

Beechcraft



Hawker

TEXTRON AVIATION

525 Communiqué

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ATA 34 – Loss of GPS Signal

Textron Aviation has received reports of operators losing GPS signal while the aircraft is on the ground taxiing, parked on the ramp, or kept in a hanger. A loss of GPS signal will affect operations of multiple systems including; transponder operation, ADS-B operation, FMS navigation, FMS operation, etc. Depending on the avionics suite installed in the aircraft, different annunciations will be displayed when GPS signal is lost. For example, a loss of GPS signal in a Collins Aerospace equipped airplane will usually present itself as a transponder failure, while a Garmin equipped airplane will present GPS loss as an ADS-B failure.

It has been determined that these signal losses are usually caused by local interference. This interference may come from (1) hangers and other structures located in the area, (2) local GPS repeaters, or (3) GPS jamming.

Should you experience an issue with any of these systems, position the aircraft at least 100 feet away from any hanger, structure, repeaters, etc. Request any hanger doors in close proximity be closed if possible, to prevent a repeater from interfering with the GPS signal.

You may also notice that while taxiing past certain facilities or areas of an airport, you may receive a message or fault associated with a loss of GPS signals. Lots of electronic devices emit frequencies that are stronger than GPS signals and can overwhelm the relatively low power of a GPS signal. These devices can be anything from automatic door openers, security systems or many other electronic devices. The FCC regulates the output frequencies and power levels of these systems, but they can interfere with a GPS signal when in close proximity. While in flight these sources of interference are far too weak to cause an issue.

If you have additional questions or need further support, please contact your Field Service Representative or the Textron Aviation 525 Technical Support team at 1.855.832.9831, 1.316.517.7785, or team525@txtav.com.