
Carousel INS

Delco Carousel IV-A Inertial Navigation System for *Microsoft Flight Simulator*

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Abnormal Procedures

Caution: Shut down the INS when CDU is blank and the red WARN Light and/or red MSU BAT Light is/are ON

INS WARN LT _____ ON/OUT

OUT should be associated to one/both of following conditions :

- a) Aircraft VAC power loss.(BAT mode in progress).
- b) The INS coupled with A/P & F/D navigation is unsatisfactory (XTK/TKE values not coherent).

RELEVANT CDU DATA SEL_DSRTK/STS

RIGHT DATA DISPLAY _____ CHECK FOR ACTION&MALFUNCTION CODES

TEST BUTTON _____ PUSH AND RELEASE AS REQUIRED

Press and release TEST button sequentially until ACTION code either clears or reappears.

WARN LT&ACTION CODE _____ LIGHT OUT AND NO ACTION CODE

The occurred failure is temporary:INS is unaffected. In this case the procedure is over.

Otherwise:

WARN LT&ACTION CODE _____ LIGHT ON/OUT AND ACTION CODES ARE STILL PRESENT

INS NAV MODE SEL _____ SELECT UNAFFECTED SYSTEM

Apply the following check list:

ACTION CODE 01 _____ SHUT DOWN THE INS

Action code 01 is indicative of failures which can cause system damage.

ACTION CODE 02 _____ WATCH FOR DEGRADATION. SELECT ATT IF NECESSARY. ON GROUND DOWNMODE TO STBY AND RESTART ALIGNEMENT

Action code 02 is indicative of malfunctions which can affect some or all navigation data.

**ACTION CODE 03 _____ CONNECTION TO AUTOPILOT AND FLIGHT DIRECTOR IS AFFECTED.
Disconnect relevant INS NAV MODE Selector**

Action code 03 is not associated with the CDU red WARN light and is indicative of unreliability of INS outputs to A/P & F/D due either to power loss (BAT mode in progress) or connection failure with A/P & F/D. INS can be still used for navigation but disconnected from A/P & F/D.

ACTION CODE 04 _____ ON GROUND ONLY DOWNMODE TO STBY AND RESTART ALIGNMENT

Action code 04 is indicative of possible airplane movement or incorrect gyros/accelerometers data during alignment.

Note: If ramp position is out of limits (80 00.0 N or S) select ATT on all MSUs.

Flight must be performed along a radio or radar navigation assisted track.

ACTION CODE 05 _____ ADEU ERROR

Action code 05 indicates there was an error during last read operation performed on the relevant ADEU unit.

To clear the error use the TEST button on the CDU or the ERROR switch/light on the ADEU panel.

Correct file syntax and reload it.

ACTION CODE 06 _____ DURING ALIGNMENT: VERIFY PRESENT POSITION AND RELOAD IF NECESSARY

If present position is correct clear the warning by pushing the TEST button as required.

ACTION CODE 06 _____ DURING NAV MODE: PERFORM ERADICATION PROCEDURE

Eradicate any previous updating, system accuracy is suspected.