



# Ferrari North America

## Technical Information

Date:	March 2020
Bulletin #:	2660
Campaign #:	
Supersedes:	
Section:	10

**Subject: 2020 Technical Documentation Update (No. 02)**

Please note that as of **February 17, 2020**, the second 2020 update of the Interactive Technical Documentation will be available from the New Modis site.

Subsequently, the same update will be available for the Interactive Technical Documentation contained in the new multimodel version of the Pen-Drive. The application will notify the user that updated new content is available when launched for the first time after the update release. Please note that you must have write access rights for removable USB devices in order to update the Technical Documentation on the Pen-Drive.

For any queries, please use the support service e-mail address:

[info.doc.usb@ferrari.it](mailto:info.doc.usb@ferrari.it)

### **- IMPORTANT -**

**Please read the contents of these updates carefully to help ensure that all vehicle repair procedures are performed correctly to avoid wasted time and help ensure rapid problem resolution.**

**Please note that any repair / replacement work not compliant with the procedures described in the paragraphs listed below will result in rejection of the warranty claim and, as a result, the relative costs incurred will not be reimbursed.**



# Ferrari North America

## Workshop Manual

The paragraphs in the different Workshop Manuals added to/amended by this update are listed as follows.

<b>- F8 Spider:</b>	<b>First release of Workshop Manual</b>
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<b>- 812 GTS:</b>	<b>First release of Workshop Manual</b>
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<b>- Portofino:</b>	<b>B2.03_ Engine ancillary belt tensioner</b>
	Added procedure for REMOVING ENGINE ANCILLARY BELT TENSIONER
	<b>B2.03_ Engine ancillary belt tensioner</b>
	Added procedure for REFITTING ENGINE ANCILLARY BELT TENSIONER
	<b>B2.09_ Engine timing system</b>
	Added procedure for REMOVING ENGINE TIMING SYSTEM
	<b>B2.09_ Engine timing system</b>
	Added procedure for REFITTING ENGINE TIMING SYSTEM
	<b>B2.10_ Lower crankcase shell</b>
	Added procedure for REMOVING LOWER CRANKCASE SHELL
	<b>B2.10_ Lower crankcase shell</b>
	Added procedure for REFITTING LOWER CRANKCASE SHELL



## **B2.11\_ Cylinder heads**

Added procedure for REMOVING CYLINDER HEADS

## **B2.11\_ Cylinder heads**

Added procedure for REFITTING CYLINDER HEADS

## **B2.12\_ Crankshaft**

Added procedure for REMOVING CRANKSHAFT

## **B2.12\_ Crankshaft**

Added procedure for REFITTING CRANKSHAFT

## **B2.13\_ Pistons-connecting rods**

Added procedure for REMOVING PISTONS-CONNECTING RODS

## **B2.13\_ Pistons-connecting rods**

Added procedure for REFITTING PISTONS-CONNECTING RODS

## **B3.09\_ Oxygen sensors (lambda probes)**

Added procedure for REMOVING OXYGEN SENSORS

## **B3.09\_ Oxygen sensors (lambda probes)**

Added procedure for REFITTING OXYGEN SENSORS

## **B4.07 \_ Fuel pumps**

Added procedure for REMOVING FUEL PUMPS

## **B4.07 \_ Fuel pumps**

Added procedure for REFITTING FUEL PUMPS



## **B7.02 \_ Engine air intake system filter box**

Added procedure for REMOVING ENGINE AIR INTAKE SYSTEM FILTER BOX

## **B7.02 \_ Engine air intake system filter box**

Added procedure for REFITTING ENGINE AIR INTAKE SYSTEM FILTER BOX

## **B7.04 \_ Engine air intake manifolds**

Added procedure for REMOVING ENGINE AIR INTAKE MANIFOLDS

## **B7.04 \_ Engine air intake manifolds**

Added procedure for REFITTING ENGINE AIR INTAKE MANIFOLDS

## **B11.02 \_ Exhaust manifolds**

Added procedure for REMOVING EXHAUST MANIFOLDS

## **B11.02 \_ Exhaust manifolds**

Added procedure for REFITTING EXHAUST MANIFOLDS

## **C4.03 \_ Transmission housing**

Added procedure for REMOVING TRANSMISSION HOUSING

## **C4.03 \_ Transmission housing**

Added procedure for REFITTING TRANSMISSION HOUSING

## **D5.02\_ Complete suspension assemblies**

Added procedure for REMOVING COMPLETE SUSPENSION ASSEMBLIES



## **D5.02\_ Complete suspension assemblies**

Added procedure for REFITTING COMPLETE SUSPENSION ASSEMBLIES

## **D5.03\_ Arms**

Added procedure for REMOVING ARMS

## **D5.03\_ Arms**

Added procedure for REFITTING ARMS

## **D6.04\_ Steering angle ECU (NAS)**

Added procedure for REMOVING STEERING ANGLE SENSOR (NAS)

## **D6.04\_ Steering angle ECU (NAS)**

Added procedure for REFITTING STEERING ANGLE SENSOR (NAS)

## **D6.09 \_ Steering column**

Added procedure for REMOVING STEERING COLUMN

## **D6.09 \_ Steering column**

Added procedure for REFITTING STEERING COLUMN

## **E2.02\_ Subframes**

Added procedure for REMOVING FRONT SUBFRAME

## **E2.02\_ Subframes**

Added procedure for REFITTING FRONT SUBFRAME

## **E3.06\_ External trim**

Added procedure for REMOVING LATERAL EXTERNAL TRIM



## **E3.06\_ External trim**

Added procedure for REFITTING LATERAL EXTERNAL TRIM

## **E3.07\_ Lids**

Added procedure for REMOVING FRONT LID LOCK

## **E3.07\_ Lids**

Added procedure for REFITTING FRONT LID LOCK

## **E3.08 \_ Doors**

Added procedure for REMOVING DOORS

## **E3.08 \_ Doors**

Added procedure for REFITTING DOORS

## **F10.03 \_ Audio system speakers**

Added procedure for REMOVING AUDIO SYSTEM SPEAKERS

## **F10.03 \_ Audio system speakers**

Added procedure for REFITTING AUDIO SYSTEM SPEAKERS

## **F12.04 \_ Suspension control system acceleration sensors**

Added procedure for REMOVING SUSPENSION CONTROL SYSTEM ACCELERATION SENSORS

## **F12.04 \_ Suspension control system acceleration sensors**

Added procedure for REFITTING SUSPENSION CONTROL SYSTEM ACCELERATION SENSORS

## **F14.03 \_ Parking / surround view cameras**

Added procedure for REMOVING REAR PARKING CAMERA



## **F14.03 \_ Parking / surround view cameras**

Added procedure for REFITTING REAR PARKING CAMERA

## **F2.04\_ Controls on steering wheel**

Added procedure for REMOVING CONTROLS ON STEERING WHEEL

## **F2.04\_ Controls on steering wheel**

Added procedure for REFITTING CONTROLS ON STEERING WHEEL

## **F2.09\_ External rear view mirror controls**

Added procedure for REMOVING EXTERNAL REAR VIEW MIRROR CONTROLS

## **F2.09\_ External rear view mirror controls**

Added procedure for REFITTING EXTERNAL REAR VIEW MIRROR CONTROLS

## **F2.11\_ DCT gearbox controls**

Added procedure for REMOVING DCT GEARBOX CONTROLS

## **F2.11\_ DCT gearbox controls**

Added procedure for REMOVING DCT GEARBOX CONTROLS

## **F2.13\_ Lid controls**

Added procedure for REMOVING LID CONTROLS

## **F2.13\_ Lid controls**

Added procedure for REFITTING LID CONTROLS

## **F20.02\_ ADAS system radar unit**

Added procedure for REMOVING FRONT ADAS SYSTEM RADAR UNIT



## **F20.02\_ ADAS system radar unit**

Added procedure for RADAR FRONT ADAS SYSTEM RADAR UNIT

## **F20.02\_ ADAS system radar unit**

Added procedure for REMOVING REAR ADAS SYSTEM RADAR UNIT

## **F20.02\_ ADAS system radar unit**

Added procedure for REFITTING REAR ADAS SYSTEM RADAR UNIT

## **F3.04 \_ Engine ancillaries cable**

Added procedure for REMOVING ANCILLARIES CABLE

## **F3.04 \_ Engine ancillaries cable**

Added procedure for REFITTING ANCILLARIES CABLE

## **F6.08\_ AC system condenser**

Added procedure for REMOVING AC SYSTEM CONDENSER

## **F6.08\_ AC system condenser**

Added procedure for REFITTING AC SYSTEM CONDENSER

## **F6.11 \_ AC system air filter**

Added procedure for REMOVING AC SYSTEM AIR FILTER

## **F6.11 \_ AC system air filter**

Added procedure for REFITTING AC SYSTEM AIR FILTER

## **F7.02 \_ Anti-theft system ECU**

Added procedure for REMOVING ANTI-THEFT SYSTEM ECU





## **F7.02 \_ Anti-theft system ECU**

Added procedure for REFITTING ANTI-THEFT SYSTEM ECU

## **F7.05 \_ Anti-theft system antennas**

Added procedure for REMOVING GPS ANTENNA

## **F7.05 \_ Anti-theft system antennas**

Added procedure for REFITTING GPS ANTENNA

## **F7.05 \_ Anti-theft system antennas**

Added procedure for REMOVING GSM ANTENNA

## **F7.05 \_ Anti-theft system antennas**

Added procedure for FITTING GSM ANTENNA

## **F9.06\_ Infotainment system USB ports**

Added procedure for REMOVING INFOTAINMENT SYSTEM USB PORTS

## **F9.06\_ Infotainment system USB ports**

Added procedure for REFITTING INFOTAINMENT SYSTEM USB PORTS

## **F9.09\_ Infotainment system USB splitter**

Added procedure for REMOVING INFOTAINMENT SYSTEM USB SPLITTER

## **F9.09\_ Infotainment system USB splitter**

Added procedure for REFITTING INFOTAINMENT SYSTEM USB SPLITTER



- 488 Pista /488  
Pista Spider:

## **B2.02\_Engine ancillary belt**

Added procedure for REMOVING ENGINE ANCILLARY BELT

## **B2.02\_Engine ancillary belt**

Added procedure for REFITTING ENGINE ANCILLARY BELT

## **B2.03\_Engine ancillary belt tensioner**

Added procedure for REMOVING ENGINE ANCILLARY BELT TENSIONER

## **B2.03\_Engine ancillary belt tensioner**

Added procedure for REFITTING ENGINE ANCILLARY BELT TENSIONER

## **B2.04\_Torsional damper**

Added procedure for REMOVING TORSIONAL DAMPER

## **B2.04\_Torsional damper**

Added procedure for REFITTING TORSIONAL DAMPER

## **B2.07\_Engine mounting bushes**

Added procedure for REMOVING ENGINE MOUNTING BUSHES

## **B2.07\_Engine mounting bushes**

Added procedure for REFITTING ENGINE MOUNTING BUSHES

## **B2.08\_Engine covers**

Added procedure for REMOVING ENGINE COVERS

## **B2.08\_Engine covers**

Added procedure for REFITTING ENGINE COVERS



## **B2.09\_ Engine timing system**

Added procedure for REMOVING ENGINE TIMING SYSTEM

## **B2.09\_ Engine timing system**

Added procedure for REFITTING ENGINE TIMING SYSTEM

## **B2.10\_ Lower crankcase shell**

Added procedure for REMOVING LOWER CRANKCASE SHELL

## **B2.10\_ Lower crankcase shell**

Added procedure for REFITTING LOWER CRANKCASE SHELL

## **B2.11\_ Cylinder heads**

Added procedure for REMOVING CYLINDER HEADS

## **B2.11\_ Cylinder heads**

Added procedure for REFITTING CYLINDER HEADS

## **B2.12\_ Crankshaft**

Added procedure for REMOVING CRANKSHAFT

## **B2.12\_ Crankshaft**

Added procedure for REFITTING CRANKSHAFT

## **B2.13\_ Pistons-connecting rods**

Added procedure for REMOVING PISTONS-CONNECTING RODS

## **B2.13\_ Pistons-connecting rods**

Added procedure for REFITTING PISTONS-CONNECTING RODS



## **B3.09\_ Oxygen sensors (lambda probes)**

Added procedure for REMOVING OXYGEN SENSORS

## **B3.09\_ Oxygen sensors (lambda probes)**

Added procedure for REFITTING OXYGEN SENSORS

## **B5.02\_Fuel vapor recovery system filter**

Added procedure for REMOVING FUEL VAPOUR RECOVERY SYSTEM FILTER

## **B5.02\_Fuel vapor recovery system filter**

Added procedure for REFITTING FUEL VAPOUR RECOVERY SYSTEM FILTER

## **B5.04\_Fuel vapor recovery system flush valves**

Added procedure for REMOVING FUEL VAPOUR RECOVERY SYSTEM FLUSH VALVES

## **B5.04\_Fuel vapor recovery system flush valves**

Added procedure for REFITTING FUEL VAPOUR RECOVERY SYSTEM FLUSH VALVES

## **B7.02 \_ Engine air intake system filter box**

Added procedure for REMOVING ENGINE AIR INTAKE SYSTEM FILTER BOX

## **B7.02 \_ Engine air intake system filter box**

Added procedure for REFITTING ENGINE AIR INTAKE SYSTEM FILTER BOX



## **B8.04 \_ Engine lubrication system filter**

Added procedure for REMOVING ENGINE LUBRICATION SYSTEM FILTER

## **B8.04 \_ Engine lubrication system filter**

Added procedure for REFITTING ENGINE LUBRICATION SYSTEM FILTER

## **B8.06 \_ Engine lubrication system radiator/heat exchanger**

Added procedure for REMOVING ENGINE LUBRICATION SYSTEM RADIATOR/HEAT EXCHANGER

## **B8.06 \_ Engine lubrication system radiator/heat exchanger**

Added procedure for REFITTING ENGINE LUBRICATION SYSTEM RADIATOR/HEAT EXCHANGER

## **B8.07 \_ Engine lubrication system pressure control solenoid valves**

Added procedure for REMOVING ENGINE LUBRICATION SYSTEM PRESSURE CONTROL SOLENOID VALVES

## **B8.07 \_ Engine lubrication system pressure control solenoid valves**

Added procedure for REFITTING ENGINE LUBRICATION SYSTEM PRESSURE CONTROL SOLENOID VALVES

## **B10.04 \_ Engine cooling system pump**

Added procedure for REMOVING ENGINE COOLING SYSTEM PUMP

## **B10.04 \_ Engine cooling system pump**

Added procedure for REFITTING ENGINE COOLING SYSTEM PUMP



## **B10.05 \_ Engine cooling system pressure switch/thermostat**

Added procedure for REMOVING ENGINE COOLING SYSTEM PRESSURE SWITCH/THERMOSTAT

## **B10.05 \_ Engine cooling system pressure switch/thermostat**

Added procedure for REFITTING ENGINE COOLING SYSTEM PRESSURE SWITCH/THERMOSTAT

## **B10.06 \_ Engine cooling system radiator**

Added procedure for REMOVING ENGINE COOLING SYSTEM RADIATOR

## **B10.06 \_ Engine cooling system radiator**

Added procedure for REFITTING ENGINE COOLING SYSTEM RADIATOR

## **B11.03 \_ Exhaust system catalytic converters**

Added procedure for REMOVING EXHAUST SYSTEM CATALYTIC CONVERTERS

## **B11.03 \_ Exhaust system catalytic converters**

Added procedure for REFITTING EXHAUST SYSTEM CATALYTIC CONVERTERS

## **B11.05 \_ Exhaust system silencers**

Added procedure for REMOVING EXHAUST SYSTEM SILENCERS

## **B11.05 \_ Exhaust system silencers**

Added procedure for REFITTING EXHAUST SYSTEM SILENCERS



## **B12.06\_Secondary air system pressure sensor**

Added procedure for REMOVING SECONDARY AIR SYSTEM PRESSURE SENSOR

## **B12.06\_Secondary air system pressure sensor**

Added procedure for REFITTING SECONDARY AIR SYSTEM PRESSURE SENSOR

## **B13.02 \_ Turbochargers**

Added procedure for REMOVING TURBOCHARGERS

## **B13.02 \_ Turbochargers**

Added procedure for REFITTING TURBOCHARGERS

## **B13.03 \_ Turbocharging system intercoolers**

Added procedure for REMOVING TURBOCHARGING SYSTEM INTERCOOLERS

## **B13.03 \_ Turbocharging system intercoolers**

Added procedure for REFITTING TURBOCHARGING SYSTEM INTERCOOLERS

## **B13.04 \_ Turbocharging system vacuum accumulator tank**

Added procedure for REMOVING TURBOCHARGING SYSTEM VACUUM ACCUMULATOR TANK

## **B13.04 \_ Turbocharging system vacuum accumulator tank**

Added procedure for REFITTING TURBOCHARGING SYSTEM VACUUM ACCUMULATOR TANK

## **B13.05 \_ Turbocharging system valves**

Added procedure for REMOVING TURBOCHARGING SYSTEM VALVES



## **B13.05 \_ Turbocharging system valves**

Added procedure for REFITTING TURBOCHARGING SYSTEM VALVES

## **C2.02\_DCT gearbox gear lubrication oil (GL)**

Added procedure for CHECKING DCT GEARBOX GEAR LUBRICATION OIL (GL)

## **C2.02\_DCT gearbox gear lubrication oil (GL)**

Added procedure for FILLING DCT GEARBOX GEAR LUBRICATION OIL (GL)

## **C2.02\_DCT gearbox gear lubrication oil (GL)**

Added procedure for DRAINING DCT GEARBOX GEAR LUBRICATION OIL (GL)

## **C2.03\_DCT gearbox hydraulic actuator oil (ATF)**

Added procedure for CHECKING DCT GEARBOX HYDRAULIC ACTUATOR OIL (ATF)

## **C2.03\_DCT gearbox hydraulic actuator oil (ATF)**

Added procedure for DRAINING DCT GEARBOX HYDRAULIC ACTUATOR OIL (ATF)

## **C2.03\_DCT gearbox hydraulic actuator oil (ATF)**

Added procedure for FILLING DCT GEARBOX HYDRAULIC ACTUATOR OIL (ATF)

## **C2.05\_ Complete DCT gearbox**

Added procedure for REMOVING COMPLETE DCT GEARBOX

## **C2.05\_ Complete DCT gearbox**

Added procedure for REFITTING COMPLETE DCT GEARBOX





## **D3.08\_ESC yaw sensor**

Added procedure for REMOVING ESC YAW SENSOR

## **D3.08\_ESC yaw sensor**

Added procedure for REFITTING ESC YAW SENSOR

## **D4.03 \_ Parking brake pads**

Added procedure for REMOVING PARKING BRAKE PADS

## **D4.03 \_ Parking brake pads**

Added procedure for REFITTING PARKING BRAKE PADS

## **D5.03\_ Arms**

Added procedure for REMOVING ARMS

## **D5.03\_ Arms**

Added procedure for REFITTING ARMS

## **D5.06\_ Stabilizer bars**

Added procedure for REMOVING STABILIZER BARS

## **D5.06\_ Stabilizer bars**

Added procedure for REFITTING STABILIZER BARS

## **D6.04\_ Steering angle ECU (NAS)**

Added procedure for REMOVING STEERING ANGLE SENSOR

## **D6.04\_ Steering angle ECU (NAS)**

Added procedure for REFITTING STEERING ANGLE SENSOR



## **E2.03 \_ Cross members**

Added procedure for REMOVING CROSS MEMBERS

## **E2.03 \_ Cross members**

Added procedure for REFITTING CROSS MEMBERS

## **E2.04\_Diagonal braces**

Added procedure for REMOVING DIAGONAL BRACES

## **E2.04\_Diagonal braces**

Added procedure for REFITTING DIAGONAL BRACES

## **E3.07\_ Lids**

Added procedure for REMOVING LIDS

## **E3.07\_ Lids**

Added procedure for REFITTING LIDS

## **E3.10\_ Screens and windows**

Added procedure for REMOVING SCREENS AND WINDOWS

## **E3.10\_ Screens and windows**

Added procedure for REFITTING SCREENS AND WINDOWS

## **E4.08 \_ Seats**

Added procedure for REMOVING SEATS

## **E4.08 \_ Seats**

Added procedure for REFITTING SEATS



## **F3.04 \_ Engine ancillaries cable**

Added procedure for REMOVING ANCILLARIES CABLE

## **F3.04 \_ Engine ancillaries cable**

Added procedure for REFITTING ANCILLARIES CABLE

## **F4.02\_ External lights**

Added procedure for REMOVING EXTERNAL LIGHTS

## **F4.02\_ External lights**

Added procedure for REFITTING EXTERNAL LIGHTS

## **F5.04\_ Windscreen wiper/headlight washer system electric pumps**

Added procedure for REMOVING WINDSCREEN WIPER/HEADLIGHT WASHER SYSTEM ELECTRIC PUMPS

## **F5.04\_ Windscreen wiper/headlight washer system electric pumps**

Added procedure for REFITTING WINDSCREEN WIPER/HEADLIGHT WASHER SYSTEM ELECTRIC PUMPS

## **F5.07\_ Wiper blades**

Added procedure for REMOVING WIPER BLADES

## **F5.07\_ Wiper blades**

Added procedure for REFITTING WIPER BLADES

## **F6.06 \_ AC system expansion valve**

Added procedure for REMOVING AC SYSTEM EXPANSION VALVE

## **F6.06 \_ AC system expansion valve**

Added procedure for REFITTING AC SYSTEM EXPANSION VALVE



## **F7.03 \_ Anti-theft system sensors**

Added procedure for REMOVING ANTI-THEFT SYSTEM SENSORS

## **F7.03 \_ Anti-theft system sensors**

Added procedure for REFITTING ANTI-THEFT SYSTEM SENSORS

## **F7.05 \_ Anti-theft system antennas**

Added procedure for REMOVING ANTI-THEFT SYSTEM ANTENNAS

## **F7.05 \_ Anti-theft system antennas**

Added procedure for REFITTING ANTI-THEFT SYSTEM ANTENNAS

## **F8.05 \_ Seat belts**

Added procedure for REMOVING SEAT BELTS

## **F8.05 \_ Seat belts**

Added procedure for REFITTING SEAT BELTS

## **F9.03\_Infotainment system Can Box**

Added procedure for REMOVING INFOTAINMENT SYSTEM CAN BOX

## **F9.03\_Infotainment system Can Box**

Added procedure for REFITTING INFOTAINMENT SYSTEM CAN BOX

## **F9.04\_ Infotainment system antennas**

Added procedure for REMOVING INFOTAINMENT SYSTEM ANTENNAS

## **F9.04\_ Infotainment system antennas**

Added procedure for REFITTING INFOTAINMENT SYSTEM ANTENNAS



## **F9.06\_ Infotainment system USB ports**

Added procedure for REMOVING INFOTAINMENT SYSTEM USB PORTS

## **F9.06\_ Infotainment system USB ports**

Added procedure for REFITTING INFOTAINMENT SYSTEM USB PORTS

## **F10.03 \_ Audio system speakers**

Added procedure for REMOVING AUDIO SYSTEM SPEAKERS

## **F10.03 \_ Audio system speakers**

Added procedure for REFITTING AUDIO SYSTEM SPEAKERS

## **F14.02\_ Parking camera system ECU**

Added procedure for REMOVING PARKING CAMERA SYSTEM ECU

## **F14.02\_ Parking camera system ECU**

Added procedure for REFITTING PARKING CAMERA SYSTEM ECU

## **F14.03 \_ Parking cameras**

Added procedure for REMOVING PARKING CAMERAS

## **F14.03 \_ Parking cameras**

Added procedure for REFITTING PARKING CAMERAS

## **F16.03\_ Active aerodynamics system actuators**

Added procedure for REMOVING ACTIVE AERODYNAMICS SYSTEM ACTUATORS

## **F16.03\_ Active aerodynamics system actuators**

Added procedure for REFITTING ACTIVE AERODYNAMICS SYSTEM ACTUATORS



## **F16.04\_ Active aerodynamics system flaps**

Added procedure for REMOVING ACTIVE AERODYNAMICS SYSTEM FLAPS

## **F16.04\_ Active aerodynamics system flaps**

Added procedure for REFITTING ACTIVE AERODYNAMICS SYSTEM FLAPS

## **F17.03\_ Telemetry system cameras**

Added procedure for REMOVING TELEMETRY SYSTEM CAMERAS

## **F17.03\_ Telemetry system cameras**

Added procedure for REFITTING TELEMETRY SYSTEM CAMERAS

## **F19.03\_ Passive Start system antennas**

Added procedure for REMOVING PASSIVE START SYSTEM ANTENNAS

## **F19.03\_ Passive Start system antennas**

Added procedure for REFITTING PASSIVE START SYSTEM ANTENNAS

## **B2.02\_Engine ancillary belt**

Added procedure for CHECKING ENGINE ANCILLARY BELT

## **B2.02\_Engine ancillary belt**

**- F8 Tributo:**

Added procedure for REMOVING ENGINE ANCILLARY BELT

## **B2.02\_Engine ancillary belt**

Added procedure for REFITTING ENGINE ANCILLARY BELT

## **B2.03\_Engine ancillary belt tensioner**



Added procedure for REMOVING ANCILLARY BELT TENSIONER

### **B2.03\_Engine ancillary belt tensioner**

Added procedure for REFITTING ANCILLARY BELT TENSIONER

### **B2.04\_Torsional damper**

Added procedure for REMOVING TORSIONAL DAMPER

### **B2.04\_Torsional damper**

Added procedure for REFITTING TORSIONAL DAMPER

### **B2.05\_Flywheel**

Added procedure for REMOVING FLYWHEEL

### **B2.05\_Flywheel**

Added procedure for REFITTING FLYWHEEL

### **B3.08 \_ Timing sensors**

Added procedure for REMOVING TIMING SENSORS

### **B3.08 \_ Timing sensors**

Added procedure for REFITTING TIMING SENSORS

### **B3.09\_ Oxygen sensors (lambda probes)**

Added procedure for REMOVING OXYGEN SENSORS

### **B3.09\_ Oxygen sensors (lambda probes)**

Added procedure for REFITTING OXYGEN SENSORS

### **B6.03\_ Injection system pumps**

Added procedure for REMOVING INJECTION SYSTEM PUMPS



## **B6.03\_ Injection system pumps**

Added procedure for REFITTING INJECTION SYSTEM PUMPS

## **B6.04\_ Injection system injector pipes**

Added procedure for REMOVING INJECTION SYSTEM INJECTOR PIPES

## **B6.04\_ Injection system injector pipes**

Added procedure for REFITTING INJECTION SYSTEM INJECTOR PIPES

## **B7.02 \_ Engine air intake system filter box**

Added procedure for REMOVING ENGINE AIR INTAKE SYSTEM FILTER BOX

## **B7.02 \_ Engine air intake system filter box**

Added procedure for REFITTING ENGINE AIR INTAKE SYSTEM FILTER BOX

## **B7.03 \_ Engine air intake system filters**

Added procedure for REMOVING ENGINE AIR INTAKE SYSTEM FILTERS

## **B7.03 \_ Engine air intake system filters**

Added procedure for REFITTING ENGINE AIR INTAKE SYSTEM FILTERS

## **B7.04 \_ Engine air intake manifolds**

Added procedure for REMOVING ENGINE AIR INTAKE MANIFOLDS

## **B7.04 \_ Engine air intake manifolds**

Added procedure for REFITTING ENGINE AIR INTAKE MANIFOLDS





## **B8.09 \_ Engine lubrication system temperature sensors**

Added procedure for REMOVING ENGINE LUBRICATION SYSTEM TEMPERATURE SENSORS

## **B8.09 \_ Engine lubrication system temperature sensors**

Added procedure for REFITTING ENGINE LUBRICATION SYSTEM TEMPERATURE SENSORS

## **B10.04 \_ Engine cooling system pump**

Added procedure for REMOVING ENGINE COOLING SYSTEM PUMP

## **B10.04 \_ Engine cooling system pump**

Added procedure for REFITTING ENGINE COOLING SYSTEM PUMP

## **B12.02\_Secondary air system pump**

Added procedure for REMOVING SECONDARY AIR SYSTEM PUMP

## **B12.02\_Secondary air system pump**

Added procedure for REFITTING SECONDARY AIR SYSTEM PUMP

## **B13.08 \_ Turbocharging system pressure and temperature sensors**

Added procedure for REMOVING TURBOCHARGING SYSTEM PRESSURE AND TEMPERATURE SENSORS

## **B13.08 \_ Turbocharging system pressure and temperature sensors**

Added procedure for REFITTING TURBOCHARGING SYSTEM PRESSURE AND TEMPERATURE SENSORS

## **D3.09\_ Brake calipers**

Added procedure for REMOVING BRAKE CALLIPERS



## Ferrari North America

### **D3.09\_ Brake calipers**

Added procedure for REFITTING BRAKE CALIPERS

### **Spare Parts Catalog**

This update includes all changes to the Spare Parts Catalog concerning the models included in the Technical Documentation, up to **January 13, 2020**.

The spare parts catalogs have been updated for the following vehicles:

<b>- F8 Spider:</b>	<b>First release of Spare Parts Catalog</b>
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<b>- 812 GTS:</b>	<b>First release of Spare Parts Catalog</b>
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<b>- F430:</b>	<b>Spare Parts Catalog updated</b>
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<b>- F430 Spider:</b>	<b>Spare Parts Catalog updated</b>
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<b>- Scuderia Spider 16M:</b>	<b>Spare Parts Catalog updated</b>
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<b>- 612 Scaglietti:</b>	<b>Spare Parts Catalog updated</b>
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## Ferrari North America

**- 612 Sessanta: Spare Parts Catalog updated**

**- 599 GTB Fiorano: Spare Parts Catalog updated**

**- 488 Pista: Spare Parts Catalog updated**

**- 488 Pista Spider: Spare Parts Catalog updated**

**- 458 Italia: Spare Parts Catalog updated**

**- 458 Spider: Spare Parts Catalog updated**

**- 458 Speciale: Spare Parts Catalog updated**

**- 458 Speciale A: Spare Parts Catalog updated**

**- 599 GTO: Spare Parts Catalog updated**



# Ferrari North America

**- SA APERTA: Spare Parts Catalog updated**

**- 488 GTB: Spare Parts Catalog updated**

**- 488 Spider: Spare Parts Catalog updated**

**- 488 Challenge: Spare Parts Catalog updated**

**- 812 Superfast: Spare Parts Catalog updated**

**- GTC4Lusso T: Spare Parts Catalog updated**

**- GTC4Lusso: Spare Parts Catalog updated**

**- California T: Spare Parts Catalog updated**

**- California: Spare Parts Catalog updated**



## Ferrari North America

**- LaFerrari: Spare Parts Catalog updated**

**- LaFerrari Aperta: Spare Parts Catalog updated**

**- FF: Spare Parts Catalog updated**

**- F12berlinetta: Spare Parts Catalog updated**

**- F12 tdf: Spare Parts Catalog updated**

**- F8 Tributo: Spare Parts Catalog updated**

**- Portofino: Spare Parts Catalog updated**

**- Monza SP1: Spare Parts Catalog updated**

**- Monza SP2: Spare Parts Catalog updated**



# Ferrari North America

## S.T. Schedule

The S.T. Schedule has been updated for the following vehicles:

<b>- F8 Spider:</b>	<b>First release of S.T. Schedule</b>
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<b>- 812 GTS:</b>	<b>First release of S.T. Schedule</b>
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<b>- F430:</b>	<b>S.T. Schedule updated</b>
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<b>- F430 Spider:</b>	<b>S.T. Schedule updated</b>
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<b>- 430 Scuderia:</b>	<b>S.T. Schedule updated</b>
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<b>- Scuderia Spider 16M:</b>	<b>S.T. Schedule updated</b>
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<b>- F12 tdf:</b>	<b>S.T. Schedule updated</b>
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<b>- F8 Tributo:</b>	<b>S.T. Schedule updated</b>
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# Ferrari North America

## Electrical diagrams

The electrical wiring diagrams have been updated for the following vehicles:

<b>- F8 Spider:</b>	<b>First release of electrical diagrams</b>
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<b>- 812 GTS:</b>	<b>First release of electrical diagrams</b>
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Thank you for your co-operation.