

TEMPORARY REVISION No. 05-064



Released by:

Signature

Date 16.07.2009

Approved by EASA under Approval No. EASA. A.C. 10642 on 16. July 2009

Subject: **POWER LEVER AURAL ALERT TEST**

Reason for Issue: Introduction of new system test titled POWER LEVER AURAL ALERT TEST.
This system ground test shall be performed right after the Np Overspeed Governor test has been completed provided the airplane is equipped with the power lever aural alert function introduced by SB-328-76-486.
(Change Notice No. CN-01018 Issue 01 Rev. 00)

Action: Amend the above mentioned manual as shown below:

1. Insert the pages of this Temporary Revision in the applicable manual as instructed below.
2. Page(s) affected by this Temporary Revision is (are):
Page 1 of 2 Title
Page 2 of 2 facing page 2, Subsection 05-12-00
3. Enter the insertion of this Temporary Revision on the Record of Approved Temporary Revisions.
4. Retain this page for record purposes and insert it behind the Record of Approved Temporary Revisions.
5. Do not remove this Temporary Revision until instructed to do so.

TR 05-064

SUPPLEMENTARY NORMAL SYSTEM PROCEDURES

ENGINE / PROPELLER cont'd

ENRICHMENT SOLENOID TEST

(Ground test only - after maintenance)

BOTH ENGINES RUNNING

- | | |
|---------------------------------------|---------|
| 1. POWER lever | GI |
| 2. CONDITION lever | FEA |
| 3. ENRICH SOLENOID TEST switch | LH |
| - NH increase | Check |
| 4. ENRICH SOLENOID TEST switch | Release |
| - NH decrease to previous value | Check |
| 5. ENRICH SOLENOID TEST switch | RH |
| - NH increase | Check |
| 6. ENRICH SOLENOID TEST switch | Release |
| - NH decrease to previous value | Check |

N_p OVERSPEED GOVERNOR and POWER LEVER AURAL ALERT TEST

(Ground tests only - daily)

BOTH ENGINES RUNNING

- | | |
|-----------------------------------|-----------------------------|
| 1. CONDITION levers (both) | MIN |
| 2. POWER levers (both) | Advance to 80% NP minimum |
| 3. PROP OVSPD TEST switch | LH/RH |
| 4. PROP RPM drop monitor to | 72% - 77%, check stabilized |
| 5. PROP OVSPD TEST switch | Release |
| 6. PROP RPM rise monitor to | Previous N _p |

NOTE: If PROP RPM is not within limits, repeat this test with CONDITION levers in position MAX and ECUs in MAN. The test is acceptable if PROP RPM drop is now within limits.

Continue daily ground test to perform POWER Lever Aural Alert Test:

- | | |
|---|--|
| 7. POWER levers (both) | Retard with both lever latch handles lifted until POWER levers lock with aural alert sounding |
| 8. POWER lever latch handles (both) | Release - check sound of alert silenced |
| 9. POWER lever latch handle (one after another) | Lift - check individual aural alert sounds slightly different from that generated with both latch handles lifted |
| | Release - check each individual sound of alert silenced |
| 10. POWER levers (both) | Retard to FI, than GI - check no aural alert sounds |

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Released by:

Date 16.07.2009

Approved by EASA under Approval No. EASA. A.C. 10642 on 16 July 2009

Subject : **NEW DAILY SYSTEM TEST - (POWER LEVER AURAL ALERT TEST)**

Reason for Issue : Introduction of new system test titled POWER LEVER AURAL ALERT TEST.
This system ground test must be performed daily provided the airplane is equipped with the power lever aural alert function introduced by SB-328-76-486.

Additional editorial change on Page 2: the TRU function test, still mentioned as system test to be performed before first flight of the day, has been corrected for being a daily check to be in line with approved TR 05-041.
(Change Notice No. CN-01018 Issue 01 Rev. 00)

Action : Amend the above mentioned manual as shown below:

1. Insert the pages of this Temporary Revision in the applicable manual as instructed below.
2. Page(s) affected by this Temporary Revision is (are):
Page 1 of 2 Title
Page 2 of 2 facing page 2, Subsection 05-03-00
3. Enter the insertion of this Temporary Revision on the Record of Approved Temporary Revisions.
4. Retain this page for record purposes and insert it behind the Record of Approved Temporary Revisions.
5. Do not remove this Temporary Revision until instructed to do so.

TR 05-065

ENGINE START

AFTER ENGINE START

EXT POWER DISCONNECT (If applicable)	
EXT power button	Off
GEN LH/RH FAIL lights	Extinguished
Check 26V DC minimum each MAIN BUS	
External power	Disconnect
PROBES 1, 2 and STBY buttons	On
HYD PWR STBY selector	AUTO
Ground crew	Disconnect (if applicable)
GND CALL button	PUSH (if applicable)
CALL light	Extinguished
STBY attitude indicator	Uncage
CONDITION levers (both)	MIN
Hydraulic pressure	Check 3 000 - 3 100 PSI
Brake temperature indicators	Check
NWS button	On
ANTI SKID button	On
FLAPS	Set for T/O
PACK LH/RH buttons	On
ECS BLEED LH/RH buttons	On

NOTE: For the ECS bleed air switch on wait either a minimum of 2 minutes with the propellers in feather or a minimum of 1 minute after the propellers have unfeathered.

System tests AS REQUIRED
(refer to the SUPPLEMENTARY NORMAL SYSTEM PROCEDURES)

Test to be performed before the first flight of the day:

- FLAP SYSTEM TEST

Tests to be performed daily:

- NP OVERSPEED GOVERNOR TEST
- POWER LEVER AURAL ALERT TEST
- PROP AUTOFEATHER TEST
- TRU FUNCTION TEST

TR 05-065

TEMPORARY REVISION No. 05-066



Released by:

Signature

Date 16.07.2009

Approved by EASA under Approval No. EASA.A.C.10642 on 16 July 2009

Subject : **NEW DAILY SYSTEM TEST - (POWER LEVER AURAL ALERT TEST)**

Reason for Issue : Introduction of new system test titled POWER LEVER AURAL ALERT TEST.
This system ground test must be performed daily provided the airplane is equipped with the power lever aural alert function introduced by SB-328-76-486.
Additional editorial change on Page 2: the TRU function test, still mentioned as system test to be performed before first flight of the day, has been corrected for being a daily check to be in line with approved TR 05-042.
(Change Notice No. CN-01018 Issue 01 Rev. 00)

Action : Amend the above mentioned manual as shown below:

1. Insert the pages of this Temporary Revision in the applicable manual as instructed below.
2. Page(s) affected by this Temporary Revision is (are):
Page 1 of 2 Title
Page 2 of 2 facing page 2, Subsection 05-03-00
3. Enter the insertion of this Temporary Revision on the Record of Approved Temporary Revisions.
4. Retain this page for record purposes and insert it behind the Record of Approved Temporary Revisions.
5. Do not remove this Temporary Revision until instructed to do so.

TR 05-066

ENGINE START

AFTER ENGINE START

EXT POWER DISCONNECT (If applicable)

EXT power button Off
GEN LH/RH FAIL lights Extinguished
Check 26V DC minimum each MAIN BUS
External power Disconnect

PROBES 1, 2 and STBY buttons On
HYD PWR STBY selector AUTO
Ground crew Disconnect (if applicable)
GND CALL button PUSH (if applicable)
CALL light Extinguished
STBY attitude indicator Uncage
CONDITION levers (both) MIN
Hydraulic pressure Check 3 000 - 3 100 PSI
Brake temperature indicators Check
NWS button On
ANTI SKID button On
FLAPS Set for T/O
PACK LH/RH buttons On
ECS BLEED LH/RH buttons On

NOTE: For the ECS bleed air switch on wait either a minimum of 2 minutes with the propellers in feather or a minimum of 1 minute after the propellers have unfeathered.

System tests AS REQUIRED
(refer to the SUPPLEMENTARY NORMAL SYSTEM PROCEDURES)

Test to be performed before the first flight of the day:

- FLAP SYSTEM TEST
- GROUND SPOILER SYSTEM TEST

Tests to be performed daily:

- NP OVERSPEED GOVERNOR TEST
- POWER LEVER AURAL ALERT TEST
- PROP AUTOFEATHER TEST
- TRU FUNCTION TEST

TR 05-066

TEMPORARY REVISION No. 04-078

NOTE: This Temporary Revision deletes and replaces TR 04-075

Released by:

Signature



Date 29.07.2010

Approved by EASA under Approval No. 10031337 on 10.08.2010

Subject: **NUISANCE POWER LEVER AURAL ALERT**

Reason for Issue: Introduction of new procedure titled NUISANCE POWER LEVER AURAL ALERT, valid for airplanes equipped with the power lever aural alert function introduced by SB-328-76-486.
(Change Notice No. CN-01029 Issue 01 Rev. 00)

Action: Amend the above mentioned manual as shown below:

1. Remove and destroy the pages of TR 04-075 and insert the pages of this Temporary Revision in the applicable manual as instructed below.
2. Page(s) affected by this Temporary Revision is (are):
Page 1 of 2 Title
Page 2 of 2 facing page 12, Section 04-09-00
3. Enter the removal of the deleted Temporary Revision and the insertion of this Temporary Revision on the Record of Approved Temporary Revisions.
4. Retain this page for record purposes and insert it behind the Record of Approved Temporary Revisions.
5. Do not remove this Temporary Revision until instructed to do so.

TR 04-078

ENGINE

CONDITION

NUISANCE POWER LEVER AURAL ALERT

**POWER LEVER AURAL ALERT SOUNDS WITH
BOTH LATCH HANDLES RELEASED**

ACTION

NOTE: A nuisance aural alert tone with both Power lever latch handles released may be caused by a left or right latch handle sensor failure or by a failure in the electrical wiring of the sensor circuit. The nuisance alert may only be silenced by pulling associated system circuit breakers.

If aural alert persists with both latch handles released:

1. PWR LVR AUDIO LH c/b (I 4) and
PWR LVR AUDIO RH c/b (M5) Pull to silence aural alert

► **If in flight:**

CAUTION : BE AWARE OF DEACTIVATED POWER LEVER ALERT FUNCTION. ASSURE THAT THE POWER LEVER LATCH HANDLES ARE NOT LIFTED BEFORE TOUCH DOWN.

END

► **If on ground:**

2. Maintenance action required before takeoff

END

TR 04-078

TEMPORARY REVISION No. 04-079

NOTE: This Temporary Revision deletes and replaces TR 04-076

Released by:

Signature



Date 29.07.2010

Approved by EASA under Approval No. 100 31 337 on 10.09.2010

Subject : **EICAS CAUTION "PROXI SYSTEM"**

Reason for Issue : Revised PROXI SYSTEM Procedure to inform Flight crew of failure of the POWER lever aural alert function in case of "PROXI SYS FAIL" is displayed on HYDR page. Revision is valid for airplanes equipped with the power lever aural alert function introduced by SB-328-76-486.
(Change Notice No. CN-01029 Issue 01 Rev. 00)

Action : Amend the above mentioned manual as shown below:

1. Remove and destroy the pages of TR 04-076 and insert the pages of this Temporary Revision in the applicable manual as instructed below.
2. Page(s) affected by this Temporary Revision is (are):
Page 1 of 2 Title
Page 2 of 2 facing page 1, Section 04-04-00
3. Enter the removal of the deleted Temporary Revision and the insertion of this Temporary Revision on the Record of Approved Temporary Revisions.
4. Retain this page for record purposes and insert it behind the Record of Approved Temporary Revisions.
5. Do not remove this Temporary Revision until instructed to do so.

TR 04-079

HYDRAULICS

EICAS CAUTION ►

PROXI SYSTEM

CONDITION: PROXI SYSTEM BITE HAS DETECTED FAILURE in:
 NWS or GEAR LOCK or WOW or HYD QTY LEVEL SENSING

ACTION

On ground:

1. Maintenance action required before takeoff

In flight:

NOTE: If no HYDR page is available and no other CAUTIONs are available on EICAS the **PROXY SYS FAIL** procedure should be applied.

► **PROXI SYS FAIL** displayed on HYDR page (if available)

Be prepared for unreliable system indications. The following functions may be affected:

- All LDG GEAR CAUTION's and indications
- Normal LDG GEAR
(use LANDING GEAR EXTENSION
MALFUNCTION procedure - if necessary)
- Hydraulic system CAUTION's and indications
- Door CAUTION's and indications
- WOW-status
- POWER lever aural alert function

Before the normal BEFORE LANDING procedure:

1. NWS button OFF
2. ANTI SKID button OFF
3. WX RADAR OFF
4. CAB DUMP button DUMP
5. PWR LVR AUDIO LH c/b (I 4) and
PWR LVR AUDIO RH c/b (M5) ... Pull

CAUTION : BE AWARE OF DEACTIVATED POWER LEVER ALERT
 FUNCTION. ASSURE THAT THE POWER LEVER LATCH
 HANDLES ARE NOT LIFTED BEFORE TOUCH DOWN.

6. Actual landing distance Increase by factor given below:

CONDITION		FACTOR
FLAPS 20° :	• NWS OFF • ANTI SKID SYSTEM OFF • Both engines full reverse	1.15 (15%)
FLAPS 32° :	• NWS OFF • ANTI SKID SYSTEM OFF • Both engines full reverse	1.35 (35%)

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TR 04-079

TEMPORARY REVISION No. 04-080

NOTE: This Temporary Revision deletes and replaces TR 04-077

Released by:

Signature



Date 29.07.2010

Approved by EASA under Approval No. 10031337 on 10.08.2010

Subject: **EICAS CAUTION "PROXI SYSTEM"**

Reason for Issue : Revised PROXI SYSTEM Procedure to inform Flight crew of failure of the POWER lever aural alert function in case of "PROXI SYS FAIL" is displayed on HYDR page. Revision is valid for airplanes equipped with the power lever aural alert function introduced by SB-328-76-486.
(Change Notice No. CN-01029 Issue 01 Rev. 00)

Action : Amend the above mentioned manual as shown below:

1. Remove and destroy the pages of TR 04-077 and insert the pages of this Temporary Revision in the applicable manual as instructed below.
2. Page(s) affected by this Temporary Revision is (are):
Page 1 of 3 Title
Page 2 of 3 facing page 1, Section 04-04-00
Page 3 of 3 facing page 1, Section 04-04-00, (behind of TR Page 2 of 3)
3. Enter the removal of the deleted Temporary Revision and the insertion of this Temporary Revision on the Record of Approved Temporary Revisions.
4. Retain this page for record purposes and insert it behind the Record of Approved Temporary Revisions.
5. Do not remove this Temporary Revision until instructed to do so.

TR 04-080

HYDRAULICS

EICAS CAUTION ►

PROXI SYSTEM

CONDITION: PROXI SYSTEM BITE HAS DETECTED MULTIPLE FAILURES in:
NWS SENSING, GEAR LOCK SENSING, WOW SENSING, HYD QTY LEVEL
SENSING, PSEU or ARINC DATA TRANSMISSION

ACTION

On ground:

1. Maintenance action required before takeoff

In flight:

NOTE: If no HYDR page is available and no other CAUTIONs are available on EICAS the **PROXY SYS FAIL** procedure should be applied.

► **PROXI SYS FAIL** displayed on HYDR page (if available)

Be prepared for unreliable system indications. The following functions may be affected:

- All LDG GEAR CAUTION's and indications
- Normal LDG GEAR
(use LANDING GEAR EXTENSION
MALFUNCTION procedure - if necessary)
- Ground spoiler CAUTION's and indications
- Hydraulic system CAUTION's and indications
- Door CAUTION's and indications
- WOW-status
- POWER lever aural alert function

Before the normal BEFORE LANDING procedure:

1. NWS button OFF
2. ANTI SKID button OFF
3. GND SPOILER button OFF
4. WX RADAR OFF
5. CAB DUMP button DUMP
6. PWR LVR AUDIO LH c/b (I 4) and
PWR LVR AUDIO RH c/b (M5) ... Pull

CAUTION : BE AWARE OF DEACTIVATED POWER LEVER ALERT
FUNCTION. ASSURE THAT THE POWER LEVER LATCH
HANDLES ARE NOT LIFTED BEFORE TOUCH DOWN.

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TR 04-080

HYDRAULICS

EICAS CAUTION ►

PROXI SYSTEM

cont'd

CONDITION: PROXI SYSTEM BITE HAS DETECTED MULTIPLE FAILURES in:
NWS SENSING, GEAR LOCK SENSING, WOW SENSING, HYD QTY LEVEL
SENSING, PSEU or ARINC DATA TRANSMISSION

ACTION

In flight (cont'd):

7. Actual landing distance Increase by factor given below:

CONDITION	FACTOR
FLAPS 20° : • NWS OFF • ANTI SKID SYSTEM OFF • Ground spoilers retracted • Both engines full reverse	1.15 (15%)
FLAPS 32° : • NWS OFF • ANTI SKID SYSTEM OFF • Ground spoilers retracted • Both engines full reverse	1.35 (35%)

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TR 04-080