

# **A GROUP PROJECT**

## **for CONVERTING RYOBI WEEDWACKER ENGINES and SCRATCH BUILDING BALSA USA “STINGRAYS”**

**(The reports on these building sessions will be made in several installments of which this is the second.)**



**BS is hard at work finishing the last prop hub for the RYOBI engines.**

**Here's a shot of all the finished products BS had to machine for the Ryobi conversions: cut down flywheels, carburetor spacers, and prop hubs. Also shown is one of the stock mufflers converted for RC use.**



**The 4<sup>th</sup> session of the Build Project was a real marathon. It started a 9:00 AM and we didn't close up shop till almost 6:00 PM - everyone was pooped! Our goal was get a fuselage and wing kit cut for the next session since it would be held at CS's shop (BS has out of town guests the following Mon. and couldn't attend). All the materials needed for the next session had to be loaded and transported to CS's place at the close of this session.**

**We cut-off more than we could chew; however, we did get the fuselage kit cut. You wouldn't believe the activity going on during this session. Everyone was busy from start to finish and**

everyone was wearing ear protectors for most of the day. Here's CS overseeing Bob and Dave as they use "See-Temp" sheets to draw out the fuselage parts from the plans.



**Tasks that were tackled during this session included:**

- **Materials take off** (extracting the wood sizes needed from the plans for making a kit)
- **Pattern/Template making** (drawing parts onto "See-Temp", cutting out the part, making a pattern from "masonite")
- **Redesign of the Fire wall former for the Ryobi engine**
- **Roughing out the parts**
- **Cutting and smoothing the parts using the patterns**
- **Making a kit of all the needed parts to build a structure**

Of course, the final task at every session is to do the clean-up session of the shop. Put the hand tools back where they belong.

**Move the big tables/machines back into their storage location, which allows BS to put his cars back into the garage. All the big stuff is on casters so the move around is not too hard. Here's a picture of Dave, back at the table, drawing another former onto a "See-Temp" sheet.**



**That's about it for this installment. I decided to go ahead and release this as an article on a single session as so much ground was covered in this work/play Marathon.**

**Charlie Sides**