



# OWNER'S MANUAL

## QUICK SPLICES

### #194, #197 & #199

#### **WARNINGS & CAUTIONS**

1. The hoist up-limit switch will not operate.
2. Use with 3/16" diameter helicopter hoist cable only.
3. For emergency use by trained personnel only.

#### **DESCRIPTION**

The wedge style Quick Splice is designed for in-flight emergency replacement of the helicopter's hoist hook. Designed for 3/16" diameter, 19x7 hoist cable only. Constructed of anodized aluminum with stainless steel fasteners for strength and corrosion resistance. The wedge will increase grip on the cable as the load increases. The thumbscrew is used to secure the cable within the Quick Splice until a significant load is applied. Each unit is proof load tested to 2,100 lbs. The design provides for full rated breaking strength of the cable. The #197 is supplied with LSC's D-Lok Hoist Hook, and #199 is supplied with a shackle for attaching a user supplied hoist hook.

#### **USE**

Cut the hoist cable above the damaged area with a suitable cable cutter (LSC cable cutter P/N 195 is recommended). Re-twist the cable strands of the cut cable as required. Refer to figure 1 on back for the following steps: Rotate the thumbscrew fully counter-clockwise as per instruction (1) on the housing. This positions the wedge for cable installation. Check for ease of wedge travel by lifting the thumbscrew. The wedge must have full range of travel in the housing for sufficient grip on the cable to occur. Never use the Quick Splice if any doubt about its condition or proper use. Full travel of the wedge can be confirmed visually through the window (3). Without the cable installed, the wedge should freely travel from the bottom to the top of the window. Hold the Quick Splice upright and insert the cable between the side plates at the (2) start position. Looking down into the top, guide the cable between the housing and the wedge. Allow 4" to 5" of cable to extend from the bottom and ensure that the cable does not pass through the shackle or bail of the hook. Pass the end of the cable between the wedge and the housing on the other side until it stops at the top of the window (3). Carefully pull the cable from the top of the Quick Splice to remove all slack from the cable at the bottom of the wedge. Recheck the window (3) to ensure cable is fully inserted. Rotate thumbscrew clockwise (4), finger tight. Wedge should have moved up approximately 1/3 to 1/2 the length of the window. The top corner of the wedge is visible in the window. Try to pull the cable from the Quick Splice. When properly installed, you should not be able to pull any cable from the Quick Splice.

**WARNING: DO NOT** operate the hoist to the full up position and **DO NOT** allow the Quick Splice to contact the hoist assembly. The hoist up-limit (stop motion) switch will not operate after cable cut/break. Damage to the hoist and possible cable break will occur if splice contacts hoist assembly. Depending upon the hoist type and amount of cable cut off, the hoist may operate at full speed and may not stop automatically. Keep the Quick Splice at least 12 inches from the up-limit switch of the hoist to avoid collision of the Quick Splice with the hoist assembly. During emergency hoisting with the Quick Splice installed, the recovery of personnel or equipment into the cabin will have to be accomplished from a lower than normal position to accommodate for the additional length of the Quick Splice and a safety zone to prevent splice from damaging the hoist system. Personnel should train for this scenario. It is recommended to leave the Quick Splice on the cable and inside the cabin for the return flight after hoisting is complete. To remove the Quick Splice, loosen the thumbscrew and push the wedge down to release the cable, or cut the cable.

#### **INSPECTIONS**

While LSC has designed and manufactured the Quick Splice to be as reliable as possible, periodic testing and inspection are necessary to ensure functional reliability. The frequency of the inspection should be determined by the frequency and condition of use. However, the inspection shall not exceed three (3) months.

#### **OPERATIONAL INSPECTION**

Visually inspect the entire assembly for damage and proper function of the wedge prior to each use. Inspect the attached hoist hook per the hook manufacturer's instructions.

#### **PERIODIC INSPECTION**

Carefully inspect the assembly for cleanliness, cracks, distortion, broken or missing parts, loose screws, unusual wear, corrosion, etc. Check wedge and attached hook for proper operation. Check for proper spacing between the wedge and housing by inserting a piece of 3/16", 19x7 hoist cable and pull up the wedge with the thumbscrew until finger tight. Ensure that the wedge has at least 40% of available travel remaining.

#### **REPAIRS & MAINTENANCE**

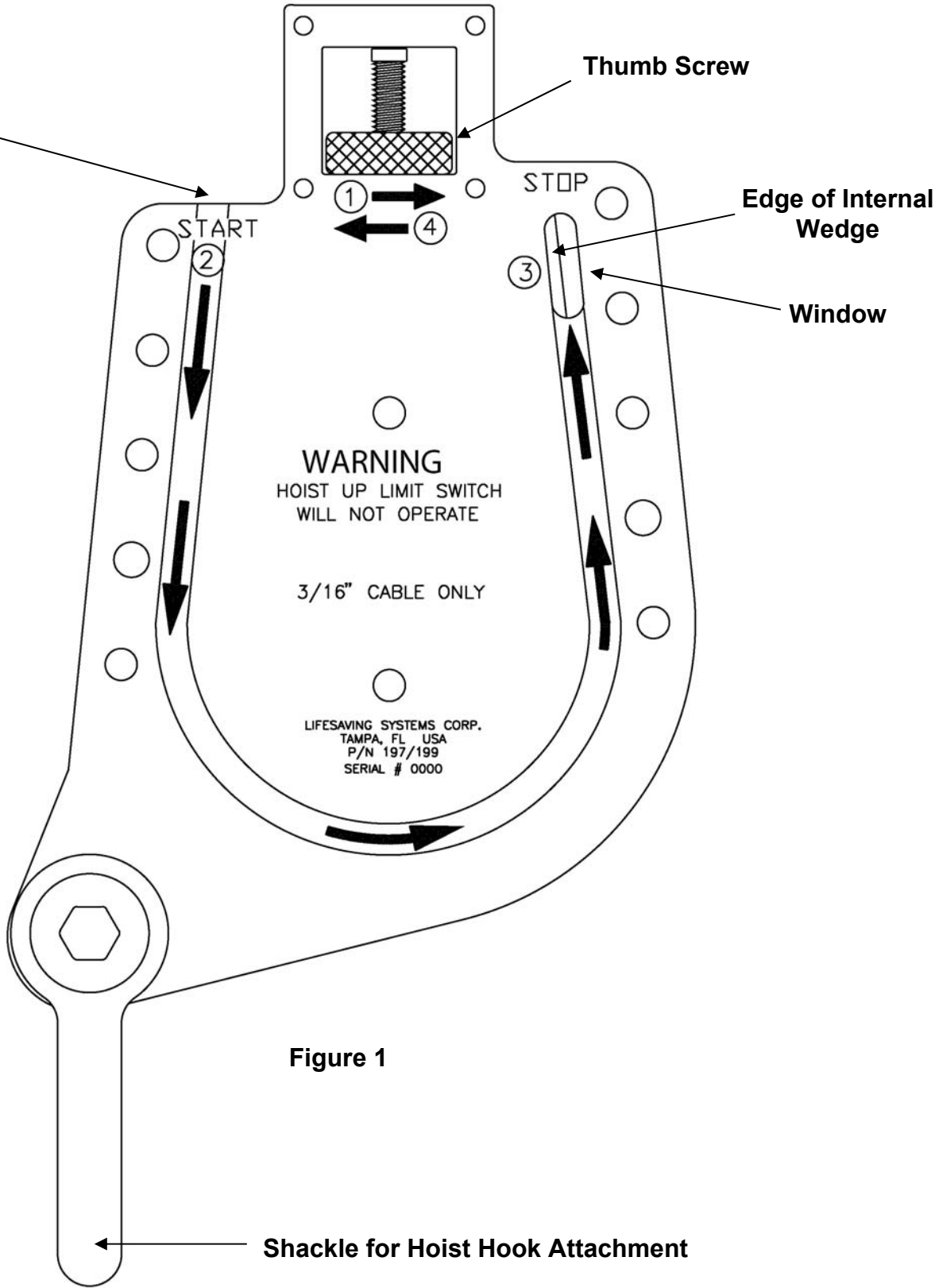
Maintenance of the Quick Splice should be limited to cleaning with mild soap and fresh water, thoroughly rinse assembly and allow to completely dry. Follow the hook manufacturer's instructions for repair and maintenance of the attached hoist hook. For damaged equipment return the assembly or contact Lifesaving Systems Corp. for serviceability determination.

#### **WARRANTY**

LSC products are warranted to the first consumer purchaser to be free from defects in material or workmanship for a period of twelve (12) months. Please contact LSC for our complete Warranty information and Policies, or visit our website.

Thumb Screw

Insert Cable Here



1 → ← 4

2 ↓

STOP

Edge of Internal Wedge

Window

**WARNING**  
HOIST UP LIMIT SWITCH  
WILL NOT OPERATE

3/16" CABLE ONLY

LIFESAVING SYSTEMS CORP.  
TAMPA, FL USA  
P/N 197/199  
SERIAL # 0000

Figure 1

Shackle for Hoist Hook Attachment

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