



Specifications - Nissan GT-R

MECHANICAL

	GT-R	GT-R Premium
Engine		
VR38DETT – 3.8-liter twin-turbocharged 24-valve V6; each engine hand-crafted by its own master technician in a clean-room environment		
Horsepower – 485 horsepower @ 6,400 rpm		
Torque – 434 lb-ft of torque @ 3,200–5,200 rpm		
Cylinder bore x stroke – 95.5 x 88.4 mm	●	●
Compression ratio – 9.0:1		
Top speed – 193 mph		
Maximum engine speed – 7,000 rpm		
Emissions – 50 State LEV2/ULEV		
Double overhead camshafts (DOHC) with Continuously Variable Valve Timing Control System (CVTCS) on intake valves	●	●
Aluminum cylinder block with high-endurance/low-friction plasma-sprayed bores	●	●
Aluminum pistons	●	●
Nissan Direct Ignition System	●	●
Iridium-tipped spark plugs	●	●
Electronic drive-by-wire throttle	●	●
Pressurized lubrication system with thermostatically controlled cooling and magnesium oil sump	●	●
Fully symmetrical dual intake and low back-pressure exhaust system	●	●
Secondary air intake system to rapidly heat catalysts to peak cleaning efficiency	●	●
30:70 coolant mix	C	C
Drivetrain		
ATTESA E-TS® All-Wheel Drive (AWD) with patented independent rear-mounted transaxle integrating transmission, differential and AWD transfer case	●	●
Torque distribution – Traction/yaw-based; up to 100% rear; up to 50% front	●	●
Rigid, lightweight carbon-composite main driveshaft	●	●
Electronic Traction Control System (TCS)	●	●
High-performance 1.5-way mechanical limited-slip rear differential	●	●
Advanced Vehicle Dynamic Control (VDC) [1] with three driver-selectable modes:		
Normal – for daily driving; controls brakes and engine output	●	●
R-Mode – for ultimate performance; raises the threshold at which the system intervenes		
Off – disengages the VDC system		
Hill start assist prevents rollback when starting on an incline	●	●
Transmission		
Dual clutch 6-speed transmission with three driver-selectable modes; each transmission hand-crafted in a clean-room environment:		
Normal – for maximum smoothness and efficiency, with gearshifts in less than 0.5 second	●	●
R-mode – for maximum performance with fastest shift speeds (as fast as 0.2 second)		
Snow – provides gentler starting and shifting on slippery surfaces		
Fully automatic shifting or full sequential manual control via steering column-mounted paddle shifters	●	●
Downshift Rev Matching	●	●
Predictive pre-shift control (in R-Mode) preselects the next gear change based on throttle position, vehicle speed, braking input and other information	●	●

Gear ratios (:1) 1st	4.056	4.056
2nd	2.301	2.301
3rd	1.595	1.595
4th	1.248	1.248
5th	1.001	1.001
6th	0.796	0.796
reverse	3.383	3.383
front final drive ratio (:1)	2.937	2.937
rear final drive ratio (:1)	3.700	3.700

Brakes

Nissan/Brembo® braking system – 4-wheel disc brakes, 15" front and rear two-piece floating-rotors with diamond-pattern internal ventilation	●	●
Super-rigid 6-piston front/4-piston rear monoblock calipers with racecar-inspired 3-point radial mounting	●	●

Suspension and Steering

Front suspension – double-wishbone with aluminum links	●	●
Rear suspension – multi-link with aluminum links	●	●
Rigid front and rear suspension subframes, assembled in high-precision jigs similar to a racecar, with 6-point mounting to body	●	●
Bilstein® DampTronic® suspension system with three driver-selectable modes: Normal – for automatic electronic control of damping R-mode – engages maximum damping rate for high-performance cornering Comfort – to minimize freeway hop and ride harshness on rough roads	●	●
Hollow front and rear stabilizer bars to help maintain maximum tire contact at all four wheels during cornering	●	●
Vehicle-speed-sensitive power steering	●	●
2.4 steering-wheel turns lock-to-lock	●	●

LEGEND

C Part of Cold Weather Package

EXTERIOR

GT-R GT-R
Premium

Wheels and Tires

Super-lightweight forged-alloy wheels with knurled bead area, designed to maximize tire adhesion to wheel under acceleration: 20" x 9.5" +20mm offset (front) 20" x 10.5" +20mm offset (rear)	●	●
High-luster dark smoke finish	●	⊘
Near-black metallic finish	⊘	●
Exclusively developed tires, [2] nitrogen-filled at factory: 255/40ZRF20 (front) 285/35ZRF20 (rear)	●	●
Dunlop® high-performance summer run-flat tires	●	⊘
Bridgestone® high-performance summer run-flat tires	⊘	●

Dunlop® all-season run-flat tires

C

C

Body Construction

Premium Midship (PM) platform with hybrid unibody assembled using high-precision, ultra-low-tolerance jigs similar to racecar construction

●

●

Aluminum hood, trunk lid and outer door skins

●

●

Die-cast aluminum front shock towers, inner roof and inner door structures

●

●

All outer body panels stamped using multiple-strike coining process for exceptional rigidity and precision

●

●

Carbon-composite front crossmember/radiator support

●

●

Advanced 6-stage paint process with double clear coat and chip-resistant paint in critical areas

●

●

Super Silver special metallic paint, with 8-stage process, including three clearcoats and hand-polishing to achieve a lustrous, liquid effect

●

●

Aerodynamics

Coefficient of drag – 0.27

●

●

Negative lift (downforce) generated at speed

●

●

Aerodynamic undertrays:

Impact-resistant polypropylene front undercover

Heat-resistant Sheet Molded Compound undercover behind front axle

Rigid, heat-resistant Carbon-Sheet Molded Compound undercover ahead of rear-mounted transaxle

Carbon-fiber composite diffuser tray at rear of car

●

●

Body-color rear spoiler

●

●

Front fenders designed to optimize air management around the wheels

●

●

Optimized airflow through the undercarriage and wheel arches to help cool the engine, drivetrain and brakes

●

●

Styling and Functionality

Super-wide-illumination High Intensity Discharge (HID) xenon headlights

●

●

LED taillights and brake lights

●

●

Dual heated body-color power outside mirrors

●

●

Power folding outside mirrors

●

●

Flush-mounted aluminum door handles

●

●

Four 5" exhaust outlets with polished tips

●

●

UV-reducing solar glass

●

●

LEGEND

C Part of Cold Weather Package

INTERIOR

GT-R

GT-R Premium

Convenience

Nissan Intelligent Key™ with Push Button Ignition

●

●

Electronic analog instrument cluster with upshift indicator, multi-function drive computer and digital gear indicator

●

●

Bluetooth® Hands-free Phone System

●

●

HomeLink® Universal Transceiver

●

●

Dual Zone Automatic Temperature Control (ATC)	●	●
In-cabin microfilter	●	●
Power front windows with one-touch auto-up/down and auto-reverse	●	●
Power door locks with auto-locking feature	●	●
Remote keyless entry with trunk release	●	●
Cruise control with steering wheel-mounted controls	●	●
Tilt and telescoping steering column with integrated gauges	●	●
Variable-intermittent flat-blade windshield wipers	●	●
Dual illuminated visor vanity mirrors	●	●
Overhead sunglasses storage	●	●
Map lights	●	●
Auto-dimming inside rearview mirror	●	●
12-volt DC power outlets (2)	●	●
Battery saver	●	●
Lockable glove compartment	●	●
Front door pockets	●	●
Cup holders (2 front, 1 rear)	●	●

Seating and Appointments

Leather-appointed front seats with synthetic suede inserts	●	●
8-way power driver's seat	●	●
4-way power front passenger's seat with entry/exit switch for rear passenger	●	●
Heated front seats	⊗	●
Leather-appointed seats	●	●
Heated front seats	●	●
Dual individual rear seats	●	●
French-stitched leather-trimmed dashboard, console and doors	●	●
Leather-wrapped steering wheel	●	●
Leather-wrapped magnesium paddle shifters	●	●
Leather-wrapped gearshift knob and parking brake lever	●	●
Brushed-metal interior trim	●	●
Aluminum-trimmed pedals	●	●

AUDIO/NAVIGATION/PERFORMANCE MONITOR

	GT-R	GT-R Premium
AM/FM/CD audio system	●	⊗
Six speakers	●	⊗
Digital Bose® audio system with AM/FM/CD	⊗	●
Eleven speakers, including dual subwoofers	⊗	●
9.3 GB Music Box™ hard drive for digital music storage and playback	●	●
MP3/WMA CD playback capability	●	●
In-dash CompactFlash® card reader for MP3/WMA playback	●	●
Speed-sensitive volume control	●	●

XM® Satellite Radio – includes activation and 3 months of service [3]	●	●
Interface System for iPod® [4]	AC	AC
Steering wheel-mounted audio controls	●	●
Diversity antenna	●	●
Nissan Hard Drive Navigation System with GPS and voice recognition	●	●
XM NavTraffic® – includes activation and 3 months of service [3]	●	●
7-inch WVGA high-resolution color-LCD touch-screen display for audio, navigation and performance monitor	●	●
Driver-configurable Multi-Function Display system, developed in collaboration with Sony® Polyphony Digital and Xanavi Infomatics Corp., with graphical readouts of vehicle data and driving data displayed on a total of 11 screens: Two reconfigurable screens featuring driver-selectable choice of up to three readouts: engine coolant temperature, oil temperature and oil pressure; transmission oil temperature and oil pressure; turbo boost; fuel/range; injector pressure; recent fuel economy; and lateral, longitudinal and total G-force Two reconfigurable screens featuring driver-selectable choice of up to six readouts: all of the above plus front/rear torque distribution; driver’s accelerator, brake pedal and steering angle inputs; and clock Acceleration screen: Acceleration G-force, turbo boost and driver’s accelerator input Braking screen: Braking G-force, digital speedometer and driver’s brake pedal input Steering screen: Lateral (cornering) G-force, digital speedometer and driver’s steering angle input Gear position screen: Gear efficiency, digital speedometer and gear selection Fuel economy screen: Recent fuel efficiency displayed as graph and digital average, and instantaneous fuel economy Lap time recorder screen: Lap timers and digital speedometer Driver’s notes screen: Notes, fuel range (distance to empty), elapsed trip mileage Monitor also provides displays and interface for programmable vehicle settings, vehicle information, audio and navigation systems	●	●

LEGEND
 AC Accessory

SAFETY

	GT-R	GT-R Premium
Nissan Advanced Air Bag System (AABS) with dual-stage supplemental front air bags with seat belt and occupant-classification sensors	●	●
Driver and front-passenger seat mounted side-impact supplemental air bags	●	●
Roof-mounted curtain side-impact supplemental air bags for front occupant head protection	●	●
Front seat belts with pretensioners and load limiters	●	●
3-point ALR/ELR passenger seat belt system (ELR for driver)	●	●
LATCH System (Lower Anchors and Tethers for CHildren)	●	●
Zone Body construction with front and rear crumple zones	●	●
Hood buckling creases	●	●
Energy-absorbing steering column	●	●
4-wheel Anti-lock Braking System (ABS)	●	●
Electronic Brake force Distribution (EBD)	●	●
Tire Pressure Monitoring System (TPMS)	●	●

SECURITY

	GT-R	GT-R Premium
Nissan Vehicle Immobilizer System	●	●
Vehicle Security System	●	●

CURB WEIGHTS

Curb Weights (lbs)	GT-R	GT-R Premium
Total	3,814	3,829
Weight distribution	53/47	53/47

FUEL ECONOMY

2009 EPA Fuel Economy Estimates	GT-R	GT-R Premium
City/Highway	16/21	16/21

Actual mileage may vary with driving conditions – use for comparison only.

CAPACITIES

Interior passenger volume (cu. ft.)	79.0
Cargo capacity (cu. ft.)	8.8
Fuel tank (gals.)	19.5

DIMENSIONS

Exterior (inches)

Wheelbase	109.4
Overall length	183.1
Overall width	74.9
Overall height	54.0

Track width (inches)

Front/rear	62.6/63.0
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Interior (inches)

Head room	38.1/33.5
Leg room	44.6/26.4
Hip room	54.7/44.9
Shoulder room	54.3/50.0

Legend

- Standard on this model Not Available on this model
 Optional on this model

Every Nissan is backed by a 36-month/36,000-mile limited vehicle coverage and a 5-year/60,000-mile limited powertrain coverage. (For complete information, see your Nissan dealer and read the actual limited warranty.) For extra protection, you can also add Security+Plus®, the only extended service agreement approved by Nissan.

[1] VDC, which should remain on when driving except when freeing the vehicle from mud or snow, cannot prevent accidents due to abrupt steering, carelessness, or dangerous driving techniques. Always drive safely.

[2] Always use appropriate tires for weather conditions. See owner's manual for details. Failure to use appropriate tires could cause an accident resulting in serious injury or death.

[3] XM® Satellite Radio and XM NavTraffic® require subscriptions sold separately after three month trial period. Fees and taxes apply, including any installation costs and a one-time activation fee. XM NavTraffic® available in select markets and XM radio service not available in Canada, AK and HI. Subscriptions governed by Customer Agreement, at xmradio.com. Fees and programming subject to change. © 2009 XM Satellite Radio Inc. XM name and XM NavTraffic are registered trademarks of XM Satellite Radio Inc. All other trademarks and channel names are property of their respective owners.

[4] Always give your full attention to driving. Avoid operating your iPod® in such a way that you can be distracted during vehicle operation. iPod charge through the Interface System may only be supported via use of FireWire® devices. See Dealer for details.

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