



MECHANICAL COLLAR LOCATOR

3-1/2" X 1.900" EUE (7.7-10.2#)

Manual No:
DL-205-3500-1658

Revision: **A**

Revision Date:
03/07/2023

Authored by: *J.Anderson*

Approved by: *E.Visaez*

A) DESCRIPTION

The Mechanical Collar Locator is designed to provide a positive indication when pulled through each casing collar. An accurate tubing depth can be calculated by combining the number of collars the locator has traveled through and the casing tally.

B) SPECIFICATION GUIDE

CASING			TOOL		THREAD CONNECTION BOX UP / PIN DOWN	PART NUMBER
SIZE (INCHES)	WEIGHT (LBS/FT)	RECOMMENDED HOLE SIZE (INCHES)	GAGE OD (INCHES)	ID (INCHES)		
3-1/2	7.7 – 10.2	2.922 - 3.068	2.871	1.61	1.900" EUE	20535-XBAA

C) 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 / 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 (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.

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



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D) 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.

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.

E) RECOMMENDED TOOLS

E-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
- STRAP WRENCH
- 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

E-2) OPTIONAL SPECIAL TOOLS

ITEM	QTY	DESCRIPTION	PART NUMBER
T1	1	DRAG BLOCK ASSEMBLY TOOL	AT045110

F) DISASSEMBLY

F-1) Clamp lower end of sub (1) in vise.

F-1.1) Compress collar locator blocks (3) with drag block assembly tool (T1).

F-1.2) Unscrew and remove set screws (5) from retainer (2).

F-1.3) Unscrew and remove retainer (2) from sub (1).

F-1.4) Remove drag block assembly tool (T1) and remove collar locator blocks (3) and springs (4) from sub (1).

F-2) Unclamp sub (1) and remove from vise.

G) ASSEMBLY

NOTE₁: Clean and inspect all parts. Replace all worn and damaged parts. Install parts in proper order and orientation.

G-1) Clamp lower end of sub (1) in vise.

G-1.1) Install collar locator blocks (3) and drag block springs (4) into sub (1). Compress blocks with drag block assembly tool (T1).

NOTE₂: Install five (5 ea) springs per block.

G-1.2) Screw retainer (2) onto sub (1) capturing upper end of locator blocks (3).

G-1.3) Screw set screws (5) into retainer (2). Remove drag block assembly tool (T1).

G-2) Unclamp sub (1) and remove assembled tool from vise.



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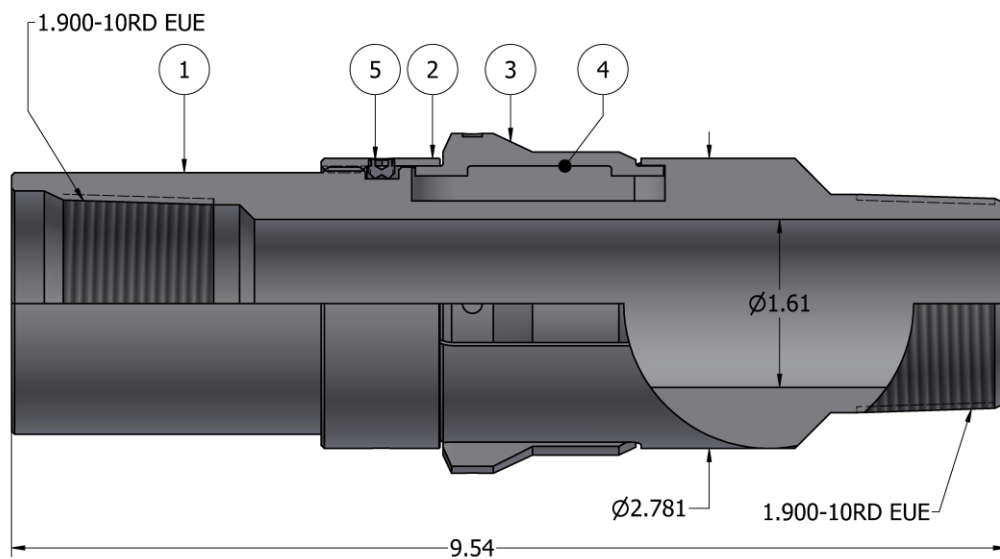
H) PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	PART NUMBER
1	1	DRAG BLOCK SUB	DLMS80	20235335-XBAA
2	1	DRAG BLOCK RETAINER	DLMS60	20235910
3	4	COLLAR LOCATOR BLOCK	DLMS35	20528900
4	20*	DRAG BLOCK SPRING	-	9102900
5	2	1/4-28 UNF X 3/16 SOCKET SET SCREW	STEEL	SSS025F018

*Install five (5 ea) springs per locator block.

ASSEMBLED WEIGHT	7 LBS
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I) TECHNICAL ILLUSTRATION





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J) REVISION HISTORY

DATE	REVISION	DESCRIPTION OF CHANGES	REVISED BY	APPROVED BY
03/07/2023	A	Created manual	-	-