

# AIRWORTHINESS DIRECTIVE



AIR SAFETY DIVISION  
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DEPARTMENT OF AVIATION  
THAILAND

DOA AD. NO. 133/2538

The Department of Aviation has classified compliance with the document specified below as mandatory for aircraft operated on the Thai Register of Civil Aircraft with consideration of the prescribed effective date and special conditions.

EFFECTIVE DATE : JANUARY 1, 1996

APPLIES TO : ALL AIRCRAFT

DOCUMENT IDENTIFICATION : -

ISSUED BY : -

SPECIAL CONDITIONS : NONE

SUBJECT : TO ENSURE THE INTEGRITY AND ACCURACY OF ALTIMETERS, AIRSPEED INDICATORS, PITOT AND STATIC SYSTEMS, ATC TRANSPONDERS, COMPASS SYSTEMS AND FUEL QUANTITY GAUGES INSTALLED IN AIRCRAFT, ACCOMPLISH THE FOLLOWING :

A. ALTIMETER - INSPECT AND CALIBRATE IN ACCORDANCE WITH THE REQUIREMENTS OF USA FEDERAL AVIATION REGULATIONS PART 43 APPENDIX E AT INTERVALS NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN DOA APPROVED MAINTENANCE SCHEDULE.

B. AIRSPEED INDICATOR - INSPECT AND CALIBRATE IN ACCORDANCE WITH THE AIRCRAFT OR AIRCRAFT COMPONENT MANUFACTURER'S PUBLISHED DATA AT INTERVAL NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN DOA APPROVED MAINTENANCE SCHEDULE.

C. STATIC SYSTEMS - INSPECT AND TEST IN ACCORDANCE WITH THE AIRCRAFT MANUFACTURER'S PUBLISHED DATA OR THE REQUIREMENTS OF USA FEDERAL AVIATION REGULATIONS PART 43 APPENDIX E WHERE NO AIRCRAFT MANUFACTURER'S DATA HAS BEEN PUBLISHED. THE INSPECTION AND TEST HAS TO BE PERFORMED AT THE INTERVALS NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN DOA APPROVED MAINTENANCE SCHEDULE.

D. PITOT SYSTEM - INSPECT AND TEST FOR LEAKAGE IN ACCORDANCE WITH THE AIRCRAFT MANUFACTURER'S PUBLISHED DATA OR THE FOLLOWING REQUIREMENTS WHERE NO AIRCRAFT MANUFACTURER'S DATA HAS BEEN PUBLISHED.

- (1) CHECK EACH SYSTEM FOR FREEDOM FROM MOISTURE, RESTRICTION, DETERIORATION AND AIRFRAME IMPERFECTIONS THAT MAY EFFECT THE SYSTEM ACCURACY.
- (2) TEST EACH SYSTEM FOR LEAKAGE BY APPLYING A PRESSURE TO THE SYSTEM TO CAUSE THE AIRSPEED INDICATOR TO READ 120 KNOTS. THERE SHALL BE NO SIGN OF RESTRICTION IN THE PIPING AND NO DECREASE IN READING WHEN THE SYSTEM IS SEALED FOR AT LEAST 10 SECONDS.

THE INSPECTION AND TEST HAS TO BE PERFORMED AT THE INTERVALS NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN DOA APPROVED MAINTENANCE SCHEDULE.

E. ATC TRANSPONDERS - INSPECT AND TEST IN ACCORDANCE WITH THE REQUIREMENTS OF USA FEDERAL AVIATION REGULATIONS PART 43, APPENDIX F AT INTERVALS NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN THE DOA APPROVED MAINTENANCE SCHEDULE.

F. COMPASS SYSTEMS - SWING IN ACCORDANCE WITH THE AIRCRAFT OR AIRCRAFT COMPONENT MANUFACTURER'S PUBLISHED DATA AND THE DEVIATION AT ANY CARDINAL AND 30 DEGREES MAGNETIC HEADING SHALL NOT EXCEED.

- (1) 1 DEGREE FOR GYRO-STABILISED REMOTE INDICATING COMPASSES
- (2) 1 DEGREE FOR NON GYRO-STABILISED REMOTE INDICATING COMPASSES
- (3) 3 DEGREES FOR DIRECT READING COMPASSES
- (4) 3 DEGREES FOR STANDBY COMPASSES

THE SWING HAS TO BE PERFORMED AT INTERVALS NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN THE DOA APPROVED MAINTENANCE SCHEDULE.

G. FUEL QUANTITY GAUGES SHALL BE TESTED AND CALIBRATED IN ACCORDANCE WITH

- (1) THE INDICATED QUANTITY OF FUEL SHALL EQUAL THE ACTUAL FUEL IN THE TANK LESS THE UNUSABLE QUANTITY OF FUEL, SUBJECT TO THE TOLERANCES SPECIFIED IN THIS PARAGRAPH.
- (2) FUEL QUANTITY GAUGES SHALL BE CHECKED FOR ACCURACY AT ALL MAJOR GRADUATIONS.

- (3) SCALE ERRORS AT EMPTY SHALL NOT EXCEED + 0.5 OR - 8 PERCENT OF THE NOMINAL TANK CAPACITY.
- (4) THE CORRECTIVE PLACARD SHALL BE DISPLAYED ADJACENT TO THE INDICATOR SHOWING THE CORRECTED READINGS AT ALL MAJOR GRADUATIONS.

THE TEST AND CALIBRATION HAS TO BE PERFORMED AT INTERVALS NOT TO EXCEED 3 YEARS OR AT THE INTERVALS SPECIFIED IN THE DOA. APPROVED MAINTENANCE SCHEDULE.



(MR. VICHAI PRATEEPPRECHA)  
FOR DIRECTOR OF AIR SAFETY DIVISION

DATE OF ISSUE : JULY 20 , 1995

NO. 0405/1344

ATTN : ALL AIRCRAFT OPERATOR OR OWNER