



# HD RETRIEVABLE PACKER RIGHT-HAND AUTO

4-1/2" X 2-3/8" (11.6 – 15.1#), NC 26 TOOL JOINT

Manual No:  
**DL-613-4500-1711**

Revision: **A**

Revision Date:  
**10/24/2023**

Authored by: J.Anderson

Approved by: E.Visaez

## A) DESCRIPTION

The HD Retrievable Packer is a heavy duty service packer ideally suited for all types of squeeze cementing, formation fracturing, high pressure acidizing, etc. It is a large opening compression set packer with hydraulic button-type hold down. This packer withstands high pressure from above or below and uses a 3-element packing system, J-slot, and a drag block mechanism for easy setting. This packer has a built-in unloader which circulates across the hold down buttons to improve retrievability and run in performance.

## B) SPECIFICATION GUIDE

CASING			TOOL		THREAD CONNECTIONS BOX UP / PIN DOWN	PART NUMBER
SIZE (INCHES)	WEIGHT (LBS/FT)	RECOMMENDED HOLE SIZE (INCHES)	GAGE OD (INCHES)	NOMINAL ID (INCHES)		
4-1/2	11.6 – 15.1	3.826 – 4.000	3.656	1.75	NC 26 TOOL JOINT	61346RS-XBEA 61346RSH-XBEA <sup>1</sup> 61346RSV-XBEA <sup>2</sup> 61346RSFV-XBEA <sup>3</sup>

Elastomer Trim Options: <sup>1</sup>HSN, <sup>2</sup>Viton, <sup>3</sup>F-Type Viton

**NOTE1:** Tools listed are right-hand set/ straight pick-up release. Additional configurations are available. Contact D&L Sales for more information.

DIFFERENTIAL PRESSURE (MAX)	TENSILE LOAD THRU TOOL (MAX)	HANGING WEIGHT (MAX)	TORQUE (MAX)
10,000 PSI	58,000 LBS	58,000 LBS*	2,000 FT-LBS

\*Casing must be cemented for this load rating.

**CAUTION1:** Before running the tool, check the pressure affected areas chart, and consider other effects to be certain that the unloader will remain closed during operation.

**CAUTION2:** If the HD Packer is run with a retrievable bridge plug, make sure the bridge plug J-slot is compatible with the J-slot on the packer. Whichever direction you set the plug, the packer should set in the opposite direction.

## C) PRE-INSTALLATION INSPECTION PROCEDURES

**CAUTION3:** D&L ships tool connections made-up hand-tight—labeled with hand-tight tape on the tool—unless stated otherwise. Properly tighten connections before operating tool (Fig. 1).



Fig. 1

GENERAL THREAD CONNECTION TORQUE RECOMMENDATIONS			
STUB ACME / 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.

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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**C) PRE-INSTALLATION INSPECTION PROCEDURES (cont'd)**

GENERAL SCREW TORQUE RECOMMENDATIONS									
SCREW SIZE (INCHES)	#6	#8	#10	1/4	5/16	3/8	7/16	1/2	5/8 and larger
TORQUE RANGE (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 tool 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 replacement part information.

**D) SETTING PROCEDURES**

**CAUTION4:** Do not run the tool without properly tightening connections. Running the tool with loose connections may damage the tool and cause malfunction.

Run to setting depth. The unloader remains open while running in. Pick up the work string and rotate right-hand 1/4 turn at the packer. Slack off weight and set down on the packer to set the slips, close the unloader and compress the packing elements. A minimum weight of 10,000 lbs. at the packer is required to pack off the elements.

**CAUTION5:** Run the tool slowly, as with any hold down type packer, to help prevent dulling of the hydraulic buttons.

**E) RELEASING PROCEDURES**

Pick up on the tubing to open the unloader, allowing time for the tubing and casing pressure to equalize. Continued upward movement of the work string unsets the slips, relaxes the packing elements and re-jays the packer. The tool may now be moved and reset, or pulled from the well.

**F) 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. Elastomers should be in a relaxed state—free from tension, compression or other 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.



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## G) PRESSURE AFFECTED AREA GUIDE

When set downhole, the packer mandrel is subjected to a force created by differential pressure above or below the packer that acts on the pressure affected area (i.e., the piston effect). Depending on the tubing size and weight and the seal area of the packer the force created by differential pressure acts upwards or downwards on the packer mandrel. An upward force, designated as a negative (-) value, acts to push the packer mandrel up hole and must be accounted for to ensure that the packer remains set. A downward force, designated as a positive value, acts to push the packer mandrel down hole and must be accounted for when releasing the packer. Other factors (e.g., tubing movement due to temperature change) must be considered separately to determine all the forces acting on the packer.

PACKER SIZE (IN)	TUBING TO PACKER			PRESSURE AFFECTED AREA (IN <sup>2</sup> )	
	SIZE (IN)	WEIGHT (LB/FT)	ID (IN)	ABOVE	BELOW
4-1/2	1.900	2.40	1.650	1.373 (DOWN)	0.286 (DOWN)
		2.90	1.610	1.373 (DOWN)	0.184 (DOWN)
	2.375	4.00	2.041	-0.222 (UP)	1.420 (DOWN)
		4.70	1.995	-0.222 (UP)	1.274 (DOWN)
		5.95	1.867	-0.222 (UP)	0.886 (DOWN)
	2.875	6.50	2.441	-2.284 (UP)	2.828 (DOWN)
		7.90	2.323	-2.284 (UP)	2.386 (DOWN)
		8.70	2.259	-2.284 (UP)	2.156 (DOWN)

**Example:** Consider a 4-1/2" X 2-3/8" HD Packer set on 2.375", 4.70 lbs/ft 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 4-1/2" X 2-3/8" HD Packer run on 2.375", 4.70 lbs/ft 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 -0.222 in<sup>2</sup>. Multiplying the differential pressure (3,000 PSI) by the pressure affected area (-0.222 in<sup>2</sup>) results in a force of -666 lbs. The piston effect on the packer mandrel is an upward force of 666 lbs.

## H) 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
F-TYPE VITON	100° - 400°F



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## I) RECOMMENDED TOOLS

### I-1) RECOMMENDED 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

### I-2) SPECIAL TOOLS

ITEM	QTY	DESCRIPTION	PART NUMBER
T1	1	DRAG BLOCK ASSEMBLY TOOL	AT045110
T2	1	BUTTON REMOVAL TOOL	AT-BRT000
T3	1 GAL	KOPR-KOTE® ANTI-SEIZE LUBRICANT	DL-KOPR-KOTE-1G

## J) DISASSEMBLY

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

- J-1.1) Unscrew and remove set screws (27) from bottom sub (33).
- J-1.2) Unscrew and remove bottom sub (33) from J-pin sub (28).
- J-1.3) Remove o-ring (40) from bottom sub (33).
- J-1.4) Compress drag blocks (22) with drag block assembly tool (T1).
- J-1.5) Unscrew and remove set screws (26) from J-body (20).
- J-1.6) Unscrew drag block body (18) from J-body (20) (**NOTE<sub>2</sub>**: Left-hand threads). Slide drag block body assembly upwards on rubber mandrel (11) temporarily.
  - NOTE<sub>3</sub>**: Drag block body assembly must be free to rotate.
- J-1.7) Unscrew and remove set screws (34) from J-pin sub (28). Move J-body (20) as needed to access set screws (27).
- J-1.8) Unscrew and remove J-pin sub (28) from inner mandrel (2).
  - J-1.8.1) Remove o-ring (36) from J-pin sub (28).
  - J-1.8.2) Remove J-body (20) from J-pin sub (28).
- J-1.9) Release drag blocks (22). Remove drag blocks (22) and drag block springs (3) from drag block body (18).
- J-1.10) Unscrew and remove rubber mandrel cap (19) from rubber mandrel (11).
- J-1.11) Wedge slips outwards (if needed). Remove drag block body assembly from rubber mandrel (11) and disassemble:
  - J-1.11.1) Remove wedges (if needed). Remove lower slips (17) and lower slip springs (25) from drag block body (18).
- J-1.12) Unscrew and remove lower cone (16) from rubber retainer (15).
  - NOTE<sub>4</sub>**: For added leverage, insert a rod through rubber retainer (15) and rubber mandrel (11) as needed.
- J-1.13) Unscrew rubber mandrel (11) from valve body (32).
- J-1.14) Remove rubber mandrel assembly from inner mandrel (2) and disassemble:
  - J-1.14.1) Remove elements (13, 14), rubber spacers (12) and rubber retainer (15) from rubber mandrel (11).



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## J) DISASSEMBLY (cont'd)

- J-1.15) Unscrew and remove valve body (32) from central body (10)
  - J-1.15.1) Remove o-ring (38) from valve body (32).
- J-1.16) Unscrew and remove central body (10) from hold down body (6).
- J-2) Unclamp and remove top sub (1) from vise and clamp inner mandrel (2) in vise.  
**CAUTION:** Do **NOT** wrench or clamp on seal surface.
  - J-2.1) Unscrew and remove set screws (27) from top sub (1).
  - J-2.2) Unscrew and remove top sub (1) from inner mandrel (2).
    - J-2.2.1) Remove o-ring (37) from top sub (1).
  - J-2.3) Unscrew and remove hold down cap (9) from hold down body (6).
    - J-2.3.1) Remove o-ring (44) from hold down cap (9).
  - J-2.4) Slide strap retainer (23) temporarily down and out-of-the-way on hold down body (6).
  - J-2.5) Unscrew and remove flat head cap screws (29). Remove hold down straps (31) from hold down body (6).
  - J-2.6) Remove hold down button springs (8) from hold down buttons (7).
  - J-2.7) Remove hold down buttons (7) from hold down body (6) with button removal tool (T2).
    - J-2.7.1) Remove o-rings (35) from hold down buttons (7).
  - J-2.8) Remove hold down body (6) from inner mandrel (2).
    - J-2.8.1) Remove o-rings (42, 43) from hold down body (6).
    - J-2.8.2) Remove strap retainer (23) from hold down body (6).
  - J-2.9) Remove compensating piston (5) from compensating mandrel (4).
    - J-2.9.1) Remove o-rings (39, 41) from compensating piston (5).
  - J-2.10) Unscrew and remove compensating mandrel (4) from seal receptacle (30).
- J-3) Unclamp inner mandrel (2) and remove from vise.
  - J-3.1) Remove seal receptacle (30) from inner mandrel (2).
    - J-3.1.1) Remove o-ring (39) from seal receptacle (30).
    - J-3.1.2) Unscrew and remove seal retainer (21) from seal receptacle (30).
      - J-3.1.2.1) Remove o-ring (38) and quad seal (24) from seal retainer (21).

## K) ASSEMBLY

**NOTE6:** Clean and inspect all parts. Replace all worn and damaged parts. Install parts in proper order, and orientation and tighten/torque all connections properly.

**NOTE7:** Apply KOPR-KOTE anti-seize lubricant (T1) on STUB ACME and drill pipe connections when making up connections.

**CAUTION6:** To ensure tool operates properly, install o-rings in o-ring grooves **NOT** thread reliefs unless stated otherwise (Fig. 2).

K-1) Assemble seal receptacle assembly and install:

- K-1.1) Install o-ring (38) in o-ring groove in seal retainer (21).
- K-1.2) Install quad seal (24) in groove in seal retainer (21).
- K-1.3) Screw seal retainer (21) onto seal receptacle (30).

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

- K-1.4) Install o-ring (39) in o-ring groove in seal receptacle (30).
- K-1.5) Install seal receptacle assembly onto inner mandrel (2).

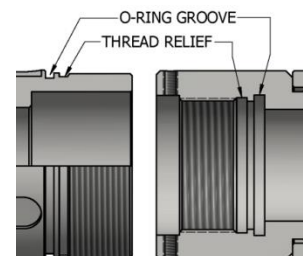


Fig. 2



# HD RETRIEVABLE PACKER RIGHT-HAND AUTO 4-1/2" X 2-3/8" (11.6 – 15.1#), NC 26 TOOL JOINT

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## K) ASSEMBLY (cont'd)

K-2) Clamp lower end of inner mandrel (2) in vise.

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

K-2.1) Install compensating mandrel (4) onto upper end of inner mandrel (2) and screw into seal receptacle (30).

K-2.2) Install o-rings (39, 41) in o-ring grooves in compensating piston (5).

K-2.3) Install compensating piston (5) onto compensating mandrel (4).

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

K-2.4) Loosely install strap retainer (23) onto inner mandrel (2).

K-2.5) Install o-rings (42, 43) in o-ring grooves in hold down body (6).

K-2.6) Install hold down body (6) onto inner mandrel (2).

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

K-2.7) Install o-rings (35) in o-ring grooves in hold down buttons (7).

K-2.8) Install hold down buttons (7) and hold down button springs (8) into hold down body (6) (Fig. 3 and 4).

**CAUTION:** Do not rip or tear o-rings during installation.

**NOTE:** Install two (2ea) springs per hold down button (Fig. 4).

K-2.9) Set hold down straps (31) in slots in hold down buttons (7) and hold down body (6) (Fig. 4).

K-2.10) Screw flat head cap screws (29) into hold down body (6) (Fig. 4).

K-2.11) Install strap retainer (23) onto hold down body (6) to capture ends of hold down straps (31).

K-2.12) Install o-ring (44) in o-ring groove in hold down cap (9).

K-2.13) Screw hold down cap (9) onto hold down body (6) to capture ends of hold down straps (31).

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

K-2.14) Install o-ring (37) in o-ring groove in top sub (1).

K-2.15) Screw top sub (1) onto inner mandrel (2).

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

K-2.16) Screw set screws (27) into top sub (1).

K-3) Unclamp and remove inner mandrel (2) from vise and clamp top sub (1) in vise.

K-3.1) Screw central body (10) onto hold down body (6).

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

K-3.2) Install o-ring (38) in o-ring groove in valve body (32).

K-3.3) Screw valve body (32) into central body (10).

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

K-3.4) Assemble rubber mandrel assembly and install:

K-3.4.1) Install rubber retainer (15), rubber spacers (12), and elements (13, 14), onto rubber mandrel (11).

K-3.4.2) Screw rubber mandrel (11) of rubber mandrel assembly into valve body (32).

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

K-3.5) Screw lower cone (16) into rubber retainer (11).

K-3.6) Assemble drag block body assembly and install:

K-3.6.1) Install lower slips (17) and lower slip springs (25) into drag block body (18). Wedge slips outward.

**NOTE:** Install one (1ea) spring per slip.



Fig. 3

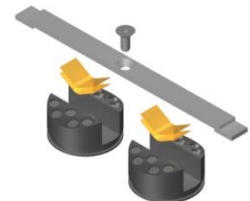


Fig. 4



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## K) ASSEMBLY (cont'd)

K-3.6.2) Install drag block body assembly onto rubber mandrel (11).

K-3.7) Screw rubber mandrel cap (19) onto rubber mandrel (11).

**NOTE<sub>4</sub>**: For added leverage, insert a rod through rubber retainer (15) and rubber mandrel (11) as needed.

K-3.8) Install drag block springs (3) and drag blocks (22) in drag block body (18). (Fig. 5) Compress drag blocks (22) with drag block assembly tool (T1).

**NOTE<sub>10</sub>**: Install four (4ea) springs per drag block (Fig. 5).

K-3.9) Screw J-body (20) onto drag block body (18) capturing ends of drag blocks (22) (**NOTE<sub>2</sub>**: Left-hand threads).

K-3.10) Screw set screws (26) into J-body (20). Remove drag block assembly tool (T1). Remove wedges.

K-3.11) Install o-ring (36) in o-ring groove in J-pin sub (28).

K-3.12) Screw J-pin sub (28) onto inner mandrel (2).

**CAUTION<sub>7</sub>**: Do not rip or tear o-ring during installation.

**NOTE<sub>3</sub>**: Drag block body assembly must be free to rotate.

K-3.13) Screw set screws (34) into J-pin sub (28). Move J-body (20) as needed to access threaded holes.

K-3.14) Install o-ring (40) in o-ring groove in bottom sub (33).

K-3.15) Screw bottom sub (33) onto J-pin sub (28).

**CAUTION<sub>7</sub>**: Do not rip or tear o-ring during installation.

K-3.16) Screw set screws (27) into bottom sub (33).

K-4) Remove top sub (1) from vise and remove assembled tool.



Fig. 5

## L) PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RS-XBEA
1	1	TOP SUB	DLMS110	61346615-YBEA
2	1	INNER MANDREL	DLMS110	61346215
3	20	DRAG BLOCK SPRING	-	9100900
4	1	COMPENSATING MANDREL	DLMS110	61346240
5	1	COMPENSATING PISTON	DLMS110	61346710
6	1	HOLD DOWN BODY	DLMS110	61346321
7	8	HOLD DOWN BUTTON	DLMSSP	61345140C
8	16	HOLD DOWN BUTTON SPRING	-	61345975
9	1	HOLD DOWN CAP	DLMS110	61346370
10	1	CENTRAL BODY	DLMS110	61346381
11	1	RUBBER MANDREL	DLMS110	61346220
12	2	RUBBER SPACER	DLMS60	60246840
13	1	ELEMENT	80 DURO NITRILE	60246512



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## L) PARTS LIST (cont'd)

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RS-XBEA
14	2	ELEMENT	90 DURO NITRILE	60246513
15	1	RUBBER RETAINER	DLMS60	60246850
16	1	LOWER CONE	DLMS110	60046420HT
17	4	CARBIDE LOWER SLIP	DLMS110	60045135C
18	1	DRAG BLOCK BODY	DLMS110	61346335
19	1	RUBBER MANDREL CAP	DLMS80	61346230
20	1	J-BODY	DLMS110	61346340
21	1	SEAL RETAINER	DLMS110	61346530
22	5	CARBIDE DRAG BLOCK	DLMSDB4	9045900C
23	1	STRAP RETAINER	DLMS110	61346650
24	1	QUAD SEAL	90 DURO NITRILE	61346520
25	4	LOWER SLIP SPRING	-	7145901
26	4	1/4-20 UNC X 3/8 SOCKET SET SCREW	STEEL	SSS025C037
27	6	3/8-16 UNC X 3/8 SOCKET SET SCREW	STEEL	SSS037C037
28	1	J-PIN SUB	DLMS110	61346630
29	4	#10-24 UNC X 1/2 FLAT HEAD SOCKET CAP SCREW	STEEL	FHSC1024C050
30	1	SEAL RECEPTACLE	DLMS110	61346730
31	4	HOLD DOWN STRAP	DLMSFB4	61346360
32	1	VALVE BODY	DLMS110	61346350
33	1	BOTTOM SUB	DLMS110	61345635-YBEA
34	4	3/8-16 UNC X 5/16 SOCKET SET SCREW	STEEL	SSS037C031
35	8	125 O-RING	90 DURO NITRILE	90125
36	1	227 O-RING	90 DURO NITRILE	90227
37	1	229 O-RING	90 DURO NITRILE	90229
38	2	230 O-RING	90 DURO NITRILE	90230
39	2	231 O-RING	90 DURO NITRILE	90231
40	1	232 O-RING	90 DURO NITRILE	90232
41	1	233 O-RING	90 DURO NITRILE	90233
42	1	234 O-RING	90 DURO NITRILE	90234
43	1	235 O-RING	90 DURO NITRILE	90235





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## L) PARTS LIST (cont'd)

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RS-XBEA
44	1	332 O-RING	90 DURO NITRILE	90332

REDRESS KIT (RDK)	61346050-1
ASSEMBLED WEIGHT	140 LBS

### L-1) ELASTOMER TRIM OPTIONS

**NOTE<sub>11</sub>:** For temperature range, refer to Elastomer Trim Temperature Guide.

#### L-1.1) HSN

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RSH-XBEA
13	1	ELEMENT	80 DURO HSN	60246512H
14	2	ELEMENT	90 DURO HSN	60246513H
24	1	QUAD SEAL	90 DURO HSN	61346520H
35	8	125 O-RING	90 DURO HSN	90125H
36	1	227 O-RING	90 DURO HSN	90227H
37	1	229 O-RING	90 DURO HSN	90229H
38	2	230 O-RING	90 DURO HSN	90230H
39	2	231 O-RING	90 DURO HSN	90231H
40	1	232 O-RING	90 DURO HSN	90232H
41	1	233 O-RING	90 DURO VITON	90233V
42	1	234 O-RING	90 DURO VITON	90234V
43	1	235 O-RING	90 DURO VITON	90235V
44	1	332 O-RING	90 DURO VITON	90332V

REDRESS KIT (RDK)	61346050H-1
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#### L-1.2) VITON

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RSV-XBEA
13	1	ELEMENT	80 DURO VITON	60246512V
14	2	ELEMENT	90 DURO VITON	60246513V
24	1	QUAD SEAL	90 DURO VITON	61346520V
35	8	125 O-RING	90 DURO VITON	90125V
36	1	227 O-RING	90 DURO VITON	90227V
37	1	229 O-RING	90 DURO VITON	90229V



**HD RETRIEVABLE PACKER  
RIGHT-HAND AUTO**  
4-1/2" X 2-3/8" (11.6 – 15.1#), NC 26 TOOL JOINT

Manual No:  
**DL-613-4500-1711**

Revision: **A**

Revision Date:  
**10/24/2023**

Authored by: *J.Anderson*

Approved by: *E.Visaez*

**L) PARTS LIST (cont'd)**

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RSV-XBEA
38	2	230 O-RING	90 DURO VITON	90230V
39	2	231 O-RING	90 DURO VITON	90231V
40	1	232 O-RING	90 DURO VITON	90232V
41	1	233 O-RING	90 DURO VITON	90233V
42	1	234 O-RING	90 DURO VITON	90234V
43	1	235 O-RING	90 DURO VITON	90235V
44	1	332 O-RING	90 DURO VITON	90332V

REDRESS KIT (RDK)		61346050V-1
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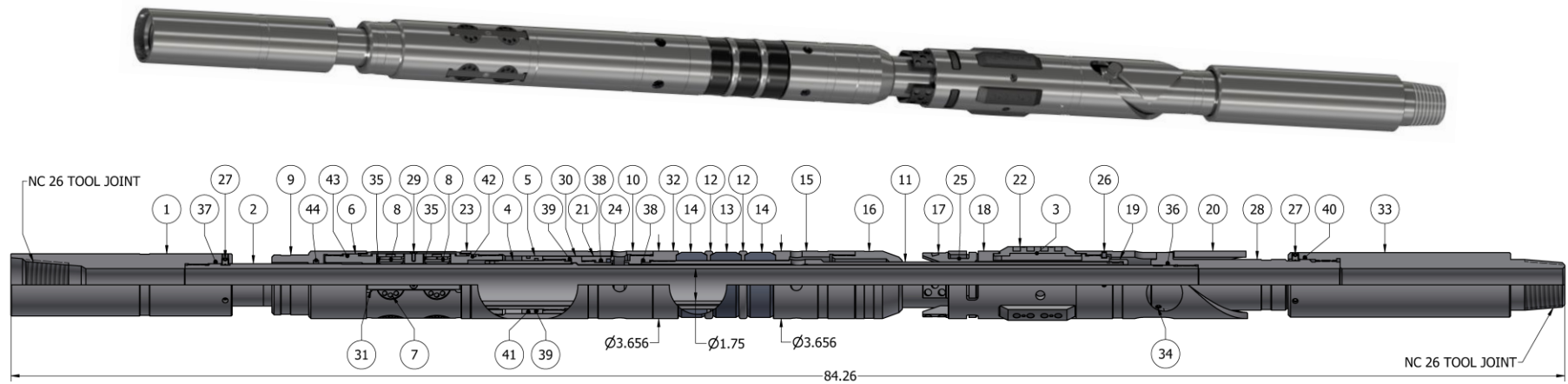
**L-1.3) F-TYPE VITON**

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 61346RSFV-XBEA
13	1	ELEMENT	80 DURO F-TYPE VITON	60246512FV
14	2	ELEMENT	90 DURO F-TYPE VITON	60246513FV
24	1	QUAD SEAL	90 DURO F-TYPE VITON	61346520FV
35	8	125 O-RING	90 DURO VITON	90125V
36	1	227 O-RING	90 DURO VITON	90227V
37	1	229 O-RING	90 DURO VITON	90229V
38	2	230 O-RING	90 DURO VITON	90230V
39	2	231 O-RING	90 DURO VITON	90231V
40	1	232 O-RING	90 DURO VITON	90232V
41	1	233 O-RING	90 DURO VITON	90233V
42	1	234 O-RING	90 DURO VITON	90234V
43	1	235 O-RING	90 DURO VITON	90235V
44	1	332 O-RING	90 DURO VITON	90332V

REDRESS KIT (RDK)		61346050FV-1
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	<b>HD RETRIEVABLE PACKER RIGHT-HAND AUTO</b> 4-1/2" X 2-3/8" (11.6 – 15.1#), NC 26 TOOL JOINT	Manual No: <b>DL-613-4500-1711</b>
		Revision: <b>A</b>
		Revision Date: <b>10/24/2023</b>
<i>Authored by: J.Anderson</i>		<i>Approved by: E.Visaez</i>

### M) TECHNICAL ILLUSTRATION



### N) REVISION HISTORY

DATE	REVISION	DESCRIPTION OF CHANGES	REVISED BY	APPROVED BY
10/24/2023	A	Created manual	-	-