



REPUBLIC AVIATION CORPORATION
FARMINGDALE, LONG ISLAND, NEW YORK
SERVICE DEPARTMENT

April 20, 1946

NO. 1

PROPELLERS

This is the first issue of Republic SeaBee Service News which will be published periodically for all Seabee distributors and dealers to keep them informed of SeaBee maintenance, service and operation information.

Standard Prop:

The standard propeller with which your Seabee is now equipped is an Aeromatic ground-adjustable type manufactured by Koppers Co. Inc. As delivered, the blades are adjusted at the angle, which provides best take-off and high-speed performance.

The blades of the Aeromatic propeller are of laminated wood construction with a plastic coating that resists mold, water and penetration. Metal leading edges and tips are provided. A positive locking clamp secures the blades in their proper position.

Watch for more information of the effect of changes in blade angle of the Aeromatic propeller on Seabee performance in a later issue of SeaBee Service News.

Controllable-Reversible prop:

Now available as an optional installation on the Seabee is a controllable pitch, fully reversible prop designed and manufactured by Hartzell Propeller Co. This propeller is recommended for those who desire extra performance plus the pleasure of operation with reversible pitch.

Its controllable pitch affords a wide adjustment for maximum BMEP engine control settings which gives notable advantages in fuel economy, speed, best climb and long engine life.

The reversible pitch feature adds considerable maneuverability for ground and water operation, such as backing away from a gas pump or easing to a smooth stop at a dock.

The blades of the Hartzell Propeller are a plastic bonded type of thin airfoil section, which minimize propeller tip losses. The angle or the pitch of the blade can be changed by a push-pull control located on the pilot's panel. This control which operates a valve admitting pressure to an engine-oil operated piston in the propeller hub is moved from its neutral position until the desired setting is reached; then the pilot merely returns the control to its neutral position and the selected setting is retained.

Reversible pitch selection during open throttle operation is prohibited by a safety device and stops as provided for permissible high and low pitch settings.

Just as soon as available you will receive the RPM manifold pressure correlation's for optimum blade setting necessary for operation of the Hartzell propeller installation.

Wing Platform

Easy and safe access to the Seabee power plant is assured by use of the Wing platform sketched below. We found this platform essential in preventing the denting or scratching of the wings or flaps in our maintenance operations, it is extensively used as a wing protector by our factory as well as the hangars when working around the engine.

We recommend that you build several of these platforms in preparation for your Seabee operations. The design is simple and inexpensive. Plywood, pine, felt and paint in colors of your choice are the only materials required.

Your next issue of Seabee Service News will have plans for an easily built engine access stand, which will further streamline your maintenance facilities.

- 1) 12 x 60 x 1 plywood – 2 pcs.
- 2) 36 x 61 x 1/2 plywood – 1 pc.
- 3) 1 x 2 x 33 1/2 wood – 8 pcs.
- 4) 1 x 4 x 33 1/2 wood – 2 pcs.
- 5) 1/8 x 2 felt (*to be glued) – 5 ft.
- 6) 1/8 x 1 felt – 10 ft.

*Use glue and screws as needed.

