

Thales  
10950 El Monte, Suite 110  
Overland Park, Kansas 66211  
Telephone: +1-913-422-2600

BULLETIN NO. MK20A-003 Rev. B    DATE: 28 October 2013  
APPLICABLE TO: Model Mark 20A Instrument Landing Equipment

**SUBJECT:** Add In-line Fuse to Protect the Mark 20A J2 Backplane from Possible Overcurrent

**UNITS AFFECTED:** Dual Equipment Localizer Subsystems part numbers 098693-0001 098685-0001, 098708-0001 delivered prior to 2007.

Dual Equipment Glide Slope Subsystem part numbers 098700-0001, 098701-0001, 098702-0001, 098686-0001 delivered prior to 2007.

### **DESCRIPTION OF CHANGE**

Mark 20A J2 backplanes have demonstrated a weak connection of the +28-volt supply line that feeds the transfer assembly in dual equipment systems. In addition, there have been incidents where tools or cables have been inadvertently dropped in critical locations while the system is powered and contact made with the transfer assembly supply voltage. In both cases, the current carrying capacity of the printed wiring board is exceeded and the backplane suffers severe damage. In order to prevent such damage, systems delivered starting in 2007 will be equipped with an in-line fuse. This fuse removes the J2 backplane from the supply path to the transfer assembly and also protects the system against any shorting that may occur on the transfer assembly.

Thales developed a kit that provides the materials and instructions for installation of a fuse in the systems. Incorporation of this fuse is not mandatory however recommended to minimize the potential for equipment damage. Thales recommends that dual equipment systems operate on side #2 transmitter until the modification is installed.

### **Instructions for Setting the System on Side #2**

1. Turn System power off.
  2. Locate LCSU circuit card assembly. Change switch S2-1 on the LCSU circuit card assembly to the "on" position.
  3. Turn system power back on.
- Number two transmitter will now be the main transmitter to the antenna.

### **How to Order the In- Line Fuse Kit**

A field installation fuse kit, part number 069724-0001 is available at no cost.

### **Contact Thales Customer Service at:**

Telephone: 913-422-2735 or 800-526-3433 (domestic calls)  
E-Mail: [product.support@thalesdsi.com](mailto:product.support@thalesdsi.com)  
Mail: Thales Air Traffic Management  
Thales Defense & Securities, Inc.  
10950 El Monte, Suite 110  
Overland Park, KS 66211  
Attn: Customer Service

**CHANGE YOUR INSTRUCTION MANUAL TO CONFORM**