



HELPFUL HINT

We are herewith reprinting a hint which we hope will be helpful to you builders. This came originally from EAA Chapter 648 in Boulder, Co.

Scarf joints in wood construction are often difficult to lay out and proportion properly. I've seen several suggestions on how to do it, ranging from elaborate clamp systems on a table saw to "that looks about right" sanding blocks. My local chapter, #648, suggests a simple jig that looks to be helpful if you have access to a router. Build a router guide box at the proper slope (for example 12/1) that's wide enough to insert the wood to be scarfed. Then build a router board that is twice as long as the router guide box is wide. Drill a hole in the center of the router guide board and slip the router bit through the hole, secure the router to the board, and you're ready to lay out the piece to be scarfed. Clamp the board to be scarfed in a position inside the guide box where the edge of the wood rests where the router bit grazes the bottom of the guide box. Now, as you slide the router and its board back and forth, the bit will contact the board being scarfed and provide the proper face. Clean up with sandpaper, and go for the matching scarf on the next board.

HOW TO SET YOUR ENGINE

1. Remove crankshaft
2. Use hole saw, saw 2 holes same size as crankshaft bearings, front & rear. The hole saw will give you the center of the plug.
3. Push plug in each end of engine.
4. Push steel rod thru the holes, this will give you the center of the crankshaft. The rod should be about 6' long.
5. Pull a very tight line from the tail to the nose on centerline of aircraft.
6. Measure the distance between the centerline of the engine and the centerline of aircraft (you need 3 degree offset).
7. Level airplane
8. Use plumb bob. Shim engine to get 3 degrees.

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