Old Guy RC Jet Instructions

Tape plans together. Make sure to tape in the middle of large pieces to hold pattern together. Trim edges to hold line and tape to foamboard at a few spots.

Cut half deep through pattern with sharp scissors. As you do, remove the pattern to verify its been cut all around. Save patterns to locate holes, slots and alignments after parts have been formed.

Once all half deep cuts have been made, remove pattern and go over all cuts with a soft dull pencil to help you see the cuts. Now cut out all parts and set aside.

Remove paper backing from all parts. Lightly sand all edges to debur – 120 grit paper works well.

Take a minute to verify which way some parts line up and which direction they will curl. For instance the main fuselage piece looks close to square but will have a long use. Use the pattern to mark which way is lengthwise before cutting.

Important

Use the pattern to mark where the wing slot doublers go on the inside of the curl. This is important so you locate the doublers exactly.

The wings should be oriented such that you don’t accidentally make the curl upside down on one.

Fuselage

Using a comfortable length of 2” rod (mine is 24” long). Place the rod on a firm, cushioned and roll back and forth pushing down. The part will curl. Usually 2-3 passes is enough. Wings take 2 passes/don’t need the curl on the airfoil. If you do you can press it out a bit on a flat surface.

Test fit the fuselage sections and trim as necessary to both meet square.

With your hands bring the edges together from the circle until you are confident the part will come together. Now cut a bead of hot melt glue along one edge and place the part on a flat surface and bring the edges together tight while the glue dries. A little will squeeze out on the seams. You can try and wipe it with a scrap of foamboard before the glue dries or trim it with a sharp knife later.

Usually the seams are bottom on most builds.

Important

Install any nose detail before gluing section together. The Mig 15, F4 for instance have an intake splitter. This piece is hard to install later.

Fuselage assembly

Test fit the sections and glue them together.

Wings

Glue the wing doubler to the bottom of each wing. Sand the LE and TE slightly to establish a nose entry into the airstream. A little level will help reduce drag of the wing from breaking the fuselage and a positive location stop for the Jet Pod. The doublers should get a slight curl to fit inside the fuselage. Glue the doublers quickly in place in the fuselage. Be prepared with a wooden dowel or spoon handle to move the part up with the marks you made. Then press down with the dowel until the glue sets.

Wing slots

Take the main fuselage pattern and tape around the center fuselage where the wings will go. There may now be a gap because the foam was stretched. Make sure the pattern is straight and any gap is even at the seam. Tape it on so it doesn’t move.

Now, think about the angle of the wing to the radius of the round fuselage. If you were to cut straight into the fuselage the wings would not have the correct dihedral. Looking from the front hold your knife along the slot pattern. If your cut is somewhat close to the correct angle your wing will be fine.

Cut all the way through both layers of fuselage and doublers. Test fit wing and trim as necessary. There is a lot of complex angles coming together at this joint. If you cut the pattern closely the wing should conform well to the fuselage. Glue around each slot and press wing in and hold the wing so that the dihedral is close. For the jets this is about 1/4” higher at tip than fuselage.

Do both wings, and then verify the wing incidence is 0 degrees or level with a straight line down the fuselage. A scrap of foam board makes a good calibration piece.

When satisfied, run a thin bead of hot melt along bottom join to fuselage. Make sure dihedral is even both sides, there is more important than the exact amount. Now run a thin bead along edges of the join.

Install stabilizer using notch of how it sets up. Horizontal or somewhat angled...

Temporarily tape the front fuselage and rear together making sure vertical fin and rudder are in place. Make sure fin slot is vertical and horizontal stabilizer is horizontal in relation to wings.

Balance model where shown on the plans. Usually tapping a variety of dimensions, riddles, pennies with marking tape to the nose will balance. Adjust the elevator to absolutely level with bottom of fuselage. Make a light pen or pencil mark under the stabilizer/elevator on the fin for reference. You can lightly tape rudder and elevator to hold straight.

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