

TRIPOD JACK USAGE INSTRUCTIONS

Want to feel confident when raising and lowering your multimillion dollar aircraft on jacks?

Your Tronair tripod jack is engineered, built, and tested to the highest standards of quality and workmanship. Under normal usage and with proper maintenance the tripod jack will provide exceptional service.

WARNING!

NEVER put hands between the aircraft and the jack pad, after aircraft has been lowered, struts may have hung up.

2. NEVER align jack under aircraft by pounding on jack legs. Dented legs may lead to jack collapse.

RELEASE VALVE - DOWN

NOTE: Your tripod jack may not have all of the features shown.

3. NEVER place hands on top of jack near hand wheel safety nuts while lowering jack. Pinch points exist between top of jack and threads on ram.

4. ALWAYS lower hand wheel safety nut(s) after jack is under load. Be sure hand wheel safety nut(s) is seated fully after raising.

- 5. ALWAYS raise and lower jacks simultaneously so that aircraft remains level.
- 6. ALWAYS use a tail or nose stand, as applicable, for additional stability.
- **ALWAYS** wear safety glasses.
- 8. The hand wheel safety nuts are user-operated safety devices. Failure to utilize these safety nuts may result in personal injury or death.
- 9. When raising and lowering jack always keep the hand wheel safety nut within 1 inch from the top of the jack.



HAND WHEEL SAFETY NUT FILL/BREATHER CAP K-1106 Manifold Kit MANUAL PUMP LEVER - UP **RESERVOIR** HYDRAULIC FLUID LINES AIR PUMP VALVE HAND PUMP AIR PUMP

MAINTENANCE SCHEDULE CHECKLISTS:

90 DAY MAINTENANCE SCHEDULE - record all inspections on a data sheet

- Operate jack, raise and lower completely 3 times and store jack with ram in retracted position. Do not over pressurize once fully extended
- Check hydraulic system for leaks
 - Hydraulic fluid lines
 - Hand pump
 - Reservoir release valve
 - Air pump (optional equipment) Check jack structure for corrosion and excessive wear
 - - Locking pins Mechanical extension
 - Welded joints
 - Hand wheel safety nut

Check fluid level with rams fully retracted

- Jack pads
- Extend rams and visually inspect for corrosion, foreign matter and excessive wear
- Check air pump if equipped (reference air pump service manual)
- Check paint condition, touch up areas that are exposed
- Lubricate threaded ram with DoAll, RPM, LPS or equivalent water repellant that is Buna N compatible
- Open release valve and verify that rams fully retract with an approximate load of 50 lbs. or less
- Lubricate casters

12 MONTH MAINTENANCE SCHEDULE - record all inspections on a data sheet

- Check hydraulic fluid for contamination (dirt/water) drain and flush if required Perform 90 day maintenance schedule
- Check pressure relief valve on hand pump
- Load test per manufacturer's instructions

NOTE: The jack may be returned to Tronair for load testing or sent to an Tronair authorized service center.

USAGE PROCEDURE

RULES FOR OPERATION

(OPTION ONLY)

WHEEL

- 1. The user shall work in accordance with the Operator and/or Technical Manuals.
- 2. At no time shall personnel work under the raised load until it is secured by suitable means, i.e. ram hand wheel safety nut.
- 3. The employer of the operator shall provide all necessary training and provide information about pumping and translating forces. 4. Operate jack between -4° F and 122° F (-20° C and 50° C).
- 5. Do not store outside.

TO RAISE AIRCRAFT:

- 1. Place jack on a hard, level surface.
- 2. Raise mechanical extension as close to aircraft jack pad as possible.
- 3. Close pump release valve by turning clockwise.
- NOTE: Turning the pump release valve counter-clockwise lowers the jack. Turning the pump release valve clockwise stops the jack's descent, and allows it to be raised.
- 4. Operate the hand pump using the handle, or by opening the air valve (if equipped with an air pump). Raise aircraft per manufacture's procedure.
- 5. Lower hand wheel safety nut(s) as aircraft is raised keeping no more than 1" between nut and top of jack.

TO LOWER AIRCRAFT:

- 1. Lower all jacks simultaneously.
- 2. If ram hand wheel safety nut(s) is tight, raise jack slightly to release hand wheel safety nut(s). 3. Loosen pump release valve slightly to slowly lower aircraft. Raise hand wheel safety nut(s) as jack ram(s) lower keeping
- no more than 1" between hand wheel safety nut and top of jack.

NOTE: If aircraft is to be washed place cover over entire jack to prevent water or chemicals from getting on the jack or pump.

CORRECT PIN PLACEMENT

HAND WHEEL SAFETY NUTS:

STANDARD FEATURES

- Designed for speed and locking of tripod jacks
- Ensures safe operation of tripod jacks Cast handle completely surrounds the pinch point
- Outside Diameter: H-2331, H-2334 & H-2335 8 in (20.3 cm)

K-3218...... 10 in (25.4 cm) & 12 in (30.5 cm)

K-3236...... 8 in (20.3 cm) & 10 in (25.4 cm)

SAFETY NUT: One nut per jack

H-2331 - 10 & 12 Ton Single Stage Jacks H-2334 - 5 Ton Single Stage Jack

H-2335 - 5 Ton Two Stage Jack

SAFETY NUT: One kit per jack (Kit includes a second stage safety nut if required)

K-3218 - 18, 25 & 30 Ton Single Stage Jacks

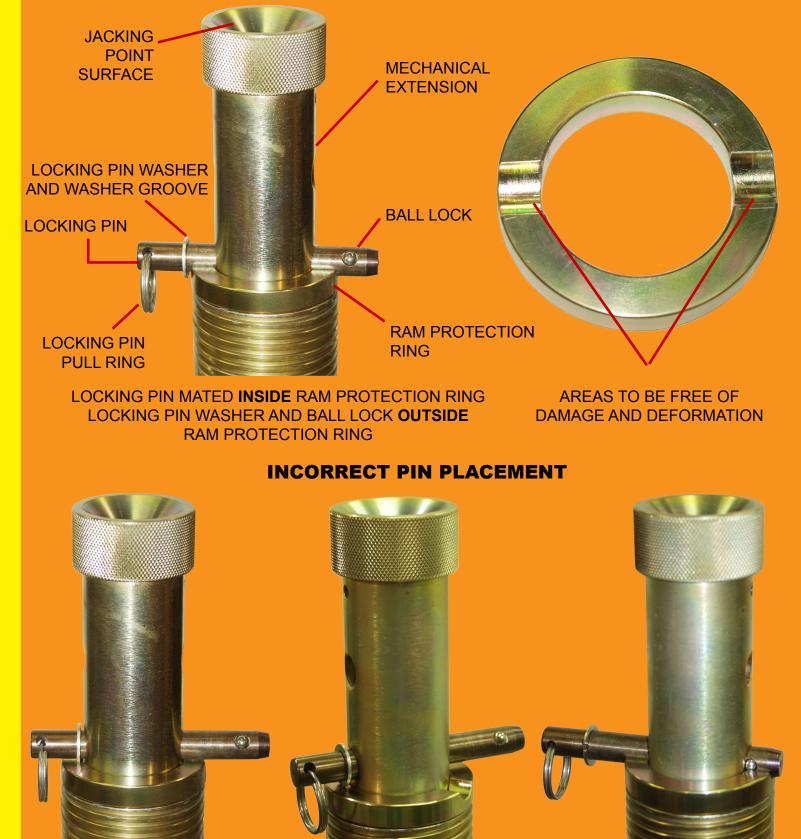
K-3236 - 10 & 12 Ton Two Stage Jacks

NOTE: Learjet hand wheel safety nut(s) shall be installed upside down

JACKS WITH LOCKING PIN WASHER

WARNING!

- The locking pin MUST be placed in the ram protection ring groove and fully through the mechanical extension.
- The locking pin washer and ball lock MUST be placed outside the ram protection
- Do not place extra locking pins in any other hole on the mechanical extension.
- **Ensure mating surfaces to** jack point are free of debris and damage.
- **Under no conditions should** the locking pin washer or washer groove be inside the ram protection ring groove.
- **Under no conditions should** the locking pin's ball lock be inside the ram protection ring groove.
- Never use the jack if the ram protection ring is not installed.
- **Never use the locking pin** without a locking pin washer.
- **Never use a locking pin that** has been damaged or bent.
- **Never use a ram protection** ring that has been damaged or deformed.
- Failure to comply could result in premature failure below certified weight and could cause serious injury including death.
- **Never use bolts or other pins** as a locking pin.
- **Only use Tronair approved** locking pins.



LOCKING PIN WASHER

ON TOP OF

RAM PROTECTION RING

JACKS WITHOUT LOCKING PIN WASHER

WARNING!

RAM PROTECTION RING

BALL LOCK **INSIDE**

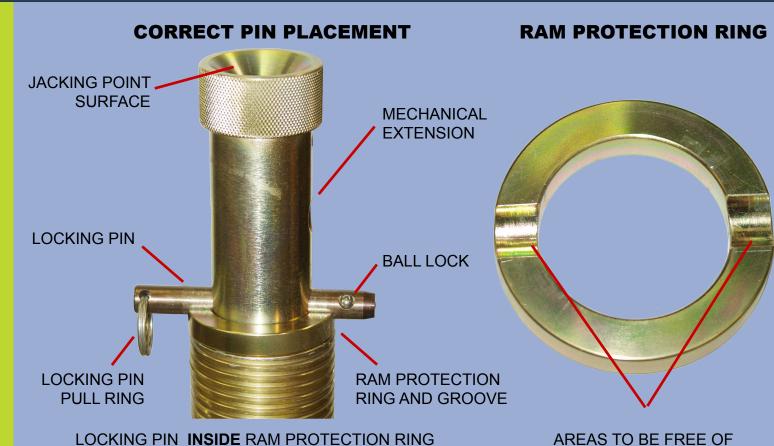
RAM PROTECTION RING

- The locking pin MUST be placed in the ram protection ring groove and fully through the mechanical extension.
- The ball lock MUST be placed outside the ram protection
- Do not place extra locking pins in any other hole on the mechanical extension.
- and damage. **Under no conditions should** the locking pin's ball lock be inside the ram protection ring

Ensure mating surfaces to

jack point are free of debris

- groove. Never use the jack if the ram protection ring is not
- installed. Never use a locking pin that
- has been damaged or bent. Never use a ram protection ring that has been damaged or deformed.
- Failure to comply could result in premature failure below certified weight and could cause serious injury including death. **Never use bolts or other pins**
- as a locking pin.
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INCORRECT PIN PLACEMENT

DAMAGE AND DEFORMATION

BALL LOCK AND PULL RING **OUTSIDE**

RAM PROTECTION RING





LOCKING PIN WASHER INSIDE

RAM PROTECTION RING

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RAM PROTECTION RING