



TCAS-201: Frequently Asked Questions & Answers

Q: I cannot display either an ATCRBS or Mode S intruder?

A: Check List:

- 1. Where possible, refer to airframe manufacturer's system test procedure.
- 2. Ensure weight on wheels discrete is overridden, (i.e. system is airborne.)
- 3. Ensure barometric system (air data computer) is pressurized to test altitude (i.e. 10K ft.)
- 4. Ensure Radio Altimeter is above 2500 ft. (i.e. use Radio Altimeter test set or isolate TX antenna(s) with radar absorbent foam.)
- 5. If testing in a hangar, elevate test antenna on gantry or cherry picker to be at same height as or above top TCAS directional antenna.
- 6. On test set ensure intruder simulation has range rate applied (i.e. 350 knots)
- 7. On test set ensure Altitude Reporting is set to ON in setup menu #1.
- 8. On test set ensure Mode S discrete address (HEX) in Mode S Reply Test screen is valid (i.e. not all F's or 0's.)
- 9. On test set ensure altitude is 1000 ft. above aircraft altitude for testing top antenna and 1000 ft. below aircraft altitude for testing bottom antenna.

Q: I cannot display a Mode S intruder?

A: Check that squitters are turned on in the setup menu #1, and a valid Mode S discrete address is entered in the Mode S Reply Test screen.

Q: Can I test TCAS 1 systems with the TCAS-201?

A: Yes but you will need to send your test set to an Authorized Service Center and request that service bulletin 3 is incorporated (software version 3.01).

Q: The TCAS-201 intruder appears to be at the wrong bearing or is displayed intermittently? **A:** This is more likely to happen when testing in the hangar and is due to multi-path reflections. If a problem exists, conduct testing outside hangar with the aircraft positioned away from buildings and gantries.

Q: Do I need a software update to my TCAS-201 to test change 7 TCAS II systems? **A:** No software update is necessary.

Q: My local ATC complains every time I test TCAS. They see my aircraft at altitude I am using for testing?

A: Use the antenna shield supplied with the TCAS-201 and ATC-601 to shield both upper and lower Mode S transponder antennas. The 20 dB isolation that the shield provides prevents ATC from seeing any transponder replies that may contain altitude information.

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