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## TALON FXC INSTALLATION INSTRUCTIONS (Interim)

### BACKGROUND

When the TALON was first designed three years ago, because of certain design constraints, coupled with many reliability problems relating to the FXC AAD, it was decided not to install FXCs on the TALON. Since then, the reliability of the FXC has improved dramatically and the other AAD alternative, the SSE Sentinel MK-2000 has become unavailable. Because of these reasons and demand from the Skydiving community, Rigging Innovations undertook the task of adapting the FXC to the TALON design.

In designing a successful AAD installation, it is necessary to address several criteria:

1. The FXC must be able to be installed and removed from the harness/container without disassembling the unit.
2. The FXC must be fully protected from being snagged when installed.
3. The manual activation of the reserve ripcord must in no way be inhibited by the FXC installation.
4. The installation should be as cosmetically appealing as possible.

It took us considerable time and effort to meet these criteria, but we feel that the end result is the best installation of its type available so far. To do so required us working with FXC Corporation who was able to produce a special ripcord cable extension that met our requirements. Along with that we had manufactured to our specifications a clamp that is used to attach the FXC power cable housing to the reserve ripcord housing. This clamp allows the FXC to be installed and removed from the TALON with minimum problems and errors. By mounting the two housings in parallel, the direct line of pull of the ripcord is maintained and the stiffness of the FXC housing does not inhibit the operation of the top flap of the reserve or the reserve pilotchute. The final result is that the rigger only needs to locate the FXC in the TALON and tighten 3 screws to install the unit.



For those individuals who are using a Free Bagged square reserve in their TALON, we have changed the size of the line stow pouch so that the lines may be stowed to one side thereby allowing space to be left for the power unit of the FXC. This makes the resulting pack job slightly more symmetrical and balances the bulk in the reserve container.

As a result of the extensive modifications built into the TALON for the FXC installation and possibly building a larger size reserve container to accommodate the additional FXC bulk, Rigging Innovations Inc **WILL NOT BE RETROFITTING FXCs TO EXISTING TALONS**. The FXC installation will only be available on newly manufactured TALONS. The below instructions should enable any certified Parachute Rigger to install a FXC on a compatible TALON. Remember, this is the only FXC installation authorized by Rigging Innovations Inc.

### INSTALLATION PROCEDURE

#### PARTS LIST:

- TALON P/N 6111-() with applicable FXC modifications.
- FXC Model 12000 P/N 811-00042
- FXC Ripcord cable extension P/N 411-00096-3
- RIGGING INNOVATIONS FXC Housing clamp

REPAIRMAN: Master or Senior Parachute Rigger

#### TOOLS:

- Medium size phillips screwdriver.
- 11/32 wrench or equivalent.

#### PROCEDURE:

1. Remove all accessory items from the TALON such as risers, bags, cutaway handle, etc.
2. Install the ripcord cable extension to the FXC and tighten securely.
3. Arm the FXC at this time. Route a pull-up cord thru the eye of the ripcord cable extension and tie the ends together with a slip knot to form a loop. Place your foot in the loop and grasp the FXC by the power box and pull until you feel the power cable latch into position. This type of arming procedure in which the power cable is kept straight is very critical. By arming the FXC with the power cable curved, it is possible to damage the unit and thereby causing it to malfunction.

4. Slide the FXC into the pocket provided in the left side of the reserve container. Make sure the sensor housing is routed on the outboard side and into the guide channel located on the left side of the shoulder comfort pad.
5. Take the power cable housing and route it UNDER the left diagonal back strap and UNDER the reserve ripcord housing.
6. Take the RI FXC Housing Clamp and attach the FXC housing and the reserve ripcord housing together. Note that the clamp is installed from the outside over the reserve housing first and then over the FXC housing in the channel provided on the end of the FXC housing. Slide the clamp down towards the end of the reserve housing until it just touches the Ty-3 guide loop to which the reserve housing is tacked. Make sure the open end of the clamp is towards the center of the container and that the nut and bolt is installed with the nut on the bottom. (See photo). Tighten securely.
7. Fasten the sensor unit onto the strap provided on the left main lift web. The sensor MUST be free to float to absorb opening shock and harness stretch.
8. The TALON is now ready to pack the reserve.
  - a. For square reserves, everything is normal until you stow the lines. With the larger line stow pocket, you stow the lines offset to the right side of the bag to compensate for the FXC power unit.
  - b. For round reserves, stow the diaper in the lower right corner and then distribute the balance to compensate for the FXC.
9. When it comes to closing the container and inserting the ripcord, you'll note that the ripcord cable extension has the hole drilled on an angle. When properly installed on the ripcord pin, the result is approximately a 40 degree angle from the pin. (See photo). If installed improperly, the result is that the terminal is at right angles to the pin. Insert the ripcord pin correctly into the terminal, insert it into the closing loop and seal as per the normal manner. \*
10. After the pack job is complete, check to make sure that the clamp and the two housings lay flat against the container.

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MAKE SURE THE FXC RIPCORD CABLE EXTENSION IS SEATED ABOVE THE GROMMET AND NOT WITHIN.

11. REMEMBER! If the FXC is fired, in order to re-arm the unit, the power cable housing must be removed and the housing straightened when cocking the unit. The housing can then be re-attached to the reserve ripcord housing with the clamp assembly.
12. If there are any questions about the installation of the FXC into the TALON, do not hesitate to contact RIGGING INNOVATIONS INC before proceeding.



