

# POWR LADDER OWNER'S MANUAL

## ORDER REPLACEMENT PARTS

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810-735-6957 FAX  
Sales@richmondconveyor.com

## SALES OFFICE

Powr Ladder by Richmond Conveyor  
PO Box 312 (mailing)  
110 South Bridge St.  
Linden, MI 48451

## MANUFACTURING

Richmond Conveyor  
7511 Murdoch Rd.  
Bay Port, MI 48720



by



**WARNING !!!** Attempting to assemble, operate or maintain this product. Failure to comply with instructions may result in injury and/ or property damage! Retain operating instructions and parts manual for future reference.  
**Protect yourself and others by observing all safety information!**

## DESCRIPTION

The Powr Ladder is a shingle conveyor designed to lift materials from the ground floor or from a truck bed, up to a roof, or upper-level surface opening. It designed as a simple light weight conveyor that could be easily stored, transported to and from construction sites as well as being used as permanent equipment in warehousing and lumber yards.

## BASIC SPECIFICATIONS

The chassis of the conveyor is a single heavy duty aluminum industrial ladder. There are two chains that run the length of the ladder and may run forward or reverse. Carrier plates are attached to the chain, and material to be lifted is placed on the conveyor frame in front of the carrier plates. Powr Ladders run with a reversible ½ HP electric motor. Powr Ladders are one-piece units, and come in sizes 16, 18 and 20 feet. Power Ladder has a maximum load of 2 bundles of shingles (one per carrier plate.) Do not use for transporting persons or serious injury or death may occur.

## SPECIFICATIONS

Lengths	16'	18'	20'
Weight Lbs	172	177	187
Frame Structure	Heavy Duty Aluminum		
Shingle Delivery System	#55 Regular Chain & Carrier Plate		
Motor with Switch	1/2 hp 115 v 1725 RPM w/ Reversible Switch		
Load- Delivery	Unit will carry a maximum 2 bundles ( 1 bundle per carrier)		

## GENERAL SAFETY AND OPERATING INFORMATION

1. All personnel should be instructed in the operating procedure and safety instructions of the Powr Ladder Conveyor and/or Powr Ladder TMS hoist.
2. Do not use for transporting personnel or serious injury or death may occur.
3. Keep all body parts and clothing away from all moving parts.
4. Operator must make certain all persons are clear of the elevator before starting motor.
5. Use extreme caution when operating conveyor near electrical power lines or any electrical installation (unit will conduct electricity)
6. Do not stand under or near sides when conveyor is in operation.
7. Always position conveyor at a pitch that will prohibit rising material from falling off sides or back onto operator.
8. Materials should always be placed on conveyor as evenly as possible (to prohibit materials from falling off sides, or back onto the operator).
9. When transporting always securely fasten unit to vehicle.
10. If conveyor is not used with the Powr Ladder TMS Hoist, the unit should be placed on a solid non-slippery surface.
11. When transporting conveyor, always allow enough clearance both front and back of vehicle to avoid damage to unit or private property.

## MAINTENANCE:

The Powr Ladder is set up to be a low maintenance piece of equipment. There are only two main areas that need attention: **BEARINGS & CHAIN.**

**BEARINGS:** Although the conveyor is lubricated at the factory before shipment, the bearings do need to be on a lubricating schedule to insure full trouble-free use of the equipment. General purpose grease should be used approximately 3 to 4 times a year.

(This is determined by the amount of usage your conveyor receives.)

**CHAIN/ CHAIN TENSION:** It is important to monitor proper chain tension. This is done by measuring the amount of slack in the chain, when conveyor is resting in a horizontal position.

Proper chain tension is:

1" to 3" for elevators ranging in size from 12 to 18 feet.

3" to 7" for elevators ranging in size from 20 to 24 feet.

(Note: as of January 1, 2021 Powr Ladder are only manufactured in 16' , 18' and 20' models)

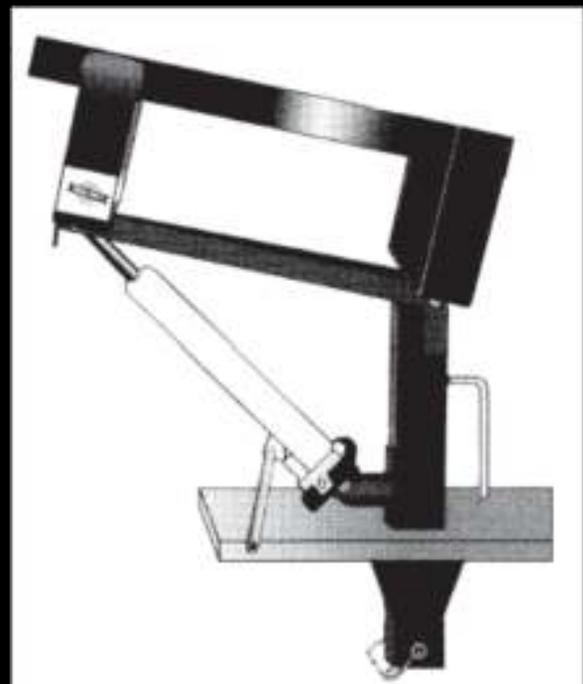
Use adjustment bracket bolts at top of unit ( part#1) to tighten chain. After a period of extensive use, it may be necessary to remove a link from each side of the chain to obtain proper tension.

NOTE- Always remove link from chain in approximately same locations, and be sure to run all exactly parallel when fitting chain back onto conveyor.

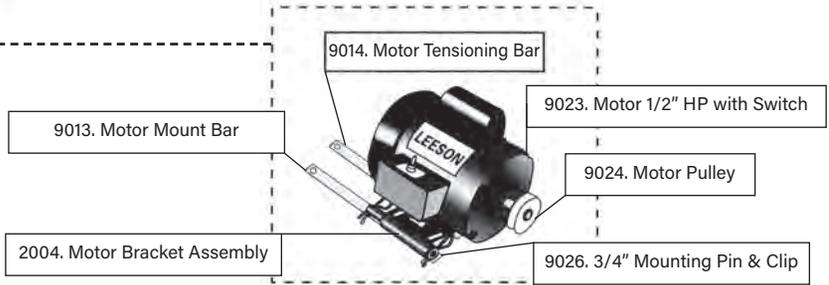
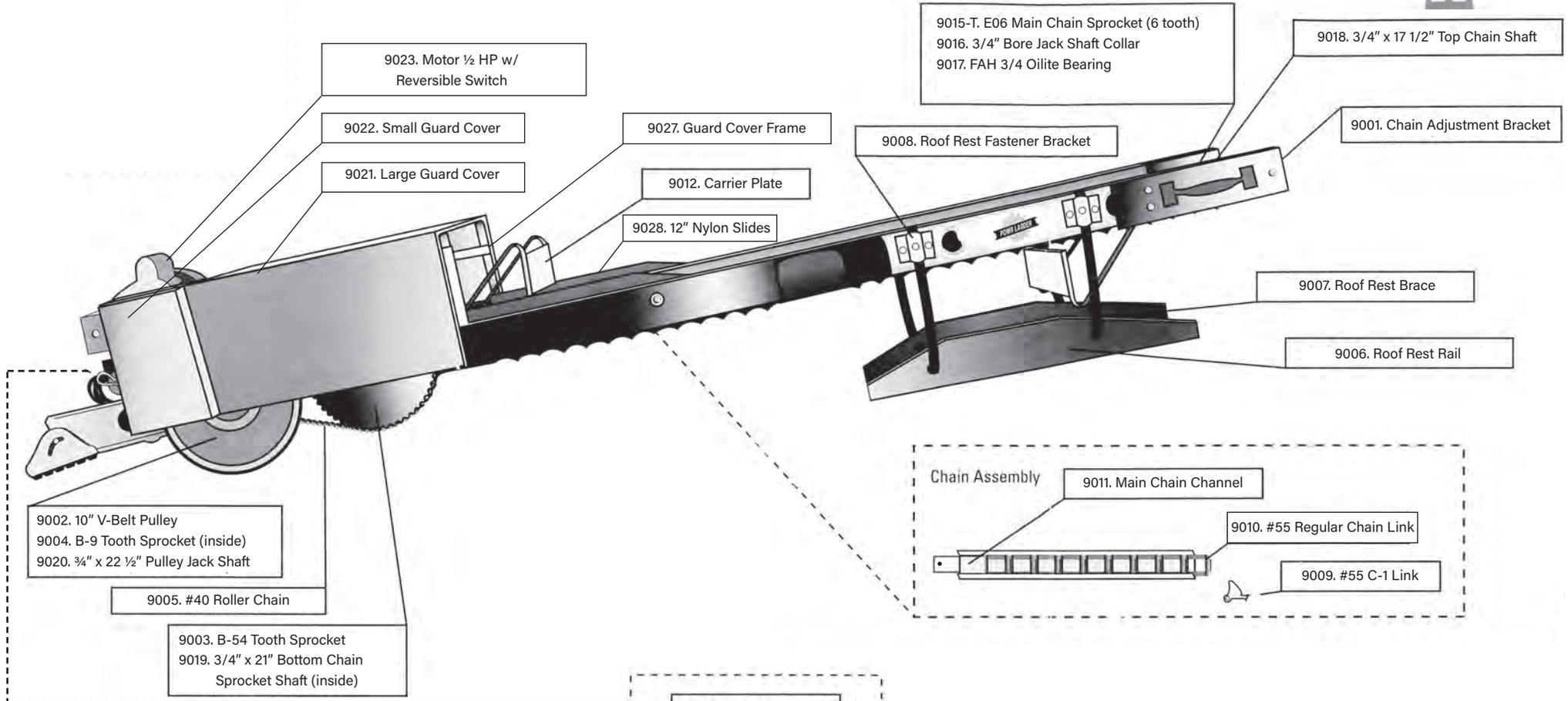
### **Powr Ladder TMS Hoist**

**The Perfect Compliment to your Powr Ladder by Richmond Conveyor**

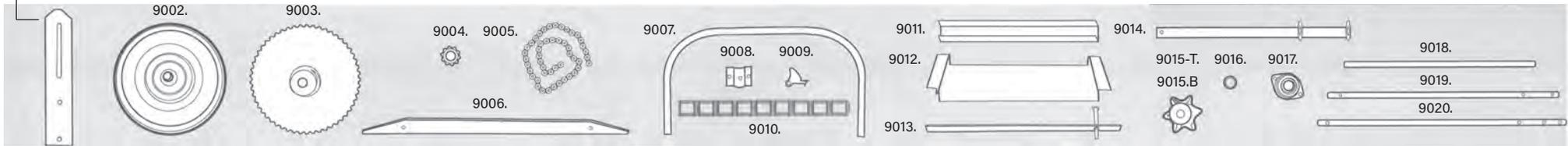
The Powr Ladder TMS Hoist is a lift for the Powr Ladder which makes it more efficient operation for raising and lowering your Powr ladder. The Power Ladder TMS Hoist will raise from a horizontal to vertical position, will turn 360 degrees and is operated by a hydraulic jack. Hoists are usually mounted on either rear corner or center of truck bed. The below deck mount is either bolted or welded under the bed of the truck.



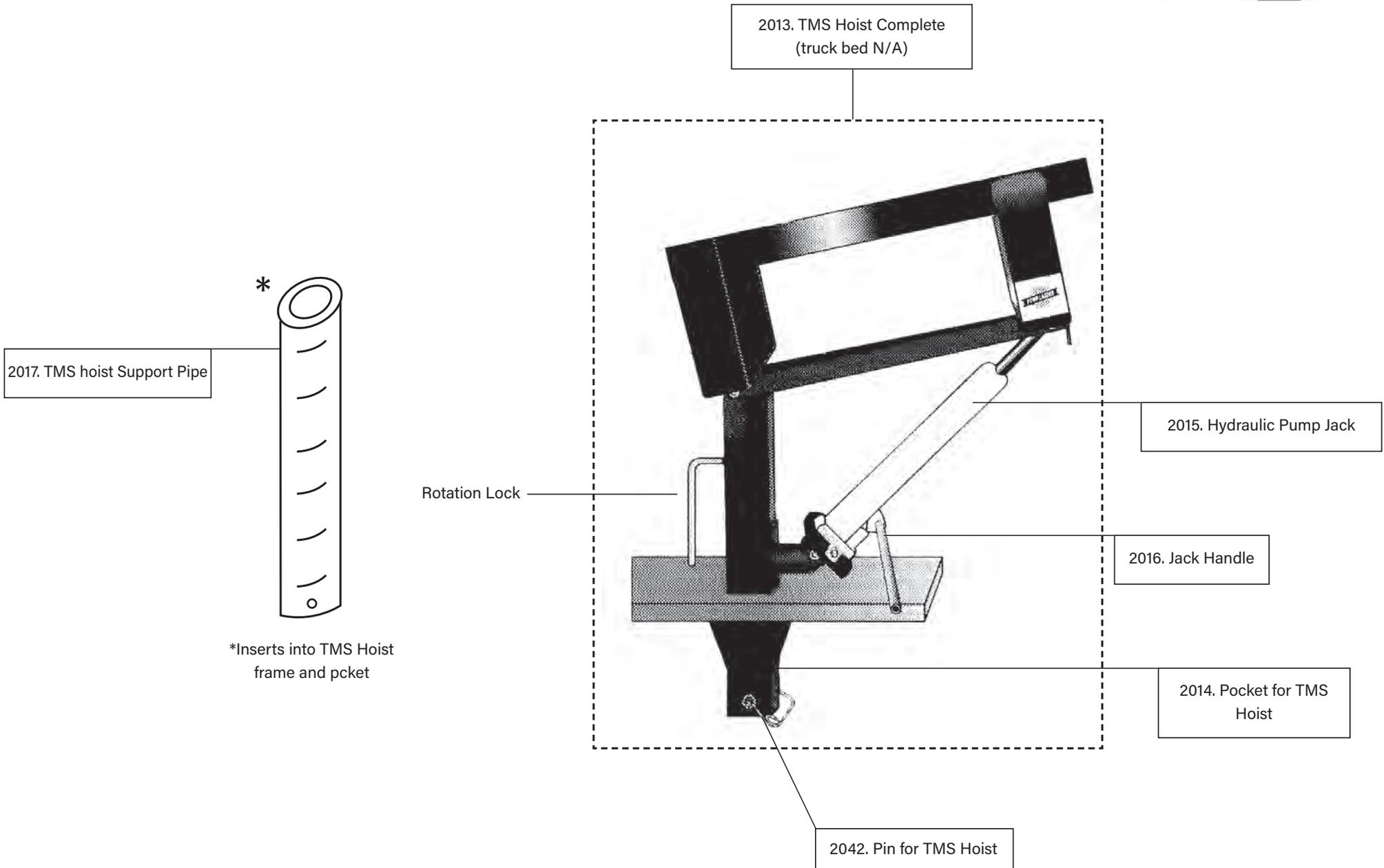
# POWR LADDER Parts Identification



9001-P Passenger Side  
9001-D Driver Side



# TMS HOIST Parts Identification





# by Richmond Conveyor Parts Order Form



## POWR LADDER PARTS

- 9001-P \_\_\_\_\_ CHAIN ADJUSTMENT BRACKET PASSENGER SIDE
- 9001-D \_\_\_\_\_ CHAIN ADJUSTMENT BRACKET DRIVER SIDE
- 9002 \_\_\_\_\_ 10" V BELT PULLEY
- 9003 \_\_\_\_\_ B - 54 TOOTH SPROCKET
- 9004 \_\_\_\_\_ B - 9 TOOTH SPROCKET
- 9005 \_\_\_\_\_ # 40 ROLLER CHAIN
- 9006 \_\_\_\_\_ ROOF REST RAILS
- 9007 \_\_\_\_\_ ROOF REST BRACES
- 9008 \_\_\_\_\_ ROOF REST FASTENER BRACKETS
- 9009 \_\_\_\_\_ # 55 W C - 1 CHAIN LINK (carrier attachment)
- 9010 \_\_\_\_\_ # 55 REG CHAIN LINK 9.78" (pkg of 6)
- 9010-010 \_\_\_\_\_ #55 REG CHAIN 120.62"
- 9010-016 \_\_\_\_\_ #55 REG CHAIN 192.34" (16' conveyor)
- 9010-018 \_\_\_\_\_ #55 REG CHAIN 216.79" (18' conveyor)
- 9010-020 \_\_\_\_\_ #55 REG CHAIN 241.24" (20' conveyor)
- 9011 \_\_\_\_\_ MAIN CHAIN CHANNEL
- 9012 \_\_\_\_\_ CARRIER PLATE (PADDLE)
- 9013 \_\_\_\_\_ MOTOR MOUNT BAR
- 9014 \_\_\_\_\_ MOTOR TENSIONING BAR
- 2004 \_\_\_\_\_ MOTOR BRACKET ASSEMBLY
- 9015-T \_\_\_\_\_ EO6 TOP SPROCKET (6 tooth) W/ SET SCREWS
- 9015-B \_\_\_\_\_ EO6 BOTTOM SPROCKET (6 tooth) W/ BOLT
- 9016 \_\_\_\_\_ 3/4 "BORE JACK SHAFT COLLAR
- 9017 \_\_\_\_\_ FAH 3/4 OILITE BEARING
- 9018 \_\_\_\_\_ 3/4" X 17 1/2" TOP CHAIN SHAFT
- 9019 \_\_\_\_\_ 3/4" x 21" BOTTOM CHAIN SPROCKET SHAFT (Inside)
- 9020 \_\_\_\_\_ 3/4" X 22 1/2" PULLEY JACK SHAFT
- 9021 \_\_\_\_\_ LARGE GUARD COVER
- 9022 \_\_\_\_\_ SMALL GUARD COVER
- 9023 \_\_\_\_\_ MOTOR 1/2 HP w/ REVERSE SWITCH
- 9024 \_\_\_\_\_ 2 1/2 X 5/8" MOTOR PULLEY
- 9025 \_\_\_\_\_ 38" V BELT CONTINTECH A35

- 9026 \_\_\_\_\_ 3/4" MOUNTING PIN & CLIPS
- 9027 \_\_\_\_\_ GUARD COVER FRAME
- 9035-16 \_\_\_\_\_ LADDER SECTION 16'
- 9035-18 \_\_\_\_\_ LADDER SECTION 18'
- 9035-20 \_\_\_\_\_ LADDER SECTION 20'

## TMS HOIST PARTS

- 2013 \_\_\_\_\_ TMS HOIST COMPLETE
- 2014 \_\_\_\_\_ POCKET FOR TMS HOIST
- 2015 \_\_\_\_\_ HYDRAULIC PUMP JACK
- 2016 \_\_\_\_\_ JACK HANDLE
- 2017 \_\_\_\_\_ TMS HOIST SUPPORT PIPE (Inner Rotation Pipe)
- 2092 \_\_\_\_\_ PIN FOR POCKET TMS HOIST

(OTHER) \_\_\_\_\_



Ship to:

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Bill to:

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PO#:

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