MASTER 4X4

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RENAULT TRUCKS

MASTER 4X4 PICTURES

RANGE POSTER

TECHNICAL DESCRIPTION

VARIANTS

COMPETITORS

RANGE POSTER– ENGINES EURO 6

HEAVY DUTY €VI D

ENGINE TYPE	POWER / TORQUE	GEARBOX
4 CYL, 2.3L BI-TURBO	130 hp / 330 Nm	Manual 6 speeds
	145 hp / 360 Nm Stop & Start	
	165 hp / 380 Nm Stop & Start	

RANGE POSTER – CONFIGURATIONS

VANS

Vans RWD/RTWD

Vans crew cab RWD/RTWD

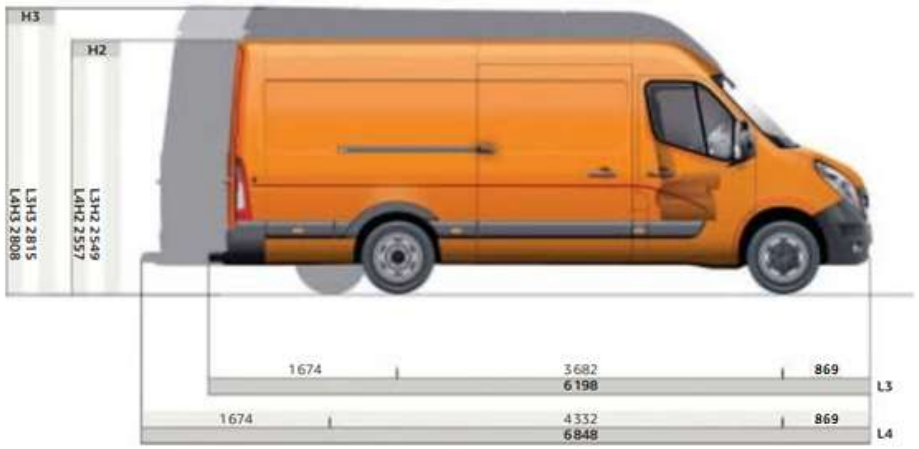
CHASSIS CAB

Chassis cab RWD /RTWD

Chassis double cab RWD/RTWD

RANGE POSTER - VANS

VAN RWD

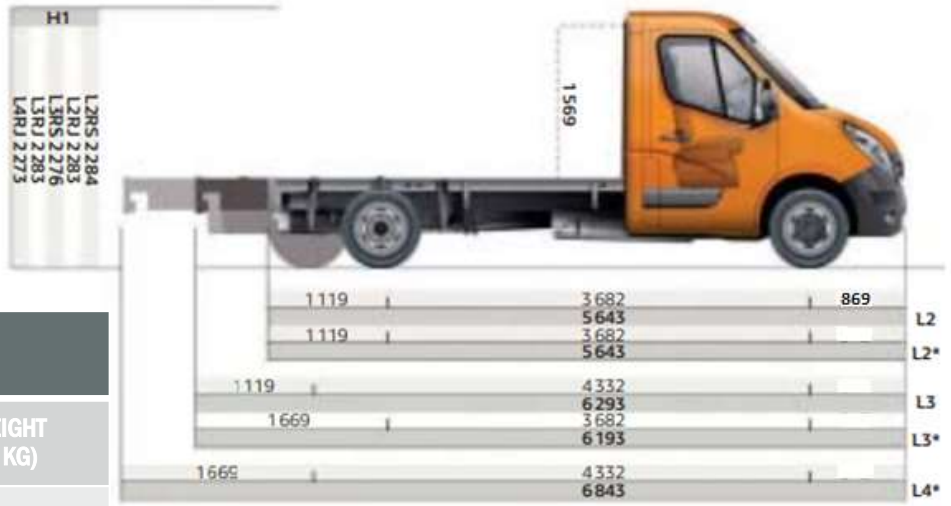


WEIGHT AND DIMENSIONS

	VOLUME LOADING AREA	MAX PAYLOAD (GCW 3500 KG – SINGLE REAR WHEELS)	MAX PAYLOAD (GCW 3500 KG – TWIN REAR WHEELS)	MAX PAYLOAD (GCW 4500 KG – TWIN REAR WHEELS)
L3H2	*12,4 m3*	*962 kg*	*906 kg*	*1906 kg*
L3H3	*14,2 m3*	*939 kg*	*883 kg*	*1883 kg*
L4H2	*14,9 m3*	*938 kg*	*882 kg*	*1882 kg*
L4H3	*17 m3*	*915 kg*	*795 kg*	*1795 kg*

RANGE POSTER– CHASSIS CAB

CHASSIS CAB RWD

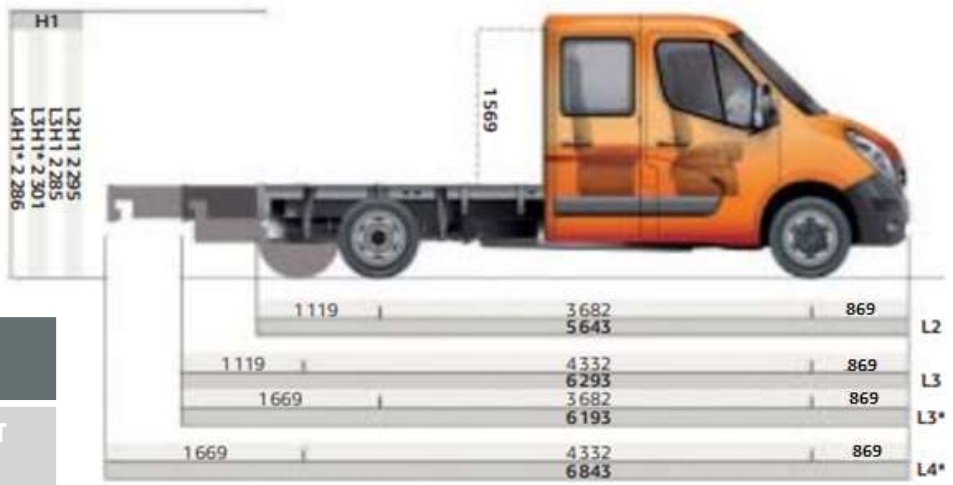


WEIGHT AND DIMENSIONS

	REAR WHEELS	WHEELBASE	REAR OVERHANG	MAX PAYLOAD (GCW 3500 KG)	TRAILER WEIGHT (GCW 3500 KG)
L2	*Single wheel*	*3682 mm*	*1119 mm*	*1406 kg*	*2500 kg*
	Twin wheels	*3682 mm*	*1119 mm*	*1225 kg*	*3500 kg*
L3	*Single wheel*	*4332 mm*	*1119 mm*	*1355 kg*	*2500 kg*
	Twin wheels	*3682 mm*	*1669 mm*	*1215 kg*	*3500 kg*
L4	*Twin wheels*	*4332 mm*	*1669 mm*	*1210 kg*	*3500 kg*

RANGE POSTER – CHASSIS DOUBLE CAB

CHASSIS DOUBLE CAB RWD



WEIGHT AND DIMENSIONS

	REAR WHEELS	WHEELBASE	REAR OVERHANG	MAX PAYLOAD (GCW 3500 KG)	TRAILER WEIGHT (GCW 3500 KG)
L2	*Single wheel*	*3682 mm*	*1119 mm*	*1120 kg*	*2500 kg*
L3	*Single wheel*	*4332 mm*	*1119 mm*	*1065 kg*	*2500 kg*
	Twin wheels	*3682 mm*	*1669 mm*	*1060 kg*	*3500 kg*
L4	*Twin wheels*	*4332 mm*	*1669 mm*	*1011 kg*	*3500 kg*

RANGE POSTER – GVW & GCW

	GVW	GCW	MAX LOAD FRONT AXLE	MAX LOAD REAR AXLE
AWD	3.5T SINGLE REAR WHEEL	6T	1850 kg	2300 kg
	3.5T TWIN REAR WHEELS	7T	1850 kg	2300 kg
	4.5T TWIN REAR WHEELS	7.5T	1850 kg	3200 kg

RANGE POSTER

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TECHNICAL DESCRIPTION

The 4x4 modification is based on the RWD models.

Oberaigner 4x4 Conversion Description		
DESIGN	Switchable 4x4 drive without differential coupling, inluding a switchable gear reduction with reduction ratio 1,42	
	4x4 and gear reduction can be used simultanously or independatly.	
LEVEL INCREASE	65 mm at the front	
	58 mm at the rear (only for single wheel versions)	45 mm at the rear (only for twin wheel versions)
ADDITIONAL WEIGHT	± 195 kg	

TECHNICAL DESCRIPTION

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Typical 4x4 dimensions (Panel Vans)

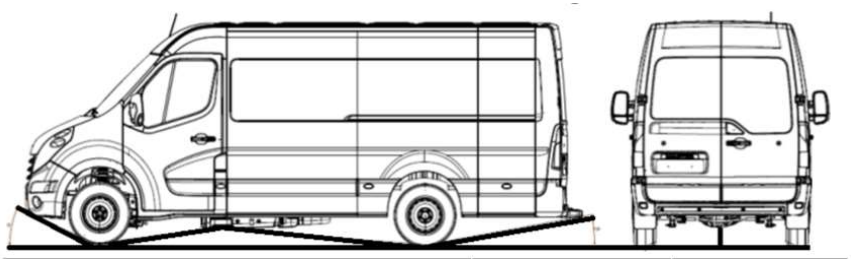
Panel Vans/wheelbase in mm	3.682	4.332
Approach Angle (°)	23,5	23
Break-Over-Angle (°)	11,4 – 12,2	10,7
Departure Angle (°)	10,0 – 12,0	11,7
Min. Ground clearance (mm) (dependent on load/Model)	181 - 197	167
Fording Depth up to 300mm with speed below < 10 km/h		

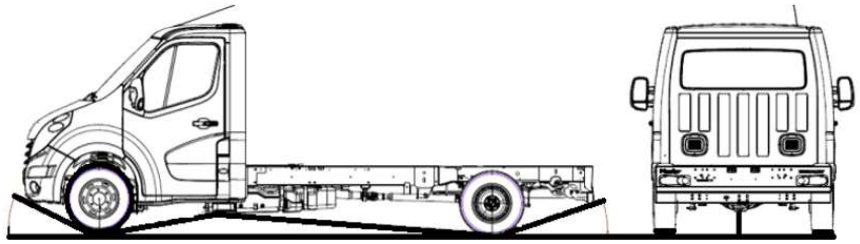
All data with maximum load.

Typical 4x4 dimensions (Chassis)

Chassis Cabs/wheelbase in mm	3.682		4.332	
	Rear overhang			
	1.119	1.669	1.119	1.669
Approach Angle (°)	24	23,5	23,5	23,5
Break-Over-Angle (°)	13	12	11,4	11
Departure Angle (°)	17,4	11	17	11
Min. Ground clearance (mm) (dependent on load/Model)	167	167	167	167
Fording Depth up to 300mm with speed below < 10 km/h				

All data with maximum load.

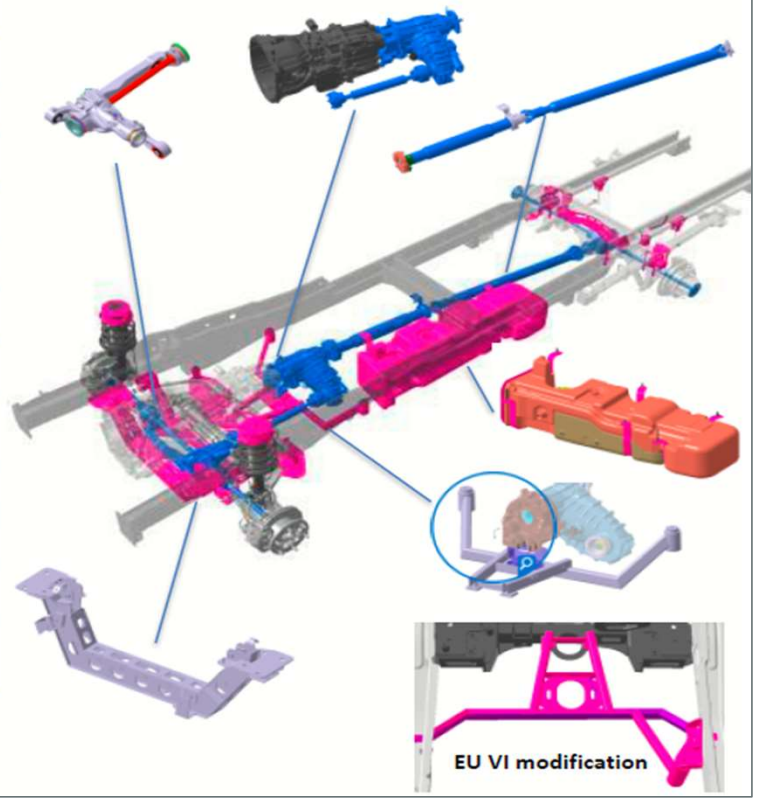




TECHNICAL DESCRIPTION

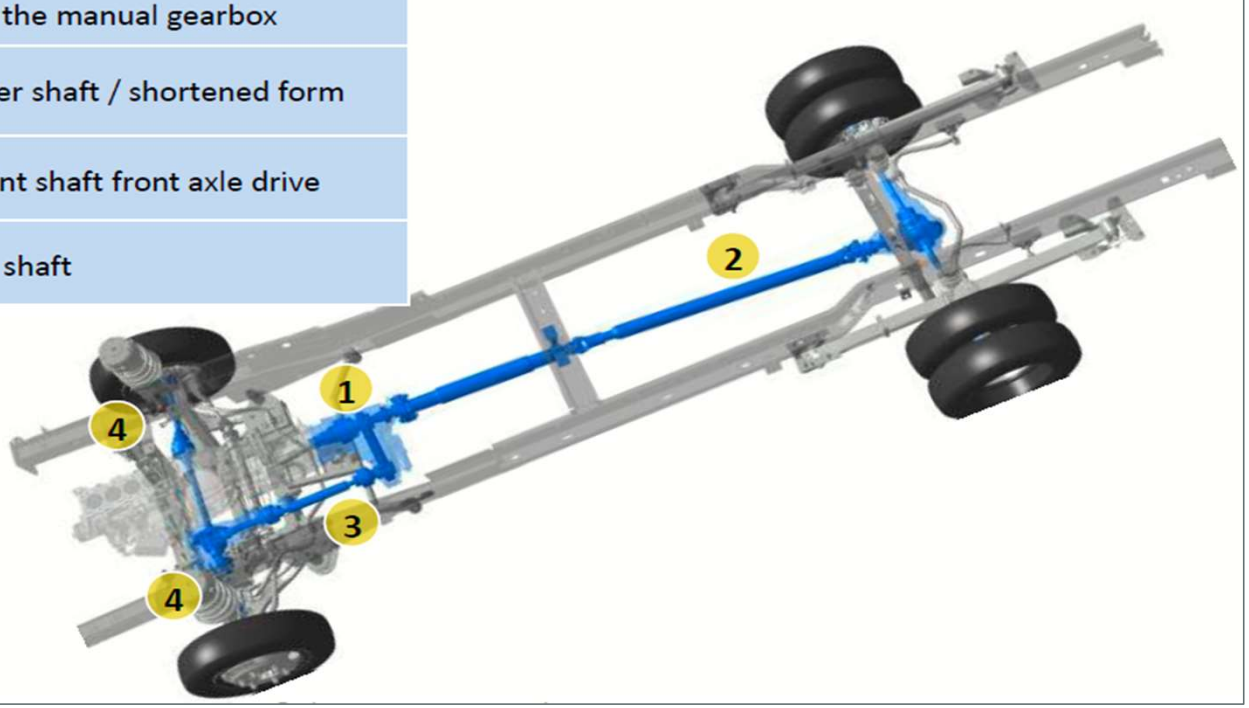
NEW PARTS	
	Front axle drive
	Transfer case (direct flanging)
	Propeller shaft (original, shortened form)
	Engine cross member
	Fuel tank and fittings
	Main gearbox flange
	Speed sensor on Transfer case
	Electronic / ESP (Communication between Oberaigner/Bosch control unit
	Transfer case cross member, connection to frame
	Transfer case bearing
	Transmission support
	Spacers, adapters, mountings for level increasing (front/rear axle)

* EU VI: 4x4 software will be updated to ESP 9.1.



TECHNICAL DESCRIPTION

DRIVELINE	
1	Direct Flanging of Homokinetic joint shaft transfer case to the manual gearbox
2	Original propeller shaft / shortened form
3	Homokinetic joint shaft front axle drive
4	Front axle drive shaft



TECHNICAL DESCRIPTION

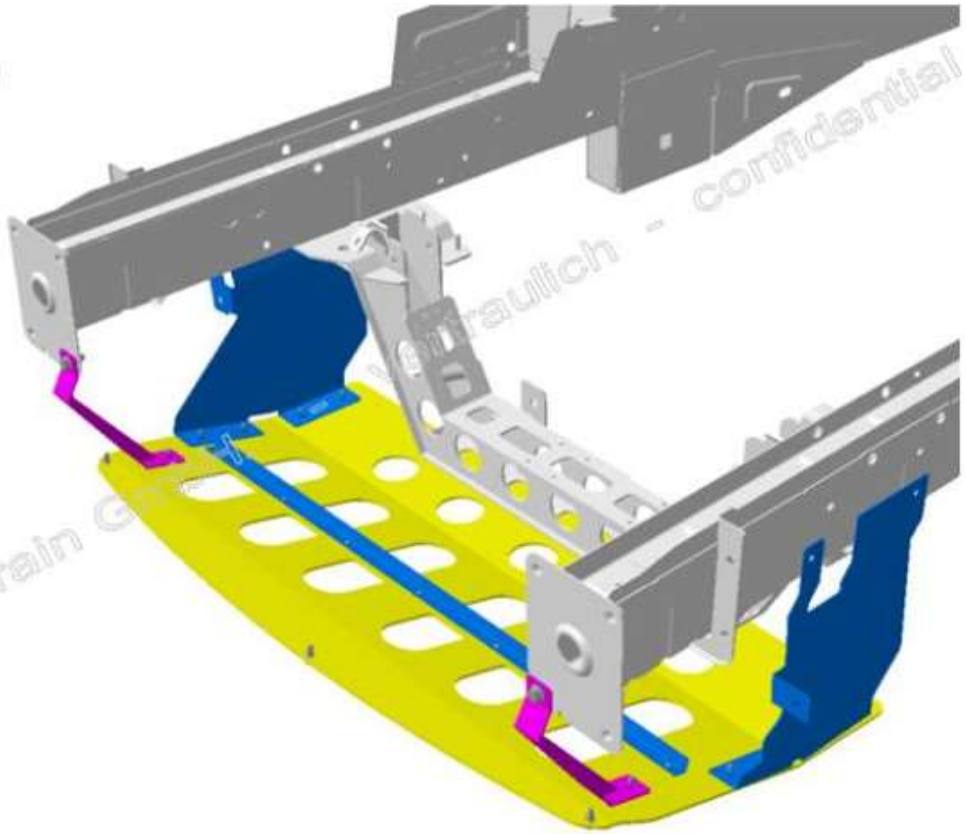
A new engine protection is added instead of the standard engine protection:

Engine protection
Material, thickness

Aluminium, 4mm

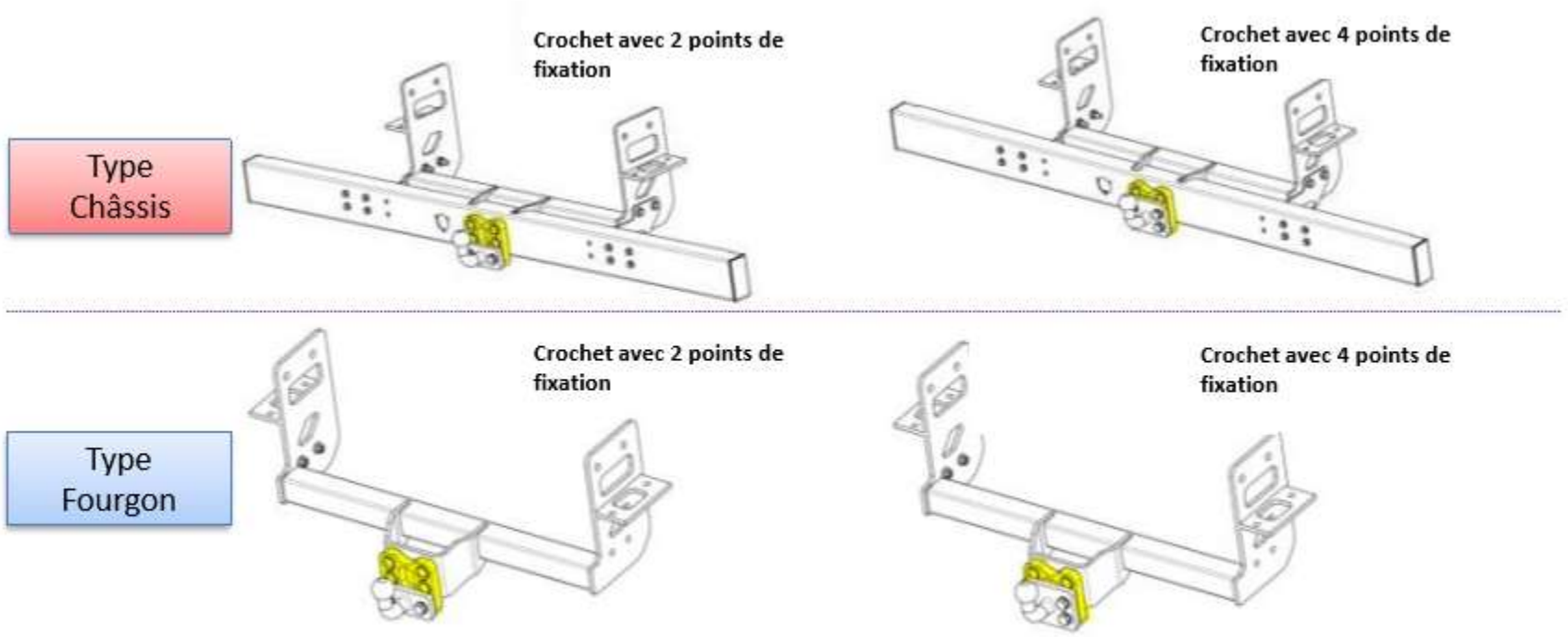
Steel, 3mm

Steel, 2mm



TECHNICAL DESCRIPTION

When the vehicle is ordered with a towing hook, it is equipped with a spacer to maintain the standard coupling height.



TECHNICAL DESCRIPTION

- Activation in the cockpit with an own control panel.

ELECTRONICS, ACTIVATION	
1	Switch all-wheel drive control LED
2	Switch gear reduction with control LED
3	Switch menu
4	Display
5	Case of the control unit

Position: instead of wireless charger

TECHNICAL DESCRIPTION : OPERATION

All-wheel drive activation: Activation using the control panel on the centre console by pressing the 4-wheel drive button “4x4”. Pressing the button triggers pre-selection mode for all-wheel drive activation. Within the next 5 seconds, the controller checks whether all switching conditions are met and then activates the all-wheel drive. Conditions that are not met are indicated for the driver on the display.

The all-wheel drive is activated under the following conditions:

- The engine is running (RPM over 600)
- The driving speed is less than 25 km/h
- The steering angle is less than +/- 240°
- The difference between the wheel rotation speeds is not too great

If the requirements for activation are not met within 5 seconds, the pre-selection is reset. The operator can initiate the sequence again at any time.

While 4x4 is being activated, the display shows “4x4: shifting ON”. After successful switching the display shows “4x4: ON”.

TECHNICAL DESCRIPTION : OPERATION

Driving in all-wheel drive mode: As soon as the all-wheel drive is activated, the control lamp next to the button lights up and the display shows “4x4: ON”. Warning lamps in the instrument cluster indicate that the ESP and ABS are deactivated. The notices “CHECK ABS” and “CHECK ESP” are displayed on the text output.

Starting at a speed of 50 km/h, a beep sounds every 2 seconds. An additional display messages asks the drive to reduce speed.

All-wheel drive deactivation: The all-wheel drive can be deactivated at any time by pressing the 4-wheel-drive button “4x4”. During the switching process, the control panel shows “4x4: shifting OFF”. As soon as the red control lamp next to the 4-wheel-drive button “4x4” turns off and the display shows “4x4: “OFF”, the process is complete and the vehicle is in 4x2 mode.

TECHNICAL DESCRIPTION : OPERATION

GEAR REDUCTION: LOW RANGE

	Function	Status
1	4-wheel-drive „4x4"	Not Activated
2	Low Range „LOW"	Activated

Compared to street mode, the gear ratio between the engine and wheels is reduced by about 40%. The drive torque is correspondingly higher.

The gear reduction can be activated in both 4x2 and 4x4 operation.

The gear reduction is used while driving in challenging conditions. There are 2 operating modes: Street mode and gear reduction for driving very slowly, or for operation on steep slopes.

TECHNICAL DESCRIPTION : OPERATION

Activating and deactivating the gear reduction: The control panel in the centre console is used for activation and deactivation by pressing the gear reduction button “LOW”. Pressing the button triggers pre-selection mode for activation. Within the next 5 seconds, the controller checks whether all switching conditions are met and then activates the gear reduction. Conditions that are not met are indicated for the driver on the display.
The following conditions have to be met to activate the gear reduction:
• The engine is running (RPM over 600)
• The vehicle is not moving
• The clutch pedal is pressed
If the requirements for activation are not met within 5 seconds, the pre-selection is reset. The operator can initiate the sequence again at any time.
During gear reduction activation/deactivation, the display shows “LOW: shifting ON”/”LOW: shifting OFF”. After successful switching the display shows “LOW: ON” or “LOW: OFF”.

Driving with activated gear reduction: Gear reduction is activated when the red control lamp next to the LOW button is lit up. The display on the control panel shows “LOW: ON”.