

## RVSM OPERATIONS

### MINIMUM EQUIPMENT REQUIREMENTS

- 2 Independent Primary Altimetry Systems
- Altitude Alerting System
- Altitude Hold System

### PREFLIGHT CHECKLIST

- Defects in required equipment — corrected
- Static sources — not clogged
- Surrounding skin — checked for dents, ice, and chipping or bubbling paint
- Pitot tubes — checked for bends or clogs
- All altimeters — set to local setting
- Each altimeter — reading within 75 feet of field elevation
- Two primary altimeters — reading within Airplane Flight Manual limits

### IN-FLIGHT CHECKLIST

- Altitude hold — working properly
- Altitude alerter — working properly
- Primary altimeters — reading within 200 feet of each other
- At transition altitude — all altimeters set to 29.92
- Level off — overshoot no more than 150 feet
- Altimeters — cross-check at beginning of cruise flight and hourly — record at least initial cross-check

### RVSM NUMBERS

72 hours	Time to submit Flight Level Deviation Report
75 feet	Maximum difference between altimeters and field elevation
150 feet	Maximum assigned flight level overshoot
200 feet	Maximum difference between primary altimeter readings
245 feet	Maximum Altimetry System Error
300 feet	Maximum Assigned Altitude Deviation or Total Vertical Error
1,000 fpm	Recommended maximum rate of climb or descent, last 1,000 feet
1,000 feet	RVSM vertical separation
2,000 feet	Vertical separation of RVSM aircraft from non-RVSM aircraft

## IN-FLIGHT CONTINGENCY PROCEDURES

### Problems Maintaining Altitude Due to Severe Turbulence or Mountain Wave Activity

- Severe turbulence — Tell ATC you are unable RVSM — ATC will apply vectors for separation
- Mountain wave activity with altitude deviations of:
  - 200 feet or more — Tell ATC you are unable RVSM — ATC will apply vectors for separation
  - Less than 200 feet — You can still maintain RVSM — You may request vectors for separation

### Failure of the Altitude Hold, the Altitude Alerting System, or All Primary Altimeters

- Notify ATC of the failure
- Repeat notification to ATC on initial contact on each new frequency
- ATC will apply 2,000-foot vertical separation or appropriate horizontal separation
- Request clearance to leave RVSM airspace unless your operational situation requires otherwise

### Failure of One Primary Altimetry System

- Cross-check the remaining altimeter with the standby altimeter
- Couple the functioning system to your altitude hold
- Notify ATC you are operating with only one primary altimeter
- RVSM can still be applied
- If unable to confirm the accuracy of the remaining altimeter, follow the procedure for Failure of All Primary Altimeters

### Indications on Primary Altimetry Systems Differ by More Than 200 Feet

#### Able to determine defective system

- Follow the procedure for Failure of One Primary Altimetry System

#### Unable to determine defective system

- Follow the procedure for Failure of All Primary Altimeters

