

Model code : POT_10XA036STD00
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Prepared for :

T HIGH T4X2 13L E6 - GVW 18T / GTW 44 T

RENAULT TRUCKS

T HIGH 480

WEIGHTS

Wheelbase		mm	3.800
Maximum Weight (registered)	Total (GVW)	Kg	18000
Payload	(C)	Kg	9445
Maximum Weight (registered)	Front axle 1	Kg	8000.00
	rear axle 1	Kg	11500
Min. weight complete vehicle unladen	Front axle(s)	Kg	5772.00
Kerb Weight	total	Kg	8555
Chassis cab kerb weight	Front Axle 1	Kg	5878.00
	Rear Axle 1	Kg	2677.00
Total vehicle weight under full load at YMIN	Front axle(s)	Kg	
	Rear axle(s)	Kg	
Total vehicle weight under full load at YMAX	Front axle(s)	Kg	
	Rear axle(s)	Kg	

This table includes the weights of the RENAULT TRUCKS options: full urea tank, oil, screen wash fluid and coolant at 100%, fuel fill level 90% and driver present (75 kg)

To maintain the driving comfort (lightness of steering, braking) of vehicles in all load and driving conditions once the vehicle is bodied, the following minimum axle load(s) must be respected: A value corresponding to 29% of the weight of the unladen bodied vehicle kerb weight (with driver, without passenger)

LENGTHS

Wheelbase		mm	3.800
Front Overhang	(H / BEP L016)	mm	1365
Wheelbase	(F / BEP L011)	mm	3800
Rear overhang	Chassis	mm	1046
Centre of Gravity of vehicle	at X (BEP L044)	mm	1200.00
Overall Chassis Length	(A / BEP L001)	mm	6211

HEIGHTS

Wheelbase		mm	3.800
Ground clearance, laden	Front (U1 / BEP H015)	mm	227
	Rear (U3 / BEP H016)	mm	212
Max. exterior height unladen	(BEP H001)	mm	3964
Max. exterior height, cab tilted, unladen	(O1 / BEP H061)	mm	4567.00
Cab height (unladen)	(O)	mm	3875
Distance from ground to lowest point at front of vehicle	Unladen (H0 / BEP H18)	mm	342.00
	Laden (H0 / BEP H18)	mm	283.00
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	968.00
	Laden (H1 / BEP H036)	mm	918.00



Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	954
	Laden (H2 / BEP H038)	mm	931
Frame top height at the rear of the frame	Unladen (HN)	mm	950.00
	Laden (HN)	mm	935.00
Centre of Gravity of vehicle	Unladen at Z (BEP H044)	mm	954.00
Side member height	(BEP H032)	mm	266.00

TOWING DEVICE

Wheelbase		mm	3.800
Distance between the front of the vehicle and the centre of the trailer coupling device	(BEP L073 + L016)	mm	4490.00
Distance between centre of last axle to centre of coupling device		mm	
Fifth wheel height, from top of side member	(BEP H074 + H071)	mm	201.00
Fifth wheel height from ground	Unladen (BEP H076)	mm	1157
	Laden (BEP H078)	mm	1130
Swept Swing Clearance	(BEP L078)	mm	2087.00
Fifth wheel position	Max. (Ymax / BEP L075)	mm	850
Gross Vehicle Weight	at YMAX	Kg	18000.00
Gross Vehicle Weight, load on front axle(s)	at YMAX	Kg	8000.00
Gross Vehicle Weight, load on rear axle(s)	at YMAX	Kg	10000.00
King Pin Load	at YMAX	Kg	9445.00
King Pin Load on Front Axle(s)	at YMAX	Kg	2122.00
King Pin Load on RearAxle(s)	at YMAX	Kg	7323.00
Fifth wheel position	Min. (Ymin / BEP L077)	mm	150
Gross Vehicle Weight	at YMIN	Kg	18000.00
Gross Vehicle Weight, load on front axle(s)	at YMIN	Kg	6500.00
Gross Vehicle Weight, load on rear axle(s)	at YMIN	Kg	11500.00
King Pin Load	at YMIN	Kg	9445.00
King Pin Load on Front Axle(s)	at YMIN	Kg	622.00
King Pin Load on RearAxle(s)	at YMIN	Kg	8823.00
Fifth wheel position	Manufacturer's recommendation (Y / BEP L076)	mm	675
Gross Vehicle Weight	in fifth wheel position recommended by manufacturer	Kg	18000.00
Gross Vehicle Weight, load on front axle(s)	in fifth wheel position recommended by manufacturer	Kg	7556.00
Gross Vehicle Weight, load on rear axle(s)	in fifth wheel position recommended by manufacturer	Kg	10444.00
King Pin Load	in fifth wheel position recommended by manufacturer	Kg	9445.00
King Pin Load on Front Axle(s)	in fifth wheel position recommended by manufacturer	Kg	1678.00
King Pin Load on RearAxle(s)	in fifth wheel position recommended by manufacturer	Kg	7767.00
Fifth wheel position	Intermediate 1	mm	625.00
Gross Vehicle Weight	in intermediate fifth wheel position 1	Kg	18000.00
Gross Vehicle Weight, load on front axle(s)	in intermediate fifth wheel position 1	Kg	7431.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 1	Kg	10569.00
King Pin Load	in intermediate fifth wheel position 1	Kg	9445.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 1	Kg	1553.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 1	Kg	7892.00
Fifth wheel position	Intermediate 2	mm	575.00
Gross Vehicle Weight	in intermediate fifth wheel position 2	Kg	18000.00
Gross Vehicle Weight, load on front axle(s)	in intermediate fifth wheel position 2	Kg	7307.00
Gross Vehicle Weight, load on rear axle(s)	in intermediate fifth wheel position 2	Kg	10693.00
King Pin Load	in intermediate fifth wheel position 2	Kg	9445.00
King Pin Load on Front Axle(s)	in intermediate fifth wheel position 2	Kg	1429.00
King Pin Load on RearAxle(s)	in intermediate fifth wheel position 2	Kg	8016.00
Sliding fifth wheel	front fork	mm	
	rear yoke	mm	



WIDTHS

Wheelbase		mm	3.800
Max exterior cab width with rear view mirrors open	(BEP W001)	mm	2980.00
Max. cab width	(BEP W002)	mm	2534
Frame width	Front (BEP W035)	mm	1080
	Rear (BEP W036)	mm	851
Width at rear wheels	Rear axle 1 (V3 / BEP W003.2)	mm	2499
Track	Front (V1 / BEP W013.1)	mm	2109
	Rear 1 (V2 / BEP W013.2)	mm	1837

OTHER

Wheelbase		mm	3.800
Approach angle	(BEP H010)	°	14
Ramp angle	(BEP H012)	°	13.80
Departure angle	(BEP H011)	°	17.00
Side member thickness	(BEP W034)	mm	8.00
Turning Radius	Overall (BEP W012)	mm	7550.00
	kerb to kerb	mm	6894.50
	interior	mm	3118.00

DTI 13 ENGINE

Max. power: 353 kW from 1404 to 1800 rpm

Max. torque: 2400 Nm from 950 rpm to 1404 rpm

6-cylinder in-line diesel engine - Common rail high-pressure fuel-injection (2000 bar) - 24 valves - overhead camshaft, rear-mounted timing

High pressure provided by three pumps on injector bodies.

Bore 131 mm - stroke 158 mm - Capacity 12.8 L

Electronically-controlled fan

Turbocharger

Direction of rotation (seen from gearbox end): anti-clockwise

Oil filter with additive

Oil service interval up to 150,000 km

Engine adapted to sulphur diesel

EEC EURO VI pollution control level

Compact after-treatment system (catalytic converter, DPF, SCR)

Cooling liquid

Automatic regeneration of particulate filter

ENGINE EQUIPMENT

Power mode inhibited after passing the 'hard spot' of the accelerator pedal

Partial gas recycling (semi-closed circuit)

Automatic engine cut-off (5 min)

Without engine Power Take Off.

Electronic speed limiter (90 km/h).

Customer speed reduction to 85 km/h

CLUTCH

Single-plate clutch, diameter 430 mm

GEARBOX

Optidriver AT 2612F gearbox (14.94 - 1) with automatic clutch. Aluminium housing.

Max. torque 2550 Nm, 12 forwards gears and 3 reverse gears.

Steering wheel-mounted operating mode selection (automatic/manual) via gear shift selector.

Optivision Map Based gear shift strategy for FUEL ECO (anticipation of topography and centralised data storage).

Gearbox rear intermediate housing in aluminium

Gearbox oil cooler, oil/water heat exchanger

RETARDER

OPTIBRAKE+ (power rating 382 kW at 2300 rpm):



combination of the exhaust brake and valve compression braking, coupled to service brake

POWER TAKE-OFF

Without gearbox mounted PTO

STEERING

Hydraulic power steering, variable flow pump
Steering ratio 20:1 - Steering wheel diameter 460 mm
Driving on the right

FRONT AXLE

Axle with zero-maintenance steering knuckles
Front load capacity (technical max.): 8 t

WHEELS AND TYRES

Dimension 385/65 + 315/70 R22.5
Profile B. DURAVIS R-STEER 2 EVO/ R-DRIVE 2
Steel disc wheels
Steel front wheel trims
Without spare wheel.

REAR DRIVE AXLE

P13170-E single reduction final drive axle
Integral differential lock
Rear loading capacity (technical max.): 13 t
Drive axle ratio: 2.47
Engine speed at 90 km/h: 1198 rpm

Service brake:

Twin-cylinder air compressor 900 l/min, 636 cm³
Braking system with two independent circuits.
Ventilated disc brakes.
Electronic management of air production by EACU (Electronic Air Control Unit):
Dryer cartridge optimised by preventive maintenance.
Steel protective cover on EACU
Disengageable air compressor
Two line trailer braking system (ISO connections).
15-pin electrical accessories socket
Downward orientation of air hoses
Trailer brake device at cab rear

EBS:

Anti-lock braking system (ABS).
Anti-slip regulation (ASR).
Brake balancing between tractor unit and trailer.
(Disc) brake pad wear compensation
Retarder and service brake linking
Differential engagement management (if equipped) at speeds <10 km/h (4x2)
Hill Start Assist
Braking performance warning

ESC (Electronic Stability Control) trajectory control and anti-rollover system
Coupling traction test
Emergency brake assist (EBA)

Parking brake:

EPB (Electronic Parking Brake) automatic parking brake, immobilization provided by spring cylinders

Brake adjustment:

Automatic brake lining slack compensation.

Emergency brake:

Ensured by independence of main device circuits

CAB

Cab exterior:

High Sleeper cab
All steel Cab, electro-zinc plated and cathophoretic paint treatment.
Cab paint colour: White ekla
technical code: 09350
Red badge
Aerodynamic dirt deflectors on the headlamps
4-point cab air suspension with ride-height control system
Four side storage compartments of which one is accessible from inside the cab
2 heated, remote control rear view mirrors.
2 wide angle rearview mirrors.
Kerb view mirror.
Rear view mirrors for bodywork up to 2.55 m wide
Fold-back front view mirror
Air horn
Laminated side windows.
Spray suppression on front wings
Fixed roof deflector
Side deflectors (left-hand opening panel)
Door extensions (step cover)
Exterior parts finished in cab colour
Wide external sun visor
Tinted, laminated windscreen.

Cab interior:

Cab interior finish - Anthracite
Performance roof console, 4 storage compartments with doors including 1 with key lock, 1 storage space with net, 4 ISO modules
Electric interior sun blind on windscreen and manual blind on driver's side window
CB pre-equipment.
DTCO 4.0 digital chronotachograph
Offset 24 V socket
Electrically operated roof hatch with controls at the driver's position and in the bunk area
Mosquito net on air vent
Heating system (driver's seat)
Two driver's armrests
Red seat belts
Seat belt fastened reminder



Air suspension
Adjustable vertical damping
Neck support
Height-adjustable
Easy Access
Stowage on rear of seat back
2 arm rests
Two passenger armrests
 Cloth fabric trim
 Sérénité bottom bunk
Convertible top bunk
 Blower
Air blower inside the cab
 Grand volume drawer under bunk
Cab interior lighting management rotary control (Activity/Rest/Night driving), brightness adjustment
Reading lamps on overhead console
LED direct and indirect cab lighting
Red night lighting covering 3 rows on the overhead console and on the dashboard
 Cab lighting time-delay.
Curtains with insulation around the cab and bunk separation
Articulated LED lamps in bunk area
Remote control for comfort functions in bunk area with integrated display
 12 V & 5 V socket (bunk)
40L refrigerator in central storage under bench, quiet with thermostat and vehicle battery management
 2 storage boxes under bunk, one accessible from interior and exterior
First-aid box
 Driver's window with impulse control.
 Cab independent night heater air/air (2 kW)
 Reinforced heat insulation
 Electronic air conditioning.
 Cab air filtration
Handbook and Service pack in Russian.
 4 loudspeakers and 2 tweeters
Fire extinguisher 3kg

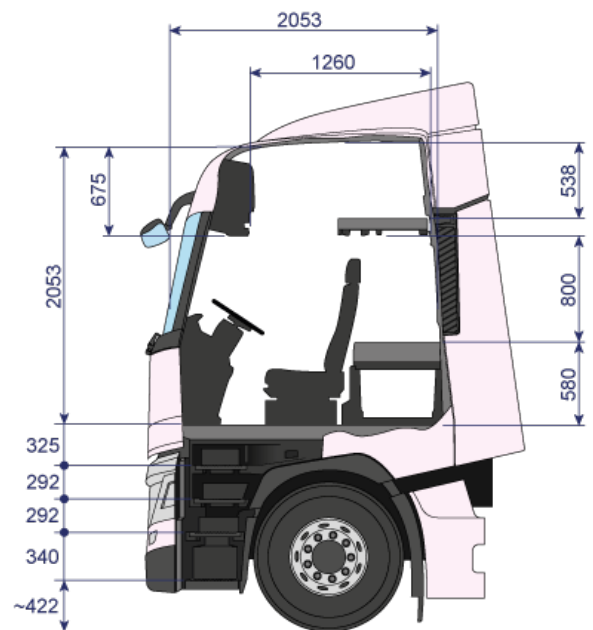
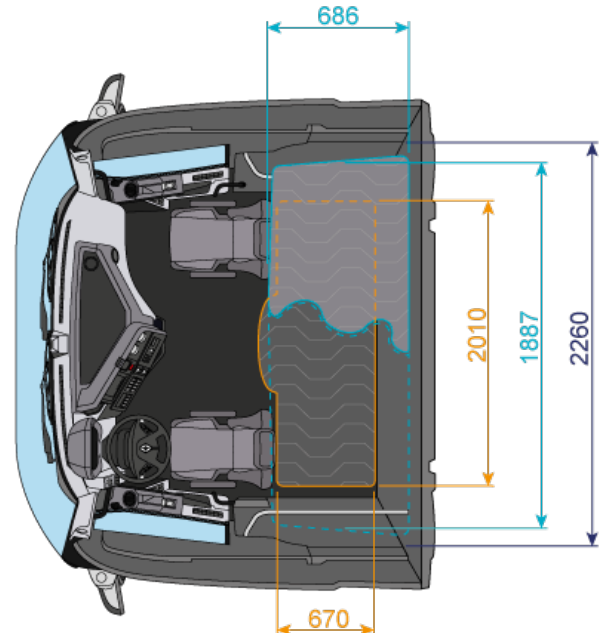
Steering wheel equipment:

Ultimate leather steering wheel with cruise control and telephone control
 OPTIDRIVER control
 OPTIBRAKE and retarder control on right-hand side
 3-way adjustable steering column
 Mono CD player, MP3/WMA format-compatible
 Double tuner for immediate radio station list update
 Steering column-mounted radio controls
 Jack (3.5 mm) and USB inputs for MP3 player
 Hands-free interface for mobile telephone (Bluetooth technology), Audio streaming, steering wheel controls, microphone in the roof console, audio playback through vehicle speakers
 Information on the main information display

Instrument panel:

PANORAMIC dashboard
 7" HD colour information display
 12 V + 24 V socket on dashboard, for accessories.
 Starting inhibitor controlled by transponder key.

Remote control central door locking with folding key
 Start button
 Customer speed +5 km/h downhill
ECO Cruise control with Optiroll
Power mode inhibited after passing the 'hard spot' of the accelerator pedal
Without Eco Off switch



ELECTRONIC EQUIPMENT:

English and Russian language display
 Additional language (Lithuanian)
 SAE cab socket for vehicle data extraction



Load per axle indicator
Toll Collect pre-equipment

FMS Gateway fleet management interface 3.0
Assistance button for geolocation via the 24/7 platform
Lane Departure Warning System (LDWS)
Advanced emergency braking system (AEBS)

ELECTRICAL EQUIPMENT

Batteries located in the rear overhang
Two 12 V, 210 Ah, 800 A gel batteries
Maintenance-free batteries
Battery cut-out remote control
Electrical circuit automatically goes to standby
Battery charge indicator
Alternator : 150 amp capacity.
Rear signalling lighting.

CHASSIS

Chassis protective paintwork, mineral grey colour
technical code: 03650
Removable front towing cap.
Front under-run protection.
Closing cross member with pre-drilling for towing yoke
Low fifth wheel mounting H=16 mm
Jost JSK 42C, 2" cast iron fifth wheel, D 152 kN
Fifth wheel position: Y = 675 mm
Rear manwalk.
Rear wings with anti-spray
Wings fitted in standard position.
1 foldaway wheel chock
Side exhaust.
Equipment in kit on chassis prepared for lorry transport

BUMPER - STEPS AND LIGHTING

Plastic bumper without spoiler
Retractable windscreen access step in radiator grille
Access to driving position by 4 steps
Step lighting.
BUMPER CORNERS AND CENTER PAINTED IN BLACK
Lighting adjustment
LED day running lights
Provision for lighting rail on roof
White LED work light (850 lm)
Front fog lights.
Fixed Bending Lights
LED lights
Roof beacon pre-equipment

SUSPENSION

Front suspension

2-leaf front leaf springs
Stabiliser bar

Rear suspension:

Rear air suspension.
Suspension remote control

FUEL TANK

Main and additional aluminium tanks.
Main fuel tank: 450 litres capacity D710 profile mounted on right
Main fuel tank: 900 litres capacity D710 profile mounted on left & with access steps
Fuel filter heater
Heavy duty sedimenter and prefilter (R90).Bleed control on dashboard.

AdBlue

100-litre AdBlue tank
Urea tank on the right

STANDARD EQUIPMENT

Tool kit.
Jack 12t
Two warning triangles.
Reversing warning buzzer, including night switch.
Windscreen washer bottle capacity: 12L

BODYWORK

Provision for rear loading lighting
Orange LED side marker lights with reflector
Bodybuilder connection interface

SERVICE

Optifleet:

Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 6-month prepaid subscription
Optifleet Map: vehicle geolocation, geofencing and route analysis, 6-month prepaid subscription

GEARBOX RATIOS

1	2	3	4	5	6	7	8	9	10	11	12
14.94	11.73	9.04	7.09	5.54	4.35	3.44	2.70	2.08	1.63	1.27	1.00

The manufacturer reserves the right to modify the specifications above without prior notice.

Non contractual document.

For further assistance please contact Product Applications at Renault Trucks UK Limited, Wedgnock Lane , Warwick , CV34 5YA Telephone +44 (0)1926 475333.



