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THE OREND A TAKES  
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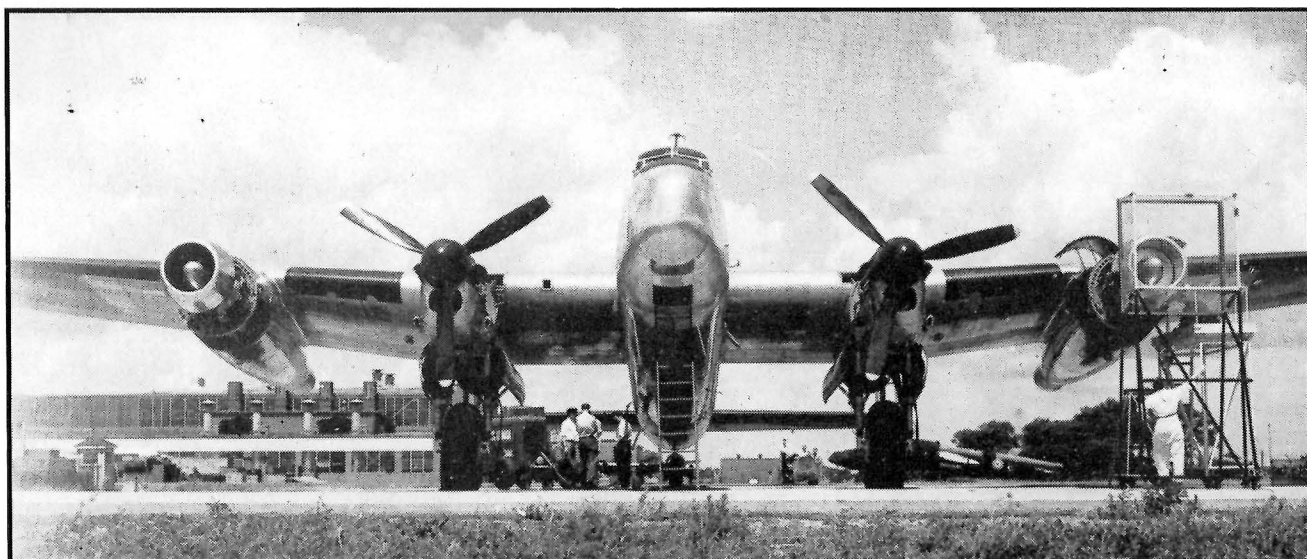
(Page 7)

UP AND DOWN WITH  
CIVIL AVIATION

(Page 17)

SEPTEMBER  
1950

TORONTO 2, CANADA



### A JETBLOWN LANCASTER

# The Orenda Takes to the Air

The Avro Orenda was taken into the air for the first time on July 13 and since then has been undergoing an intensive program of flight testing. Believed to be one of the most powerful turbojet engines in the world, the Orenda has already run for many hundreds of hours on Avro test beds . . . the results of these ground tests indicating that not only is the engine one of the most powerful, but also one of the more efficient and reliable units of its type to be designed and built.

For the flight tests two Orendas have been mounted in a converted Lancaster in the place of the two outboard Merlins. The aircraft is able to sustain flight on either the two Merlins alone or the Orendas alone. The flying test bed conversion was done by Avro Canada at its Malton plant primarily for test flights around the Toronto area; however, provision has been made for possible long range operation into northern air bases for cold weather testing.

The modifications to the Lancaster

consist of the removal of fore and aft gun turrets and the substitution of simple fairings. The aircraft has in addition been winterized. Testing facilities comprise a test observer's instrument panel at the navigator's station in the flight compartment, automatic observers in the rear of the fuselage, suitable control and instrumentation leads from the test engines to the panels and auto-observers. These last will be provided with equipment for photographic observation of engine performance instruments.

