



Making vehicles special

# Emergency Ambulance: The WAS Lightweight Fuel Saving Design with Paramedic Safety Seat.



# Lightweight Design: 200 kg Lighter Than a Panel Van = 5.8 % Fuel Saving.



The WAS Fiat lightweight modular box A+E vehicle offers a perfect solution to the restrictions of a panel van. The vehicle has 20 % more interior workspace than a panel van but the gross vehicle weight is a massive 6.5 % lighter which improves fuel economy greatly and enables bariatric capability with a payload of 850kg. The tried and tested WAS heavy duty dual rear doors are capable of mounting medical equipment and the sliding side door offers access to response bags and allows for the emergency removal of the stretcher. There is also the option for external lockers to provide quick and easy access to essential equipment without having to enter the vehicle. An integrated side step offers easier access to the vehicle with reduced height, this mitigates the risk of VOR that's linked to the underslung step. An integrated step will also reduce the risk of accidental injury to both crew and patient. With the WAS modular box's internal width that's 100mm greater than the van, layout options are far more versatile and patient comfort is enhanced. The extra width allows for a carry chair to be loaded without stowing away the forward-facing saloon seat.

## EXTERIOR

- All windows available for integrated blinds or frosting/tinting options
- 4 LED scene lights
- 2 multifunctional air-dam mounted alley/puddle/blue lights
- 4 LED body flashing blues
- Front and rear latest generation LED warning lights and lightbars
- Multiple communications aerial layouts
- Acoustic warning system, fully tested and noise compliant 100W, speaker driver orientated to aid service and reduce risk of failure. Speaker horn positioned for maximum acoustic effect
- LED vehicle tail lamps, side marker lights and clearance lights
- Next generation red LED crash lights fitted to rear facing door edges
- LED entry lighting
- HDR colour video system with 4 external cameras including reverse camera and 1 internal camera
- Fully automatic air suspension
- 16 A automatic ejecting charging socket with LED charge indication

## ENTRY SYSTEMS AND LOADING AIDS

- Integrated side step enables easy access to the vehicle while reducing the risk of injury and VOR times. The side step is 410mm from ground level and has a non-slip surface
- Easy load powered 450kg SWL wedge ramp tested to over 250,000 cycles, the ramp contains a protected drive motor which provides a quick but smooth operation. It also includes a sacrificial rear panel for easy replacement in the event of accidental damage
- Electrically operated winch rated to 500kg which aids with loading the stretcher and carry chair. Operation via a 3mtr wander-lead controller with an emergency stop override switch

## SPECIAL FEATURES

- Integrated side step (410mm from ground level)
- All interior lockers are made from antibacterial material to aid with infection control
- WAS easy remount box system
- GVW 200kg lighter than the Fiat Ducato panel van with a payload of 850kg
- Saloon rear forward facing seat height of 470mm
- Paramedic sliding safety seat

# Patented: Paramedic Safety Seat, Forward Facing, Seat Belt on.



The interior layout has been designed with safety in mind, the paramedic can know be seated, forward facing with seat belt on and still perform clinical care to the patient. The paramedic seat can slide left to access medical equipment and work area, the seat can also slide right close up to the stretcher and has the ability to swivel 10 degrees clockwise. To enable the design to work, the cabinetry and storage is laid out so that the paramedic can remain seated and access all the necessary medical equipment i.e. de-fib, EPRF, drugs and consumables.

## CEILING

- Sky light with optional roof hatch with emergency exit, roller blind and insect screen
- Roof vents (intake and extract)
- 8 dimmable LED lights for lighting the patient compartment, with optional trauma function
- Spot-lighting above the patient
- Multi point panic strips to activate internal video surveillance system and multiple alert system
- Multiple grab rails
- Paramedic LED work light

## FLOOR

- Single fixation point of stretcher which accepts standard or bariatric stretcher, option for central stretcher mount fixation points
- Four securing points in floor for specialised medical equipment such as aortic balloon pumps
- High visibility non-slip flooring integrated with side wall and cupboard via plastic welding

## PARTITION WALL

- Rear facing attendant's seat with Isofix capability
- Housing for air conditioning
- Add-jump seat for student/relative
- Lockable compartment for POM's and drugs storage
- Secure dedicated locker to house communication systems with internal LED lighting

## INTERIOR

- Increased internal width offers layout versatility, patient and operator comfort and an altogether more usable working area
- Saloon interior manufactured from a lightweight rigid PVC with high visibility edging, highly resistant to bacteria and disinfectant and free from organic material
- Storage lockers for medical equipment to meet JR Calc and CEN requirements

## RIGHT SIDE WALL

- WAS fully tested and reconfigurable medi wall to house medical equipment and vehicle operating controls
- Oxygen locker for ZX and HX size cylinders
- Wall houses CD size cylinder brackets, recessed oxygen outlets with easy access to pipelines, with manual changeover valve
- Easily accessible heater housing compartment with 2 outlets

## LEFT SIDE WALL

- Tested and patented forward facing attendant's seat with three-point seat belt and the ability to swivel in the direction of the patient.
- Option for an integrated vehicle operation panel

# Innovating Box Body Design: Fit for the 21st Century.



The interior layout is fully versatile and configurable, stretcher loading options are also available.



There are two rearward facing seats within the layout, one being the clinical airway seat Isofix and the other being a student or relative seat with foldable seat base.

## DRIVER'S COMPARTMENT

60 mm increased cab length compared to a standard Fiat panel van

Centre console for storage of PPE and documents

Mirror monitor connected to 5 camera birds eye 360° CCTV system

LED map lights

Options for mounting the auxiliary control panel and communications systems into the centre console or the roof lining pod

16 ltr cool box for crew welfare

## BASE VEHICLE

Model	Fiat Ducato
Type	Maxi L3 Euro6
Engine power	180hp
Gearbox	Manual
Type of vehicle	Box body
Wheel base	4035 mm
Fuel	Diesel
Maximum total weight	4250 kg

## BOX BODY

Model WAS Fiat Lightweight Modular Box

Internal dimensions  
Length: 3955 mm  
Width: 2040 mm  
Height: 1980 mm

External dimensions  
Length: 6685 mm  
Width: 2116 mm  
Height: 2680 mm

Doors

- Side sliding door giving access to response bags (width: 1255 mm)
- 50/50 heavy duty dual rear doors opening and lockable to 270° on both sides

The concept is transferable to other base vehicle types. The equipment is an example and can be customized.

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