

KIT OMEGAS (4 cyl.)



FEATURES

The principal Landi Renzo natural gas system, and the most popular with automakers all over the world.

Careful selection of the components that go into the OMEGAS system guarantees excellent performance and makes the vehicle a pleasure to drive on any kind of road and in all weather conditions. The system passes the strictest durability tests, guaranteeing maximum efficiency over time.

The OMEGAS natural gas system meets the requirements of Euro 6 standards governing polluting emissions.

The system has OBDII connectivity via the K and CAN protocols for precise, advanced diagnostics of the natural gas system. The electronic control unit permits acquisition, monitoring and management of a variety of parameters on the gas system.

The OMEGAS system supports the LANDIRENZO CONNECT app. The app dialogues with the natural gas control unit via smartphone, providing information on consumption, autonomy, emissions and more.

COMPOSITION

KIT

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

* Uncouple wiring harness injectors exclusion not included in kit

MINIKIT

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

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) 59612 CNG Injection systems Euro 5 - 6 for power (kW / cylinder) from 12kW to 26kW / 27kW to 45kW
 DGM (Italy) 59673 CNG aspirated systems Euro 3 - 4 for power (kW / cylinder) from 600cc a 3490cc (only G125 injectors)
 R115 005991 CNG turbo and aspirated systems Euro 6 for engine power (kW / cylinder) from 15,4kW to 25,3kW
 (only for list of vehicles and kits on certificated R115)

COMPONENTS

PRESSURE REGULATOR	NG1	PRESSURE REGULATOR	NG2	
	NOMINAL OPERATING	22 Kg	NOMINAL OPERATING	40 Kg
	OPERATING PRESSURE	2 bar	OPERATING PRESSURE	2 bar
	PRESSURE SETTING SAFETY VALVE	3,2 bar	PRESSURE SETTING SAFETY VALVE	18 bar
	WORKING TEMPERATURE	-40°C ÷ 120°C	WORKING TEMPERATURE	-40°C ÷ 120°C
	ELECTRIC FEATURES COIL SOLENOID	12V - 11W	ELECTRIC FEATURES COIL SOLENOID	12V - 20W
				

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"> • gas / gasoline switch and indication fuel in use by means of two LEDs • display of the quantity of gas present in the tank using 5 LEDs. <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 CNG 2-4C OMEGAS 4.0 NG1	2-4	110	NG1	OMEGAS 4.0	GIRS12
KIT CNG 2-4C OMEGAS 4.0 NG2	2-4	160	NG2	OMEGAS 4.0	GIRS12
MINIKIT CNG 2-4C OMEGAS 4.0 NG1	2-4	110	NG1	OMEGAS 4.0	GIRS12
MINIKIT CNG 2-4C OMEGAS 4.0 NG2	2-4	160	NG2	OMEGAS 4.0	GIRS12