Fiat Automobil AG

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 7 28 711

 Ersatzteile-Direktion Kundendienst
 1637 93
 7 28 603

 Kundendienst
 1637 93
 7 28 447

Bankkonto:

Baden-Württ. Bank AG, Heilbronn (BLZ 62030050) Konto.-Nr. 7002365000 Commerzbank AG, Heilbronn (BLZ 62040060) Konto.-Nr. 2100600 Deutsche Bank AG, Heilbronn (BLZ 62070081) Konto.-Nr. 169425 Dresdner Bank AG, Heilbronn (BLZ 62080012) Konto.-Nr. 7007085 Postgiroamt Stuttgart (BLZ 60010070) Konto.-Nr. 11529-708

2 (07131) 107-0 Durchwahl 107-

Heilbronn, Salzstraße 140

283

21.04.1988

Ihre Zeichen, Ihre Nachricht vom

Unsere Zeichen

telef. 21.04.88

TTO-dr 8503H

Zulassung von Fahrzeugen Modell 124 Spider (US-Ausführung) Typ 124 CS1 im Geltungsbereich der StVZO

Sehr geehrter Herr Ottenstreuer!

Die Motore 132 Al.031.5 und 132 Al.031.6 sind völlig identisch. Bei der abweichenden letzten Ziffer handelt es sich lediglich um ein Produktionskennzeichen.

Der Motortyp 132 Al.031.6 ist wiederum, was die technischen Daten betrifft – ausgenommen der Motorleistung (da unterschied-liche Vergaser) – identisch mit dem Motor-Typ 132 Al.040.6. Aus diesem Grunde senden wir Ihnen anliegend auszugsweise aus der Betriebsanleitung die kompletten Daten des Motors 132 Al.040.6 und als Beilage die abweichenden Daten des Motors 132 Al.031.6. Die Unterlagen können Sie für das von Ihnen angefragte Fahrzeug für die Zulassung anwenden.

Hinsichtlich des Abgasverhaltens erhalten Sie anbei das entsprechende Certificate of Conformity Nr. FIAT-LDV-4 vom 05.11.1976 sowie Nr. FIAT-LDV-5 vom 09.09.1977.

Mit freundlichen Grüßen

Fiat Automobil AG

i.V.

i.A.

W. Bechtold

K. Dannenhauer

Anlagen

FIAT LANCIA

Vorsitzender des Aufsichtsrates: Josef Ferdinand Graf von Oppersdorff Vorstand: Fausto Gardoni, Vorsitzender: Franz Hink, stellvertr. Vorsitzender Mitglieder: Reinhard Bley, Dr. Adriano Frascaroli, Gerhard Katscher Sitz der Gesellschaft: Heilbronn – Handelsregister Heilbronn HRB 257

Flat 124 Sport Spider

Catalytic Converter Version

The previous sections should be consulted for all items not covered in this section

-in, fully laden m.p.h.

. . 75

105

le, fully laden
50%
50%
15%
15%
10%
8%

. . . 2 250 lbs stal 430 lbs): 30 lbs of luggage
) . . 2 680 lbs sity . 2 persons
. . . 2 in front

:ATIONS

AE net 83 HP

ER 32 ADFA 14

SYSTEM

or diverter valve
g of electrovalve for

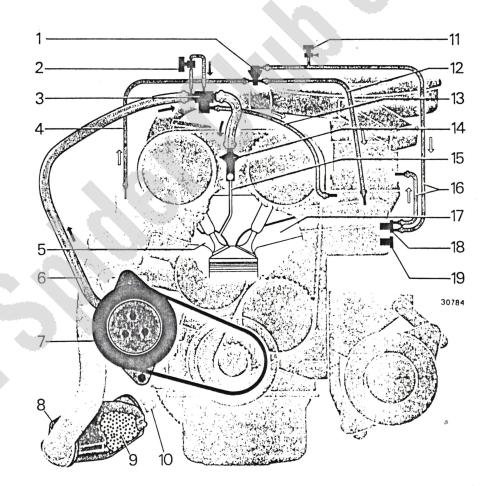
2 260 lbs (total 430 lbs):
) lbs) + 130 lbs of

ully laden) 2690 lbs

Exhaust Emission Control System

A catalytic converter has been added to further oxidize the hot gases during post-combustion process.

1. Exhaust gas recirculation (EGR) control valve - 2. Electrovalve, normally closed, for diverter valve - 3. Diverter valve - 4. Exhaust gas recirculation tapping line - 5. Exhaust manifold - 6. Air distribution line - 7. Air pump - 8. Catalytic converter 9. Inner pellets - 10. Exhaust pipe - 11. EGR cut-out thermovalve on 5th gear - 12. Exhaust gas feedback line - 13. Vacuum tapping line, intake manifold, for diverter valve - 14. Air injection non-return valve - 15. Air injector - 16. Vacuum tapping line, carburetor, for EGR valve - 17. Intake manifold - 18. EGR thermovalve - 19. Electrovalve 2 thermostatic switch.



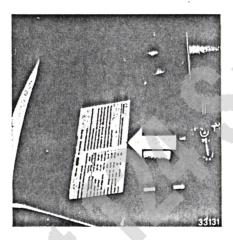
IDENTIFICATION DATA

Engine Type 132 A1.031.6

■ Vehicle Emission Control Information Label - Located on left door pillar.

■ E.P.A. and California Regulations Conformity Tag

Engine family 132 C.C. air pollution control specifications for correct engine tuneups and adjustments.





OPERATION

WARNING

Fuel Refilling

Strictly adhere to the label on glove compartment lid and on filler cap.

UNLEADED FUEL ONLY

Leaded fuel will damage the catalytic converter beyond repair. Always refill at Service Stations which carry unleaded fuel (small pump nozzle).

SPECIFICATIONS

ENGINE

Max. power - SAE net 83 HP

Fuel System

Carburetor: WEBER 32 ADFA 14

ELECTRICAL SYSTEM

Fuses

Fuse A also protects:

- Electrovalve for diverter valve
- Relay winding of electrovalve for diverter valve

WEIGHTS

Gross weight (fully laden) 2 690 lbs

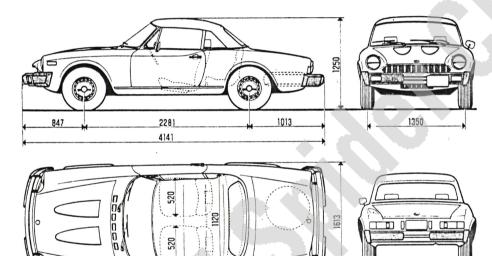
Exhaust En

A catalytic c to further oxi post-combus

1. Exhaust garvalve - 2. El for diverter value - 4. Exhaust ga 5. Exhaust mine - 7. Air r 9. Inner pelle EGR cut-out 12. Exhaust gum tapping li ter valve - 15. Air ping line, car intake manifo 19. Electrova

MAIN DIMENSIONS

Ī	mm	520	847	1 013	1120	1 250	1 320	1 350	1 613	2 281	4141
	in.	20.5	33.4	39.9	44	49.2	52	53.2	63.5	89.7	163



Overall height is measured with unladen car. Trunk volume: 180 cu. dm (6.4 cu. ft). Occupant distribution 2 in front

PERFORMANCE

Speeds

IVI	axiii	Tutti S	De	JUS	d	le	D	169	IK-	ın,	Iu	пу	lader
													m.p.h
	1st	gear											28
	2nd	gear											50
		gear											
	4th	gear											102
	5th	gear.	01	/er									105

Gradeability

Maxin	num	gr	ad	es	С	lim	ba	ble	Э,	fu	lly	laden
1st	gear											50%
2nd	gear	٠.										25%
3rd	gear											15%
4th	gear											10%
5th	gear											8%

WEIGHTS

Curb weight 2 250 lbs	1021,5kg
Vehicle load capacity (total 430 lbs): 2 adults (300 lbs) $+$ 130 lbs of luggage	,
Gross weight (fully laden) 2 680 lbs	
Designated seating capacity . 2 persons	
Occupant distribution 2 in front	

48

nchored to body through 5
- 4 longitudinal and 1 transsprings, hydraulic doublepic shock absorbers. Asymmotions stabilized by elastic faction rods.

G AND WHEELS

screw and roller, ratio 1/16.4. in three sections, incorporatniversal joints; breakaway and symmetric track rods to with central link rod. Seal-articulations.

uble-acting damper on relay
. 10.4 m
(34 ft 2 in.)
amber, measur-

0 to 6 mm (.00 to .24 in.) or 30' ± 30'

pe-in, measured 3 \pm 2 mm (.118 to .079 in.)

lata apply to cars laden to ent of 2 adults (300 lbs) plus luggage.

nd Tires

ventilated, with 5 J x 13" , ht-alloy wheels. res, size 165 SR-13" or 165 HR-13"

	ELECTRICAL SYSTEM							
	Voltage 12 Volts							
	Alternator							
	Continuous current rating . 55 Amps Incorporated current rectifiers. Automatic voltage regulator. Cut-in speed at starting of engine (with users off).							
	Battery							
ø	With grounded negative; capacity at 20-hr discharge rate 60 Amp.hr. Cold (—18°C) high-discharge test current 255 Amp.							
	Starter							
	Power rating 1.3 kW Direct engagement by solenoid and free-wheeling pinion.							
	Heater Fan Motor							
	Power rating 20 W							
	Engine Radiator Fan Motor							
	Power rating 110 W							
	Windshield Wiper Motor							
	Power rating 28 W							
	Fuses							
	Eight 8-Amp fuses, one 25-Amp and one 16-Amp fuses.							

Bulbs

v	Location	SAE Standard	FIAT Std. Part No.
ı	Location	Standard	Stu. Part No.
	Headlights (high and low beams)	« Sealed Beam »	headlight unit 7031
i	Front lamps turn signal	<u>-</u>	Norm. 1/41460/90
i.	turn signal	No. 1073 (32 cp)	Norm. 1/41469/90
	Front lamps parking	No. 67 (4 cp)	Norm. 1/41459/90
	Courtesy light		12V-5W
	Ideogram illumination optical fiber light source	_	Norm. 1/08630/90 12V-5W
	Turn signal indicator Headlight high beam indicator Battery charge indicator Insufficient oil pressure indicator Fuel reserve indicator Parking and tail lamps indicator Instrument cluster lights Fasten belts indicator Vehicular hazard warning signal indicator Low brake fluid level and hand brake ON indicator Side marker lights	No. 158 (2 cp)	Norm. 1/41441/90 Norm. 1/41458/90 or Norm. 1/41439/90
ſ	Vehicular hazard warning signal switch light	_	12V-1.2W Norm. 1/41437/90
i	Trunk lamp	-	12V-4W Norm. 1/41423/90

Ignition System

Firing order	1-3-4-2
Basic ignition timing at 850 rpm	0º (TDC)
Automatic advance	360
Dwell angle, for distributor	
contacts gap check	
(at 850 \pm 50 rpm)	55°
Breaker additional points gap	
.3149 mm (.012	019 in.)

Spark plugs:

standard	d type	resistor type					
CHAMPION AC DELCO MARELLI BOSCH	N9 Y 42-XLS CW 7LP W 7D	CHAMPION AC DELCO MARELLI BOSCH	RN9 Y R42-XLS CW 7LPR WR 7D				
Thread size		,	1.25 mm				
- standard	- standard type .6 to .7 mm (.023027 in.)						

-- resistor type .7 to .8 mm (.027 - .031 in.)

POWER TRAIN

Clutch

Single plate, dry, with disk engagement spring, mechanically controlled.

Pedal free travel . . abt. 25 mm (1 in.)

Transmission

Five forward speeds (all synchronized) and reverse.

Gear ratios to 1:

1st	2nd	3rd	4th	5th	Reverse
3.667	2.1	1.361	1	0.881	3.526

Propeller Shaft

Tubular propeller shaft in two sections, with rubber mounted central pillow block. Front section connected to transmission by flexible joint and slip yoke. The second section is connected to the first and to rear axle by universal joints.

Rear Axle

BRAKES

Service

Hydraulic disk brakes, of the floating caliper type, on all wheels, with one cylinder to each wheel, pedal operated through vacuum servo and dual master cylinder. Independent front and rear circuits.

Proportioning valve in rear circuit for car load and deceleration rate variation compensations.

Device for automatic take-up of friction pad clearance as wear progresses.

Parking

Mechanical, operating on rear wheel brake

SUSPENSIONS

Front

Independent wheels, by swinging arms, with coil springs and hydraulic, double-acting telescopic shock absorbers. Stabilizer bar. Sealed-for-life articulations.

Rear

By rigid axle anchored to body through 5 reaction rods - 4 longitudinal and 1 transversal. Coil springs, hydraulic double-acting telescopic shock absorbers. Asymmetric wheel motions stabilized by elastic mounts of reaction rods.

STEERING AND WHEELS

Steering

Standard L.H.D. Control: worm screw and roller, ratio 1/16.4. Steering shaft in three sections, incorporating two universal joints; breakaway mount.

Independent and symmetric track rods to each wheel, with central link rod. Sealed-for-life articulations.

Hydraulic, double-acting damper on relay support.

Turning circle 10.4 m (34 ft 2 in.)
Front wheel camber, measur-

ed at rim 0 to 6 mm (.00 to .24 in.) or $30' \pm 30'$

The above data apply to cars laden to the equivalent of 2 adults (300 lbs) plus 130 lbs of luggage.

Wheels and Tires

Disk wheels, ventilated, with rim size 5 J x 13"
Optional: light-alloy wheels.
Radial-ply tires, size . . . 165 SR-13"
or 165 HR-13"

ELECTRI

Voltage . . .

Alternator

Continuous cu Incorporated c Automatic volt Cut-in speed a users off).

Battery

With grounded discharge rat Cold (—18°C) test current

Starter

Power rating Direct engagen wheeling pin

Heater Fan
Power rating

Engine Radi

Power rating

Windshield
Power rating

Fuses

Eight 8-Amp f

finish with a coat of ne wax.

ight metal parts with a make of car chrome

e wiper blades to preubber from distorting. car using a non-plastics

s to be left in the open derside and the entire rtment with an approved vant, **PROT V** or equispray a hot engine.

rting a sprayed engine d and wait for at least

sing the car following a iod of inactivity perform operations:

e chrome preservant from netal parts.

car.

engine oil.

viper blades.

viper blades.

tire inflation pressures that of the spare wheel).

SPECIFICATIONS

ENGINE

Туре	A1.040.
Number of cylinders, in line	
Bore and stroke 84 x (3.31 x	79.2 mn 3.12 in.
Total piston displacement . (107.1	1756 c 3 cu. in.
Compression ratio Maximum power (SAE net)	8 to 1
maximam power (or in more)	00

Valve Gear

Exhaust . . .

O. H. V. Twin O. H. camshafts driven toothed timing belt with tensioner.	γ
Opens: B.T.D.C.	50
Intake { Opens: B.T.D.C. Closes: A.B.D.C. 5	30
	30
Exhaust { Opens: B.B.D.C. 5 Closes: A.T.D.C.	50
Tappet clearance adjust- ment, for valve timing80 m (.031 in	
Final tappet operation clearance adjustment, cold engine:	t-
Intake	

.50 mm

(.020 in.)

Lubrication System

Forced circulation by gear pump.

Pressure limiter valve on delivery circuit.

Normal lubrication pressure at rated engine rpm and oil temperature
4.5 to 6 kg/cm² (64 to 85.3 psi)

Full-flow cartridge oil filter.

Fuel System

Vertical dual-barrel downdraft WEBER 32 ADFA 11 carburetor with differential opening of secondary throttle, automatic butterfly valve choke and accelerating pump. Idle stop device (comes into operation when engine is switched off).

A vacuum bellows controls the partial opening of the 1st barrel throttle from the idling position (fast idle operation setting adjustment).

Fuel filter and pressure regulator in the feed line from pump to carburetor.

Paper cartridge air cleaner with silencer.

Carburetor feed by mechanical pump.

Emission Control Systems

Engine feed system provided with fuel recirculation (closed circuit) and evaporative emission control system.

Crankcase emission control (CEC) system (closed circuit) by recirculation of blow-by gases and oil vapors.

Exhaust emission control system (reduces air pollution from the exhaust by gas recirculation and post-combustion process) separate from the CEC system.

Cooling System

Radiator and translucent expansion tank.

Water circulated by centrifugal pump.

Thermostat with controlled by-pass on cylinder head water outlet duct.

Four-blade fan driven by electric motor controlled by thermostatic switch on radiator; cut-in temperature about 90° C.

Fish Automobil AG U.S. ENVIRONMENTAL PROTECTION AGENCY Hauptabteilung TERTIFICATE of CONFORMITY

WITH THE CLEAN AIR ACT OF 1970 ISSUED TO:

Fiat S.p.A. Corso Giovanni Agnelli, 200 10100 Torino, Italy

Pursuant to section 206 of the Clean Air Act (42 U.S.C.1857f-5) and 40 CFR Part 86, this Certificate of Conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Part 86) and which represent the following models of new motor vehicles, by engine family, more fully described in the application of the above named manufacturer:

The following vehicles are certified as having demonstrated conformance with Federal emission standards only at elevations equal to or lower than 1,219 meters (4,000 feet):

131 Mirafiori-4 door, 131 Mirafiori-2 door, 131 Estate, 124 Sport Spider 1800, Lancia Beta 1800 Sedan, Lancia Beta 1800 Coupe', Lancia Beta 1800 HPE, Lancia Beta Scorpion.

This Certificate covers engine family 132-CC1, including 107.13-CID engines with air injection, exhaust gas recirculation, catalytic converter, carbon canister, and closed crankcase emission control systems, meeting emission standards specified in 40 CFR 86.077-8(a)(2), 86.077-8(b), and 86.077-8(c). These vehicles are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded gasoline. This Certificate is issued subject to the conditions specified in 40 CFR 80.24.



This Certificate covers only those new motor vehicles which conform, in all material respects, to the design specifications that applied to those vehicles described in the Application for Certification and which are produced during the 1977 model year production period of the said manufacturer, as defined in 40 CFR 86.077-2(b).

It is a term of this Certificate that the manufacturer shall consent to all inspections described in 40 CFR 86.077-7(c) which concern either the vehicle certified, or any production vehicle covered by this Certificate, or any production vehicle which when completed will be claimed to be covered by this Certificate. Failure to comply with all the requirements of §86.077-7(c) with respect to any such vehicle may lead to revocation or suspension of this Certificate as specified in 40 CFR 86.077-30(c). It is also a term of this Certificate that this Certificate may be revoked or suspended for the other reasons stated in §86.077-30(c) or (d).

Catalyst-equipped vehicles, otherwise covered by this Certificate, which are driven outside the United States, Canada, and Mexico will be presumed to have been operated on leaded gasoline resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this Certificate unless included in a catalyst control program operated by a manufacturer or a United States Government Agency and approved by the Administrator.

Fiat-LDV-4
Certificate No.

November 5, 1976
Date

James M. Margen Office of Air and Waste Management

CERTIFICATE OF CONFORMITY

WITH THE CLEAN AIR ACT OF 1970 ISSUED TO:

FIAT S.p.A. Corso Giovanni Agnelli, 200 10100 Torino, Italy

Pursuant to section 206 of the Clean Air Act (42 U.S.C. 1857f-5) and 40 CFR Part 86, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Part 86) and which represent the following models of new motor vehicles, by engine family and evaporative emission family, more fully described in the application of the above named manufacturer:

The following vehicles are certified as having demonstrated conformance with Federal emission standards only at elevations equal to or lower than 1,219 meters (4,000 feet):

FIAT: 131 Mirafiori - 2 door, 131 Mirafiori - 4 door, 131 Estate, 124 Sport Spider 1800.

This certificate covers engine family 132-CCl/evaporative emission family EVAP 2C, including 107.13-CID engines with air injection, exhaust gas recirculation, catalytic converter, charcoal canister, and closed crankcase emission control systems, meeting emission standards specified in 40 CFR 86.078-8(a), 86.078-8(b), and 86.078-8(c). These vehicles are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded gasoline. This certificate is issued subject to the conditions specified in 40 CFR 80.24.

This certificate covers only those new motor vehicles which conform, in all material respects, to the design specifications that applied to those vehicles described in the application for certification and which are produced during the 1978 model year production period of the said manufacturer, as defined in 40 CFR 86.078-2.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 86.078-7(c) which concern either the vehicle certified, or any production vehicle covered by this certificate, or any production vehicle which when completed will be claimed to be covered by this certificate. Failure to comply with all the requirements of \$86.078-7(c) with respect to any such vehicle may lead to revocation or suspension of this certificate as specified in 40 CFR 86.078-30(c). It is also a term of this certificate that this certificate may be revoked or suspended for the other reasons stated in \$86.078-30(c) or (d).

Catalyst-equipped vehicles, otherwise covered by this certificate, which are driven outside the United States, Canada, and Mexico will be presumed to have been operated on leaded gasoline resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by a manufacturer or a United States Government Agency and approved by the Administrator.

FIAT-LDV-5
Certificate No.

September 9, 1977

Date

Office of Air and Waste Management

