

WINDSHIELD ANTI-ICE - DESCRIPTION AND OPERATION

1. General

- A. An optional heated anti-ice panel is provided to prevent the formation of ice on the windshield. The system consists of a removable electrically heated glass panel mounted to the base of the windshield in front of the pilot.

2. Description and Operation

- A. The sides of the electrically heated glass panel are supported by rubber covered frames that hold the panel off the windshield. The lower mounting bracket is hinged and hinges are spring-loaded so panel may be easily removed for storage. The system is controlled by a three-position toggle switch located on the left switch control panel. When the switch is placed in the AUTO position, electrical current flows to the anti-ice panel and is allowed to heat to a maximum of 136°F. The controller then opens the relay in the circuit which cuts off current to the controller and allows the anti-ice panel to cool down to a minimum of 129°F. The controller will then close the relay which starts the heating cycle over again. Therefore, when the switch is in the AUTO position, the anti-ice panel cycles on and off to assist in preventing ice formation on the windshield panel. In the event of a malfunction in the system control circuitry, the switch can be held in the momentary MANUAL position to achieve windshield anti-icing. A light in the annunciator panel, illuminates to indicate the system is operating. The system is protected by two pull-off type circuit breakers, a control circuit breaker, labeled W/S ANTI-ICE CONT and a heater circuit breaker, labeled W/S ANTI-ICE. Circuit breakers are installed in the left sidewall switch and circuit breaker panel.