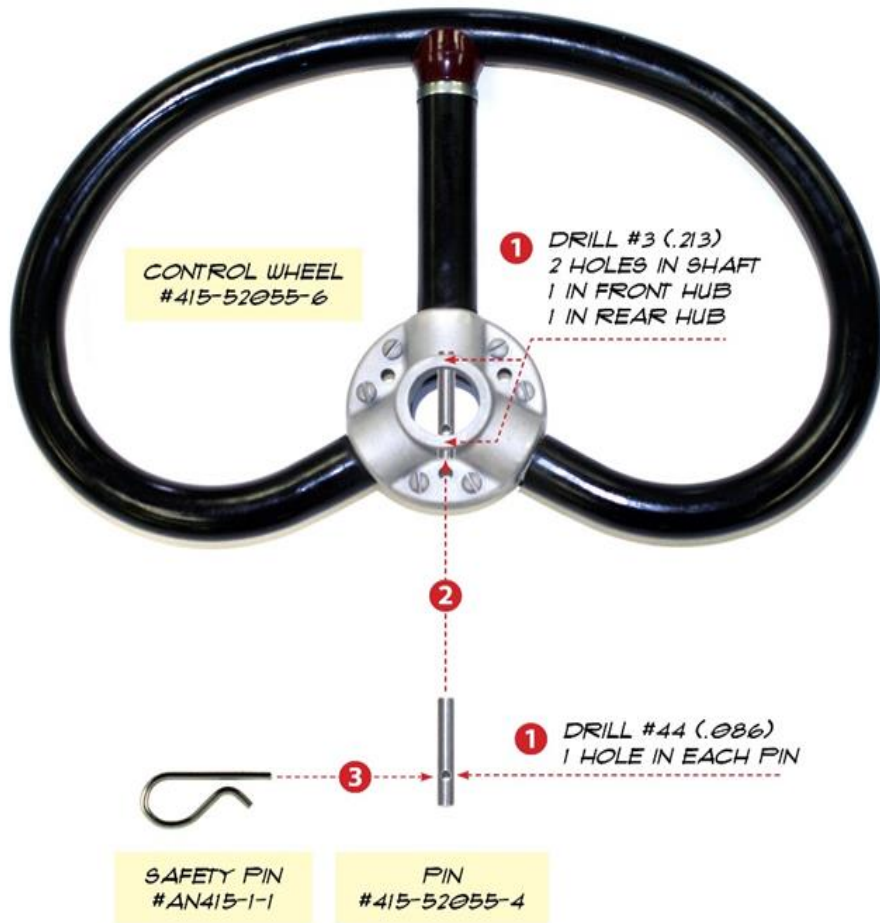


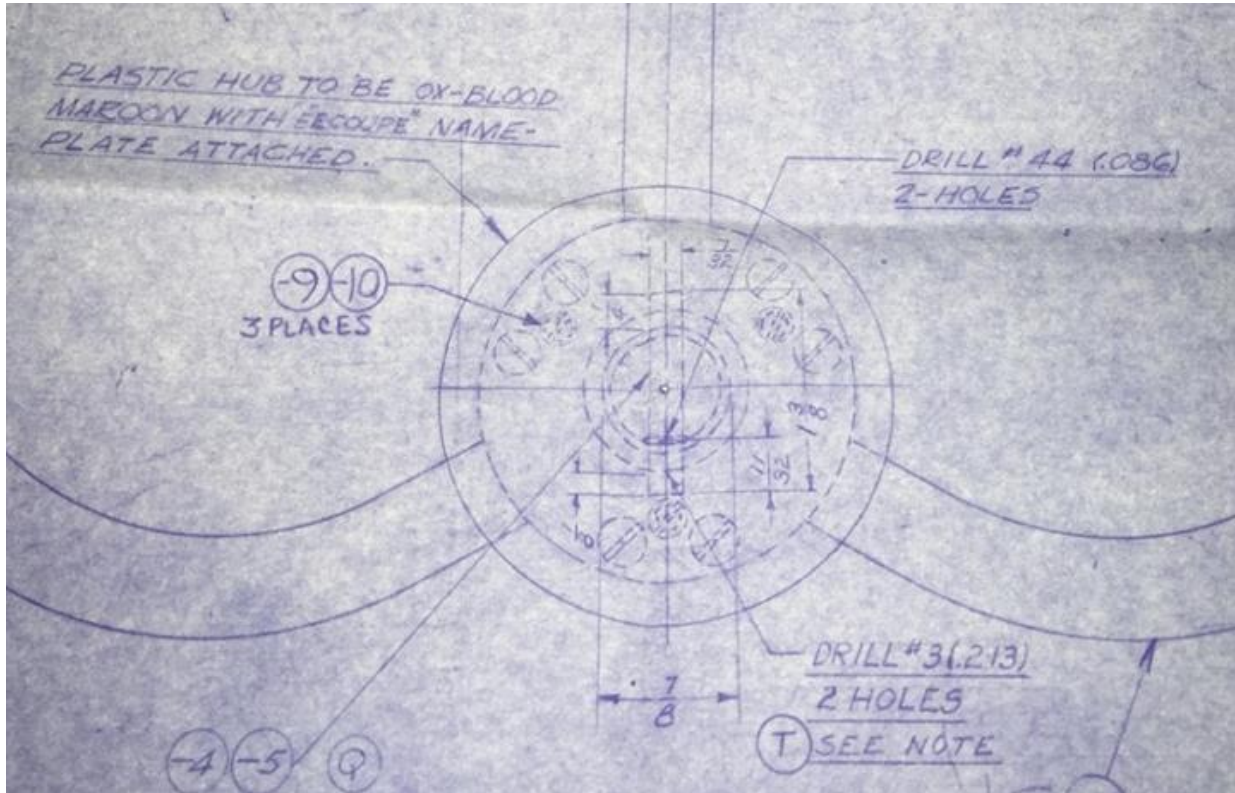
Ercoupe Control Wheel and Shaft Installation



- 1** CAREFULLY DRILL HOLES IN HUB, SHAFT AND PINS
- 2** PRESS PIN INTO .213 HOLES IN HUB AND SHAFT
- 3** INSERT 1 SAFETY PIN INTO .086 HOLE IN BOTH PINS

The photo above is showing the control wheel (415-52055-6) and cross pin (415-52055-4) and the safety pin (AN415-1-1).

THIS CONTROL WHEEL INSTALLATION SHOULD BE DONE BY A LISCENED A&P AND BEST ACCOMPLICHED IN A FACILITY WITH A MACHINE SHOP. THIS IS A PROCEDURE THAT IS NOT PERMITTED AS OWNER/OPERATOR MAINTENANCE PERMITTED BY 14 CFR 43.3(g) or 14 CFR 43, APPENDIX A (4)(c).



Above is a copy of the blueprint section of the 415-52055.
This drawing details the parts to install the control wheel to the shaft.

The print shows that the (-4) pin is going in from the bottom on the control wheel going up through the shaft and out the top to hold the wheel in place. This is done on both front and rear of the wheel. The blue print does not call out where to drill the holes for the -4 pin. Once the pin has been drilled you will need to mark on the inside of the shaft a place to precision drill a hole to put the (-5) safety pin. You would need to drill the hole on the -4 pin with a #44 drill bit (.086") to install the -5 safety pin.

Installation info (new shafts not installed on the u-joint)

1. Mark the control wheel on the bottom for drilling. (you will need to mark and drill this carefully to not take remove too much or any material from the top center post of the hub)
2. Drill #3 .213" holes from the bottom of the wheel through the hub and control shaft both 1 in front and 1 in back of the wheel hub. (pins going vertical)
3. Mark the -4 pin where to have the .086" hole drilled for the safety pin
4. You will need a drill press to drill the pin for the .086" hole

5. Once you have the pin drilled you will need to press fit the -4 pin into the wheel hub and through the shaft and secure with the -5 safety pin.
(repeat with both pins)