

1 Ton Transmission Jack



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



03693

*FOR HELP OR ADVICE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR,
OR SIP DIRECTLY ON:
TEL: 01509500400
EMAIL: sales@sip-group.com or technical@sip-group.com
www.sip-group.com*

*Please read and fully understand the instructions in this manual
before operation. Keep this manual safe for future reference.*

DECLARATION OF CONFORMITY

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer's authorised representative within the EC
declare that the

1Ton Transmission Jack - SIP Part No. 03693

Conforms to the requirements of the following directive(s), as indicated.

2006/42/EC Machinery Directive

And The Relevant Harmonised Standard/s, Including

EN 1494+A1:2008



Signed:

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 03/05/2016.



PARTS LIST

Ref No.	Description	SIP Part No.	Ref No.	Description	SIP Part No.
60.	Foot pedal	HY01-00801	66.	Washer M12	HY02-00002
61.	Steel ball	HY01-00441	67.	Leg	HY01-00802
62.	Spring	HY01-00442	68.	Castor	HY01-00803
63.	Copper ring	HY01-00443	69.	Lock washer	HY01-00447
64.	Screw	HY01-00444	70.	Pin	HY01-00804
65.	Nut M12	HY01-00087			

CONTENTS

Page No.	Description
4.	Safety Symbols Used Throughout This Manual
4.	Safety instructions
6.	Contents & Accessories
6.	Guarantee
7.	Specifications
8.	Assembly Instructions
10.	Getting to Know Your Transmission Jack
11.	Operating Instructions
12.	Maintenance
15.	Troubleshooting
16.	Exploded Drawing
17.	Parts list
19.	Declaration on conformity

SAFETY SYMBOLS USED THROUGHOUT THIS MANUAL



Danger / Caution: Indicates risk of personal injury and/or the possibility of damage.



Note: Supplementary information.

SAFETY INSTRUCTIONS



IMPORTANT: Please read the following instructions carefully, *failure to do so could lead to serious personal injury and / or damage to the transmission jack.*

IMPORTANT: Please read the following instructions carefully, *failure to do so could lead to serious personal injury and / or damage to the Transmission jack.*

When using your transmission jack, basic safety precautions should always be followed to reduce the risk of personal injury and / or damage to the jack. Read all of these instructions before operating the transmission jack and save this user manual for future reference.

SIP recommends that this transmission jack should *not* be modified or used for any application other than that for which it was designed.

This transmission jack is designed as an aid in the removal and installation of a transmission or a differential as individual components.

If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

KNOW YOUR TRANSMISSION JACK: Read and understand the owner's manual and labels affixed to the jack. Learn its applications and limitations, as well as the potential hazards specific to it.

KEEP CHILDREN AND UNTRAINED PERSONNEL AWAY FROM THE WORK AREA: All visitors should be kept at a safe distance from the work area.

STAY ALERT: Always watch what you are doing and use common sense.

NEVER LEAVE THE TRANSMISSION JACK UNATTENDED: When in use.

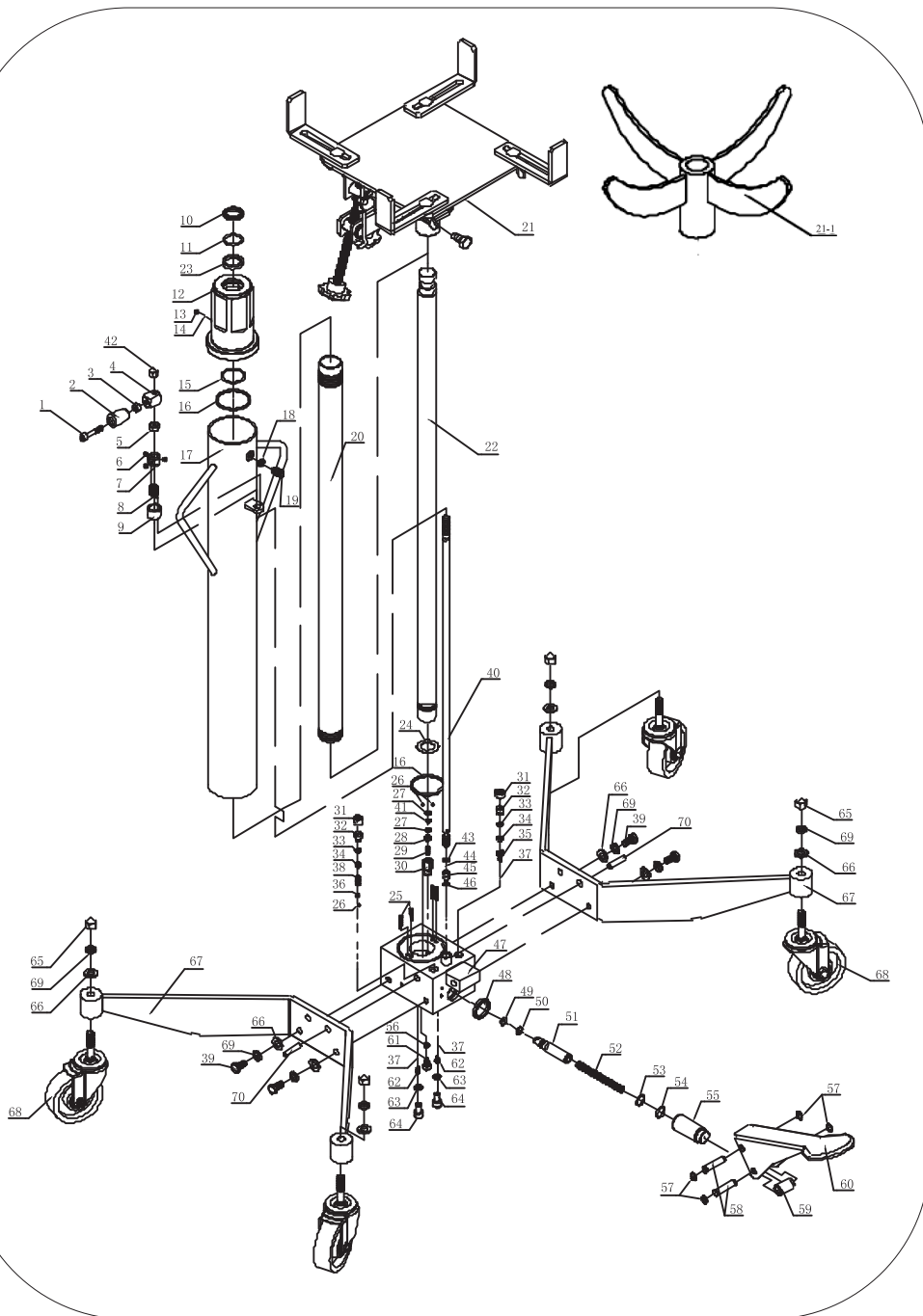
HAVE YOUR TRANSMISSION JACK REPAIRED BY A QUALIFIED PERSON: The transmission jack is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user and void the warranty.

WARNING! Only operate on a level and stable surface and never use on soft ground where the transmission jack is likely to "sink" whilst in operation. Keep the surface clean,

PARTS LIST

Ref No.	Description	SIP Part No.	Ref No.	Description	SIP Part No.
1.	Bolt (M8 x 40)	HY01-00385	30.	Spring	HY01-00411
2.	Release handle	HY01-00386	31.	Screw protector	HY01-00412
3.	Nut M8	HY01-00169	32.	Screw	HY01-00413
4.	Handle base	HY01-00387	33.	O-ring	HY01-00414
5.	Nut M10	HY01-00059	34.	Screw	HY01-00415
6.	Screw (M6 x 6)	HY01-00010	35.	Spring	HY01-00416
7.	Seat for spring	HY01-00388	36.	Base	HY01-00417
8.	Spring	HY01-00389	37.	Steel ball	HY01-00418
9.	Spring sleeve	HY01-00390	38.	Spring	HY01-00419
10.	Dust ring	HY01-00785	39.	Bolt (M12 x 25)	HY01-00323
11.	O-ring	HY01-00786	40.	Connecting rod	HY01-00420
12.	Ram Top	HY01-00787	41.	Pin	HY01-00421
13.	Screw (M6 x 5)	HY01-00394	42.	Nut	HY01-00796
14.	Steel ball	HY01-00395	43.	O-ring	HY01-00423
15.	O-ring	HY01-00788	44.	Steel ball	HY01-00424
16.	Washer	HY01-00789	45.	Release valve base	HY01-00425
17.	Oil barrel	HY01-00790	46.	Washer	HY01-00426
18.	Seal ring	HY01-00399	47.	Pump base	HY01-00797
19.	Air vent screw	HY01-00400	48.	PTFE washer	HY01-00428
20.	Cylinder	HY01-00791	49.	O ring	HY01-00429
21.	Transmission adaptor	03857	50.	PTFE washer	HY01-00430
21-1.	Saddle	HY01-00792	51.	Piston (small)	HY01-00431
22.	Piston	HY01-00793	52.	Spring	HY01-00432
23.	U-ring	HY01-00794	53.	PTFE washer	HY01-00433
24.	Washer	HY01-00795	54.	O-ring	HY01-00434
25.	Filter	HY01-00406	55.	Piston (big)	HY01-00435
26.	Steel ball	HY01-00407	56.	Copper ring	HY01-00798
27.	Hole ring shaft	HY01-00408	57.	Check ring	HY01-00437
28.	Filter	HY01-00409	58.	Pin	HY01-00799
29.	Valve core	HY01-00410	59.	Roller	HY01-00800

EXPLODED DRAWING



SAFETY INSTRUCTIONS...cont

tidy and free from unrelated materials and ensure that there is adequate lighting.
DO NOT dismantle or tamper with the transmission jack, as this may be dangerous and will invalidate the warranty.

WARNING! Do not allow untrained persons to operate the transmission jack and do not operate the transmission when under the influence of drugs or alcohol.

Do not attempt to lift a load greater than that which the jack was designed: The maximum load capacity is 1 ton.

DO NOT use this transmission jack as a vehicle lifting device or as a vehicle support.

INSPECT THE JACK BEFORE EACH USE: DO NOT use with bent, broken, cracked, leaking or other damaged parts; If any suspect parts are noted or the jack has been subjected to a shock load, have the jack checked by a suitably qualified person before resuming operation.

NEVER move this jack with a load any higher off ground than necessary and move it slowly and carefully.

NEVER stand on the transmission jack, or use it as a 'ladder'.

Transfer the load immediately to appropriate support device for service or repair.

Always wear the appropriate safety equipment, such as CE approved safety glasses, during operation.

Keep proper balance and footing, do not overreach and wear non-slip footwear.

Ensure the load is properly and adequately supported before starting repairs.

Centre the load on the saddle and be sure the setup is stable and secure.

Understand the operating environment; Before each use the operator should assess, understand and where possible reduce the specific risks and dangers associated with the operating environment. Bystanders should also be made aware of any risks associated with the operating environment.



Danger: Never lift a load greater than that which the transmission jack was designed (1 Ton), overloading can lead to personal injury or damage to the jack or load.



Caution: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

CONTENTS & ACCESSORIES

Description	Qty.
Main Jack Assembly	1
Leg stands	2
Castors	4
Saddle	1
Transmission Adaptor	1
M12 Dome Nut	4
12mm Washer	8
12mm Spring Washer	8
M12 x 25 Bolt	4



Note: If any of the above are missing or damaged, contact your distributor immediately.

GUARANTEE

This SIP hydraulic transmission jack is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the jack outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs.

This guarantee does not cover consumables such as oil etc.

In the unlikely event of warranty claims, contact your distributor as soon as possible.



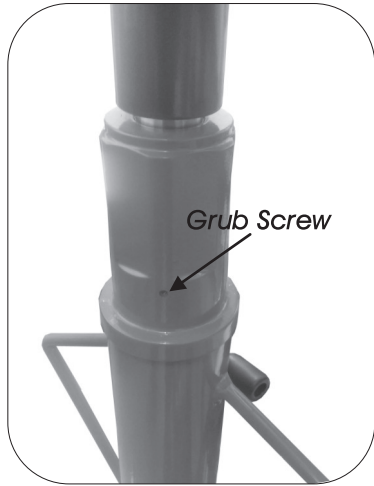
Note: Proof of purchase will be required before any warranty can be honoured.

TROUBLESHOOTING

Symptom	Possible fault	Solution
Can't reach full height	<ul style="list-style-type: none"> Lack of oil Trapped air 	<ul style="list-style-type: none"> Refill with oil Purge system
Won't hold load	<ul style="list-style-type: none"> Low oil level Seal problem 	<ul style="list-style-type: none"> Refill with oil Replace seals
Won't lower completely	<ul style="list-style-type: none"> Trapped air Low oil level 	<ul style="list-style-type: none"> Purge system Refill with oil
Can't lift load	<ul style="list-style-type: none"> Low oil level Trapped air 	<ul style="list-style-type: none"> Refill with oil Purge system
Feels spongy whilst lifting	<ul style="list-style-type: none"> Trapped air Low oil level 	<ul style="list-style-type: none"> Purge system Refill with oil

If none of the above solutions work contact your distributor for repair.

MAINTENANCE....cont



- Loosen the grub screw at the top of the main jack housing (see above).
- Pump the foot pedal until oil is released from the grub screw with no air in it.
- Retighten the grub screw.
- Wipe away any excess oil.
- Lower the transmission jack (see RAISING / LOWERING THE JACK).

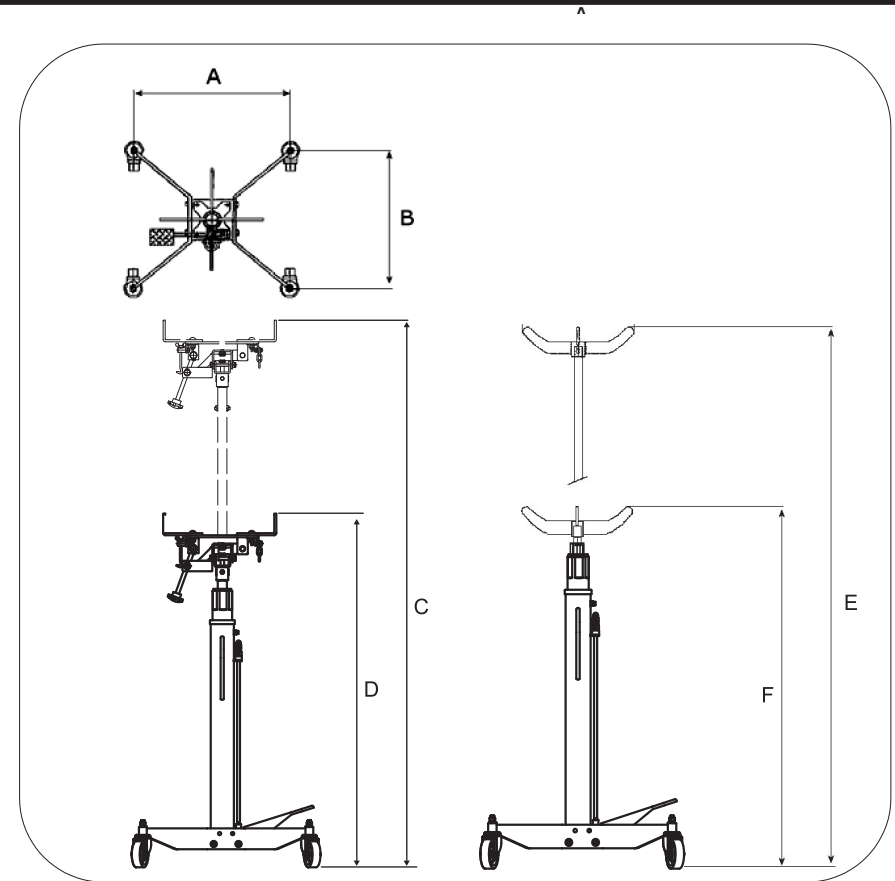


Note: Ensure that a rag or similar are available as oil will be released from the grub screw during this operation..



Caution: safety glasses should be worn during this operation.

SPECIFICATIONS

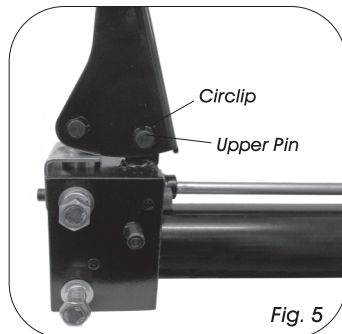
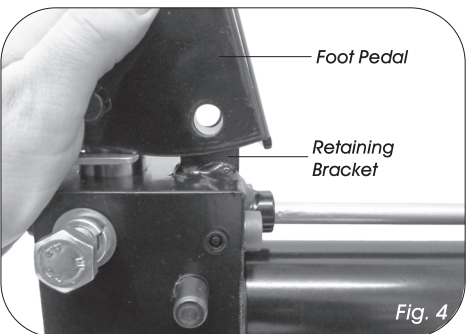
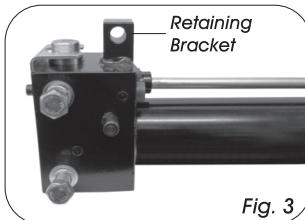
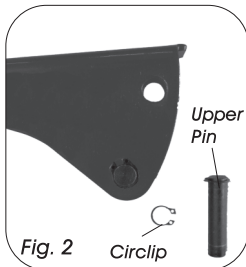
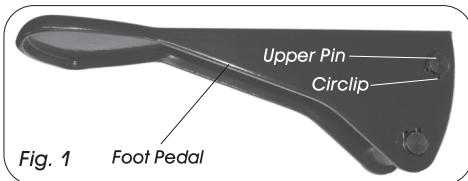


Max. Capacity	1 Ton
Ref.	Dimensions
A.	645 mm
B.	650 mm
C.	2145 mm
D.	1335 mm
E.	2068 mm
F.	1258 mm

ASSEMBLY INSTRUCTIONS

FITTING THE FOOT PEDAL

- Locate the foot pedal from the packaging (Fig. 1).
- Remove the circlip from one side of the upper foot pedal pin and slide the pin from the foot pedal (Fig. 1 & 2).
- Fit the foot pedal in position at the base of the main jack cylinder over the retaining bracket (Fig. 3 & 4).



- Ensure that the hole on the foot pedal and the hole on the retaining bracket line up (Fig. 4).
- Slide the retaining pin through the hole in the foot pedal and the retaining bracket.
- Refit the circlip (Fig. 5).

REMOVING THE TRANSIT BRACKET

- Whilst holding the foot pedal down, remove the 2 x cap head bolts holding the transit bracket in place (Fig.6).
- Slide out the transit bracket to remove it.
- Release the foot pedal to allow the piston to sit in its operating position (Fig. 7).

MAINTENANCE....cont



Warning: Do Not use brake fluid or any other improper fluid and avoid mixing different types of oil when adding hydraulic oil.

To ensure best performance and longer equipment life, completely replace the hydraulic oil at least once a year.

With the jack in its lowest position:

- Remove the oil filler / air vent screw and, lay the jack on its side.
- Drain the oil into a suitable container.



Note: Ensure that no dirt gets into the system.

- Set the jack in its level upright position and fill with approved hydraulic jack oil; The correct level is just below the oil filler / air vent hole.
- Then replace the air vent screw and purge away air from hydraulic system as described in "PRIOR TO FIRST USE" on page 11.



Note: Dispose of hydraulic oil in accordance with local regulations.

When equipment efficiency drops, purge air from hydraulic system as described in "PRIOR TO FIRST USE" on page 11.

It is recommended that an annual inspection be done by qualified technicians. When not in use, store the jack in a dry location with saddle in lowest position.

SECONDARY PURGE

Sometimes the initial purge is not enough to release all of the air from the hydraulic system; If the jack still does not operate efficiently after the initial purge, a secondary purge may be needed.

- Ensure that the oil filler / air vent screw is open.
- Pump the foot pedal until the jack reaches its full height.

OPERATING INSTRUCTIONS...cont

- **SLOWLY** and **CAREFULLY** turn the release valve handle to the right to lower the load to its lowest possible position.



Note: The speed of descent is controlled by the release valve handle; The more the valve is opened the more rapidly the jack descends. Ensure the decent is slow and controlled.



Warning! Dangerous dynamic shock loads are created by opening and closing the release valve handle too quickly when the load is being lowered. The resulting overload may cause hydraulic system failure which could cause property damage and/or severe personal injury.

- If necessary, **CAREFULLY** and **SLOWLY** move the jack.
- Transfer the load immediately to appropriate support device for service or repair.



Note: The oil filler screw must be **open** at all times whilst operating the transmission jack.

MAINTENANCE

Periodically check the piston for signs of rust or corrosion; Clean exposed areas with a clean oiled cloth.

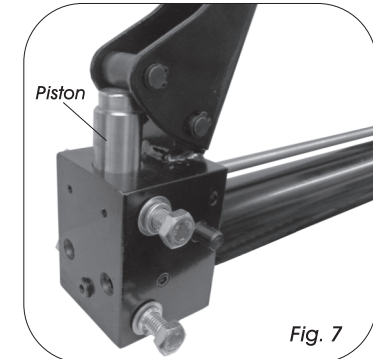
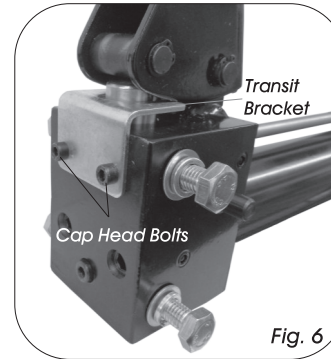


Warning: Never use sandpaper or abrasive material on these surfaces!

A coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and ensure that castors, foot pedal and pump assemblies move freely. Periodically lubricate the pivot points, axles and hinges with a light lubricating oil as needed.

With the jack in its lowest position, remove the air vent screw to check the hydraulic oil level. If it is not adequate, add high quality hydraulic jack oil as necessary. Refit and tighten the air vent screw. Then purge air from hydraulic system as described in "PRIOR TO FIRST USE" on page 11.

ASSEMBLY INSTRUCTIONS...cont

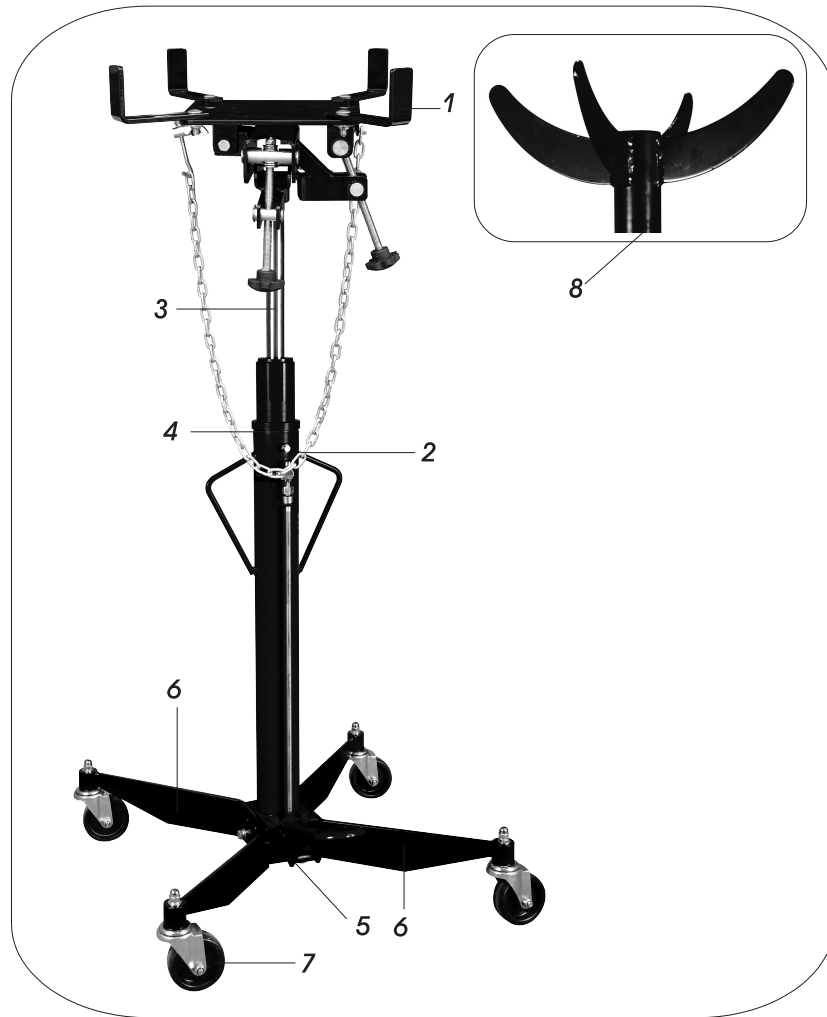


FITTING THE LEGS AND CASTORS

1. Locate the two leg stands.
2. Connect both leg stands to the bottom base using the four M12 x 25 bolts with 4 x 12mm washers and 4 x 12mm spring washers supplied.
3. Fit the four castors to the ends of the leg stands using the M12 domed nuts with 12mm washers & 12mm spring washers supplied.
4. Ensure all bolts and nuts are fully tightened.
5. Slide the saddle or transmission adaptor over the top of the main piston.

On page 10 is a picture of how the transmission jack should look after assembly.

GETTING TO KNOW YOUR TRANSMISSION JACK



1.	Transmission adaptor
2.	Release Valve
3.	Main Ram Piston
4.	Oil Filler / Air Vent Screw
5.	Foot Pedal
6.	Leg Stand
7.	Castor
8.	Saddle

OPERATING INSTRUCTIONS

PRIOR TO FIRST USE

After assembly, leave the jack to stand for one hour to allow the oil to settle before purging the system.



Note: Failure to allow sufficient time for the oil to settle could result in air remaining in the oil. In this event, the jack will not purge completely the first time and a second purge will be required.

Purge the hydraulic circuit to eliminate any air in the system by turning the air vent screw counter clockwise by one turn, turn and hold the release valve handle to the right and then pump the foot pedal 15 to 20 times.

Release the handle.

Keep the air vent screw open at all times whilst operating the transmission jack.

Test the jack, with no load, by raising it to full height and then lowering it (see below).

If the transmission jack does not operate correctly even after purging the system; A secondary purge may be required - See maintenance section.

RAISING / LOWERING THE JACK



Warning! Ensure that you read, understand and apply all safety instructions and warnings before use. Failure to heed these instructions may result in property damage and/or personal injury.



Danger: Never load a weight greater than that which the transmission jack was designed for (1 Ton), overloading can lead to personal injury or damage to the jack.

Before using the transmission jack have a visual inspection to make sure there are no oil leaks or damage etc.

- Roll the transmission jack into position.
- Ensure that the oil filler / air vent screw is open.
- Pump the foot pedal to the desired height.
- Carefully centre the load on the saddle; Ensure the centre of gravity of the load is centred on the saddle and the setup is stable and secure.



Note: Before lowering the load check to ensure all tools and personnel are clear and it is safe to lower the load.