

# 2005 U.S. Volkswagen New Beetle

## Standard Equipment

### Legend:

S Standard, at no additional charge    O Option, at additional charge

P Part of option package, at additional package charge    - Not available

EXTERIOR		GL	GLS	GLS	GLS	
		2.0L	2.0L	TDI*	1.8T	
Antenna	Roof-mounted amplified flexible black whip	S	S	S	S	
Anti-Corrosion	Fully galvanized sheet metal	S	S	S	S	
Badging	Rear hatch/ "Turbo" badge, script lettering	-	-	-	S	
Brake Lights	Center high mounted stop lamp in rear hatch under rear window	S	S	S	S	
Doors	Two doors (Three, including hatch)	S	S	S	S	
	Anti-intrusion side door beams	S	S	S	S	
	Energy absorbing side impact door padding	S	S	S	S	
	Body color door handles	S	S	S	S	
Fenders	Plastic front and rear fenders	S	S	S	S	
Fuel Tank	Fuel cap with string attachment and notched	S	S	S	S	
Glass	Gray band on upper windshield	S	S	S	S	
	Tinted glass, green	S	S	S	S	
Horn	Dual tone horns	S	S	S	S	
Lights, Front/Rear	Daytime Running Lights (DRL). Upon start-up of vehicle, headlights engage with reduced power. Instrument panel lighting, parking lights and taillights remain off. To engage all lights with full power, the light switch must be turned to the on position	S	S	S	S	
	Headlights-on warning tone, upon opening of driver's door when ignition key is removed	S	S	S	S	
	Projector lens halogen front headlamps with light weight, chip-resistant polycarbonate	S	S	S	S	
	Clear lens halogen front fog lamps	-	S	S	S	
	Side blinkers integrated into side exterior	S	S	S	S	
	HID Xenon Headlights with self-leveling and washer systems	-	O	O	O	
	Mirrors	Body color mirror housings	S	S	S	S
		Driver and passenger side power exterior mirrors, heatable	S	S	S	S
Paint	Metallic paint (no charge)	O	O	O	O	
	Non-metallic paint	S	S	S	S	
Roof	Power glass sunroof with tilt, slide, tinted glass, manual sunshade, pinch protection, and driver's door power lock operated convenience	-	S	S	S	
Spoiler	Speed activated rear spoiler located on top of back window	-	-	-	S	
Tires	205/55 R16 H, all season tires (snow chain compatible)	S	S	S	S	
	225/45 R17 H, all season tires	-	-	-	O	
	205/55 R16 H, full size steel spare wheel and all season tire	S	S	S	S	
Wheels	6.5J X 16" steel wheels	S	-	-	-	
	6.5J X 16" alloy wheels	-	S	S	S	
	7J X 17" alloy wheels	-	-	-	O	
	Anti-theft wheel locks	-	S	S	S	
Wipers/Washer	Two-speed windshield wipers with 4-speed, adjustable intermittent wipe feature	S	S	S	S	
	Heatable windshield washer nozzles, front	-	P	P	P	

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INTERIOR		GL	GLS	GLS	GLS
		2.0L	2.0L	TDI*	1.8T
Air Conditioning	Air conditioning, CFC-free	S	S	S	S
Alarm/Anti-Theft	Anti-theft vehicle alarm system for doors, hood, trunk lid, radio, and starter, with warning LED in door top sill and with audible and visual Immobilizer III theft deterrent system	S	S	S	S
		S	S	S	S
		S	S	S	S
Armrest	Front center armrest adjustable/folding with storage compartment	-	S	S	S
Ashtray	Non-smoker package (power outlet with plug, storage receptacle with red insert)	S	S	S	S
	Rear storage receptacle with red insert at rear end of center console	S	S	S	S
Assist Handles	Large assist handle in instrument panel above glove box, 2 rear passenger assist straps on B-pillars and silicone dampened return assist handles above driver and front passenger	S	S	S	S
Cruise Control	Cruise control	S	S	S	S
Defroster	Electric rear window defroster	S	S	S	S
	Electric side mirror defroster/defogger	S	S	S	S
Doors	Open door warning/courtesy lights, in front	S	S	S	S
Doors/Side Panels	Integrated armrests in front door panels	S	S	S	S
	Integrated armrests in rear side panels	S	S	S	S
	Molded door trim with cloth inserts	S	S	S	S
	Molded door trim with smooth leatherette	O	O/P	O/P	O/P
Floor Mats	Front and rear floor mats	S	S	S	S
Instrument Cluster	Break wear indicator	S	S	S	S
	Illumination of controls and gauges - blue, with red indicators	S	S	S	S
	Seatbelt reminder and fuel cap seal warning	S	S	S	S
	Speedometer, tachometer, odometer, trip odometer, coolant temperature gauge, fuel gauge, gear indicator (if equipped with optional automatic transmission), warning lights	S	S	S	S
		S	S	S	S
Keys	Folding keys (2) with radio-frequency remote transmitter for central locking, eyelet	S	S	S	S
	Valet key	S	S	S	S
Lighting	Glove box light	S	S	S	S
	Interior front center dome light with time delay and two reading lights	S	S	S	S
	Luggage compartment light	S	S	S	S
	Two rear reading lights	S	S	S	S
Locks	Automatic locking feature (doors lock automatically when vehicle reaches 8 mph). Dealer can disable feature or program to unlock when ignition key is removed. Doors unlock automatically upon airbag**	S	S	S	S
	Driver and passenger door mounted power lock/unlock switches for central locking system	S	S	S	S
	Remote central power locking system with selective unlocking and key operated convenience open and close feature (windows)	S	S	S	S
		S	S	S	S

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INTERIOR		GL 2.0L	GLS 2.0L	GLS TDI*	GLS 1.8T
Mirrors, Interior	Dual driver and front passenger visor vanity mirrors, illuminated with cover	S	S	S	S
	Mirror control pad with joystick control	S	S	S	S
	Rearview mirror with integrated clock and temperature display	S	S	S	S
Power Outlets	Two power outlets (SAE size) in center	S	S	S	S
Radio/Audio	Premium 5.5 in dash single CD Radio with MP3 format capability, satellite radio preparation, 6 speakers, control capability for CD changer, theft-deterrent warning light and coding system. Dot matrix font	S	S	S	S
	MP3 player connector	S	S	S	S
	Monsoon Sound System with amplifier	-	S	S	S
	XM Satellite Radio	O	O	O	O
	Sirius Satellite Radio	O	O	O	O
	CD Changer Prep (cable and mounting brackets)	S	S	S	S
	Remote Releases	Remote releases for trunk and fuel filler flap, located on driver's side door	S	S	S
Restraint Systems	Driver and front passenger front airbag** supplemental restraint system	S	S	S	S
	Driver and front passenger head/thorax side airbag** supplemental restraint system	S	S	S	S
	FMVSS208 advanced front airbags** with dual stage deployment through sophisticated seat sensors	S	S	S	S
	Emergency locking retractors for all seating	S	S	S	S
	Safety belts pre-tensioners with load limiters, front seats only	S	S	S	S
	Height adjustable front 3-point safety belts, color coordinated	S	S	S	S
	Rear outboard 3-point safety belts	S	S	S	S
	LATCH (Lower Anchors and Tether for Children. Formerly known as ISOFIX) - child seat lower attachment points and top tether rear outboard seating positions	S	S	S	S
	Child seat tether anchorage points with markings, rear seating positions	S	S	S	S
	Buckle switch (sensor which deploys airbag** depending on safety belt use)	S	S	S	S
	Active front head restraints	S	S	S	S
Seating, Front	Front seats, fully reclining, height adjustable, with adjustable (height & angle) lockable head "Easy Entry System" allows front seat to move forward for easy access to rear seating area	S	S	S	S
	Comfort seats	S	S	S	S
	Heatable front seats	-	P	P	P
	Seat height adjustment for driver and front passenger seats	S	S	S	S

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INTERIOR		GL	GLS	GLS	GLS
		2.0L	2.0L	TDI*	1.8T
Seating, Rear	One piece folding rear seat	S	S	S	S
Special Features	Telematics (includes self-dimming mirror)	O	O	O	O
Steering Wheel	3-spoke padded steering wheel	S	S	S	S
	3-spoke padded leather wrapped steering	-	P	P	P
	Height adjustable and telescoping steering	S	S	S	S
	Steering wheel deformable/collapsible upon	S	S	S	S
	Theft-deterrent steering column	S	S	S	S
Storage, Interior	Two front cupholders and one rear cupholder	S	S	S	S
	Jumbo Box center armrest	-	S	S	S
	Front door storage nets	S	S	S	S
	Front seatback magazine/storage pocket	S	S	S	S
	Soft opening (silicone dampened) glovebox, lockable with interior shelf for owners literature	S	S	S	S
	Sunglass holder located above rearview mirror	S	-	-	-
	Storage compartment inside front center	-	S	S	S
Trim (Details)	Plastic shift knob	S	S	S	S
	Plastic handbrake grip	S	S	S	S
	Leather shift knob	-	P	P	P
	Leather handbrake grip	-	P	P	P
	Soft-touch interior parts	S	S	S	S
Trunk/Cargo Area	Luggage compartment cover, one piece, lifting, removable	S	S	S	S
	Fully carpeted lined luggage compartment	S	S	S	S
	Grip on inside of trunk lid to assist closing	S	S	S	S
Upholstery	Cloth seat fabric	S	S	S	-
	Leatherette seat trim (no charge)	O	O	O	O
	Perforated leather seating surfaces	-	P	P	P
Ventilation System	Rear passenger ventilation for heat and A/C	S	S	S	S
	Pollen and dust filter	S	S	S	S
Windows	Key opening & closing feature for power	S	S	S	S
	Power windows with pinch protection. Front windows with automatic one-touch feature, operable from driver's side only	S	S	S	S
TECHNICAL		GL	GLS	GLS	GLS
		2.0L	2.0L	TDI*	1.8T
Battery	Battery box, hard shell box around the battery for protection	S	S	S	S
Body Panels	Crash optimized front end	S	S	S	S
Brakes	ABS (Anti-lock Braking System)	S	S	S	S
	Power assisted front vented disc brakes, rear solid disc brakes	S	S	S	S
Emissions	LEV II California Emissions Concept	S	S	-	-
	Bin 5 EPA Federal Emissions Concept	S	S	-	-
	Bin 10 EPA Federal Emissions Concept	-	-	S	-
	LEV I California Emissions Concept	-	-	-	S
	Bin 9 EPA Federal Emissions Concept	-	-	-	S
	OBD II	S	S	S	S
	ORVR (On-board Refueling Vapor Recovery)	S	S	-	S
EVAP standard for USA	S	S	-	S	

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<b>TECHNICAL</b>		<b>GL 2.0L</b>	<b>GLS 2.0L</b>	<b>GLS TDI*</b>	<b>GLS 1.8T</b>
Engine	2.0L 115 horsepower, 122 lbs-ft torque, 4 cylinder, in-line	S	S	-	-
	1.9L TDI-PD 100 horsepower, 177 lbs-ft torque, 4 cylinder, in-line, turbo-charged, direct injection diesel	-	-	S	-
	1.8T 150 horsepower, 162 lbs-ft torque, 4 cylinder, in-line, 5V, turbo-charged	-	-	-	S
Side Impact	Anti-intrusion side door beams	S	S	S	S
Steering	Power assisted rack and pinion steering	S	S	S	S
Suspension	Independent front McPherson struts, stabilizer	S	S	S	S
	Independent track correcting torsion beam rear axle with integrated stabilizer bar	S	S	S	S
Traction Control	Anti-Slip Regulation (ASR)	-	-	-	S
	Electronic Differential Lock (EDL)	-	-	-	S
	Engine Braking Assist (EBA) prevents compression-induced skidding in slippery	-	-	S	-
	Electronic Stabilization Program with brake assist (includes ASR & EDL)	O	O	O	O
Transmission	5-speed manual transmission	S	S	S	S
	6-speed automatic transmission with Tiptronic	O	O	-	O
	6-speed automatic transmission with Direct Shift Gearbox and Tiptronic	-	-	O	-
	Cable shift mechanism - manual transmission	S	S	S	S
	Clutch starter interlock for manual transmission. Vehicle will not start if clutch is	S	S	S	S
	Hydraulic clutch for manual transmission	S	S	S	S
<b>LIMITED WARRANTY<sup>1</sup></b>		<b>GL 2.0L</b>	<b>GLS 2.0L</b>	<b>GLS TDI*</b>	<b>GLS 1.8T</b>
Corrosion-Perforation	12 year/unlimited distance Limited Warranty against Corrosion Perforation	S	S	S	S
Powertrain	5 year/60,000 mile (whichever occurs first). Powertrain Limited Warranty	S	S	S	S
Vehicle	4 year/50,000 mile (whichever occurs first). New Vehicle Limited Warranty. Wear & tear items and adjustments excluded after initial 12 month/12,000 miles (whichever occurs first)	S	S	S	S
<b>ROADSIDE ASSISTANCE</b>		<b>GL 2.0L</b>	<b>GLS 2.0L</b>	<b>GLS TDI*</b>	<b>GLS 1.8T</b>
Roadside Assistance	4-year/unlimited mileage, 24 hour roadside assistance provided by Road America	S	S	S	S

\*The TDI is a diesel engine. Models equipped with this engine are not available for purchase in California, New York, Vermont, Maine and Massachusetts.

\*\*Airbags are supplemental restraints only and will not deploy under all accident circumstances. Always use safety belts and seat children only in the rear, using restraint systems appropriate for

<sup>1</sup>Please review limitations and exclusions with your dealership representative.

All equipment listed is subject to production-related change or delayed availability.

# 2005 U.S. Volkswagen New Beetle GL 2.0L

## Technical Specifications

### ENGINE

Type	2.0L, 4 cylinder, in-line			
Bore	3.25	in	82.5	mm
Stroke	3.65	in	92.8	mm
Displacement	121.0	in <sup>3</sup>	1,984	cm <sup>3</sup>
Compression Ratio	10.0 : 1			
Horsepower (SAE) @ rpm	115 @ 5,200 (85 kW @ 5,200)			
Maximum torque, lbs - ft @ rpm	122 @ 2,600 (165 Nm @ 2,600)			
Fuel Requirement	Regular unleaded			
Firing Order	1-3-4-2			

### ENGINE DESIGN

Arrangement	Front mounted, transverse			
Cylinder Block	Cast iron			
Crank Shaft	Cast iron, five main bearings			
Cylinder Head	Aluminum alloy, cross flow			
Valve Train	Single overhead camshaft, spur belt driven with semi-automatic belt tensioner, two valves per cylinder, maintenance free hydraulic lifters, single coil valve			
Cooling System	Water cooled, water pump, cross flow radiator, double thermostatically controlled electric 2-speed radiator fan			
Lubrication	Rotary internal gear pump, intermediate shaft driven, oil cooler			
Fuel / Air Supply	Sequential multi-point fuel injection (Motronic)			
Emissions	LEV II California Emissions Concept, Bin 5 EPA Federal Emissions Concept, OBD II, ORVR (On-board Refueling Vapor Recovery), EVAP (enhanced evaporation system) standards for USA, 3-way catalytic converter with two			

### ELECTRICAL SYSTEM

Alternator - V/A	14/70			
Battery - V/Ah	12/60			
Ignition	Digital electronic, with knock sensor			

### DRIVETRAIN

Drivetrain	Front wheel drive			
		Manual	Automatic	
Transmission Gear Ratios:1	1st	3.78	4.15	
	2nd	2.12	2.37	
	3rd	1.36	1.56	
	4th	1.03	1.16	
	5th	0.84	0.86	
	6th	--	0.69	
	Reverse	3.60	3.39	
	Final I	4.24	4.31	
	Final II	--	--	

### CAPACITIES

Engine Oil (with filter)	4.2	qt	4.0	L
Fuel Tank	14.5	gal	55.0	L
Cooling System	5.6	qt	5.3	L
Wiper Fluid	2.1	qt	2.0	L

### STEERING

Type	Rack and pinion, power assisted			
Turns (lock to lock)	3.04			
Turning Circle (curb to curb)	35.8	ft	10.9	m
Ratio	15.6 : 1			

# 2005 U.S. Volkswagen New Beetle GL 2.0L

## Technical Specifications

### INTERIOR VOLUME - SAE

EPA Class	Sub-Compact						
Seating Capacity	Four						
Passenger Volume	85	ft <sup>3</sup>	2.4	m <sup>3</sup>			
Cargo Volume	12	ft <sup>3</sup>	0.3	m <sup>3</sup>			
Cargo Volume with rear seat folded	27.1	ft <sup>3</sup>	0.77	m <sup>3</sup>			
	<b>Front</b>				<b>Rear</b>		
Volume	49.7	ft <sup>3</sup>	1.40	m <sup>3</sup>	35.1	ft <sup>3</sup>	1.00 m <sup>3</sup>
Head Room	41.3	in	1,049	mm	36.7	in	932 mm
Shoulder Room	52.8	in	1,341	mm	49.3	in	1,252 mm
Leg Room	39.4	in	1,001	mm	33.5	in	851 mm

### BODY, CHASSIS AND SUSPENSION

Type	Unitized construction, bolt-on front fenders						
Front Suspension	Independent McPherson struts, coil springs, telescopic shock absorbers, 23 mm integrated stabilizer bar						
Rear Suspension	Independent torsion beam axle, coil springs, telescopic gas pressurized shock absorbers, 18 mm stabilizer bar						
Service Brakes	Power assisted, dual circuit, vented 280 x 22 mm front discs and 232 x 9 mm solid rear discs						
Anti Lock Braking System	Standard, all four wheels, 3-channel with electronic brake pressure distribution						
Parking Brake	Mechanical, effective on rear wheels						
Wheels/Tires	6.5J X 16" steel wheels 205/55 R16 H, all season tires (snow chain compatible)						
Drag Coefficient	.38						

### DIMENSIONS

Wheelbase	98.7	in	2,508	mm			
Front Track	59.4	in	1,508	mm			
Rear Track	58.8	in	1,494	mm			
Length	161.1	in	4,091	mm			
Width	67.9	in	1,724	mm			
Height	59.0	in	1,498	mm			
Ground Clearance	4.6	in	118	mm			

### WEIGHTS

	Manual				Automatic				
Curb Weight	2,743	lbs	1,244	kg	2,780	lb	1,261	kg	
	Front	1,704	lbs	773	kg	1,748	lb	793	kg
	Rear	1,038	lbs	471	kg	1,032	lb	468	kg
Payload	785	lbs	356	kg	789	lb	358	kg	

### FUEL CONSUMPTION\*

	Manual	Automatic
City mpg	24	24
Highway mpg	31	30
City L/100km	9.8	9.6
Highway L/100km	7.0	7.2

### PERFORMANCE

	Manual	Automatic		
0-60 mph	10.2	seconds	11.5	seconds
Top Speed	118	mph**	118	mph**

\*EPA fuel mileage estimates. Your mileage may vary.

\*\*Maximum speed electronically limited to 118 mph in U.S. Obey all speed and traffic laws.

All equipment listed is subject to production-related change or delayed availability.

# 2005 U.S. Volkswagen New Beetle GLS 2.0L

## Technical Specifications

ENGINE				
Type	2.0L, 4 cylinder, in-line			
Bore	3.25	in	82.5	mm
Stroke	3.65	in	92.8	mm
Displacement	121.0	in <sup>3</sup>	1,984	cm <sup>3</sup>
Compression Ratio	10.0 : 1			
Horsepower (SAE) @ rpm	115 @ 5,200 (85 kW @ 5,200)			
Maximum torque, lbs - ft @ rpm	122 @ 2,600 (165 Nm @ 2,600)			
Fuel Requirement	Regular unleaded			
Firing Order	1-3-4-2			
ENGINE DESIGN				
Arrangement	Front mounted, transverse			
Cylinder Block	Cast iron			
Crank Shaft	Cast iron, five main bearings			
Cylinder Head	Aluminum alloy, cross flow			
Valve Train	Single overhead camshaft, spur belt driven with semi-automatic belt tensioner, two valves per cylinder, maintenance free hydraulic lifters, single coil valve			
Cooling System	Water cooled, water pump, cross flow radiator, double thermostatically controlled electric 2-speed radiator fan			
Lubrication	Rotary internal gear pump, intermediate shaft driven, oil cooler			
Fuel / Air Supply	Sequential multi-point fuel injection (Motronic)			
Emissions	LEV II California Emissions Concept, Bin 5 EPA Federal Emissions Concept, OBD II, ORVR (On-board Refueling Vapor Recovery), EVAP (enhanced evaporation system) standards for USA, 3-way catalytic converter with two oxygen sensors (up - and			
ELECTRICAL SYSTEM				
Alternator - V/A	14/70			
Battery - V/Ah	12/60			
Ignition	Digital electronic, with knock sensor			
DRIVETRAIN				
Drivetrain	Front wheel drive			
		Manual	Automatic	
Transmission Gear Ratios:1	1st	3.78	4.15	
	2nd	2.12	2.37	
	3rd	1.36	1.56	
	4th	1.03	1.16	
	5th	0.84	0.86	
	6th	--	0.69	
	Reverse	3.60	3.39	
	Final I	4.24	4.31	
	Final II	--	--	
CAPACITIES				
Engine Oil (with filter)	4.2	qt	4.0	L
Fuel Tank	14.5	gal	55.0	L
Cooling System	5.6	qt	5.3	L
Wiper Fluid	2.1	qt	2.0	L
STEERING				
Type	Rack and pinion, power assisted			
Turns (lock to lock)	3.04			
Turning Circle (curb to curb)	35.8	ft	10.9	m
Ratio	15.6 : 1			

# 2005 U.S. Volkswagen New Beetle GLS 2.0L

## Technical Specifications

### INTERIOR VOLUME - SAE

EPA Class	Sub-Compact							
Seating Capacity	Four							
Passenger Volume	81	ft <sup>3</sup>	2.3	m <sup>3</sup>				
Cargo Volume	12	ft <sup>3</sup>	0.3	m <sup>3</sup>				
Cargo Volume with rear seat folded	27.1	ft <sup>3</sup>	0.77	m <sup>3</sup>				
	<b>Front</b>				<b>Rear</b>			
Volume	46.0	ft <sup>3</sup>	1.30	m <sup>3</sup>	35.1	ft <sup>3</sup>	1.00	m <sup>3</sup>
Head Room	38.2	in	970.3	mm	36.7	in	932.2	mm
Shoulder Room	52.8	in	1,341	mm	49.3	in	1,252	mm
Leg Room	39.4	in	1,001	mm	33.5	in	851	mm

### BODY, CHASSIS AND SUSPENSION

Type	Unitized construction, bolt-on front fenders							
Front Suspension	Independent McPherson struts, coil springs, telescopic shock absorbers, 23 mm integrated stabilizer bar							
Rear Suspension	Independent torsion beam axle, coil springs, telescopic gas pressurized shock absorbers, 18 mm stabilizer bar							
Service Brakes	Power assisted, dual circuit, vented 280 x 22 mm front discs and 232 x 9 mm solid rear discs							
Anti Lock Braking System	Standard, all four wheels, 3-channel with electronic brake pressure distribution							
Parking Brake	Mechanical, effective on rear wheels							
Wheels/Tires	6.5J X 16" alloy wheels 205/55 R16 H, all season tires (snow chain compatible)							
Drag Coefficient	.38							

### DIMENSIONS

Wheelbase	98.7	in	2,508	mm				
Front Track	59.4	in	1,508	mm				
Rear Track	58.8	in	1,494	mm				
Length	161.1	in	4,091	mm				
Width	67.9	in	1,724	mm				
Height	59.0	in	1,498	mm				
Ground Clearance	4.6	in	118	mm				

### WEIGHTS

	Manual				Automatic				
Curb Weight	2,743	lbs	1,244	kg	2,765	lb	1,254	kg	
	Front	1,704	lbs	773	kg	1,717	lb	779	kg
	Rear	1,038	lbs	471	kg	1,047	lb	475	kg
Payload	752	lbs	341	kg	774	lb	351	kg	

### FUEL CONSUMPTION\*

	Manual	Automatic
City mpg	24	24
Highway mpg	31	30
City L/100km	9.8	9.6
Highway L/100km	7.0	7.2

### PERFORMANCE

	Manual	Automatic		
0-60 mph	10.2	seconds	11.5	seconds
Top Speed	118	mph**	118	mph**

\*EPA fuel mileage estimates. Your mileage may vary.

\*\*Maximum speed electronically limited to 118 mph in U.S. Obey all speed and traffic laws.

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# 2005 U.S. Volkswagen New Beetle GLS 1.9L TDI®\*

## Technical Specifications

### ENGINE

Type	1.9L, 4 cylinder, in-line, turbocharged direct injection, Pumpe Düse			
Bore	3.13	in	79.5	mm
Stroke	3.76	in	95.5	mm
Displacement	115.7	in <sup>3</sup>	1,896	cm <sup>3</sup>
Compression Ratio	19.0 : 1			
Horsepower (SAE) @ rpm	100 @ 4,000 (74 kW @ 4,000)			
Maximum torque, lbs - ft @ rpm	177 @ 1,800-2,400 (240 Nm @ 1,800-2,400)			
Fuel Requirement	Diesel			
Firing Order	1-3-4-2			

### ENGINE DESIGN

Arrangement	Front mounted, transverse			
Cylinder Block	Cast iron			
Crank Shaft	Forged steel, five main bearings			
Cylinder Head	Aluminum alloy, cross flow			
Valve Train	Single overhead camshaft, spur belt driven, two valves per cylinder, maintenance free hydraulic lifters, single valve springs			
Cooling System	Water cooled, water pump, cross flow radiator, thermostatically controlled electric 3-speed radiator fan			
Lubrication	Rotary gear pump, intermediate shaft driven, oil cooler			
Fuel / Air Supply	Electronically controlled direct injection (EDC), turbocharger			
Emissions	Bin 10 EPA Federal Emissions Concept, OBD II, catalytic converter, water-cooled			

### ELECTRICAL SYSTEM

Alternator - V/A	14/70			
Battery - V/Ah	12/72			
Ignition	Compression ignition			

### DRIVETRAIN

Drivetrain	Front wheel drive			
		Manual	Automatic	
Transmission Gear Ratios:1	1st	3.78	3.46	
	2nd	2.12	2.05	
	3rd	1.36	1.30	
	4th	0.97	0.90	
	5th	0.76	0.91	
	6th	--	0.76	
	Reverse	3.60	3.99	
	Final I	3.39	4.38	(1st, 2nd, 3rd, 4th Gear)
	Final II	--	3.33	(5th, 6th, R- Gear)

### CAPACITIES

Engine Oil (with filter)	4.8	qt	4.5	L
Fuel Tank	14.5	gal	55.0	L
Cooling System	5.3	qt	5.0	L
Wiper Fluid	2.1	qt	2.0	L

### STEERING

Type	Rack and pinion, power assisted			
Turns (lock to lock)	3.04			
Turning Circle (curb to curb)	35.8	ft	10.9	m
Ratio	15.6 : 1			

# 2005 U.S. Volkswagen New Beetle GLS 1.9L TDI®\*

## Technical Specifications

### INTERIOR VOLUME - SAE

EPA Class	Sub-Compact			
Seating Capacity	Four			
Passenger Volume	81	ft <sup>3</sup>	2.3	m <sup>3</sup>
Cargo Volume	12	ft <sup>3</sup>	0.3	m <sup>3</sup>
Cargo Volume with rear seat folded	27.1	ft <sup>3</sup>	0.77	m <sup>3</sup>
	<b>Front</b>		<b>Rear</b>	
Volume	46.0	ft <sup>3</sup>	1.30	m <sup>3</sup>
Head Room	38.2	in	970	mm
Shoulder Room	52.8	in	1,341	mm
Leg Room	39.4	in	1,001	mm

### BODY, CHASSIS AND SUSPENSION

Type	Unitized construction, bolt-on front fenders			
Front Suspension	Independent McPherson struts, coil springs, telescopic shock absorbers, 23 mm integrated stabilizer bar			
Rear Suspension	Independent torsion beam axle, coil springs, telescopic gas pressurized shock absorbers, 18 mm stabilizer bar			
Service Brakes	Power assisted, dual circuit, vented 280 x 22 mm front discs and 232 x 9 mm solid rear discs			
Anti Lock Braking System	Standard, all four wheels, 3-channel with electronic brake pressure distribution, Engine Braking Assist (EBA) prevents compression-induced skidding in slippery			
Parking Brake	Mechanical, effective on rear wheels			
Wheels/Tires	6.5J X 16" alloy wheels 205/55 R16 H, all season tires (snow chain compatible)			
Drag Coefficient	.38			

### DIMENSIONS

Wheelbase	98.7	in	2,508	mm
Front Track	59.4	in	1,508	mm
Rear Track	58.8	in	1,494	mm
Length	161.1	in	4,091	mm
Width	67.9	in	1,724	mm
Height	59.0	in	1,498	mm
Ground Clearance	4.6	in	118	mm

### WEIGHTS

		Manual				Automatic			
Curb Weight		2,989	lbs	1,356	kg	3,016	lb	1,368	kg
	Front	1,903	lbs	863	kg	1,964	lb	891	kg
	Rear	1,087	lbs	493	kg	1,052	lb	477	kg
Payload		860	lbs	390	kg	860	lb	390	kg

### FUEL CONSUMPTION\*\*

	Manual	Automatic
City mpg	38	36
Highway mpg	46	42
City L/100km	6.2	6.5
Highway L/100km	4.6	5.2

\*The TDI is a diesel engine. Models equipped with this engine are not available for purchase in California, New York, Vermont, Maine and Massachusetts.

\*\*EPA fuel mileage estimates. Your mileage may vary.

All equipment listed is subject to production-related change or delayed availability.

# 2005 U.S. Volkswagen New Beetle GLS 1.8T

## Technical Specifications

### ENGINE

Type	4 cylinder, in-line, turbo-charged			
Bore	3.19	in	81.0	mm
Stroke	3.40	in	86.4	mm
Displacement	108.6	in <sup>3</sup>	1,781	cm <sup>3</sup>
Compression Ratio	9.3 : 1			
Horsepower (SAE) @ rpm	150 @ 5,800 (110 kW @ 5,800)			
Maximum torque, lbs - ft @ rpm	162 @ 2,200-4,200 (220 Nm @ 2,200-4,200)			
Fuel Requirement	Premium unleaded recommended for maximum performance			
Firing Order	1-3-4-2			

### ENGINE DESIGN

Arrangement	Front mounted, transverse			
Cylinder Block	Cast iron			
Crank Shaft	Forged steel, five main bearings			
Cylinder Head	Aluminum alloy, cross flow			
Valve Train	Dual overhead camshaft, spur belt driven, five valves per cylinder, maintenance free hydraulic lifters			
Cooling System	Water cooled, water pump, cross flow radiator, thermostatically controlled electric radiator fan			
Lubrication	Rotary gear pump, chain driven, oil cooler			
Fuel / Air Supply	Sequential multi-point fuel injection (Motronic), turbocharger			
Emissions	LEV I California Emissions Concept, Bin 9 EPA Federal Emissions Concept, OBD II, ORVR (onboard refueling vapor recovery), EVAP (enhanced evaporation system) standard for USA, 3-way catalyc converter with two oxygen sensors			

### ELECTRICAL SYSTEM

Alternator - V/A	14/120			
Battery - V/Ah	12/60			
Ignition	Digital electronic with knock sensor			

### DRIVETRAIN

Drivetrain	Front wheel drive		
		Manual	Automatic
Transmission Gear Ratios:1	1st	3.30	4.04
	2nd	1.94	2.37
	3rd	1.31	1.56
	4th	1.03	1.16
	5th	0.84	0.85
	6th	--	0.68
	Reverse	3.06	3.19
	Final I	3.94	3.94
Final II	--	--	

### CAPACITIES

Engine Oil (with filter)	4.8	qt	4.5	L
Fuel Tank	14.5	gal	55.0	L
Cooling System	8.5	qt	8.0	L
Wiper Fluid	2.1	qt	2.0	L

### STEERING

Type	Rack and pinion, power assisted			
Turns (lock to lock)	3.04			
Turning Circle (curb to curb)	35.8	ft	10.9	m
Ratio	15.6 : 1			

# 2005 U.S. Volkswagen New Beetle GLS 1.8T

## Technical Specifications

### INTERIOR VOLUME - SAE

EPA Class	Sub-Compact			
Seating Capacity	Four			
Passenger Volume	81	ft <sup>3</sup>	2.3	m <sup>3</sup>
Cargo Volume	12	ft <sup>3</sup>	0.3	m <sup>3</sup>
Cargo Volume with rear seat folded	27	ft <sup>3</sup>	0.8	m <sup>3</sup>
	<b>Front</b>		<b>Rear</b>	
Volume	46.0	ft <sup>3</sup>	1.3	m <sup>3</sup>
Head Room	38.2	in	970	mm
Shoulder Room	52.8	in	1,341	mm
Leg Room	39.4	in	1,001	mm

### BODY, CHASSIS AND SUSPENSION

Type	Unitized construction, bolt-on front fenders			
Front Suspension	Independent McPherson struts, coil springs, telescopic shock absorbers, 23 mm integrated stabilizer bar			
Rear Suspension	Independent torsion beam axle, coil springs, telescopic gas pressurized shock absorbers, 18 mm stabilizer bar			
Service Brakes	Power assisted, dual circuit, vented 288 x 25 mm front discs and 232 x 9 mm solid rear discs			
Anti Lock Braking System	Standard, all four wheels, 3-channel with electronic brake pressure distribution, Anti-Slip Regulation (ASR), Electronic Differential Lock (EDL), and Electronic Stabilization Program with brake assist			
Parking Brake	Mechanical, effective on rear wheels			
Wheels/Tires	6.5J X 16" alloy wheels 205/55 R16 H, all season tires (snow chain compatible)			
Drag Coefficient	.38			

### DIMENSIONS

Wheelbase	98.7	in	2,508	mm
Front Track	59.4	in	1,508	mm
Rear Track	58.8	in	1,494	mm
Length	161.1	in	4,091	mm
Width	67.9	in	1,724	mm
Height	59.0	in	1,498	mm
Ground Clearance	4.6	in	118	mm

### WEIGHTS

	Manual				Automatic				
Curb Weight	2,820	lbs	1,279	kg	2,868	lb	1,301	kg	
	Front	1,788	lbs	811	kg	1,841	lb	835	kg
	Rear	1,032	lbs	468	kg	1,027	lb	466	kg
Payload	754	lbs	342	kg	750	lb	340	kg	

### FUEL CONSUMPTION\*

	Manual	Automatic
City mpg	24	23
Highway mpg	31	29
City L/100km	9.6	10.3
Highway L/100km	7.2	7.3

### PERFORMANCE

	Manual	Automatic
0-60 mph	8.2	9.0
Top Speed	130	130

\*EPA fuel mileage estimates. Your mileage may vary.

\*\*Maximum speed electronically limited to 130 mph in U.S. Obey all speed and traffic laws.

All equipment listed is subject to production-related change or delayed availability.