Sykes-Pickavant®

38580070

Heavy Duty Pneumatic Suspension Workstation

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1. USAGE

The 38580070 is a device for assembling and dissasembling the shock absorbers fitted to cars. Any different use is considered improper and dangerous. Sykes-Pickavant will not assume responsibility for possible damage caused by non-compliance with instructions.

2. TECHNICAL DATA

Air Pressure: Min 6 bar Max 10 bar
Power: 10 bar = 2.452 Kg
Cylinder Stroke: 330 mm
Dimensions: 650 x 400 x 1600 cm (assembling)
Machine weight without clamps: 76.0 Kg
Vice Weight: 3.7 Kg

3. INSTRUCTIONS AND WARNINGS

Take particular care and attention when using 38580070, as compressed springs can be potentially dangerous.
Note: This device must always be used with its safety cage gates mounted correctly on the frame and closed.

3.1.1 Safety Measures

When using 38580070 we recommend using the following:
- Safety gloves
- Safety shoes
- Protective glasses
- Instruction Manual

3.1.2 Safety Signs

Before using the device please be aware of the safety signs / warnings. In case of loss, deterioration or illegibility, order new replacement signs from your supplier immediately. Always replace the signs in the same place where they were removed.

4. CARRIAGE - HANDLING & PACKAGING

The machine weighs 72.0Kg. Handle with care as it may be necessary to use a trolley for handling and carriage.
On the package there are arrows indicating how to handle the box. Lay down the package in order to unpack the device.

Carefully remove the metal clips on the box and unpack the device taking care when removing this from the box.

Please be aware that there are device components and accessories in the box. Pay attention not to discard of these.

5. PLACING & INSTALLATION

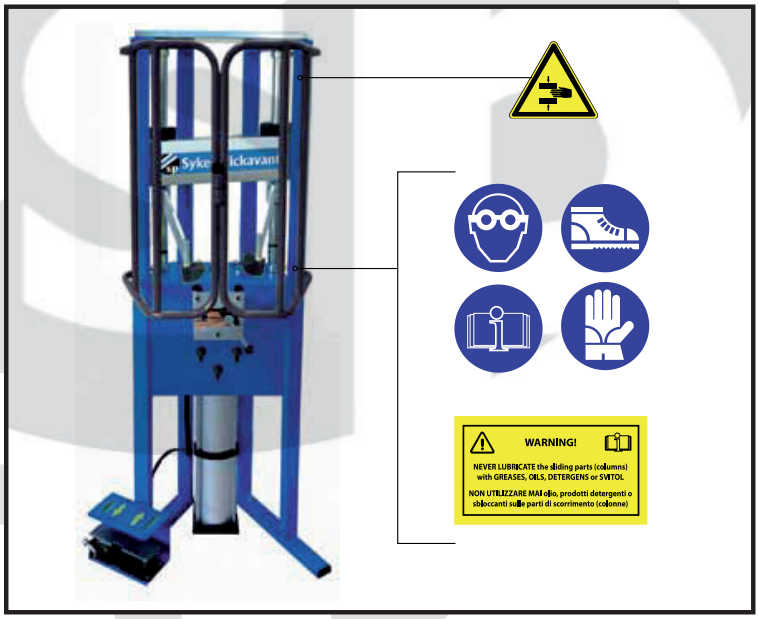
The 385800070 can be placed in any location where it can be safely connected to the compressed air system.
Do not use the device in an are of low light / poor visibility.
The device is recommended to be fixed to the floor.

6. CONNECTIONS

Connect the device to the air compressed system. Recommended air pressure is between 6 and 10 bar. If the pressure supplied is lower, then poor performance may be noticed. The device has been designed only to work with the cage closed, so when using 38580070, always ensure that the safety cage is closed and locked.

7. CONTROLS

Output of compressed air is between 6 and 10 bar. Check that the connection parts and/or the pneumatic devices have no leaks of air (in case of leaks, contact the authorised dealer). Control the functioning of the valve.



8. FUNCTIONING AND USAGE

NEVER LUBRICATE the sliding parts (columns) with GREASE or OILS, BUT ENSURE THEY ARE ALWAYS CLEAN TO MOVE FREELY.

After 60 days or every 200 working cycles remove any gathered dirt and dust from the sliding parts with a dry cloth.

9.1 Disassembling
It is advisable to loosen the nut of the shock absorber cap before using the workstation.

Some automotive manufacturers require the unlocking of the clamp nuts of the caps before dismounting the shock absorbers from the car.

Position the shock absorbers on the lower bracket in the first coil (see fig. 1). Rotate the shock absorber and lock it in the bracket at the end of the coil spring (fig. 2).

Put the small arms near the spring and insert the upper vices in the first coil available (fig. 3).

After locating the correct position of the spring on the vice and after having adjusted the upper vices, block the adjustable arms (fig.4) locking the screws behind the case with the key supplied. Close and lock safety cage.

Compress the spring using the foot control lever only to release the pressure that the spring exerts on the cap.

Do not compress the spring completely.

Remove the blocking cup from the shock absorber unscrewing the nut. Release the compression of the spring and replace the old shaft with the new one.

9.2 Assembling
Carry out component assembly in reverse sequence to disassembly.

Mount the new spring in the compressor in the same position where the old one was. Press the foot control lever in order to make the spring stick to the blocking cap. Lock the spring cap to the strut of the shock absorber using the correct nut/s.
Now the shock absorber is mounted, use the foot control lever to completely release the spring, then move the arms away and remove the complete shock absorber.

10. OPERATION PROBLEMS
Operation - Troubleshooting

The device does not work
Check the connection to the compressed air system. Connect the device to the workshop pneumatic system through the quick connection and check that the safety cage is closed and locked.

The two arms do not run properly along the columns
The two arms may gather dust and become dirty, so clean all the moving parts and the the columns sliding parts with a dry rag whever possible to remove deposits.
Do not lubricate these components - this can attract dust and cause wear issues.

After compressing a spring, the piston shaft does not keep position and goes back up
There could be an air leak in the cylinder. Contact Customer Services to seek advice

11. DEVICE UNUSED FOR A LONG PERIOD
- Disconnect the pneumatic feeding hose.
- Discharge the air inside the cylinder.
- Put pneumatic oil in the cylinder via the connecting nozzle

12. GENERAL MAINTENANCE
Periodically (every 2 months or each 200 working cycles) remove any dirt & dust from the columns.
NEVER LUBRICATE the sliding parts (columns) with GREASES, OILS, DETERGENTS or SVITOL.

13. WORKSTATION SUPPORT
For any other issues such as repair work or sourcing spare parts, please contact Sykes-Pickavant.

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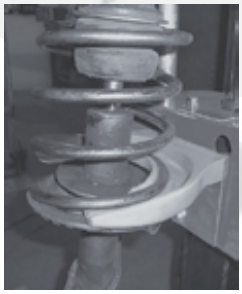

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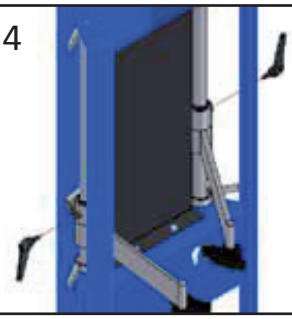

14.1 Disassembling using 38480900 - Vice

It is advisable to loosen the top nuts of shock absorber caps before using the device in order to ease working operations.

Some automotive manufacturers recommend the loosening of the top nut/s before removal of the shock absorber from the car.
Lock the strut in the vice in order to centre it on the machine (fig. 5). Put the small arms near the spring and insert the upper vices in to the first coil available.

After locating the correct position of the spring on the vice and after having adjusted the upper vices, block the adjustable arms (fig.4) locking the screws behind the case with the key supplied. Close and lock safety cage.

Compress the spring using the foot control lever only to release the pressure that the spring exerts on the cap.

Remove the blocking cup from the shock absorber unscrewing the nut. Release the compression of the spring and replace the old shaft with the new one.

14.2 Assembling using 38480900 - Vice

The assembly process is the reverse of the above process. Mount the new spring in the compressor in the same position where the old one was. Press the foot control lever in order to make the spring stick to the blocking cap.
Lock the spring cap to the strut of the shock absorber using the correct nut/s. Close and lock safety cage.

Now the shock absorber is mounted, use the foot control lever to release completely the spring, then move the arms away and remove the complete shock absorber.

14.3 Side Loader / Banana Springs

When working on these type of springs, always turn the springs so the biase of the shape faces away from the operator

15. Lubrication of the device

Always use an air line lubricator with this tool (fig. 6)

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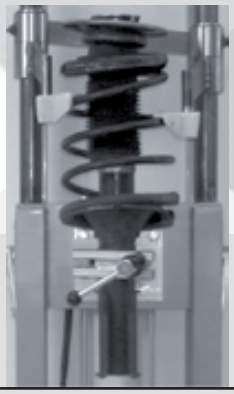

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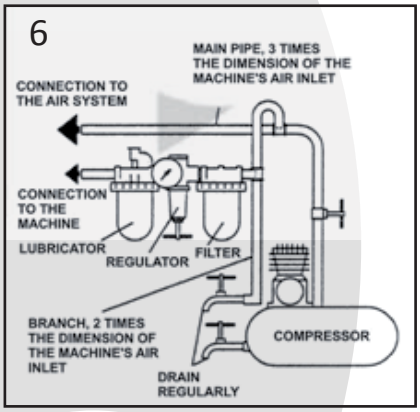
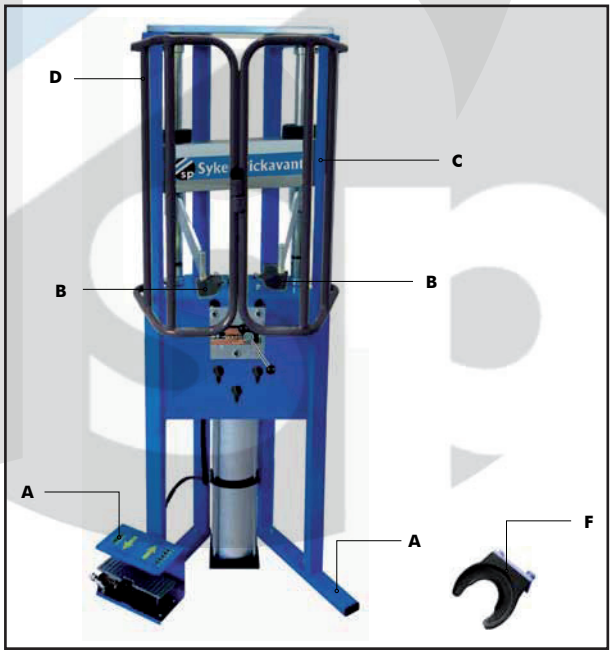


16. GUARANTEE

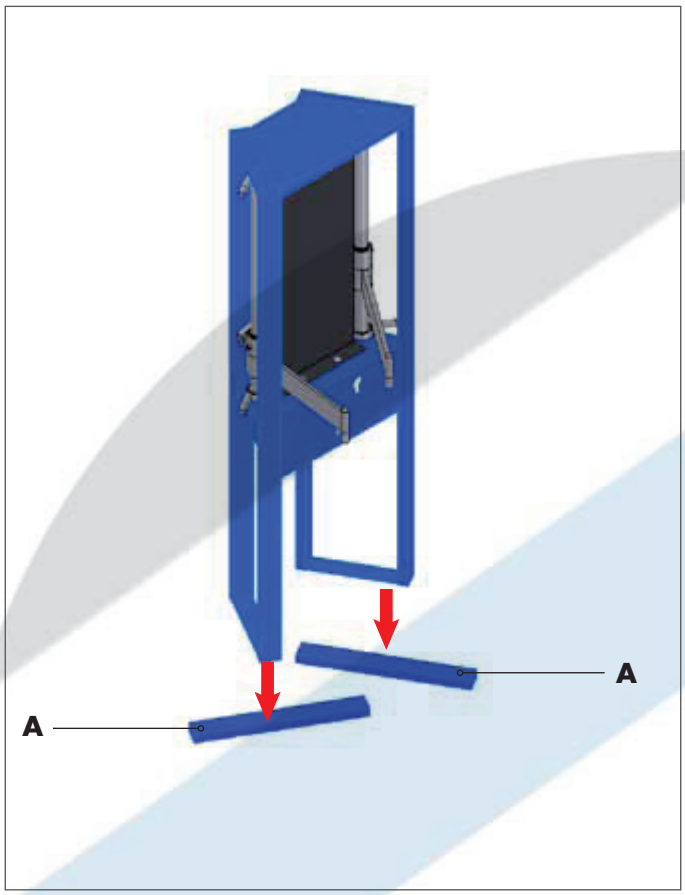
The Mechanical Coil Spring Compressor Workstation - 38580070 is guaranteed for 12 months from the date of purchase against any defect or manufacturing fault. Please contact your distributor / Sykes-Pickavant.
Sykes-Pickavant accessories and wear parts are covered by the legally enforced guarantee.

This guarantee does not cover the following cases: normal wear and tear, non compliance of instructions of use and safety guidelines, non-conventional or abusive use of the tool, tool overloading, lack of servicing or maintenance, intrusion of foreign bodies, tools which have been disassembled or modified, or featuring traces of shock, use with poor quality or non compatible accessories.



17. ASSEMBLY SPECIFICATIONS

- Assemble left and right stands (ref. A) using the screws provided and hexagonal wrench 6mm.
- Assemble the black clamps (ref. B) on their seat on the upper stands using the provided screws and hexagonal wrench 6mm.
- Screw the handles M8 (ref. C) to the bushes of the upper stands.
- Assemble the protection cage (ref. D) inserting the pipes in the holding brackets, then fix them with the 4 screws provided.
- **DO NOT ATTEMPT TO USE THE DEVICE WITHOUT FOLLOWING THE ABOVE**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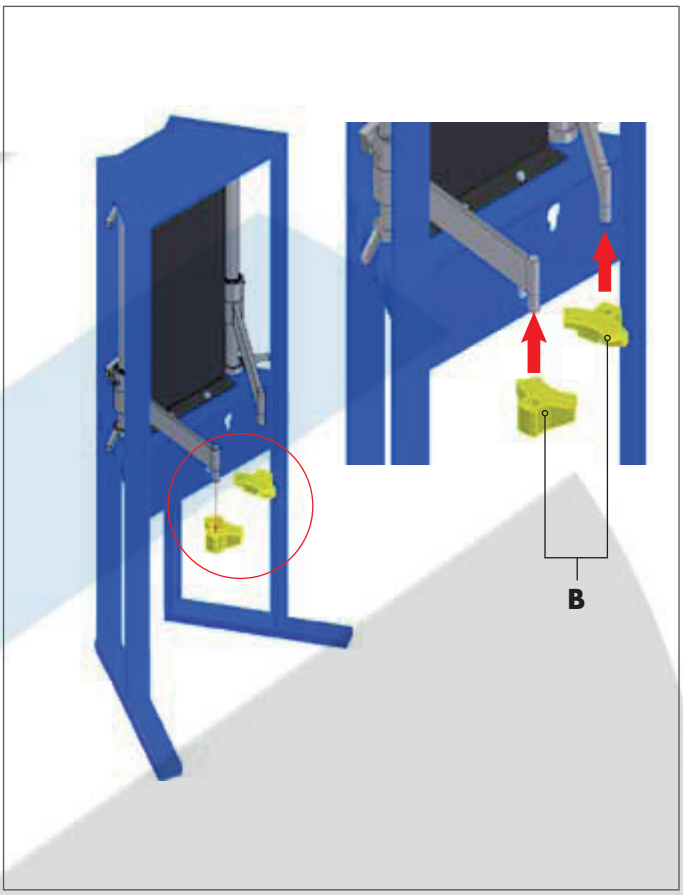
A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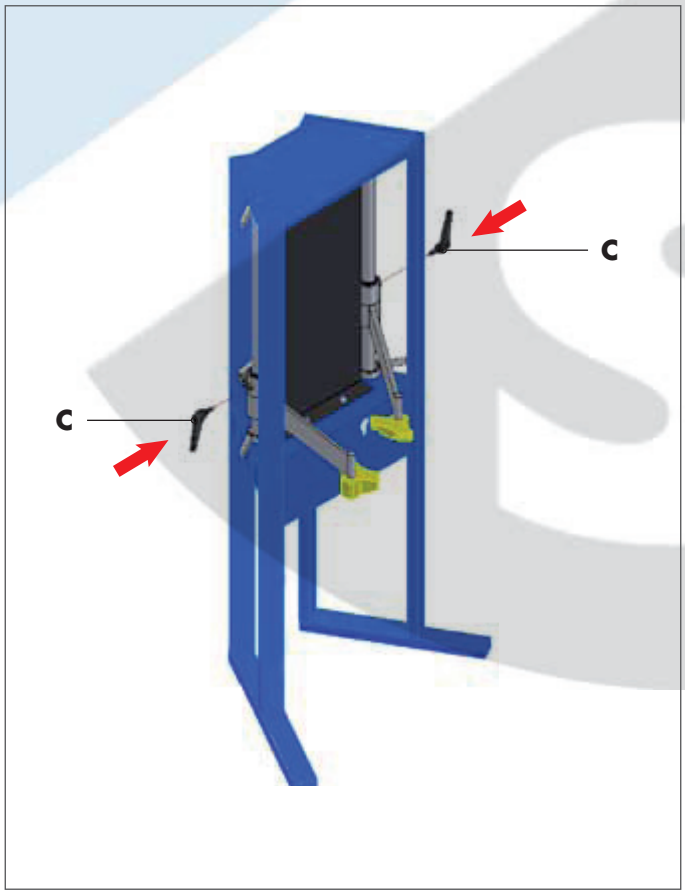
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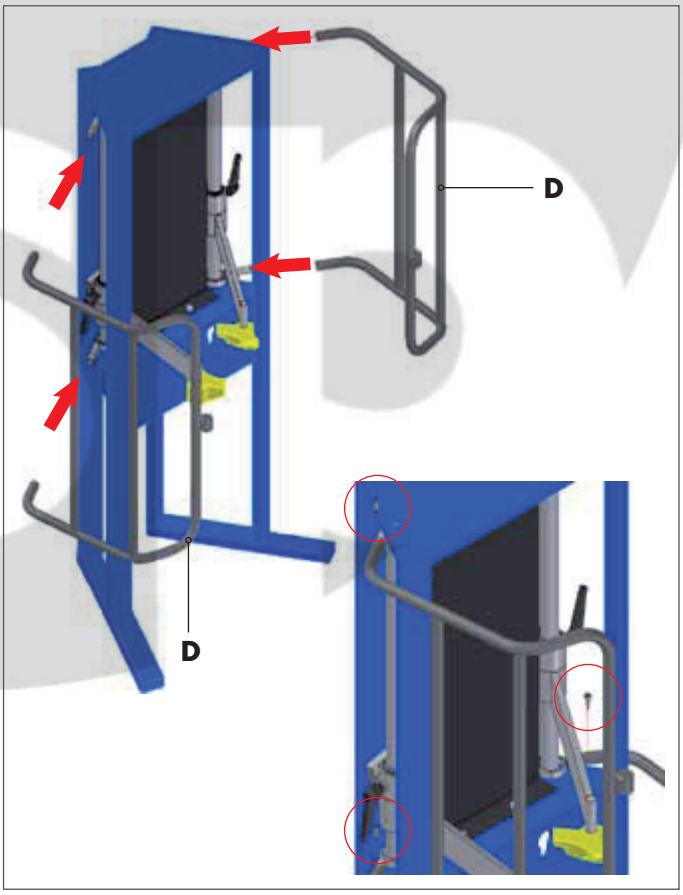
D
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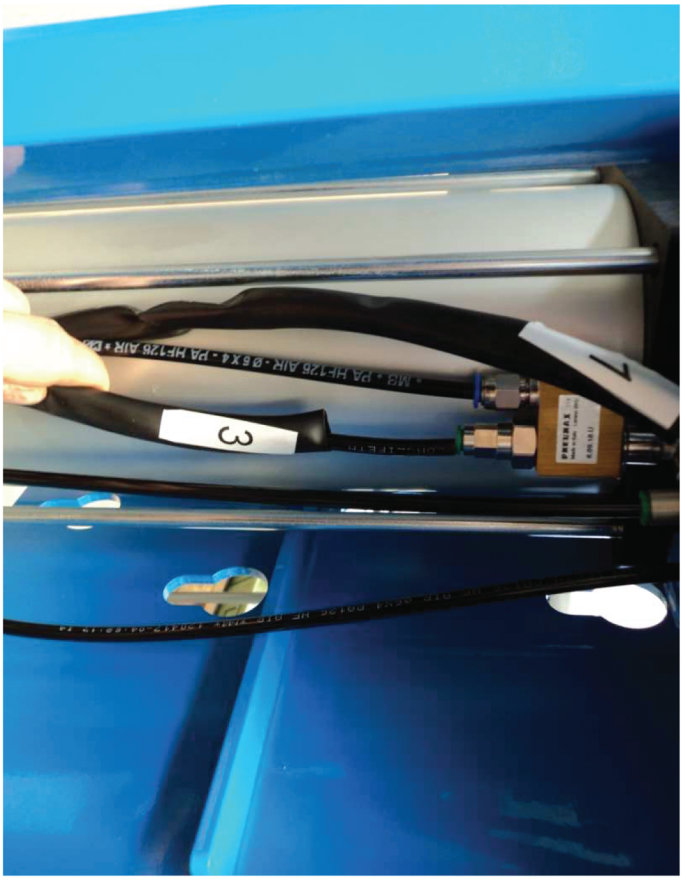
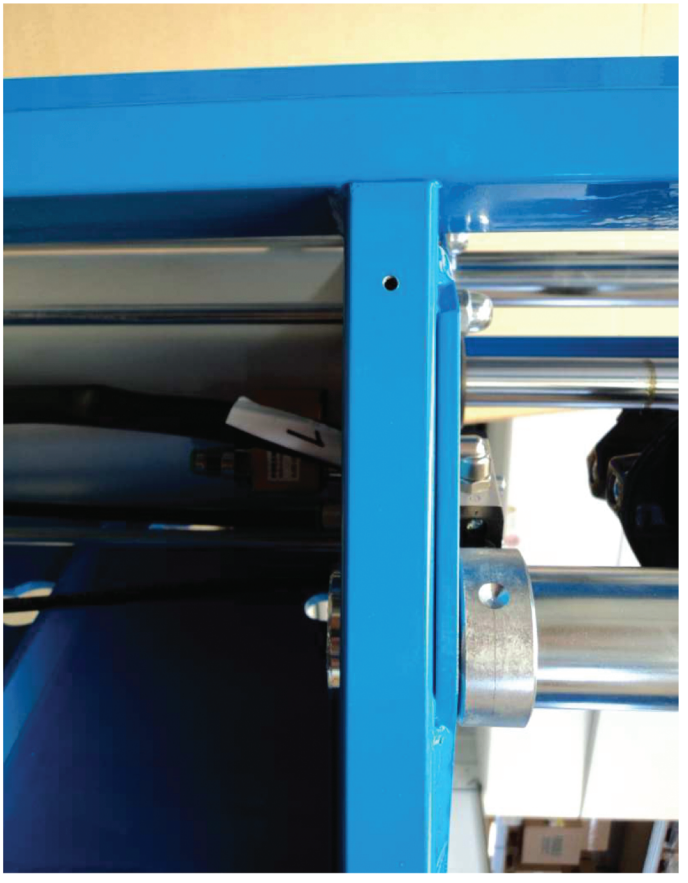
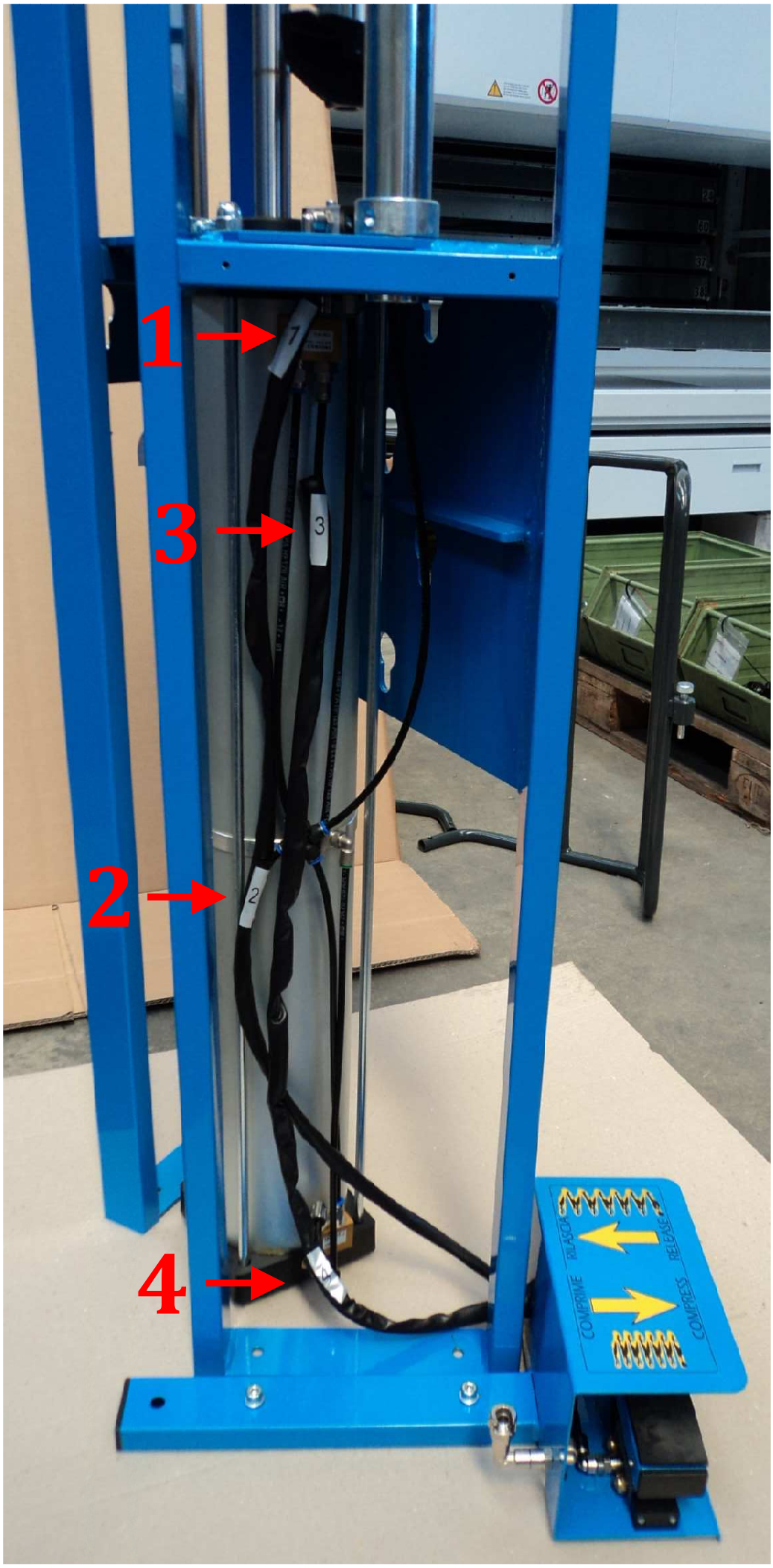
18. AIR SYSTEM CONNECTION

Note: The tubes marked in the photo with numbers 1 and 2 are connected together, as well as the tubes with numbers 3 and 4.

1) Connect tube 1 to the fitting of the ball valve.
2) Connect tube 2 to the cross fitting.
3) Connect tube 3 to the fitting of the upper stop valve of the cylinder.
4) Connect tube 4 to the fitting of the lower stop valve of the cylinder.

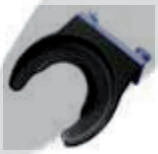





1
3
2
4
COMPRESS RELEASE

ACCESSORIES

Included:

	**38480900**	Vice
	**38480500**	Small clamp (78÷130 mm)
	**38480600**	Large clamp (125÷205 mm)
	**38480700**	Lever M8x20
	**38481000**	Universal upper brakets
	**38480800**	Front SafetyCage

Optional (Not Included):

	**38480200**	Upper brakets suitable for ASIATIC cars
	**38480100**	Upper bracket for MERCEDES models. Medium clamp (105÷182 mm)
	**38480400**	Bracket for models : PORSCHE CAYENNE VW TOUAREG
	**38480300**	Adjustable support for holding the strut of shock absorbers

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DECLARATION OF CONFORMITY
THE UNDERSIGNED

SYKES-PICKAVANT

DECLARES
THAT UNDER ITS SOLE RESPONSIBILITY THE PRODUCT:

MODEL	38580070 HEAVY DUTY PNEUMATIC SUSPENSION WORKSTATION
SERIAL NUMBER	

TO WHICH THIS DECLARATION RELATES IN CONFORMITY WITH THE FOLLOWING STANDARDS AND OTHER NORMATIVE DOCUMENTS:

2006/42/CE (Machine Directive)
Pressure Equipment Directive (97/23/CE - PED)

For the conformity to applicable requirement of the aforesaid directives they have been applied the following technical norms:

EN 12100 Safety of machinery – General principles for design – Risk assessment and risk reduction
EN 983 Safety requirements for fluid power systems and their components - Pneumatics
EN 349 Minimum gaps to avoid crushing of parts of the human body
EN 13857 Safety distances to prevent danger zones being reached by the upper and the lower limbs

Legal person / persons authorised to edit the Technical Binder:

SYKES-PICKAVANT LTD
Unit 4 Cannel Road, Burntwood Business Park
Burntwood, Staffordshire, WS7 3FU, United Kingdom

CE

SIGNED**: BURNTWOOD – MARCH 2012**
(Place and Date of issue)

D.MEKIE
Name and Signature of authorised persons

Ref: EN 17050