

2013 GT-R Specifications

Specifications are based on latest product information available at the time of printing

Mechanical

Engine	
Designation	VR38DETT
Cam configuration	DOHC
Orientation	Longitudinal
Cylinders / configuration	V6
Block / head composition	Aluminum/Aluminum
Displacement (liters)	3.8
Horsepower	545 @ 6,400 RPM
Torque lb-ft	463 lb-ft @ 3,200 – 5,800 RPM
Bore & stroke (mm)	95.5 x 88.4 (Plasma sprayed bore)
Compression ratio (:1)	9.0
Maximum engine speed	7,000 RPM
Induction system	Sequential multi-point electronic fuel injection
Valvetrain	4 valves per cylinder, CVTCS
Turbocharger	Twin IHI system
Engine mounts	2 liquid-filled, side; 1 rubber, rear, 1 electronically controlled liquid-filled, front
Recommended fuel	Premium unleaded
Emissions system	2 catalytic converters
Emission certification level	LEV2/ULEV (50 state)
Exhaust	Dual system, 4 outlets (2 each side)

Transmission and Drive System	
Drive configuration	Mid-mounted front engine / rear transaxle ATTESA E-TS all-wheel drive
Transmission	Dual clutch sequential 6-speed rear transaxle, magnesium paddle shifters, gear pre-selection
Gear ratio	
1 st	4.056
2 nd	2.301
3 rd	1.595
4 th	1.248
5 th	1.001
6 th	0.796
Reverse	3.383
Final drive ratio	Front: 2.937, Rear: 3.700
Driveshaft	Carbon composite
Manual/Automatic modes	S
Configurable Shift Control	S
Downshift Rev Matching (DRM)	S
1.5-way mechanical limited slip differential	S
Traction Control System with Limited Slip	S
Vehicle Dynamic Control (VDC)	S
Snow-mode function	S
Hill Start Assist (HSA)	S
Yaw Rate Feedback Control	S

Brakes		
Front	Type	Brembo® six piston monoblock calipers, full-floating, vented and drilled rotors
	Rotor size diameter and thickness (in.)	15.35 x 1.28
Rear	Type	Brembo® four piston monoblock calipers, full-floating, vented and drilled rotors
	Rotor size diameter and thickness (in.)	15.0 x 1.18
Brake control		Power-assisted (vacuum)
Anti-lock Brake System (ABS)		S
Number of wheels		4
Number of channels		4
Number of sensors		4
Electronic Brake force Distribution (EBD)		S
Brake Assist (BA)		S
Parking brake		Hand-operated

Steering	
Type	Vehicle speed-sensitive power rack-and-pinion, aluminum steering rack, four-point mounting, with stiff insulators
Overall ratio	15:1
Turns (lock to lock)	2.4
Turning diameter (ft.)	36.6
Steering wheel	3-spoke leather-wrapped with air bag, manual tilt and telescoping, lap timer switch
Steering wheel ASCD, audio and Bluetooth® switches	S

Suspension	
Front	Independent double wishbone aluminum, integral tube-frame structure, six-point mounting
Large-diameter hollow stabilizer bar	S
Rear	Independent multi-link aluminum suspension, integral tube-frame structure, six-point mounting, aluminum upper/lower links (spherical bearing design)
Large-diameter hollow stabilizer bar	S
Bilstein DampTronic mono-tube shock absorbers, computer controlled, 3-position driver adjustable	S
Progressive rate (non-linear) springs	S
High-accuracy alignment, fully adjustable	S

Body / Chassis	
Type	Unibody
Materials (primary)	Steel, carbon fiber, die-cast aluminum
Platform	Premium-Midship (PM)

Exterior

Wheels & Tires		Premium	Black Edition
Wheels	F: 20x9.5 inches, R: 20x10.5 in.	S	
	10-spoke RAYS® aluminum-alloy forged, premium dark (near black) finish	S	-
	Lightweight 6-spoke RAYS® aluminum-alloy forged, black finish	-	S
Tires	Dunlop® SP Sport Maxx GT600 ultra high performance run-flat tires F: 255/40ZRF20, R: 285/35ZRF20	S	
	Dunlop® SP Sport 7010 all-season run-flat tires F: 255/40 ZRF 20), R: 285/35 ZRF 20	O	-
Tire Pressure Monitoring System (TPMS), pressure and position shown on multi-function meter		S	

Lights		
Headlights	"Super wide beam" HID	S
	Auto on/off	S
Taillights	"GT-R" 4-ring LED	S
	Spoiler-mounted LED center high-mount stop lamp	S

Additional Exterior Features	Premium	Black Edition
Functional rear underbody diffuser	Carbon fiber	
Rear spoiler	S	-
Dry carbon fiber rear spoiler	-	S
Front "aero-blade" fenders with functional vents	S	
Aerodynamic front underbody cover	S	
Integrated, flush mounted aluminum door handles	S	
UV-filtering front and rear side glass, laminated UV-reducing windshield	S	
Folding side mirrors, power/power folding, heated, body color with black lower portion	S	
Revised front and rear fascias	S	
Body-color bumpers	S	
Dark Gray grille	S	
Integrated LED running lights	S	
Aerodynamic flat-blade windshield wipers, variable intermittent, speed-sensitive	S	
Anti-chip paint process	S	

Interior

Seating	Premium	Black Edition
Capacity	4 passengers	
Front Seat Type	Bucket, sport style, with accommodation for 4-point safety harness	
Leather/synthetic suede front seat appointments	S	
Heated seats	S	
Driver's seat	8-way power	S
Front Passenger's seat	4-way power	S
Rear seat	Synthetic leather-appointed	
Unique red and black interior trim	-	S
Recaro® leather-appointed seats	-	S

Audio/Navigation	
Bose® audio system with 11 speakers (9 speakers with 2 subwoofers in rear center armrest area) mounted in aluminum die-cast panels, AM/FM/CD with MP3/WMA playback, Music Box® Hard Drive	S
Vehicle speed sensitive auto volume control	S
DVD video playback	S
XM® Satellite Radio	S
HDD-based Navigation System, 7.0-inch color display, touch screen functionality, XM NavTraffic® with Real-Time Traffic Information, XM NavWeather™	S
Bluetooth® Hands-free phone system	S
Streaming Audio via Bluetooth®	S
USB iPod® interface	S
Steering-wheel audio controls with illumination	S

Instrumentation	
Meters/gauges Speedometer Tachometer Coolant temperature Fuel level LCD dual trip odometer	S
Multi-Function Display system, (11 pages of information) with playback feature Turbo boost Water and engine oil pressure Transmission oil temperature Front to rear drive distribution Steering position Brake and accelerator position Gearshift mapping for optimal economy	S

Convenience Features	
RearView Monitor Cruise control (ASCD) Power windows – driver and passenger one-touch up/down Power door locks Remote keyless entry system Intelligent key system Cupholders – 3 12-volt outlets – 2 Passenger assist grip Sunvisors w/ vanity mirrors and lamps Front seat knee pads Inside rear view mirror – auto-dimming HomeLink® Universal Transceiver (UGDO) Map light, door step lamp Center console storage area Automatic climate control, dual zone 3-position setup switches for suspension, transmission and VDC Console-mounted push-button start Aluminum interior trim Soft padding on instrument panel and doors Carbon fiber interior trim	S

Safety and Security

Passenger Restraint System	
Advanced Air Bag System (AABS)	Driver and front passenger air bags with dual-stage inflation, seat belt sensors and occupant classification sensor
Driver and front passenger side impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags for front seat occupant head protection	S
Seat belts, front and rear	3-point (ALR/ELR for passenger, ELR for driver)
Seatbelts w/pre-tensioners and load limiters	S
Power window lockout button	S
Rear seat tether anchor	S

Impact Safety	
Zone Body Construction with front and rear crumple zones Energy-absorbing steering column Hood buckling creases Knee bolsters High-strength side door guard beams	S

Security	
Tamper proof door lock key cylinder Vehicle Security System (VSS) Immobilizer	S

Dimensions

Exterior (inches)		
Wheelbase		109.4
Overall length		183.8
Overall width		74.6
Overall height		53.9
Track width	Front/Rear	62.6/63.0
Coefficient of drag (Cd)		0.26

Interior (inches)		
Head room front/rear		38.1/33.5
Leg room front/rear		44.6/26.4
Hip room front/rear		54.7/44.9
Shoulder room front/rear		54.3/50.0

Weights	Premium	Black Edition
Curb weight (pounds)	3,829	3,818
Weight distribution (%) Front/rear	53/47	
GVWR	4,669	

Capacities		
Fuel tank (gallons)		19.5
Engine oil (liters)		7.5
Engine coolant w/ reservoir (liters)		11.0

Volume (cubic feet)		
Passenger compartment		79.0
Cargo		8.8
Total		87.8

EPA Fuel Economy (Actual mileage may vary)		
City		16
Highway		23
Classification		

Option	Premium	Black Edition
Cold Weather Package: includes Dunlop® SP Sport 7010 all-season run-flat tires, 30/70 coolant/water ratio	O	-

S - Standard

O - Option