

Thrane & Thrane

Service Bulletin

OPTIONAL

405033A-UAT, 405033A-UAT-NRS

Service Bulletin no: 95-123680-B

SUBJECT: SOFTWARE UPDATE TO THE AERO I SATELLITE DATA UNIT, 405033A-UAT , 405033A-UAT-NRS

REASON: This Service Bulletin is being issued to inform about an optional software update of the Aero I SDU 405033A-UAT and 405033A-UAT-NRS, to version 10.12 (Thrane & Thrane part no. 84-123680-011).

Summary: The changes in v. 10.12 compared to the previous version (10.11) are the following:

- CMU Highspeed Arinc-429 TX speed is set to following the Receiver speed.

The mentioned change are minor and with no change in form, fit and function concerning airworthiness.

EFFECTIVITY: Any of the following units:

405033A-UAT and 405033A-UAT-NRS, all Serial Numbers

NOTE !!

NOTE !!

If you are no longer in possession of this equipment, please forward this information to the present owner.

COMPLIANCE: Thrane & Thrane considers this to be an optional modification.

COMPATIBILITY: When configuring any Aero I systems running with this application software version 10.12, also the PC configuration Utilities program 'TT10228A' version 10.0 or higher must be used.

APPROVAL: Thrane & Thrane Quality Assurance Department.

Document no.: 95-123680 Rev.: B

Approved by: Gert Bresemann Date: 2006-27-10

Sheet: 1 of 6

Thrane & Thrane

Service Bulletin

OPTIONAL

405033A-UAT, 405033A-UAT-NRS

Service Bulletin no: 95-123680-B

MANPOWER: The update shall be accomplished with the equipment powered on and the front maintenance port the 405033A SDU. The update can profitably be executed leaving the equipment in its normal installation position onboard the aircraft.

Estimated man-hours for software update of the 405033A SDU: 1 hours

Suggested number of persons: 1 person.

The above is an estimate based on experienced, properly equipped personnel complying with this Service Bulletin. Occasionally, after work has started, conditions may be found which could result in additional man-hours.

MATERIAL:	PART NUMBER	DESCRIPTION	QUANTITY (Per Equipment)
	None		

**SPARES
AFFECTED:** None

**WARRANTY
CREDIT:** Thrane & Thrane will supply the parts noted under MATERIAL as warranties replace on all affected units that are within our 2 year's warranty at the time this service bulletin is released.

No warranty credit for labour noted under MANPOWER will be granted

**SPECIAL
TOOLS:**

- One serial interconnect cable 9-pole to 15-pole sub-D, Thrane & Thrane part no. 37-112940-A (see Chapter 8). The cable was delivered from the factory together with the 405033A SDU.

See also 'Hardware and Software Requirements' under 'Accomplishment Instructions' below.

REFERENCES: None

**PUBLICATIONS
AFFECTED:** None

**ACCOMPLISHMENT
INSTRUCTIONS:** This Service Bulletin shall be accomplished as described in the steps below. If you have any problems understanding or performing the instructions, please contact

Thrane & Thrane

Service Bulletin

OPTIONAL

405033A-UAT, 405033A-UAT-NRS

Service Bulletin no: 95-123680-B

Thrane & Thrane at aerosupport@thrane.com or at +1 757 463 9557.

Hardware and Software Requirements:

- One IBM compatible PC with a single 9-pole serial port available (if not directly available, a such can for example be provided by means of a USB port with a USB to serial port converter attached). Minimum PC requirements: Processor speed: 166MHz. Minimum RAM size is operating system dependend: Min. 32Mbyte for Win95 or Win98, min. 128Mbyte for other MS windows operating systems.
- One serial interconnect cable 9-pole to 15-pole sub-D, Thrane & Thrane part no. 37-112940-A (see appendix A)
- An unzip program installed on the PC (e.g. WinZip)
- The Thrane & Thrane program Configuration Utility program (Thrane & Thrane part no. TT-10228A) installed on the PC. The zipped file ' Aero-i SDU software 10.12.zip ' containing the new software Uploadfile ' Uploadsdu.bat ' Thrane & Thrane part no. 84-123680-012.

Preparing Software Update:

1. Obtain the new TT-5033A software version 10.12 from your distributor.
2. Unzip the file you have obtained. The file includes the Aero-I system software and a PC program (load5000), which makes it possible to download the software into the SDU.
3. Connect the SDU to the PC by using Aero-I Maintenance Data Cable TT 37-112940. Use the COM1 serial port of the PC and the front connector X1 (maintenance port) on the SDU.

Updating Software:

In the event of software update, repair, or replacement of the SDU, software update can be performed to the SDU using the connected PC.
Start the AERO-I software download program to activate the software download procedure.

Thrane & Thrane

Service Bulletin

OPTIONAL

405033A-UAT, 405033A-UAT-NRS

Service Bulletin no: 95-123680-B

COMPLIANCE: Upon completion of this Service Bulletin, make appropriate maintenance records.

TESTING PROCEDURE:

Check for correct download.

1. Configure the PC Terminal Program: speed 19200 bit/s, 8 bit/no parity, 1 stop bit, flow control: XON/XOFF, direct connect COM1.
2. Start the Terminal program.
3. Hit the <enter> key and check that the following prompt is displayed:
main >
4. Reboot the SDU: type reset <enter> and verify that the following is displayed in the start-up message:

```
:TT-5033 Aero-I SDU Main CPU RELEASE version 10.12
```

5. If there should occur some problems with the startup, we recommend to reiniciate the Update software procedure by after a powerdown of the SDU.

IDENTIFICATION

PROCEDURE: If possible then add version 10.12 information on the partnumber/ serialnumber label.

Thrane & Thrane

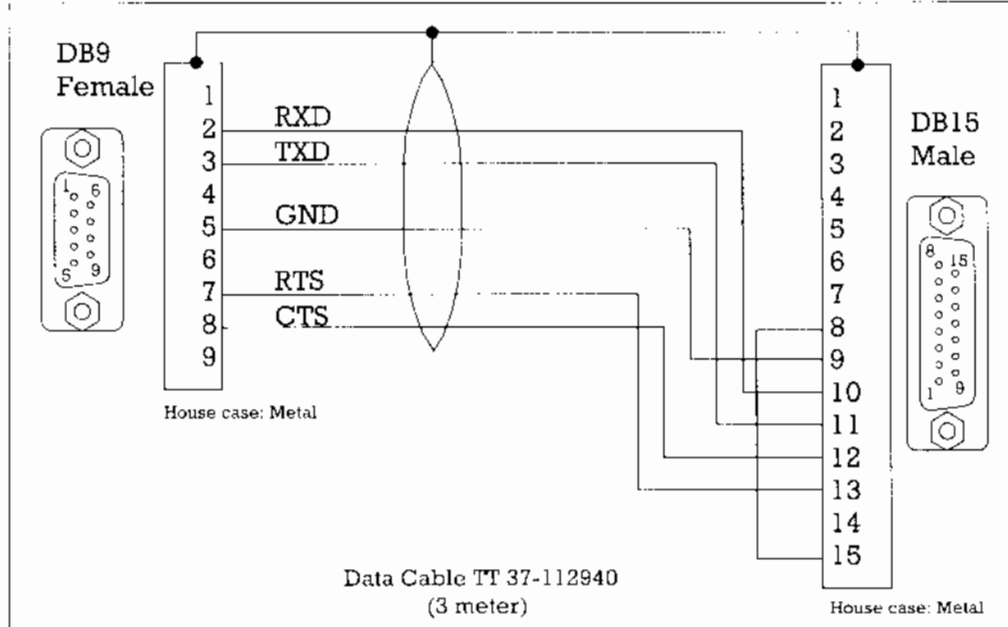
Service Bulletin

OPTIONAL

405033A-UAT, 405033A-UAT-NRS

Service Bulletin no: 95-123680-B

APENDIX A: Serial Interconnect Cable to Connect a PC to the SDU



Thrane & Thrane

Service Bulletin

OPTIONAL

405033A-UAT, 405033A-UAT-NRS

Service Bulletin no: 95-123680-B

APENDIX B: Configuration of ARINC 429 Highspeed for CMU.

