

## TATA MOTORS

All Dealers / TASSs'

SC/ 2013/ 45	Model : 2528.K 6X4 BSIII	Group: 00	July'13
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**Subject: Introduction of 2528.K 45WB 6X4 BS-III**

We are pleased to inform you about introduction of 2528.K 45WB 6X4 model. This is BS-III compliant vehicle.

Salient feature of the model are as following:

- It's a construction-application based tipper, with a larger load body and longer wheelbase.



**Chassis Type Designation:**

Model	Chassis Barrel	VC No
2528.K 6X4 BSIII	MAT713105	50210845R

**We are enclosing following details about the vehicle:**

- Technical Specifications (Annexure - 1)
- Lube details (Annexure - 2)
- Unique part no. for Propeller shaft and Chassis frame (Annexure - 3)
- Warranty and Free Service (Annexure - 4)

**CUSTOMER CARE (COMMERCIAL VEHICLE BUSINESS UNIT)**

*(As per policy of Tata Motors to continuously improve their products, the company reserves the right to make changes of any nature on vehicles and aggregates without any obligation to incorporate them on previous vehicle)*

## Annexure - 1 Technical Specification:

Engine	
Engine	Cummins ISBe 270 Euro-III
Engine Type	Water cooled direct injection, turbocharged,intercooled diesel Engine.
Bore / Stroke (mm)	107mm/124
Engine Capacity (cc)	6700
Capacity Of Cooling System (Ltrs)	9.4 (Engine) 28(Total)
Compression Ratio	17.3:1
Coolant	Water & Ethylene Glycol,in 1:1 ratio by volume.
Crankcase Oil Capacity (Ltrs)	High -17.5 Low -15.0 Total-19.5
Firing Order	1-5-3-6-2-4
Fuel Filter	Pre and fine filtration with water separator
Fuel Injection Pump	HPCR
Governor	In -built Centrifugal with Electronic output
Oil Filter	Full flow spin on paper type
MAX Engine Output	266 BHP @ 2500 RPM
MAX. Torque	970 Nm at 1200-1700 rpm
No Of Cylinders	6 Inline
Air Filter	Dry type remote mounted,2 Stage
Radiator Frontal Area	0.587 Sq.Meter
Turbo Charger	HOLSET
Weight Of Engine (Kg)	610 kg (Dry)
Engine Fan Type	8 blade, 26"Viscous fan.
Clutch	
Outside Diameter of Clutch Lining (mm)	430
Engine Clutch Type	Single plate, Dry friction, pull type
Type of Actuation	Hydraulic with Pneumatic assistance
Transmission	
Model	ZF 9S1110 TD
Type	Synchromesh on all forward gears constant mesh on reverse gears &crawler
No. Of Gears	9 Forward and 1Reverse
Gear Ratios	Crawler -12.73, 1st -8.83,2nd- 6.28,3rd-4.64,4th -3.48, 5th -2.54,6th -1.81,7th -1.34, 8th -1.00,Rev - 13.04
Tipper Body	
Capacity of Tipper Body	18 cu m Box Body
Type of Tipper Body	Box type body with sub-frame for construction application.
Angle of Tip	52 deg
Tipping Gear	Front end Tipping gear pivoted to the sub frame. PTO, pump & hydraulic tilt cylinder-4 stage and complete hydraulic fittings
Rear axle	
Model	Tata HR-210-T
Type	Planetary Hub Reduction ,Fully Floating axle shaft
Ratio	5.492
Design capacity	Rear forward and rear rear both 16 ton.
Front axle	
Type	Forged I beam Reverse Elliot type
Design capacity	7.5 ton

Electrical Specification	
System Voltage	24 Volts
Alternator Capacity (Amp)	28V ,90 Amps
Battery	2 X 12V, 150Ah
Cab/ Cowl	
Cabin Type	Prima CAB
Wheels and Tyres	
No. Of Wheels/Tyres	Front -2, Drive -8, Spare -1
Tyres	11.00 x 20-16PR Rib at front 11.00 x 20-16PR Lug at rear
Wheel Rims	8.00 X 20
Frame	
Type	Ladder type heavy duty frame with riveted/bolted cross members. Side members are of channel section F3 type (320mmX90mmX8mm)
Width (mm)	Front-950mm Rear-850mm
Brakes	
Brake Drum Diameter (mm)	410 X 200 - Front 410 X 200 - Drive
Lining Area (cm2)	Front - 1120 x 2 Total - 2240 Drive - 1240 x 4 Total - 4960
Service Brakes	Full Air Dual circuit - S Cam with ABS Brake Adjuster- Auto slack adjuster 160mm length
Parking Brake Description	Hand Operated -Air assisted spring actuated parking brake acting on rear
Type	Air assisted parking brake acting on rear wheels
Engine Exhaust Brake	Electro -Pneumatically operated coupled with service brake
Steering	
Type	Hydraulic Power Steering (Rane)
Ratio	Variable ratio (22.2:1 to 26.2:1)
Suspension	
Type	Parabolic Spring at front & two spring balance beam bogie with semi elliptic multi spring & rubber mounted.
Leaf Width (mm)	Front - 90 Rear - 90
Shock absorber	Hydraulic double acting telescopic type at front only.
Spring Span (mm)	Front-1750 Rear-1450
Antiroll bar	At front and rear rear axle
Design capacity	Front 7.5 ton Rear 40 ton
Fuel tank	
Type	Rectangular
Capacity (Ltrs)	260
Performance	
Max. Geared Speed in Top Gear (Kmph)	78
Max. Climbing Ability in 1st Gear	36.80%
Minimum Turning Circle Dia. (mm)	18350
Minimum Turning Clearance Circle Dia. (mm)	20710
Main chassis dimension (mm)	
Wheel Base	4570
Front Overhang	1482
Overall Length	7537 (8037 with Box Body)
Max. Width	2581 (2590 with Body)
Front Track	2038
Rear Track	1900
Weights (Kg)	
Bare Chassis Kerb Weight With Cowl	9330
Max. Permissible FAW	6000
Max. Permissible RAW	19000
Max. Permissible GVW	25000

## Annexure - 2

➤ Oils & Lubricants:

Oil Chart			
Aggregate	Filling capacity	Frequency of Oil change	Oil Grade
Engine Oil (ISBe)	19.5 Ltrs	1st: 500 Hrs 2nd: 500 Hrs Every 1000 Hrs subsequently	SAE 15W40 CI4+(with venturi-combo filter)
Gear Box (ZF 9S1110)	11.5 Ltrs	Every 1000 Hrs	SAE 80W90
Rear Axle (HR-210-T)	Rear Forward :29 Ltrs (24 Ltrs for center Diff + 2.5 Ltrs each Hub) Rear Rearward:17 Ltrs (12 Ltrs for center Diff + 2.5 Ltrs each Hub)	Every 2000 Hrs	SAE 80W140 Long Drain SS6578
Coolant	28 Ltrs	6000 Hrs	50% water+50% ethylene glycol
Power Steering Fluid	4 Ltrs	Every 2000 Hrs	ATF Dextron II, IID, III or Mercon Color ' <b>RED</b> '
Clutch oil	300 ml	Every 2000 Hrs	Hydraulic Brake fluid HD DOT-4 IS8654-205 SS7710 55130 86015 9
Tilt Cab Cylinder Oil	896 ml	Every 2000 Hrs	HVI 26
Tipper hydraulic system	50	Every 2000 Hrs	Anclo 68
Air Conditioning	450+20 gms	As Required	R134a Compressor Lub oil: ISU PAG 105
Front axle wheel hub greasing		Every 1000 Hrs	SKF VGK X/180

## Annexure - 3

➤ Unique part no. for Prop-shaft and chassis frame

Part No.	Part Description
502131000102	ASSY FRAME LPK2528(6X4) 45WB
502141100101	ASSY.PROP SHAFT FRONT (M/S SIL) WITH ZF GB
502141120101	ASSY PROP SHAFT INTERAXLE

## Annexure - 4

### ➤ Warranty:

Vehicles will be eligible for five Free Labour Services apart from Pre Delivery Inspection (PDI)

S.N.	Free Service	Hours	Period
1	PDI		
2	1st Service	500	8 months
3	2nd Service	1000	20 months
4	3rd Service	2000	30 months
5	4th Service	3000	40 months
6	5 <sup>th</sup> Service	4000	48 months

#### **Vehicle Warranty:**

Vehicle warranty for M&HCV with Cummins engine is 24 Months or 5000 hours from date of sale whichever is earlier.

#### **Driveline Warranty:**

Driveline warranty includes Engine, Transmission and Rear Axle warranty which is 48 Months or 5000 hours from date of sale whichever is earlier.

**Note: - In free service only labour is free and material is chargeable.**