

July 7, 1965

TO: Memo. Distribution

FROM: B. Lewis

SUBJECT: AEROBUS ENGINE OVERSPEED WARNING SYSTEM.

The purpose of this overspeed warning system is to warn the driver of excessive engine speed in an over-run condition (such as during down hill operation when the wheels may begin to drive the engine) and thus enable steps to be taken to correct the condition.

The system consists of a red jeweled warning lamp mounted in the cab and a vacuum sensing switch in the spinner governor vacuum line. These components operate in conjunction with the Engine Governor (Vacuum Spinner Type).

In operation, when the engine reaches its governed speed (4000 rpm with standard transmission) the centrifugally operated spinner valve will close, thus applying a vacuum on the carburetor actuator diaphragm which in turn acts to close the throttle valves. The overspeed warning system vacuum switch, being in the spinner governor vacuum line, also senses the vacuum applied when governed speed is reached and acts to close the circuit to the battery thus lighting the red warning lamp.

A quick check of the warning lamp bulb and wiring can be made with the ignition switch "ON" but the engine "OFF" by pulling the white wire from its terminal on the vacuum sensing switch (located adjacent to the distributor) and grounding it to the engine. If the bulb and the wiring are OK the red lamp on the dash will light.

