

B60E 4x4 Articulated Dump Truck

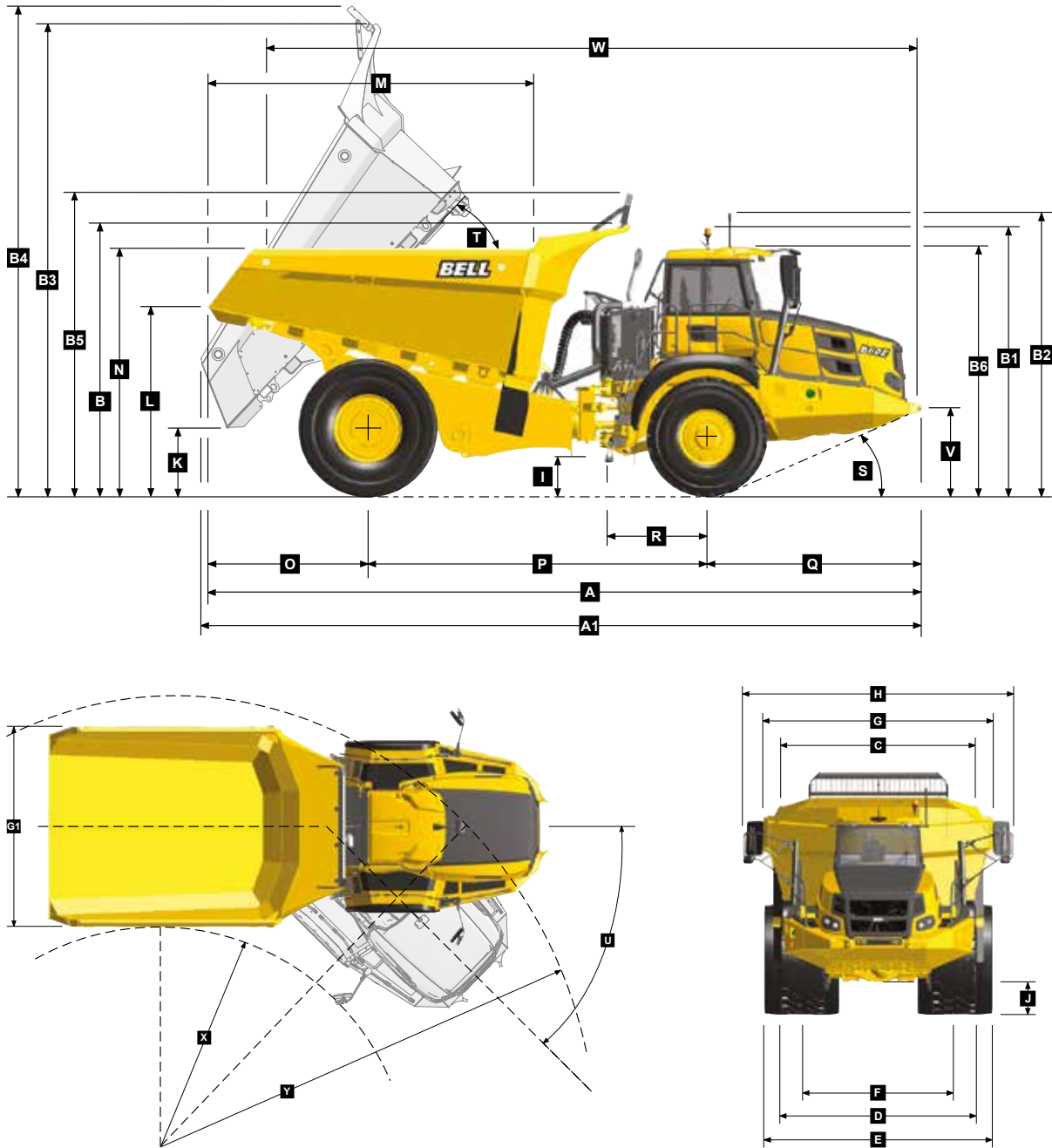
ENGINE	TRANSFER CASE	Total Retardation Power	DUMPING SYSTEM
Manufacturer Mercedes Benz (MTU)	Manufacturer Kessler	Continuous: 574 kW (770 hp) Maximum: 983 kW (1 318 hp)	Two double-acting, two stage telescopic, dump cylinders
Model OM473LA (MTU 6R 1500)	Series W2400		Raise Time 18 seconds
Configuration Inline 6, turbocharged and intercooled	Layout Remote mounted	WHEELS	Lowering Time 16,5 seconds
Maximum Net Power 430 kW (577 hp) at 1 600 rpm in accordance with UN ECE R120	Gear Layout Three in-line helical gears	Type Radial Earthmover	Tipping Angle 55 deg standard, or any lower angle programmable
Gross Torque 2 850 Nm (2 102 lbft) @ 1 300 rpm	Output Differential Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.	Tyre Front: 875/65 R29 Rear: 24.00 R 35 Dual	
Displacement 15,6 litres (952 cu.in)	AXLES	FRONT SUSPENSION	PNEUMATIC SYSTEM
Auxiliary Brake Jacobs Engine Brake®	Manufacturer Front - Bell Rear - Kessler	Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts. Active dual springrate Comfort Ride suspension, including height control.	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.
Fuel Tank Capacity 630 litres (166 US gal)	Model Front: 30T Rear: 71T	REAR SUSPENSION	System Pressure 8,1 Bar (117 psi)
Certification OM473LA (MTU 6R 1500) is EU Stage IIIA emission level equivalent.	Differential Front: High input controlled traction differential with spiral bevel gears. Rear: Centre input open differential with spiral bevel gears.	Trailing arm cradle supported by hydro-pneumatic suspension struts, with an additional lateral stabiliser.	ELECTRICAL SYSTEM
TRANSMISSION	Final Drive Outboard heavy duty planetary on all axles	HYDRAULIC SYSTEM	Voltage 24 V
Manufacturer Allison	BRAKING SYSTEM	Full load sensing system serving the prioritized steering, body tipping, suspension and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system.	Battery Type Two AGM (Absorption Glass Mat) type
Model 4800 ORS	Service Brake Dual circuit, full hydraulic actuation wet disc brakes on front and rear axles. Wet brake oil is circulated through a filtration and cooling system.	Pump Type Variable displacement load sensing piston	Battery Capacity 2 X 75 Ah
Configuration Fully automatic planetary transmission		Flow 300 L/min (79 gal/min)	Alternator Rating 28 V 100 A
Layout Engine mounted		Pressure 280 Bar (4 060 psi)	
Gear Layout Constant meshing planetary gears, clutch operated		Filter 5 microns	MAX. VEHICLE SPEED
Gears 7 Forward, 1 Reverse	Park & Emergency Spring applied, air released driveline mounted disc		1st 4 km/h 2,5 mph
Clutch Type Hydraulically operated multi-disc	Maximum brake force: 446 kN (100 264 lbf)		2nd 8 km/h 5,6 mph
Control Type Electronic	Maximum brake force: 341 kN (76 659 lbf)		3rd 16 km/h 10,6 mph
Torque Control Hydrodynamic with lock-up in all gears	Auxiliary Brake Automatic Jacobs Engine Brake®. Automatic retardation through electronic activation of wet brake system.	STEERING SYSTEM	4th 21 km/h 13,7 mph
		Double acting cylinders, with ground-driven emergency steering pump.	5th 30 km/h 20 mph
		Lock to lock turns 5,5	6th 41 km/h 27 mph
		Steering Angle 42°	7th 47 km/h 32 mph
			R 6 km/h 4 mph
			CAB
			ROPS/FOPS certified 77 dBA internal sound pressure measured according to ISO 6396.

Load Capacity & Ground Pressure

OPERATING WEIGHTS*		GROUND PRESSURE*		LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN		BODY	m³ (yd³)		kg (lb)
Front	20 643 (45 510)	(No sinkage or Total Contact Area)		Struck Capacity	27 (35,3)	Bin liner	1 117 (2 463)
Rear	22 235 (49 020)	875/65 R29	kPa (Psi)	SAE 2:1 Capacity	35 (45,8)	Tailgate	1 512 (3 333)
Total	42 878 (94 530)	Front	333 (48,2)	SAE 1:1 Capacity	42 (54,9)		
				SAE 2:1 Capacity		EXTRA WHEELSET	
LADEN		24.00 R35	kPa	with Tailgate	36 (47,1)	875/65 R29	1 338 (2 950)
Front	27 243 (60 061)	Rear	478 (69,3)			24.00 R35	1 240 (2 734)
Rear	70 635 (155 724)			Rated Payload	55 000 kg		
Total	97 878 (215 784)				(121 254 lb)		

* including additional equipment (tailgate)

Dimensions

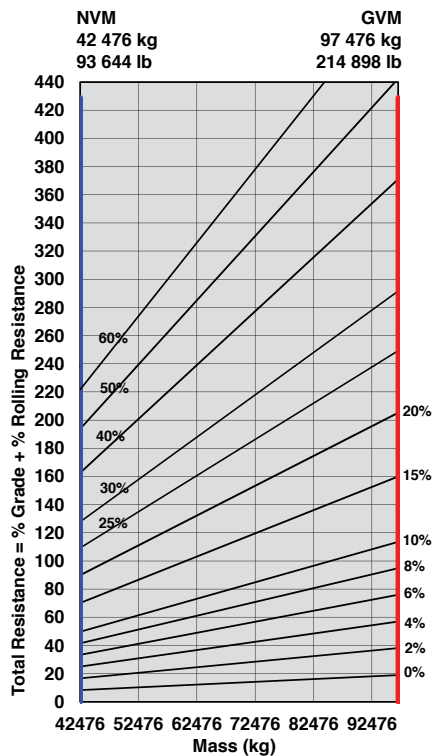
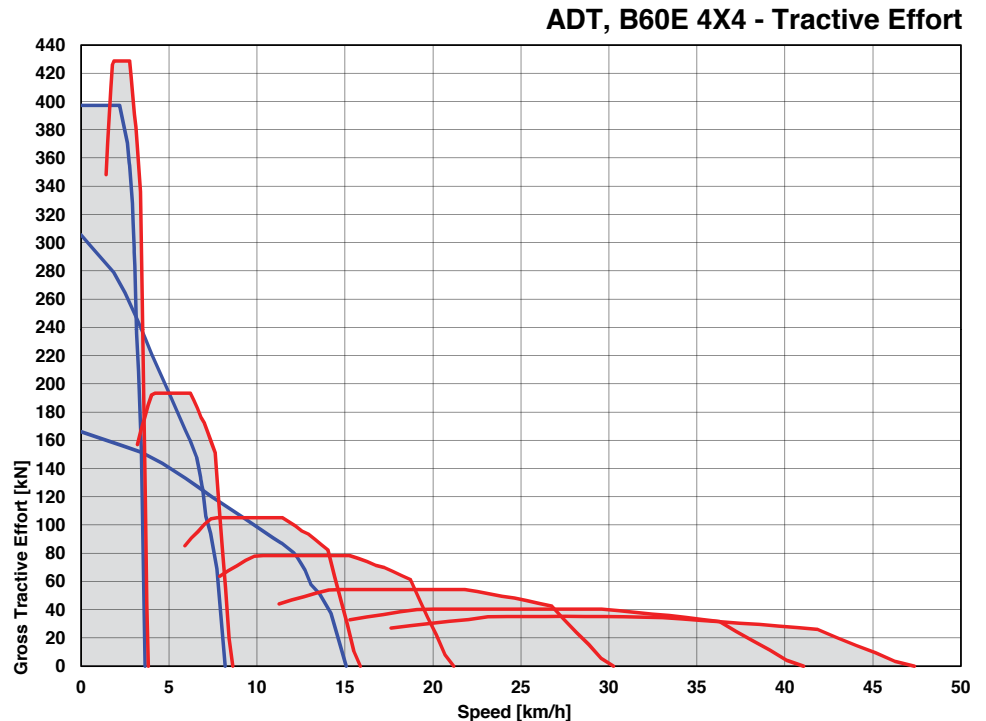


Machine Dimensions

A	Length - Transport Position	11 114 mm (36 ft. 6 in.)	I	Ground Clearance - Artic	561 mm (22.09 in.)
A1	Length - Bin Fully Tipped	11 189 mm (36 ft. 9 in.)	J	Ground Clearance - Front Axle	554 mm (21.81 in.)
B	Height - Transport Position w/o Rock Guard	4 191 mm (13 ft. 9 in.)	K	Ground Clearance - Bin Fully Tipped	852 mm (34 in.)
B	Height - Transport Position with Rock Guard	4 206 mm (13 ft. 10 in.)	L	Bin Lip Height - Transport Position	2 954 mm (9 ft. 8 in.)
B1	Height - Rotating Beacon	4 112 mm (13 ft. 6 in.)	M	Bin Length	5 041 mm (16 ft. 6 in.)
B2	Height - Load Light	4 335 mm (14 ft. 3 in.)	N	Load over Height	3 833 mm (12 ft. 7 in.)
B3	Bin Height - Fully Tipped w/o Rock Guard	7 402 mm (24 ft. 3 in.)	O	Rear Axle Centre to Bin Rear	2 477 mm (8 ft. 2 in.)
B4	Bin Height - Fully Tipped with Rock Guard	7 625 mm (25 ft.)	P	Rear Axle Centre to Front Axle Centre	5 285 mm (17 ft. 4 in.)
B5	Height - Rock Guard Operating Position	4 669 mm (15 ft. 4 in.)	Q	Front Axle Centre to Machine Front	3 352 mm (10 ft. 12 in.)
B6	Height - Cab	3 813 mm (12 ft. 6 in.)	R	Front Axle Centre to Artic Centre	1 558 mm (5 ft. 1 in.)
C	Width over Mudguards	3 790 mm (12 ft. 5 in.)	S	Approach Angle	22°
D	Width over Tyres - Front - 875/65 R29	3 832 mm (12 ft. 7 in.)	T	Maximum Bin Tip Angle	55°
E	Width over Tyres - Rear - 24.00R35	4 444 mm (14 ft. 7 in.)	U	Maximum Articulation Angle	42°
F	Tyre Track Width - Front	2 949 mm (9 ft. 8 in.)	V	Front Tie Down Height	1 263 mm (4 ft. 2 in.)
F	Tyre Track Width - Rear	2 992 mm (9 ft. 10 in.)	W	Machine Lifting Centres	10 116 mm (33 ft. 2 in.)
G	Width over Bin	4 487 mm (14 ft. 9 in.)	X	Inner Turning Circle Radius	4 246 mm (13 ft. 11 in.)
G1	Width over Tailgate	4 800 mm (15 ft. 9 in.)	Y	Outer Turning Circle Radius	9 216 mm (30 ft. 3 in.)
H	Width over Mirrors - Operating Position	5 283 mm (17 ft. 4 in.)			

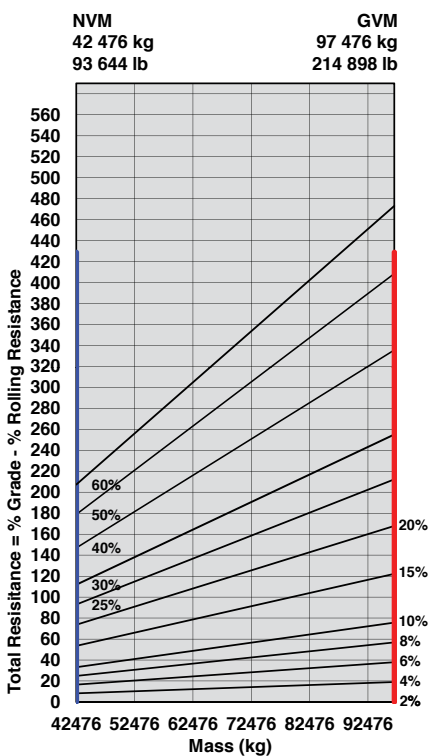
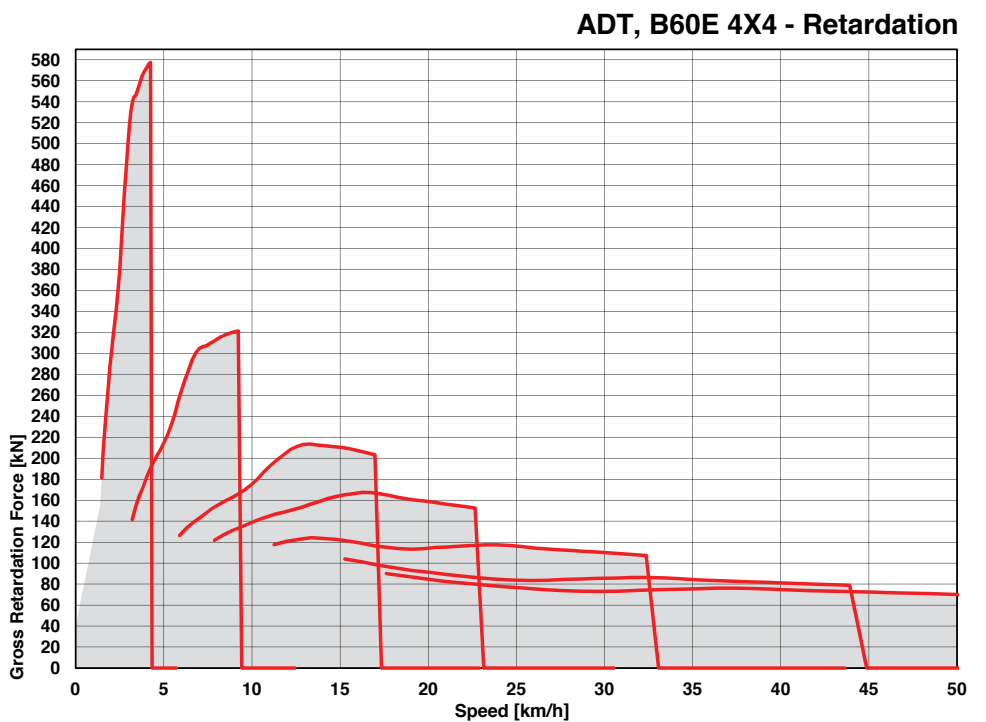
Gradeability/Rimpull

1. Determine tractive resistance by finding intersection of vehicle mass line and grade line. NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.



Retardation

1. Determine retardation force required by finding intersection of vehicle mass line.
2. From this intersection, move straight right across charts until line intersects the curve. NOTE: 2% typical rolling resistance is already assumed in chart.
3. Read down from this point to determine maximum speed.



B30E 4x4	B45E 4x4	B60E 4x4	
●	●	●	ENGINE
●	●	●	Jacobs Engine Brake®
●	●	●	Dual element air cleaner with dust ejector valve
●	●	●	Pre-cleaner with automatic dust scavenging
●	●	●	Water separator
●	●	●	Serpentine drive belt with automatic tensioner
●	●	●	Provision for fast fill
	●	●	Wet-sleeve cylinder liners
●	●	●	COOLING
●	●	●	Crankshaft mounted electronically controlled viscous fan drive
●	●	●	Fan guard
●	●	●	PNEUMATIC SYSTEM
●	●	●	Engine-mounted compressor
●	●	●	Air drier with heater
●	●	●	Integral unloader valve
●	●	●	ELECTRICAL SYSTEM
●	●	●	Battery disconnect
●	●	●	Halogen drive lights
	▲	●	LED drive lights
●	●	●	Air horn
●	●	●	Reverse alarm
▲	▲	▲	White noise reverse alarm
●	●	●	Rotating beacon
●	●	●	Pitch roll sensor
▲	▲	●	LED Artic reverse light
●	●	●	Halogen artic reverse lights
●	●	●	LED reverse lights
●	●	●	STEERING SYSTEM
●	●	●	Bi-directional ground-driven secondary steering pump
●	●	●	CAB
●	●	●	ROPS/FOPS certification
●	●	●	Tilt cab
●	●	●	Gas strut-supported door
●	●	●	I-Tip programmable dump-body tip settings
●	●	●	HVAC Climate control system
●	●	●	AM/FM radio with Aux + USB
●	●	●	Rear window guard
●	●	●	Wiper/washer with intermittent control
●	●	●	Tilt and telescoping steering wheel
●	●	●	Center-mount air-suspension seat
●	●	●	Halogen work lights
▲	▲	●	LED work lights
▲	▲	▲	Rotating beacon: seat belt installation
▲	▲	▲	Remote engine and machine isolation
●	●	●	Remote battery jump start
●	●	●	Retractable 3 point seat belt
●	●	●	Heated seat
●	●	●	Foldaway trainer seat with retractable seat belt
●	●	●	12-volt power outlet
●	●	●	Cab utility bin (removable)
●	●	●	Cup holder
●	●	●	Cooled/heated lunch box
●	●	●	Manually adjusted mirrors
▲	▲	▲	Electric adjustable and heated mirrors

B30E 4x4	B45E 4x4	B60E 4x4	
●	●	●	CAB (continued)
●	●	●	Deluxe 10" color LCD:
			Speedometer / Fuel gauge /
			Transmission oil temperature gauge /
			Engine coolant temperature gauge /
			LED function/warning indicators and audible alarm / Transmission gear selection /
			Tachometer / Battery voltage / Hour meter /
			Odometer / Fuel consumption / Tip counter /
			Trip timer / Trip distance / Metric/English units /
			Service codes/diagnostics
●	●	●	Backlit sealed switch module functions with:
			Wiper control / Lights / Heated mirrors /
			Retarding aggressiveness / Transfer case differential lock / Transmission gear hold /
			Dump-body tip limit / Automatic dump-body tip settings / Air conditioner/ Heater controls /
			Preselected Speed Control
●	●	●	DUMP BODY
●	●	●	Dump body mechanical lock
▲	▲	▲	Partial body liner
▲	▲	▲	Tailgate
▲	▲	▲	Body heater
	▲	▲	Bin pole lockout
	▲	▲	Narrow bin body
	●	●	Rear wheel mudguards
	▲	▲	Rear wheel bin rock guards
●	●	●	OTHER
●	●	●	Automatic Traction Control (ATC)
●	●	●	Wet disc brakes
●	●	●	23.5 R25 Radial Earthmover tyres (Front)
	●	●	775/65 R29 Radial Earthmover tyres (Front)
	●	●	875/65 R29 Radial Earthmover tyres (Front)
	▲	●	26.5 R25 Radial Earthmover tyres (Front-optional)
●	●	●	875/65 R29 Radial Earthmover tyres (Rear)
	●	●	21.00 R35 Dual (Rear)
	●	●	24.00 R35 Dual (Rear)
●	●	●	Remote grease banks
▲	●	●	Automatic greasing
●	●	●	Onboard Weighing
▲	▲	●	Load lights: stack
▲	▲	●	Comfort Ride suspension (Front)
	●	●	Hydro-pneumatic suspension (Rear)
▲	●	●	Reverse camera
●	●	●	Hand rails
●	●	●	Cab peak
●	●	●	High pressure hydraulic filter
▲	▲	▲	Fuel heater
●	●	●	Belly cover
●	●	●	Cross member cover
▲	▲	●	Remote transmission filters
●	●	●	Engine and transmission remote drain-gravity
	▲	▲	Engine and transmission remote drain-scavenge
▲	▲	▲	Window smash button
●	●	●	High visibility mirrors
●	●	●	Fleetm@tic® Classic Package for 2 years
●	●	●	Electronic bonnet opening
▲	▲	▲	Engine oil quick drain connector