



Ferrari North America

Technical Information

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Subject: 2020 Technical Documentation Update #3

Please note that as of **April 8, 2020**, the third 2020 update of the Interactive Technical Documentation will be available from the 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

- IMPORTANT -

Please read the contents of these updates carefully to 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.



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Workshop Manual

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

812 GTS	A3.01_Predelivery Inspection Form (PDI)	Predelivery inspection form
	B3.01_Ignition system layout	Ignition system layout
	B4.01_Fuel system layout	Fuel system layout
	B6.01_Injection system layout	Injection system layout
	B7.01_Engine air induction system layout	Engine air induction system layout
	B7.03_Engine air intake system filters	Removing the engine air intake system filters
		Refitting the engine air intake system filters
	B8.01_Engine lubrication system layout	Engine lubrication system layout
	B9.01_Engine oil vapour recovery system layout	Engine oil vapour recovery system layout
	B10.01_Engine cooling system layout	Engine cooling system layout
	B11.01_Exhaust system layout	Exhaust system layout
	B12.01_Secondary air system layout	Secondary air system layout
	C2.01_DCT gearbox hydraulic system layout	DCT gearbox hydraulic system layout
	D6.01_Steering system layout	Steering system layout
	E2.01_Chassis elements layout	Chassis elements layout
	E3.01_Flat undertray	Removing front flat undertray section
		Refitting front flat undertray section
		Removing center flat undertray section
		Refitting center flat undertray section
		Removing lateral flat undertray sections
		Refitting lateral flat undertray sections



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812 GTS		Removing rear flat undertray section
		Refitting rear flat undertray section
	E3.02_Wheelhouses	Removing front wheelhouses
		Refitting front wheelhouses
		Removing rear wheelhouses
		Refitting rear wheelhouses
	E6.01_Sanding and cleaning	Sanding and cleaning
	E6.02_Use of hardeners and thinners	Use of hardeners and thinners
	E6.03_Preparing and painting aluminum panels	Preparing and painting aluminum panels
	E6.04_Preparing and painting steel panels	Preparing and painting steel panels
	E6.05_Repairing cataphoresis coating	Repairing cataphoresis coating
	F3.01_Battery	Disconnecting battery
		Connecting battery
		Resetting self-adaptive parameters
	F4.02_ External lights	Removing headlights
		Refitting headlights
	F6.01 _ AC system layout	Air conditioning system layout
	F7.01 _ Anti-theft system layout	Anti-theft system layout
	F8.01 _ Airbag system layout	Airbag system layout
	F9.01_Infotainment system layout	Infotainment system layout
	F10.01 _ Audio system layout	Audio system layout
	F11.01 _ TPMS system layout	TPMS system layout



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812 GTS	F12.01 _ Suspension damping control system layout	Suspension damping control system layout
	F13.01_ Parking sensor system layout	Front parking sensor system layout
	F15.01_ Lift system layout	Lift system layout
	F16.01_ Active aerodynamics system layout	Active aerodynamics system layout
	F17.01_ Telemetry system layout	Telemetry system layout
	F19.01_ Passive Start system layout	Passive Start system layout
	F20.01_ADAS system layout	ADAS system layout

F8 Tributo/ F8 Spider	B3.01_Ignition system layout	Ignition system layout
	B10.07_Engine cooling system electric fans	Removing engine cooling system electric fans
	B13.03_Turbocharging system intercoolers	Removing turbocharging system intercoolers
		Refitting turbocharging system intercoolers
	D3.07 _ ABS sensors	Removing ABS sensors
		Refitting ABS sensors
	D3.08_ESC yaw sensor	Removing ESC yaw sensor
	D6.04_Steering angle ECU (NAS)	Removing steering angle ECU (NAS)
		Refitting steering angle ECU (NAS)
	D6.10_Steering wheel	Removing steering wheel
		Refitting steering wheel
	E3.01_Flat undertray	Removing rear flat undertray diffuser
		Refitting rear flat undertray diffuser
	E3.02_Wheelhouses	Removing rear wheelhouses
		Refitting rear wheelhouses



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F8 Tributo/ F8 Spider	E3.05_Bumpers	Removing rear bumper
		Refitting rear bumper
	E3.07_ Lids	Removing front lid
		Refitting front lid
	E3.11 _ Fuel filler flap	Removing fuel filler flap
		Refitting fuel filler flap
	E4.08 _ Seats	Removing front seats
	E6.01_Sanding and cleaning	Sanding and cleaning
	E6.02_Use of hardeners and thinners	Use of hardeners and thinners
	E6.03_Preparing and painting aluminum panels	Preparing and painting aluminum panels
	E6.04_Preparing and painting steel panels	Preparing and painting steel panels
	E6.05_Repairing cataphoresis coating	Repairing cataphoresis coating
	F3.01_Battery	Removing battery
		Refitting battery
	F6.05_AC system compressor	Removing AC system compressor
		Refitting AC system compressor
	F7.04 _ Anti-theft system siren	Removing anti-theft system siren
		Refitting anti-theft system siren



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488 Pista / 488 Pista Spider	B2.01_Complete engine	Removing complete engine
		Refitting complete engine
	E2.02_ Subframes	Removing rear subframe
		Refitting rear subframe
	E3.05_Bumpers	Checking front bumper
		Adjusting front bumper
		Checking rear bumper
		Adjusting rear bumper
	E3.07_ Lids	Checking front lid
		Adjusting front lid
		Checking rear lid
		Adjusting rear lid
	E3.08 _ Doors	Adjusting doors
		Removing internal door seals
		Refitting internal door seals
		Removing external door seals
		Refitting external door seals
	E4.04 _ Dashboard trim	Removing dashboard trim elements
		Refitting dashboard trim elements
		Removing dashboard substructure
		Refitting dashboard substructure
	F2.05_Instrument panel controls	Removing instrument panel controls
		Refitting instrument panel controls



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488 Pista / 488 Pista Spider	F2.06_NIT controls	Removing NIT controls
		Refitting NIT controls
	F2.07_ External light controls	Removing external light controls
		Refitting external light controls
	F2.08_ Parking brake controls	Removing parking brake controls
		Refitting parking brake controls
	F2.09_ External rear view mirror controls	Removing external rear view mirror controls
		Refitting external rear view mirror controls
	F2.11_ DCT gearbox controls	Removing DCT gearbox controls on center tunnel console
		Refitting DCT gearbox controls on center tunnel console
	F2.12_Door window controls	Removing door window controls
		Refitting door window controls
	F2.13_Lid controls	Removing lid release controls
		Refitting lid release controls
	F2.14_Door controls	Removing door lock controls
		Refitting door lock controls
	F2.16_Lift system controls	Removing lift system controls
		Refitting lift system controls
	F6.02_AC system gas	Discharging air conditioning system
		Recharging air conditioning system
	F6.03_Complete AC unit	Removing complete AC unit
		Refitting complete AC unit



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Portofino	B2.01_Complete engine	Removing complete engine
		Refitting complete engine
	B2.08_Engine covers	Removing cylinder covers
		Refitting cylinder covers
	B8.07_Engine lubrication system pressure control solenoid valves	Applying grease to connectors of engine lubrication system pressure control valves
	B13.02_Turbochargers	Removing turbochargers
		Refitting turbochargers
	E2.03_Cross members	Removing engine compartment cross member
		Refitting engine compartment cross member
	E3.03_Engine compartment cosmetic shields	Removing engine compartment inspection covers
		Refitting engine compartment inspection covers
	E3.05_Bumpers	Checking front bumper
		Adjusting front bumper
		Checking rear bumper
		Adjusting rear bumper
	E3.07_Lids	Checking front lid
		Adjusting front lid
		Checking rear lid
		Adjusting rear lid
	E3.08_Doors	Checking doors
		Adjusting doors
		Removing door locks



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Portofino	E3.08 _ Doors	Refitting door locks
		Removing internal door seals
		Refitting internal door seals
		Removing external door seals
		Refitting external door seals
	E3.10_ Screens and windows	Checking front side windows
	E3.11 _ Fuel filler flap	Checking fuel filler flap
		Adjusting fuel filler flap
	E4.02_Passenger compartment trim	Removing passenger compartment trim
		Refitting passenger compartment trim
	E6.01_Sanding and cleaning	Sanding and cleaning
	E6.02_Use of hardeners and thinners	Use of hardeners and thinners
	E6.03_Preparing and painting aluminum panels	Preparing and painting aluminels
		Preparing and painting steel panels
	E6.05_Repairing cataphoresis coating	Repairing cataphoresis coating
	F2.12_Door window controls	Removing door window controls
		Refitting door window controls
	F2.14_Door controls	Removing door lock controls
		Refitting door lock controls
	F2.17_RHT controls	Removing RHT roof controls
		Refitting RHT roof controls
	F3.05_ Fuses and relays	Replacing fuses and relays
	F8.05 _ Seat belts	Removing rear seat belts



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Portofino	F8.05 _ Seat belts	
		Refitting rear seat belts
	F9.02_ Infotainment system ECU (NIT)	Removing infotainment system ECU (NIT)
		Refitting infotainment system ECU (NIT)
	F9.04_ Infotainment system antennas	Removing infotainment system GPS antenna
		Refitting infotainment system GPS antenna
	F20.03_ADAS system MPS camera	Removing ADAS system MPS camera
		Refitting ADAS system MPS camera

Monza SP1/ Monza SP2	B2.01_ Complete engine	Removing complete engine
		Refitting complete engine
	B2.04_ Torsional damper	Removing torsional damper
		Refitting torsional damper
	B2.05_ Flywheel	Removing flywheel
		Refitting flywheel
	B2.07_ Engine mounting bushes	Removing engine mounting bushes
		Refitting engine mounting bushes
	B4.06_ Engine fuel system filters	Removing engine fuel system filters
		Refitting engine fuel system filters
	B4.07_ Fuel pumps	Removing fuel pumps
		Refitting fuel pumps
	B6.02_ Injection system ECU (ION)	Removing injection system ECU (ION)



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Monza SP1/ Monza SP2		Refitting injection system ECU (ION)
	B7.04_Engine air intake manifolds	Removing engine air intake manifolds
		Refitting engine air intake manifolds
	B11.02_Exhaust manifolds	Removing exhaust manifolds
		Refitting exhaust manifolds
	B11.03 _ Exhaust system catalytic converters	Removing exhaust system catalytic converters
		Refitting exhaust system catalytic converters
	B11.04_Gasoline particulate filters (GPF)	Removing exhaust system particulate filters (GPF)
		Refitting exhaust system particulate filters (GPF)
	B11.05 _ Exhaust system extensions	Removing rear exhaust extensions
		Refitting rear exhaust extensions
	D5.06_ Stabilizer bars	Removing front stabilizer bars tie-rods
		Refitting front stabilizer bars tie-rods
		Removing rear stabilizer bars tie-rods
		Refitting rear stabilizer bars tie-rods
	E2.01_Chassis elements layout	Chassis elements layout
	E2.02_ Subframes	Removing rear subframe
		Refitting rear subframe
	E3.05_Bumpers	Checking front bumper
		Adjusting front bumper
		Checking rear bumper
		Adjusting rear bumper
		Removing rear bumper



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Monza SP1/ Monza SP2		Refitting rear bumper
	E3.06_External trim	Removing lateral external trim
		Refitting lateral external trim
	E3.07_ Lids	Checking front lid
		Adjusting front lid
		Checking rear lid
		Adjusting rear lid
	E3.08 _ Doors	Checking doors
		Adjusting doors
		Removing doors
		Refitting doors
		Removing door locks
		Refitting door locks
		Removing internal door seals
		Refitting internal door seals
	E3.11 _ Fuel filler flap	Checking fuel filler flap
		Adjusting fuel filler flap
	E4.02_Passenger compartment trim	Removing passenger compartment trim
		Refitting passenger compartment trim
	E4.03_Center tunnel console trim	Removing center tunnel console trim elements
		Refitting center tunnel console trim elements
	E4.05 _ Door trim	Removing door trim elements
		Refitting door trim elements



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Monza SP1/ Monza SP2	E4.07_ Mats and footrests	Removing passenger compartment mats and footrests
		Refitting passenger compartment mats and footrests
	E6.01_Sanding and cleaning	Sanding and cleaning
	E6.02_Use of hardeners and thinners	Use of hardeners and thinners
	E6.03_Preparing and painting aluminum panels	Preparing and painting aluminum panels
	E6.04_Preparing and painting steel panels	Preparing and painting steel panels
	E6.05_Repairing cataphoresis coating	Repairing cataphoresis coating
	F2.01_Vehicle controls layout	Layout of instruments and controls on dashboard
		Layout of instruments and controls on steering wheel
		Layout of instruments and controls on center tunnel console
	F2.02 _ Instrument panel	Removing instrument panel
		Refitting instrument panel
	F2.04_Controls on steering wheel	Removing controls on steering wheel
		Refitting controls on steering wheel
	F2.05_Instrument panel controls	Removing instrument panel controls
		Refitting instrument panel controls
	F2.06_NIT controls	Removing NIT controls
		Refitting NIT controls
	F2.09_External rear view mirror controls	Removing external rear view mirror controls
		Refitting external rear view mirror controls
	F2.10 _ AC system controls	Removing AC system controls



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Monza SP1/ Monza SP2		Refitting AC system controls
	F2.11_ DCT gearbox controls	Removing DCT gearbox controls on steering wheel
		Refitting DCT gearbox controls on steering wheel
		Removing DCT gearbox controls on center tunnel console
		Refitting DCT gearbox controls on center tunnel console
	F2.13_ Lid controls	Removing lid release controls
		Refitting lid release controls
	F2.14_ Door controls	Removing door lock controls
		Refitting door lock controls
	F2.16_ Lift system controls	Removing lift system controls
		Refitting lift system controls
	F4.02_ External lights	Headlight control
		Adjusting headlights
	F6.06 _ AC system expansion valve	Removing AC system expansion valve
		Refitting AC system expansion valve
	F6.08_ AC system condenser	Removing AC system condenser
		Refitting AC system condenser
	F8.01 _ Airbag system layout	Airbag system layout
	F8.06_ Roll bar	Removing rollbar
		Refitting rollbar
	F9.01_ Infotainment system layout	Infotainment system layout
	F9.06_ Infotainment system USB ports	Removing infotainment system USB ports



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Monza SP1/ Monza SP2		Refitting infotainment system USB ports
	F9.09_Infotainment system USB splitter	Removing USB splitter
		Refitting USB splitter
	F10.01 _ Audio system layout	Audio system layout
	F10.03 _ Audio system speakers	Removing audio system front woofers
		Refitting audio system front woofers
		Removing audio system front tweeters
		Refitting audio system front tweeters
		Removing audio system front midrange speakers
		Refitting audio system front midrange speakers

Spare Parts Catalog

This update includes all changes to the Spare Parts Catalog concerning the models included in the Technical Documentation, up until **February 25, 2020**.

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

-F430	Spare Parts Catalog updated
-F430 Spider	Spare Parts Catalog updated
-Scuderia Spider 16M	Spare Parts Catalog updated
-430 Scuderia	Spare Parts Catalog updated
-488 Pista	Spare Parts Catalog updated
-488 Pista Spider	Spare Parts Catalog updated
-599 GTB Fiorano	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
-SA APERTA	Spare Parts Catalog updated
-488 GTB	Spare Parts Catalog updated



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-488 Spider	Spare Parts Catalog updated
-812 Superfast	Spare Parts Catalog updated
-812 GTS	Spare Parts Catalog updated
-GTC4 Lusso T	Spare Parts Catalog updated
-GTC4 Lusso	Spare Parts Catalog updated
-California T	Spare Parts Catalog updated
-California	Spare Parts Catalog updated
-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
-Portofino	Spare Parts Catalog updated
-Monza SP1	Spare Parts Catalog updated
-Monza SP2	Spare Parts Catalog updated
-F8 Tributo	Spare Parts Catalog updated
-F8 Spider	Spare Parts Catalog updated
-488 Challenge	Spare Parts Catalog updated

Electrical diagrams

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

-812 Superfast	Updated electrical wiring diagrams
-LaFerrari	Updated electrical wiring diagrams
-California	Updated electrical wiring diagrams
-California T	Updated electrical wiring diagrams
-488 Spider	Updated electrical wiring diagrams
-GTC4 Lusso	Updated electrical wiring diagrams
-GTC4 Lusso T	Updated electrical wiring diagrams

Thank you for your co-operation.