DCD

The EAGLE LASHER

operating manual

Contents

EAGLE LASHER
Part # 61700-000
Pull-Type Lasher

Specifications:

Lasher Weight: 21 lbs.

Shipping Weight: 43 lbs. (Including Carry Case)

Lasher Dimensions: 18” long x 8” wide x 9” high

Capacity:

- Single cable – 2” OD maximum
- Multiple Cables – not to exceed 21/4” OD as a bundle

Capabilities:
The Eagle Lasher will single or double lash without strand traction. It is compatible with standard size coils of .045” and .038” lashing wire, metallic or non-metallic. Double lashing provides a support every 6”, while single lashing provides a support ever 12”. It is also equipped with a clutch handle to allow easy mounting and passing the unit around a pole without cutting the lashing wire or removing it from the drive wheels.

General Information:

The DCD Eagle Lasher is a small, lightweight lasher that was designed to lash 1 or 2 fiber optic cables or small cables up to 2” diameter. It weighs just 21 pounds (plus wire) and does not need traction from the supporting strand to drive the lasher making it very beneficial to use when overlashing existing cables.

This lasher is a piece of precision equipment. Treat is as such. Keep the lasher, operating manual and accessories in the protective storage case after use. This measure will prolong the useful life of your lasher.

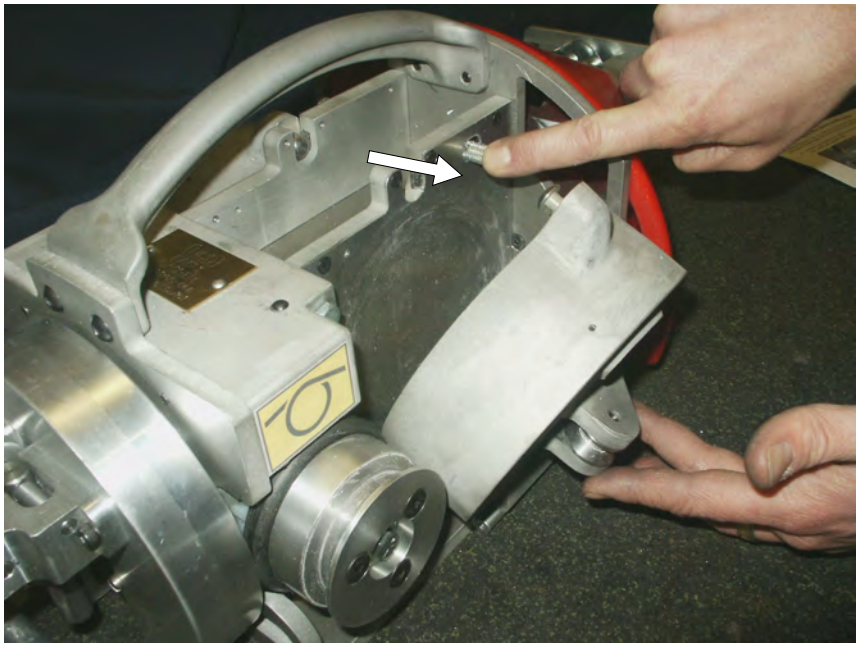
Safety:

- The Lineman Lasher is intended for use only as described in this manual. Do not modify or dismantle the lasher. It has been assembled and inspected and is only covered by a warranty in its “as shipped” form. Any attempt to dismantle or modify the lasher will void the warranty and may result in property damage, severe bodily harm, or death.
- Keep hair, loose clothing, and all parts of body away from openings and moving components. Wear gloves and other appropriate safety equipment to avoid pinch hazards.
- Never use a worn, defective or incomplete equipment. Ensure that all components of the setup are able to withstand the maximum pulling loads. Components not rated for the pull force may break and release the stored energy during operation.
- Do not operate in live environment. The lasher is composed of metal components, and tow ropes connected to the unit can conduct electricity. The weight of the lasher can cause cables to sag and could increase proximity to live wires. Plan work accordingly.
- Do not operate when judgement is impaired (medication, alcohol or otherwise). Improper use can result in property damage, injury or death.
- Be aware of and follow all safety rules applicable to overhead cable installation, including, but not limited to, the Occupational Safety and Health Act of 1970, Subpart V - Power Transmission and Distribution.

1. Loading the Wire Spools on the Lasher

To prepare the Eagle Lasher for lashing, the first step is to load the lashing wire. Whether using .045” or .038” lashing wire, follow these steps.

1a) Release latch located under the handle and on top front of magazine door. Swing open magazine door.



1b) Remove two coil ties from the wire coil and pull out approximately 12” of wire from inside of coil. Take loose end of wire and insert through wire guide in center of the wire magazine door pulling out at least a 12” length.

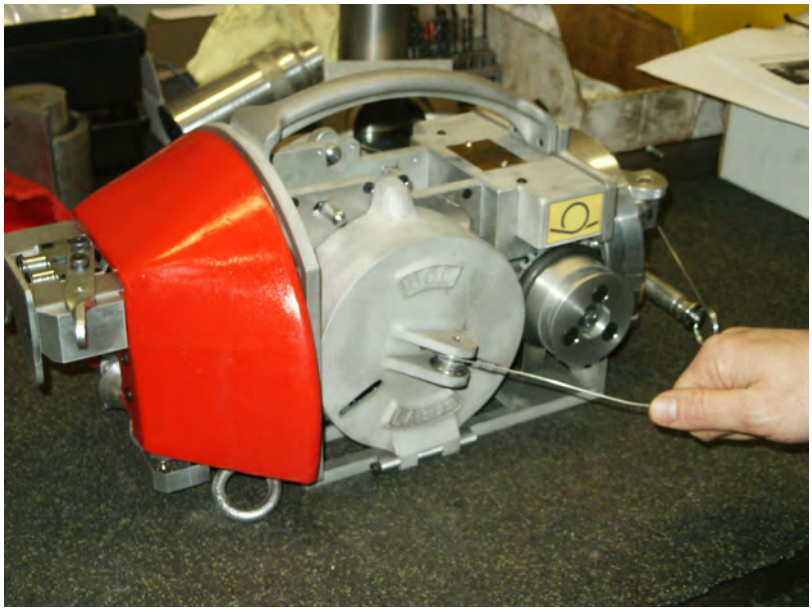
1c) Place coil in magazine. Remove the last two wire ties and close magazine door. Load the second wire magazine in same manner.

1d) It is optional to take the Outside coil of wire and, pulling out approx 12”, feed it through the small hole in the outside of the magazine. This can later be attached to the body of the Lasher once the magazine is closed. This will prevent any possibility of the Wire coil spinning inside the magazine.

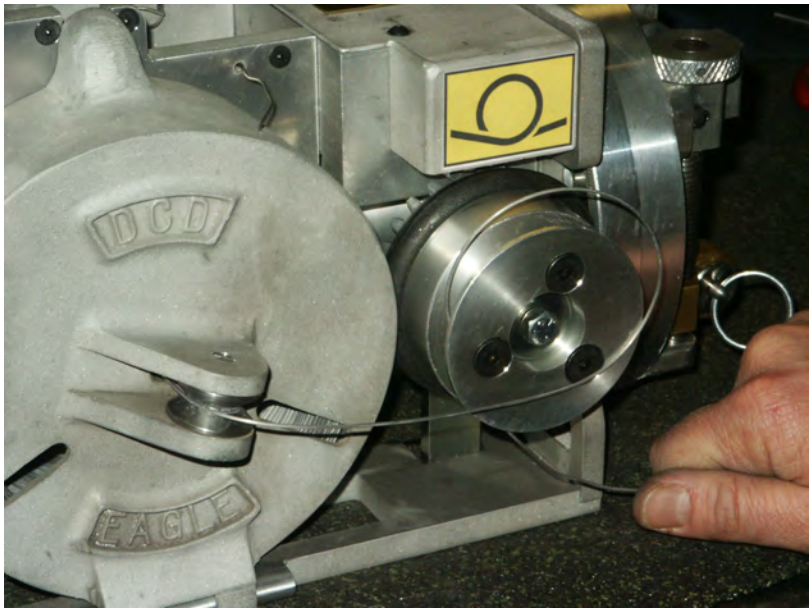
2. Threading the Lashing Wire

You have loaded the lashing wire, now you are ready to thread the lashing wire. Note that when facing the direction the Lasher will travel, the LHS is on your left and the RHS is on your right. Just follow these steps: For the LHS:

2a) Take the free end of the lashing wire from center of wire magazine door and pull out approximately 2 feet of wire.

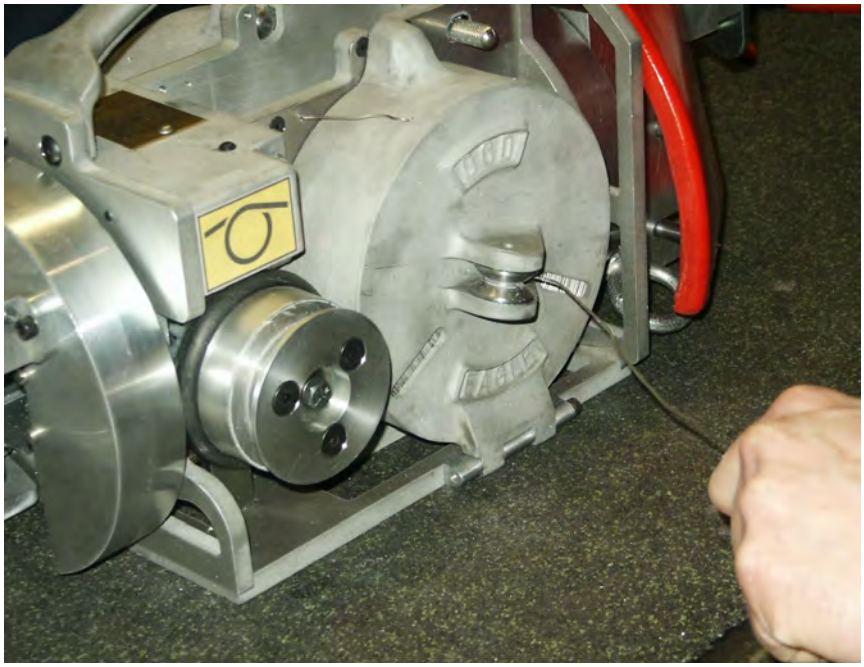


2b) Pass the wire over the guide roller on the magazine cover and then form a loop with wire such that the entry onto the drive wheel is at the BOTTOM and toward the outside of the drive wheel and the exit from drive wheel also at the BOTTOM but toward the inside.
Follow the label above the Drive wheel.

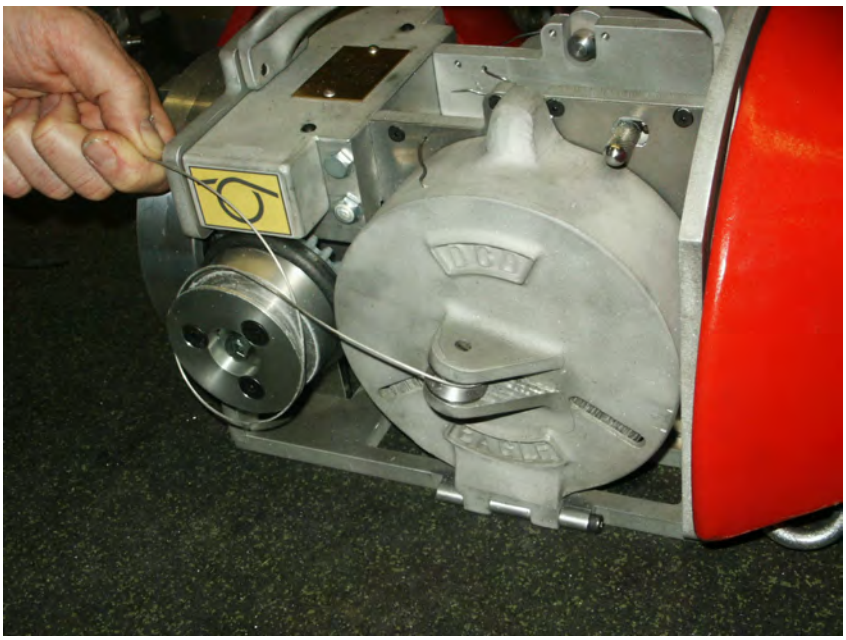


RHS:-

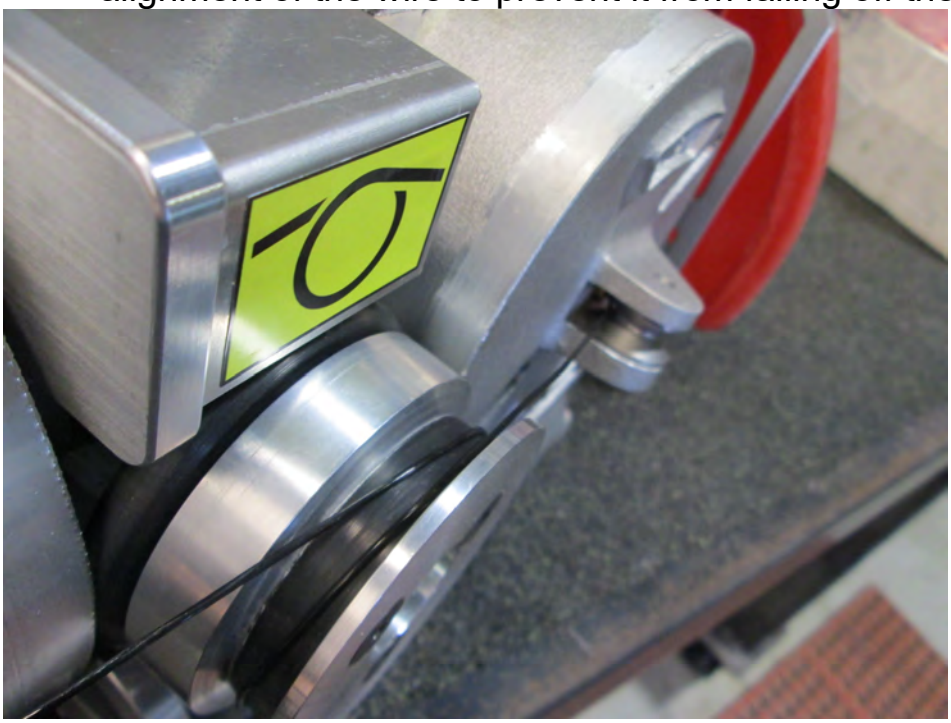
2c) Take the free end of the lashing wire from center of wire magazine door and pull out approximately 2 feet of wire



2d) Pass the wire over the guide roller on the magazine cover and then form a loop with the wire such that the entry onto the drive wheel is at the TOP and toward the outside of the drive wheel and the exit from drive wheel also at the TOP but toward the inside.
Follow the label above the Drive wheel.

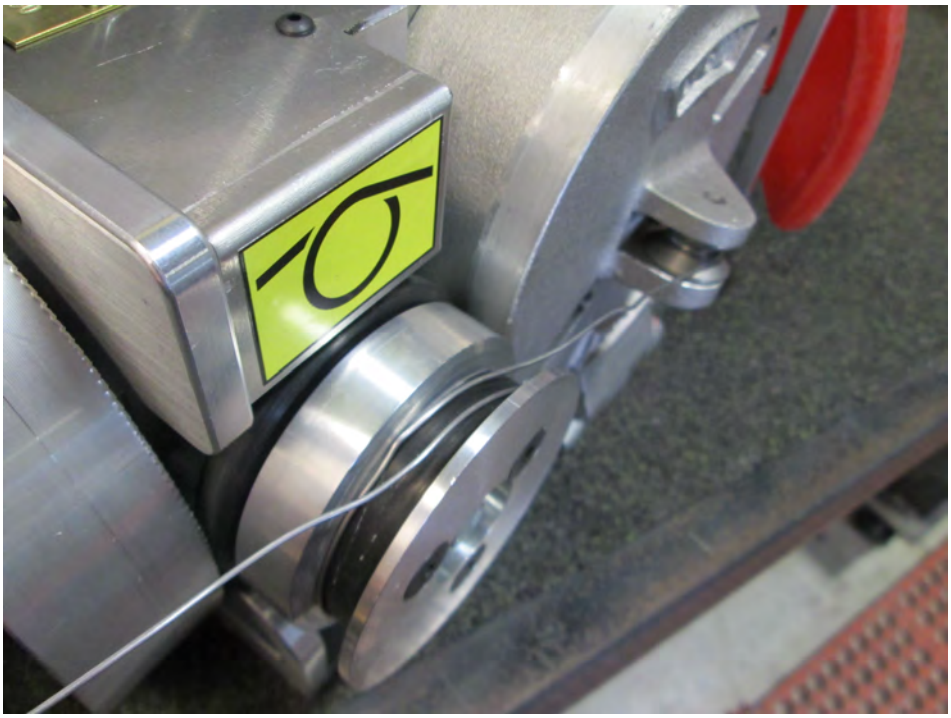


2e) When using non-metallic wire, it is recommended that the wire is threaded under the guide wheel on the lashing wire door as shown. This will ensure alignment of the wire to prevent it from falling off the drive wheel.



2e) Alternate threading method:

When using metallic wire, additional friction may be encountered, resulting in a higher pull force. If your model has rubber tires, the lashing wire can be threaded in reverse orientation to reduce pull force, as shown:

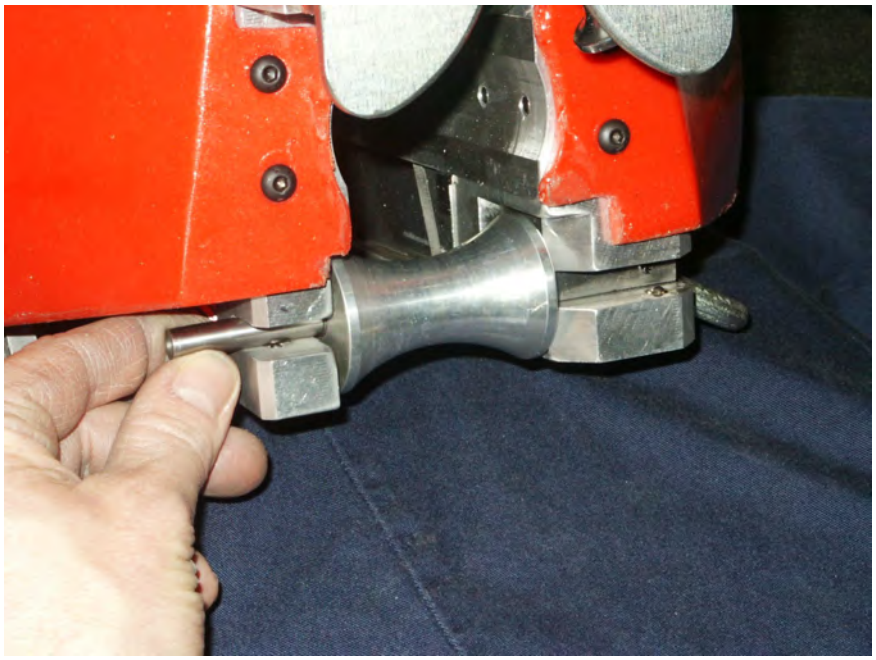


Note that the rubber tires may also be removed to reduce friction and pulling force, depending on your specific operating conditions.

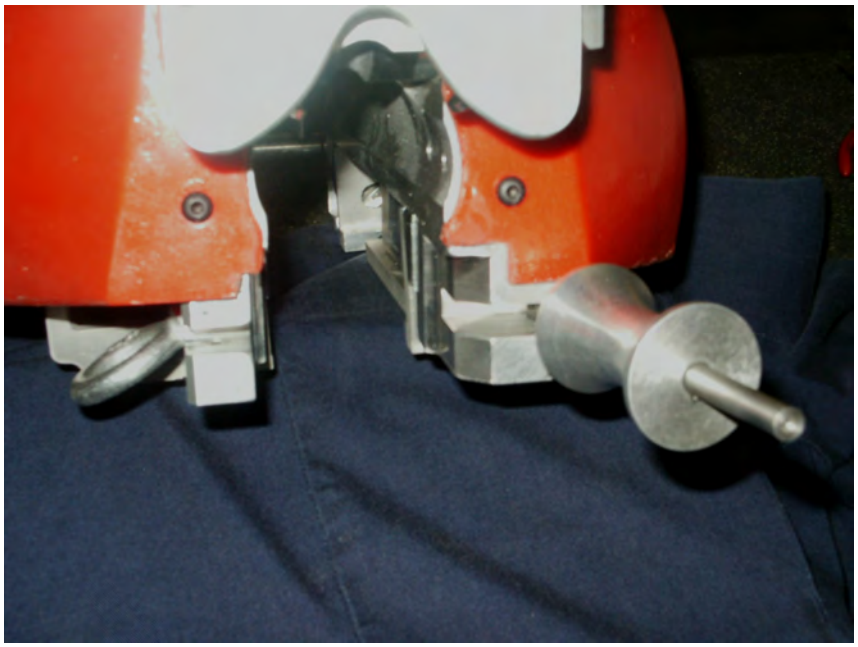
3. Setting the Front Gate:

To open the front gate, follow these steps:-

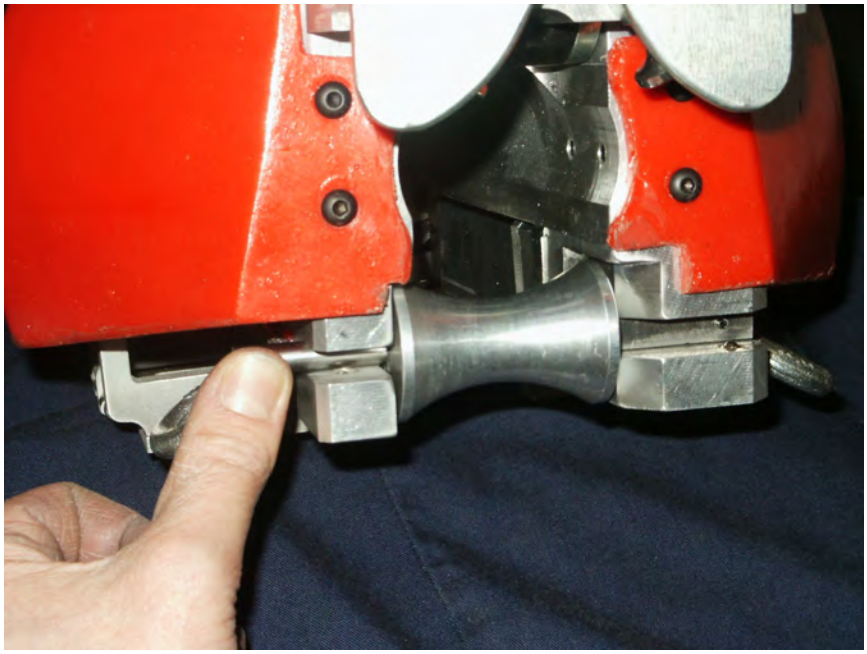
3a) Pull front cable roller until lock releases.



3b) Once the lock is released, swing roller completely open to clear the cable. This will engage the drum lock and keep the drum from rotating.



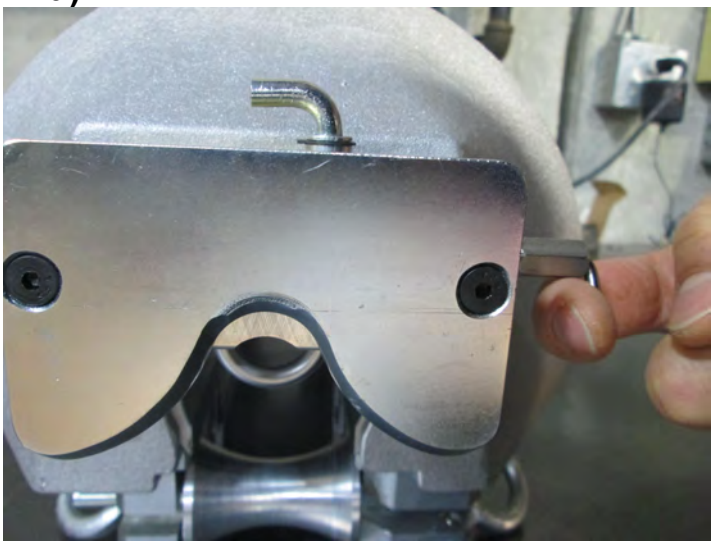
3c) To release drum lock, push front cable roller back to the closed position.



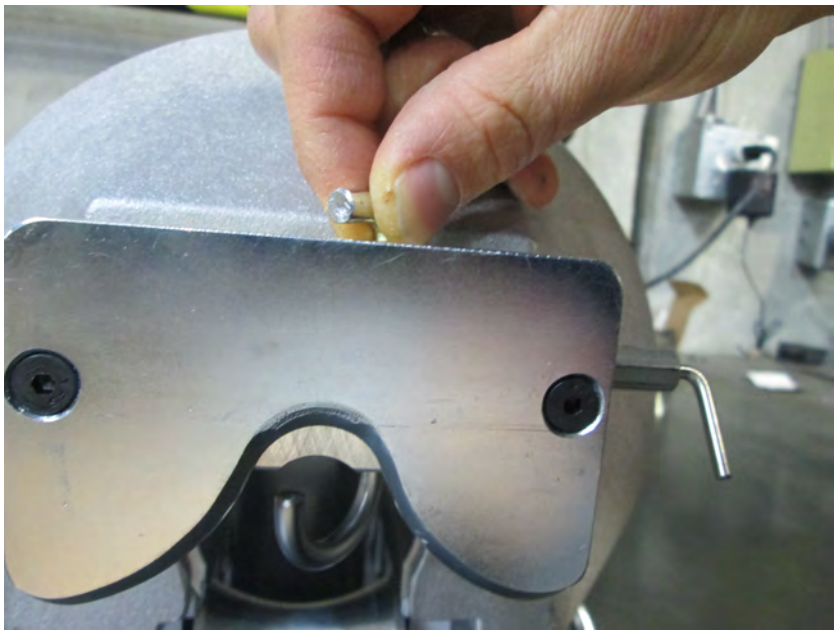
4. To open the Strand Lock:

To open the Strand Lock, follow these steps:-

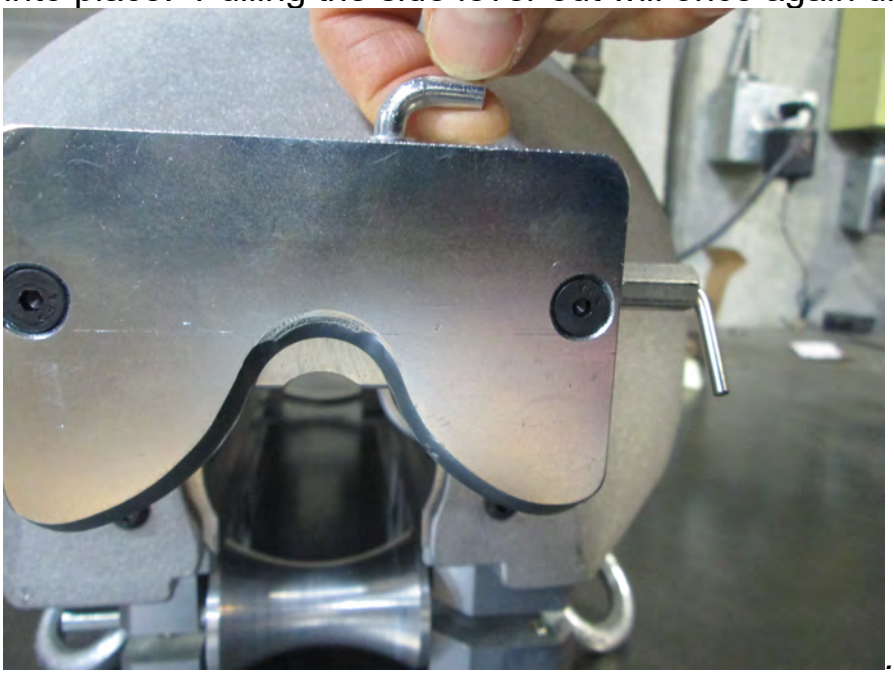
4a) Pull the lever on the side of the strand lock.



4b) Rotate the top lever back (approx. 270°) and pull up into slot to swing the strand lock out of the way. Note that the bend on the top lever matches the alignment of the strand lock, so the position of the strand lock can be known without having to look inside the machine.
Note that *when overlashing, leave strand lock open*.



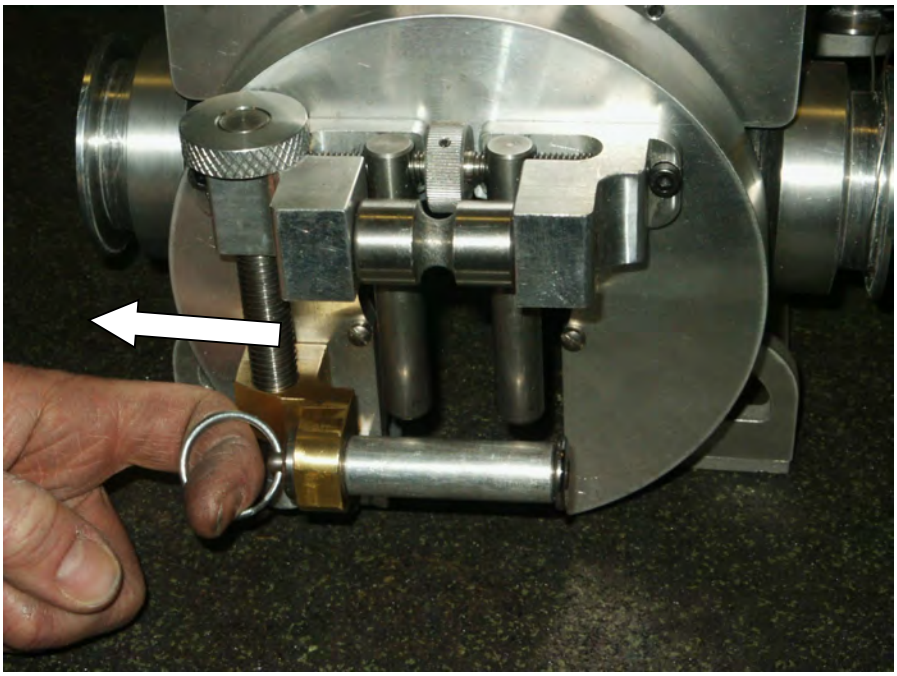
4c) When the lever is in the open position, pull it upwards to lock into place. The lever on the side of the strand lock should pop back in to lock the strand lock into place. Pulling the side lever out will once again unlock the strand lock.



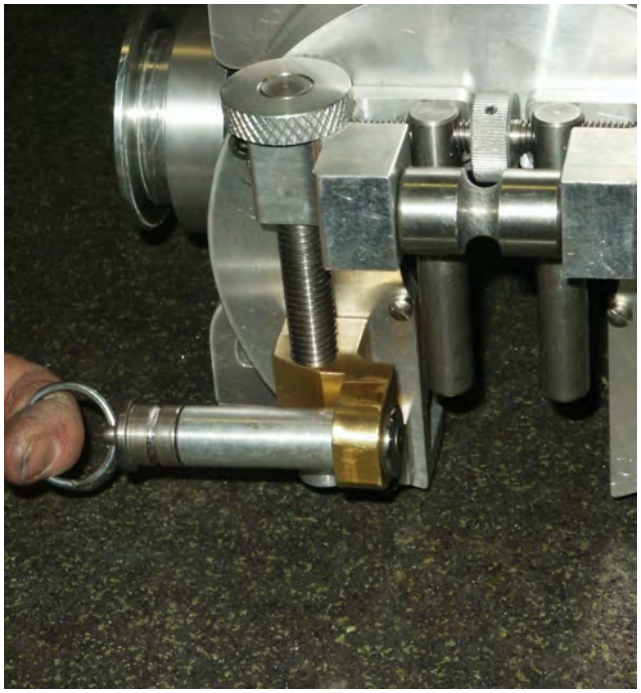
5. Setting the Rear Gate:

To open rear gate, follow these steps:-

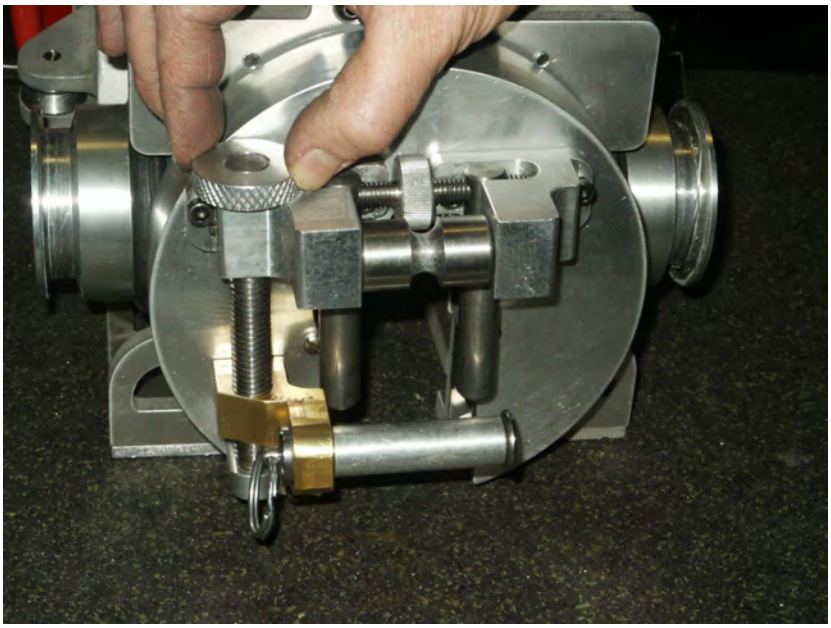
5a) To open rear gate simply pull the ring and slide the rear gate roller outwards. It will fully retract to allow placement and removal of the lasher over the cables.



5b) To close rear gate, simply push gate roller back in and it will click into the closed position.

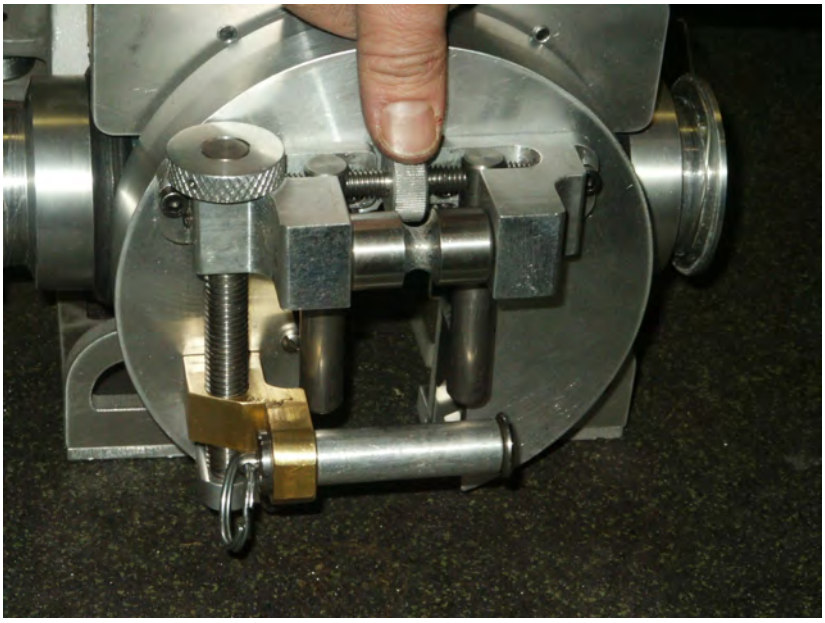


5c) To adjust the height of the rear gate roller up or down, scroll the knurled roller and the gate will wind up or down. During operation this gate should be set to within 1/8” of the cable.



To adjust rear vertical rollers, follow these steps:-

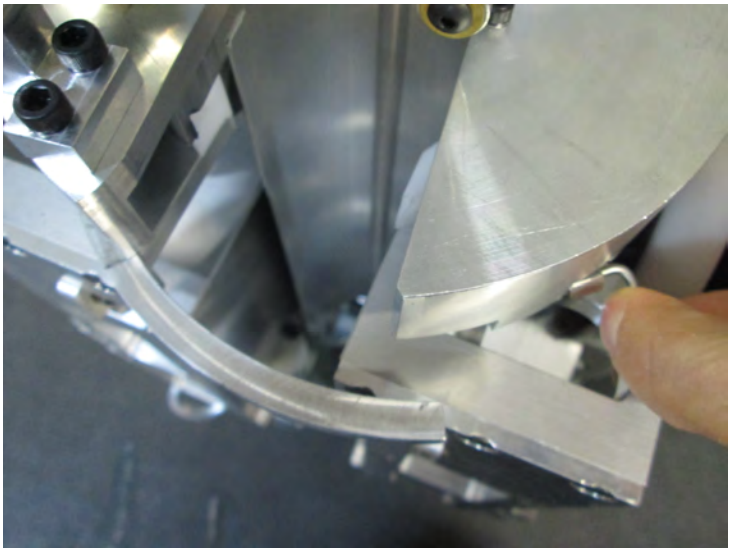
5d) Adjust rear vertical rollers by turning the knurled roller located at top between rear rollers.



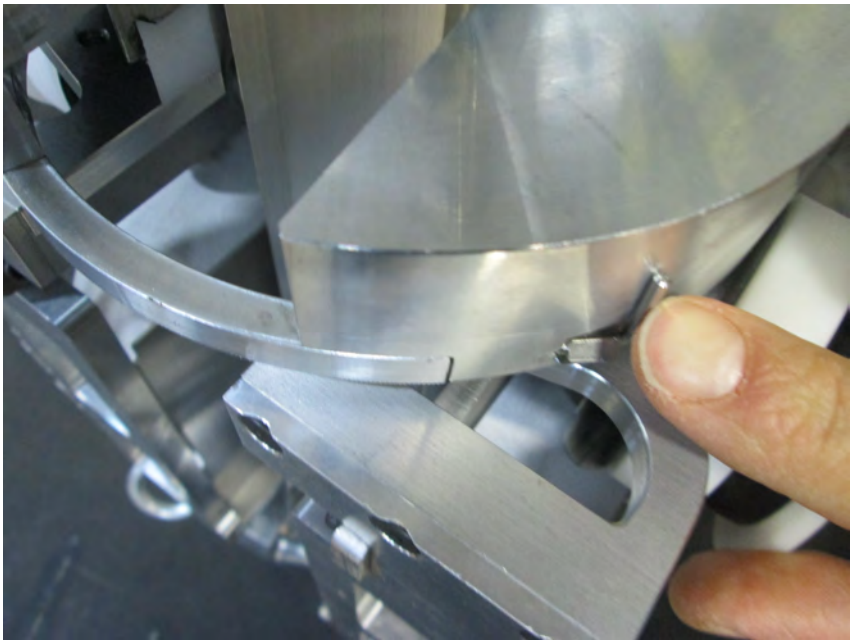
6. Opening the rear cover drive surface:

To open the drive surface on the rear cover, follow these steps:-

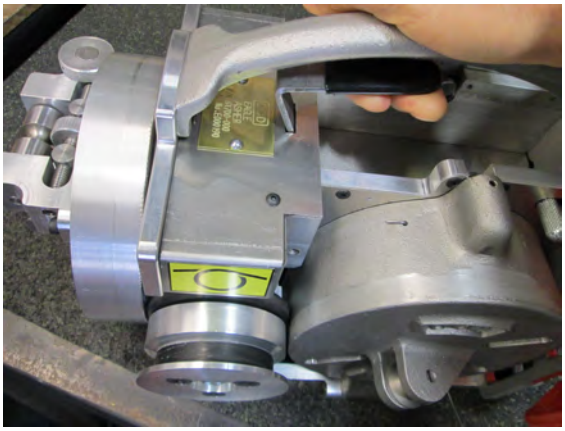
5a) Pull the lever on the right to allow rear cover to swing open. Open it fully by hand to lock it in the open position.

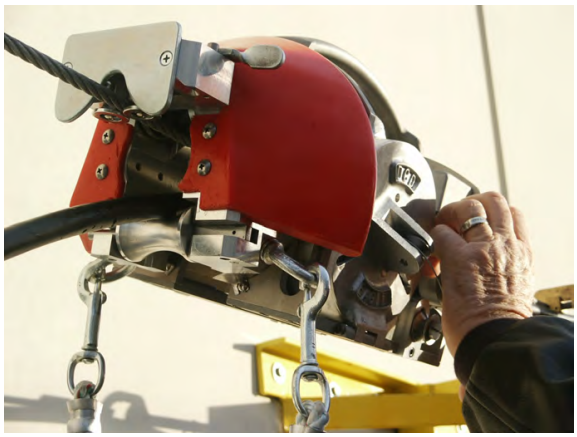


5b) When closing, the rear cover can be pushed and snapped back into the closed position. Pull the lever on the right to allow rear cover to swing open. Open it fully by hand to lock it in the open position. Ensure that the lever is tucked against the side of the lasher to prevent interference during rotation.



You are now ready to proceed to place the Eagle Lasher on the supporting strand. Position the cable in the lasher. Close front and rear gates. Adjust rear rollers to center cable. Raise the clutch handle to allow additional wire to be pulled out of the machine without rotating the machine to tie off lashing wire to strand. Attach towing rope to pulling rings on front of lasher.





Troubleshooting

If lashing wire won't pay out:
This indicates the wire isn't threaded properly. Refer to "Threading the Lashing Wire".

NOTE: If you are unable to achieve positive drive, the lashing wire can be threaded twice around the drive wheel.

NOTE: If using metallic wire and machine is difficult to pull, the wire can be threaded in the opposite direction on the drive wheel. If using non-metallic lashing wire, always thread in the standard indicated fashion.

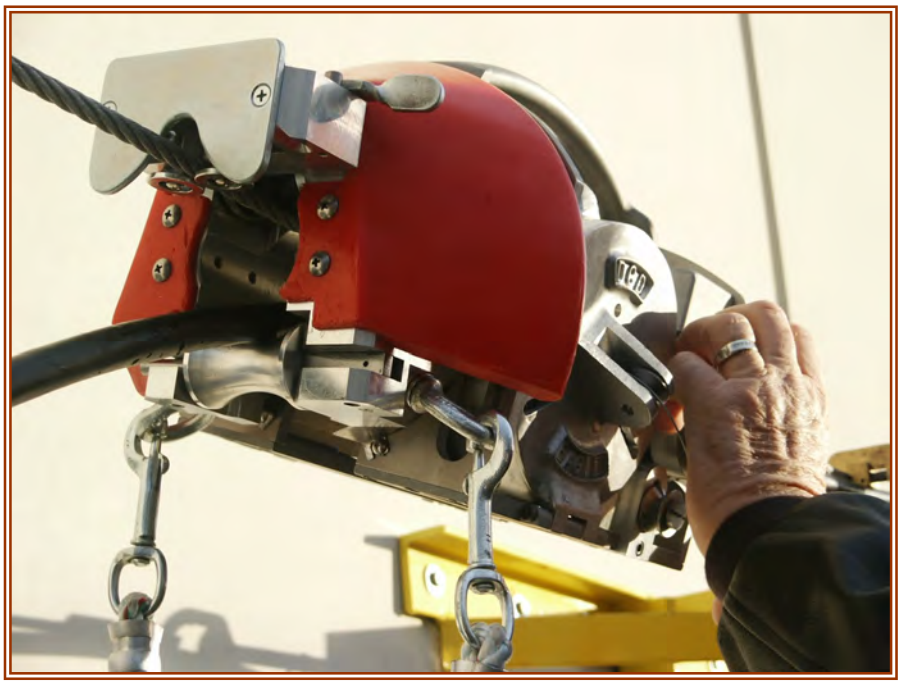
If wire jumps off drive wheel:
This also indicates the lashing wire is improperly threaded. Refer to "Threading the Lashing Wire".

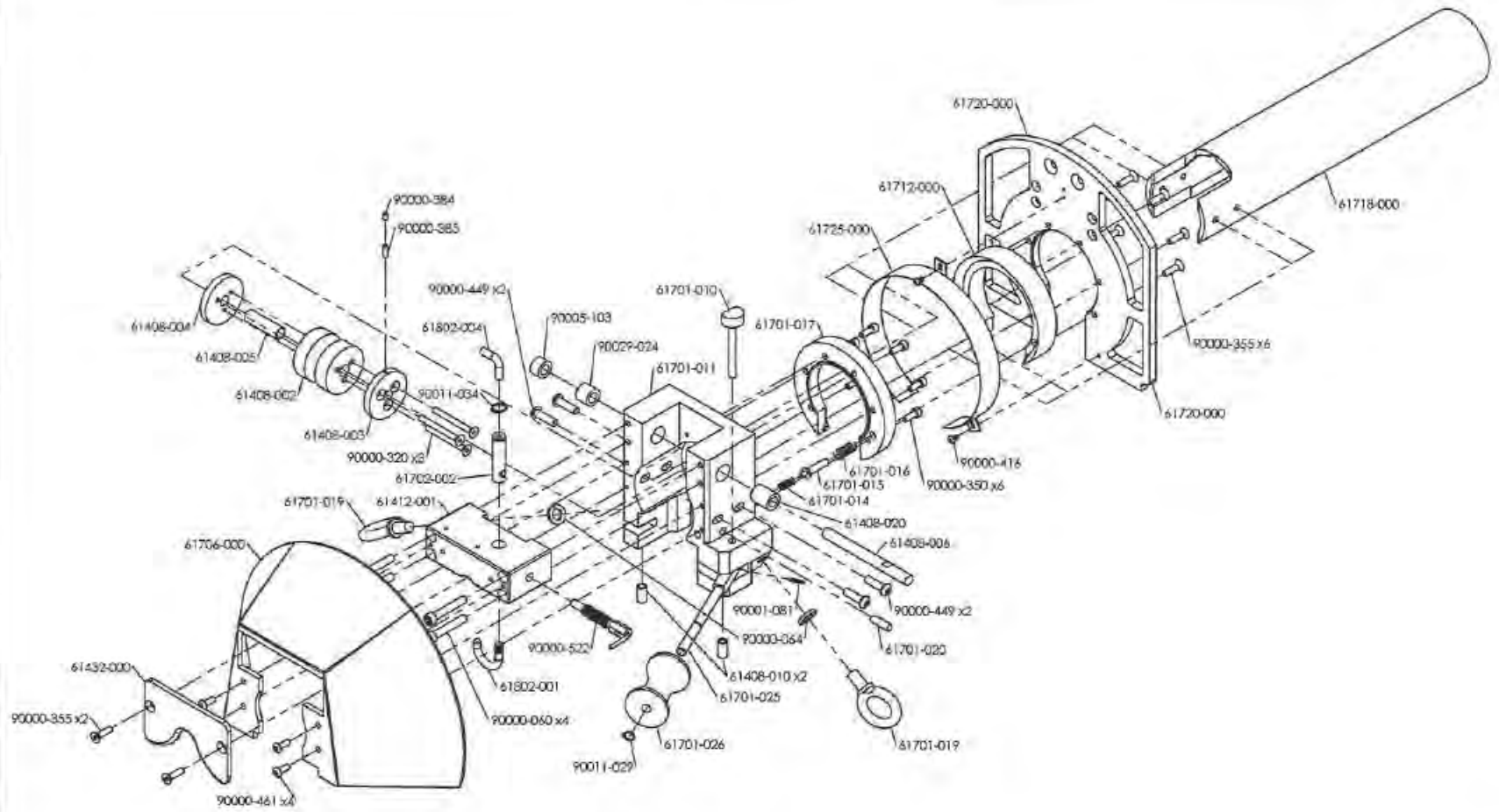
If lasher draws back and loosens lashing wire:
Just pull lasher forward. The wire will tighten.

If you need any parts or repairs:
Contact DCD Design & Manufacturing Inc. at 1-888-794-8357.

NOTES

DCD Design & Manufacturing Ltd.





REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A	REVISED FOR PRODUCTION OF DIRECT DRIVE EAGLE LASHER	DEC 28-06
	B	REVISED WITH 61753-000 GEARBOX/CLUCH ASSEMBLY	FEB 13/13
	C	REMOVED GEARBOX, PLASTIC BUSHINGS WERE BEARINGS, REDESIGNED STRANDLOCK. REDREW THE EXLODED VIEW	MAR 02/18

Form-EDC-009 Rev.02 Date: 09/17/10

MATERIAL DESCRIPTION:
SEE BILL OF MATERIALS

UNLESS OTHERWISE SPECIFIED
- REMOVE ALL BURRS & SHARP CORNERS
-MACHINE SURFACES TO 125 MICROINCHES OR BETTER
- DIMENSIONS IN INCHES
- TOLERANCES (EXCEPT AS NOTED)
FRACTIONS ±1/32"
X.XX ±0.01"
X.XXX ±0.003"
ANGLES ±1/2°

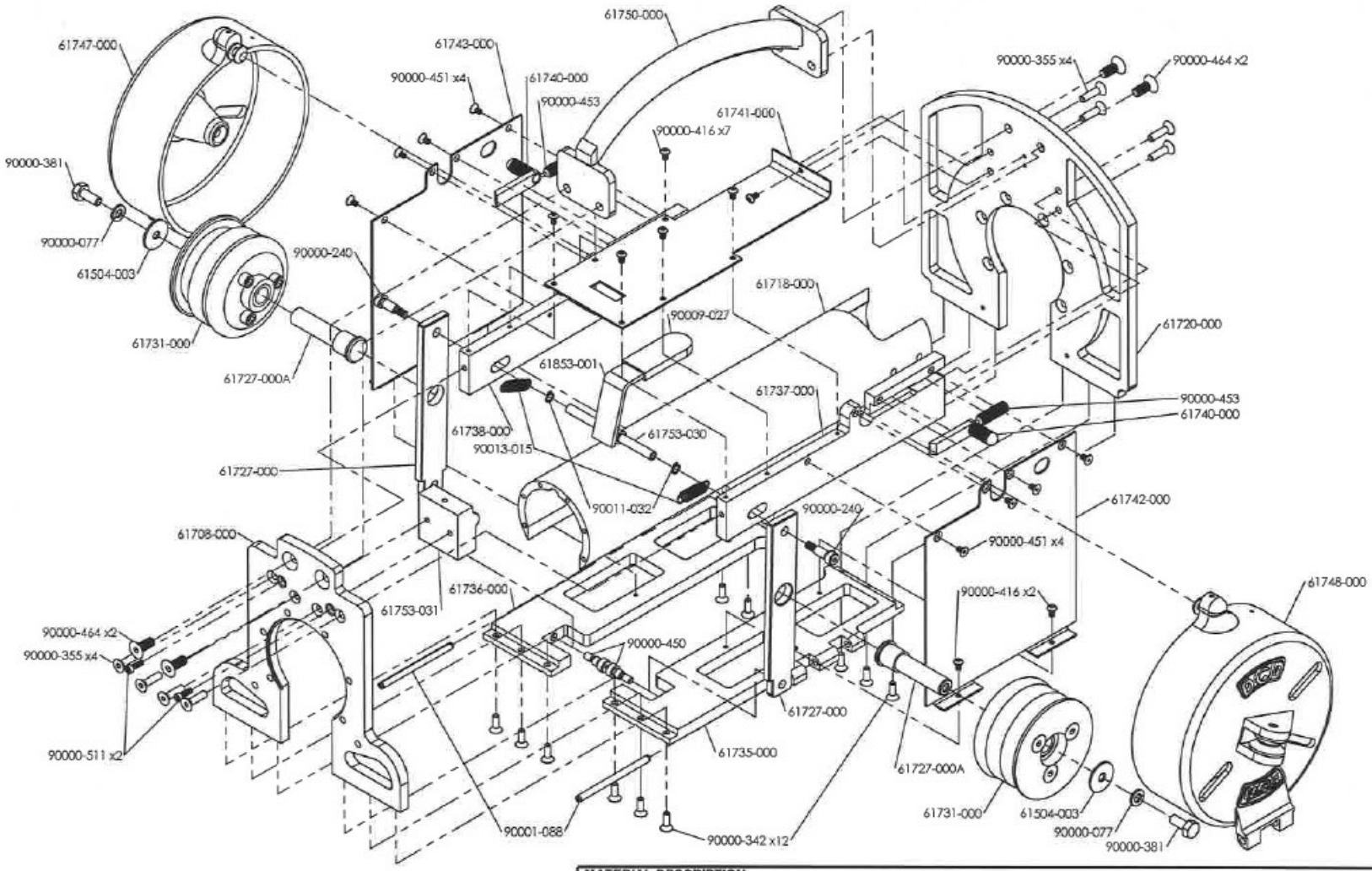
SCALE: DO NOT SCALE
SHEET: 1 OF 3

DCD Design & Manufacturing Ltd.
#180 - 6620 McMILLAN WAY
RICHMOND, BC CANADA V6W 1J7
TEL: (604) 232-4445 FAX: (604) 232-4446

DESCRIPTION
EAGLE LASHER

DRAWN BY	DATE	DRAWING NUMBER	REV
STEPHEN XU	MAR 06, 2018	61700-000	C

APPROVED BY: DATE: APR 11 2018



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SEE BILL OF MATERIALS

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- DIMENSIONS IN INCHES
- TOLERANCES (EXCEPT AS NOTED)
FRACTIONS ±1/32"
X.XX ±0.01"
X.XXX ±0.003"
ANGLES ±1/2°

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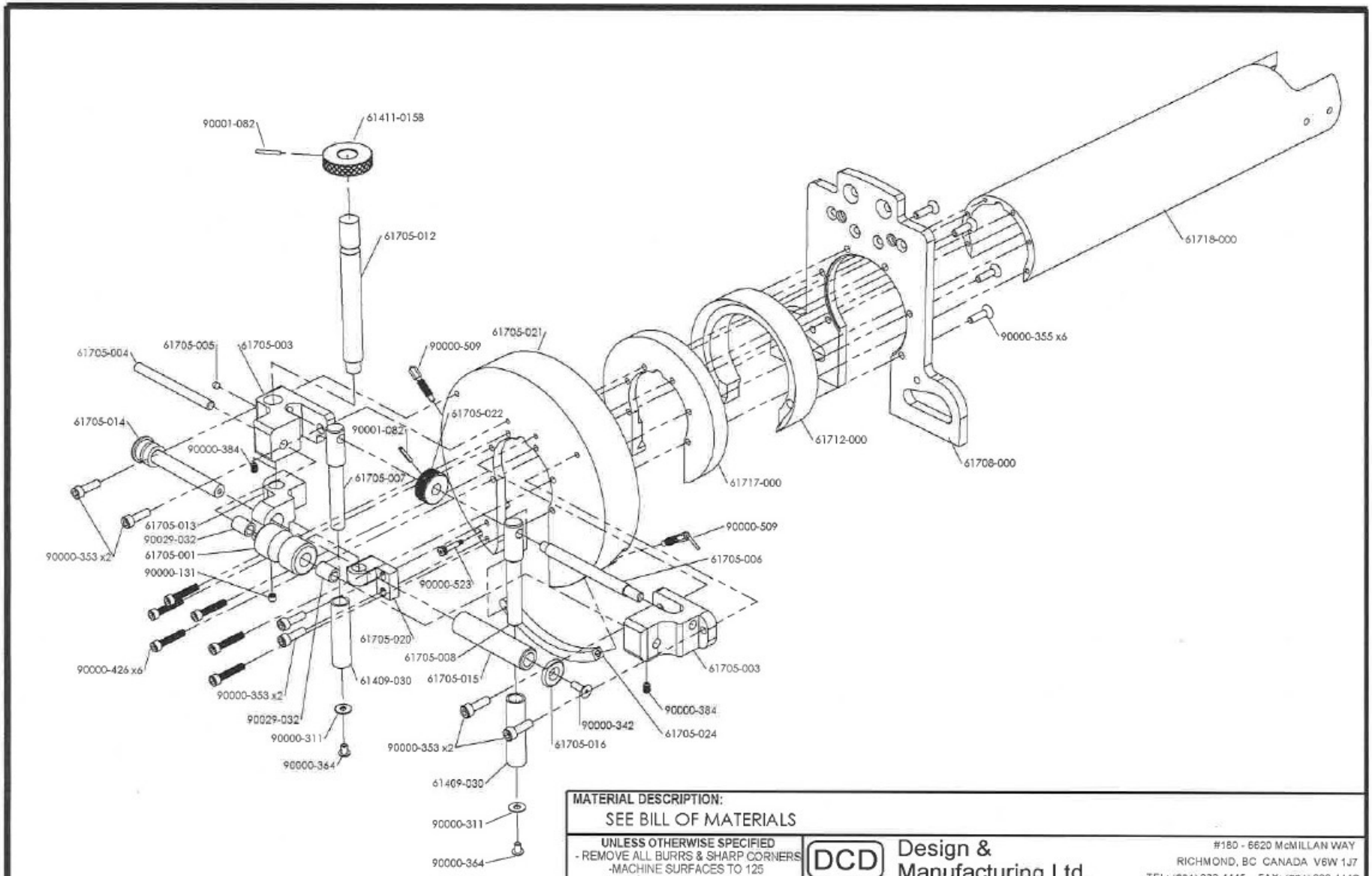
STEPHEN XU	MAR 06, 2018	61700-000	C

SCALE	SHEET	APPROVED BY	DATE
DO NOT SCALE	2 OF 3		APR 11 2018



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FRACTIONS ±1/32"
X.XX ±0.01"
X.XXX ±0.003"
ANGLES ±1/2°

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STEPHEN XU	MAR 06, 2018	61700-000	C

SCALE	SHEET	APPROVED BY	DATE
DO NOT SCALE	3 OF 3		APR 11 2018