

↳ SUBJECT TO CHANGE FOR PRODUCT IMPROVEMENT ↳

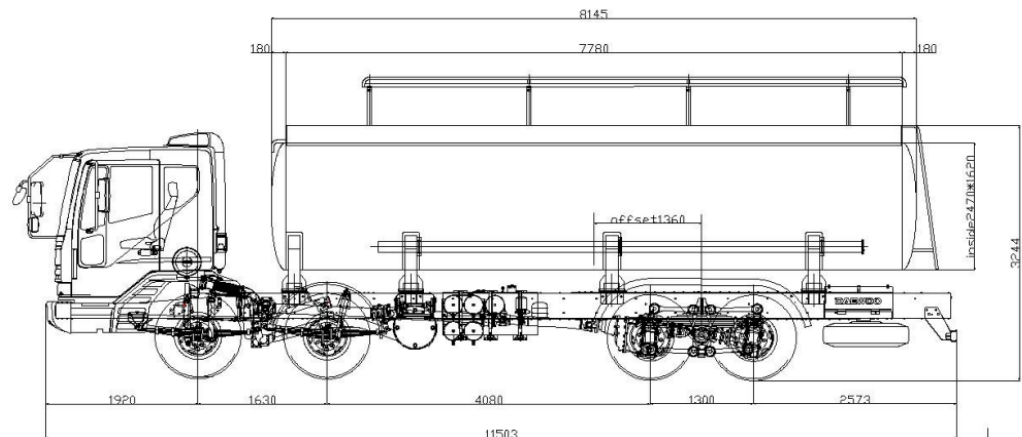
TATA DAEWOO HEAVY DUTY TRUCK  
**SPECIFICATIONS MANUAL**

*MODEL NAME : 8×4 FUEL TANK LORRY(25kl)*  
*MODEL CODE : M9AVF*

**JANUARY, 2015.**

**TATA DAEWOO COMMERCIAL VEHICLE CO., LTD.**

## o DIAGRAM



<b>o DIMENSIONS (mm)</b>	Overall	Length	OL	11,503
		Width	OW	2,490
	Tread	Height	OH	3,244
		Front	FT	2,050
		Rear	RT	1,855
	Wheelbase	WB	7,010	
	Rear axle to frame	AF	2,573	
	Ground to roof	GR	2,925	
	Frame-ground above bogie	R	1,110	
	Usable cab to axle	CA	6,035	
	Tank offset	OS	1,360	
	Ground to tank floor	GT	1,330	
	Min. ground clearance		270	
	Tank inside	Length		8,145
		Width		2,470
		Height		1,620
		Volume (m <sup>3</sup> )		27.0
		Loading capacity(kℓ)		25.0

<b>o WEIGHTS (kg)</b>	Chassis weight	Front	6,140
		Rear	4,330
		Total	10,470
	Curb weight		14,790
	Axle load	Front	13,000
		Rear	23,000
	Permissible G.V.W		36,000

<b>o PERFORMANCE</b>	Max. speed	(km/h)	110
	Max. gradeability	(%)	51.8
	Min. turning radius	(m)	10.7

o <b>ENGINE</b>	Manufacturer	Doosan Infracore
	Model	DV15TiS
	Emission certificate	EURO 2
	Type	Turbo charged, diesel engine
	Maximum power	420ps (313kw)/ 2,100rpm
	Maximum torque	170kg.m (1666N.m)/ 1,200rpm
	No. of cylinder	Vee-90 ° 8 cylinder
	Bore×Stroke	128×142(mm)
	Displacement	14,618cc
	Controoler type	Mechanical
	Air cleaner	Dry paper elements
o <b>CLUTCH</b>	Type	Hydraulic control with air assisted Dry single plate with diaphragm
	Plate diameter	Outside diameter : 430mm(17 ")
o <b>TRANSMISSION</b>	Manufacturer	ZF
	Model	16S1820TO
	Speed	16 Forward / 2 Reverse
	Gear ratio	13.80/11.54/9.49/7.93/6.53/5.46/ 4.57/3.82/3.02/2.53/2.08/1.74/1.43 1.20/1.00/0.84 12.92(R)/10.80(R)
o <b>FRONT AXLE</b>	Type	Reverse elliot "I" beam
	Axle capacity	13,000kg
o <b>REAR AXLE</b>	Manufacturer	S&T
	Model	T15HT
	Type	Banjo single reduction
	Final drive ratio	4.444
	Axle capacity	23,000kg
o <b>TIRE &amp; WHEEL</b>	Tire	12R-22.5-16PR
	Disc wheel	8.25×22.5
	No. of wheel studs	10

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o FRAME	Type	Ladder type, double channel
	Size (H×W×T)	320×90×(8+7) (mm)
	Towing hook	Frame width behind cab : 850mm Equipped front & rear
o STEERING	Handle position	Left-hand drive
	Type	Recirculating ball with integral power assisted by oil
	Steering column Steering wheel	Tilt & Telescopic 2-spoke wheel with horn button
o FRONT SUSPENSION	Type	Semi-elliptical leaf spring
	Size (L×W)	1,500mm×90mm
o REAR SUSPENSION	Type	Semi-elliptical leaf spring
	Size (L×W)	1,300mm×90mm
o BRAKE	Service brake	Full air brake with dual circuit
	Drum diameter	410mm
	Lining Front	414mm×155mm
	Rear	414mm×203mm
	Material	Non-asbestos
	Parking brake Auxiliary brake	Spring actuator at rear wheels Exhaust brake
o FUEL TANK	Volume	400 ℓ
	Material	Made of pressing steel
	Cap	Equipped key lock
o ELECTRICAL SYSTEM	Battery	12V - 150Ah×2
	Alternator	24V - 80A
	Starter	24V – 7.0kw
o EXHAUST SYSTEM	Type	Mounted longitudinal

o CAB	Type	All –welded cab of tilt type Hydraulic Tilt. Tilt angle 50°
	Number of crew	2
	Cab suspension	Coil spring & shock absorber
o INSTRUMENTATION	Gauges & meters	Speedometer, Water temperature gauge Air pressure gauge, fuel gauge Engine oil pressure gauge Engine tachometer gauge
o SEAT & BED	Driver seat	Height adjustable, rigid seat Sliding & reclining, Equipped with head rest
	Passenger seat	Rigid type, full folding & reclining
	Bed	Equipped one bed
	Covering	Tricot
o WIPER	Type	Two blade, 3-speed wiper with electrical washer
o HEATING		Heater & Defroster
o GLASS & MIRROR	Windshield	Laminated safety glass
	Door glass	Tempered safety glass
	Outside mirror	Convex mirror
o LAMP	Front	Head & fog lamp, turn signal lamp Position lamp
	Rear	Position, stop, turn signal lamp Reverse lamp License plate lamp
o TOOLS	Tools	Hydraulic Jack, Wrench monkey Wrench & Handle-Wheel nut Driver, Spare tire handle, etc
	Spare tire	12R22.5-16PR (1EA)

o GEAR PUMP	Specification	Gear type with By-Pass valve
	Bore size	80mm (suction & discharge)
	Suction pressure	380 mmHg
	Discharge pressure	2.3 kg/cm <sup>2</sup> (normal)
		3.0 kg/cm <sup>2</sup> (maximum)
	Capacity	1000 ℓ /min
	RPM	600 ~ 700 min
o VALVES	Quantity	1 EA
	2-way valve	3 inch, 4EA Located under each compartment
	Bottom valve	3 inch, 4EA Located under each compartment air cylinder type
o P.T.O	Type	T/M P.T.O
	P.T.O Switch	Located in the cab
o DRIVE SHAFT		Connected T/M P.T.O to pump
o TANK EQUIPMENT	Loading type	Top loading (manhole)
	Material	<b>AL5186. AL5083</b>
	Baffle plate	5EA, Located inside tank Preventing loaded petroleum From baffling
		6EA, Located on the tank
	Manhole	2EA, Located each side of tank
	Hose box	Located in the upper part of tank
	Top fence	
o OTHERS	Emergency cont. lever	Located at the rear part of tank
	Safety valve	Located on the manhole cover at the each compartment
	Loading/Unloading Hose	3inch x 6M x 2EA with quick coupling
	Indicator	Located on the valve each compartment
	paint	External – Urethane paint