

Cadillac STS SAE 100

Technology Integration Vehicle





Cadillac STS

SAE 100 Technology Integration Vehicle

Technology integrated by the GM Performance Division, Concept Vehicle Group, and built by Special Projects Inc. in Plymouth, Michigan and the GM Performance Vehicle Development Center in Warren, Michigan. This vehicle demonstrates current and near-term General Motors' performance and technology.

Engine:

Supercharged LS2
Displacement 6.0L (364CID) Peak HP 505HP @ 5600 RPM
Peak Tq 520 Lb-Ft @ 3600 RPM
w/Oil Condition Sensor, Next Generation Electronic Throttle Control,
and Denso High Output Generator

Transmission:

6L90E Six-Speed Automatic w/Driver Shift Control

Exhaust:

Stainless Exhaust Headers, Dual Chambered Exhaust System,
and Exhaust Tips w/Active Valves

Driveline:

GKN Electronic Limited Slip Differential
Toyoda Machine Works Active Front Steer

Wheels:

Dynmag 2-piece Carbon Fiber Rims with Magnesium Spokes and
Fastened w/ Titanium bolts; 19" Front and 20" Rear

Tires:

Pirelli P Zero Rosso Asymmetrico
Front: 255/40 ZR19 & Rear: 275/40 ZR20

Suspension Components:

Multi-Link SLA Double Ball Joint Front Suspension w/Magnetic Ride Control

Brakes:

Front: 15" Diameter Brembo Composite Ceramic Discs w/6 Piston Calipers
Rear: 14" Diameter Brembo Composite Ceramic Discs w/4 Piston Calipers

Safety:

Valco Blind Spot Detection System
Mobileye Lane Departure System
Metzeler Automotive Profile Systems Decklid Obstacle Detection Sensing
Roll-over Airbags
Seat-Mounted Thorax/Pelvis Airbags
Dual-Depth Front Passenger Airbag
Next Generation OnStar

Exterior:

Visteon Corporation Advanced LED Front Headlamps and Foglamps
Carbon Fiber Hood Inner and Outer
Carbon Fiber Wheelhouses
Hoerbiger Hydraulics Power Decklid
ITW Capless Refuel System
Stabilus Infinite Door Checklinks
Bosch Ultrasonic Front & Rear Park Assists w/Rear Vision Camera
Kevlar Gray Metallic Paint by BASF
Microheat Heated Washer Fluid System

Interior:

Bosch 3-D Navigation System
Daewoo ISRVIM with Embedded Organic LED Screen
Tellurex Corporation Heated/Cooled Cupholders w/Extruded Electroluminescent Wire Light
Amerigon Variable Temperature Heated/Cooled Front Seats
InSeat Solutions Haptic Driver Seat/Massage Passenger Seat
Draexlmaier Leather Wrapped Door Trim Panels, IP and Console
Rear Seat Microsoft X-Boxes w/DVD packages
Rear Seating Supplemental Storage
Panasonic Rear Seating Camera
Promate Electronic 15" x 6" Reconfigurable LCD Cluster Screen
Ventech Rapid Supplemental Passenger Compartment Heating

Vehicle Development:

Program Manager, Renee Bryant, Concept Vehicle Group
General Motors Performance Division
General Motors Performance Division Vehicle Development Center
General Motors Powertrain Division
General Motors Structure & Safety Integration Center
General Motors Desert Proving Grounds
General Motors Milford Proving Grounds
Special Projects Inc.

Design:

New Exterior Styling by Kip Wasenko, Director, GM Design Studio
New Interior Styling by Jennifer Kraska, Creative Designer, GM Design Studio
Stewart Reed Design, Plymouth, Michigan

SPECIFICATIONS