

F I A T P A N D A



4 x 4

This Supplement illustrates the main features of the Fiat Panda 4x4, together with some advice for use, in its saloon and VAN versions.

For anything not included in this Supplement, refer to the Owner Handbook it is attached to.

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DESCRIPTION

The Fiat Panda 4x4 is provided with a transmission system, "torque on demand" type, which sends the drive torque to the rear axle on request. It comprises two differentials and an electronically controlled coupling.

Thanks to this system, the activation of the four-wheel drive takes place automatically (i.e. without requiring any action by the driver) and allows for optimal distribution of drive torque between front and rear axles, in low grip conditions.

The use of the electronically controlled joint guarantees progressive torque transfer and delivery, with very fast implementation times (a fraction of a second), in most cases, that is hardly recognisable by the driver.

The Fiat Panda 4x4 copes easily with snow, ice, mud and unmade roads, even where slopes are fairly steep.

For improved driveability of the car, in off-road conditions, we advise against using the CITY function.

ELD - ELECTRONIC LOCKING DIFFERENTIAL

The ELD (Electronic Locking Differential) is a further aid when driving and setting off in poor grip conditions (snow, ice, mud, etc.), which allows the drive force to be evenly distributed over the same axle when one or both wheels are slipping.

The ELD acts by braking the wheels with poor grip (or those slipping more than the others), thereby transferring the drive force to those which have greater grip on the ground.

This function can be activated manually by pressing the ELD button (A fig. 1) positioned in front of the gearbox lever and operates at speeds below 50 km/h.

Above this speed, it is automatically deactivated (the LED on the button stays on) and it is reactivated again when the speed is below 50 km/h.

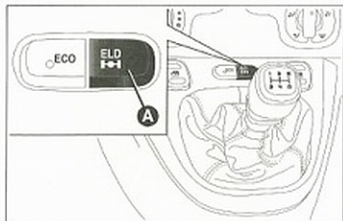


fig. 1

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How the ELD operates

The system is deactivated on starting.

To prepare the ELD system for operation, press the ELD button (A fig. 1); the LED in the button will light up.

The activation of the ELD system involves the following functions being switched on:

- ☐ permanent four-wheel drive, so that the vehicle is more responsive;
- ☐ inhibition of the ASR function, in order to fully exploit the engine torque;
- ☐ differential lock effect on the front and rear axles, via the braking system, to improve drive on uneven surfaces.



fig. 2

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IMPORTANT With ELD function activated, since activation of 4x4 drive is available, a braking effect may be detected when driving in tight curves at a low speed and/or when parking, due to the difference of speed between the front and rear wheels of the car. To avoid this effect, activate the ELD mode only when necessary.

Indications

Warning light in fig. 2, flashing and with button ELD pressed: indicates activation of the electronic locking differential (ELD) function. Switching on of the general failure warning light \triangle together with the 4x4 drive not available message: indicate that a fault is present in the 4x4 drive. In this case contact a Fiat Dealership as soon as possible. Switching on of warning light **ESC** together with the dedicated message on the display, indicate an ELD system failure. Also in this case, contact a Fiat Dealership as soon as possible.

When using the space-saver wheel

If the space-saver wheel is used, the control unit for 4x4 drive detects its presence (via the wheel speed signals) and reduces the intervention of the four-wheel drive mode to a minimum, while guaranteeing the agility of the car. No fault/alarm signal is displayed on the instrument panel or on the display.

WASHING THE CAR

After using the car off-road, with significant contact of wheels, bodywork, below-engine covers and underbody protection, it is necessary to wash the car cleaning the radiators carefully (engine cooling and air conditioning), radiator fan, wheels (rims and wheel arches), under-engine and underbody guards, in order not to affect their operation.

Thorough washing of the car, in addition to ensuring good ventilation of the brake discs and perfect balance of the wheels, also guarantees that the propeller shaft operates correctly.

CHANGING A WHEEL

General instructions

The car comes with a Fix&GO quick tyre repair kit or, for versions/markets, where provided, with a space-saver wheel.

In case of car with FIX&GO system, the tools - kit included - are located in a suitable container under the luggage compartment mat fig. 3.

If the car has a space-saver wheel, the tools are located in the tool box under the driver seat or in the luggage compartment.

The space-saver wheel, under the luggage compartment floor, is positioned as shown in fig. 4.

For the use of the FIX&GO kit or for the tyre replacement procedure, refer to the Owner Handbook to which this Supplement is attached.

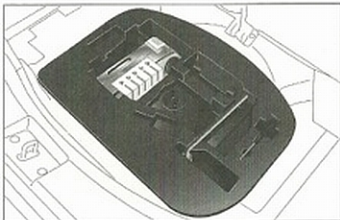


fig. 3

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TOWING THE CAR

The car can only be towed in one of the following ways (and always with the engine off, gear set to neutral and handbrake released):

- ☐ with the 4 wheels on the road surface;
- ☐ with the front wheels raised or resting on an emergency vehicle and the rear wheels resting on a specific trolley;
- ☐ with the rear wheels raised or resting on an emergency vehicle and the front wheels resting on a specific trolley;
- ☐ loaded on the platform of the emergency means, with all 4 wheels on the platform.

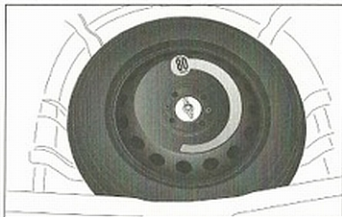


fig. 4

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TOWING TRAILERS

In the event of prolonged car use at maximum tow capacity on slopes, replacing engine oil more frequently (every 10,000 km) is advisable.

With regards to the warnings and instructions for the installation of the tow hook, please refer to the Owner Handbook to which this Supplement is attached.

SCHEDULED SERVICING PLAN

The service interventions must be performed: every 35,000 km for 1.3 16V Multijet 75 HP versions, every 30,000 km for 0.9 TwinAir Turbo 85 HP versions, or every 24 months.

The items dedicated to the Panda 4x4 follow, in addition to what is described in the Scheduled Servicing Plan in the Owner Handbook to which this Supplement is attached.

1.3 16V Multijet 75 HP VERSIONS

Thousands of kilometres	35	70	105	140	175
Months	24	48	72	96	120
Check condition and wear of rear brake discs	●	●	●	●	●
Check manual gearbox oil level		●		●	
Check drive transmission idler unit oil level (PTU)		●		●	
Check rear differential oil level		●		●	

0.9 TwinAir Turbo 85 HP VERSIONS

Thousands of kilometres	30	60	90	120	150	180
Months	24	48	72	96	120	144
Check condition and wear of rear brake discs	●	●	●	●	●	●
Check manual gearbox drive transmission idler unit oil level (PTU)		●		●		●
Check rear differential oil level		●		●		●

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ENGINE CODES - BODYWORK VERSIONS

	1.3 16V Multijet 75 HP			0.9 TwinAir Turbo 85 HP		
	Saloon, 4-seater	Saloon, 5-seater	VAN, 2-seater	Saloon, 4-seater	Saloon, 5-seater	VAN, 2-seater
Engine code	199A9000			312A2000		
Bodywork code	312PXL2A P6	312PXL2A P6B	312CXL2A A9	312PXG2B P5	312PXG2B P5B	312CXG2B A10

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RIMS AND TYRES

The tyres on all Fiat Panda 4x4 versions have been designed to give the best balance between performance on normal roads and performance on unmade roads and/or snow-covered or icy surfaces. These tyres are marked by a high agility in off-road conditions and good driveability both on snowy/icy ground and on wet/dry ground. The following tyres are provided:

Rims	Tyres fitted as standard	Tyres on request	Space-saver wheel (*)
6J x 15H2 - ET35	175/65 R15 84T M+S	175/65 R15 84T	125/80 R15 95M

(*) For versions/markets, where provided.

Note If the space-saver wheel is used, the control unit for 4x4 drive detects its presence (via the wheel speed signals) and reduces the intervention of the four-wheel drive to a minimum, while guaranteeing the agility of the car. No fault/alarm signal is displayed on the instrument panel or on the display.

INFLATION PRESSURE (bar)

Tyres	No load/medium load		Full load		Space-saver wheel (*)
	front	rear	front	rear	
175/65 R15 84T M+S	2.2	2.1	2.5	2.5	4.2
175/65 R15 84T	2.2	2.1	2.5	2.5	

(*) For versions/markets, where provided.

Note Do not drive deliberately for long distances with the tyres flat (not at the prescribed pressure) and/or with greatly varying pressures between front axle and rear axle, in order to avoid any malfunction of the 4x4 drive.

TRANSMISSION

	1.3 Multijet 16V 75 HP	0.9 TwinAir Turbo 85 HP
Gearbox	Five forward gears and reverse with synchronisers for forward gear engagement	Six forward speed plus reverse with synchronisers for the engagement of the forward speeds
Clutch	Self-adjusting pedal without idle stroke	
Drive	4x4 with automatic engagement by means of an electronically controlled coupling and two differentials.	

BRAKES

Versions	Front service brakes	Rear service brakes	Parking brake
Saloon	Self-ventilated disc	Disc	Controlled by hand lever, acting on the rear brakes
VAN			

STEERING

Type	Rack and pinion with electric power steering
Turning circle (kerb to kerb) (mm)	9.7

For improved driveability of the car, in off-road conditions, we advise against using the CITY function.

PERFORMANCE

The max. speed after the car has been run in corresponds to:

	1.3 Multijet 16V 75 HP	0.9 TwinAir Turbo 85 HP
km/h	159	166 (in sixth gear)

DIMENSIONS

Dimensions are expressed in mm and refer to the car equipped with its original tyres. Height is measured with car unladen.

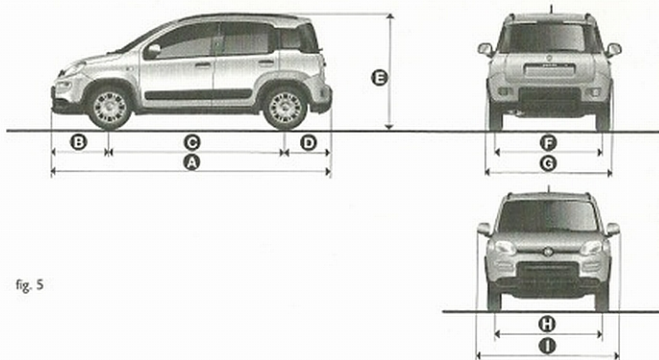


fig. 5

P0W0424

	A	B	C	D	E	F	G	H	I
Saloon	3686	765	2300	621	1605	1408	1672	1411	1882
VAN	3653	747	2300	606	1605	1408	1643	1411	1882

WEIGHTS AND LOADS

1.3 16V Multijet 75 HP versions

	Saloon		VAN
	4-seater	5-seater	2-seater
Unladen weight (with all fluids, fuel tank filled to 90% and without optional equipment) (kg):	1115	1115	1100
Payload including the driver (kg): ^(*)	480	500	495
Maximum permitted loads (kg) ^(**)			
– front axle:	875	875	875
– rear axle:	810	810	810
– total:	1595	1615	1595
Towable loads (kg):			
- trailer with brakes:	900	900	900
- trailer without brakes:	400	400	400
Maximum load on the roof (kg):	55	55	55
Maximum load on the ball (braked trailer) (kg):	60	60	60

(*) If special equipment is fitted (sunroof, tow hitch, etc.) the unladen car weight increases, thus reducing the specified payload with respect to the maximum permitted load.

(**) Loads not to be exceeded. The user is responsible for arranging goods in the luggage compartment and/or load platform within the maximum permitted loads.

0.9 TwinAir Turbo 85 HP versions

	Saloon		VAN
	4-seater	5-seater	2-seater
Unladen weight (with all fluids, fuel tank filled to 90% and without optional equipment) (kg):	1050	1050	1035
Payload including the driver (kg): (*)	480	500	510
Maximum permitted loads (kg) (**)			
– front axle:	875	875	875
– rear axle:	810	810	810
– total:	1530	1550	1545
Towable loads (kg):			
- trailer with brakes:	800	800	800
- trailer without brakes:	400	400	400
Maximum load on the roof (kg):	55	55	55
Maximum load on the ball (braked trailer) (kg):	60	60	60

(*) If special equipment is fitted (sunroof, tow hitch, etc.) the unladen car weight increases, thus reducing the specified payload with respect to the maximum permitted load.

(**) Loads not to be exceeded. The user is responsible for arranging goods in the luggage compartment and/or load platform within the maximum permitted loads.

REFUELLING

Versions	1.3 16V Multijet 75 HP	Prescribed fuels and original lubricants
Fuel tank capacity (litres):	35	Diesel for automotive engines (Specification EN590)
including a reserve of (litres):	5 + 7	
Engine cooling system (litres):	6.3	50-50 mixture of water and PARAFLU ^{UP} (*)
Engine sump (litres):	2.8	SELENIA WR P.E.
Engine sump and filter (litres):	3.0	
Gearbox casing/front differential (kg):	1.70	TUTELA TRANSMISSION TECHNYX (**)
Check drive transmission idler unit oil level (PTU) (kg):	0.39	TUTELA TRANSMISSION MULTIAXLE (***)
Rear differential (kg):	0.62	TUTELA TRANSMISSION CROSS (****)
Hydraulic brake circuit (litres):	0.55	TUTELA TOP 4
Windscreen and rear window washer fluid reservoir (litres):	2.7	Mixture of water and TUTELA PROFESSIONAL SC35

(*) For particularly harsh climate conditions, a mixture of 60% PARAFLU^{UP} and 40% demineralised water is recommended.

(**) SAE 75W-85 grade synthetic lubricant. Exceeds API GL-4 PLUS specifications. FIAT Classification 9.55550-MX3. Contractual Technical Reference No. F010.B05.

(***) SAE 75W-85 grade synthetic lubricant, which exceeds API GL5 specifications. FIAT 9.55550 classification - DA3. Contractual Technical Reference No. F426.E06.

(****) SAE 75W-85 grade synthetic lubricant. FIAT Classification 9.55550 - DA4. Contractual Technical Reference No. F001.D12.

Versions	0.9 TwinAir Turbo 85 HP	Prescribed fuels and original lubricants
Fuel tank (litres):	35	Unleaded petrol not less than 95 RON (EN 228 specification)
including a reserve of (litres):	5 + 7	
Engine cooling system (litres):	5.2	Mixture of distilled water and 50% PARAFLU ^{UP} (*)
Engine sump (litres):	2.8	SELENIA K P.E.
Engine sump and filter (litres):	3.2	
Gearbox casing/front differential (kg):	1.70	TUTELA TRANSMISSION TECHNYX (**)
Rear differential (kg):	0.62	TUTELA TRANSMISSION CROSS (***)
Hydraulic brake circuit (litres):	0.55	TUTELA TOP 4
Windscreen and rear window washer fluid reservoir (litres):	2.7	Mixture of water and TUTELA PROFESSIONAL SC35

(*) For particularly harsh climate conditions, a mixture of 60% PARAFLU^{UP} and 40% demineralised water is recommended.

(**) SAE 75W-85 grade synthetic lubricant. Exceeds API GL-4 PLUS specifications. FIAT Classification 9.55550-MX3. Contractual Technical Reference No. F010.B05.

(***) SAE 75W-85 grade synthetic lubricant. FIAT Classification 9.55550 - DA4. Contractual Technical Reference No. F001.D12.

FUEL CONSUMPTION

Fuel consumption according to the current European directive (litres/100 km)

	Urban	Extra-urban	Combined
1.3 16V Multijet 75 HP	5.0	4.6	4.7
0.9 TwinAir Turbo 85 HP	5.9	4.3	4.9

CO₂ EMISSIONS

The CO₂ emission levels given in the following tables refer to combined consumption.

Versions	CO ₂ emissions according to the current European directive (g/km)
1.3 16V Multijet 75 HP	125
0.9 TwinAir Turbo 85 HP	114

NOTES

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