



topcoilsite.com

HEAVY LIFT 25 TON ROD ELEVATOR Operators Manual



553-575-100
1-1/8 inch Sucker Rod

553-575-200
Plate Type 1 to 1-1/4 inch Sucker Rod

553-575-300
1-1/4 inch Polish Rod

553-575-500
Plate Type 5/8 to 1 inch Sucker Rod

553-575-800
1-1/2 inch Polish Rod

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Thank-you for choosing Trico. We at Topco Oilsite Products design and build Trico equipment with you, the customer in mind.

To help ensure trouble-free operation of your equipment, read this manual carefully and follow its recommendations.

An authorized Topco facility knows your equipment best. When maintenance or service is necessary, that's the place to go.



General Cautions and Warnings

Maximum working load indicates the greatest force or load a product can carry under usual environmental conditions. Shock loading and extraordinary conditions will reduce the maximum working load rating. The maximum working load rating may also be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, and other use conditions.

Regular inspection shall be conducted to determine whether use can be continued at the maximum working load rating, a reduced maximum working load rating, or whether the product shall be withdrawn from service.

Important Notes About This Manual

All specifications and descriptions are accurate at the time of printing. Because continuous improvement is a goal at Topco, we reserve the right to make changes in specifications at any time without notice and without obligation.

Please be aware that this manual applies to all models, equipment, and options. As a result, you may find some explanations not applicable to your equipment.

Quality

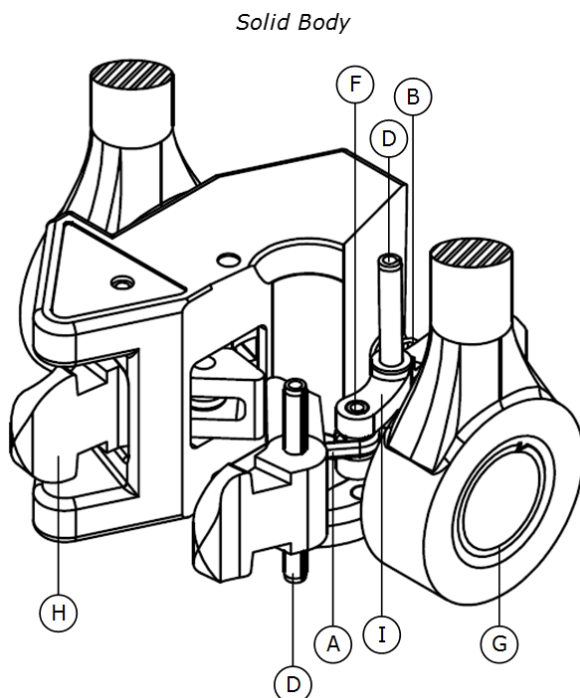
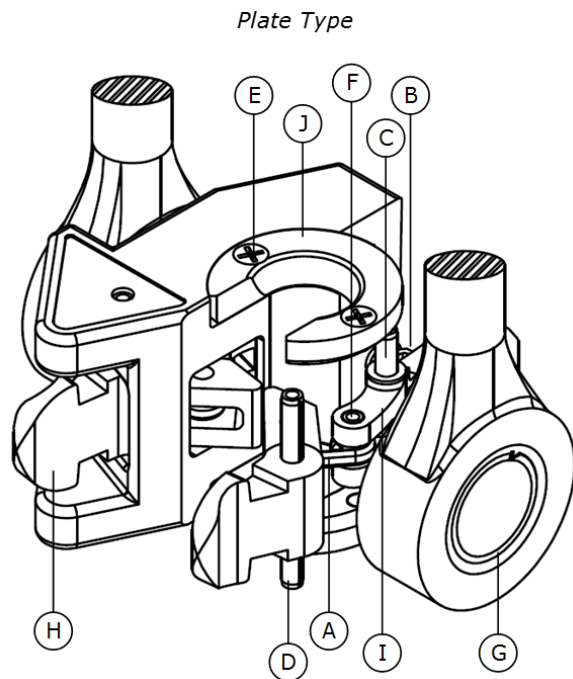
If you have any questions, concerns, or feedback regarding the quality of our products and services please contact us.

Safety

Ensure equipment is operated in accordance with all government, regulatory and employer requirements.

Markings

-  This symbol in the manual means "Do not let this happen."
-  This symbol means a minimum operating temperature of -20°C (-4°F).
-  This symbol means a minimum operating temperature of -46°C (50°F).
-  This symbol means failure to comply may result in damage or injury.



A. 2x Link



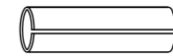
553-548-500

B. 2x Spring



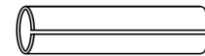
553-549-010

C. 2x Plate Drive Pin



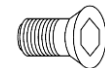
553-548-900

D. 4x Solid Drive Pin
(2x Plate Type)



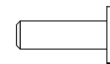
553-766-100

E. 4x Plate Screw



553-554-000A

F. 4x Link Pin



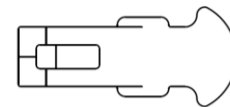
553-551-400

G. 2x Retaining Ring



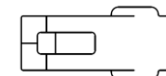
553-551-800

H. 2x Front Latch



553-551-500

2x Front Latch
(Polish & Fibreglass Rod)



553-551-501

I. 2x Rear Lever



553-551-000

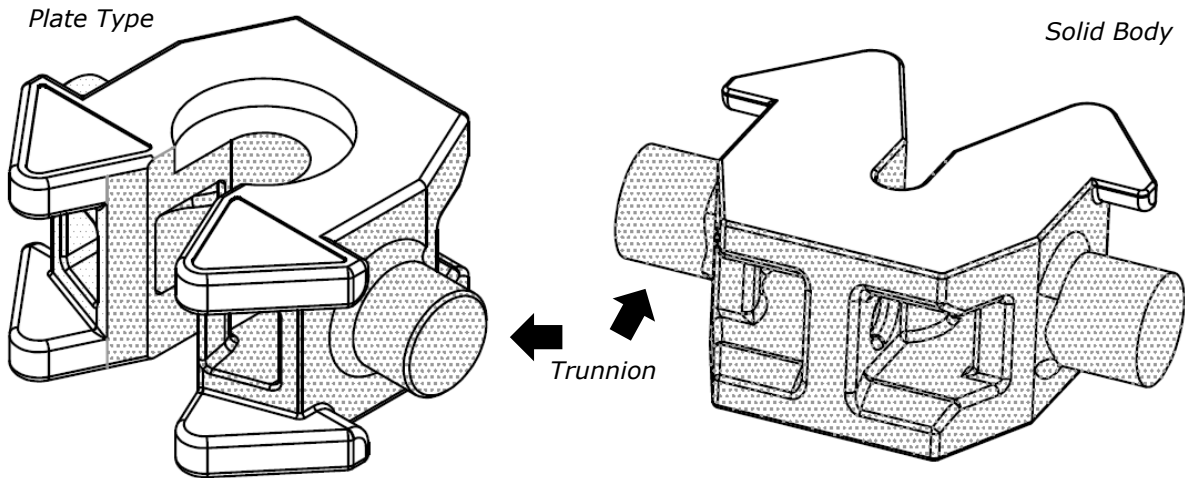
J. 2x Plate



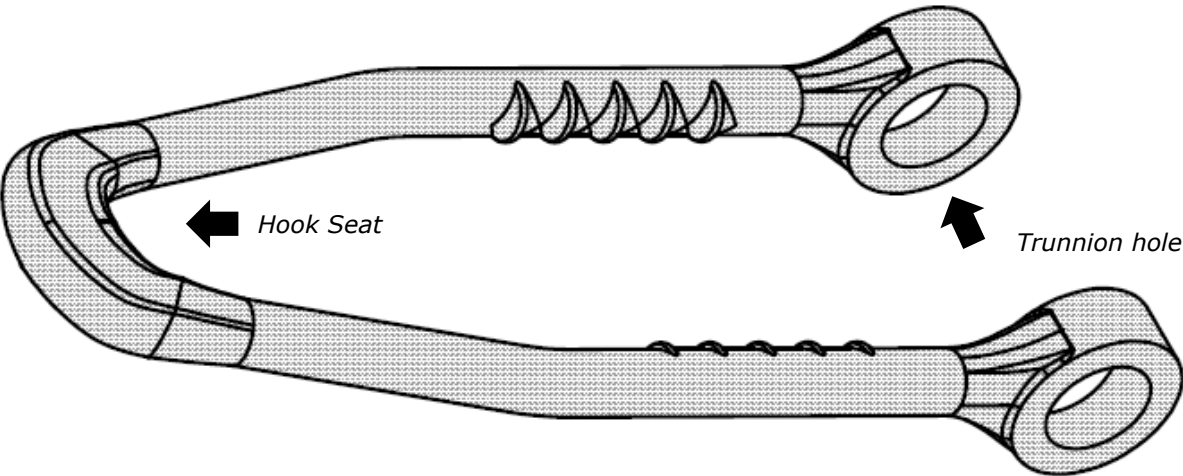
553-550-000 (5/8-3/4)
553-550-200 (3/4-7/8)
553-550-700 (1)
553-550-750 (1-1/8)
553-550-800 (1-1/4)

Wear Limits			Critical Area
Trunnion	Trunnion Hole	Hook Seat	
Minimum Ø 40 mm (1.57 in)	Maximum Ø 44 mm (1.73 in)	Minimum 40 mm (1.57 in)	

Body



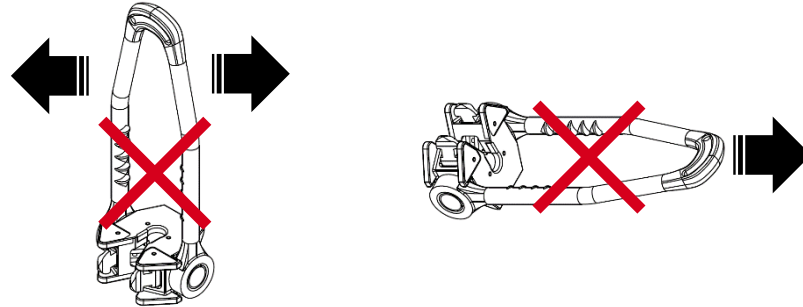
Bail





WARNING: Failure to follow these directions could result in damage or injury.

- ▶ Trico Rod Elevators are designed to elevate fibreglass, polished, pony and sucker rods. Never use them for any other purpose.
- ▶ Only lift rods in a vertical direction using the hook seat.
- ▶ Never use a plate type elevator without a plate and plate screws.
- ▶ Never use an elevator with an incorrect sized rod upset or rod size.
- ▶ Never exceed the maximum working load of the Elevator.
- ▶ Never operate below the minimum operating temperature.



Heavy Lift New Equipment Specifications

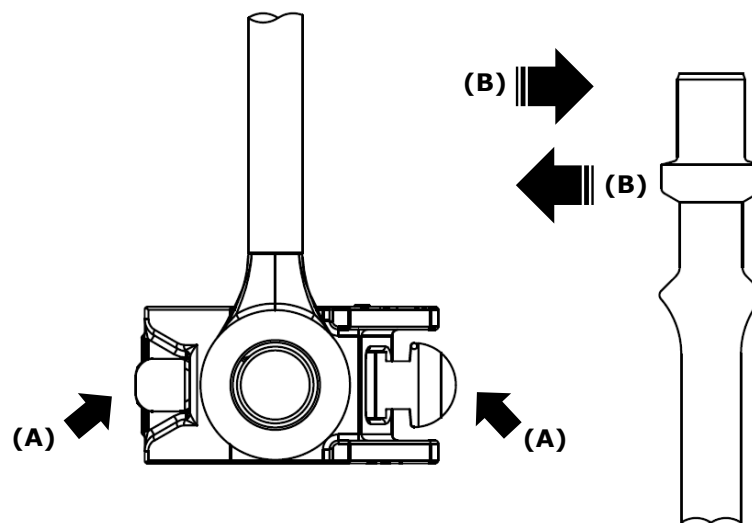
- ▶ Maximum Working Load: 25 short tons (50,000 lbs).
- ▶ Minimum Operating Temperature: -46°C (-50°F).

Before Each Use

- ▶ Ensure the bail freely rotates in both directions, and is tightly secured to the body.
- ▶ Inspect the retaining rings, front latches and plates for damage.

Inserting and Removing Elevators

Engage either the front latch or rear lever **(A)** to insert and remove a rod **(B)**.





WARNING: Failure to follow these directions could result in damage or injury.

- ▶ Never weld, grind, or modify in any way.
- ▶ Only use Trico Original Equipment Manufacturer ("OEM") replacement parts.



Recommended Maintenance Practice

API Recommended Practice 8B and CAODC Recommended Practice 4.0 are approved for the maintenance of Trico Rod Elevators. At a minimum, it is recommended that all Category/Level III and IV maintenance be conducted at an authorized Trico inspection facility.

Recommended Maintenance Schedule

This schedule is a guide only. The equipment owner/operator should consider the following factors when building a maintenance schedule; environment, load cycles and operating time.

Category	Level	Type	Rate		Method	Corrective Action
			API	CAODC		
I		Visual	–	1 day (Daily)	• Observation during operation	Contact Topco to locate an authorized Trico inspection facility.
II		Visual	1 day (Daily)	7 days (Weekly)	• Cracks • Loose connections • Yielding • Wear • Corrosion	
III		Physical	6 months (Bi-annually)	1 year (Annually)	• NDT of critical areas • Wear limits	
IV		Disassembly	1 year (Annually)	6 years	• Inspection at an authorized Trico facility	

Contact Information



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