

ZONES: 213 214  
 A/C NUMBER:  
 REV. DATE: 06/07/07  
 FREQUENCY: 4A

W/C NUMBER: 721F3405      DATE:

MECH      INSP

MRB ITEM: 34-10-00-05

OPERATIONALLY CHECK THE AIR DATA INSTRUMENT SWITCHING UNIT

CAUTION: LINE MAINTENANCE PERSONNEL MUST BE ALERT TO THE FACT THAT UNDER CERTAIN CONDITIONS, CENTRAL AIR DATA COMPUTER (CADC) OPERATION CAN RESULT IN SUDDEN MOVEMENT OF POWERED CONTROL SURFACES. THIS CONDITION IS ONLY PRESENT WHEN THE FLIGHT GUIDANCE SYSTEM IS IN OPERATION AND HYDRAULIC POWER IS ENERGIZED. UNDER THESE CONDITIONS, ACTUATION OF THE SELF-TEST OR APPLICATION OF PITOT STATIC PRESSURES, PROVIDES CADC OUTPUTS THAT CAN CAUSE A FLIGHT GUIDANCE CORRECTIVE RESPONSE AND RESULT IN MOVEMENT OF THE CONTROL SURFACES. THEREFORE, PRIOR TO APPLYING PITOT STATIC PRESSURE OR DEPRESSING THE PUSH TO TEST SWITCH ON THE CADC FRONT PANEL, IT IS NECESSARY TO OPEN, TAG, AND SAFETY FLIGHT GUIDANCE SYSTEM CIRCUIT BREAKERS.

\_\_\_\_\_ XXXXX 1. Make sure electrical power is available and all necessary circuit breakers are closed.

\_\_\_\_\_ XXXXX 2. Air Data Instrument Switching Unit Test (2 Central Air Data Computers (CADC)).

NOTE: If aircraft has 3 Central Air Data Computers, step 2. may be marked N/A.

A. Place overhead switch panel CADC selector switch to BOTH ON 1 position.

B. Open flight compartment overhead AIR DATA CMPTR-2 circuit breaker.

C. Place CADC-1 front panel MODE SELECT switch in the FUNCTION TEST position.

D. Depress and hold CADC-1 PRESS TO TEST switch. Check Captain's and First Officer's indicators for the following displays:

| Instrument | Desired Result       |
|------------|----------------------|
| Altitude   | 9890 (+/- 20) feet   |
|            | *10300 (+/- 20) feet |

CADC SWITCHING

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 721F3405 (continued)

MECH: INSP:

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|   |  |
|---|--|
| (with S.B. 34-93 incorporated)                    | *10340 (+/- 20) feet                         |
| Mach  | .746 (+/- .006) mach<br>.762 (+/- .006) mach |
| Airspeed  | 418 (+/- 3) knots<br>425 (+/- 3) knots       |
| Maximum Allowable Airspeed<br>(VMO switch NORMAL) | 378 (+/- 3) knots<br>*328 (+/- 3) knots      |
| Vertical Speed                                    | 1000 (+/- 100) fpm                           |
| True Airspeed                                     | 456 (+/- 1) knots<br>*465 (+/- 1) knots      |
| Static Air Temperature                            | -27 (+/- 2) deg C<br>*-28 (+/- 2) deg C      |

\* Airplanes with spare engine configuration connectors installed

- E. Release the PRESS TO TEST switch.
- F. Close flight compartment overhead AIR DATA CMPTR-2 and open AIR DATA CMPTR-1 circuit breaker.
- G. Place overhead switch panel CADC selector switch to BOTH ON 2 position.
- H. Place CADC-2 front panel MODE SELECT switch in the FUNCTION TEST position.
- I. Depress and hold CADC-2 PRESS TO TEST switch. Check captain's and First Officer's indications for the following displays:

| Instrument                     | Desired Result                               |
|--------------------------------|--|
| Altitude                       | 9890 (+/- 20) feet                           |
|                                | *10300 (+/- 20) feet                         |
| (with S.B. 34-93 incorporated) | *10340 (+/- 20) feet                         |
| Mach                           | .746 (+/- .006) mach<br>.762 (+/- .006) mach |

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 721F3405 (continued)

MECH: INSP:

|                            |                    |
|----------------------------|--------------------|
| Airspeed                   | 418 (+/- 3) knots  |
|                            | 425 (+/- 3) knots  |
| Maximum Allowable Airspeed | 378 (+/- 3) knots  |
| (VMO switch NORMAL)        | *328 (+/- 3) knots |
| Vertical Speed             | 1000 (+/- 100) fpm |
| True Airspeed              | 456 (+/- 1) knots  |
|                            | *465 (+/- 1) knots |
| Static Air Temperature     | -27 (+/- 2) deg C  |
|                            | *-28 (+/- 2) deg C |

\* Airplanes with spare engine configuration connectors installed

J. Release the PRESS TO TEST switch.

K. Place overhead switch panel CADC selector switch to NORM position.

XXXXX 3. Air Data Instrument Switching Unit Test (3 Central Air Data Computers (CADC)).

NOTE: If aircraft has 2 Central Air Data Computers, step 3. may be marked N/A.

A. Place overhead switch panel CADC selector switch to CAPT ON 3 position.

B. Place CADC-3 front panel MODE SELECT switch in the FUNCTION TEST position.

C. Depress and hold CADC-3 PRESS TO TEST switch. Check captain's indicators for the following displays:

| Instrument                     | Desired Result       |
|--------------------------------|----------------------|
| Altitude                       | 9890 (+/- 20) feet   |
|                                | *10300 (+/- 20) feet |
| (with S.B. 34-93 incorporated) | *10340 (+/- 20) feet |
| Mach                           | .746 (+/- .006) mach |

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 721F3405 (continued)

MECH: INSP:

|   |   |
|---|---|
|   | .762 (+/- .006) mach                    |
| Airspeed  | 418 (+/- 3) knots<br>425 (+/- 3) knots  |
| Maximum Allowable Airspeed<br>(VMO switch NORMAL) | 378 (+/- 3) knots<br>*328 (+/- 3) knots |
| Vertical Speed                                    | 1000 (+/- 100) fpm                      |
| True Airspeed                                     | 456 (+/- 1) knots<br>*465 (+/- 1) knots |
| Static Air Temperature                            | -27 (+/- 2) deg C<br>*-28 (+/- 2) deg C |

\* Airplanes with spare engine configuration connectors installed

- D. Release the PRESS TO TEST switch.
- E. Place overhead switch panel CADC selector switch to F/O ON 3 position.
- F. Place CADC-3 front panel MODE SELECT switch in the FUNCTION TEST position.
- G. Depress and hold CADC-3 PRESS TO TEST switch. First Officer's indicators for the following displays:

| Instrument  | Desired Result                               |
|---|--|
| Altitude  | 9890 (+/- 20) feet                           |
| (with S.B. 34-93 incorporated)                    | *10300 (+/- 20) feet<br>*10340 (+/- 20) feet |
| Mach  | .746 (+/- .006) mach<br>.762 (+/- .006) mach |
| Airspeed  | 418 (+/- 3) knots<br>425 (+/- 3) knots       |
| Maximum Allowable Airspeed<br>(VMO switch NORMAL) | 378 (+/- 3) knots<br>*328 (+/- 3) knots      |

CADC SWITCHING

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 721F3405 (continued)

MECH: INSP:

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|                        |   |
|------------------------|---|
| Vertical Speed         | 1000 (+/- 100) fpm                      |
| True Airspeed          | 456 (+/- 1) knots<br>*465 (+/- 1) knots |
| Static Air Temperature | -27 (+/- 2) deg C<br>*-28 (+/- 2) deg C |

\* Airplanes with spare engine configuration connectors installed

H. Release the PRESS TO TEST switch.

I. Place overhead switch panel CADC selector switch to NORM position.

\*\*\*\*\* END OF WORKCARD \*\*\*\*\*