



# Atlanta, Georgia

Georgia World Congress Center

April 8-11 2019



COLLEGE OF TECH OPS

The FAA's Next Gen system will affect all aspects of the aviation industry from General Aviation, Business, Commercial and Aerospace Maintenance Training Schools. These AMC events need to cover a broad spectrum of aviation professionals and students attending the competition. The Avionics ADS-B testing event would be a very useful competition to not only raise awareness but, to help prepare the Technicians with what they will be challenged with in the field.



## Competition Testing Panels



### Concept:

Electronic Flight Instrument panel set-up with GPS and Encoder simulators to represent a working modern flightdeck.

Technicians will be task with using modern test equipment, Aeroflex IFR 6000 to validate proper operation and reporting to comply with the upcoming 2020 regulations for all aircraft operating in regulated airspace.

The technicians will have to set-up the mock aircraft to be tested and demonstrate proper testing procedures and document results for completion.

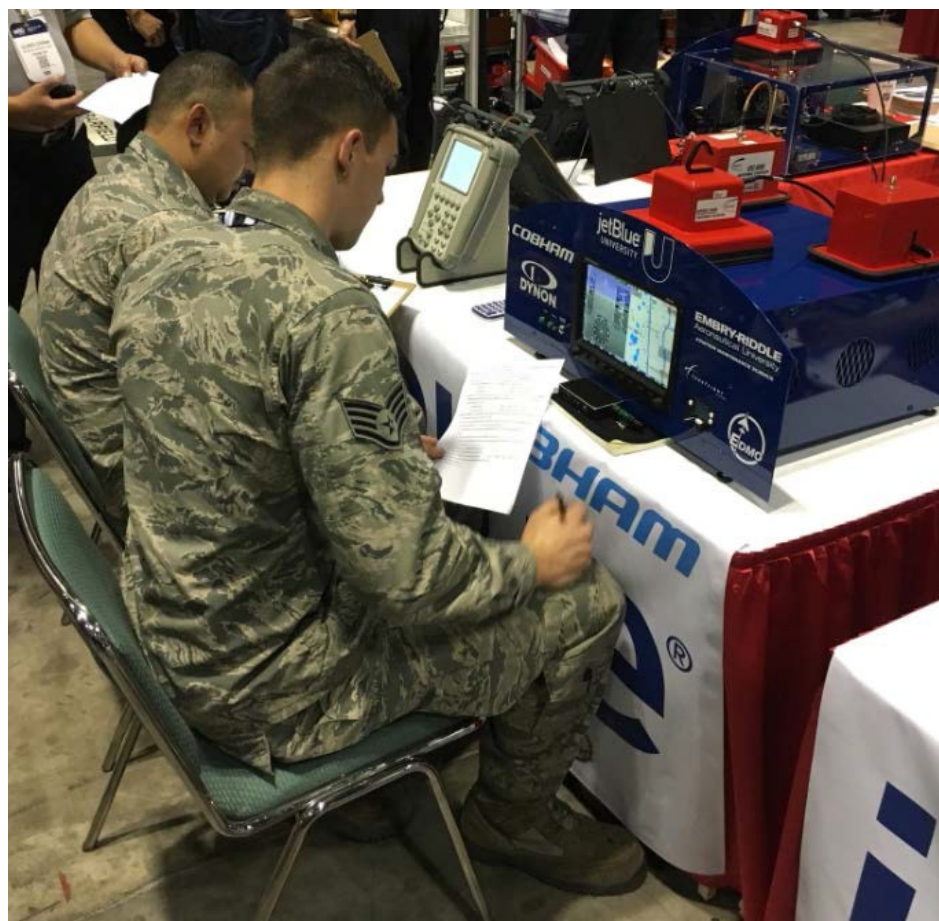
Example: A/C Identity, Altitude and Position



# Event Criteria

The Technician will fill out the task card with the following reported information from the IFR 6000

ID:JBU1724  
 LAT:28.27  
 LON:-81.50  
 HDG:53  
 PALT:10125  
 SP:311



Tally No: **A/C: FOR REFERENCE ONLY** jetBlue

|                              |                          |                       |                        |
|------------------------------|--------------------------|-----------------------|------------------------|
| Task Card No.<br>A3412116-01 | Description<br>ADS-B OUT | EC No.<br>A3412116-01 |                        |
| Station                      | Work Order No.           | Fleet                 |                        |
| Date                         | Regulatory Ref.          | Area                  | Revision<br>01/18/2018 |

**HAVE YOU INVENTORIED YOUR PARTS & TOOLS?**

|               |                    |            |          |
|---------------|--------------------|------------|----------|
| Zone          | Classification     |            |          |
| 131, 132      | ALTERATION / MAJOR |            |          |
| Access Panels |                    |            |          |
| 131CW, 131DW  |                    |            |          |
| Component     | Description        | Serial No. | Position |

Note to Technician / QC:

**Part/Tools Required to Accomplish Task:**

| Part Number   | Description  | Quantity |
|---------------|--|----------|
| 7514081-911   | ANTENNA, TCAS DIRECTIONAL                          | 2        |
| 7517800-10310 | ATC-TRANSPONDER, XS-950 ATDL (ADS-B EQUIPPED ONLY) | 2        |
| 8007277-401   | KIT - ADS-B OUT 80VU - SUBKIT A                    | 1        |
| 8007277-402   | KIT - ADS-B OUT 80VU - SUBKIT B                    | 1        |
| 9003500-10905 | TCAS - COMPUTER 3000 VER 7.1 (ADSB-OUT A/C ONLY)   | 1        |
| NAS1133E12    | SCREW,MACHINE-PAN HD, CLOS TOL                     | 8        |
| 09-008D       | SEALANT - POLYSULFIDE                              | 2        |
| 09-016        | POLYSULFIDE SEALANT - GENERAL PURPOSE FILLET       | 2        |
| DMC519        | KIT ELECTRICAL SERVICE TOOL                        | 1        |
| IFR8000       | TEST UNIT - ATC/TCAS/ADS-B                         | 1        |

| Item | Work Instructions   | Technician | Checked By |
|------|---|------------|------------|
| 1    | NOTES:<br>1. Accomplish the work instructions in accordance with the attached ACSS Engineering order 8007277-101 Rev E. Sign off accomplishment of the Engineering order workscope per the following worksteps below.<br>2. Eight (8) ea, Top TCAS Antenna mounting screws P/N NAS1133E12 are intended only for N861JB and onwards (FSN 0861 and up). |            |            |
| 2    | Accomplish work steps in accordance with attached ACSS Engineering order 8007277-101 Task 3.3.1 Preparation Steps 1 through 5.  |            |            |
| 3    | Accomplish work steps in accordance with attached ACSS Engineering order 8007277-101 Task 3.3.2 Remove ADIRU's 1 and 2 Step 6.  |            |            |

Technician / QC Notes:

**HAVE YOU INVENTORIED YOUR PARTS & TOOLS?**

Task Card:  A3412116-01

ALL DISCREPANCIES FOUND WHILE PERFORMING THIS TASK CARD MUST BE DOCUMENTED ON A NON-ROUTINE PER GMM 4C AND 4D

## Aeroflex IFR 6000



## Aeroflex GPSG-1000 Simulator

GPSG-1000 Portable Satellite Simulator



Versions, Options and Accessories  
Order Description Number

87339 GPSG-1000 12 Satellite Simulator  
NSN: 6625-01-616-2712

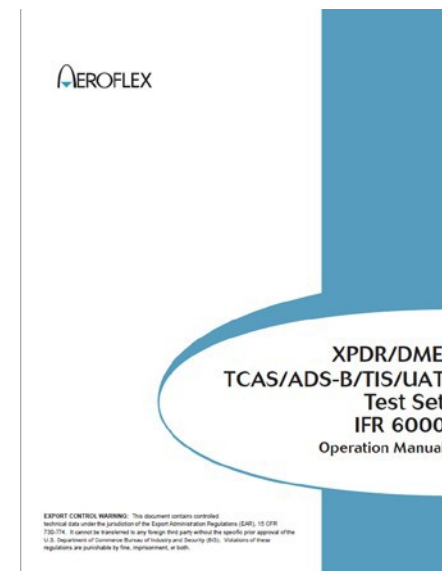
140607 GPSGOPT3ADS-B Integrity Test  
Option

Aeroflex IFR 6000



IFR Operation Manual

<http://ats.aeroflex.com/avionics-test-products/identification-products/ifr-6000-flightline-test-set>



Interactive Training

[http://ats.aeroflex.com/index.php?option=com\\_k2&view=item&layout=item&id=150](http://ats.aeroflex.com/index.php?option=com_k2&view=item&layout=item&id=150)



Aeroflex GPSG-1000 Portable GPS  
Position Simulator

<http://ats.aeroflex.com/avionics-test-products/nav-comm-products/gpsg-1000-portable-satellite-simulator>

