

Introducing the F1 Kit



Vision

The F1 is a high-performance 2-seat metal aircraft leading a family of evolutionary versions including landing gear design, cabin seating and wing layout variations.

The most awesome, affordable, high-performance, kit-built aircraft on the planet.

The F1 is an all-metal airframe crafted and designed for the discriminating pilot that seeks F16 like performance at an affordable price. If you enjoy the thrill of blasting off with a 3500 fpm climb and leveling off at 10,000 feet five minutes later for a 230+ mph cruise, then the F1 is for you!

Performance is everything!

This means on the ground as well as in the air! At Team Rocket, our performance on the ground is in our dedication to our customers. We are driven every day to provide our customers with the highest quality products, impeccable service, and the best prices available.

Quality

The Unassembled Kit parts and as well the Quick Build Kit offer real professional aircraft production standards in accuracy, surface smoothness and preparation, from the pre-drilled rivet holes to the anodized aluminum structure to the wing skins. You don't need a special temperature controlled workshop to build your F1. If you are comfortable in your shop, you will be able to build a fine quality aircraft.

The Factory behind the Kit

All-in-one from CAM to your individual Kit

International High Performance Aircraft IHPA was founded in 1997 and is located in Venice, FL (www.ihpaircraft.com) with a subdivision in the Czech Republic (www.hpai.cz). Our specialists have many years experience in experimental kit production and apply their scientific knowledge in aircraft research and testing to produce your F1 kit.

CAM

The development and design section of our company creates all production technology ranging from a self-developed basic F1 3D-CAD model to the final die-blocks, unfolded cutting sketches, assembly jigs, etc., to CNC-machining. A correct and accurate data base, information processing, and production type tooling are the main conditions for correct results, and we have these!

Reliability

The production follows the general quality recommendations for small aircraft producers in Europe. To ensure and prove our production system quality standards we cooperate with The Aircraft Research and Test Institute Laboratories VLZU (Static laboratory, Fatigue laboratory, Material tests) in Prague.

Packaging and Destinations

Our products can be delivered to any destination according to customer requirements, from a small package with a single spare part, up to a container with several kits together.

Technical & Building Assistance

Technical Assistance is provided to ensure all customers are supported with expertise and friendly advice.

Additionally, we offer a free subscription to the F1-e-group-mail-list as a communication and support platform between the customer and the factory, and also between the customers themselves.

In addition, the website www.teamrocketaircraft.com, and associated links, provide the customer with valuable information for his project: building his own F1.



Join the Champions League of Experimental Aircraft

Specifications

Top Speed	253 mph	407 km/h	220 kts
Cruise Speed @ 75% power	230 mph	370 km/h	200 kts
Stall Speed	54 mph	87 km/h	47 kts
Range @ 55% power	1150 mi	1850 km	1000 nm
Rate of Climb @ Sea Level	3500 fpm	17 m/s	
Takeoff Distance	300 ft	100 m	
Ground Roll Distance	700 ft	220 m	
Power Range	235 – 300+ hp	173 – 220+ kW	
Fuel Capacity	52 gals	196 l	
Empty Weight	1200 lbs	545 kg	
Gross Weight	2000 lbs	908 kg	
Length	21 ft	6,40 m	
Wing Span	22' 6"	6,86 m	
Wing Area	106 sq ft	9,85 m ²	
No. of Seats	2		
Engine used	Lycoming IO-540 (parallel valve type)		
Landing Gear	Conventional type		
Building Materials	Metal for structure and covering with various fiberglass fairings and cowling		

High
Performance
Kit

www.teamrocketaircraft.com



© Copyright 03, 2001 by Team Rocket Inc. and IHPA, Inc., All Rights Reserved. Names of other companies, products or services referred here are used for identification purposes only and may be the trademark of their respective owners. This information and all the data, characteristics and description of the products and the products themselves including any services may be changed or cancelled without any notice. Team Rocket and IHPA hereby disclaim any possible warranties regarding this information and in no event shall be liable for any consequences occurring from their use, in any manner or direction, in perpetuity. All kits FOB Taylor Texas.

Getting started

Your Parts-Only Kit

You, the customer, decide which sub-kit you would like to assemble first. The U kit is provided in four sub-kits: empennage, wings, fuselage and finish kits. Although we suggest you start the empennage kit, you may elect to start with at a different point. Some builders prefer to assemble the fuselage and install its many systems first, while others prefer to start with a simpler, less expensive subassembly. In any case, Team Rocket has set the highest quality standards for aircraft parts and construction in the industry. We have gone the extra mile to ensure your 100% satisfaction with your F1 Kit!

The Manual

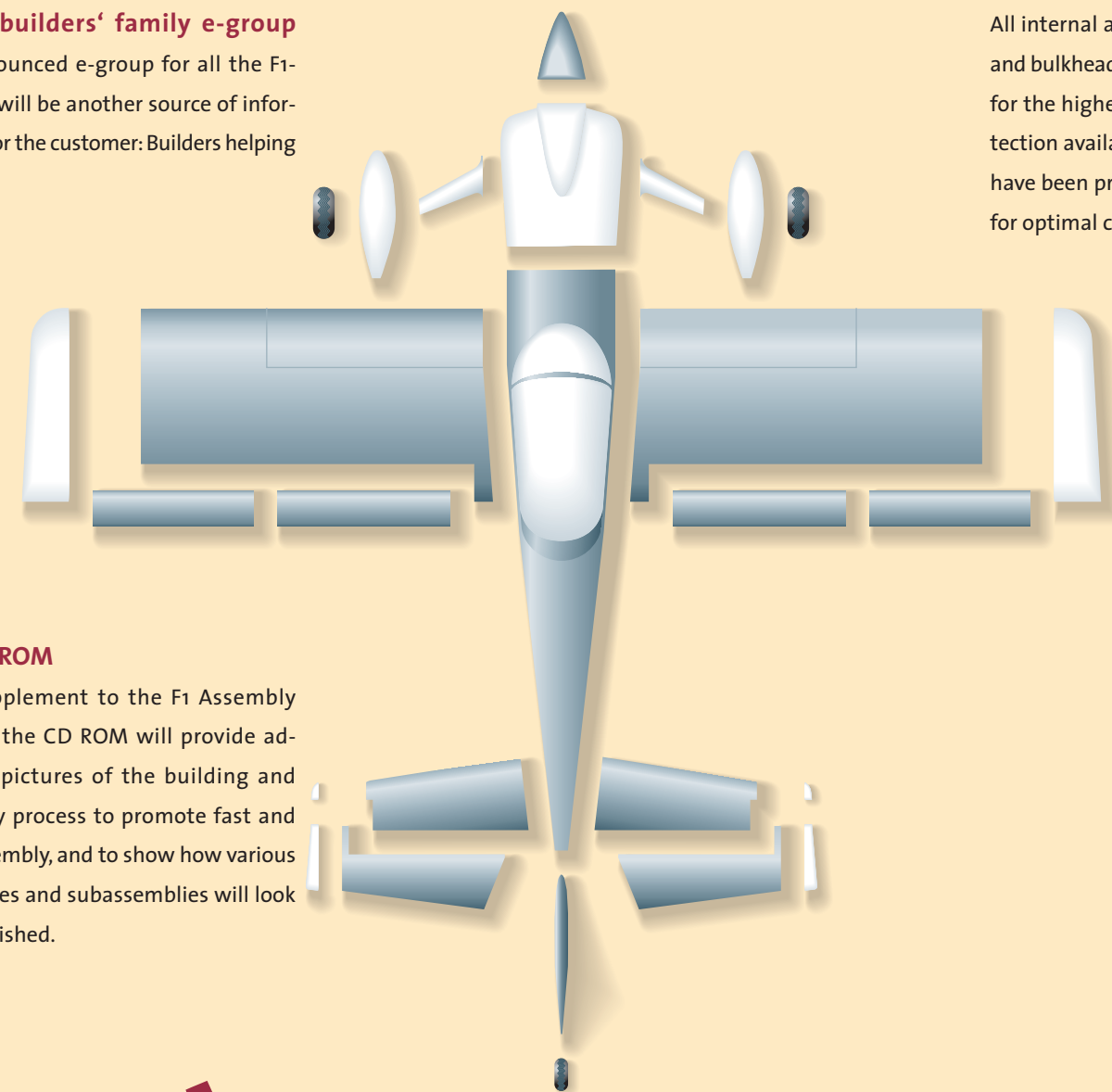
Every QB and U Kit will include a detailed Builders Manual, showing the step-by-step tasks in logical order. A Flight Manual and a Test Flight Procedure are also included.

The F1-builders' family e-group

The announced e-group for all the F1-builders will be another source of information for the customer: Builders helping builders!

The CD ROM

As a supplement to the F1 Assembly Manual, the CD ROM will provide additional pictures of the building and assembly process to promote fast and easy assembly, and to show how various assemblies and subassemblies will look when finished.



Kits

All internal aluminum metal parts, ribs, and bulkheads will be delivered anodized for the highest degree of corrosion protection available! In the QB Kit the skins have been primed with epoxy chromate for optimal corrosion resistance.

Empennage Kit

The Empennage Kit is the starter kit for all other Unassembled Parts Kits and the Quick Build Kit. We do this for two reasons:

- This gives first time builders an opportunity to discover mistakes on parts that are not expensive rather than on areas that are very expensive.
- When we proceeded through the FAA 51% approval process for the QB Kit, we determined that we could do more of the difficult jiggling and assembly work to the fuselage and wings if we made the empennage its own unassembled kit.

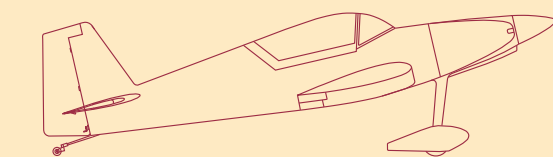
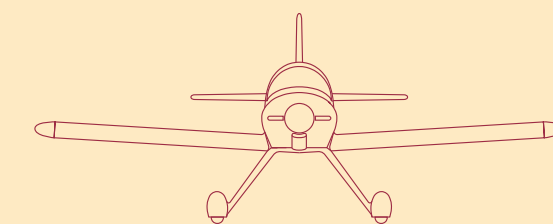
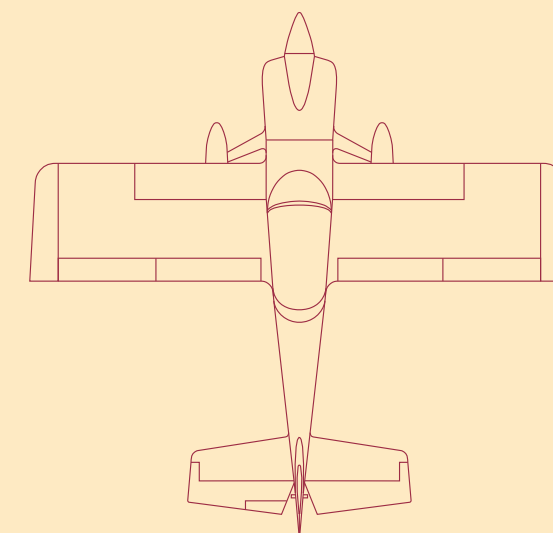
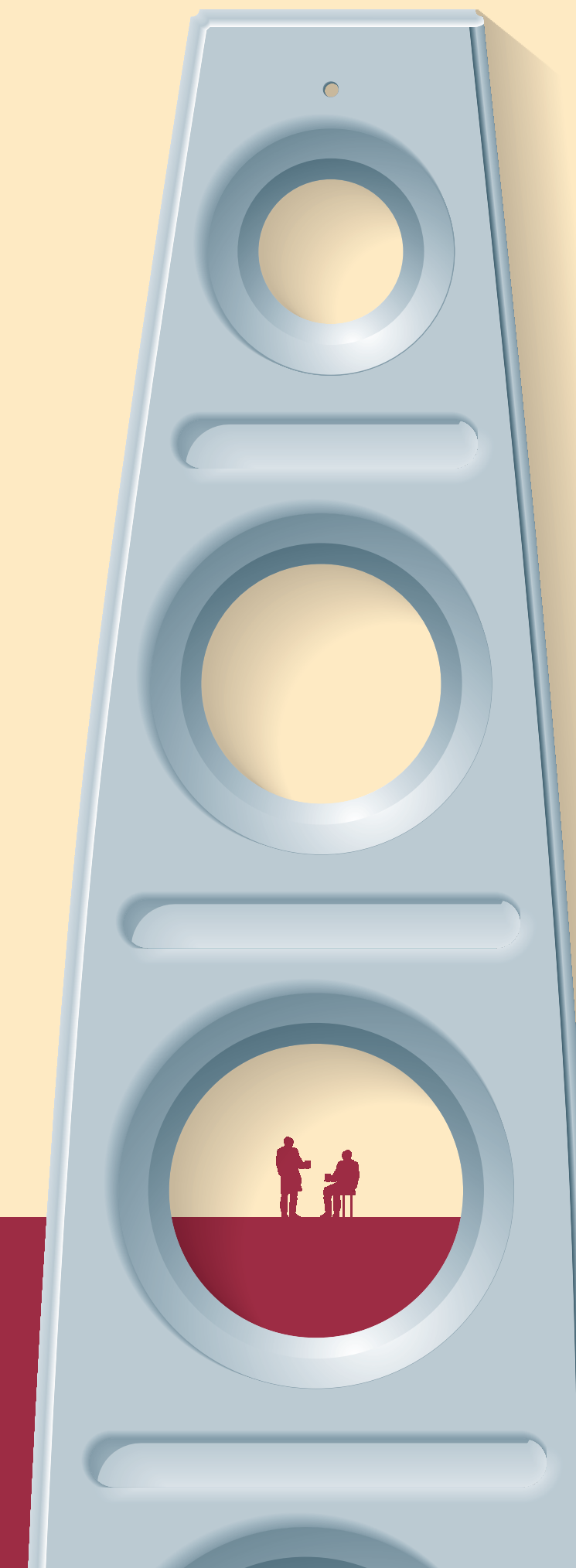
Fuselage Kit

The Fuselage Kit contains all the unassembled bulkhead parts, except the tail (belonging to the Empennage Kit), the various aluminum covering sheets cut out for correct shape, the assembled Spar Carry-thru bulkhead with accurate high precision holes for the fuselage wing main spar connection, the firewall parts, engine mount for IO-540, titanium gear

legs, wheel axle holders and all the necessary hardware, rivets and fasteners. The ELT and battery trays are preformed and ready for your final assembly and installation. All fuselage floor and baggage compartment floor panels are pre-cut and ready to install.

Wings Kit

To ensure your safety, we deliver the main spar in assembled configuration. In addition, the pressure tested fuel tanks are completely finished for fast and easy mounting. All other parts of the wing will be delivered unassembled: nose ribs, main ribs, control surface ribs and bellcranks. All the aluminum sheets are cut for accurate fit, and the necessary assembly hardware, rivets and fasteners are also supplied.



Quick Build Kit

Offered as a Quick Build Kit, these aircraft are meticulously built. Our group of highly skilled engineers and aircraft assembly specialists have cooperated to completely design the F1 QB, paying particular attention to craftsmanship and ease of assembly. While designed to comply with the FAA 51% rule, the Quick Build Kit is delivered as a complete airframe. The fuselage includes all bulkheads completed, with all skins riveted in place. The ELT and battery trays are preformed and ready for your final assembly and installation. All fuselage and baggage floor panels are pre-cut, pre-drilled, and ready to install. You, as the builder, will install the control system, seat backs and supports, instrument panel, boot cowl and canopy. The wings are delivered with the spars completed, all ribs riveted in place, and the leading edge and top skins riveted in place. You will need to install any necessary lighting and wiring, the pitot system, and the control system. When these tasks are completed, you can rivet the bottom skins in place. Fit the

control surfaces and the wingtips, and your wings are finished! The F1 is powered by a fuel-injected parallel valve Lycoming IO-540 engine, as is commonly used in the Piper Aztec. Power can range from 235 to 300+ HP, and can use either a 2- or 3-blade propeller.

Finish Kit

The F1 Finish kit is the most complete and comprehensive kit that can be provided. Either having built from the Parts kits or from the Quick Build kit, the Finish kit provides the material necessary to complete your F1 airframe (less engine, propeller, avionics, and instrumentation). Some parts that are considered upgrades by other manufacturers are included in our Finish Kit: molded fiberglass wing root fairings, gear leg and gear leg intersection fairings, sheared-type wingtips with the strobe/position light bulkhead pre-molded in place (including the Lexan lens) are included as standard equipment. Our cowling is delivered in three pieces for ease of engine service and cowling

installation. The F1 canopy is a slider type, for easy entry/exit and outstanding ventilation during ground operations – a desirable feature in warmer climates. The sturdy gear legs are machined from Titanium, and are pre-drilled to the engine mount. The wheels, brakes, tires, tubes, master cylinders, and brake and fuel lines and associated hardware are also included in the extensive Finish Kit.

The Training

Your first flight in your F1 will be an exciting never-to-forget highlight in your life as a pilot, made more gratifying by the knowledge that you built it yourself! To help you perform this outstanding milestone successfully, we offer transition training in the Factory Demonstrator.



First flight into Champions League of Experimental Aircraft



Arrival box with unassembled component parts



Or: arrival large box with main airframe-components (Quick Build)



Construction of jigs and assembly preparations



Assembling or riveting



Assembling main air-frame components



Finish Kit contents complete your F1 prior to engine installation



Pre-flight check

