

Operating Tips . . .

FOR BETTER NAVION FLYING

VOL. 3 NO. 4

Published by the Field Service Department of the Ryan Aeronautical Company, San Diego, to help those who own, operate, and service Navion airplanes obtain the full utility and satisfaction of which the Navion is capable.

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FACTORS THAT CONTRIBUTE TO SPARK PLUG FOULING

Laboratory tests conducted by a major oil company have revealed that the following six operating variables contribute to spark plug fouling in aircraft engines using today's aviation fuels:

1. Excessively rich mixture at idle speed
2. Extremely lean mixture at cruise
3. Abnormally low cylinder temperatures

4. Large spark plug gap
5. Abnormally low carburetor air temperature
6. Excessive oil pumping

It has also been found that airplanes engaged in types of operation requiring frequent landings and take-offs are more susceptible to spark plug fouling. This is probably due to the increase in engine idle time usually connected with this type of operation.

CONSIDER THE NEW OWNER

The owner who has his Navion for sale now or who has recently sold his plane can do the new owner a definite service by reporting to the Field Service Department at the Ryan Aeronautical Company, the new owner's name and address. This will enable us to promptly put the new owner on our mailing list to receive, all service publications issued pertinent to his plane. We are constantly discovering cases where the previous owner has been carried on our mailing list for months while the new owner was unknown to us and was not re-

ceiving all information due him. In most cases the bulletins mailed to the previous owner were of no interest or use to him, but would have been of distinct value to the new owner in the operation and servicing of his Navion. Please drop us a line if you transfer ownership of your plane - - you owe it to that new owner. It is also equally as important that you pass onto him the manuals and service bulletins you received from the factory during your tenure of ownership.

ARE YOU AN "OPERATING TIPS" FAN?

If your answer is yes, to the question contained in the title of this article, then we want to hear from you. We have from time to time solicited the help of you readers in our efforts to keep this publication interesting and informative, but the response to these appeals has been meagre. As time goes on, the store of interesting facts and figures here at the factory becomes less and less yet we are sure there are many innovations in use on a great number of the Navions in the field. We are asking you to share these ideas with

other Navion owners. Send us a brief description of your pet scheme or gadget and we'll do our best to see that it gets published. If you don't have any specific thing to write us about, please drop us a line to let us know the type subjects you would like to see covered in future issues of "Operating Tips". When writing us, address your letters to the Field Service Department, Ryan Aeronautical Company, San Diego, California.

HERE'S A LABOR SAVER

Navion owner Benjamin King in Washington, D. C. writes that on the few occasions it has been necessary to remove the front seats from his Navion for installation of radio, instruments, etc., he has noticed that the mechanic had one heck of a time getting them back in. He found out why when he tried to do the job himself.

It was because the metal strips on which the seats ride had a tendency to spring upward at the forward ends and prevent the forward brackets on the seat from sliding into place on the rail.

Here's how this particular owner licked this problem - he countersunk the holes for the stop bolts at the for-

ward end of the rails and drilled a hole in the wood block beneath them. Then, he inserted a long flatheaded machine screw in the holes and tightened the strips down. The seat will then slide onto the rails very easily and after it is on, he removes the flat headed screws and installs the original stop bolts.

The above is a good example of how owners can contribute to the continuing success of this publication - let's pull together to give everyone maximum utilization and satisfaction from their Navion. If you'll do this, you're almost certain to get a good idea from someone in return for the one you submit - try it and see.

