

Spectralux Personality Module Configuration Update

AFFECTED P/N:

- Spectralux Personality Module, P/N 12854-4.
- This Service Bulletin only affects the Personality Modules installed on GECAS/TNT aircraft. It does not apply to any other Personality Modules or aircraft.
- Upon incorporation of this Service Bulletin, the Spectralux Personality Module shall maintain its original part number, P/N 12854-4.

EFFECTIVITY:

<input type="checkbox"/>	Ia: All Units. Not backward compatible
<input checked="" type="checkbox"/>	Ib: All Units. Backward compatible
<input type="checkbox"/>	IIa: Selected Units (List by Serial Number, Work Order #, or Mfg. Date). Not backward compatible
<input type="checkbox"/>	IIb: Selected Units (List by Serial Number, Work Order #, or Mfg. Date). Backward compatible.

REASON:

The reason for this Service Bulletin is to notify GECAS/TNT of an update needed to the configuration of the Personality Module, P/N 12854-4. This update is needed to set the parking brake discrete as required.

DESCRIPTION:

This Service Bulletin will enable the use of a single configuration file across various GECAS/TNT aircraft. This file, along with the user database, provides the ability to customize the software installation to match the sensor data on each aircraft. This data may be unique for each aircraft and in such will be stored on the Personality Module of each aircraft. The installation of the new configuration and/or database files is required to be accomplished while the aircraft is on the ground in a maintenance posture. Directions for the customization of the representation of the aircraft sensor data are included below in the Update Procedure section.

COMPLIANCE

The update defined in this Service Bulletin is **not** related to a known safety condition and does **not** address an existing Advisory Circular (AD). This Service Bulletin does **not** affect TSOA for the Spectralux Dlink+. There is no requirement to incorporate this Service Bulletin by any given date. The incorporation of this Service Bulletin shall be determined by the operator/installer.

WARRANTY INFORMATION

This update is provided in accordance with the applicable Purchase Agreement entered into between the Spectralux Corporation and its customers.

FAA INVOLVEMENT

This Service Bulletin does not provide authorization to install or update the Spectralux Personality Module onto any aircraft. Authority to install or update the Personality Module must be obtained by the operator/installer.

APPLICABILITY AND LIMITATIONS

This Service Bulletin applies to the Spectralux Personality Module, P/N 12854-4, installed on all GECAS/TNT aircraft.

MATERIALS, PARTS, AND SPECIAL EQUIPMENT

Hardware:

- Spectralux Personality Module P/N 12854-4

Software:

- LaptopLoader.exe per VDD-13385 Revision C
- DBComp.exe per VDD-13811 Revision E
- DLink_core_db.txt per VDD-13944-2 Revision B
- GECAS/TNT Configuration per VDD-14332 Revision -

MANPOWER

Not applicable.

REFERENCES

UM-13281 Revision C, Dlink+ User's Manual

VDD-13385 Revision C, Version Description Document for LaptopLoader

VDD-13811 Revision E, Version Description Document for Database Compiler

VDD-13944-2 Revision B, Version Description Document for Dlink+ Core Database

VDD-14332 Revision -, Version Description Document for GECAS/TNT Configuration

UPDATE PROCEDURE

Follow these steps to update the configuration of the Personality Module, P/N 12854-4 installed on aircraft MSN 28881 only:

In accordance with the User's Manual (UM-13281), down load and install the configuration file, per VDD-14332 Revision -, and the current supplied users database (GECAS_TNT-DB-020.db)

From the Main System Menu select TECHNICAL>

```
+-----+
| ACARS-APPLICATION MENU |
| L1 |          AOC STD> | R1
| L2 |          ATS> | R2
| L3 |    TECHNICAL> | R3
|     |          NEXT |
+-----+
```

In the Technical menu select the B page then <DISC IN

```
+-----+
| ACARS-TECHNICAL MENU  A |
| L1 | <SYS CFG      CLOCK SET> | R1
| L2 | <LINK STATUS  PING TEST> | R2
| L3 | <OOOI STATUS 429 STATUS> | R3
|     | A/B          NEXT |
+-----+
```

```
+-----+
| ACARS-TECHNICAL MENU  B |
| L4 | <DISC IN      TEST MSG> | R4
| L5 | <DISC OUT    SEND HERE* | R5
| L6 | <RETURN HH:MM | R6
|     | A/B          NEXT |
+-----+
```

+-----+ On the TECH-DISCRETE IN page select the MODIFY> on the (BRAKES) line (R2)

```
+-----+
| TECH-DISCRETE IN          A |
L1 | (AIR/GND)  :x          MODIFY> | R1
L2 | (BRAKES)   :x          MODIFY> | R2
L3 | (FWD DOOR) :x          MODIFY> | R3
| A/B                                NEXT |
+-----+
```

The BRAKE SET MOD menu displays the current state of the BRAKES variable (may be different than the discrete input value from the DISCRETE IN menu). If it is already correct you can press return to exit the menu - there is nothing you need to do.

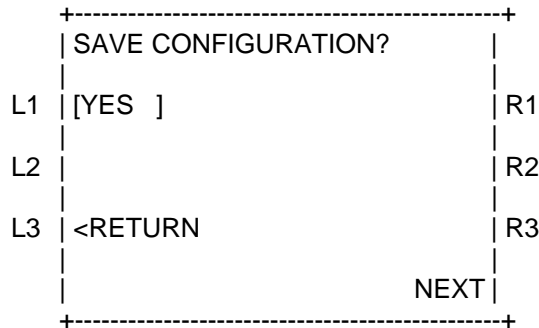
To change it:

If the brakes are currently physically SET then press L1 until the selection displays SET.
If the brakes are currently physically OFF then press L1 until the selection displays OFF.
Press the ACCEPT line select (R2) to store the setting.

This setting stores a flag in the PM to tell the database to either invert the brake discrete or not to provide the correct state.

```
+-----+
| BRAKE SET MOD
| SELECT CURRENT SETTING
L1 | [SET]                                | R1
L2 |                                ACCEPT* | R2
| BRAKES (0=OFF,1=SET) x
L3 | <RETURN                            | R3
|                                NEXT |
+-----+
```

After pressing ACCEPT* the menu will change to SAVE CONFIGURATION?. Press the return key or select <RETURN to accept the default [YES]. The Dlink will reboot to load the new settings. After the reboot is complete you can return to the BRAKE SET MOD menu and verify the BRAKES variable is now correct.



The same process can be performed for the AIR/GND discrete if needed. Modifying the other discrettes is currently not implemented.

Note: Since this will store the setting in the PM this procedure will only need to be repeated if the PM is replaced or if a new configuration is written to the PM with the LaptopLoader.

APPROVALS:

Program Manager:

Director of Engineering:

Director of Quality:
