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## IMPORTANT

To fill out a Product Warranty Validation form, and for information on your warranty, visit Stanleyhydraulics.com and select the Company tab, Warranty. (NOTE: The warranty Validation record must be submitted to validate the warranty).

**SERVICING:** This manual contains safety, and operation instructions. Stanley Hydraulic Tools recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

## DANGER

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.
DECLARATION OF CONFORMITY

I, the undersigned:
Ich, der Unterzeichnende:
Je soussigné:
El abajo firmante:
Lo sottoscritto:

Weisbeck, Andy

Surname and First names/Familienname und Vorname/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder:
bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät:
déclare que l'équipement visé ci-dessous:
Por la presente declaro que el equipo se especifica a continuación:
Dichiaro che le apparecchiature specificate di seguito:

1. Category: Track Jack
   Kategorie:
   Catégorie:
   Categoria:
   Categoria:

2. Make/Marke/Marque/Marca/Marca: Stanley
   Marke:
   Marque:
   Marca:
   Marca:

3. Type/Typ/Type/Tipo/Tipo: TJ10111M, TJ10111MF, TJ10112M
   Typ:
   Type:
   Tipo:
   Tipo:

4. Serial number of equipment:
   Seriennummer des Geräts:
   Numéro de série de l'équipement:
   Numero de serie del equipo:
   Matricola dell’attrezzatura:
   All

Has been manufactured in conformity with
Wurde hergestellt in Übereinstimmung mit
Est fabriqué conformément
Ha sido fabricado de acuerdo con
E’ stata costruita in conformità con

<table>
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5. Special Provisions: None
   Spezielle Bestimmungen:
   Dispositions particulières:
   Provisiones especiales:
   Disposizioni speciali:

   Vertreter in der Union/Représentant dans l’union/Representante en la Union/Rappresentante presso l’Unione
   Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon, USA Date/Datum/le/Fecha/Data 3-22-11
   Signature/Unterschrift/Signature/Firma/Firma
   Position/Position/Fonction/Cargo/Posizione Director of Product Development
SAFETY SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

This signal word indicates a potentially hazardous situation which, if not avoided, may result in property damage or damage to the equipment.

This signal word indicates a situation which, if not avoided, may result in damage to the equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.
Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided.

GENERAL SAFETY PRECAUTIONS

- The user must be familiar with correct operation, maintenance, and use of the jack. Lack of knowledge can lead to personal injury.

- Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.

- Always wear safety equipment such as goggles, gloves, head, and safety shoes at all times when operating the tool.

- Warning: Hydraulic fluid under pressure could cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.

- The total load lifted or supported by the jack must never exceed the rated capacity. Excess pressure can result in personal injury. Use a jack with sufficient capacity to lift a load. Keep clear of lifted loads.

- Inspect each jack before each usage or shift to prevent unsafe conditions from developing.

- Properly support the jack.

- Do not put poorly balanced or off-center loads on the jack pad or jack. The load can tip and cause personal injury. Do not use in unstable or hazardous positions.

- The jack must be used on flat surfaces to be able to carry the load correctly. The base must be completely supported. Do not push or lift on the ends of the base.

- Do not lift people, or loads with people on them.

- As the load is lifted, use blocks or cribs to guard against a falling load.

- To help prevent personal injury, do not allow personnel to go under, or work on, a load before it is properly cribbed or blocked. All personnel must be clear of a load before lowering or lifting.

- Lift only dead weight loads. Do not add additional weight to a lifted load.

- Do not use jacks that are damaged, altered or in poor condition.

- The reservoir must have sufficient hydraulic fluid to fully stroke the jack. Use only approved hydraulic fluids.

- Read and understand the operating instructions in this manual, and the ASME B30.1 and EN 1494 safety code for jacks.

- Users must ensure that all safety related decals and stickers are whole and readable. Replace those which become unreadable.
GENERAL SAFETY PRECAUTIONS CONTINUED:

- Never use extreme heat to disassemble a hydraulic ram or cylinder. Metal fatigue can lead to unsafe conditions.
- Be aware of possible "pinch points" of the jack, and stay clear to avoid personal injury.
- When lifting with the edge of the lifting toe, place a wedge between the load and the top of the lifting toe to avoid bending the cylinder column.
- Carry the jack only by the carrying handle. Make sure the jack is in the fully lowered position.
- End users must be trained in the proper use of the jack.
- Remove operating levers when not in use to avoid accidental dislocation of the jack, and reduce the tripping hazard.
- Make sure all personnel are clear of the load before lifting or lowering.
- DO NOT use extenders unless authorized by a qualified person.
- Never use this tool when working around electrified rail unless it is de-energized or you have been properly trained to work on electrified rail. If you are not sure the rail is live or not, you must treat it as being live and dangerous to life.
The following information is found on the base of the Track Jack:

- Model Number
- Capacity
- Maximum Pressure
- Date
GENERAL PROTECTION

Store the Track Jack in an upright position, in a place where it is protected from the elements, abrasive dust, and damage.

Use only recommended repair and replacement parts and materials specified in the Parts List section of this manual.

Do not use the jack for applications it was not designed for.

Use the carrying handle to transport the Track Jack from location to location. Do not carry the Track Jack by inserting the jack handle in the socket.

CLEANING

Establish a routine to keep the jack as free from dirt as possible – daily, or at each shift change, for example.

Jacks exposed to rain, sand, or grit-laden air should be cleaned prior to each use.

Exposed screw threads should be cleaned and re-lubricated as necessary.

Keep the cylinder clean at all times. Keep the piston retracted when not in use.

Operating lever and load-bearing surfaces should be free of slippery material or fluids.

Keep tool labels and stickers legible.

HYDRAULIC FLUID

The Track Jack holds approximately 28 ounces/820 cc cubic inches of hydraulic fluid in its reservoir.

DANGER

DO NOT USE BRAKE FLUID OR OTHER NON-APPROVED SUBSTITUTE FLUIDS. LIGHTER WEIGHT FLUIDS MAY CAUSE THE JACK TO FAIL UNDER LOAD.

ADDING FLUID WHEN NEEDED

A jack that is low on hydraulic fluid can lift a full load, but not to the full lift height. As the reservoir begins to run dry, the lever socket becomes very easy to pump, and the jack stops lifting. To add oil:

1. Fully retract the plunger.
2. Remove the fill plug.
3. Fill the reservoir with new, clean fluid (use ISO#15 Hydraulic Fluid) to a level 1/8 inch below the bottom of the fill plug hole.

WARNING

Do not overfill or underfill the reservoir as this may damage the jack.

ANNUAL FLUID CHANGE

Regardless of usage, the Track Jack hydraulic fluid should be changed annually to ensure proper operation of the jack. To drain the fluid:

1. Thoroughly clean the area around the fill plug.
2. Remove the fill plug and lay the Track Jack on its back to allow the fluid to drain from the fill hole into an appropriate receptacle.
3. Dispose of the used hydraulic fluid in accordance with Environmental Protection Agency regulations.
4. Make sure dirt or other contaminants do not enter the reservoir while the fill plug is removed. When drained, check the fluid for contaminants. If the fluid appears gritty or dirty, flush the reservoir with clean hydraulic fluid before refilling.
5. Refill the reservoir with the recommended hydraulic fluid. Stand the jack upright, and with the piston fully retracted, fill the reservoir until the fluid level is 1/8 inch below the bottom of the fill plug.
6. Before returning the jack to service, fully extend the piston without a load by pumping the pump handle without the long extension handle. If the fluid level is correct, the pump handle will become almost impossible to pump by hand as the piston reaches full extension. Replace the plug.
7. It may be necessary to bleed air out of the cylinder. See instructions below for purging air.

8. Inspect the jack for leaks, cracks, or other damage.

DANGER
Immediately take out of service any jack that appears to be damaged or leaking.

PURGING AIR

Air trapped within the jack hydraulic system can be removed by performing the following steps.

1. Make sure the plunger is fully retracted.

2. Pry out the cap on top of the unit.

3. Loosen (Do Not Remove) the capscrew under the cap located in the top of the plunger.

4. Place the jack in a suitable fixture to prevent the extension of the plunger while purging air.

DANGER
The fixture used to prevent extension of the plunger while purging air must be able to withstand the full ten ton force of the jack.

5. Add hydraulic fluid to the reservoir if necessary. See instructions above for adding fluid.

6. Pump the handle until oil comes up through the thread area of the capscrew in the plunger.

7. Tighten the socket head capscrew to 10-12 ft. lbs./14-16 Nm.

8. Top off the reservoir with hydraulic fluid. NOTE: Make sure the plunger is fully retracted before filling the reservoir.
OPERATING INSTRUCTIONS

PREOPERATION PROCEDURES

Before putting a new Track Jack into initial service, or after an extended period of being unused, perform a visual inspection for bent, broken, cracked, missing or worn components. Ensure the hydraulic fluid and lubricant level is correct. Fully extend and retract the jack without a load to ensure that the jack is primed and operating properly.

RAISING A LOAD

1. Before using the Track Jack, make sure that it is set on a firm surface capable of bearing the intended load.

2. Make sure the release valve is closed, by turning it clockwise until it is hand tight.

3. Pump the handle by hand until the toe lift or head lift plate rises to and engages the load.

4. Insert the jack handle fully into the handle socket and pump until the desired lift has been obtained.

5. Remove the jack handle from the handle socket once the load reaches its desired height.

6. Crib or block the load to prevent accidently dropping the load.

LOWERING A LOAD

1. Make sure all personnel are clear of the load.

2. Remove cribbing or blocking if used.

3. Open the release valve by turning it counterclockwise (open slowly).

4. When the load reaches the desired level, close the release valve by turning it clockwise until it is hand tight.

HORIZONTAL OPERATION

The Track Jack can also be used horizontally to separate two items, as long as it is placed with the handle socket facing upwards.

1. Place the Track Jack base against the largest, heaviest, or otherwise least moveable of the two items.

2. Close the release valve by turning it clockwise until hand tight.

3. Pump the handle socket by hand until the lifting toe or the head of the lifting toe firmly engages the more moveable of the two items.
4. Make sure personnel are clear of all items being jacked before attempting to move anything.

5. Insert the jack handle into the handle socket and pump until the desired separation has been obtained.

6. Remove the jack handle from the socket once the moveable load reaches its desired separation.

7. To free the jack, open the release valve by turning it counterclockwise. When the lift plate is clear, close the release valve.

### TROUBLESHOOTING

If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem.

Because the Track Jack can be used for many different applications, this information is general in nature and does not address specific uses.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>CORRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack will not raise</td>
<td>A) Release valve not closed</td>
<td>Close the valve</td>
</tr>
<tr>
<td></td>
<td>B) Release valve ball not seating properly</td>
<td>Have jack serviced by a qualified technician</td>
</tr>
<tr>
<td></td>
<td>C) Seal failure</td>
<td>Have jack serviced by a qualified technician</td>
</tr>
<tr>
<td>Jack raises but will not hold</td>
<td>Release valve ball not seating properly</td>
<td>Have jack serviced by a qualified technician</td>
</tr>
<tr>
<td></td>
<td>Relief valve set too low or Malfunctioning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seal failure</td>
<td>Have jack serviced by a qualified technician</td>
</tr>
<tr>
<td>Jack only raises part way</td>
<td>Hydraulic fluid level is low</td>
<td>Add hydraulic fluid</td>
</tr>
<tr>
<td>Jack leaks hydraulic fluid</td>
<td>Seal failure</td>
<td>Have jack serviced by a qualified technician</td>
</tr>
<tr>
<td>Jack retracts slowly</td>
<td>Air in the hydraulic system</td>
<td>Purge air from the hydraulic system</td>
</tr>
<tr>
<td>Jack raises, but pulses and</td>
<td>Air in the hydraulic system</td>
<td>Purge air from the hydraulic system</td>
</tr>
<tr>
<td>hesitates</td>
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**WARNING**

NEVER LIFT OR LOWER A LOAD HEAVIER THAN THE LOAD RATING OF THE JACK. DAMAGE TO THE JACK OR LOAD COULD RESULT FROM IMPROPER USE OF THIS TOOL.

**PUMPING HANDLE**

A pumping handle is included with the Track Jack is designed with a 4:1 safety factor. DO NOT use the pumping handle for any other purpose. DO NOT substitute other material for use as a pumping handle.
SPECIFICATIONS

Performance
Maximum Lift.......................................................................................................................... 8.9 in. /226 mm
Maximum Load.......................................................................................................................... 10 tons/9070 kg
Pump Displacement .............................................................................................................. .46 cu. in/7.5 cc stroke, single speed
Advance rate per stroke ........................................................................................................ .14 in./3.6 mm
Pressure at rated load ........................................... 7300 psi/500 bar Model TJ10, (7150 psi/493 bar Model TJ10M)
Maximum pump handle effort .................................................. 80 lbs./355 N

Dimensions and Weight
Baseplate Size.......................................................................................................................... 6 x 11 in./15 x 28 cm
Lift Toe Width and Depth ..................................................................................................... 2-1/2 x 3/63 x 76 mm
Height (retracted) ......................................................... 14.5 in/37 cm Model TJ10, (14.75 in/37.5 cm Model TJ10M)
    extended ................................................................. 23.4 in./59 cm Model TJ10, (23.56 in/60 cm Model TJ10M)
Net Weight (less oil) ........................................................ 43 lb/20 kg Model TJ10, (44 lb/20 kg Model TJ10M)
Lever Bar Length .................................................................................................................. 36 in./ 80 cm

Hydraulic Requirements
Reservoir Capacity ................................................................. 28 oz/820 cc
Recommended Fluid ................................................................. ISO #7 Hydraulic Fluid.

Standards ................................................................................................................................. ASME B30.1, EN 1494

NOTE: Weights, dimensions and operating specifications listed on this sheet are subject to change without notice. Where specifications are critical to your application, please consult the factory.
NOTE: Item descriptions which are preceded by a item number may be ordered individually.

NOTE: Item descriptions which are preceded by a symbol are only available in their respective repair kits.

CHECK PARTS LIST PAGES FOR KIT PART NUMBERS. ENSURE YOU ORDER THE PROPER KIT.

- = Included in Cylinder Repair Kit
- = Included in Carrying Handle Repair Kit
+ = Included in Reservoir Repair Kit
= = Included in Pump Repair Kit
- = Included in Release Valve Repair Kit

Manifold Assembly P/N-34873
Includes all items shown except pump handle 34870.
# Parts List

## TJ10

<table>
<thead>
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<td>Cap</td>
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<tr>
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**NOTE:** When ordering parts make sure to check the (Model Number) on your track jack to distinguish between a TJ10 and TJ10M.

## Kits for Model TJ10111 & TJ10112 Only

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<td>Beam &amp; Piston Repair Kit</td>
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<td>Pump Repair Kit</td>
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<tr>
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<td>Release Valve Repair Kit</td>
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## *Kits for Model TJ10111M & TJ10112M Only*

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</tr>
<tr>
<td>56524</td>
<td>Reservoir Repair Kit</td>
</tr>
<tr>
<td>56525</td>
<td>Beam &amp; Piston Repair Kit</td>
</tr>
<tr>
<td>56526</td>
<td>Pump Repair Kit</td>
</tr>
<tr>
<td>56527</td>
<td>Release Valve Repair Kit</td>
</tr>
</tbody>
</table>

* "M" Models Begin With S/N 5000.
REPAIR KITS

SPRING KIT
P/N 56520

COP Screw
Gasket
Spring Assembly

REAR & PISTON REPAIR KIT
P/N 56525 (Manifold not Included)

Retaining Ring
Piston Link
Beam
Pin
Retaining Ring
Piston
Pin
Retaining Ring

PUMP REPAIR KIT
Manifold (not included)
P/N 56526

Viper Back-up Washer
O-ring
Steel Ball
Pipe Tube & Fleen Ealy

CYLINDER REPAIR KIT
P/N 56522

Retaining Ring
Gasket
Bearing
Viper
Cap Seal
Back-up Ring
O-ring

RELEASE VALVE REPAIR KIT
P/N 56527

Knob
Set Screw
Spindle
O-ring
Steel Ball
Screw

RESERVOIR REPAIR KIT
P/N 56524

Reservoir
Copper

CARRY HANDLE REPAIR KIT
P/N 56523

Handle
Rat Pin