

a mixer bellcrank which consists of two small bellcranks mounted on the ends of one main bellcrank. The flap handle controls the inboard end of each of these small bellcranks. The aileron control stick controls one end of the main bellcrank. Push-pull tubes with universal joints on each end, plus a swivel on one end, run from the outboard ends of the small bellcranks to the flaperons. The geometry of this arrangement is such that when the wings swing back against the fuselage, the flaperons automatically rotate up 90° without disconnecting any controls. This control system is what makes the AVID FLYER so easily transportable.

### TRANSPORTABLE

One of the advantages of the AVID FLYER is its wing folding mechanism and structural strength allowing it to be towable on its own tires from the airport to your garage or carport. This eliminates problems of tie-down fees, hangar rental and weather exposure. The width of the fuselage and chord of the wings were calculated to make the airplane under eight feet wide with the wings folded, so it could be stored in a home garage.

To fold the wings, remove the turtledeck cover which is secured with camlocks, unlock and remove the front spar attach pins, and swing the wings one at a time back to the tail. The flaperons rotate 90° as the wings are moved back. The tremendous safety feature designed into this mechanism is that there are no controls to disconnect. The wings are secured by a brace tube attached to the vertical fin, swung out and pinned to the rear wing strut attach fitting. The turtledeck cover is easily removed and can be stored inside the cockpit when the wings are folded.

Before folding the wings, attach the tow bar to your airplane and car trailer hitch. The tow bar attaches to the fuselage in two places just ahead of the tail wheel. The tow bar is available as an option. In just 3-5 minutes your airplane is ready for towing.

We recommend that you trailer your AVID FLYER if you want to transport it long distances. Always install wing towing supports when the wings are folded.

### POWERPLANT

Our standard power package for the AVID FLYER is the Rotax 582, liquid-cooled, 65hp engine, 2.58:1 Rotax gear reduction, bolt-on engine mount, dual Bing slide carburetor muffler/exhaust system, recoil starter, 71" wood propeller, radiator, etc.

Liquid-cooled engines run a lot quieter and get more horsepower for fuel consumption than air-cooled 2-cycle engines. High RPM, two-cycle engines put out twice the horsepower per pound of a four-cycle engine. They are much less expensive to manufacture and maintain per horsepower, because they have lighter, smaller and fewer moving parts.

The Rotax 582 is very easy to start and is equipped with a Bosch-flywheel magneto generator that produces 140 watts of 12 volt current for navigation lights, radio or charging a battery.