

2022 Toyota Tundra



HUGHGOLDEN

FACILITATION DYNAMIC TESTING CURRICULUM DEVELOPMENT



WELCOME!

AGENDA:

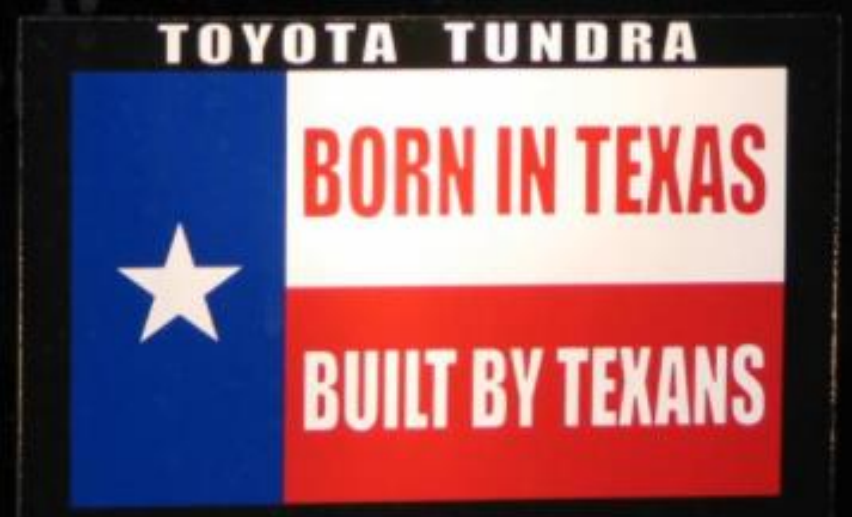
- Inventory Update
- QDR – Toyota Tundra Over Engineered
- Powertrains
- Towing and Hauling
- Safety
- Interior/Infotainment



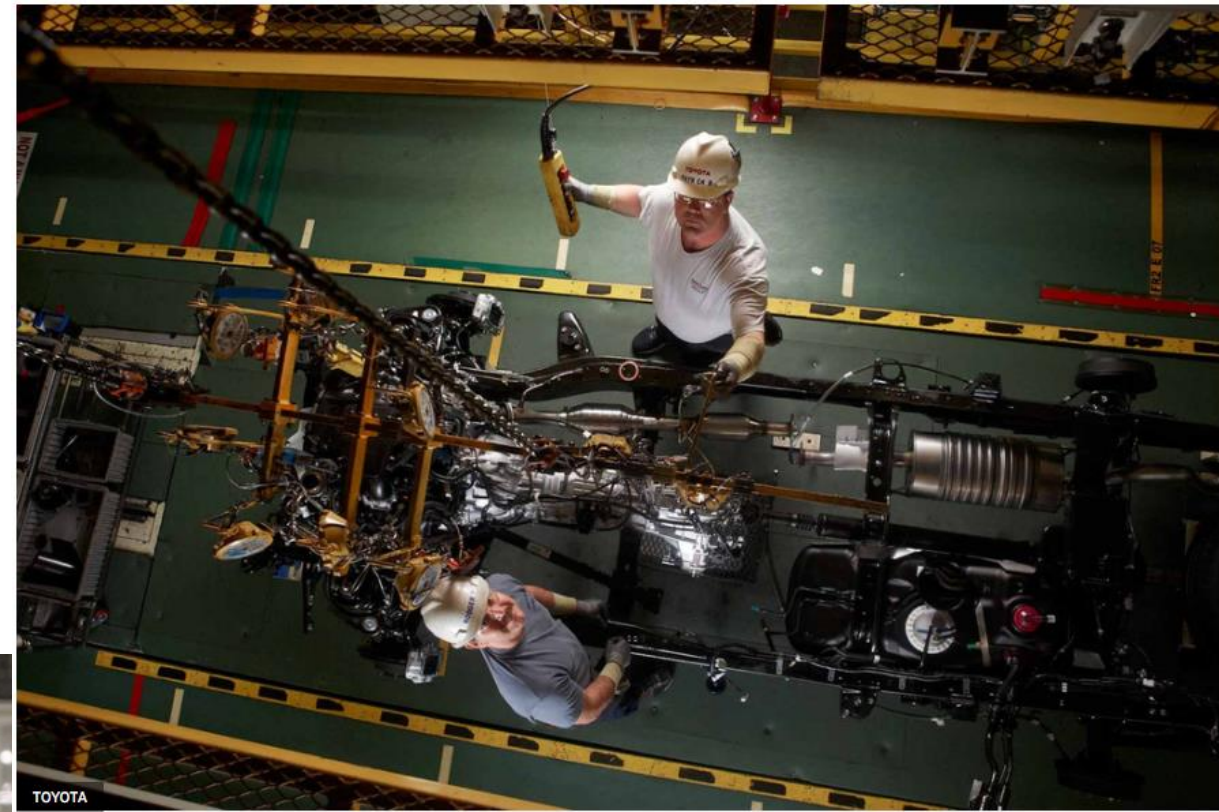
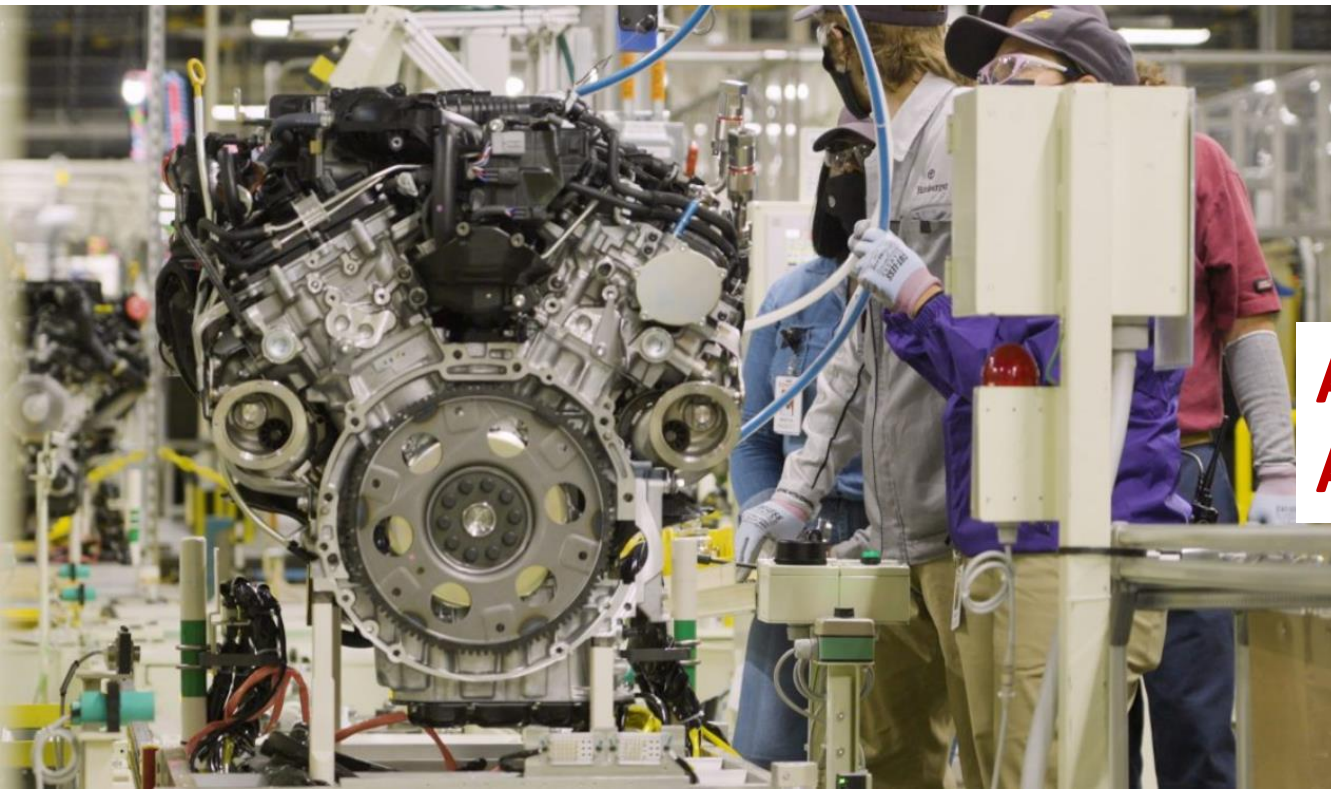
QDR



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Plant revs up exclusive production for two new engines, going in the 2022 Tundra



**All Tundras Are Built in San Antonio TX.
All Tundra V6 Engines are built in AL.**



TOYOTA

MILLION-MILE TUNDRA

Million Mile Tundra: The Tear Down

The Tear Down

Tim Esterdahl – May 9, 2017

Every truck maker talks about long-term reliability, but what does that really mean? How long is “long-term”? For Victor Sheppard, it is more than a million miles in his 2007 **Toyota Tundra**.

“Basically all I’ve done is oil changes,” Sheppard says. “The only mechanical issue I’ve had with my truck was at 776,000 when the reverse went out. I continued to use it, and thought if I ever got in a bind, I could just push it back.”

After spending a few months touring various Toyota facilities, the Million-Mile Tundra’s body, interior, and engine were recently torn down to examine just how well each individual piece held up during its life. The plan was to identify any defects and work with engineering to ensure they don’t arise in future products. Unfortunately, the plan didn’t go exactly as they hoped. The remarkable Tundra—driven relentlessly, often overloaded with cargo—was, well, unremarkable in that nothing significant was out of spec. The ’07 Tundra, now known affectionately as the “Beast,” quite literally could still be going strong today.



It was the night shift on March 28, 2007, at Toyota’s Huntsville, Alabama, engine plant when the Beast’s 4.7L V-8 began life as a non-descript piece of cast iron. Machined on site and then transported on a line around the facility, the engine was quality-checked several times before making its way onto a shipping crate bound for Toyota’s San Antonio, Texas, assembly plant. The engine was one of several thousand the facility would build that year.

After examining the parts, measuring them against specs and testing the engine on the dyno, the team was pleasantly happy to discover as it sits, the engine would have scored a 99/100 on their quality tests—high enough to pass it as a good engine.

Used 2007 Toyota Tundra Double Cab Pricing Report



Style: SR5 Pickup 4D 6 1/2 ft
Mileage: 999,999

Vehicle Highlights

Fuel Economy:
City 13/Hwy 17/Comb 15 MPG

Doors: 4

Drivetrain: 4WD

EPA Class: Standard Pickup Trucks

Country of Origin: Japan

Max Seating: 6

Engine: V8, 5.7 Liter

Transmission: Automatic

Body Style: Pickup

Country of Assembly: United States



Methodology

iSeeCars.com analyzed over 15.8 million pre-owned cars sold in 2019. Models that were not in production as of the 2020 model year, heavy duty-vehicles, and low-volume models were excluded from further analysis. For each model, the percentage of the number of cars with at least 200,000 miles was mathematically modeled.



iSeeCars Cars Most Likely to Reach 200,000 Miles by Make		
Rank	Model	% of Cars Over 200k Miles
1	Toyota	1.8%
2	Honda	1.6%
3	GMC	1.4%
4	Chevrolet	1.4%
5	Ford	1.1%
Average for All Models		1.0%
6	Lincoln	0.7%
7	Subaru	0.6%
8	Jeep	0.6%
9	Dodge	0.5%
10	Nissan	0.4%
11	Mercedes-Benz	0.3%
12	BMW	0.3%
13	Lexus	0.3%
14	Hyundai	0.3%
15	Volkswagen	0.3%
16	Kia	0.2%
17	Audi	0.1%
18	Porsche	0.1%

iSeeCars Longest-Lasting Vehicles to Reach 200k Miles		
Rank	Model	% of Cars Over 200k Miles
1	Toyota Land Cruiser	15.7%
2	Toyota Sequoia	9.2%
3	Ford Expedition	5.2%
4	Chevrolet Suburban	4.9%
5	Toyota Highlander Hybrid	4.2%
6	Chevrolet Tahoe	4.1%
7	GMC Yukon XL	4.1%
8	Toyota 4Runner	3.9%
9	GMC Yukon	3.2%
10	Honda Ridgeline	3.0%
11	Toyota Tundra	2.9%
12	Honda Odyssey	2.7%
13	Toyota Avalon	2.6%
14	Lincoln Navigator	2.6%
15	Toyota Tacoma	2.5%
Average for All Models		1.0%

iSeeCars Cars Most Likely to Reach 300,000 Miles		
Rank	Model	% of Cars Over 200k Miles
1	Toyota Land Cruiser	1.5%
2	Toyota Sequoia	0.4%
3	Ford Expedition	0.2%
4	Chevrolet Suburban	0.2%
5	GMC Yukon XL	0.2%
6	Toyota 4Runner	0.2%
7	Toyota Tundra	0.2%
Average for All Models		0.03%



Top 10 Brands Owners Keep for 15 Years or More			
Rank	Brand	% 15+ Year Old Cars Kept by Original Owners	Compared to Average
1	Toyota	9.8%	1.6x
2	Honda	8.1%	1.3x
3	Subaru	8.0%	1.3x
4	Acura	7.9%	1.3x
5	Mazda	6.3%	1.0x
Average for All Cars		6.1%	-
6	Mitsubishi	5.5%	0.9x
7	Hyundai	5.5%	0.9x
8	Chrysler	5.5%	0.9x
9	Nissan	5.3%	0.9x
10	Lexus	5.2%	0.9x

Top 10 Vehicles Owners Keep for 15 Years or Longer			
Rank	Vehicle	% 15+-Year-Old Cars Kept by Original Owners	Compared to Average
1	Toyota Prius	13.7%	2.2x
2	Toyota Highlander	12.4%	2.0x
3	Toyota Tacoma	11.6%	1.9x
4	Toyota Sienna	11.5%	1.9x
5	Toyota Tundra	11.3%	1.8x
6	Honda CR-V	10.7%	1.8x
7	Honda Pilot	10.4%	1.7x
8	Subaru Forester	9.8%	1.6x
9	Toyota 4Runner	9.4%	1.5x
10	Toyota Sequoia	9.1%	1.5x
Overall Average		6.1%	-

2021 Best Resale Value Brands



Best Resale Value Awards



2021 Best Resale Value Brand

Toyota takes the title with five category champions.



2021 Toyota Camry

Best Midsize Car



2021 Toyota Sienna

Best Minivan



2021 Toyota RAV4 Hybrid

Best Hybrid Car



2021 Toyota Tacoma

Best Midsize Pickup Truck



2021 Toyota Tundra

Best Full-Size Pickup Truck

Best Full-Size Pickup Truck Resale Value: 2021 Toyota Tundra

By Allyson Harwood

March 1, 2021



Predicted Resale Value After 5 Years of Ownership: 59.0%

When it comes to a full-size pickup with a strong reputation for durability, quality, and reliability, the [Toyota Tundra](#) is tough to beat. It's also capable and well-rounded, with the ability to tow more than 10,000 pounds. Factor in its comfortable ride and roomy cabin, and you have a family hauler that can easily get you, your loved ones, and your RV to your favorite vacation spot. The Tundra's excellent build quality ensures that this half-ton truck can work hard during the week, and it's set up for family duty on the weekend. It's for all of these reasons that the Toyota Tundra is the Full-Size Truck Best Resale Value Award winner for 2021.

2nd Place: 2021 Ford F-150



Predicted resale value after 5 years of ownership: 50.2% of original sticker price

3rd Place: 2021 GMC Sierra 1500



Predicted resale value after 5 years of ownership: 49.5% of original sticker price



10 Best Overall Resale Values of 2021: Cars, Trucks and SUVs



By **Allyson Harwood**

March 1, 2021

Overview



Kelley Blue Book's annual Best Resale Value Awards recognizes the 10 individual vehicles that are projected to retain the highest percentage of their original MSRP. This list represents the best of the best, and the threshold for this honor is high.

These vehicles retain their value better than 95 percent of all other models. While the average new vehicle will be worth about 40 percent of its original sticker price after 60 months, these 10 vehicles will return an average of more than 53 percent to their owners' pockets. For a \$35,000

vehicle that works out to a meaningful difference of about \$4,700 over a 5-year buy-own-sell ownership cycle. That's why choosing a car with good resale value can often save you more money in the long run than chasing big rebates and other incentives.

2021 Toyota Tundra



The well-rounded, capable Toyota Tundra posts the best resale values in its class year after year and is the best overall resale value of 2021. Find a Toyota Tundra.

2021 Toyota Tacoma

#4
of 10



The Toyota Tacoma is known for toughness, reliability, and quality, and has been one of the best overall resale values for 10 years. Find a Toyota Tacoma.



2021 Toyota 4Runner

#5
of 10



Reliable and rugged, the Toyota 4Runner remains popular thanks to a loyal following and excellent sales, which keep its resale value strong. Find a Toyota 4Runner.



2021 Toyota Land Cruiser

#9
of 10



The Land Cruiser is an off-road icon. It boasts durability, capability, and excellent resale value. Find a Toyota Land Cruiser.

2022 Toyota Tundra

A red 2022 Toyota Tundra is shown from a front-three-quarter view, driving through a sandy desert. The truck is kicking up a large, billowing cloud of dust from its front wheels. The background features a clear sky and distant, hazy mountains.

“Our customers take great pride in getting 500K to 600K miles out of their trucks, and I need to protect for that many miles or more.” – Mike Sweers – Chief Engineer Toyota Trucks

**Mike Sweers –
Toyota Trucks Chief Engineer
4WD Transfer Case Drive Belt
Half-Ton Competition – 1.25”
Ford F-250 – 1.50”
2022 Toyota Tundra – 1.75”**



TUNDRA OVER ENGINEERED AGAIN!

POWERTRAINS



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2022 Tundra Powertrains:

i-FORCE – Twin Turbo V6 3.4L (3,445 cubic centimeters) NOT 3.5L
Standard Tune - 348 HP / 405 TQ / 10 Speed Automatic - SR Trim
High Out-Put Tune - 389 HP / 479 TQ / 10 Speed Automatic
18 City 23 Hwy 20 Combined

All Aluminum Engine
Timing Chain

D4S Fuel Injection
24 Valves Dual VVT-I

Cooling and Reliability!!!

Specs



437 HP/583 Lb.-Ft.

i-FORCE MAX



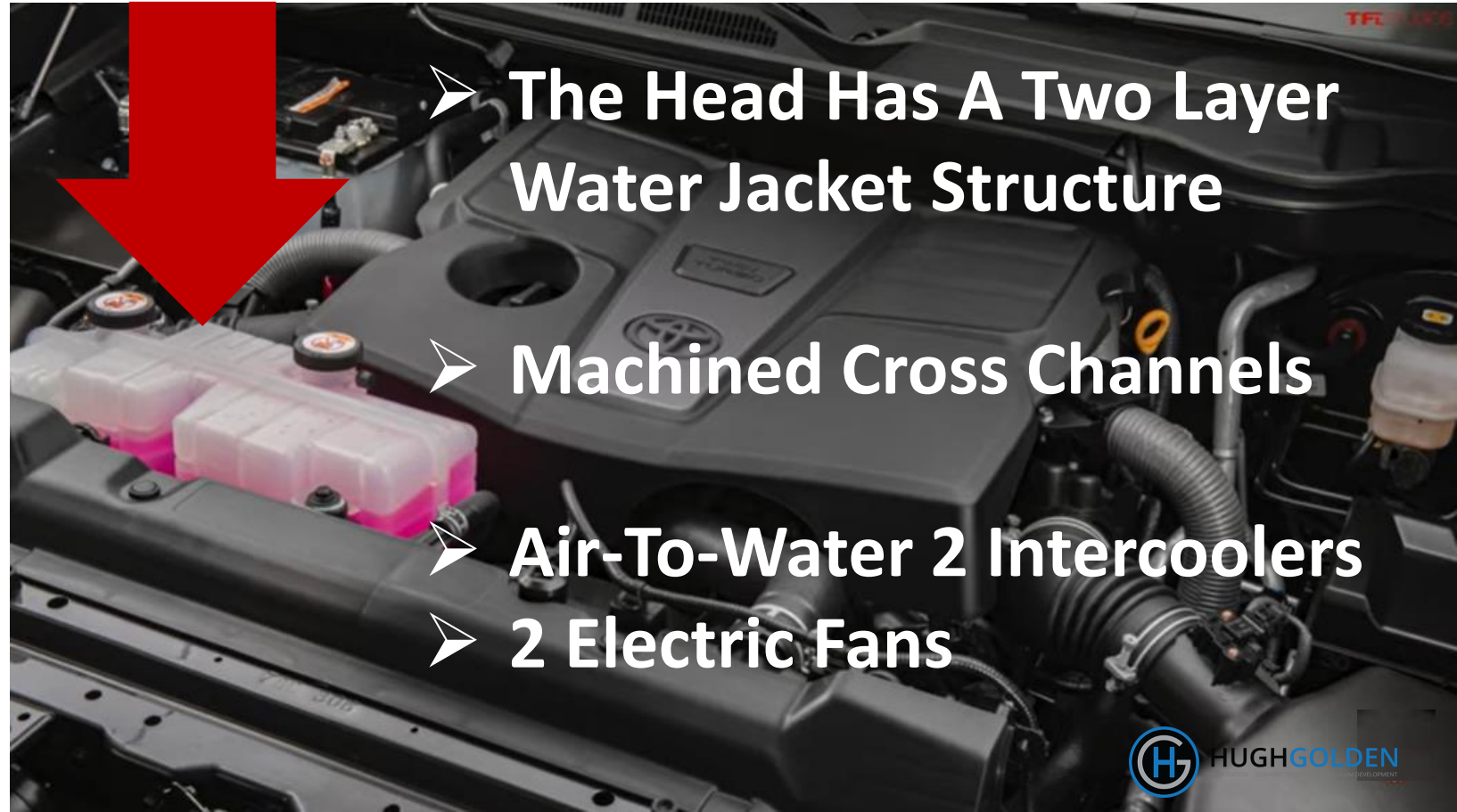
389 HP/479 Lb.-Ft.

i-FORCE



12,000 Lbs.

Max Towing



➤ The Head Has A Two Layer Water Jacket Structure

➤ Machined Cross Channels

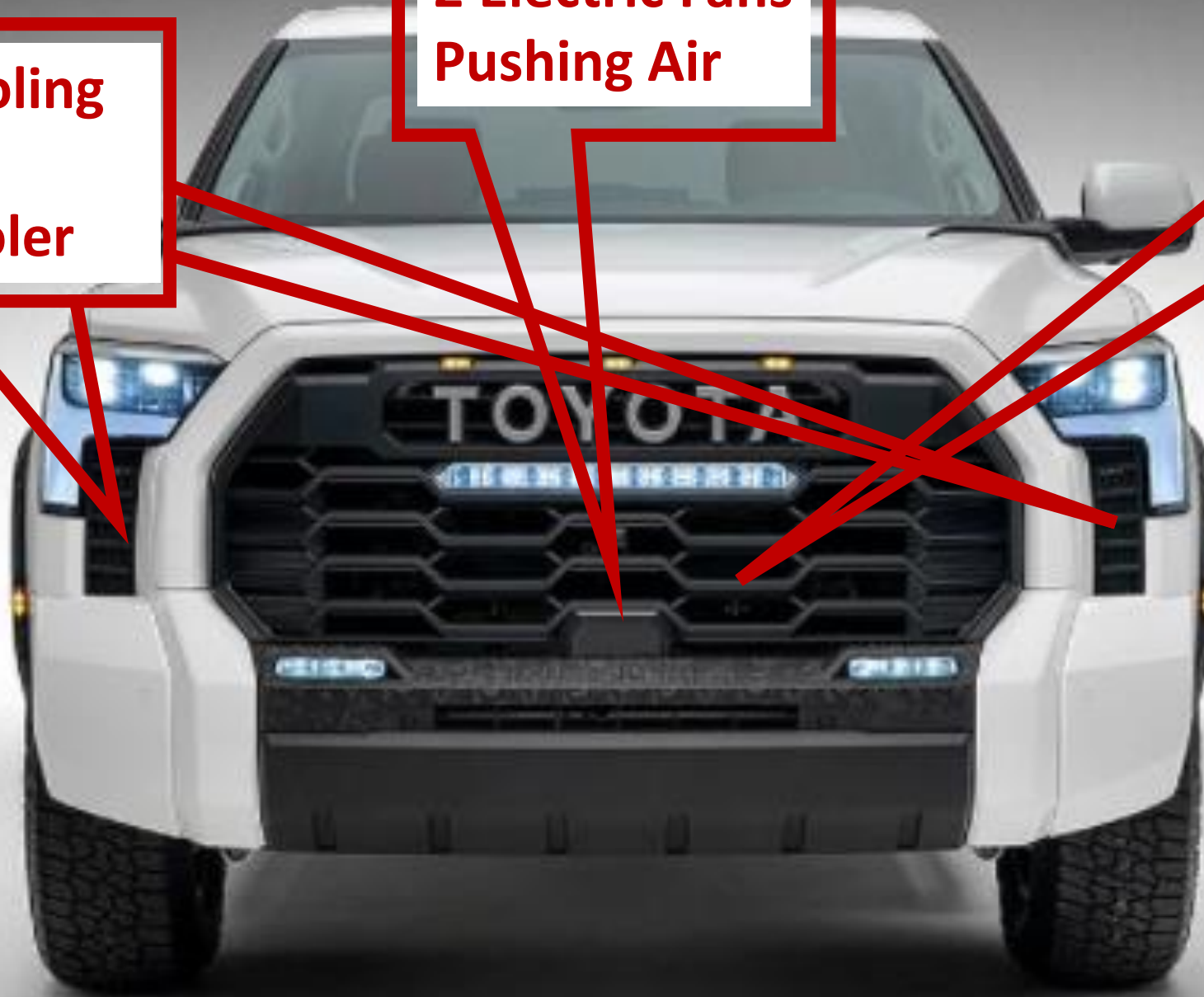
➤ Air-To-Water 2 Intercoolers

➤ 2 Electric Fans

**Functional Cooling
Vents For Each
Turbo Intercooler**

**2 Electric Fans
Pushing Air**

**Active Grill
Shutters For
Overall Cooling
at Lower Speeds**



2022 Tundra Powertrains:

i-FORCE MAX:

Hybrid

437 HP at 5,200 RPM

583 TQ at 2,400 RPM!!!



**10 Speed Automatic Transmission:
Now Responsible for Towing/Hauling**

2022 – Gear 1 – 4.92, Gear 2 – 3.26

2021 – Gear 1 – 3.33, Gear 2 – 1.96

Rear Axle Ratio

2022 – 3.31

2021 – 4.30

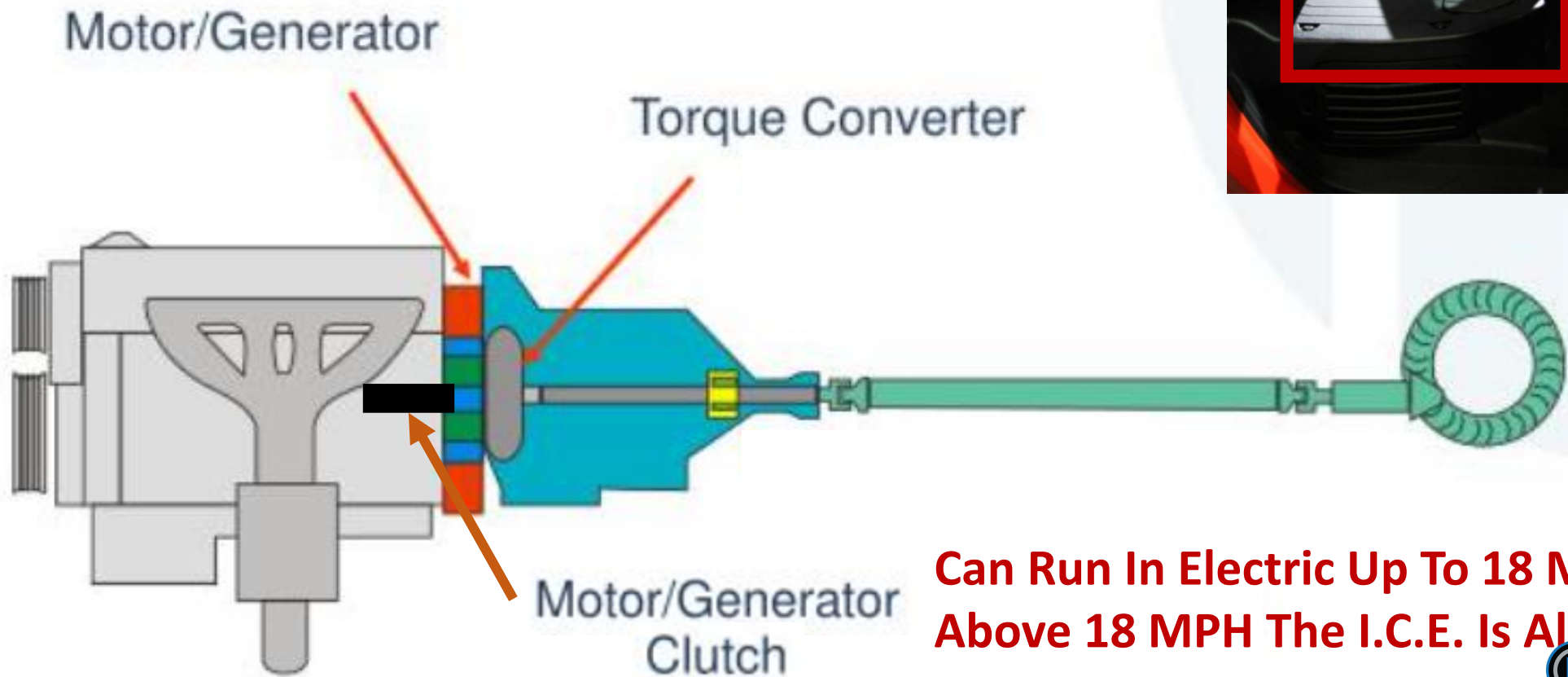
2022 Tundra Powertrains

Parallel Hybrid System - Not Series Parallel

48 HP 184 TQ Electric Motor

1.87 kWh Nickel-Metal Hydride – Ni-MH

Hybrid Powertrain 475 lbs. Heavier



Can Run In Electric Up To 18 MPH
Above 18 MPH The I.C.E. Is Always On



CALTY DESIGN



TMMTX — Toyota Motor Manufacturing Texas

TOWING/HAULING

2022 Toyota Tundra



Average Towing Of A Tundra Customer 8,300 lbs.

i-FORCE 12,000 lbs. Towing / i-FORCE MAX 11,450 lbs. Towing

2022 Toyota Tundra

Class 4 Hitch SAE Standard – SR5

Trailer Sway Control

Integrated Brake Control

Tow Haul Mode

Tow Haul Mode +



“Confident Natural Driving”



22.5 Gallon Fuel Tank – SR and SR5
32.2 Gallon Fuel Tank – SR5 Available
644 Miles of Range
Fuel Economy 18/23/20



2022 Toyota Tundra

Tailgate Release Standard on Key Fob
Button Release in the Tail Gate Handle

Push the button to lower the
Tailgate!

And Lower the step,
When equipped!



Power Running Boards and Step - Stand Alone Option



**SMC - Sheet Molded Composite
Reinforced with Aluminum
Maximum Payload - 1940 lbs.**

6.5' and 8.1' Beds on Double Cab / 5.5' or 6.5' Beds on Crew Max

2022 Toyota Tundra



TRIPLETECH™ FRAME

The name TripleTech™ refers to the different types of engineering employed on each of Tundra's three frame sections. Up front the frame is fully boxed [A] for rigid support of the engine. Under the cab a reinforced C design [B] provides a blend of rigidity and flexibility. Under the bed an open C design [C] is used, offering a measure of flex to help handle big payloads. The TripleTech™ design maximizes payload and reduces excess weight without sacrificing durability.

FRAME

2022 Toyota Tundra



TNGA F1 Platform
Fully Boxed High-Strength Steel
Cross Members are Double in Size
One Frame For Tundra, Land Cruiser, Sequoia
Tacoma, 4Runner, and Hilux
Hydraulic Cab Mounts

2022 Toyota Tundra

COIL SPRING

MULTI-LINK

SHOCK OUTSIDE FRAME



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A blue Toyota pickup truck is shown from a front-three-quarter view, driving on a road. The truck's headlights are on, and the background features a sunset sky with clouds. The word "SAFETY" is overlaid in large, bold, red capital letters across the center of the image.

SAFETY

2022 Tundra Safety

Available on SR5

Blind Spot Monitor With Trailer Merge Warning

Toyota
Safety
Sense

2.5

Tundra's Blind Spot Monitor (BSM) ¹⁴¹ is designed to warn you when a vehicle in the next lane enters your blind spot on either side of the vehicle. When you engage Toyota's Integrated Trailer Brake Controller (ITBC), ¹⁴⁷ the system automatically senses there's a trailer connected, estimates its length and activates Trailer Merge Warning—all without any input from the driver. And when you're reversing out of a tight spot, Rear Cross-Traffic Alert (RCTA) ¹⁴² helps detect vehicles approaching from either side, warning you with side mirror indicators and a warning tone. Altogether, Tundra's advanced safety technologies bring added peace of mind to every journey. Simulation shown. ¹³⁸



2022 Tundra Safety

LED Lighting Standard

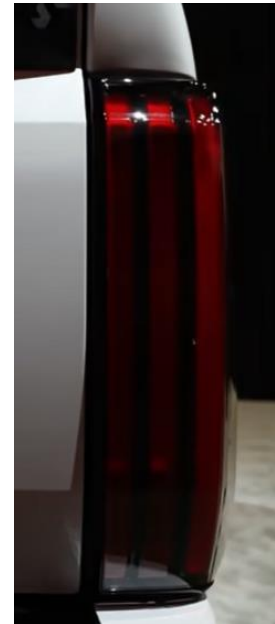
Low Beam with Manual/Auto Leveling

High Beam

Fog Lights – Not on SR

Bed Lights

Sequential Tail-Lights – Higher Trims



**Amber Running Lights
Only On the TRD PRO
Because They look
Cool. May Be
Required by Law.**





INTERIOR

2022 Tundra Infotainment

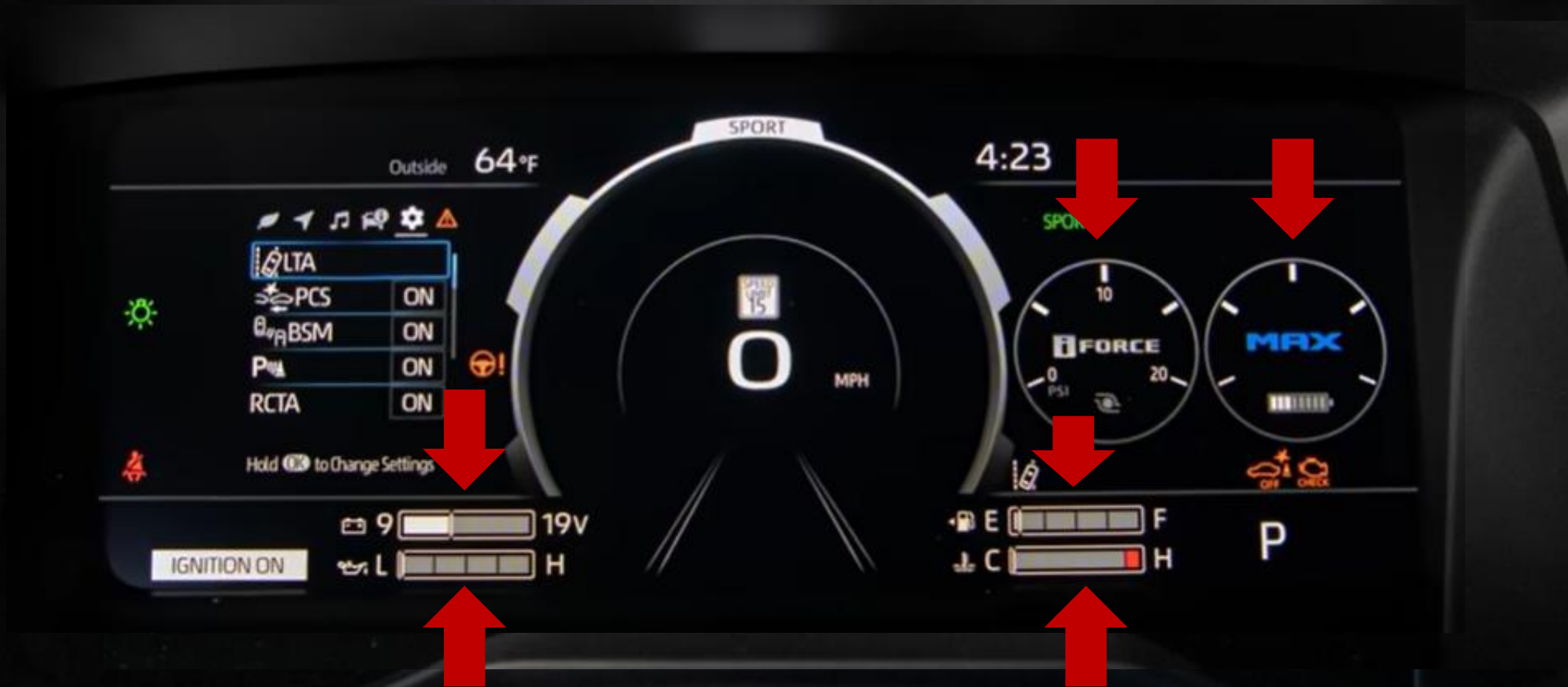




2022 Tundra – Driver Information Screen – 4.1” TFT



12.3" TFT Driver Information Screen



2022 Tundra Infotainment

Toyota Audio Multimedia System:

Processing Power Five Times The Existing System

Natural Speech Activated

Wake Up Phrases – “Hey/Hi/Hello/OK Toyota

Cloud-Based Native Navigation Allows OTA Updates

8” Screen Standard

14” Screen Available

Standard Wireless Apple Car Play and Android Auto





THANK YOU ALL!
Hugh Golden