

# KIT OMEGAS DIRECT (8 cyl.)



## FEATURES

The LANDIRENNO OMEGAS DIRECT system represents a new evolution of the conventional sequential system, designed for conversion of direct injection engines to LPG. It helps to reduce emissions, ensuring compliance with standards up to Euro 6. The Landirengo Omegas Direct system permits accurate fuel metering, thanks to the performance characteristics of its GI25 rail injectors (not included in the basic kit). It also ensures high performance while preserving the engine over time through special calibration - executed and validated by Landirengo - based on the model and engine ID.

LANDIRENNO OMEGAS DIRECT, for vehicles with 5- to 8-cylinder engines, interacts with the petrol system and offers OBDII connectivity via the K and CAN protocols for advanced gas system diagnostics. The system consists of a 60+48 pin dual ECU connector, with integrated injector cut-off wiring harnesses, a 200 kW oversized regulator, a high-pressure pipe (8mm diameter), a low-pressure LPG filter, and every accessory to ensure optimal component mounting. For the conversion of specific vehicles, see the feasibility list published by Landirengo.

## COMPOSITION

### KIT

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

### MINIKIT

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

## 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 1040cc to 2480cc


DGM (Italy) 59626 LPG aspirated systems Euro 3 - 4 for power (kW / cylinder) from 1200cc a 1990cc (only GI25 injectors)

## COMPONENTS

<b>PRESSURE REGULATOR</b>	<b>LI10M</b>	
	NOMINAL OPERATING	40 Kg
	OPERATING PRESSURE	1,2 bar relative
	PRESSURE SETTING SAFETY VALVE	4 bar relative
	WORKING TEMPERATURE	-20°C ÷ 120°C
	ELECTRIC FEATURES COIL SOLENOID	12 V - 11 W

<b>ECU</b>	<b>OMEGAS DIRECT 1.0</b>	
	CLASS IP	IP6K9K
	VOLTAGE POWER	10-16 Vdc
	WORKING TEMPERATURE	-40°C ÷ 120°C
	ENTRY CONNECTION	60 e 48 PIN
	DIMENSION	220x189x43 mm

<b>RAIL INJECTORS</b>	<b>GI25</b>	
	INJECTOR TYPE	Normally closed
	CLASS IP	IP54
	CONNECTOR	AMP-TYCO JPT (BOSCH)
	WORKING TEMPERATURE	-30°C ÷ 95°C
	WORKING PRESSURE (RELATIVE)	Max 3bar
	VOLTAGE - CURRENT WORKING	8,5/16 V - 1,5 A
	OPENING - CLOSING TIME	1,7 ms - 1,55 ms

<b>SWITCH</b>	<b>SQUARE</b>
	<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.	kW	PRESSURE REGULATOR	ECU	RAIL
KIT LPG 5-8C LI10M OMEGAS DIRECT 1.0	5-8	180 - 200	LI10M	OMEGAS DIRECT 1.0	GI25
MINIKIT LPG 5-8C LI10M OMEGAS DIRECT 1.0	5-8	180 - 200	LI10M	OMEGAS DIRECT 1.0	GI25