

# Thunder Valley® F1 Formula Perfect Kits

Photo Etch Reference

Designed and engineered for Tamiya's 1/12 Scale Ferrari 641/2 (F190)



Please Note: If you have any issues assembling your kits or need replacement parts, please contact us for assistance at [paulraterink@thundervalleyf1.com](mailto:paulraterink@thundervalleyf1.com). Replacement parts and shipping are free of charge. Regardless of what happened we are here to help. If there was an assembly issue caused by our documentation, please let us know by sending an email to [feedback@thundervalleyf1.com](mailto:feedback@thundervalleyf1.com) detailing the problem. Feel free to suggest any ways our documentation could be improved (wording, assembly order, images).

Fellow Model Builder,

*Thank you for selecting our products to enhance your F1 models. We appreciate your business very much. We at Thunder Valley F1 thoroughly research each product prior to its development, we use state-of-the-art computer-aided-design software along with CNC machinery to create and manufacture the most accurate and precise F1 model products available. Our workmanship and your satisfaction are unconditionally guaranteed. We want you to be completely satisfied with your decision to select and use our products. If not, we'll make it right.*

Part Reference:

- 1A - Injector Butterflies Base Plate mounts on underside of part R37 (Use replacement resin air box base)
- 1B - Injector Butterflies Base Plate mounts underside of part R37 (Use replacement resin air box base)
- 1C - Seatbelt Hardware
- 1D - Aero Vane, replaces E12, mounts underside on part U4
- 1E - Electronics Box Side Panels, replaces part of R43
- 1F - Fire Bottle Mounting Brackets, replaces part of R35, mount on part E19 (use with cast metal part)
- 1G - Engine Forward Mounting Bracket, replaces part R57, mounts on E8
- 1H - Engine Forward Mounting Bracket, replaces part R58, mounts on E4
- 1I - Half-shaft CV Joint Ring, mounts on part E16 (x2)
- 1J - Transaxle Ring, mount on both sides of Engine/Transaxle unit where parts E16 are fitted.
- 1K - Ignition Coil Pack Cover, mounts on part E4, replaces part E21
- 1L - Ignition Coil Pack Cover, mounts on part E8, replaces part E20
- 1M - Fire Bottle Rubber Vibration Strap, paint black, wraps around cast metal fire bottle

1N - Fire Bottle Mounting Strap, overlays on and used in conjunction with Vibration Strap above

1O - Side Mirrors Reflective insert, polish to mirror finish

1P - Insert for Rain Light, polish to mirror finish, coat with Tamiya Clear Red, fits into E16

1Q - Final Exhaust Heat Shield Plate, mounts to underside of part R26

1R - Electronics Box Top Panel, replaces part of R43

1S - Seatbelt Hardware

1T - Seatbelt Hardware

1U - Seatbelt Hardware

1V - Seatbelt Hardware

1W - Exhaust Heat Shield, right side, mount on U4 after engine are has been foiled

1X - Roll Hoop Rear Mounting Plates, affix to part E34, use either or per your preference

1Y - Exhaust Heat Shield, left side, mount on U4 after engine are has been foiled

1Z - Left Side Radiator Retaining Strap, replaces part R11

1AA - Right Side Radiator Retaining Strap, replaces part R12

1AB - Right Front Roll Hoop Mounting Plate, affix to part E32

1AC - Left Front Roll Hoop Mounting Plate, affix to part E32

1AD - Right Rear Jack Point, replaces part R34

1AE - Left Rear Jack Point, replaces part R34

1AF - Electronics Display Panel, media blast or etch with acid for matt finish, replaces decal #21

1AG - Final Exhaust Heat Shield Plate, mounts to top side of part R26 Removal of shield vanes on top side of part U4 is required. After parts 1AQ are in place, fabricate replacement vanes using .020 sheet styrene or .020 polished aluminum sheet.

1AH - Gurney Flap, mounts on upper wing element part U13

1AI - Front Suspension Damper Mounts, replace parts A9, affix to monocoque, use these or parts 1AL

1AJ - Left Side Radiator Retaining Strap, replaces part R11 (addl. Parts. extra length)

1AK - Right Side Radiator Retaining Strap, replaces part R12 (addl. Parts. extra length)

1AL - Front Suspension Damper Mounts, replace parts A9, affix to monocoque, use these or parts 1AI

1AM - Right Side Upper Suspension Mount on Transaxle, replace on part E6

1AN - Left Side Upper Suspension Mount on Transaxle, replace on part E6

1AO - Aero Vane, replaces E13, mounts underside on part U4

1AP - Paddle Shifter Levers, replaces part E3

1AQ - Mounting Straps for Electronics Box R43, Fold as needed to fit

2A - Large Washers for Detailing

2B - Medium Washers for Detailing

2C - Large Nuts for Detailing

2D - Medium Nuts for Detailing

2E - Small Nuts for Detailing

2F - Chassis Support Brackets

2G - Small Electronics Connector Bases 2H - Medium Electronics Connector Bases

2I - Large Electronics Connector Bases

2J - Traditional Style Hose Clamps

2K - Medium Dzus Fasteners, Closed Style

2L - Chassis Stay Brackets

2M - Chassis Support Brackets

2N - Metal Zip Ties

2O - Emergency Disconnect Rings, use either or, dip in red paint to coat

2P - Exhaust Flanges

2Q - Instrument Panel Switches Base Plate

2R - Detail for on top of Oil Tank, part E23

2S - Electronics Connectors Mounting Bases

2T - Large Dzus Fasteners, Closed Style

2U - Load Spreaders on monocoque, one per side, refer to reference photos on CD

2V - Medium Dzus Fasteners, Closed Style

2W - Throttle Linkage Parts, replace part R1

2X - Chassis Stay Brackets

2Y - Large Dzus Fasteners, Open Style

2Z - Large Dzus Fastener Head, Open Style

2AA - Small Dzus Fasteners, Closed Style, Used on Front Wing Trim Elements

2AB - Phillips Screw Heads

2AC - Small Washers for Detailing

2AD - Instrument Panel Switches, fit into part 2Q

2AE - Electronics Connectors Mounting Bases

2AF - Cover Plate located on transaxle unit lower left, front of the unit

2AG - Hard Line Connection Plates, one on E17, one on transaxle upper right, one extra

2AH - Electronics Connectors Mounting Bases

2AI - Suspension Adjuster to be fabricated to part E25

2AJ - Suspension Adjuster to be fabricated to part E25

2AK - Medium Dzus Fasteners, Closed Style

2AL - Small Washers for Detailing

2AM - Chassis Support Brackets

2AN - Dzus Fastener Receivers, Mount under bodywork on monocoque directly under Dzus Fastener locations on bodywork panels

2AO - Throttle Linkage Parts, replace part R1

2AP - Throttle Linkage Parts, replace part R1

2AQ - Seatbelt Hardware

2AR - Instrument Panel Push Button Bases

2AS - Instrument Panel Push Buttons

2AT - Instrument Panel Push Buttons

2AU - Load Spreaders, used under radiator mounting straps on carbon fiber components

2AV - Injector Butterflies, Parts 2AV, 2AW & 2AX to be assembled and fitted to the underside of replacement resin air box base

2AW - Injector Butterfly Top Retaining Straps

2AX - Injector Butterfly Bottom Locating Strap

2AY - Coil Pack Retaining Tabs, mount under photo etch parts 1K & 1L 2AZ - Covers for mountings R32

2BA - Covers for mountings R32

We are fully committed to ensuring our products are engineered to be easy to use and enjoyable. So rest assured, we are here to help in any way we can.

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