



# CONVERT ASI-X PACKER TO VSI-X PACKER 7-5/8" X 3-1/2"

Manual No:  
**DL-603-7625-980**

Revision: **A**

Revision Date:  
**02/23/2016**

Authored by: *B.Mathis*

Approved by: *F.Johnson*

## A) DESCRIPTION

The ASI-X Packer and VSI-X Packer use many of the same components. This document describes how to convert an ASI-X Packer to a VSI-X Packer. It is not necessary to completely disassemble the ASI-X unless the tool has been in service. If the tool has been in service, please follow D&L's recommendation for redressing.

**NOTE<sub>1</sub>:** To redress tool assembly, follow disassembly instructions. It is recommended by D&L Oil Tools to replace all seals, elements, o-rings, shear screws, etc. when redressing tool.

## B) CONVERSION NOTES

B-1) Compared to ASI-X Packer - VSI-X Packer does not use drag blocks or drag block springs.

B-2) VSI-X Packer requires installation of shear screws in J-body, spring cage, and for stinger to WLAK.

B-3) Refer to tech manuals for parts list and item numbers (ASI-X *DL-603-7625-082* and VSI-X *DL-601-7625-650*).

B-4) Refer to animation video – Convert ASI-X Packer to VSI-X Packer.

## C) UPPER END OF PACKER

### C-1) DISASSEMBLY – ASI-X PACKER

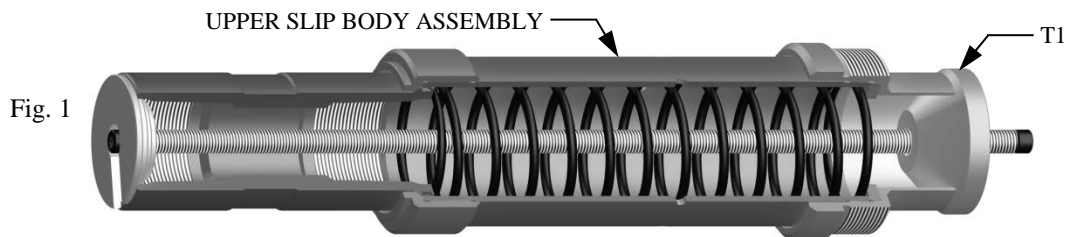
C-1.1) Clamp lower end in vise – clamp on J-body.

C-1.1.1) Unscrew top sub from inner mandrel. Remove upper slip body assembly from inner mandrel.

C-1.1.2) Clamp upper slip body assembly in vise – clamp on spring cage.

C-1.1.3) Wedge releasing slip and upper slips outwards. Unscrew and remove upper slip body from upper slip support.

### C-2) ASSEMBLY – VSI-X PACKER



C-2.1.1) Insert assembly tool into ID of upper slip body assembly.

C-2.1.2) Compress compression spring with assembly tool (Fig. 1).

C-2.1.3) Align threaded holes in spring cage with pocket holes in top sub. Screw shear screws into spring cage. Tighten until shear screws make contact with top sub. Back shear screws out 1/4 turn.

C-2.1.4) Remove assembly tool from upper slip body assembly.

C-2.1.5) Wedge releasing slip and upper slips outwards (if needed). Screw upper slip body onto upper slip support.

C-2.1.6) Remove wedges.

C-2.1.7) Install upper slip body assembly onto inner mandrel. Screw top sub onto inner mandrel.

C-2.2) Unclamp J-body from vise.

D & L OIL TOOLS  
P.O. BOX 52220 TULSA, OK 74152  
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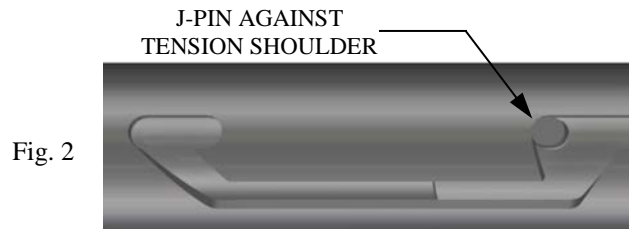
### D) LOWER END OF PACKER

#### D-1) DISASSEMBLY – ASI-X PACKER

- D-1.1) Clamp spring cage in vise.
- D-1.2) Unscrew and remove set screws from J-body.
- D-1.3) Install drag block assembly tool onto drag block body.
- D-1.4) Compress drag blocks with drag block assembly tool.
- D-1.5) Unscrew drag block body from J-body (**NOTE<sub>2</sub>**: Left-hand threads).
- D-1.6) Move drag block body upwards on rubber mandrel to allow removal of remove drag blocks.
- D-1.7) Release drag blocks. Remove drag blocks and drag block springs from drag block body.
- D-1.8) Remove drag block assembly tool from drag block body.

#### D-2) ASSEMBLY – VSI-X PACKER

- D-2.1) Screw drag block body into J-body (**NOTE<sub>2</sub>**: Left-hand threads).
- D-2.2) Screw set screws into J-body.



- D-2.3) Move J-body and assembly to position J-pin against tension shoulder in J-slot (Fig. 2).
- D-2.4) Align threaded holes in J-body with pocket holes in rubber mandrel cap. Move rubber mandrel assembly as needed to properly align threaded holes.
- D-2.5) Screw shear screws into J-body. Tighten until shear screws make contact with rubber mandrel cap. Back shear screws out 1/4 turn.
- D-2.6) Unclamp top sub from vise and remove assembled VSI-X Packer.

### E) REVISION HISTORY

DATE	REVISION	DESCRIPTION OF CHANGES	REVISED BY	APPROVED BY
02/23/2016	A	Created new document;	-	-