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Italeri IT2822

Italeri F-22A Raptor 1:48 Scale Model Kit Instruction Manual

Model: IT2822 | Brand: Italeri



Image: The product box for the Italeri F-22A Raptor 1:48 Scale Model Kit, featuring an illustration of the F-22A Raptor aircraft.

1. Safety Information

This model kit is intended for adult collectors over the age of 14. It contains small parts that may pose a choking hazard. Keep out of reach of young children. Exercise caution when using sharp tools and adhesives.

2. Package Contents

Verify that all components are present before beginning assembly. The kit includes:

- Plastic model parts (multiple sprues)
- Assembly and coloring instructions
- Decal sheet for decorations (including 3 US versions)

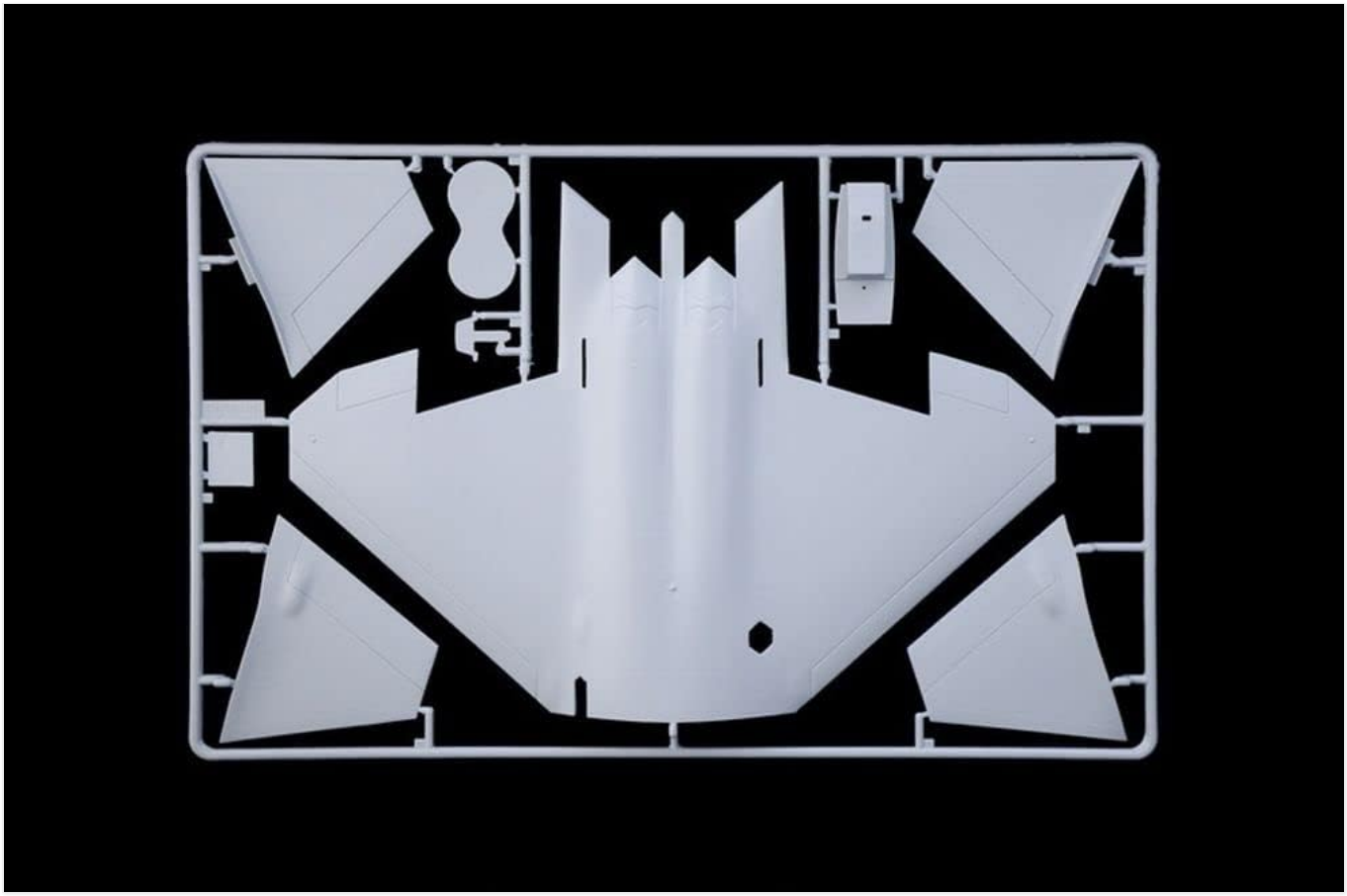


Image: Sprue containing major fuselage and wing components.

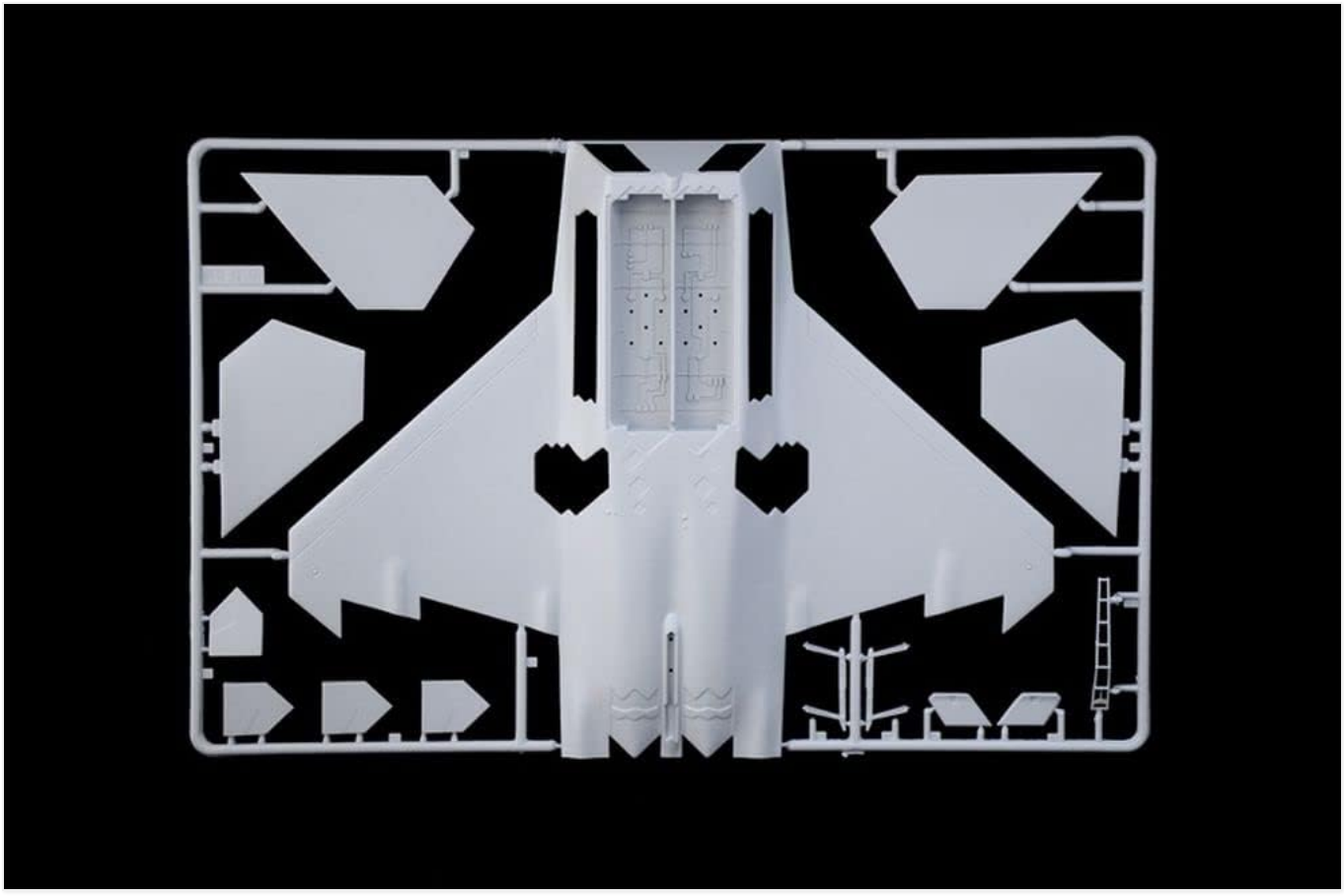


Image: Sprue with smaller detail parts and weapon components.

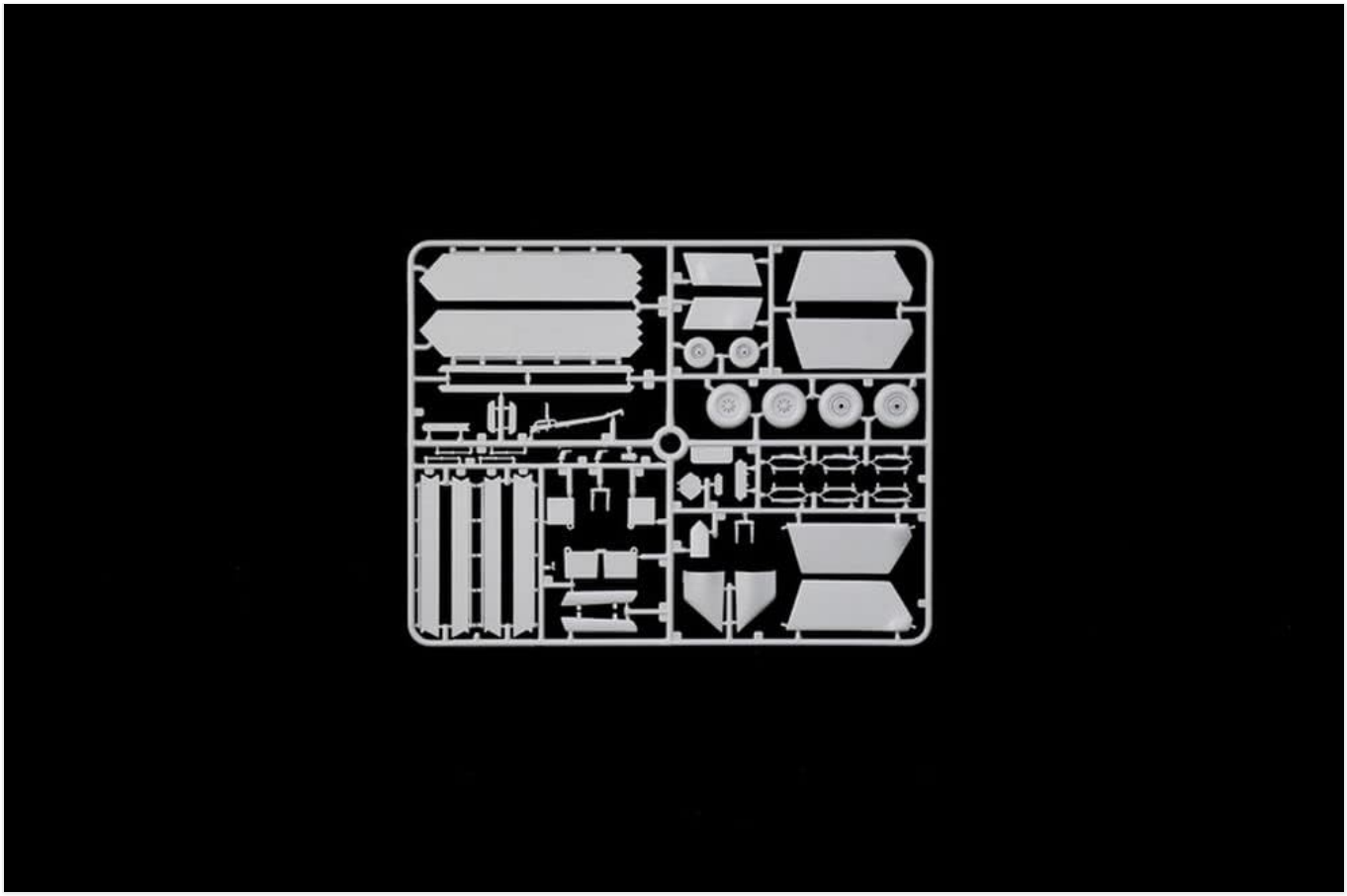


Image: Sprue containing cockpit parts and landing gear components.

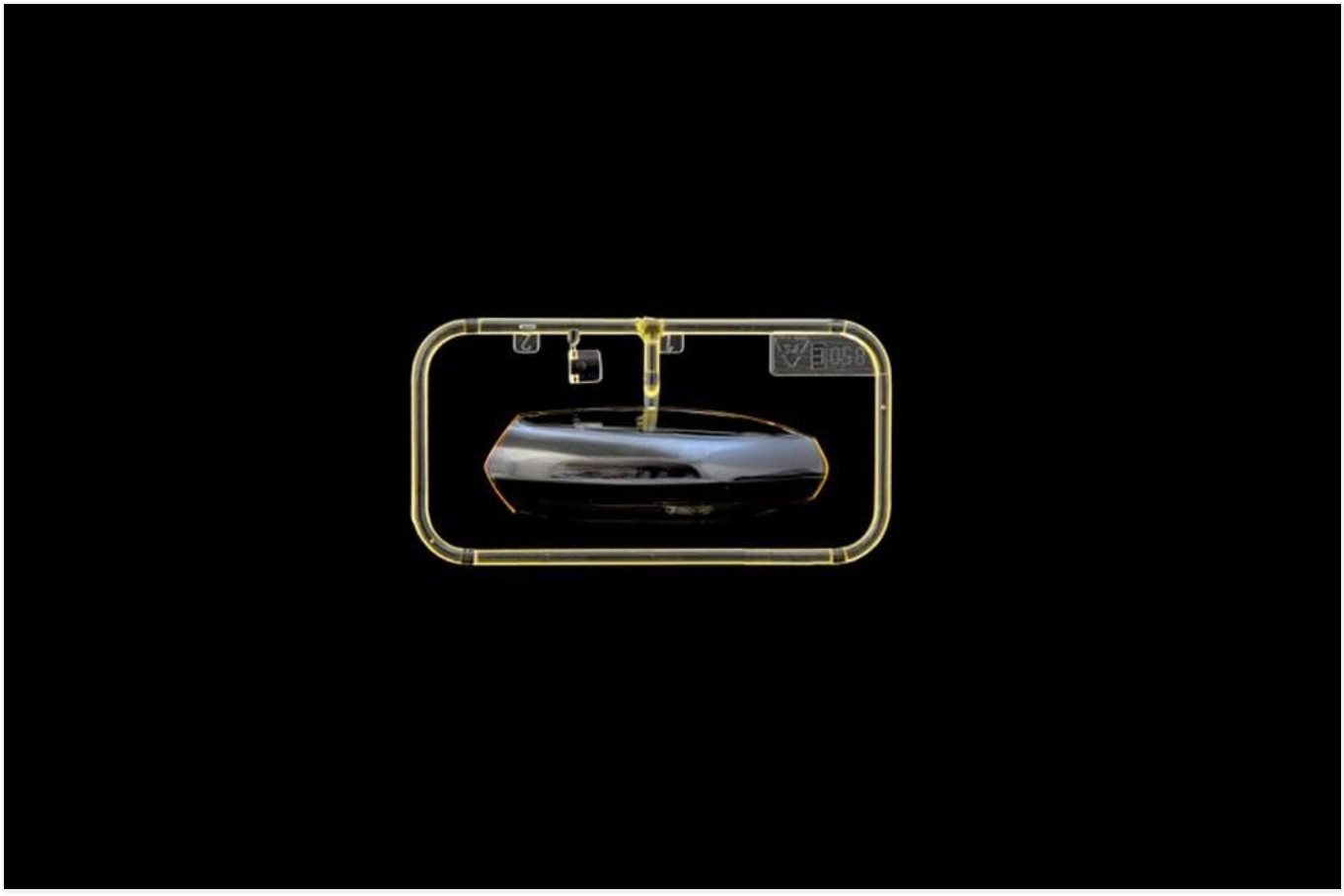


Image: Sprue containing clear plastic parts, such as the canopy.

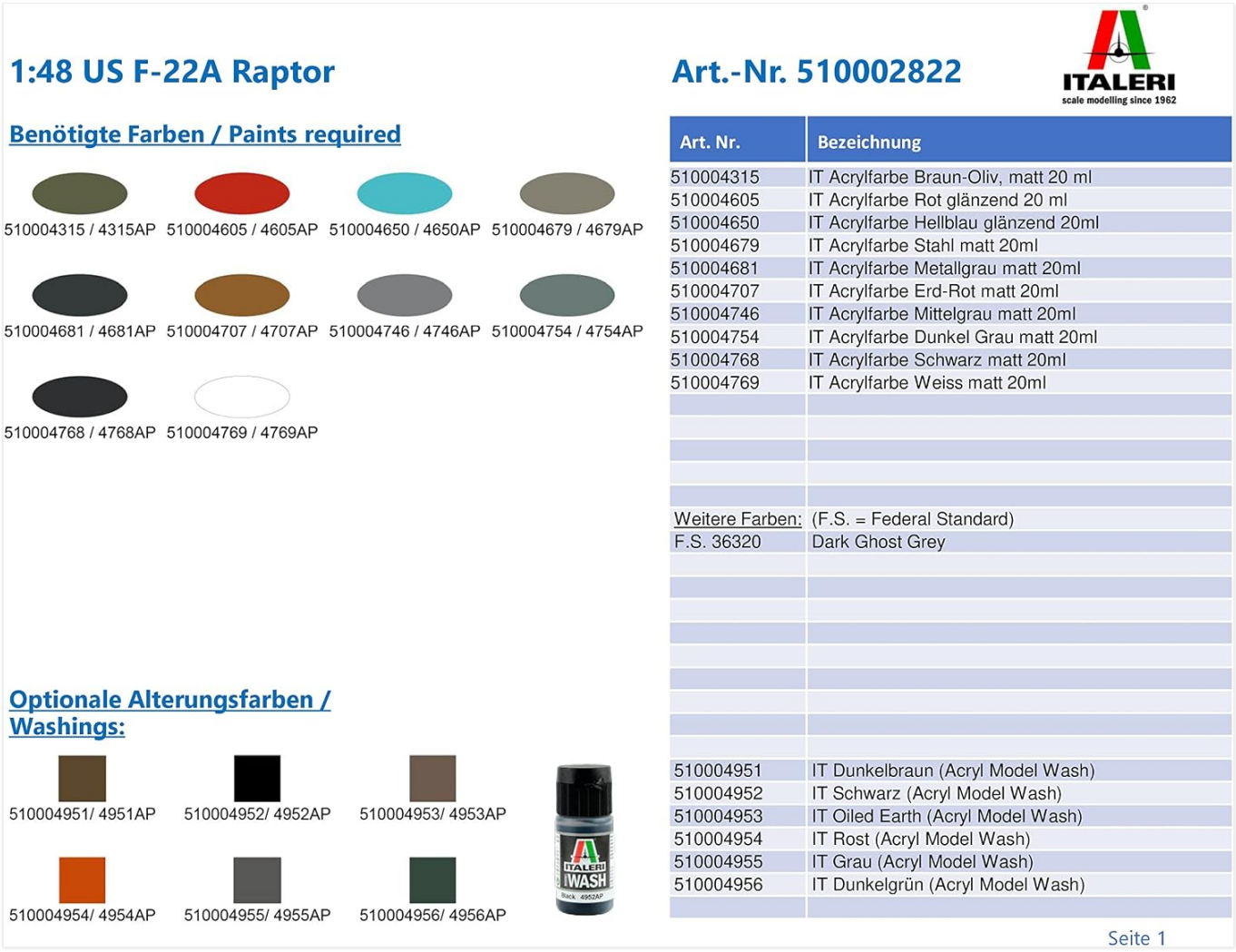


Image: Sprue containing additional small parts, including wheels and other structural elements.

3. Setup: Recommended Tools and Materials

Successful assembly requires specific tools and materials, which are not included in the kit. Refer to the image below for recommended items.

- **Plastic Cement:** For bonding plastic parts.
- **Hobby Knife/Side Cutters:** For carefully removing parts from sprues.
- **Tweezers:** For handling small parts and decals.
- **Sanding Sticks/Files:** For cleaning mold lines and sprue gates.
- **Paints:** Acrylic paints are recommended for coloring the model.
- **Paint Brushes/Airbrush:** For applying paint.
- **Masking Tape:** For precise painting.
- **Cutting Mat:** To protect your work surface.



Image: A chart displaying recommended Italeri acrylic paint colors and various modeling tools such as plastic cement, hobby knives, tweezers, and cutting mats.

4. Assembly Instructions

Follow the detailed step-by-step diagrams provided in the included instruction booklet. General steps are outlined below:

1. **Preparation:** Carefully remove parts from the sprues using side cutters or a hobby knife. Clean any excess plastic (flash) or mold lines with a hobby knife or sanding stick.
2. **Dry Fit:** Before applying cement, dry fit parts to ensure proper alignment and fit. Make any necessary adjustments.
3. **Gluing:** Apply a small amount of plastic cement to the mating surfaces. Hold parts firmly together until the cement sets. Work in small sections.
4. **Sub-Assemblies:** Assemble major components such as the cockpit, landing gear, and weapon bays separately before integrating them into the main fuselage.
5. **Fuselage Assembly:** Join the fuselage halves, ensuring a tight seam. Use clamps or tape if needed while the cement dries.
6. **Wing and Tail Assembly:** Attach wings and tail surfaces according to the instructions, paying attention to alignment.
7. **Detail Parts:** Add smaller details, antennas, and clear parts (canopy) last. Use clear-part-compatible glue for the canopy to avoid fogging.

Refer to the included instruction manual for specific part numbers and assembly sequences.

5. Painting Guide

Painting is typically done after major assembly, but some sub-assemblies (like the cockpit interior) may require painting beforehand. Refer to the included color instructions and the images below for recommended paint schemes and colors.

- **Primer:** Apply a thin coat of primer for better paint adhesion and a uniform surface.
- **Base Coats:** Apply base colors according to the chosen camouflage scheme. Use masking tape for sharp lines

between colors.

- **Detail Painting:** Paint smaller details such as landing gear, weapon bays, and exhaust nozzles.
- **Clear Coat:** Apply a gloss clear coat before applying decals to prevent silvering.

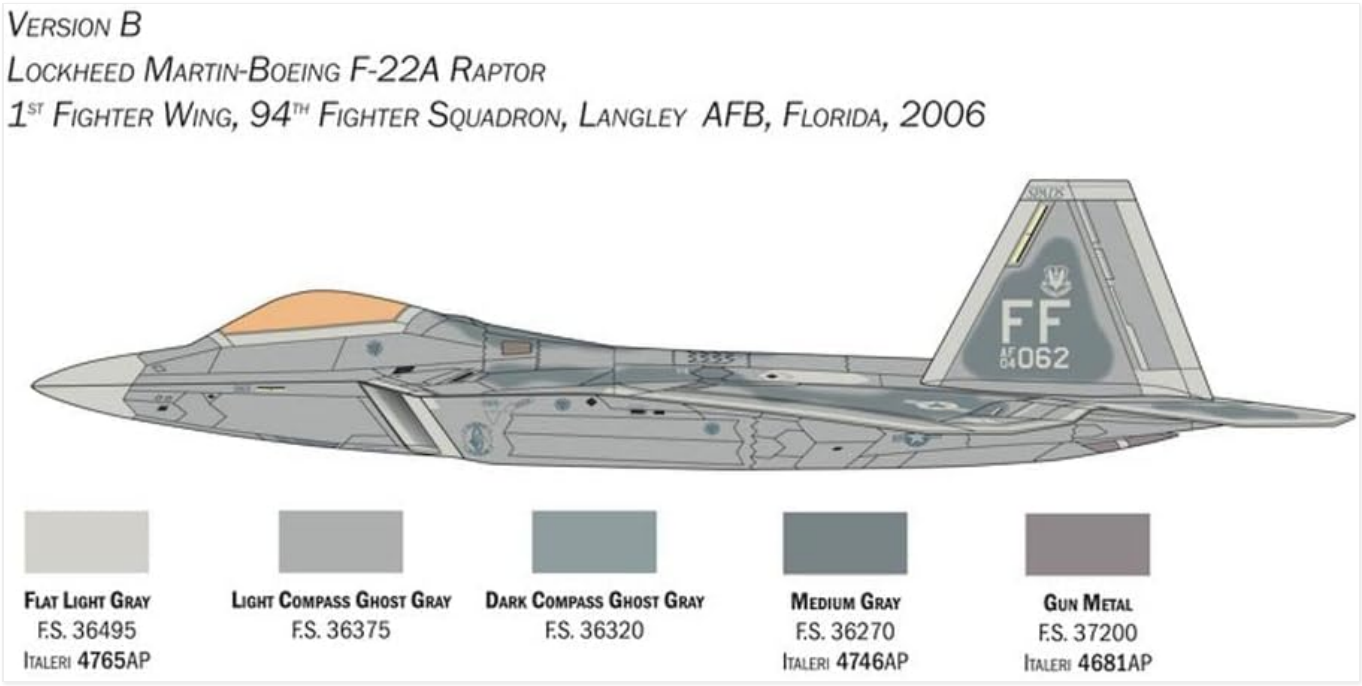


Image: Painting scheme for Version A: 3rd Fighter Wing, 525th Fighter Squadron, Elmendorf-Richardson AFB, Alaska, March 2011.

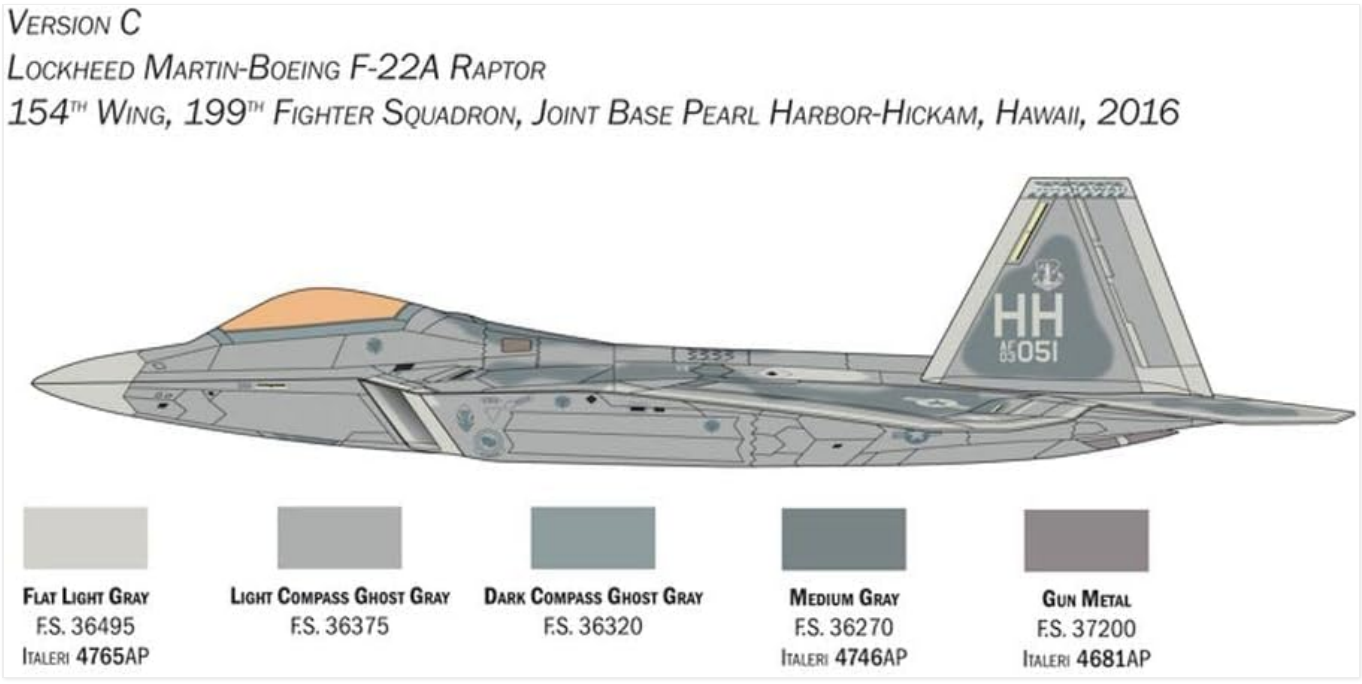


Image: Painting scheme for Version B: 1st Fighter Wing, 94th Fighter Squadron, Langley AFB, Florida, 2006.

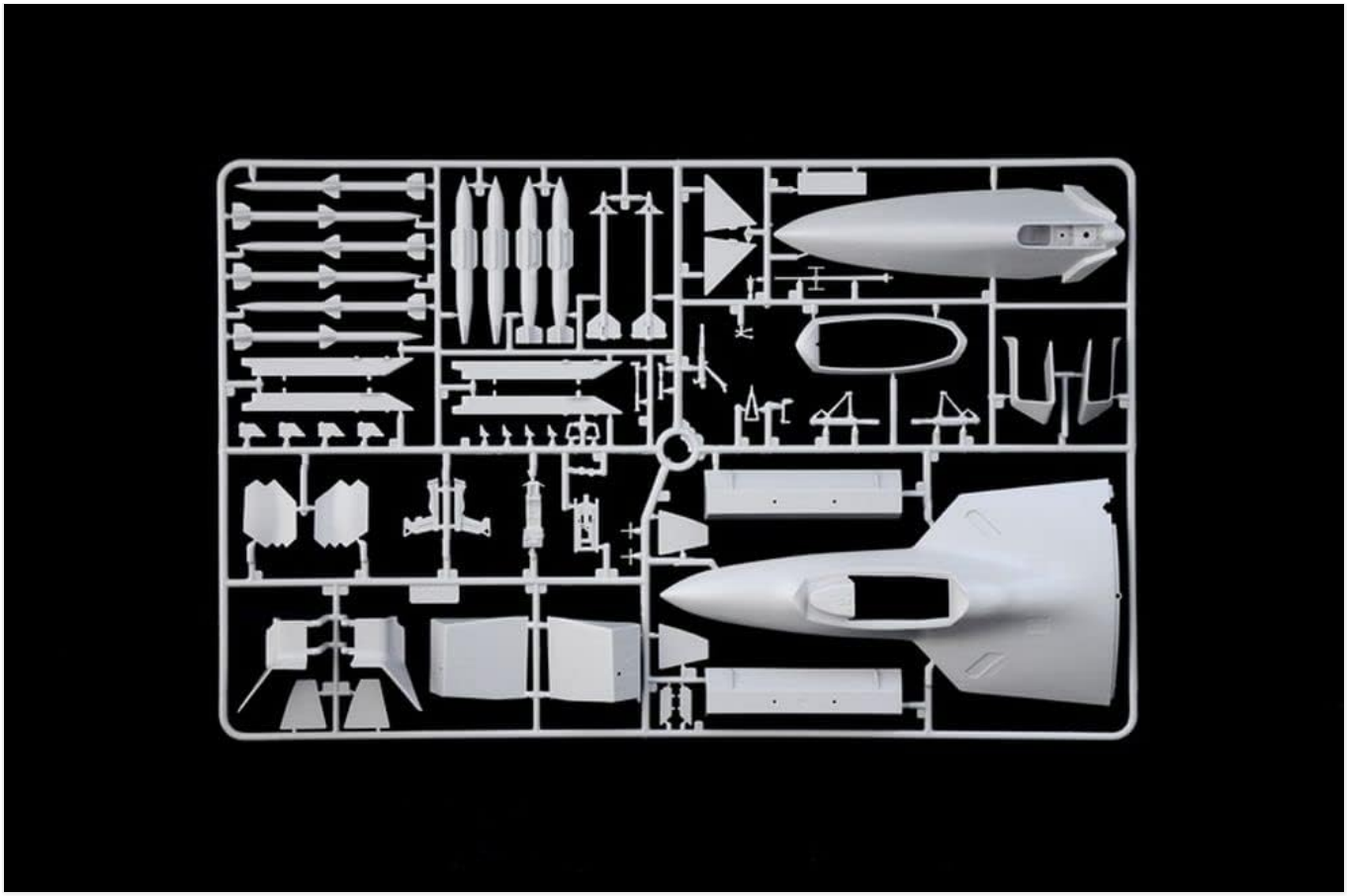


Image: Painting scheme for Version C: 154th Wing, 199th Fighter Squadron, Joint Base Pearl Harbor-Hickam, Hawaii, 2016.

6. Decal Application

The kit includes a decal sheet with markings for three different US versions. Apply decals after painting and a gloss clear coat.

1. **Preparation:** Ensure the surface where the decal will be applied is smooth and glossy.
2. **Cutting:** Carefully cut out each decal as close to the edge of the design as possible.
3. **Soaking:** Dip the decal in lukewarm water for 10-20 seconds until it can slide freely on its backing paper.
4. **Placement:** Slide the decal from its backing paper onto the model surface. Use tweezers for precise positioning.
5. **Drying:** Gently blot away excess water with a soft cloth or cotton swab. Allow decals to dry completely.
6. **Setting Solution (Optional):** Use a decal setting solution to help decals conform to surface details and eliminate air bubbles.
7. **Sealing:** Once decals are dry, apply a final clear coat (matte or satin, depending on desired finish) to protect them.

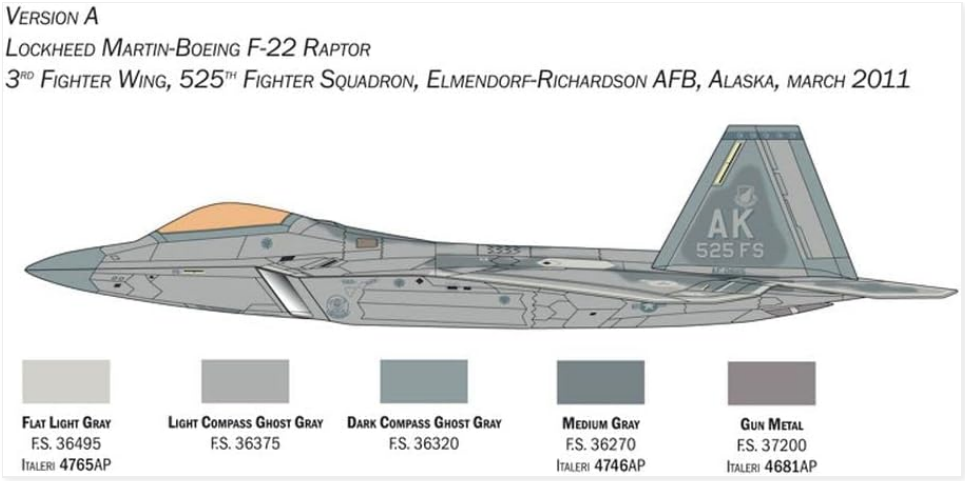


Image: The decal sheet included with the Italeri F-22A Raptor model kit, showing various markings and stencils for different aircraft versions.

7. Specifications

Feature	Detail
Brand	Italeri
Model Name	F-22A Raptor
Model Number	IT2822
Scale	1:48
Material	Plastic
Item Dimensions (L x W x H)	15.51 x 0.39 x 0.39 inches (approx. 39.4 cm length)
Item Weight	1 pound (16 ounces)
Number of Pieces	200
Recommended Age	14 years and up

8. Maintenance

To preserve the appearance of your assembled model:

- **Cleaning:** Dust the model regularly with a soft, dry brush or a can of compressed air. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Display the model in a stable location away from direct sunlight, extreme temperatures, and high humidity to prevent fading, warping, or decal damage.
- **Handling:** Handle the model carefully, avoiding pressure on delicate parts like antennas or landing gear.

9. Troubleshooting

Common issues encountered during model assembly and their potential solutions:

- **Parts Not Fitting:** Ensure parts are correctly oriented. Lightly sand mating surfaces if there is excess plastic or

mold flash. Dry fit before gluing.

- **Gaps Between Parts:** Use plastic filler putty to fill gaps after gluing. Sand smooth once dry.
- **Decal Silvering:** This occurs when air is trapped under the decal. Apply decals over a gloss surface and use a decal setting solution to help them conform.
- **Paint Adhesion Issues:** Ensure the model surface is clean and free of oils. Use a primer before applying paint.
- **Broken Small Parts:** If a small part breaks, attempt to re-glue it with plastic cement. For very delicate parts, consider reinforcing with a small pin (pinning).

10. Warranty and Support

For specific warranty information, please refer to the documentation included with your product or contact Italeri directly through their official website. For technical support or inquiries regarding missing/damaged parts, please reach out to Italeri customer service.

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