2020 AVALON TRD PRO CONCEPT

In celebration of TRD’s 40th Anniversary, Toyota and TRD collaborated with Dan Gardner and his staff at DG-Spec to put the 2020 Avalon TRD through a metamorphosis. This development process spanned the USA, sending this family sedan drifting around the track at Road Atlanta, screaming through the turns at Sonoma and finally shaming sports cars with scorching lap times at the Streets of Willow.

This build reflects the collective vision of TRD, Toyota Racing and Gardner, a presentation of what an Avalon TRD Pro model could look and perform like. Engine upgrades increase the output to 330 horsepower, while a DG-Spec OS Giken Super Lock limited slip differential distributes power to the drive wheels. The Avalon’s suspension benefits from DG-Spec MCS adjustable coilovers, Vogtland springs and a DG-Spec Progress 3-way adjustable stabilizer bar. Stoptech ST40 4-piston calipers apply friction to 355mm 2-piece rotors to shed speed quickly while resisting brake fade.

DG-Spec designed a vented carbon-fiber hood to help with weight reduction and heat management. A DG-Spec carbon-fiber duck bill spoiler adds 100 pounds of downforce at 100mph to keep the Lacks carbon-fiber wheels with Goodyear Eagle F1 Supercar 3R tires pressed firmly to the tarmac.

Employing a number of stock parts from Toyota's vast parts bin improved the suspension performance. Combined with the aftermarket parts and bespoke carbon-fiber components, the Avalon TRD Pro Concept lost almost 150 pounds without removing any of the amenities, sound deadening or interior, maintaining the attributes of a true street car.

After recording a blistering 1:25.3 lap time at the Streets of Willow track in Rosamond, California, the Avalon TRD Pro Concept proved that it is far greater than the sum of its parts. According to fastestlaps.com, this full-size, front-wheel drive sedan outpaced such sportscars as the Porsche 911 Carrera S and Audi R8, to name a couple.

YEAR/MAKE/MODEL: 2020 Avalon TRD Pro Concept
ENGINE: 2GR-FKS 3,456cc V6 engine
HORSEPOWER: 330 Horsepower
ENGINE/DRIVETRAIN:
DG-Spec/OS Giken Custom Super Lock Limited Slip Differential
DG-Spec/Burns Custom 3-inch Cold Air Intake
DG-Spec/Burns Custom 3-inch Exhaust System
DG-Spec Custom Tundra Transmission Cooler System
SUSPENSION/CHASSIS:
DG-Spec/MCS 3-Way Adjustable Remote Reservoir Struts with Dry Brake Quick Disconnects (Front)
DG-Spec/MCS 2-Way Non-Remote Shocks with Inverted Mount (Rear)
DG-Spec/Haase Custom Ride Height Adjustment System (Rear)
Vogtland 2.25-inch Racing Springs (Front and Rear)
DG-Spec/Progress Adjustable 1.25-inch Stabilizer Bar with Spherical End Links (Rear)
Camber/Caster Plates
DG-Spec/Progress Adjustable Camber Arms (Rear)
RAV4 Aluminum Uprights (Front)
WHEELS/TIRES:
Goodyear Eagle F1 Supercar 3R 275/35R18 DOT tires
Lacks Custom Carbon-fiber 18x9-inch Ultra-lightweight Wheels
DG-Spec 10mm Wheel Spacers (Front)
19mm Steel Racing Wheel Studs
DG-Spec Custom Battery Tray/Tie-down
DG-Spec Custom Alignment and Corner Balancing
Racepak Vantage CL2 Cloud-based Data Acquisition System
G-Force Safety Gear
Tredwear Tire Decals
DEVELOPMENT TEAM:
Dan Gardner
John McNulty
John Kelly
Craig Stanton
Sean Morris