



# ASI-X PACKER

## 5-3/4" X 2-3/8"

Manual No:  
**DL-603-5750-750**

Revision: **C**

Revision Date:  
**04/26/2019**

Authored by: J.Anderson

Approved by: J.McArthur

### A) DESCRIPTION

The ASI-X Single String Double-Grip Production Packer is the most versatile of the mechanically set retrievable packers and may be used in any production application. This packer is suited for treating, testing, or injection applications, in pumping or flowing wells, either deep or shallow. This packer can be left in tension or compression depending on well conditions and the required application.

A large internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set and opens prior to releasing the upper slips when retrieving to allow pressure equalization. The J-slot design allows easy setting and releasing; 1/4 turn right-hand set, 1/4 turn right-hand release.

The standard ASI-X Packer is designed for differential pressures up to 7,000 PSI (unless noted otherwise). This packer is also available in an HT version which is designed for differential pressures up to 10,000 PSI (unless noted otherwise). The HT version allows this packer to be utilized in completions where high pressure treating operations are performed and it is desirable to leave the tool in the well for production.

### B) RELATED TOOLS (sold separately)

B-1) 2-3/8" DT-2 On/Off Tool—refer to technical manual DL-515-2375-1028.

B-2) 2-3/8" Stinger—actual P/N varies depending on customer requirements.

### C) SPECIFICATION GUIDE

| CASING           |                    |                                      | TOOL                |                        | THREAD CONNECTION<br>BOX UP / PIN DOWN | PART<br>NUMBER   |
|------------------|--------------------|--------------------------------------|---------------------|------------------------|--|--|
| SIZE<br>(INCHES) | WEIGHT<br>(LBS/FT) | RECOMMENDED<br>HOLE SIZE<br>(INCHES) | GAGE OD<br>(INCHES) | NOMINAL ID<br>(INCHES) |  |  |
| 5-3/4            | 15.0 – 16.1        | 5.201 – 5.240                        | 5.000               | 2.00                   | 2-3/8 EUE                              | 60357X<br>60357XH <sup>1</sup><br>60357XV <sup>2</sup> |
|                  | 17.6 – 19.4        | 5.083 – 5.146                        | 4.875               | 2.00                   | 2-3/8 EUE                              | 60357Y<br>60357YH <sup>1</sup><br>60357YV <sup>2</sup> |

Elastomer Trim Options: <sup>1</sup>HSN, <sup>2</sup>Viton

**NOTE<sub>1</sub>:** Tools listed are right-hand set / right-hand release.

**NOTE<sub>2</sub>:** Use of a Double Hook J-slot Packer is recommended when running with a pumpjack to help prevent the packer from unsetting during well production.

| DIFFERENTIAL<br>PRESSURE<br>(MAX) | TENSILE LOAD<br>THRU TOOL<br>(MAX) |
|-----------------------------------|------------------------------------|
| 7,000 PSI                         | 64,000 LBS                         |

D & L OIL TOOLS  
P.O. BOX 52220 TULSA, OK 74152  
PHONE: (800) 441-3504 [www.dloiltools.com](http://www.dloiltools.com)



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## D) PRE-INSTALLATION INSPECTION PROCEDURES

**CAUTION1:** D&L ships tool connections made-up **HAND TIGHT**—labeled with hand-tight tape on the tool (Fig. 1) — unless stated otherwise. Tighten/torque all connections properly before operating tool.



Fig. 1

| GENERAL THREAD CONNECTION TORQUE RECOMMENDATIONS |                                 |                     |  |
|--|---------------------------------|---------------------|--|
| STUB ACME /<br>ACME THREADS                      | INTERNAL TAPERED TUBING THREADS |                     | PREMIUM THREADS                                |
|  | UP TO 2-3/8"                    | GREATER THAN 2-3/8" |  |
| 600 – 800 FT-LBS                                 | 600 – 800 FT-LBS                | 800 – 1,200 FT-LBS  | Consult thread manufacturer's recommendations. |

| GENERAL SCREW TORQUE RECOMMENDATIONS |       |         |         |         |         |          |           |           |                   |
|--------------------------------------|-------|---------|---------|---------|---------|----------|-----------|-----------|-------------------|
| SCREW SIZE<br>(INCHES)               | #6    | #8      | #10     | 1/4     | 5/16    | 3/8      | 7/16      | 1/2       | 5/8 and<br>larger |
| TORQUE RANGE<br>(INCH-POUNDS)        | 5 – 8 | 10 – 15 | 18 – 25 | 25 – 40 | 50 – 80 | 90 – 135 | 160 – 210 | 250 – 330 | 450 – 650         |

Before first use, D&L recommends disassembly and inspection of the tools unless stated otherwise. Ensure parts have not been damaged during shipping. Replace damaged parts with D&L replacement parts. Contact D&L sales for replacement part information.

Re-assemble the tool after inspection. Install parts in the correct order and orientation. Properly tighten connections.

Before re-using the tool, D&L recommends disassembly and inspection of the tool. Clean parts and ensure parts are in good working condition. Replace worn or damaged parts with D&L replacement parts.

When redressing the tool, D&L recommends replacement of all seals, elements, o-rings, shear screws, etc. Contact D&L sales for redress kit and/or other part information.

## E) SETTING PROCEDURES

**CAUTION2:** Do not run the tool without properly tightening connections. Running the tool with loose connections may damage the tool and cause malfunction.

### E-1) COMPRESSION SET

Run the packer to setting depth. Pick up the work string to allow for setting stroke (12-13") plus desired work string load. Rotate the work string 1/4 right-hand turn at the packer, and then lower the work string while releasing torque. Slack off on the work string sufficient weight to set the packer (12,000 lbs). Pull tension to assure that the upper slips are set. The work string can then be left in tension, compression or neutral. If insufficient weight is available to set the packer with compression, tension can be applied after slack-off to pack off the elements.

### E-2) TENSION SET

Run to setting depth, pick up on the work string and rotate 1/4 turn to the right at the packer then lower the work string slacking off available weight to set the packer lower slips. Pull tension to set upper slips and pack off elements (12,000 lbs). After setting the packer, the tubing can be left in compression, tension or neutral.



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### F) RELEASING PROCEDURES

The releasing procedures are the same whether the packer has been tension or compression set. Set down weight on the packer to unseat the J-pin from the tension shoulder of the J-slot. Refer to the Pressure Affected Area Guide to determine necessary set down weight on the packer. Rotate the work string 1/4 right-hand turn at the packer and pick up while holding right-hand torque. Weight in addition to pipe weight may be required to pick up on packer - refer to Pressure Affected Area Guide. The internal by-pass will open, allowing pressure to equalize. After pressure is equalized, continue to pick up to release the upper slips, relax the elements and release the lower slips thus allowing the packer to be re-set or removed from the well.

**CAUTION:** High differential pressure below the ASI-X Packer may cause the upper slips to wedge in tighter, requiring an extra amount of tension to release the upper slips.

#### F-1) EMERGENCY RELEASE

If the packer will not release in the normal manner, apply hard right-hand torque (800-1,000 ft-lbs) to break the tack weld on the J-pin ring. Rotate the work string to the right approximately 15 turns to release the J-pin ring and retrieve the packer. When released in this manner, the packer will reset when moved down the hole.

### G) STORAGE RECOMMENDATIONS

When preparing the tool for storage, follow the Pre-Installation Inspection Procedures. Re-assemble the tool with connections hand-tight only and in running position if applicable. Elements should be in a relaxed state—free from tension, compression, and other stresses that could cause deformation.

Store the tool, if possible, in an enclosed, temperature and humidity controlled environment. Avoid excessively high temperatures over long periods of time. Shield elastomeric parts from ultraviolet light sources. Keep tool dry and protected from condensation. Do not store in contact with or near volatile or corrosive chemicals. Do not store near ozone generating equipment or operations such as welding.

### H) PRESSURE AFFECTED AREA GUIDE

| PACKER SIZE<br>(INCHES) | TUBING SIZE<br>(INCHES) | PRESSURE AFFECTED AREA<br>(SQ. INCHES) |              |
|-------------------------|-------------------------|--|--------------|
|                         |                         | ABOVE                                  | BELOW        |
| 5-3/4                   | 2.375                   | 0.916 (DOWN)                           | -2.220 (UP)  |
|                         | 2.875                   | -1.146 (UP)                            | -0.666 (UP)  |
|                         | 3.500                   | -4.275 (UP)                            | 1.685 (DOWN) |

**Example:** Consider a 5-3/4" X 2-3/8" set on 2.375 tubing with a differential pressure of 3,000 psi in the annulus around the tubing above the packer. What is the force acting on the seal area of the mandrel?

To calculate the force (lbs) acting on the seal area of the mandrel, refer to the Pressure Affected Area Guide for a 5-3/4" X 2-3/8" set on 2.375 tubing. In this example, the differential pressure from above the packer acts on the seal area of the packer mandrel across a pressure affected area of 0.916 in<sup>2</sup>. Multiplying the differential pressure (3,000 psi) by the pressure affected area (0.916 in<sup>2</sup>) results in a force of 2,748 lbs. The piston effect on the packer mandrel is a downward force of 2,748 lbs.



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### I) ELASTOMER TRIM TEMPERATURE GUIDE

| NITRILE (STD)          |                   |        |     |
|------------------------|-------------------|--------|-----|
| TEMPERATURE RANGE (F°) | DUROMETER         |        |     |
|                        | END               | MIDDLE | END |
| 40° - 125°             | 80                | 70     | 80  |
| 125° - 250°            | 90                | 70     | 90  |
| 150° - 250°            | 90                | 80     | 90  |
| 250° +                 | Contact D&L Sales |        |     |

| RUBBER TYPE | TEMPERATURE RANGE |
|-------------|-------------------|
| NITRILE     | 40° - 250°F       |
| HSN (HNBR)  | 70° - 300°F       |
| VITON       | 100° - 350°F      |

### J) RECOMMENDED TOOLS

#### J-1) HAND TOOLS

- VISE
- GLOVES
- ALLEN WRENCHES
- TAPE MEASURE
- O-RING PICK
- BAR
  - 1/2-INCH
  - 3/4-INCH
- PAINT BRUSH, 2-INCH
- PIPE WRENCH, 3-FT (2 EA)
- "CHEATER" PIPE, 4-FT LONG
- ADJUSTABLE WRENCH, 12-INCH
- CORDLESS DRILL, 18V
- SNAP RING SPREADER PLIERS
- ALIGNING PUNCH
- SCREWDRIVER SET, FLAT-TIPPED
- SOCKET SETS
  - 3/8-INCH DRIVE
  - 1/2-INCH DRIVE
- HAMMERS
  - SLEDGE
  - BALL PEEN
  - DEAD BLOW

#### J-2) SPECIAL TOOLS

| ITEM | QTY | DESCRIPTION              | PART NUMBER |
|------|-----|--------------------------|-------------|
| T1   | 1   | DRAW BLOCK ASSEMBLY TOOL | AT055110    |

### K) DISASSEMBLY

K-1) Clamp top sub (1) in vise.

K-1.1) Unscrew and remove set screws (28) from J-pin bottom sub (23). Move J-body (20) as needed to access screws.

K-1.2) Unscrew and remove J-pin bottom sub (23) from inner mandrel (2).

**NOTE3:** Drag block body assembly must be free to rotate.

K-1.2.1) Remove o-ring (32) from J-pin bottom sub (23).

K-1.3) Compress drag blocks (22) with drag block assembly tool (T1).

K-1.4) Unscrew and remove set screws (30) from J-body (20).

K-1.5) Unscrew and remove J-body (20) from drag block body (18) (**NOTE4:** Left-hand threads).

K-1.6) Remove drag block retainer (21) from drag block body (18).

K-1.7) Release drag blocks (22). Remove drag blocks (22) and drag block springs (3) from drag block body (18).

K-1.8) Unscrew and remove rubber mandrel cap (19) from rubber mandrel (11).

**NOTE5:** For added leverage, insert rod through rubber retainer (15) and rubber mandrel (11) as needed.

K-1.9) Wedge lower slips (17) outward (if needed). Remove drag block body assembly and disassemble:

K-1.9.1) Remove wedges (if needed). Remove lower slips (17) and lower slip springs (25) from drag block body (18).

K-1.10) Unscrew and remove lower cone (16) from rubber retainer (15).

K-1.11) Unscrew rubber mandrel (11) from center coupling (10).



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### K) DISASSEMBLY (cont'd)

K-1.12) Remove rubber mandrel assembly and disassemble:

K-1.12.1) Remove gage ring (29), elements (13, 14), rubber spacers (12), and rubber retainer (15) from rubber mandrel (11).

K-1.13) Unscrew and remove center coupling (10) from upper cone (9).

K-1.13.1) Remove bonded seal (24) and o-ring (33) from center coupling (10).

K-1.13.1.1) Remove o-ring (31) from bonded seal (24).

K-1.14) Remove upper cone (9) from inner mandrel (2).

K-2) Unclamp and remove top sub (1) from vise. Clamp lower end of inner mandrel (2) in vise.

**CAUTION:** Do NOT wrench or clamp on seal surface.

K-2.1) Unscrew and remove spring cage cap (27) from spring cage (5).

**CAUTION:** Compression spring (4) is compressed with spring tension against upper slip body assembly.

K-2.2) Unscrew and remove top sub (1) from inner mandrel (2).

K-2.3) Remove compression spring (4) from spring cage (5).

K-2.4) Unscrew and remove spring cage (5) from upper slip body (6).

K-2.5) Wedge releasing slip (7) and upper slips (8) outwards (if needed). Remove upper slip body assembly and disassemble:

K-2.5.1) Remove wedges (if needed). Remove releasing slip (7), upper slips (8), and upper slip springs (26) from upper slip body (6).

K-3) Unclamp and remove inner mandrel (2) from vise.

### L) ASSEMBLY

**NOTE:** Clean and inspect all parts. Replace all worn and damaged parts. Install parts in proper order, and orientation and tighten/torque all connections properly.

**CAUTION:** To ensure tool operates properly, install o-rings in o-ring grooves NOT thread reliefs (Fig. 2).

L-1) Clamp inner mandrel (2) in vise.

**CAUTION:** Do NOT wrench or clamp on seal surface.

L-1.1) Assemble upper slip body assembly and install:

L-1.1.1) Install upper slips (8), releasing slip (7), and upper slip springs (26) into upper slip body (6). Wedge slips outwards.

**NOTE:** Install two (2ea) springs per slip (Fig. 3).

L-1.1.2) Install upper slip body (6) onto inner mandrel (2). Remove wedges.

L-1.2) Screw spring cage (5) into upper slip body (6).

L-1.3) Install compression spring (4) into spring cage (5).

L-1.4) Screw top sub (1) onto inner mandrel (2).

L-1.5) Screw spring cage cap (27) onto spring cage (5).

**CAUTION:** Compression spring (4) will be compressed with spring tension against upper slip body assembly.

L-2) Unclamp and remove inner mandrel (2) from vise. Clamp top sub (1) in vise.

L-2.1) Install upper cone (9) onto inner mandrel (2).

L-2.2) Install o-ring (33) into o-ring groove in center coupling (10).

L-2.3) Install o-ring (31) into o-ring groove in bonded seal (24).

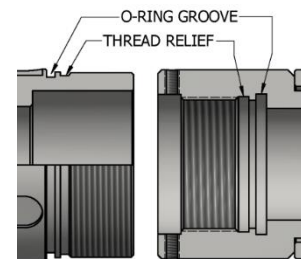


Fig. 2

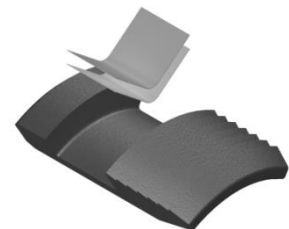


Fig. 3



# ASI-X PACKER

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### L) ASSEMBLY (cont'd)

- L-2.4) Install bonded seal (24) into center coupling (10).

**CAUTION7:** Do not rip or tear o-ring during installation.

- L-2.5) Screw center coupling (10) into upper cone (9).

- L-2.6) Assemble rubber mandrel assembly and install:

- L-2.6.1) Install rubber retainer (15), elements (13, 14), rubber spacers (12), and gage ring (29) onto rubber mandrel (11).

- L-2.6.2) Install rubber mandrel assembly onto inner mandrel (2) and screw into center coupling (10).

**CAUTION7:** Do not rip or tear o-ring during installation.

- L-2.7) Screw lower cone (16) into rubber retainer (15).

- L-2.8) Assemble drag block body assembly and install:

- L-2.8.1) Install lower slips (17) and lower slip springs (25) into drag block body (18). Wedge slips outward.

**NOTE8:** Install two (2ea) springs per slip (Fig. 4).

- L-2.8.2) Install drag block body assembly onto rubber mandrel (11).

- L-2.9) Screw rubber mandrel cap (19) onto rubber mandrel (11).

**NOTE5:** For added leverage, insert rod through rubber retainer (15) and rubber mandrel (11) as needed.

- L-2.10) Install drag blocks (22) and drag block springs (3) into drag block body (18). Compress blocks with drag block assembly tool (T1).

**NOTE9:** Install four (4ea) springs per drag block (Fig. 5).

- L-2.11) Install drag block retainer (21) onto drag block body (18) to capture ends of drag blocks (22).

- L-2.12) Screw J-body (20) onto drag block body (18) (**NOTE4:** Left-hand threads).

- L-2.13) Screw set screws (30) into J-body (20). Release drag blocks (22).

- L-2.14) Install o-ring (32) into o-ring groove in J-pin bottom sub (23).

- L-2.15) Screw J-pin bottom sub (23) onto inner mandrel (2).

**CAUTION7:** Do not rip or tear o-ring during installation.

**NOTE3:** Drag block body assembly must be free to rotate.

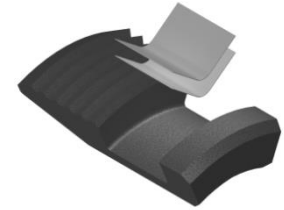


Fig. 4

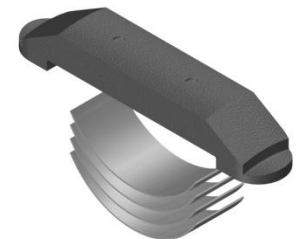


Fig. 5

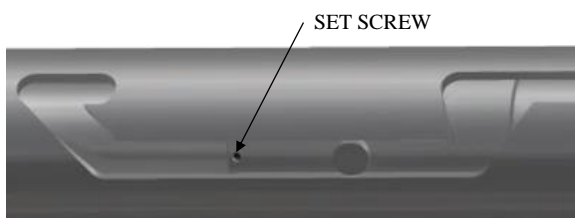


Fig. 6

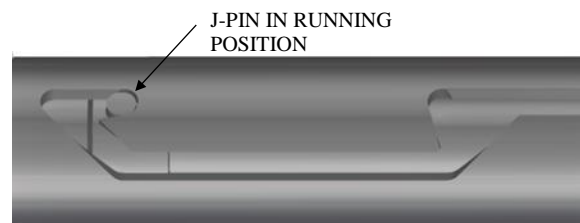


Fig. 7

- L-2.16) Rotate J-body (20) as needed to position J-pin of J-pin bottom sub (23) along J-slot to access threaded holes (Fig. 6). Screw set screws (28) into J-pin bottom sub (23).

- L-2.17) Position J-pin of J-pin bottom sub (23) in running position in J-slot of J-body (20) (Fig. 7).

- L-3) Unclamp top sub (1) from vise and remove assembled tool.



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### M) PARTS LIST

| ITEM | QTY | DESCRIPTION         | MATERIAL                 | 15.0-16.1#<br>P/N 60357X | 17.6-19.4#<br>P/N 60357Y |
|------|-----|---------------------|--------------------------|--------------------------|--------------------------|
| 1    | 1   | TOP SUB             | -                        | 60155610                 | 60055610                 |
| 2    | 1   | INNER MANDREL       | DLMS80                   | 60357210                 |                          |
| 3    | 16  | DRAG BLOCK SPRING   | -                        | 9100900                  |                          |
| 4    | 1   | COMPRESSION SPRING  | DLMCRSP                  | 60355920                 |                          |
| 5    | 1   | SPRING CAGE         | DLMS60                   | 60155310                 | 60355310                 |
| 6    | 1   | UPPER SLIP BODY     | -                        | 60057X320                | 60055320                 |
| 7    | 1   | RELEASING SLIP      | DLMS110                  | 60057X125                | 60057Y125                |
| 8    | 2   | UPPER SLIP          | DLMS35                   | 60057X115                | 60057Y115                |
| 9    | 1   | UPPER CONE          | DLMS60                   | 60357X410                | 60355410                 |
| 10   | 1   | CENTER COUPLING     | -                        | 60357X620                | 60355620                 |
| 11   | 1   | RUBBER MANDREL      | DLMS60                   | 60057220                 |                          |
| 12   | 2   | RUBBER SPACER       | DLMS35                   | 60257X840                | 60257Y840                |
| 13   | 1   | ELEMENT             | 70 DURO NITRILE          | 60257X511                | 60257Y511                |
| 14   | 2   | ELEMENT             | 90 DURO NITRILE          | 60257X513                | 60257Y513                |
| 15   | 1   | RUBBER RETAINER     | DLMS60                   | 60257X850                | 60257Y850                |
| 16   | 1   | LOWER CONE          | -                        | 60057X420                | 60055420                 |
| 17   | 4   | LOWER SLIP          | DLMS35                   | 60057X135                | 60057Y135                |
| 18   | 1   | DRAG BLOCK BODY     | DLMS35                   | 60057X335                | 60057Y335                |
| 19   | 1   | RUBBER MANDREL CAP  | DLMS60                   | 60155230                 | 60055230                 |
| 20   | 1   | J-BODY              | DLMS80                   | 60155340                 | 60355340                 |
| 21   | 1   | DRAG BLOCK RETAINER | DLMS60                   | 60057X910                | 60057Y910                |
| 22   | 4   | DRAG BLOCK          | DLMSDB8                  | 9057900                  | 9056900                  |
| 23   | 1   | J-PIN BOTTOM SUB    | DLMS110 / DLMS60         | 60355650                 |                          |
| 24   | 1   | BONDED SEAL         | DLMS60 / 90 DURO NITRILE | 60055520                 |                          |



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### M) PARTS LIST (cont'd)

| ITEM | QTY | DESCRIPTION                 | MATERIAL        | 15.0-16.1#<br>P/N 60357X | 17.6-19.4#<br>P/N 60357Y |
|------|-----|-----------------------------|-----------------|--------------------------|--------------------------|
| 25   | 8   | LOWER SLIP SPRING           | -               | 7155901                  |                          |
| 26   | 6   | UPPER SLIP SPRING           | -               | 7155902                  |                          |
| 27   | 1   | SPRING CAGE CAP             | 1026            | 60157X810                | 60057Y810                |
| 28   | 2   | SET SCREW 1/4-20 UNC X 3/8  | STEEL           | SSS025C037               |                          |
| 29   | 1   | GAGE RING                   | 1026            | 60257X830                | 60257Y830                |
| 30   | 4   | SET SCREW 5/16-18 UNC X 1/2 | STEEL           | SSS031C050               |                          |
| 31   | 1   | 149 O-RING                  | 90 DURO NITRILE | 90149                    |                          |
| 32   | 1   | 228 O-RING                  | 90 DURO NITRILE | 90228                    |                          |
| 33   | 1   | 234 O-RING                  | 90 DURO NITRILE | 90234                    |                          |

|                   |  |           |           |
|-------------------|--|-----------|-----------|
| REDRESS KIT (RDK) |  | 60357X050 | 60357Y050 |
| ASSEMBLED WEIGHT  |  | 220 LBS   | 197 LBS   |

### M-1) ELASTOMER TRIM OPTIONS

**NOTE<sub>10</sub>:** For temperature range, refer to Elastomer Trim Temperature Guide.

#### M-1.1) HSN

| ITEM | QTY | DESCRIPTION | MATERIAL    | 15.0-16.1#<br>P/N 60357XH | 17.6-19.4#<br>P/N 60357YH |
|------|-----|-------------|-------------|---------------------------|---------------------------|
| 13   | 1   | ELEMENT     | 70 DURO HSN | 60257X511H                | 60257Y511H                |
| 14   | 2   | ELEMENT     | 90 DURO HSN | 60257X513H                | 60257Y513H                |
| 24   | 1   | BONDED SEAL | 90 DURO HSN | 60055520H                 |                           |
| 31   | 1   | 149 O-RING  | 90 DURO HSN | 90149H                    |                           |
| 32   | 1   | 228 O-RING  | 90 DURO HSN | 90228H                    |                           |
| 33   | 1   | 234 O-RING  | 90 DURO HSN | 90234H                    |                           |

|                   |  |            |            |
|-------------------|--|------------|------------|
| REDRESS KIT (RDK) |  | 60357X050H | 60357Y050H |
|-------------------|--|------------|------------|





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### M) PARTS LIST (cont'd)

#### M-1.2) VITON

| ITEM | QTY | DESCRIPTION | MATERIAL      | 15.0-16.1#<br>P/N 60357XV | 17.6-19.4#<br>P/N 60357YV |
|------|-----|-------------|---------------|---------------------------|---------------------------|
| 13   | 1   | ELEMENT     | 70 DURO VITON | 60257X511V                | 60257Y511V                |
| 14   | 2   | ELEMENT     | 90 DURO VITON | 60257X513V                | 60257Y513V                |
| 24   | 1   | BONDED SEAL | 90 DURO VITON | 60055520V                 |                           |
| 31   | 1   | 149 O-RING  | 90 DURO VITON | 90149V                    |                           |
| 32   | 1   | 228 O-RING  | 90 DURO VITON | 90228V                    |                           |
| 33   | 1   | 234 O-RING  | 90 DURO VITON | 90234V                    |                           |

|                   |  |            |            |
|-------------------|--|------------|------------|
| REDRESS KIT (RDK) |  | 60357X050V | 60357Y050V |
|-------------------|--|------------|------------|



# ASI-X PACKER

5-3/4" X 2-3/8"

Manual No:  
**DL-603-5750-750**

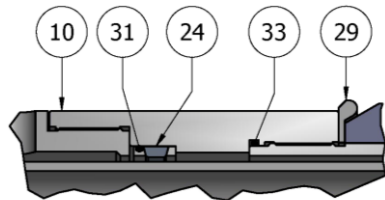
Revision: **C**

Revision Date:  
**04/26/2019**

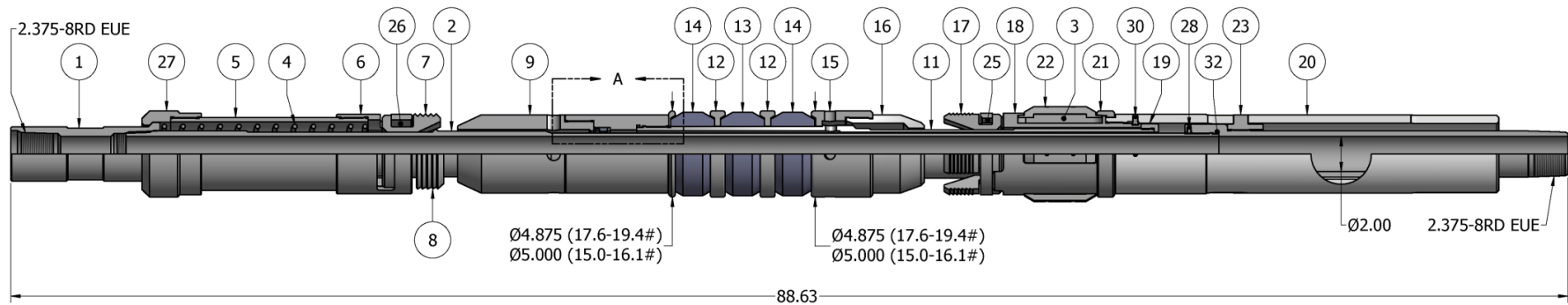
Authored by: J.Anderson


Approved by: J.McArthur

## N) TECHNICAL ILLUSTRATION



DETAIL A



|  |  |  |                                     |  |
|--|--|--|-------------------------------------|--|
|  | <h1>ASI-X PACKER</h1> <h2>5-3/4" X 2-3/8"</h2> |  | Manual No:                          |  |
|  |  |  | <b>DL-603-5750-750</b>              |  |
|  |  |  | Revision: C                         |  |
|  |  |  | Revision Date:<br><b>04/26/2019</b> |  |
| Authored by: J.Anderson  |  |  | Approved by: J.McArthur             |  |

### O) REVISION HISTORY

| DATE       | REVISION | DESCRIPTION OF CHANGES                                    | REVISED BY | APPROVED BY |
|------------|----------|---|------------|-------------|
| 04/26/2019 | C        | Removed tool drift ID; Revised Elastomer Trim Temp. Guide | J.Anderson | Z.Speer     |
| 10/10/14   | B        | Added P/N's 60357X, 60357XH and 60357XV to manual.        | D.Barlow   | K.Plunkett  |
| 09/18/14   | A        | Created new manual  | -          | -           |