



Toll Free: 1-800-579-8088 Web: www.zinko.com

MODEL

**ZPL-2510**

Mechanical Pulling Jack

## Operation & Maintenance Manual

### Safety Information

Read and follow all WARNINGS, CAUTIONS and INSTRUCTIONS included with each product to use the product correctly and to avoid personal injury or property damage during system operation. ZINKO can not be held responsible for damage or injury resulting from unsafe use of products, lack of maintenance or incorrect system application.

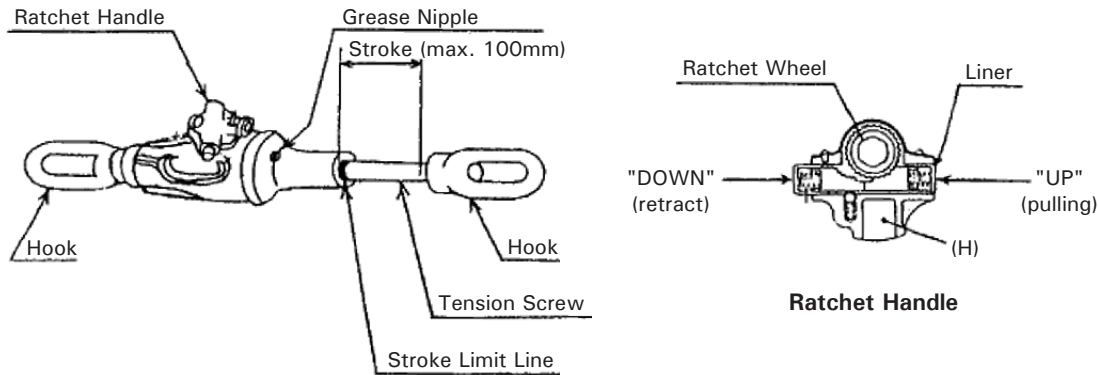
### Application

1. This jack applies exclusively to pulling operations. DO NOT use for any other purpose than stated above such as pushing, lifting, or lowering a heavy load.
2. Electric driven is not available, so be sure to operate jack manually.
3. Operators shall be experienced or appointed by the supervisor.

### Specifications and Components

Ambient temperature range: -20°C + 60°C

Model	Pulling Force (ton)	Stroke (in)	Handle Bar (ø x in)	Weight (approx. lb)	Operating Torque (approx. lb.ft.)
ZPL-2510	25	3.94	ø 1 x 27.6	71	12000



### Safety Information

Read the manual before operation to avoid personal injury or damage to equipment. Operators shall be instructed on the proper use of the jack(s) by an experienced user, or by a person who is appointed by the supervisor.

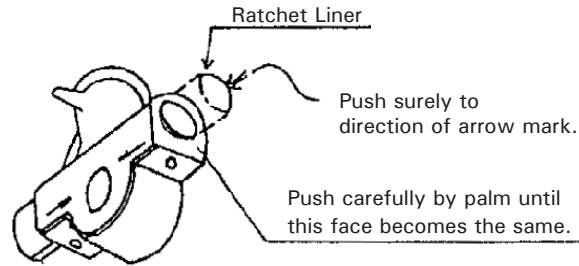
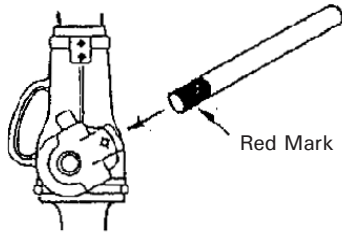
#### ⚠ WARNING

##### For Your Safety and to Prevent Injury

1. DO NOT operate jack beyond its rated capacity.
2. Remove handle bar if jack is not operated and install jack on solid base. Take care not to drop handle bar if jack is operated at a high place.
3. DO NOT use jack if damaged, altered or in poor repair.
4. DO NOT apply slant loads or shock loads to jack.
5. Pull load straight to the center of load receivable part.
6. DO NOT throw or drop jack.
7. DO NOT use jack beyond stroke limit mark on the ram (red line). If operated by force, jack gets locked and causes defect of jack.
8. DO NOT operate jack when hook touches jack body. If operated by force, "screw" gets locked causing defect of the jack.
9. Use the attached handle bar and insert it fully into the bottom part of socket until red mark of handle bar disappears. Also push ratchet liner completely.
10. Operate jack at safety position. Arrange support (fix metal) to the load after pulled off.
11. Safety shoes, gloves, helmet and clothes are recommended to protect operators.
12. This guide cannot cover every situation, so always do the job with safety in mind.

# Zinko Hydraulic Jack

Model: ZPL-2510



## Pre-Use Inspection (preliminary check by operator)

1. Turn ratchet handle to check whether ram goes up and down slowly.
2. Check jack visually for general condition before use.

## Operating Instructions

### 1. General Items

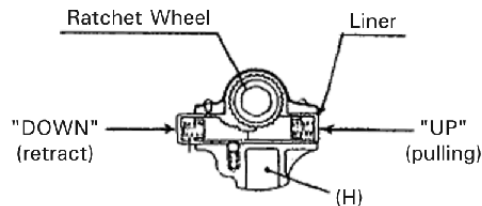
- a) Handle bar must be operated by hand.
- b) Place jack at the safety area so that safe operation and adjustment of jack can be secured.
- c) Make sure that the jack's pulling capacity is appropriate to the job for safety reasons.
- d) Jack is designed for indoor use only and is not protected from rain or water. Shorten interval of maintenance when using outdoors or in rough conditions. Particularly take care of rust resistance of jack and supply grease prior to outdoor use. In the case of extended outdoor use or bad conditions such as coastal use, please contact **ZINKO**.

### 2. Using More Than One Jack

- a) When using more than one jack, the load may tend to be applied unevenly to each jack. Be sure to select jacks that have the appropriate capacity for the job. Normally use jack not more than 50% to 70% of the rated capacity.
- b) *Instruction and sign operation* - Take care of movement of load when operating jack(s). When using more than one jack, operation order of each jack should be determined in advance to avoid any hazards.

### 3. How to Use

- a) Insert handle bar (H) into the bottom of socket part of ratchet handle. When pulling, push liner of ratchet handle to "UP" position and operate handle bar. When retracting, push liner of ratchet handle to "DOWN" position and operate handle bar as shown below.



Ratchet Handle

## Maintenance

### Visual Inspection

1. **Marking Plate** - Make sure specifications and warning plate are not detached.
2. **Body and Ratchet Handle** - Make sure body and ratchet handle are not cracked or damaged.
3. **Hook** - Make sure the hook is not loosened or cracked at load receiving parts. Check hooks for any other harmful damage.
4. **Ram and Key** - Check the ram and key for harmful score at sliding parts, or for any other damage.
5. **Bolts** - Make sure bolts and set screw are not loosened.

### Operation

1. **Ratchet Handle** - Make sure that there is proper engagement and function of ratchet wheel and plungers.
2. **Screw Thread** - Check for excessive wear and damage, and no backlash on ram.
3. **No Load Operation** - Make sure there is no unusual function for ram and pinion. If ram and pinion is malfunctioning, bring the jack to supplier for disassembly.

## Notes

1. **Pre-Use Check:** a) By operator without records. b) Every time prior to operation.
2. **Regular Check:** a) By an appointed person in charge of making records of apparent external to provide the basis for continuing evaluation. b) Do regular checks on a fixed date depending on the frequency of use:

Rare Frequency of Use (monthly use).....once every three months  
Frequent Use (weekly use)..... once a month  
Outdoor Use or Bad Conditions..... once a week

3. If external conditions indicate possible internal difficulty, contact your dealer.

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REV 092007

## Lubrication (grease supply)

Eliminate dust from friction part or rotating part of jack and supply grease regularly to remove dust.

**NOTE: Use Daphne Eponex Grease EP.No.1 or equivalent.**

1. Supply grease from grease nipple for lubricating inside the jack.
2. Supply grease to rotary part of ratchet wheel.
3. Supply grease to shaft part of ratchet liner.
4. Supply grease to slide part of tension screw.
5. Supply grease from grease cup of ratchet handle.

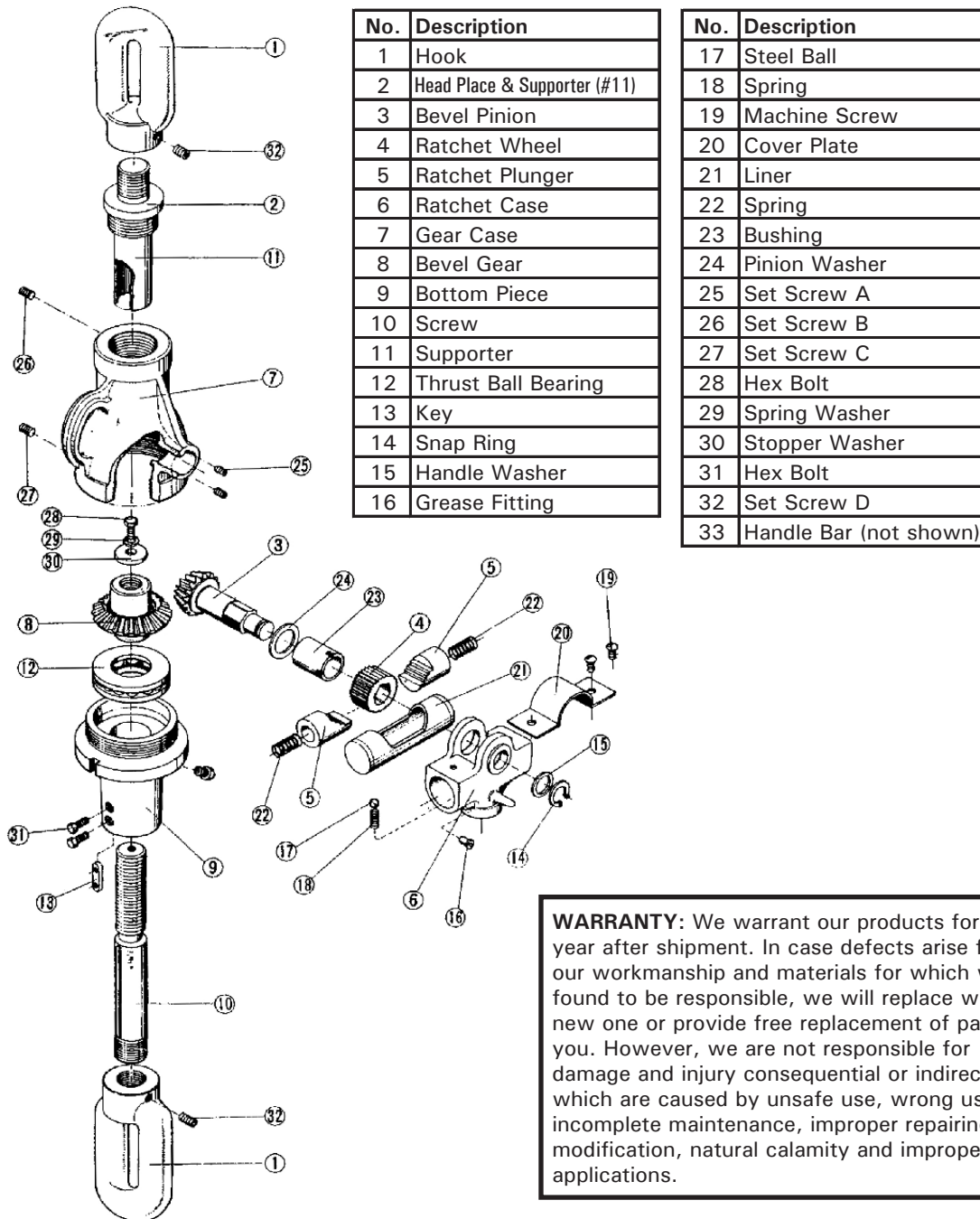
**Cleaning** Jacks exposed to rain, sand in the middle of a cloud of dust must be cleaned prior to use.

Jack operating handle bar and load-bearing surfaces should be free of slippery material or fluids.

## Storage

Jack should be stored where it will be protected from the elements, abrasive dust, and damage.

## Parts Breakdown



**WARRANTY:** We warrant our products for one year after shipment. In case defects arise from our workmanship and materials for which we found to be responsible, we will replace with a new one or provide free replacement of parts to you. However, we are not responsible for damage and injury consequential or indirect, which are caused by unsafe use, wrong use, incomplete maintenance, improper repairing, modification, natural calamity and improper applications.