



HEAVY EQUIPMENT JACKS

## OPERATOR'S MANUAL

# BPJ-3

**700 KG**

Belly Pan Jack

**Serial Number:**

Scorpion Jacks International

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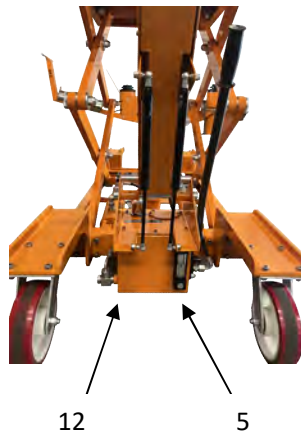
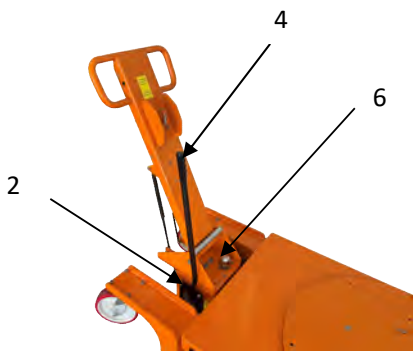
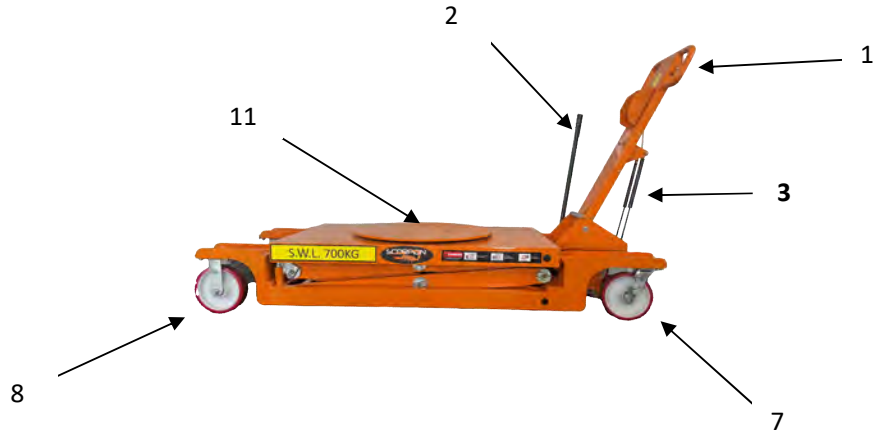
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# BPJ-3



1	Handle
2	Hand Pump / Pump Handle
3	Handle Struts
4	Manual release valve
5	Hydraulic Filler Breather
6	Hydraulic Level Guage
7	Swivel Castors
8	Fixed Castors
9	Lift Cylinders
10	Helper Cylinder
11	Turntable
12	Oil Reservoir

## Description

Manually operated hydraulic handpump (2) is mounted through the side of the hydraulic reservoir (12), which is mounted between the rear swivel castors (7).

When activated using a forward and backward pumping motion, 2 hydraulic lift cylinders (9) and the hydraulic helper cylinder (10) located below the turntable (11) deliver 19,305KPA (2,800 PSI) hydraulic pressure, raising the turntable platform.

Oil from the handpump (2) is delivered to these cylinders and then back to the oil reservoir, following a very basic circuit.

To lower the scissor table, the manual release valve (4), which is located on the handle (1) is turned counter-clockwise. This will lower the load at a steady rate. The helper cylinder (10) is designed to cushion the load should it try to run away as the load nears the bottom of its stroke, but the load descent can also be controlled by gently closing the release valve as required.

This helper cylinder also reduces the effort required to initially lift the table when loaded.

The filler breather (**5**) is located in one corner of Reservoir lid, and is used for topping up the oil reservoir. An Oil level gauge (6) is also fixed to the rear of the reservoir to ensure reservoir is not overfilled during oil fill.

The Belly Pan jack can be moved by pushing or pulling on the handle (1) that also has 2 handle struts (3) to ensure the handle always remains in the up position when not in use.

The Dozer Belly Pan itself is positioned onto the rotating turntable (11) for installation or removal. By having a rotating table, fine adjustment can be obtained during installation.

The Manual Belly Pan jack, BPJ-3 can easily be moved with a 700kg load on a smooth even surface such a concrete floor.

## Adjustments

There are no adjustments to be made on the entry-level BPJ-3. The unit is ready to use on arrival.

## Safe Operating Procedures

- THE BPJ-3 is solely intended for the use of changing Dozer Belly Guard Jacks, and conducting these activities will never exceed a usage of over 700 kg.
- **Any usage outside of that prescribed above will void any warranty or liability issues assignable to Scorpion Jacks International.**
- **Never ride on the jack when it is being moved, as this can cause injury.**
- **Never place any part of your body under the platform when in the raised position, unless the table is being supported by a sling, work stands or a similar device.**

To move this jack:

- Either push or pull on the handle to move the jack forwards or backwards as desired. Pull the handle to the left or right to move it in these directions, much as you would to move a pallet jack.
- Always ensure a clear area around the jack when moving, lifting or lowering.
- Actual procedures for installing or removing belly guards may vary from site to site, so please refer to your relevant site safety procedure before commencing work.

To Raise:

- Ensure the belly guard jack is located directly under the belly guard.
- Ensure the manual release valve is firmly locked in the clockwise position.
- Pump handle backwards and forwards until the table reaches the load.
- When the desired height is reached, simply stop pumping.

To Lower:

- Turn the manual release valve in a counterclockwise direction. The speed of descent can be controlled by how much you choose to open this valve.

### \*CAUTION:

**DO NOT WORK UNDER AN ELEVATED PLATFORM.** In the event of an uncontrolled descent, this would place the worker in danger.



# SERVICE NOTES

## Daily/Weekly:

- Visual Inspection – Check for external oil leaks around the cylinder wiper seals. Check for damaged or leaking hydraulic hoses.
- Lubricate grease nipples on scissor arms
- Check for damage to castors both fixed and swiveling.

## Periodic:

- Replace hydraulic cylinder seal kits (Optional – if the lift cylinders are not leaking externally and holding load during periodic testing, this task may not be required)
- Replace ID Stickers/decals if damaged or faded.
- Lubricate the grease nipple on the turntable bearing

NOTE: A permanent aluminium compliance plate should be visible on the vertical, rear-facing edge of the elevating table. This plate notes the model no, SWL in kg's and serial number. If this is not present, contact Scorpion Jacks for replacement.

## Generally:

- Check the hydraulic oil level in the reservoir periodically. Oil level should be halfway up the sight gauge when unit is fully retracted.

## NOTES:

- The above are suggested frequencies only, and specific on-site requirements or operating conditions may warrant variations on the above frequencies.

## RECOMMENDED ON-SITE SPARE PARTS

### REMOTE MINE SITES

- Lift Cylinder Seal Kits
- Sticker/I.D. Kit
- Fixed and Swivel Casters
- Gas Struts.
- Hydraulic Hoses.
- Grease Nipples

#### **NOTE:**

For specific part numbers see spare parts manuals or request a quote from Scorpion Jacks.

Some items may have recommended replacement timelines – see service notes in operators manuals.

# SCORPION JACKS INTERNATIONAL WARRANTY

Scorpion Jacks International guarantees for 12 months from the date of purchase, to correct by repair or parts replacement, without charge, any defects arising from faulty workmanship or material. A Scorpion Jack subject to claim under this guarantee should be returned as a complete unit to Scorpion Jacks International, 7/66 Pilkington St, Garbutt Qld 4814, Australia.

The Scorpion Jacks International Warranty outlined in the previous paragraph above does not apply...

- To any defect or failure attributable to accident, misuse, abuse, negligence, or any other task, other than the installation and removal of dozer belly guard plates, or non-observance of local regulations on the part of the user.
- If the jack has been serviced by a person not authorised by Scorpion Jacks International to do so, or with non-approved parts.
- To freight costs to and from Scorpion Jacks International.

NOTE: While Scorpion Jacks International believes our Scorpion Jacks are amongst the safest built worldwide, *all normally accepted work and safety practices must be followed.*

