



Specifications - Nissan GT-R

MECHANICAL

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

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

FEEDBACK

4.056

2nd	2.301
3rd	1.595
4th	1.248
5th	1.001
6th	0.796
reverse	3.383
front final drive ratio (:1)	2.937
rear final drive ratio (:1)	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
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 wheel finish

C

Near-black metallic wheel finish



Exclusively developed tires, [2] nitrogen-filled at factory:

255/40ZRF20 (front)

285/35ZRF20 (rear)



Bridgestone® high-performance summer run-flat tires



Dunlop® ultra high-performance summer run-flat tires

U

Dunlop® all-season run-flat tires

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: <ul style="list-style-type: none"> 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	●
Automatic on/off 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

U Part of Ultra High Performance Summer Tires

C Part of Cold Weather Package

INTERIOR

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	●

FEEDBACK