

# DUCATO

## PASSENGER TRANSPORT



TECHNICAL SPECIFICATIONS AND EQUIPMENT



# TECHNICAL SPECIFICATIONS.

## FIAT DUCATO COMBI - MINIBUS

Engine	100 MultiJet
No. of cylinders, arrangement	4, in line
Displacement (cc)	2198
Compression ratio	17.5:1
Max. power output: kW-EC (bhp-EC) at rpm	74 (100) 2900
Peak torque: Nm-EC (kgm-EC) at rpm	250 (25.5) 1500
Ecology level	Euro 4
Timing system (control)	2 OHCs (chain)
Fuel feed	"Common Rail" electronically controlled direct injection with fixed geometry turbocharger and intercooler
Ignition	By compression

Transmission	100 MultiJet
Drive	Front
Clutch	Single plate with hydraulically operated release
Gearbox, no. of speeds	5 + reverse
Gear ratios	3.727 : 1
1 <sup>st</sup>	1.952 : 1
2 <sup>nd</sup>	1.290 : 1
3 <sup>rd</sup>	0.875 : 1
4 <sup>th</sup>	0.647 : 1
5 <sup>th</sup>	-
6 <sup>th</sup>	3.154 : 1
reverse	4.933 : 1 (74/15)
Final ratio	

Steering system	100 MultiJet
Type	Rack and pinion with power steering
Steering diameter (kerb to kerb)	Short wheelbase m 11 – Medium wheelbase m 12.46 – Long wheelbase m 14.28

Braking system - D (disk)	100 MultiJet
Type	H-I dual circuit; front and rear disc brakes. ABS and electronic brakeforce distributor (EBD)
Front: Ø mm	D 280 self-ventilating
Rear: Ø mm	D 280
Brake servo: Ø	11"

Suspension system	100 MultiJet
Front	McPherson type, independent wheel, with trailing arms, helical springs, telescopic shock absorbers and roll bar
Rear	Tubular rigid axle and longitudinal parabolic leaf springs, telescopic shock absorbers, elastic lateral stoppers and roll bar


Wheels	100 MultiJet
Tyres	215/70 R 15 C (225/70 R 15 C option). Maxi: 215/75 R 16 C (225/75 R 16 C option)

Electrical system (12v)	100 MultiJet
Battery capacity (Ah)	95

Weights - Tank capacity	100 MultiJet
Max. towable weight (braking) (kg)	2000
Tank capacity (litres)	90

Performance	100 MultiJet
Top speed <sup>▲</sup> (mph)	81 - 87

<sup>▲</sup>Min. and max. values depending on model and version. Maximum speed is 62 mph with the speed limiter fitted. Mandatory on minibuses.

Fiat recommends  SELENIA engine oil, PARAFILU coolants, TUTELA functional fluids.

120 MultiJet	160 MultiJet Power
4, in line	4, in line
2287	2999
19:1	19:1
88 (120) 3600	115 (157) 3500
320 (32.6) 2000	400 (40.7) 1700
Euro 4	Euro 4
2 OHCs (toothed belt)	2 OHCs (chain)
"Common Rail" electronically controlled direct injection with fixed geometry turbocharger and intercooler	"Common Rail" electronically controlled direct injection with fixed geometry turbocharger and intercooler
By compression	By compression

120 MultiJet	160 MultiJet Power
Front	Front
Single plate with hydraulically operated release	Single plate with hydraulically operated release
6 + reverse	6 + reverse
3.727 : 1	4.167 : 1
1.952 : 1	2.350 : 1
1.290 : 1	1.462 : 1
0.875 : 1	0.955 : 1
0.673 : 1	0.695 : 1
0.585 : 1	0.552 : 1
4.083 : 1	4.083 : 1
4.222 : 1 (76/18)	4.222 : 1 (76/18)
5.231 : 1 (68/13) Maxi	4.563 : 1 (73/16) Maxi

120 MultiJet	160 MultiJet Power
Rack and pinion with power steering	Rack and pinion with variable power steering (Servotronic)

120 MultiJet	160 MultiJet Power
H-I dual circuit; front and rear disc brakes. ABS and electronic brakeforce distributor (EBD)	H-I dual circuit; front and rear disc brakes. ABS and electronic brakeforce distributor (EBD)
D 280 self-ventilating	D 280 self-ventilating
D 300 self-ventilating Maxi	D 300 self-ventilating Maxi
D 280	D 280
11"	11"

120 MultiJet	160 MultiJet Power
McPherson type, independent wheel, with trailing arms, helical springs, telescopic shock absorbers and roll bar	McPherson type, independent wheel, with trailing arms, helical springs, telescopic shock absorbers and roll bar
Tubular rigid axle and longitudinal parabolic leaf springs, telescopic shock absorbers, elastic lateral stoppers and roll bar	Tubular rigid axle and longitudinal parabolic leaf springs, telescopic shock absorbers, elastic lateral stoppers and roll bar

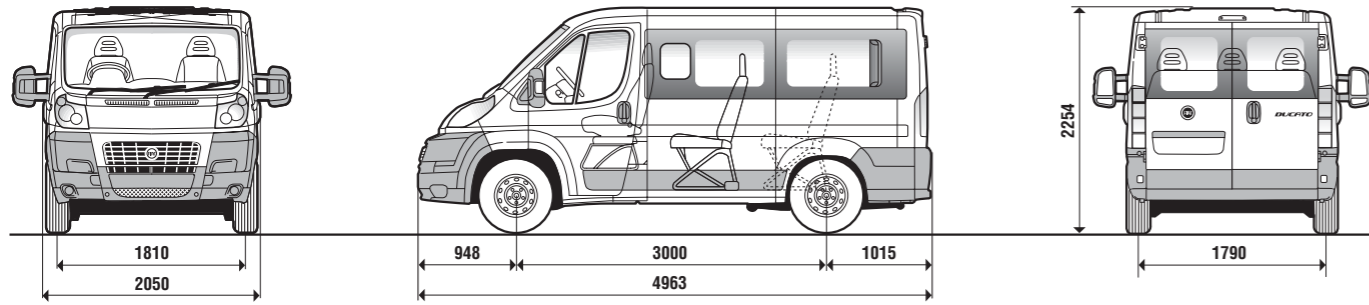
120 MultiJet	160 MultiJet Power
215/70 R 15 C (225/70 R 15 C option). Maxi: 215/75 R 16 C (225/75 R 16 C option)	215/70 R 15 C (225/70 R 15 C option). Maxi: 215/75 R 16 C (225/75 R 16 C option)

120 MultiJet	160 MultiJet Power
95	110

120 MultiJet	160 MultiJet Power
2500	2500
90	90

120 MultiJet	160 MultiJet Power
90 - 96	96 - 103

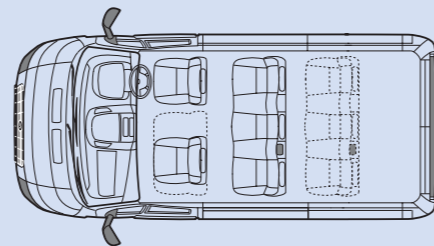
# COMBI.



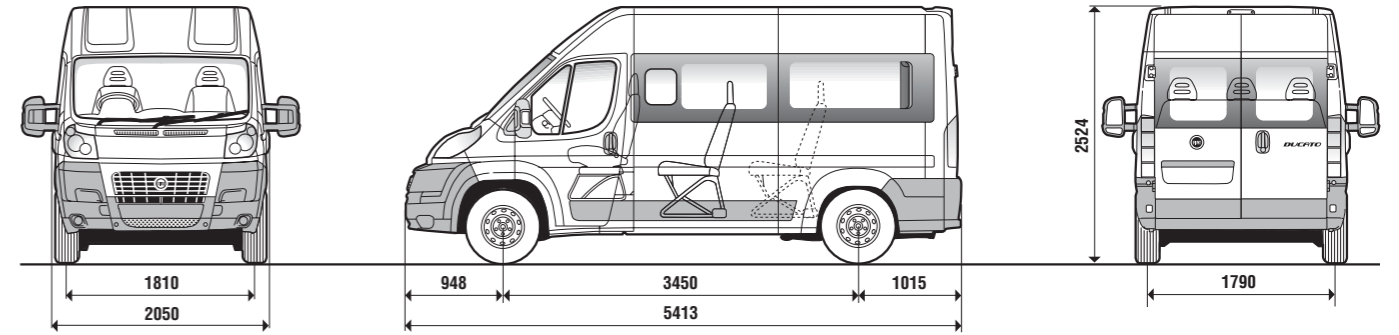
Dimensions (mm)	Combi 33
Wheelbase	3000
Maximum length	4963
Maximum width	2050
Front track	1810
Rear track	1790
Maximum height (unladen)	2254
Front overhang	948
Rear overhang	1015
<b>Rear door</b>	
Width	1562
Height	1520
<b>Side door</b>	
Width	1075
Height	1485
<b>Loading compartment</b>	
Length	1716 (5/6 seats) - 816 (8/9 seats)
Width	1860
Width between wheelarches	1254
Height	1515

3000 mm wheelbase	Combi 33	
Engines	100 MultiJet	120 MultiJet
Vehicle weight* (unladen) (kg)	1935	1950
Payload including driver (kg)	1365	1350
	5 seats + 1025 kg	5 seats + 1010 kg
	9 seats + 753 kg	9 seats + 738 kg
GVW (kg)	3300	3300
Top speed (mph)	87 <sup>▲</sup>	96 <sup>▲</sup>
Fuel consumption* (mpg)	8.2 / 6.8 / 7.3	8.3 / 6.5 / 7.2
urban / extra-urban / combined	(34.4 / 41.5 / 38.7)	(34.0 / 43.5 / 39.2)

\*Ready for the road, with water, fuel, oil, spare wheel, tools and accessories  
 ▲Maximum speed is 62 mph with the speed limiter fitted.  
 ♦ 1999/100 EC directive



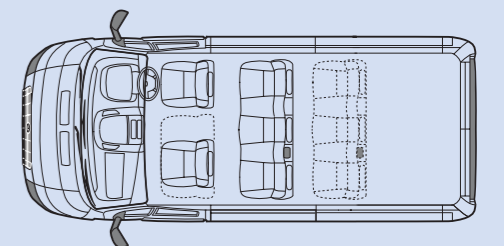
# HIGH COMBI.



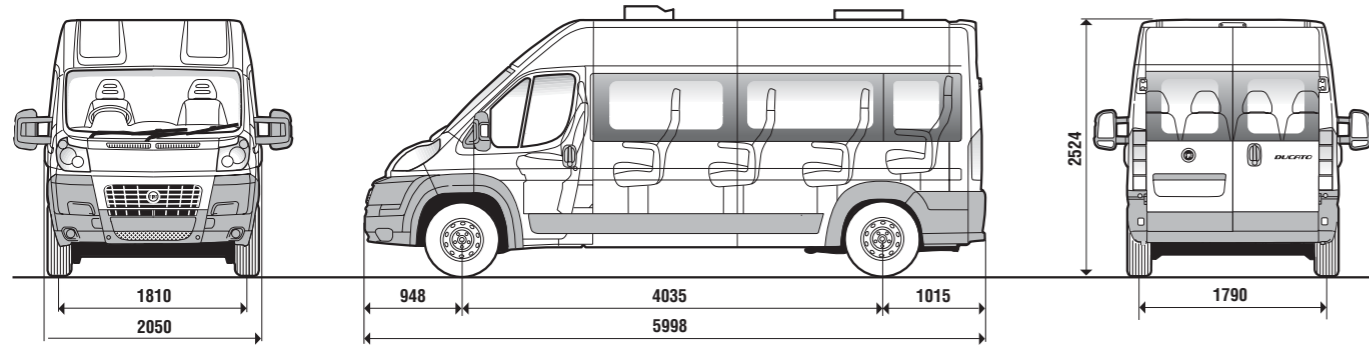
Dimensions (mm)	High Combi 33
Wheelbase	3450
Maximum length	5413
Maximum height	2050
Front track	1810
Rear track	1790
Maximum height (unladen)	2524
Front overhang	948
Rear overhang	1015
<b>Rear door</b>	
Width	1562
Height	1790
<b>Side door</b>	
Width	1250
Height	1755
<b>Loading compartment</b>	
Length	2159 (5/6 seats) - 1259 (8/9 seats)
Width	1860
Width between wheelarches	1254
Height	1788

3450 mm wheelbase	High Combi 33	
Engines	120 MultiJet	
Vehicle weight* (unladen) (kg)	2060	
Payload including driver (kg)	1240	
	5 seats + 900 kg	
	9 seats + 628 kg	
GVW (kg)	3300	
Maximum speed (mph)	93 <sup>▲</sup>	
Fuel consumption* (mpg)	8.8 / 6.8 / 7.5	
urban / extra-urban / combined	(32.1 / 41.5 / 37.7)	

\*Ready for the road, with water, fuel, oil, spare wheel, tools and accessories  
 ▲Maximum speed is 62 mph with the speed limiter fitted.  
 ♦ 1999/100 EC directive



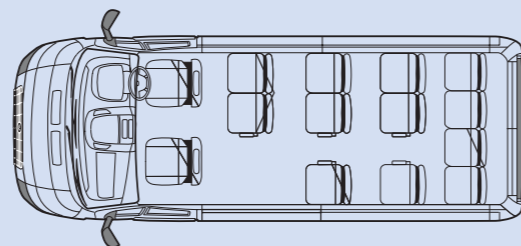
## MINIBUS 13 SEATS + DRIVER.



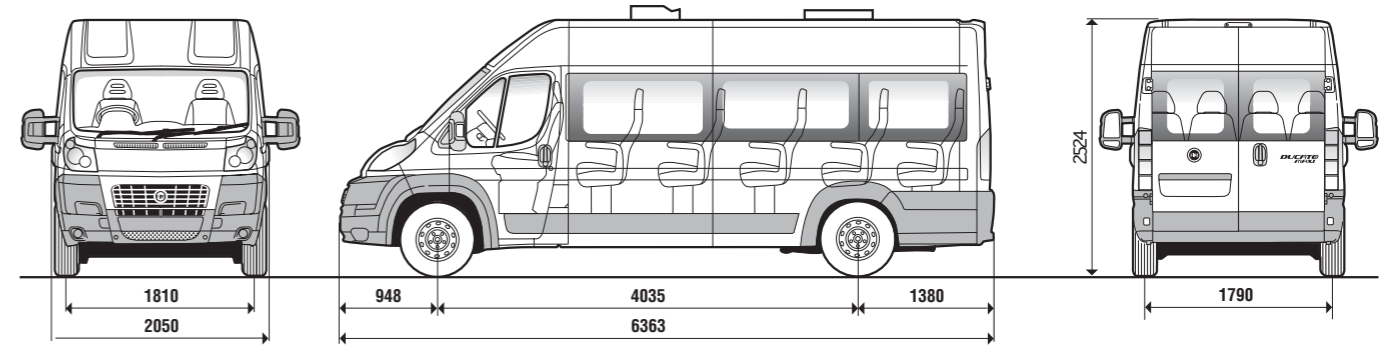
Dimensions (mm)	Maxi Minibus 40	
	13 seats + 1	
Wheelbase	4035	
Maximum length	5998	
Maximum width	2050	
Front track	1810	
Rear track	1790	
Maximum height (unladen)	2524	
Front overhang	948	
Rear overhang	1015	
<b>Rear door</b>		
Width	1562	
Height	1790	
<b>Porta laterale</b>		
Width	1250	
Height	1755	

4035 mm wheelbase	Maxi Minibus 40	
	13 seats + 1	13 seats + 1
Engines	120 MultiJet	160 MultiJet
Vehicle weight* (unladen) (kg)	2520	2570
Payload (kg)	1485	1435
	13 seats + driver + 487 kg	13 seats + driver + 437 kg
GVW (kg)	4005	4005
Maximum speed (mph)	62 <sup>▲</sup>	62 <sup>▲</sup>

\*Ready for the road, with water, fuel, oil, spare wheel, tools and accessories  
<sup>▲</sup>Maximum speed is 62 mph with the speed limiter fitted. Mandatory on minibuses.



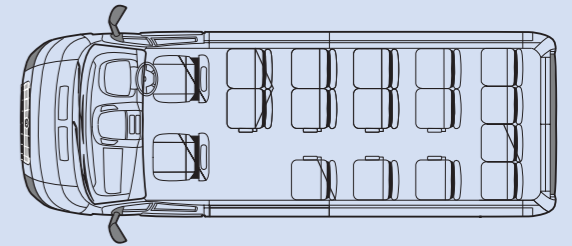
## MINIBUS 16 SEATS + DRIVER.



Dimensions (mm)	Maxi Minibus 40	
	16 seats + 1	
Wheelbase	4035	
Maximum length	6363	
Maximum width	2050	
Front track	1810	
Rear track	1790	
Maximum height (unladen)	2524	
Front overhang	948	
Rear overhang	1380	
<b>Rear door</b>		
Width	1562	
Height	1790	
<b>Porta laterale</b>		
Width	1250	
Height	1755	

4035 mm XL wheelbase	Maxi Minibus 40	
	16 seats + 1	16 seats + 1
Engines	160 MultiJet**	
Vehicle weight* (unladen) (kg)	2775	
Payload (kg)	1425	
	16 seats + driver + 214 kg	
GVW (kg)	4200	
Maximum speed (mph)	62 <sup>▲</sup>	

\*Ready for the road, with water, fuel, oil, spare wheel, tools and accessories  
<sup>▲</sup>Maximum speed is 62 mph with the speed limiter fitted. Mandatory on minibuses.      \*\* with DPF(Diesel Particulate Filter)



# STANDARD EQUIPMENT AND OPTIONS.

## FIAT DUCATO

		Combi	Minibus
<b>Exterior</b>			
Double-parabola halogen headlamps		Standard	Standard
Door mirrors with double support arm and side light		Standard	Standard
Locking fuel cap with cover		Standard	Standard
Integrated fog lights and reversing light		Standard	Standard
Green filter and sensor for water in diesel		Standard	Standard
Black trims on wheel arches for Maxi / Minibus versions		Standard	Standard
Third brake light		Standard	Standard
Glazed rear doors		Standard	Standard
Glazed sliding side door		Standard	Standard
125 litre fuel tank	4G9	•	•
Reflective windscreen	4G1	•	•
Heated rear window on rear glazed double door	029	Standard	Standard
Electric heated mirrors	041	Standard	Standard
Second sliding side door	055	•	–
Comfort suspension	062	•	Standard
Privacy side windows	070	•	•
Fog lights	097	•	•
Headlamp wiper-washer	102	•	•
Alloy wheels	108/208	•	•
Winter tyres	141	•	•
Larger tyres	142	•	Standard
Multiseason tyres	144	•	•
Rear mudguards	197	•	•
Metallic paint	210	•	•
Under-engine sound-proofing element	237	•	•
Electric, folding door mirrors	341	•	•
Retractable footboard on left side sliding door	553	•	Standard
Self-levelling suspension	555	•	•
Glass sliding window in side door	644	Standard	•
Front mudguards	747	•	•
Special wheel trims	878	•	•
<b>Interior</b>			
Axial adjustable steering column		Standard	Standard
Driver's seat adjustable for height		Standard	Standard
Central compartment with lock for 'Note Book' holder		Standard	Standard
Multi-functional dashboard with open trays, glass-holders, cool box and locking glove compartment		Standard	Standard
Cab door panels with door controls and electric windows		Standard	–
Carter seat case	50E	•	Standard
Armrest and lumbar support for driver's seat	132	Standard	Standard
Adjustable passenger seat + armrest	297	Standard	Standard
Two-seater passenger bench with central 3-point belt	293	•	–
Heated passenger seat	452	•	•
Heated driver's seat	453	•	•
Height-adjustable passenger seat	454	•	•
Shock absorbing driver's seat	640	•	•
Special order cloth seat upholstery	728	–	Standard
Under-ceiling shelf	835	•	Standard
3-seater folding and removable bench	965	•	–
<b>Functional / Electrical</b>			
Fiat CODE		Standard	Standard
Power steering (with Servotronic)		Standard	Standard
Display with digital clock and Trip computer		Standard	Standard
Programmed maintenance		Standard	Standard
Cigarette lighter and illuminated 12v socket and ash-tray		Standard	Standard
Speedometer, electronic rev-counter, engine oil level indicator sensor		Standard	Standard

		Combi	Minibus
<b>Functional / Electrical</b>			
Athermic windows		Standard	Standard
Sliding glass panes (second window)		Standard	Standard
Electric front windows		Standard	Standard
Centralised lock with remote		3 buttons	Standard
4 ceiling lights in passenger compartment		Standard	Standard
Double luggage compartment		–	Standard
Manual climate control system	025	•	•
Rain and twilight sensor	051	•	•
"Dead locking" safety locks	064	Standard	Standard
Converter socket and battery housing	081	•	Standard
Automatic unit heater (Webasto)	133	•	Standard
Automatic climate control system	140	•	–
Rear seat climate control	204	•	–
Additional, independent programmable heater	205	•	•
Peripheral + volumetric anti-theft alarm	213	•	•
Rear seat heater	267	•	–
Rear visibility camera	316	•	–
Comfort-Matic	407	–	– / • (160 MultiJet)*
Cruise control	416	•	•
Tyre repair kit (Fix & Go)	499	Standard	–
Rear parking sensors + buzzer	508	•	•
Chronotachograph	650	•	Standard
DPF (Diesel Particulate Filter)	733	• / – (100 MultiJet)	– / •**
More powerful battery	782	•	• / Standard (160 MultiJet)
12-volt power socket in loading compartment	823	–	•
Additional heater, rotated	906	•	•
Provision for rear climate control	4GT	–	•
12V socket / cigarette lighter at rear	4HG	•	–
Upgraded alternator (180 Amp)	4VP	•	•
Minibus air-conditioner	50B	–	•
Speed limiter (90km/h 56 mph)	58E	•	–
Speed limiter (100km/h 62 mph)	58F	•	Standard
Predisposition heater (Webasto) on tank	52X	•	•
Predisposition for after market sat nav	54K	•	•
Removable rear ceiling light	58F	•	•
<b>Safety</b>			
Head restraints adjustable for height for cab seats		Standard	Standard
4-sensor ABS + EBD (brake force distributor)		Standard	Standard
Driver airbag + pretensioned belts (2 seats)		Standard	Standard
3-point seat belts with retractor on front and rear seats		Standard	–
ASR anti-skid control	015	•	•
MBA (Mechanical Brake Assistance)	052	•	•
ESP (Electronic Stability Program) – includes ASR + HBA	392	•	•
Passenger(s) airbag(s)	502	Standard	–
Front side airbags + Window bags	505	•	–
<b>Audio / Telematics</b>			
Radio with CD and MP3 player		Standard	Standard
Provision to fit car radio, with wiring, aerial and speakers	082	–	–
Steering wheel mounted radio controls	245	Standard	Standard
Radio with CD player	564	–	–
Multifunction radio aerial (GPS, GSM, Radio) integrated in door mirror	54Q	•	•
Radio aerial integrated in door mirror	5A0	•	•
Blu&Me™	4J3	•	•

\* Not available to order until early 2008 \*\*160 MultiJet engine on 16+1 seat version

Standard = Standard • = Option – = Not available

# TECHNICAL GLOSSARY.

Standard ●  
Option ●

## BLUE&ME™



● The system created by Fiat in collaboration with Microsoft, enabling you to use your telephone in hands-free mode, by connecting it in complete safety to the vehicle's electronic system. The system also has a USB port for connecting electronic devices such as MP3-players to listen to music through the vehicle's audio system.

## SELF-LEVELLING SUSPENSION



● This suspension system keeps vehicle trim constant, regardless of the size and arrangement of the load, thus improving safety and driving comfort. The suspension is controlled by a control unit that acts on a pneumatic suspension system. When the vehicle is stationary, the same system enables the loading threshold to be raised or lowered by 70 mm.

## REFLECTIVE WINDSCREEN



● The windscreen contains a thin layer of metallic oxides, which intercepts and reflects the infra-red rays from the sun, responsible for overheating the cab. It reduces the burning effect of the sun on occupants and the temperature inside the cab, resulting in less use of the air-conditioning system and a consequent reduction in fuel consumption.

## REAR-VIEW CAMERA



● A mini-camera on the spoiler of the rear door sends an image of the area immediately behind the vehicle to a display in the cab. The closed-circuit television system is activated when reverse gear is engaged or when the relevant button is pressed, and is particularly useful when manoeuvring or loading / unloading cargo.

## VARIABLE POWER STEERING



● This system increases driving comfort by making parking easier when steering with the vehicle stationary and with a full load. The variable power steering system reduces the amount of effort required on the steering wheel by almost a half more than a normal power-steering system. At the same time, it guarantees maximum steering precision at high speeds, by smoothly adapting the force applied by the driver.

## PARKING SENSORS



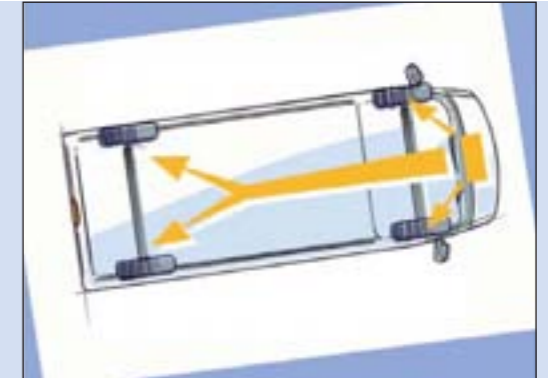
● These sensors provide the driver with information about the distance between the vehicle and any obstacles behind it. The system is activated when reverse gear is engaged and uses 4 ultra-sound sensors. As the vehicle approaches an obstacle, an intermittent beep is heard. A continuous beep indicates the minimum distance from the obstacle has been reached.

## ABS - ANTI-LOCK BRAKING SYSTEM



● This system prevents one or more of the wheels from locking in an emergency braking situation, provides greater grip and therefore better road-holding.

## EBD - ELECTRONIC BRAKE FORCE DISTRIBUTION



● This electronic system splits the braking force between the front and rear axle, for greater braking efficiency in all driving situations.

## ASR - ANTI-SLIP SYSTEM



● This system counteracts slipping effects on one or both driving wheels in poor grip conditions, by applying the brakes and at the same time temporarily reducing the power delivered by the engine.

## MBA - MECHANICAL BRAKE ASSISTANCE



● This system automatically increases the pressure in the braking circuit in emergency braking situations, by directly applying the servo-brake. If the vehicle is fitted with ESP, a similar function is provided by the HBA (Hydraulic Brake Assistance) system.

## ESP - ELECTRONIC STABILITY PROGRAM



● This system intervenes in emergency situations, such as sudden swerves to avoid an obstacle. The system monitors parameters including sideways acceleration, speed, grip and the angle of the steering wheel. It processes the data and, if necessary, acts on the engine torque and braking system to return the vehicle to conditions of perfect stability.

## LAC - ELECTRONIC LOAD ADAPTIVE CONTROL



● Part of the ESP system, this device monitors the vehicle load conditions when the vehicle is moving, particularly the total mass and the position of the centre of gravity. As these parameters vary, the system intervenes by calculating and applying new settings and intervention limits for the ABS, ASR and ESP functions, to ensure they always operate as efficiently as possible.

## CUSTOMER BENEFITS

When you buy a new Fiat Professional Vehicle, you buy more than just a van. Behind every van we sell there is the reassurance of a whole range of customer benefits and services designed to make the ownership of your Fiat as enjoyable, affordable and trouble-free as possible.

### 3 YEAR FIATCARE WARRANTY PACKAGE

All new Fiat vans come with this comprehensive package, which consists of the following:

### 2 YEAR UNLIMITED MILEAGE, MANUFACTURER WARRANTY

Any repairs required as the result of faulty materials or manufacture are carried out free of charge – either for parts or labour.

### 3RD YEAR DEALER WARRANTY†

This warranty covers most electrical and mechanical components in the third year, or up to 100,000 miles (60,000 miles on passenger version) from the date of first registration, whichever occurs first. The warranty is provided free of charge and is subject to conditions (full details are available from your Fiat dealer).

### 3 YEAR PAINTWORK WARRANTY

Any paintwork defects due to faulty materials or manufacture will be rectified free of charge during the first 3 years.

### 8 YEAR ANTI PERFORATION WARRANTY

Subject to regular inspections being carried out, as detailed in the Fiat Services Booklet, any perforation of the bodywork due to corrosion will be repaired free of all parts and labour charges during the first 8 years.

### 12 MONTHS PART AND REPAIR GUARANTEE

All genuine Fiat parts are guaranteed for 12 months, or the duration of the prevailing warranty on the vehicle, as are repairs carried out by any Fiat dealer using genuine parts.

### FIXED SERVICE COSTS

All Fiat dealers operate a 'Menu Pricing' programme, which guarantees fixed service and replacement costs, with no hidden extras. The price you see is the price you'll pay, unless you have given your consent for further work to be carried out.

### INFORMATION AND CUSTOMER SERVICE

A Pan-European toll free\* number (00800 3428 0000) gives you access to our dedicated information and customer services facilities, providing you with details of Fiat dealers offering additional services, such as extended workshop hours, Auto Clinic and Approved Bodyshop facilities.

Fiat also believe it is important to stay in contact with you and will, subject to your agreement, telephone you from time to time to ensure you are happy with your Fiat and the service you receive from your dealer. You can also access information about Fiat products and services online on our comprehensive website [www.fiatprofessional.co.uk](http://www.fiatprofessional.co.uk).

## INSURED PRODUCTS AND SERVICES

The following insured products and services are provided through Fiat Auto Financial Services Limited who are authorised and regulated by the Financial Services Authority for General Insurance.

### 1 YEAR'S AA ASSURANCE COVER

All new Fiat vans, first registered on, or after, the 1st January 2005, come with 1 year's AA Assurance cover, which includes Roadside Assistance, Home Start, Relay, Relay Plus, Load Continuation, European Cover and Accident Management.

This insured service is provided on a free of charge basis and is available 24 hours a day, throughout the year. AA Assurance also provides free access to travel information, legal advice and technical information.

### MOTOR INSURANCE

Comprehensive van insurance is available at competitive premiums, with up to 65% No Claims Bonus transferable from your existing policy after five consecutive years of claim free driving.

For a quotation ring 01708 754525

### FINANCE PLANS

Fiat Financial Services offers a comprehensive range of financial plans to suit private and business customers alike. Fiat I-deal, Fiat Finance Lease, Fiat Lease Purchase and traditional Hire Purchase can be adapted to suit your individual requirements, whatever they may be. For example, you may wish to include the cost of one of our Credit Protection Plans, which provides added security for you, your family and your investment. Your Fiat dealer will be pleased to design a specific plan for you.

Please ask for more information. Written quotations available on request. A guarantee may be required. Fiat Financial Services is a division of Fiat Auto Financial Services Limited.

### FIAT AUTO CONTRACTS - CONTRACT HIRE FOR THE BUSINESS USER

More and more businesses are turning to Contract Hire as a simple, tax efficient way of financing their fleet. Contract hire allows the use of a vehicle for a pre-determined fixed period and cost (subject to mileage and conditions) and has many features and benefits that your Fiat dealer will be delighted to discuss with you.

At Fiat Auto Contracts we also provide a full support service, including maintenance, relief vehicle, AA assurance and accident management, saving you time to concentrate on running your business. For more information, please contact your Fiat dealer, or call 01753 486885.

Contract Hire finance facilities are available to VAT registered businesses, subject to credit approval. Written quotations are available from Fiat Auto Contracts, 240 Bath Road, Slough, Berkshire, SL1 4DX. Fiat Auto Contracts Limited is an Appointed Representative of Fiat Auto Financial Services Limited.

†Only applicable to UK sourced vehicles from Fiat Group Automobiles UK Ltd.

\*Pan-European Freephone number from all UK land lines. A minimum charge applies to calls made from mobiles based on network rates.

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