RVSM Altitude Indication Flight Evaluation

(GEX Aircraft with Max Mach in RVSM of 0.86 M: AC 9002-9158)

Notes:

- ð Always fly with Autopilot (AP) coupled left (arrows on PFD FDA and GP CPL light pointing left).
- ð Select ADC source on the Pilot PFD and Transponder in accordance with the test point Pilot PFD ADC X/ATC X configuration instructions. Adjust altitude and airspeed on the Pilot PFD as required by the configuration table for each test point.
- ð Altitude and speed should be maintained at least 5 minutes for each test point at the same heading. If ATC mandates a turn during data collection, start the test point over once established on a steady heading.
- ð Press the Pilot Even Marker (PEM) at the start (str) and stop (stp) of each test point (press minimum of 2 seconds). Record the UTC time (HH:MM).
- ð Follow AFM CSP 700-1A, Supplement 07-08: RVSM Operations.
- ð On Global aircraft with the Honeywell avionics suite, the FDR/QAR records the air data parameters (Pressure Altitude, Indicated Airspeed, TAT) as selected on the Pilot PFD. In a normal aircraft configuration, this represents data from ADC 1. Selecting ADC 2 on the Pilot PFD for some of the test points below allows the recording of ADC 2 parameters on the FDR/QAR.

Date of the flight: D D / M M / 2 0 Y Y

FL310/0.80 M/Pilot PFD ADC 1/ATC 1

1. Verify ADC 1 is selected on the pilot PFD
2. Verify ADC 2 is selected on the copilot PFD
3. Select ATC 1 for use and set to TA/RA
4. Establish FL310 at 0.80 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 2 speed and altitude and standby speed and altitude
8. Select ADC 3 on copilot PFD
9. Record Copilot PFD ADC 3 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1	0.800	31000	(str)
2			
3			
Standby			(stp)

FL310/0.80 M/Pilot PFD ADC 2/ATC 2

1. Select ADC 2 on the pilot PFD
2. Verify ADC 3 is selected on the copilot PFD
3. Select ATC 2 for use and set to TA/RA
4. Establish FL310 at 0.80 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 3 speed and altitude and standby speed and altitude
8. Select ADC 1 on copilot PFD
9. Record copilot PFD ADC 1 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1			
2	0.800	31000	(str)
3			
Standby			(stp)

FL310/0.86 M/Pilot PFD ADC 2/ATC 2

1. Verify ADC 2 on the pilot PFD
2. Verify ADC 1 is selected on the copilot PFD
3. Verify ATC 2 is selected for use and set to TA/RA
4. Establish FL310 at 0.86 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 1 speed and altitude and standby speed and altitude
8. Select ADC 3 on copilot PFD
9. Record copilot PFD ADC 3 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1			
2	0.860	31000	(str)
3			
Standby			(stp)

FL310/0.86 M/Pilot PFD ADC 1/ATC 1

1. Select ADC 1 on the pilot PFD
2. Verify ADC 3 is selected on the copilot PFD
3. Select ATC 1 for use and set to TA/RA
4. Establish FL310 at 0.86 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 3 speed and altitude and standby speed and altitude
8. Select ADC 2 on copilot PFD
9. Record copilot PFD ADC 2 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1	0.860	31000	(str)
2			
3			
Standby			(stp)

FL410/0.80 M/Pilot PFD ADC 1/ATC 1

1. Verify ADC 1 on the pilot PFD
2. Verify ADC 2 is selected on the copilot PFD
3. Select ATC 1 for use and set to TA/RA
4. Establish FL410 at 0.80 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 2 speed and altitude and standby speed and altitude
8. Select ADC 3 on copilot PFD
9. Record copilot PFD ADC 3 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1	0.800	41000	(str)
2			
3			
Standby			(stp)

FL410/0.80 M/Pilot PFD ADC 2/ATC 2

1. Select ADC 2 on the pilot PFD
2. Verify ADC 3 is selected on the copilot PFD
3. Select ATC 2 for use and set to TA/RA
4. Establish FL410 at 0.80 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 3 speed and altitude and standby speed and altitude
8. Select ADC 1 on copilot PFD
9. Record copilot PFD ADC 1 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1			
2	0.800	41000	(str)
3			
Standby			(stp)

FL410/0.86 M/Pilot PFD ADC 2/ATC 2

1. Verify ADC 2 on the pilot PFD
2. Verify ADC 1 is selected on the copilot PFD
3. Verify ATC 2 is selected for use and set to TA/RA
4. Establish FL410 at 0.86 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 1 speed and altitude and standby speed and altitude
8. Select ADC 3 on copilot PFD
9. Record copilot PFD ADC 3 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1			
2	0.860	41000	(str)
3			
Standby			(stp)

FL410/0.86 M/Pilot PFD ADC 1/ATC 1

1. Select ADC 1 on the pilot PFD
2. Verify ADC 3 is selected on the copilot PFD
3. Select ATC 1 for use and set to TA/RA
4. Establish FL410 at 0.86 M (on pilot PFD)
5. Verify AP is coupled left and engaged
6. Press PEM and record UTC time (str) HH:MM
7. Record copilot PFD ADC 3 speed and altitude and standby speed and altitude
8. Select ADC 2 on copilot PFD
9. Record copilot PFD ADC 2 speed and altitude
10. Press PEM and record UTC time to indicate end of the test point (stp) HH:MM

ADC	Speed	Altitude	PEM / Time
1	0.860	41000	(str)
2			
3			
Standby			(stp)