supports the LANDIRENNO CONNECT application.

## COMPOSITION

### KIT

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

### MINIKIT

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

\* Uncouple wiring harness injectors exclusion not included in kit version with LI10

## 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 9kW to 45kW


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


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


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

## COMPONENTS

PRESSURE REGULATOR	LI10 / LI10M	PRESSURE REGULATOR	LI12		
	NOMINAL OPERATING	40 Kg		NOMINAL OPERATING	30 Kg
	OPERATING PRESSURE RELATIVE	0,95 bar (LI10) - 1,2 bar (LI10M)		OPERATING PRESSURE	0,95 bar relative
	PRESSURE SETTING SAFETY VALVE	4 bar relative		PRESSURE SETTING SAFETY VALVE	4 bar relative
	WORKING TEMPERATURE	-20°C ÷ 120°C		WORKING TEMPERATURE	-20°C ÷ 120°C
	ELECTRIC FEATURES COIL SOLENOID	12V - 11W		ELECTRIC FEATURES COIL SOLENOID	12V - 11W

ECU	OMEGAS 4.0 OBD	
	CLASS IP	IP54
	VOLTAGE POWER	10-16 Vdc
	WORKING TEMPERATURE	-40°C ÷ 105°C
	ENTRY CONNECTION	48 PIN
	DIMENSION	134x152x36 mm

RAIL INJECTORS	GIRS12	
	INJECTOR TYPE	Normally closed
	CLASS IP	IP54
	CONNECTOR	MTA HP6
	WORKING TEMPERATURE	-30°C ÷ 95°C
	WORKING PRESSURE (RELATIVE)	Max 3bar
	VOLTAGE - CURRENT WORKING	9/16V - 1,5A
	OPENING - CLOSING TIME	1,9 ms - 2,0 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	CYL.	Max power (kW)**	PRESSURE REGULATOR	ECU	RAIL
KIT LPG LI12 OMEGAS 4.0 W/O RAIL*	2-3-4	90 - 120	LI12	OMEGAS 4.0 OBD	GIRS12 (NOT INCLUDED)
KIT LPG LI10 OMEGAS 4.0 W/O RAIL	2-3-4	140 - 160	LI10	OMEGAS 4.0 OBD	GIRS12 (NOT INCLUDED)
MINIKIT LPG LI12 OMEGAS 4.0 W/O RAIL*	2-3-4	90 - 120	LI12	OMEGAS 4.0 OBD	GIRS12 (NOT INCLUDED)
MINIKIT LPG LI10 OMEGAS 4.0 W/O RAIL	2-3-4	140 - 160	LI10	OMEGAS 4.0 OBD	GIRS12 (NOT INCLUDED)

\* Uncouple wiring harness injectors included in ECU

\*\* cold weather / temperate weather