

KIT OMEGAS DIRECT (4 cyl.)



FEATURES

The LANDIRENZO OMEGAS DIRECT system represents a new evolution of the conventional sequential natural gas system: it was designed for conversion of direct injection engines to LPG, an increasingly popular fuel.

The LANDIRENZO LPG system cuts polluting emissions, helping to improve air quality and guaranteeing compliance with increasingly strict environmental standards.

Advanced technology permits the Omegas Direct system to guarantee high performance while preserving the engine over the years. The latest generation injector rail is safe because it guarantees accurate fuel dosage to optimise combustion.

The Omegas Direct LPG system interacts with the petrol system and offers OBDII connectivity via the K and CAN protocols for advanced gas system diagnostics.

Omegas Direct is available in several different versions to adapt to vehicles with different cubic capacities, including turbo engines.

COMPOSITION

KIT

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

MINIKIT

- PRESSURE REGULATOR
- CNG PRESSURE SENSOR
- 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) 59612 CNG Injection systems Euro 5 - 6 for power (kW / cylinder) from 12 kW to 26 kW / 27 kW to 45 kW

DGM (Italy) 59673 CNG aspirated systems Euro 3 - 4 for power (kW / cylinder) from 1190 cc to 1990 cc (only G125 injectors)


DGM (Italy) 59652 CNG turbo engines systems Euro 3 - 4 for power (kW / cylinder) from 890 cc a 2480 cc (only G125 injectors)

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	12 V - 11 W	ELECTRIC FEATURES COIL SOLENOID	12 V - 20 W

ECU	OMEGAS DIRECT 3.0	ECU	OMEGAS DIRECT 1.0	
	CLASS IP	IP6K9K	CLASS IP	IP6K9K
	VOLTAGE POWER	10-16 Vdc	VOLTAGE POWER	10-16 Vdc
	WORKING TEMPERATURE	-40°C ÷ 120°C	WORKING TEMPERATURE	-40°C ÷ 120°C
	ENTRY CONNECTION	60 PIN	ENTRY CONNECTION	60 e 48 PIN
	DIMENSION	196x163x43 mm	DIMENSION	220x189x43 mm

RAIL INJECTORS	GIRS12	RAIL INJECTORS	GI25	
	INJECTOR TYPE	Normally closed	INJECTOR TYPE	Normally closed
	CLASS IP	IP54	CLASS IP	IP54
	CONNECTOR	MTA HP6	CONNECTOR	Tyco JPT
	WORKING TEMPERATURE	-30°C ÷ 95°C	WORKING TEMPERATURE	-30°C ÷ 95°C
	WORKING PRESSURE (RELATIVE)	Max 3bar	WORKING PRESSURE (RELATIVE)	Max 3bar
	VOLTAGE - CURRENT WORKING	9/16 V - 1,5 A	VOLTAGE - CURRENT WORKING	8,5/16 V - 1,5 A
	OPENING - CLOSING TIME	1,9 ms - 2,0 ms	OPENING - CLOSING TIME	1,5 ms - 1,55 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 DIRECT 3.0	2-4	110	NG1-1.6	OMEGASDIRECT3.0	GIRS12
KIT CNG 2-4C NG2 OMEGAS DIRECT 3.0	2-4	160	NG2-1.6	OMEGASDIRECT3.0	GIRS12
KIT CNG 2-4C OMEGAS DIRECT 3.0	2-4	110	NG1-1.6	OMEGASDIRECT3.0	GI25
KIT CNG 2-4C OMEGAS DIRECT	2-4	110	NG1-1.6	OMEGASDIRECT	GI25
KIT CNG 2-4C NG1 OMEGAS DIRECT 1.0	2-4	110	NG1-1.6	OMEGASDIRECT1.0	GI25
KIT CNG 2-4C NG2 OMEGAS DIRECT 1.0	2-4	160	NG2-1.6	OMEGASDIRECT1.0	GI25
MINIKIT CNG 2-4C OMEGAS DIRECT 3.0	2-4	110	NG1-1.6	OMEGASDIRECT3.0	GIRS12
MINIKIT CNG 2-4C NG2 OMEGAS DIRECT 3.0	2-4	160	NG2-1.6	OMEGASDIRECT3.0	GIRS12
MINIKIT CNG 2-4C OMEGAS DIRECT 3.0	2-4	110	NG1-1.6	OMEGASDIRECT3.0	GI25
MINIKIT CNG 2-4C OMEGAS DIRECT	2-4	110	NG1-1.6	OMEGASDIRECT	GI25