



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

April 14, 1947

No. 21

SPLIT IGNITION SYSTEM

As a further step in the evolution of the Seabee, Republic announces important changes in the ignition system effective on all Seabees delivered with engine No. 23501 and up.

A split ignition system now operates one bank of spark plugs off a Bendix Scintilla Magneto (replacing the Eisemann formerly used) and the other bank of spark plugs off an Autolite coil and distributor fed by the battery.

With this system the magneto is set permanently for 32 degrees advance but the distributor is set for 2 degrees advance when starting and, by centrifugal weights, automatically goes to 32 degrees advance so that full advance is obtained at approximately 2100 R.P.M.

Better starting, lower idling speed and increased safety are among the advantages secured by the new system.

As the magneto has no impulse coil, the engine starts on the battery. This results in a hotter starting spark and consequently easier starting. Also, a higher retard is obtained on starting which is an advantage. After starting, the engine runs on magneto through idle speed until the magneto and distributor synchronize at 32 degrees advance. If, due to electrical system trouble, the battery circuit must be switched off, the distributor will run off the generator above idle speeds.

W. H. Ehmman
Service Manager