

Welcome



Integrated Service Technical Application

Vehicle: TOYOTA2020CoupeTRFK 40VSS/AUT/ECR/4h-hand drive/201903

Class	Vehicle information	Vehicle management	Service plan
Documents/search	Troubleshooting	Service functions	Software update
Control unit exchange	Vehicle modification		

Comfort **Advanced**

Abbreviation	Control unit name	Programming	Coding
ACSM	Crash safety module	<input type="checkbox"/>	<input type="checkbox"/>
ASD	Active sound design	<input type="checkbox"/>	<input type="checkbox"/>
BDC	Body Domain Controller	<input type="checkbox"/>	<input type="checkbox"/>
CON	Controller	<input type="checkbox"/>	<input type="checkbox"/>
DME	Digital Motor Electronics	<input type="checkbox"/>	<input type="checkbox"/>
DSC	Dynamic Stability Control	<input type="checkbox"/>	<input type="checkbox"/>
EOS	Electronic transmission control	<input type="checkbox"/>	<input type="checkbox"/>
ENS	Ethernet switch	<input type="checkbox"/>	<input type="checkbox"/>

Required action
Code all control units
Display action plan

Integrated Service Technical Application

Vehicle

Class	Vehicle information	Vehicle management	Service plan
Vehicle details	Control unit tree	Control unit list	Service Case report

Vehicle ID no. Model series Development code Sales designation
Generator reading Engine Electrical machine Transmission
Engine Identification Electrical machine designation
Model Year Level Current level
Type code Type code Last programmed with
Programming data

Display action plan Start vehicle test Search information

Connector view Installation Location

1 2 3 4
8330226930 9362854

Documents Zoom in Zoom out Overview

GR Supra



3.0 Premium

8.8 in. display with navigation

Supra Connect, Apple CarPlay, 12-speaker JBL sound system, Bluetooth connectivity, iPod compatibility

Full leather interior with heated seats

\$53,990 (\$930 DPH)

3.0

6.5 in. display

Bluetooth connectivity, iPod compatibility

Alcantara interior

\$49,990 MSRP (\$930 DPH)





Launch Edition

- Starting at \$55,250
- Available in Absolute Zero White, Nocturnal Black and Renaissance Red 2.0
- Carbon fiber interior accents
- Carbon fiber dash insert with Akio Toyoda's signature



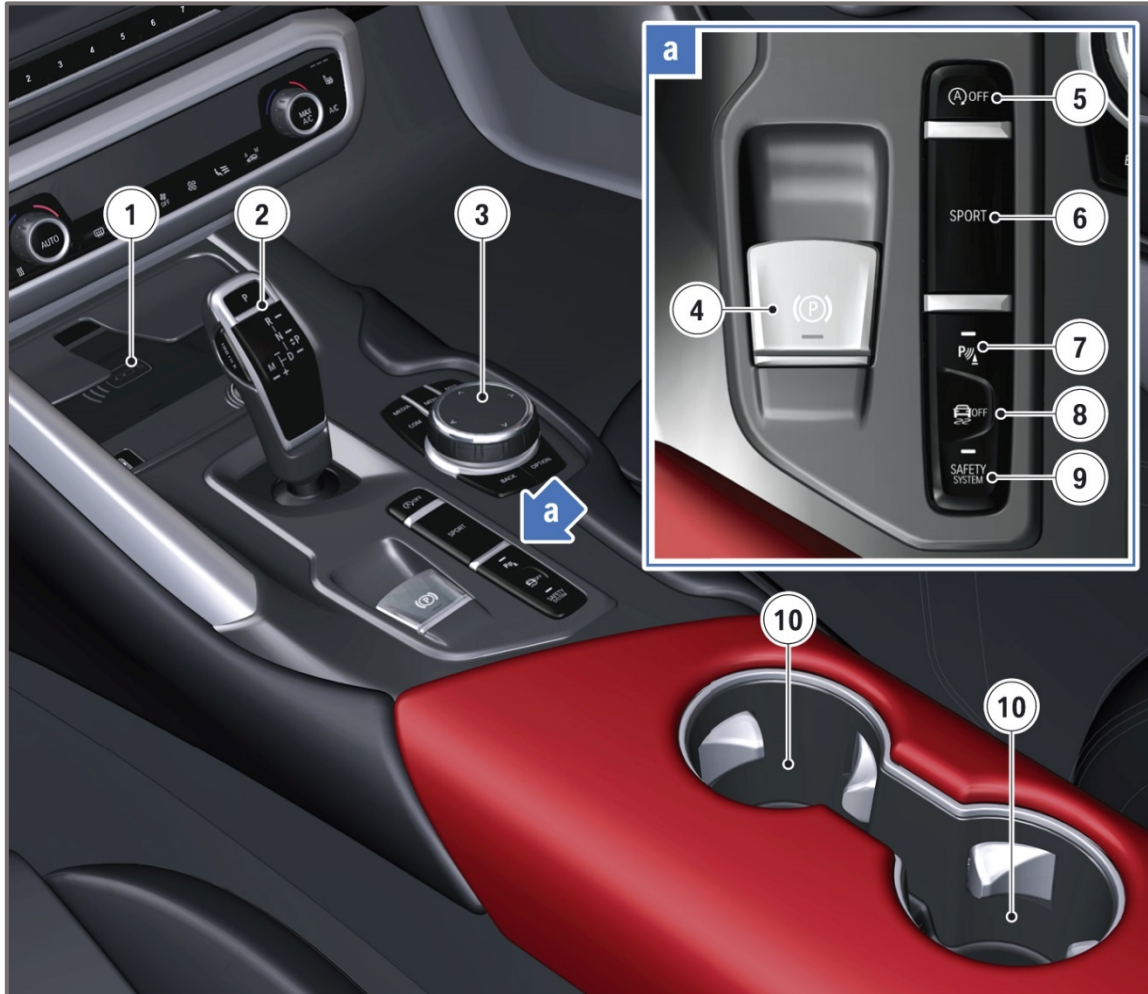
GR *Supra*

- 3.0L, 335-hp turbo inline six-cylinder producing 365 ft-lb of torque
- 0-60 mph in 4.1 seconds, making the Supra the quickest Toyota production vehicle to date.
- Curb weight is 3,397 lbs. with a 50:50 front/rear weight distribution
- 8-speed automatic transmission with paddle shifters
- 19" split spoke wheels
- Safety features include Pre-Collision Warning, Pedestrian Detection with automatic emergency braking, Lane Departure Warning with steering assist, Road Sign Assist, and Automatic High Beams
- Driver Assist Package includes full speed Dynamic Radar Cruise Control, Blind Spot Monitor, Rear Cross Traffic Alert and Parking Sonar.





Index	Explanation
1	Light operating unit
2	Left control panel of the multifunction steering wheel (assistance systems)
3	Instrument cluster (KOMBI)
4	Right control panel of the multifunction steering wheel (infotainment)
5	START-STOP button
6	Central information display CID
7	Hazard warning switch
8	Radio operating unit
9	Heating and air conditioning controls



Index	Explanation
1	Wireless charging station (WCA)
2	Selector lever
3	Controller
4	Parking brake button
5	Button for auto start/stop function
6	SPORT button
7	Parking assistance button
8	DSC button (Dynamic Stability Control)
9	Intelligent Safety button
10	Cupholder



8.8” Touch-screen with Supra Command featuring:

- Touchpad control with navigation,
- AM/FM
- Digital audio
- SiriusXM®
- Wireless Apple CarPlay® compatible
- Voice recognition
- USB/Bluetooth® wireless connectivity

Identified by the 7-button
Supra Command Controller



Toyota Supra Assistance 14:34

- Concierge Services
- Roadside assistance
- Customer support

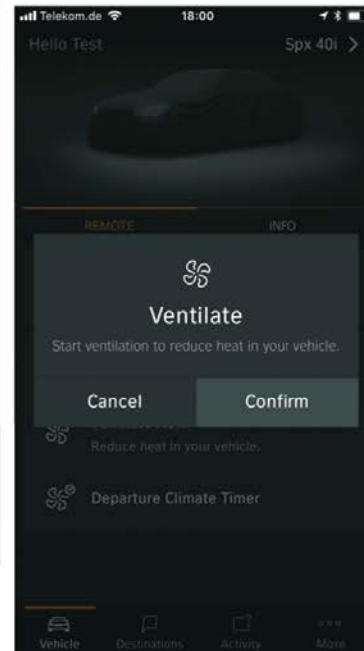
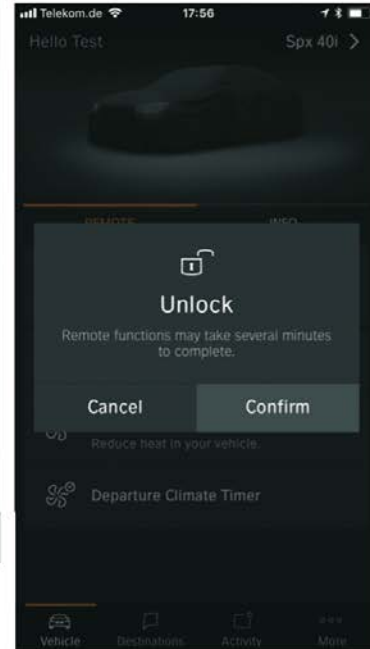
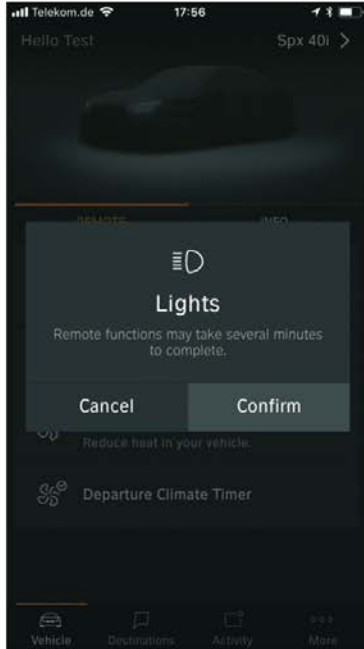
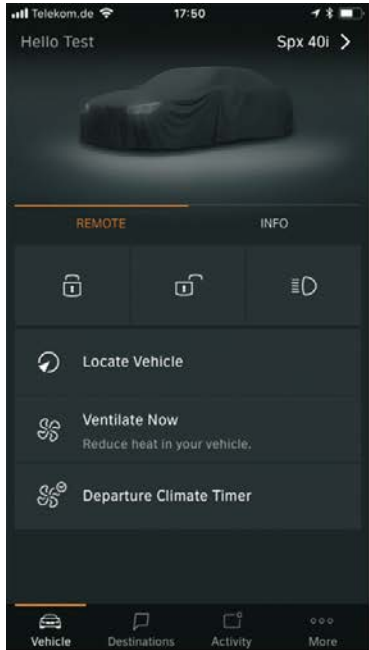
Toyota Supra Connect 14:33

Vehicle apps

- Weather
- News
- Online search
- Wiki Local
- Manage mobile devices

FORECA Weather

Current weather: München, Bayern 24 °C



Toyota Supra Connect: (Available with the 8.8" Touch Screen)

- Automatic Emergency Calling
- Battery Guard
- Remote-Control Lock/Ventilation
- Real-Time Traffic Information
- Map Updates
- Concierge Service
- Toyota Supra Online



More info at www.Supraconnect.com

Navigation System Components (With 8.8" Touch Screen)



Central Information Display (CID)

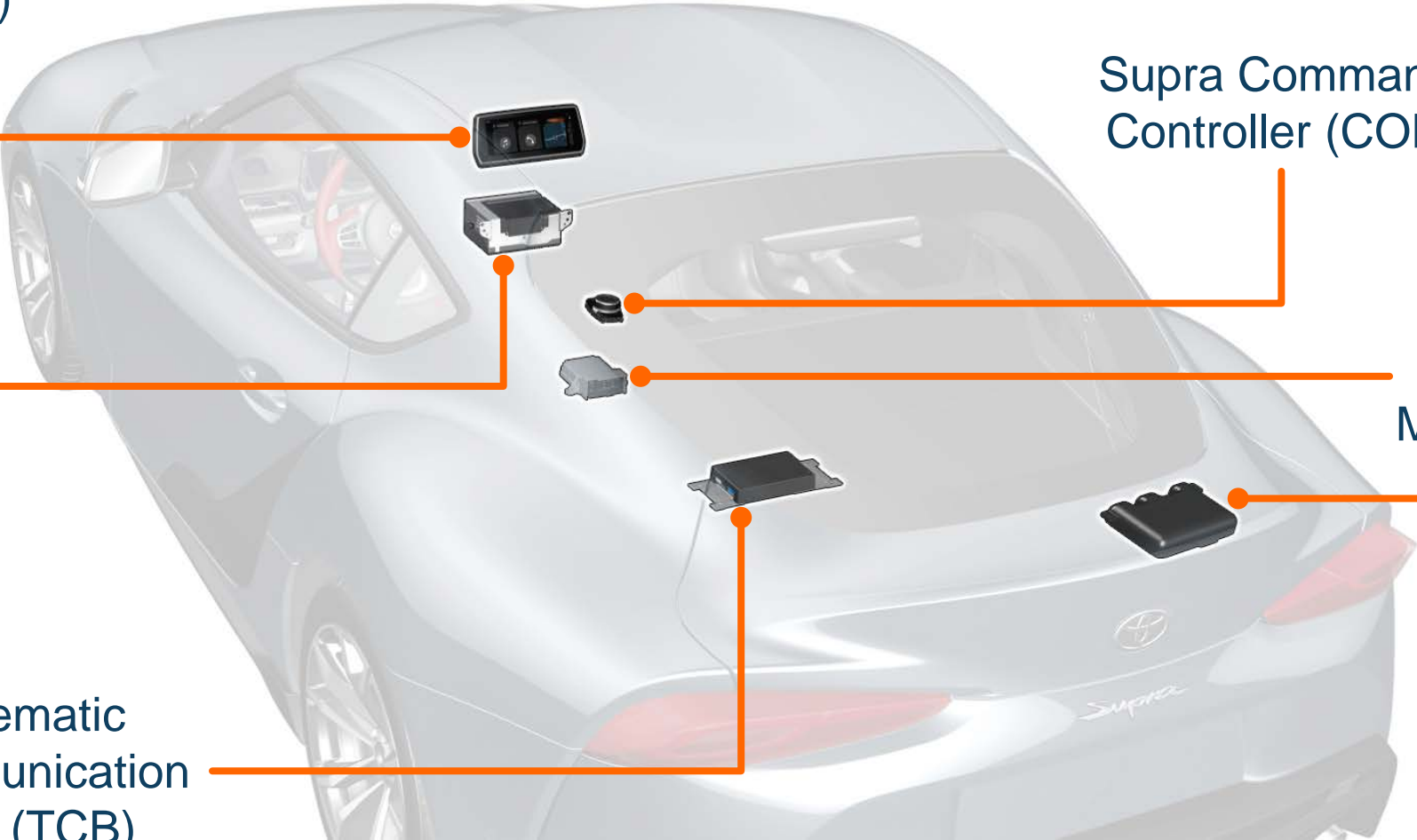
Supra Command Controller (CON)

Head Unit (HU-H)

Crash Safety Module (ACSM)

Telematic Communication Box (TCB)

GPS Antenna





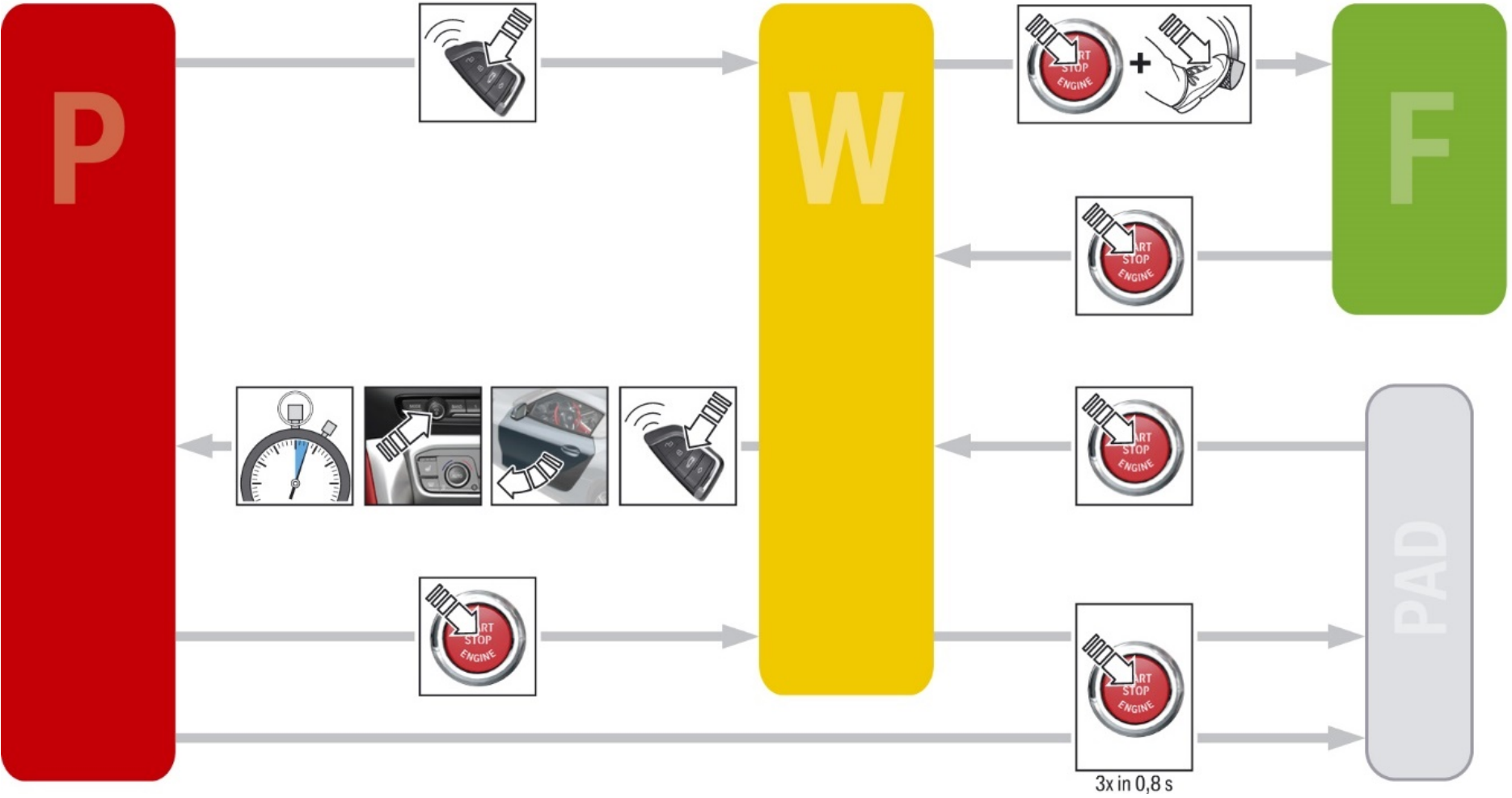
Parking

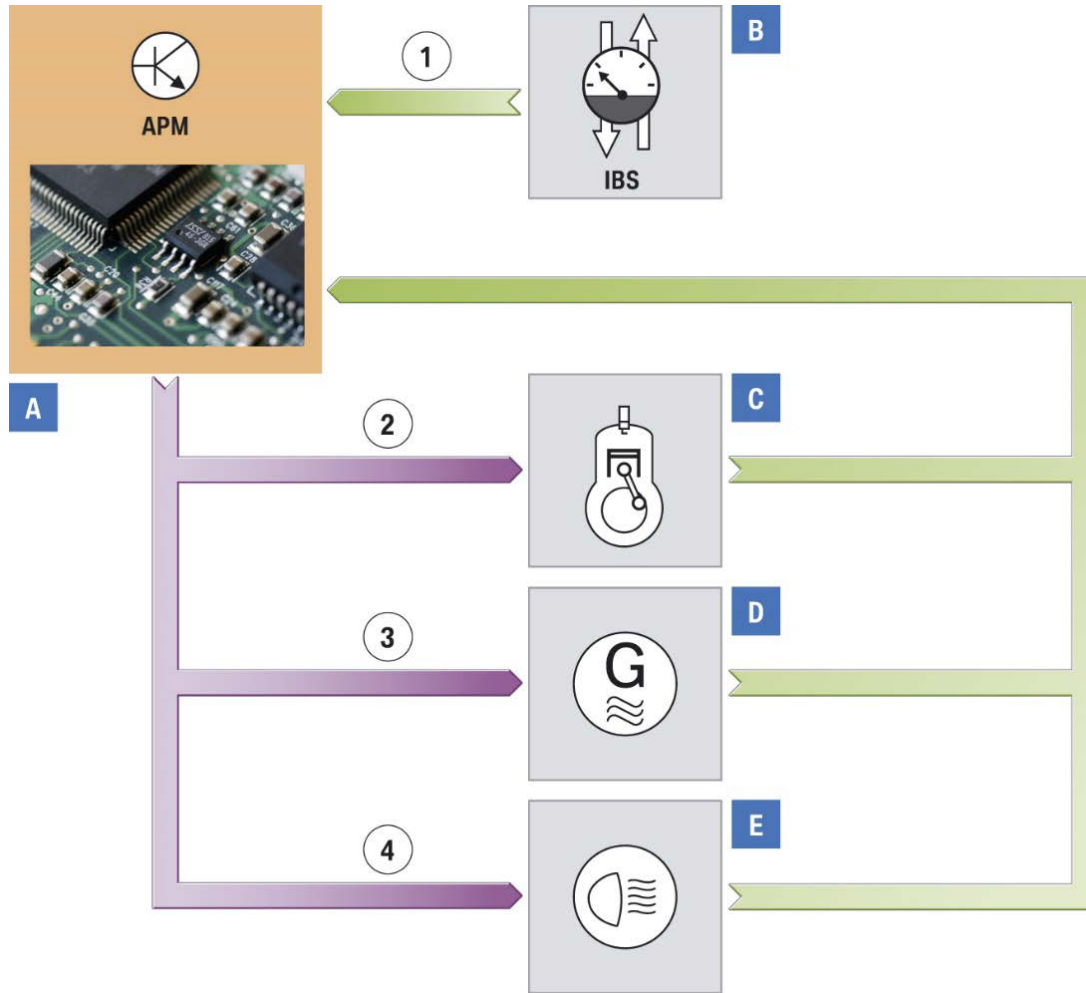


Residing



Driving





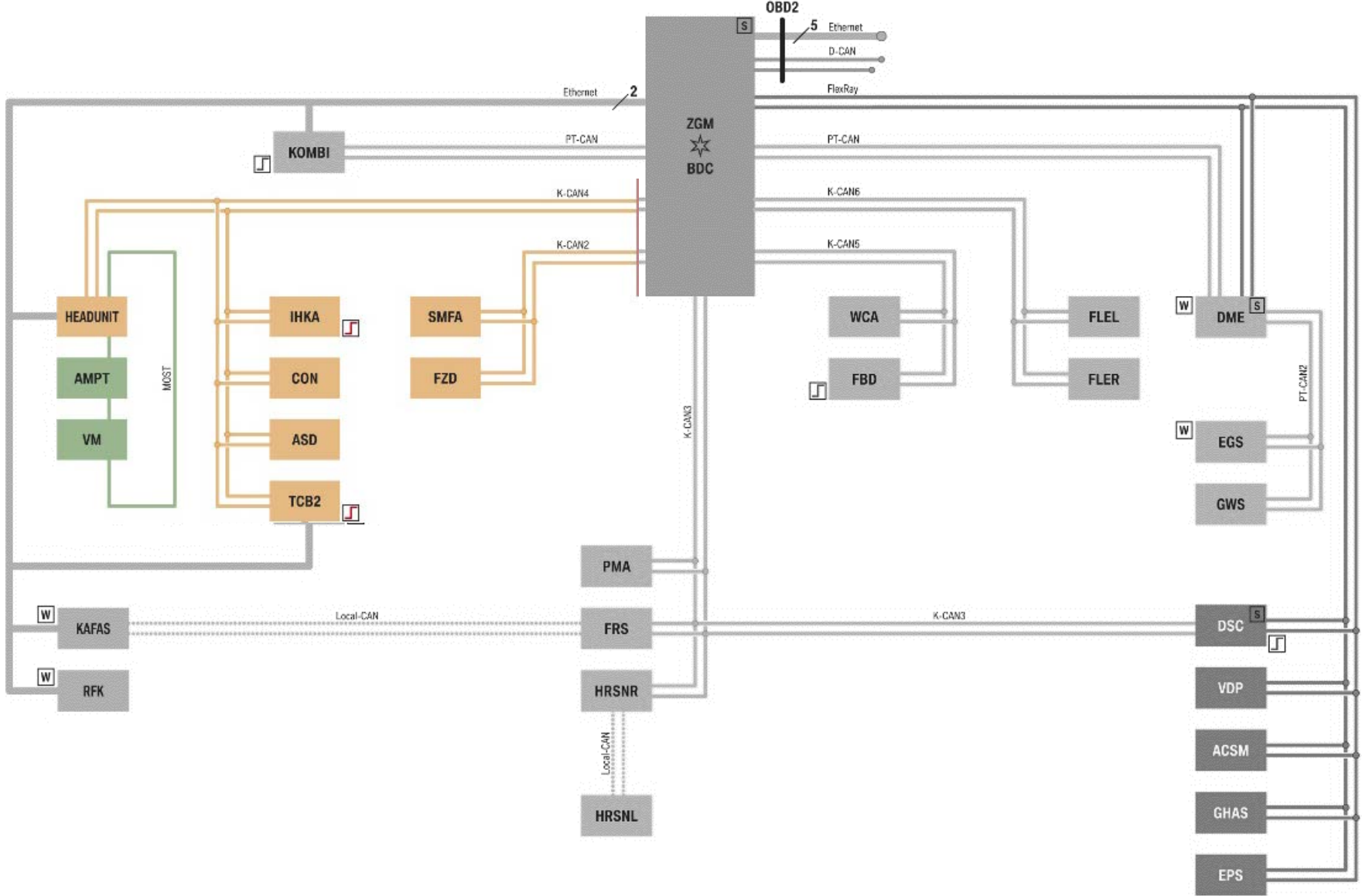
Index	Explanation
A	Advanced Power Management
B	Intelligent battery sensor
C	Combustion engine
D	Alternator
E	Electrical consumers
1	
2	
3	
4	



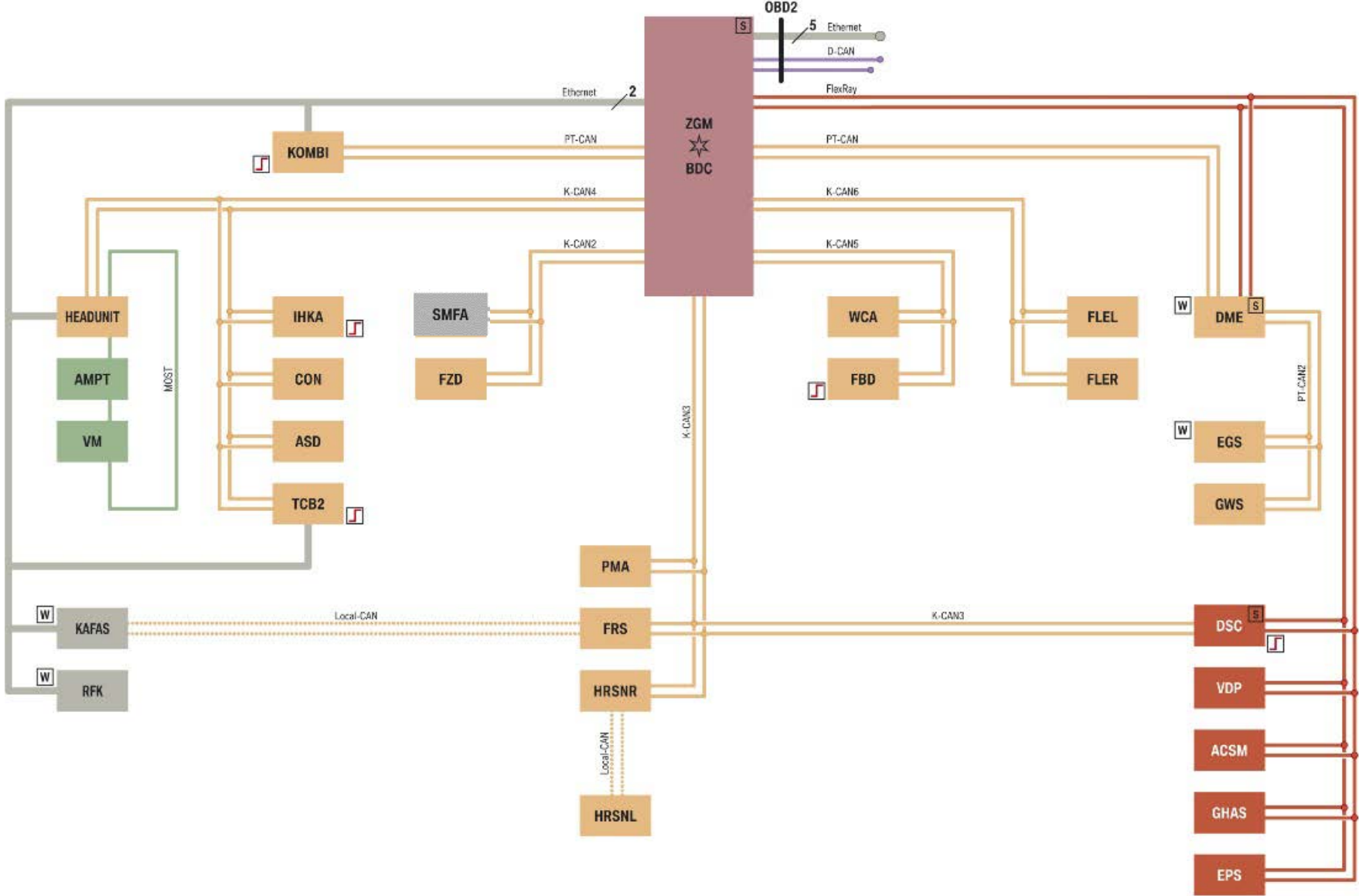
Intelligent battery sensor

- Voltage
- Temperature
- Current

Subnetwork Operation – Residing Mode



Subnetwork Operation – Driving



Minimum hardware requirements are listed in Toyota ISTA Installation Instructions.

Software Downloads

Here you will find quick access to additional software downloads required for RAV4 EV
Note: Administrator level rights are required to complete the installs.

RAV4 EV

[RAV4 EV 1.1.42 Diagnostic Software](#)
Use this software for diagnostics and vehicle firmware updates for the RAV4 EV powertrain.

- [RAV4 EV Diagnostic Software User Manual](#) » Updated: 08/28/2018
- [RAV4 EV Firmware](#)

NOTICE: In order to maintain full functionality of the RAV4 EV diagnostic software, you must apply the patch below. This process only needs to be done one time.

- [Patch Installation Instructions](#)
- [RAV4 EV Patch Download \(TESS\)](#)

SUPRA

[Supra Diagnostic Software Toyota ISTA V4.17.31.18228](#) » Updated: 07/23/2019
Use this Software to diagnose and reprogram the Supra. The Supra Diagnostic Cable is not used, ECU damage may occur.

NOTICE: Must have Techstream Version 14.10.034 or newer installed and registered.

- [Toyota ISTA Installation Instructions](#) » Updated: 07/09/2019



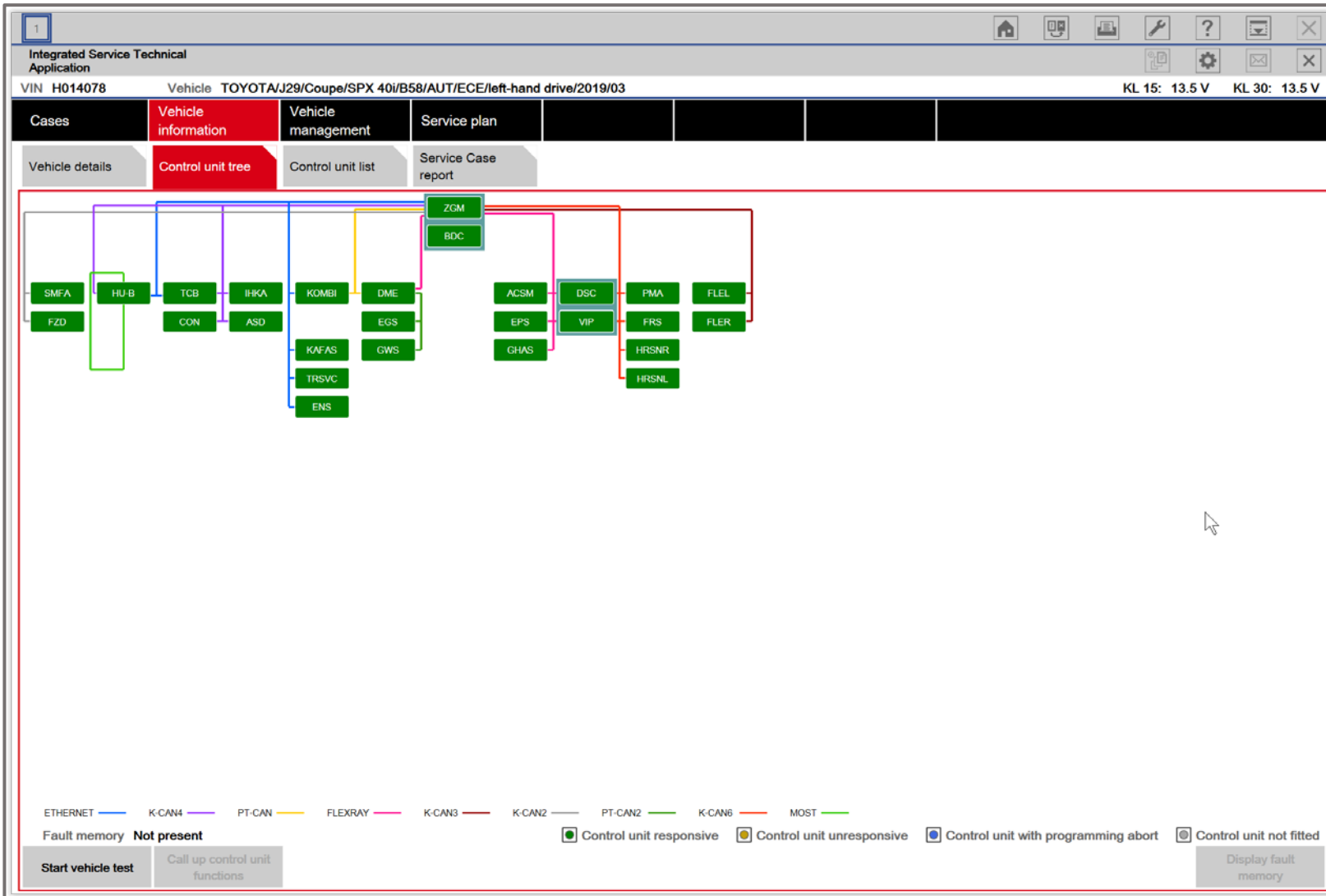
High Performance Computer



Techstream ADVi

ISTA Diagnostic Cable (w/Ethernet connector)

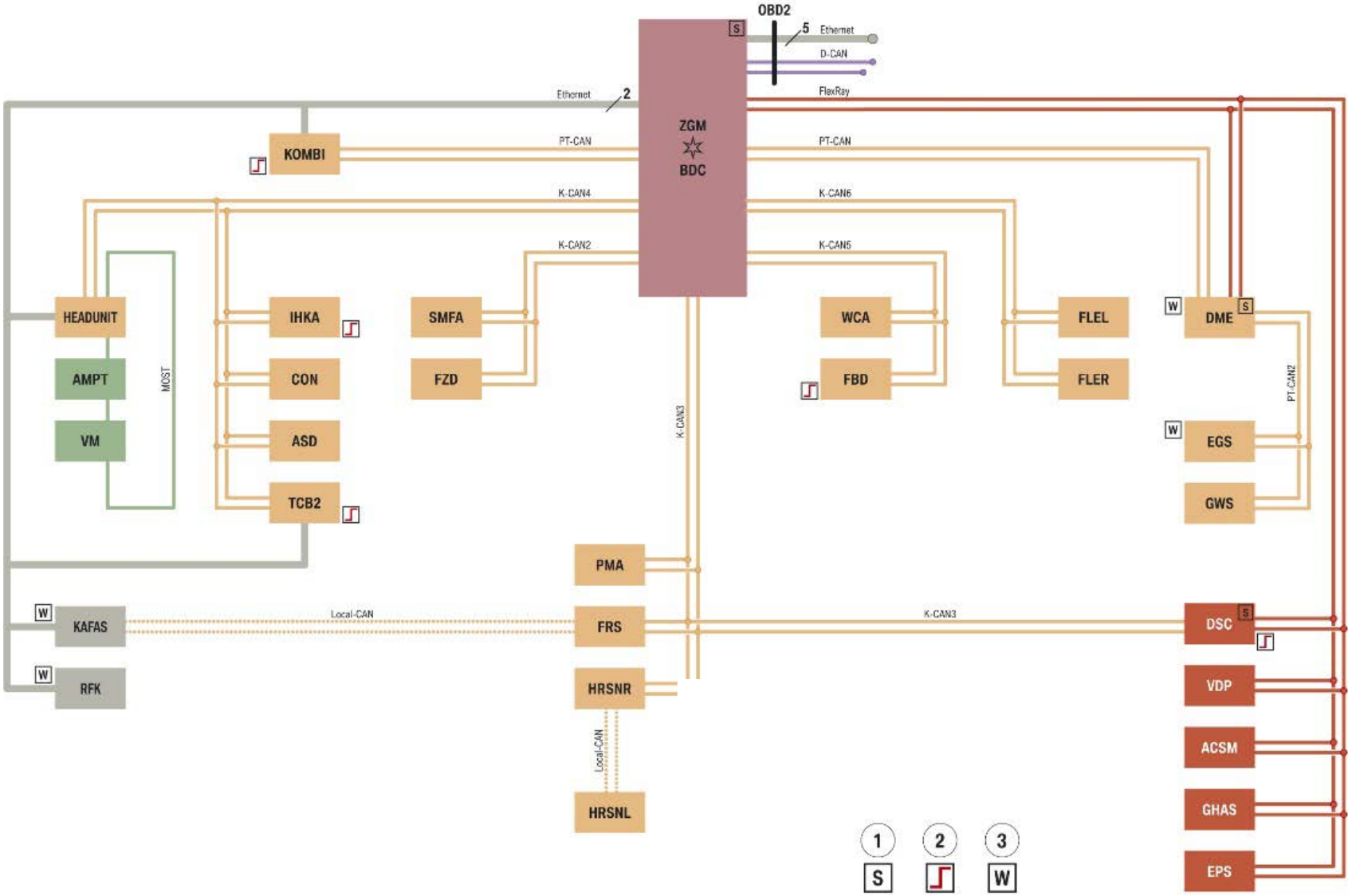




Integrated Service Technical Application (ISTA)

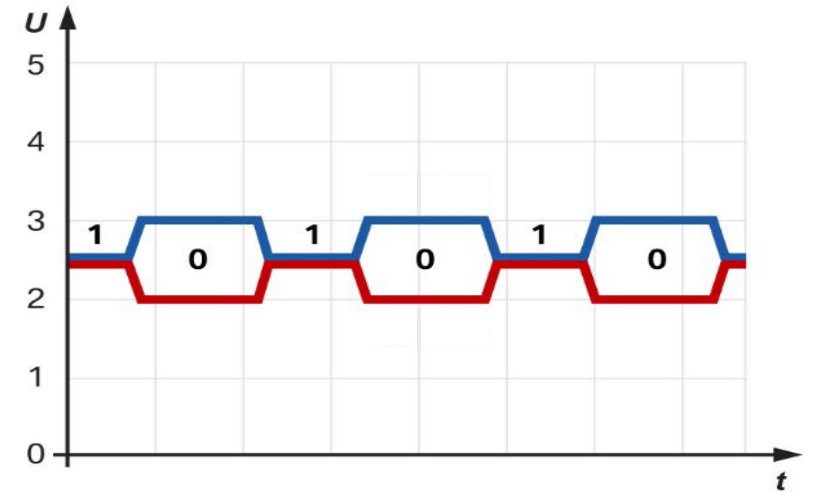
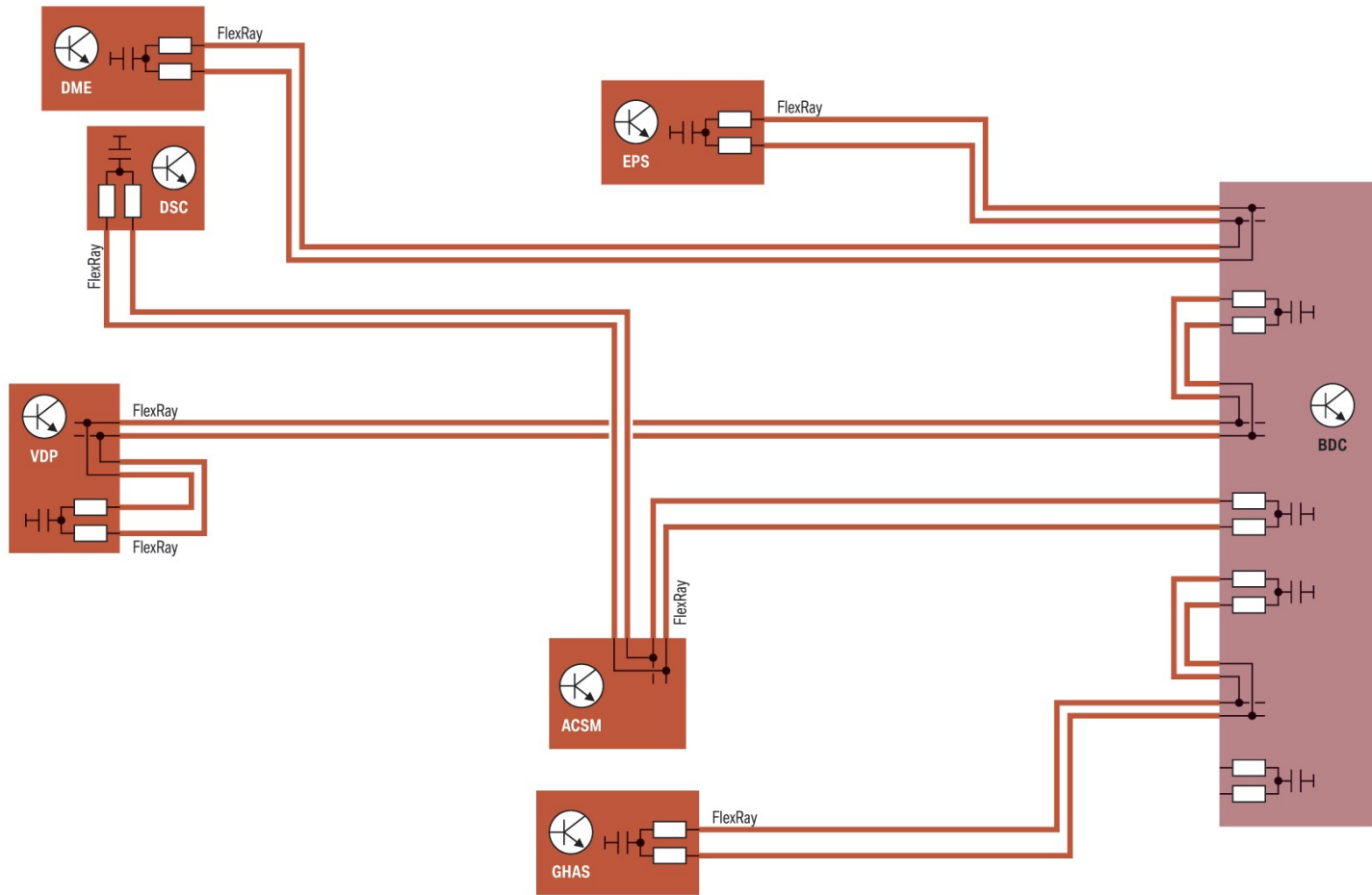
New scan tool platform

- Guided diagnostics
- EWDs

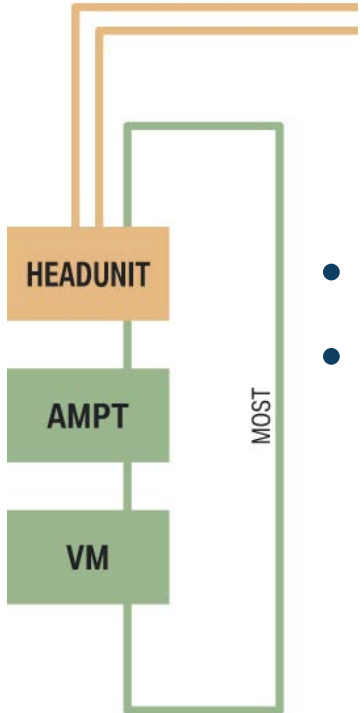
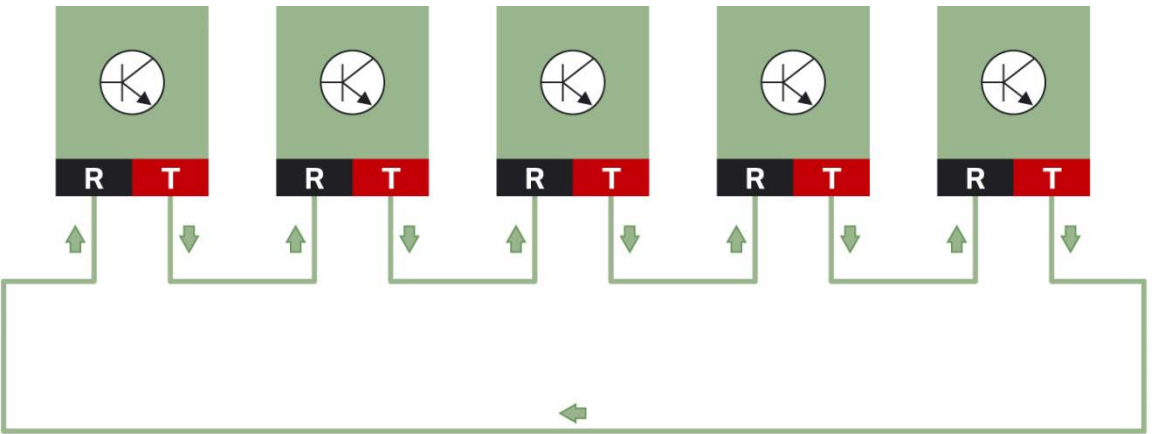


- PT-CAN
- K-CAN
- D-CAN
- Local CAN
- FlexRay
- MOST
- Ethernet
- LIN bus
- APIX

(New to Toyota)




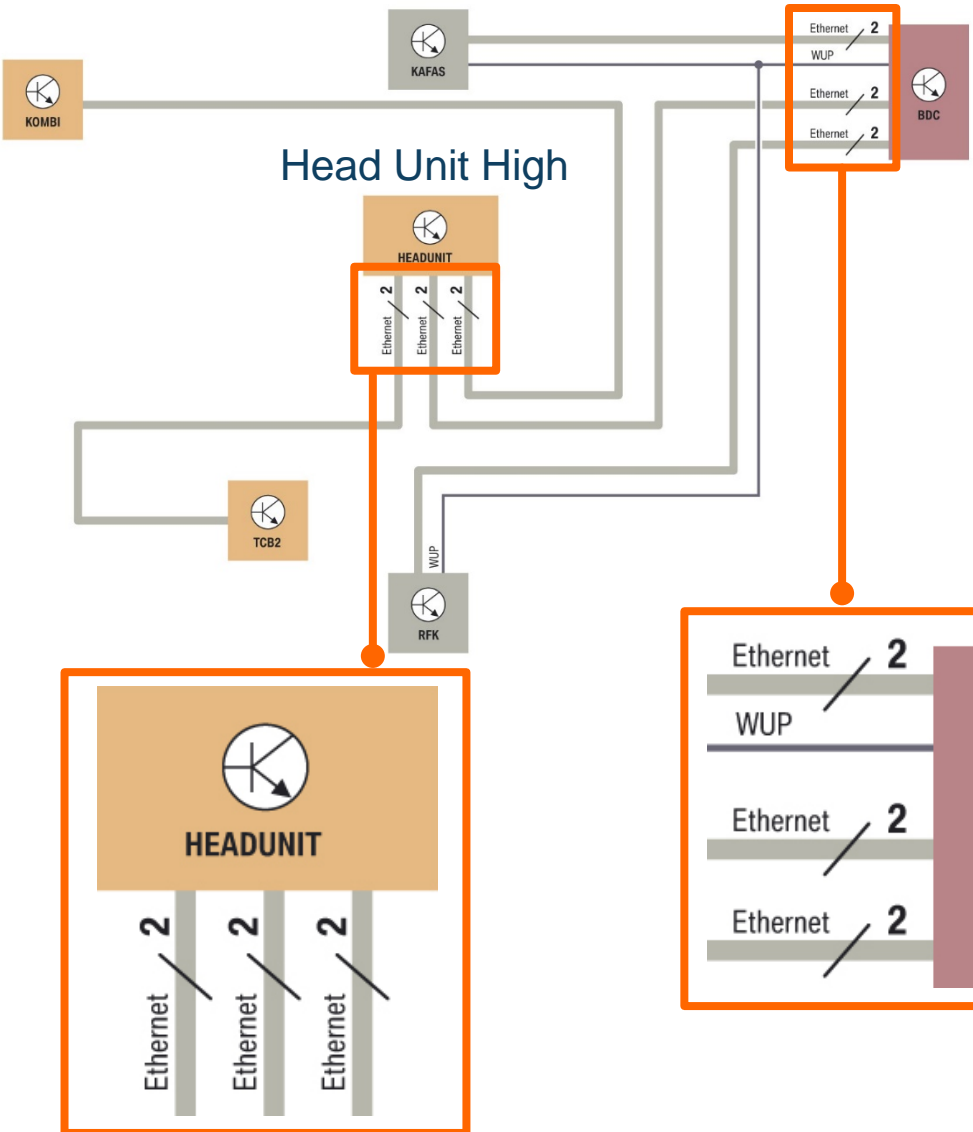
- Data transfer speed: 10 Mbps
- Twisted Pair wiring
- Active point-to-point bus structure
- If data is no longer sent on one of the two lines, there is no communication on this bus



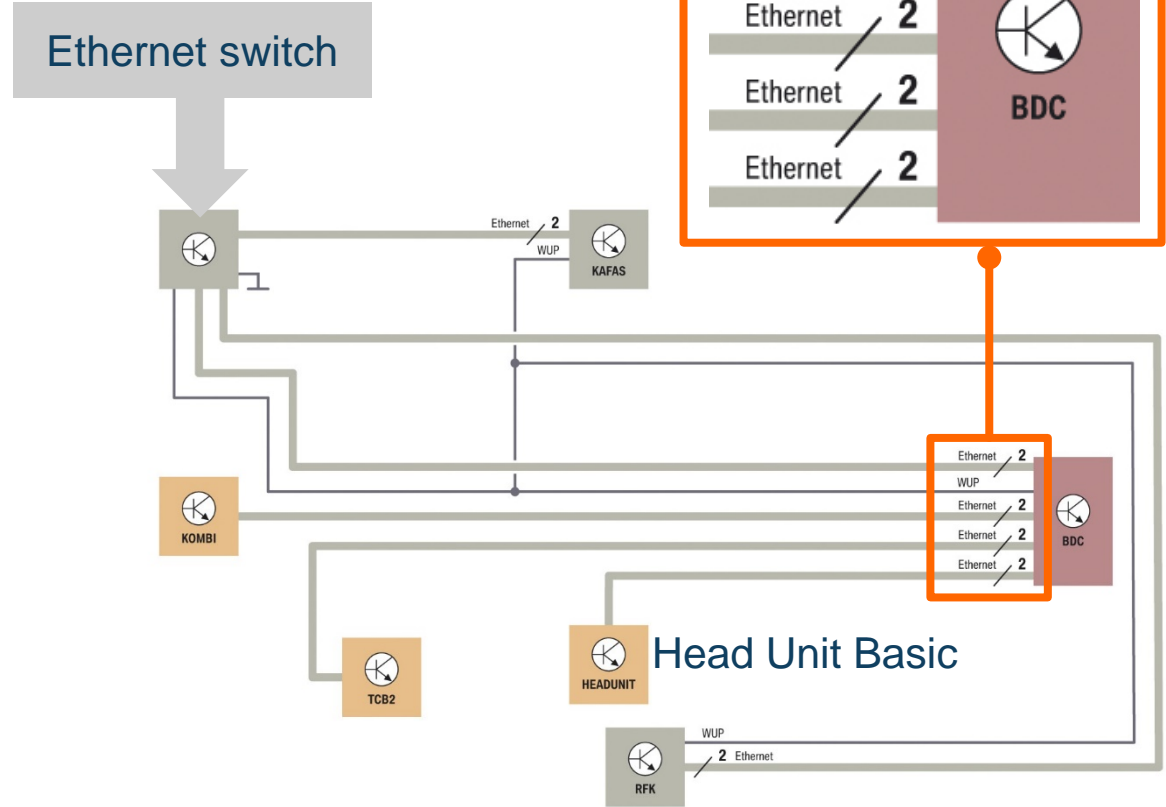
- Data transfer speed: 22.5 Mbps
- Distinctive feature: Ring structure



 **Note:** The MOST network on the Supra uses fiber optic cable instead of copper wire.



- Data transfer speed: 100 Mbps
- Unshielded twisted pair wiring
- Wake-up line for ECUs that are only connected to Ethernet



- Pre-Collision System (PCS) with pedestrian detection
- Lane Departure Warning (LDW) with steering assist (SA)
- Automatic High Beams (AHB)
- Road Sign Assist (RSA)



Only the front camera is used for the standard safety suite

- Full speed Dynamic Radar Cruise Control (DRCC)
- Blind Spot Monitor (BSM)
- Rear Cross Traffic Alert (RCTA)
- Parking sensors with emergency braking function

Vehicles equipped with the optional Driver Assist Package include:

Ultrasonic Sensor



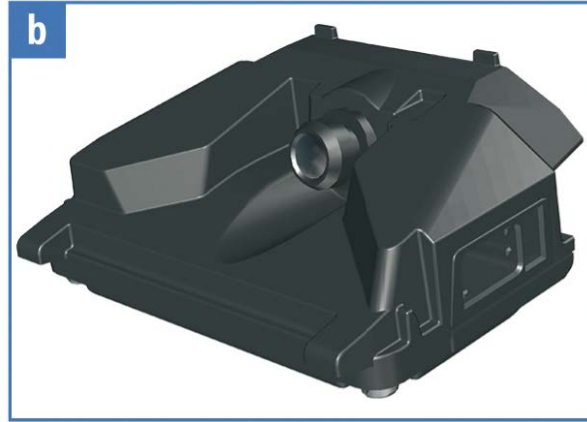
Front Camera



Front Radar



Blind Spot Monitor



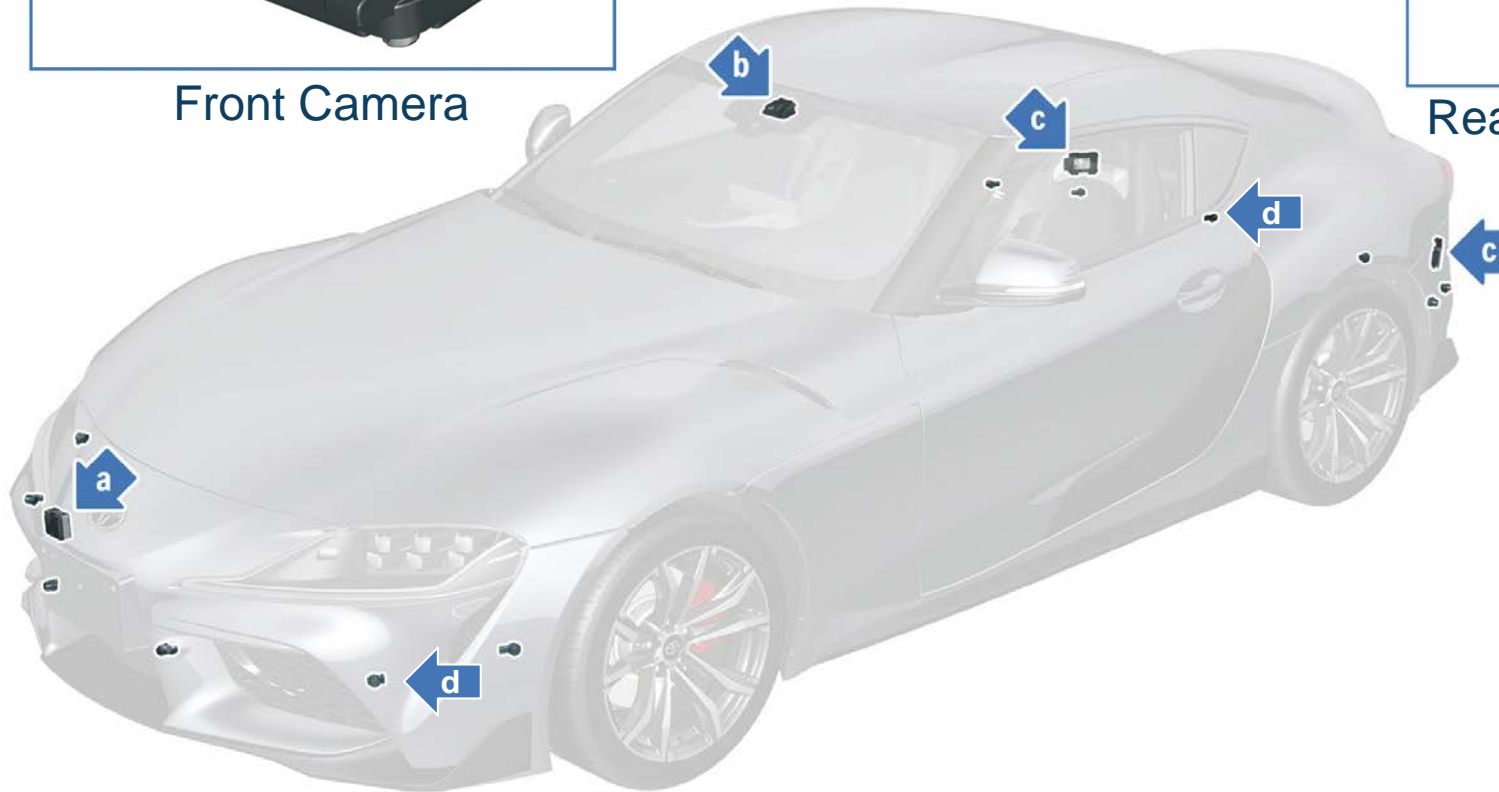
Front Camera



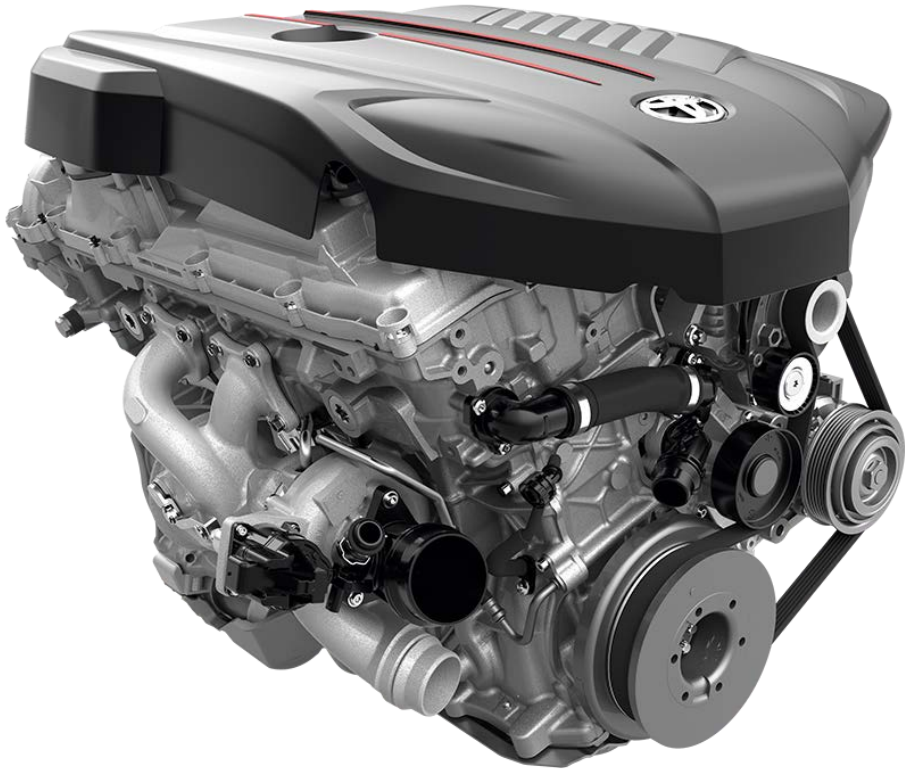
Rear Side Radar Sensor



Front Radar Sensor



Front & Rear Ultrasonic Sensor



B58	
Cylinder/Design	6 cylinders/in-line
Firing order	1-5-3-6-2-4
Displacement	2998 cc (3.0 liter)
Bore/Stroke	85mm x 94.6mm
Compression ratio	11:1
Valves per cylinder	4
Power at engine speed	335 hp @ 5,000-6,000 RPM
Torque at speed	365 lb. ft. @ 1,600-4,500 RPM

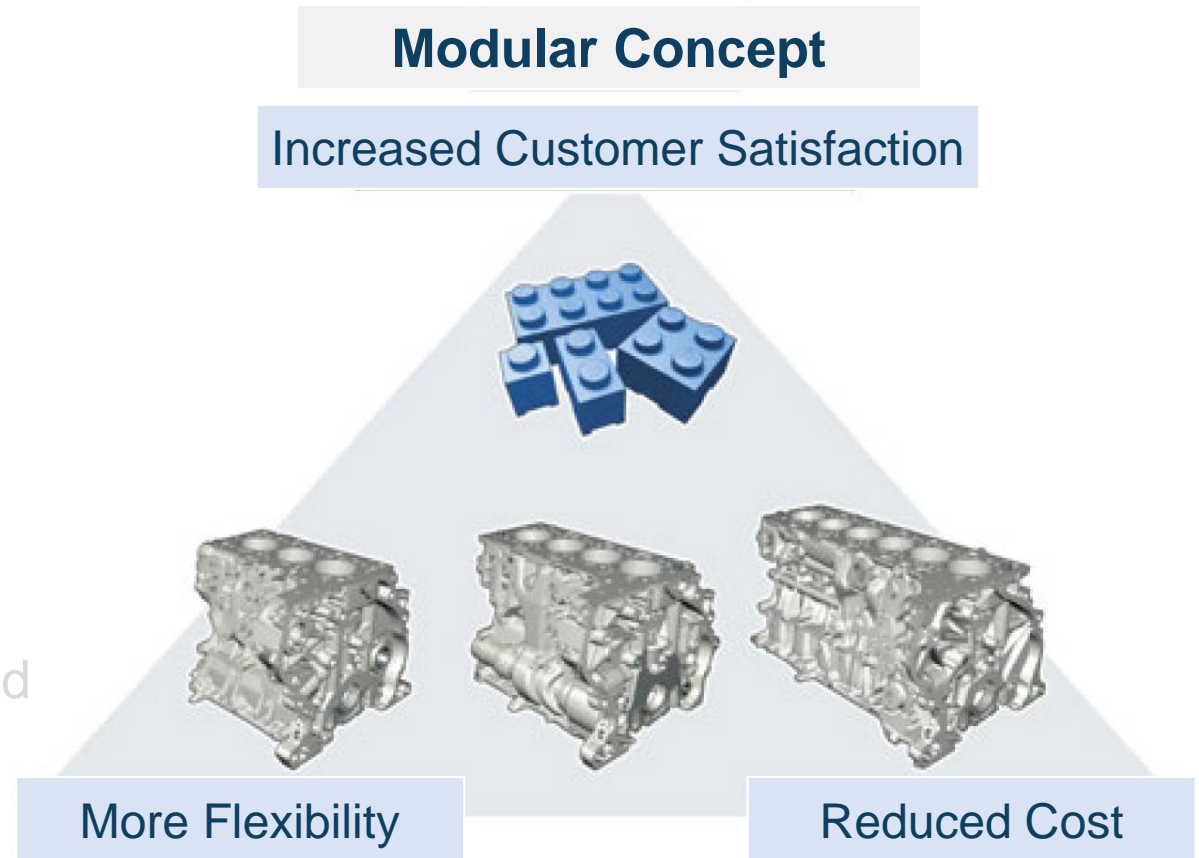
Engine modular concept

TVDI basic technology

- Turbocharging
- VALVETRONIC
- Direct injection

Technical properties

- Heat management module (split cooling)
- Exhaust manifold integrated in cylinder head
- Characteristic map-controlled oil pump
- LDS-coated cylinder barrels



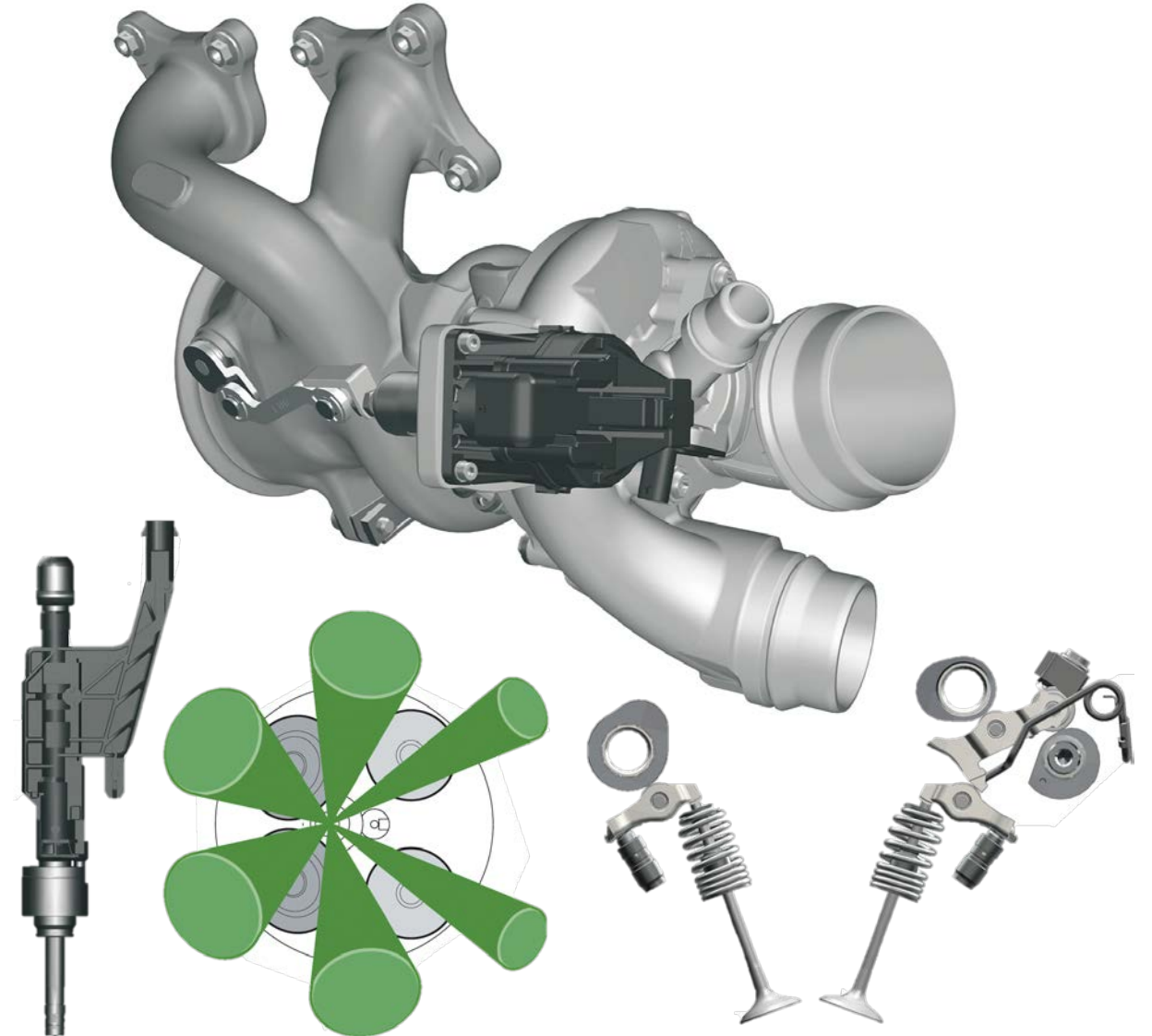
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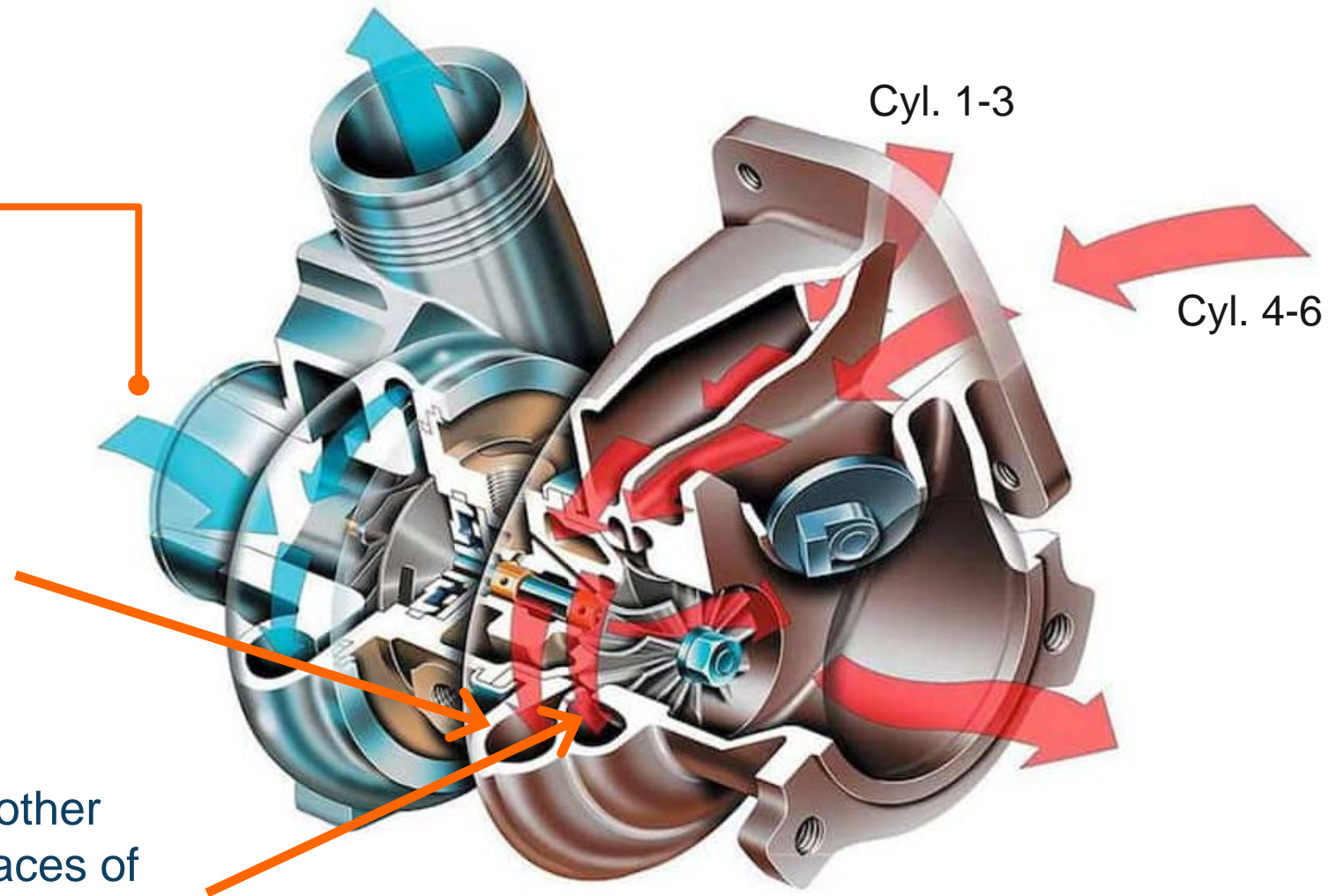
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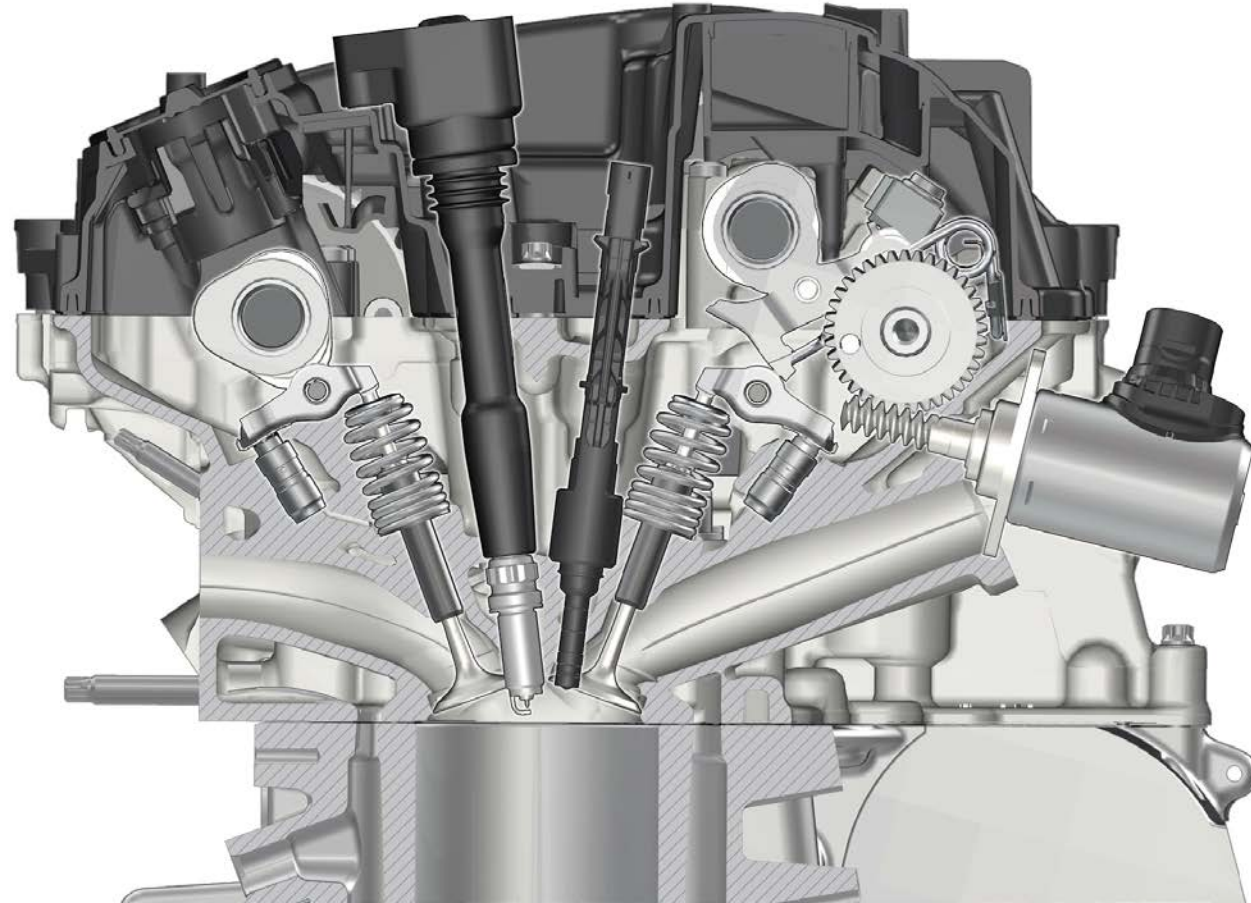
Twin-Scroll technology combines optimal low-end response with excellent top-end power increase.

The larger channel directs one exhaust stream to the outer edge of the turbine blades. – ***This causes the turbocharger to spin faster.***

The smaller channel directs the other exhaust stream to the inner surfaces of the turbine blades. – ***This improves turbocharger response.***



* Not the turbocharger from the actual vehicle



[Click here for Valvetronic animation](#)

Engine modular concept

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