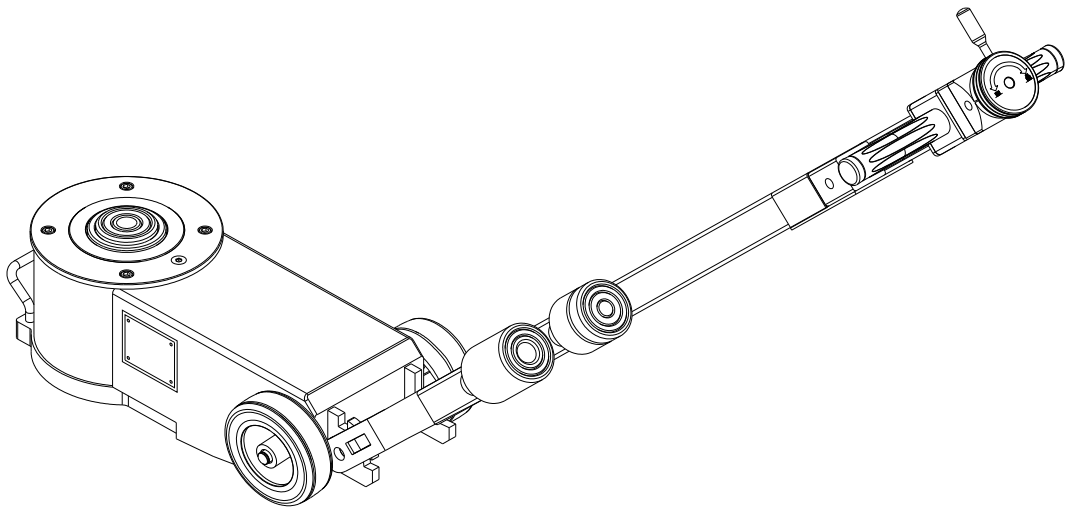


Air-operated Hydraulic Pressure Jack GT-4042 Manual

Min.H.: 150 mm

Stroke : 140 mm



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Please read the warnings and instructions carefully in the present manual since they are concerning the important indications and safety of operation and maintenance. The Manufacturer is in no way responsible for eventual damages to persons, animals or equipments caused by improper, erroneous, incorrect and unreasonable application.

Usage notice.

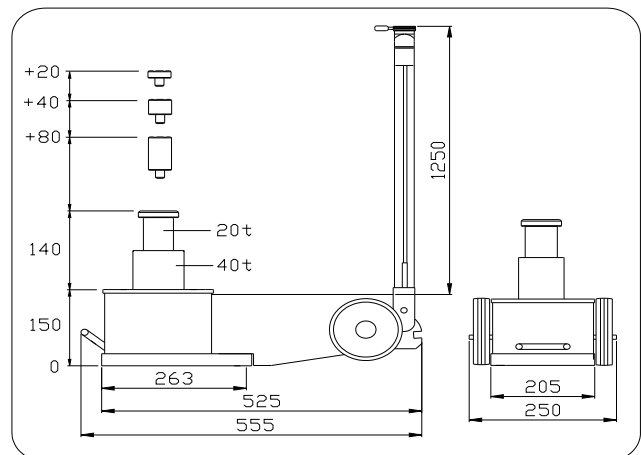
1. Please read the operator’s instruction manual before using this equipment.
2. Instruction book must be read carefully when using air hydraulic Jack.
3. The manufacturer reserves the rights to improve equipment without giving prior notice to buyer in advance.
4. The operator shall read and operate the Jack according to the manual, paying special attention to the safety warnings. Bodily inquiry or death may occur if the safety warnings are ignored.
5. Please do not damage or disassemble the safety valve.
6. please place the air hydraulic Jack in the middle of heavy loading object when using.
7. During and after lifting the vehicle, make sure to properly position jack stands (supports).
8. Please make sure there is plenty of room to operate the Jack according to the manual.
9. When lifting or lowering, please check and make sure no body is under the heavy loading object.
10. When lowering, the operation rod must be kept in the lowest position to avoid damages.

Application:

Air hydraulic jack is a newly-type lifting equipment. It utilizes compressed air to promote booster cylinder, to make the hydraulic oil which is stored in oil tank infuse into oil cylinder to move hydraulic cylinder up & down. It adopts the machinery design combination of hydraulic pressure with great advantages of delicate design, small dimension, convenient moving, wide scope of usage, strong jacking capacity and low lifting part. It is a convenient lifting equipment and low labor intensity of automobile manufacturing, repairing, engineering mechanism or heavy-facility.

Specification & Parameter.

| | |
|------------------|----------|
| Model No. | GT-4042 |
| Jacking Capacity | 40t/20t |
| Air Pressure | 8-12 bar |
| Lowest Height | 150mm |
| Hoisting Height | 140mm |
| Weight | 42 kg |

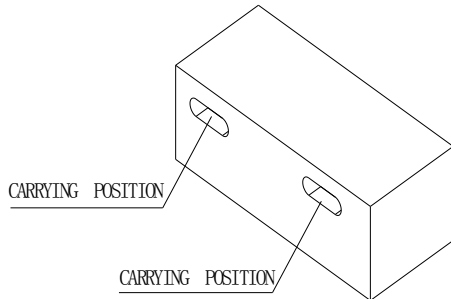


Safety Notice

1. Installation: please insert “A、 B、 C “airpipes into adaptors accordingly. Install the operation rod and main body together with fixed axis of operation rod. Place the retaining ring in good order. Pull the operation rod to three different directions: horizontal direction of operation rod & main body, direction of 45 degrees, and direction of 90 degrees. (As for operation procedure, please see the label of <Air hydraulic Jack installation instruction> which sticks on the operation rod.)
2. Make reasonable choice of clean and dry air pressure (Grease filter must be installed on the air resource), its application scope should be 8-12 bar (The MAX. air pressure of safety valve is 10bar) and within the rated air pressure scope to guarantee life.
3. Connect it with air pipe. (See picture A)
4. Place the air hydraulic jack on a stable, flat, resistant, dry surface without drains or holes when using. If necessary, place a wood board under the air hydraulic jack to avoid any deflection. (Please carefully read the label of <Warnings> which sticks on the operation rod.) .
5. When lifting, place some secured stands or solid supports on the suitable area under raised vehicle to assure security.
6. Before lifting, please estimate the weight of vehicle to avoid overloaded. The life of Jack will be affected strongly if it is overloaded.
7. When lifting, position the equipment under the strongest centre point of the vehicle. Do not position the Jack near or allow it to hit any bolt.
8. When Jack is lifting or lowering, in order to protect the Jack and oil cylinder, Please take hold of the handle of operation rod to use Jack.
9. The air hydraulic jack applies to 32# hydraulic oil. Make sure there is enough filtered & clean hydraulic oil to support the jack, otherwise the jack is unable to reach its rated hoisting height. If it lacks of oil, please screw off the bolt of oil tank’s filling opening and fill suitable amount of oil then screw on.
10. Don’t shake it sharply when using. To move the air hydraulic jack, please keep the wheels balanced with the operation rod in intermediate position.
11. Don’t place the Jack upside down when using.
12. Please keep the equipment cleaned & out of the reach of children when it is not using.
13. It is natural & normal to appear a little bit of oil leaking when transporting, loading and using it in the first time.
14. If oil volume is too much, the oil will be exhausted by the way of fog through suction pump. After the extra oil exhausted and this appearance will disappear.
15. If the oil is overfilled, pls use the available way to make it less to return to normal volume.

Transport:

The Jack should be packed in carton. Please see the carrying position as below picture:.



Notice:

1. Carry the Jack with hands in the (carrying position), see picture in left side.
2. If necessary, please use the transporting tools to move the Jack so that will not be damaged.
3. Please operate it according to the relative warning indication which sticks on carton.
4. The user can move the equipment to any places with the help of operation rod and wheels.

Installation, operation and maintenance.

1. Equipment installation, when Disassemble, please see (picture A/B/C/D/E/F).
2. Air hydraulic Jack operation
 - a. Operate the handle of hand valve clockwise to carry out lifting. When the Jack lifts to the rated height then it will stop lifting automatically by itself with the limitation system.
 - b. Operate the handle of hand valve anticlockwise to carry out moving down. The Jack moves down automatically by itself with reasonable design principle of air structure.
3. Jack maintenance
 - a. Add lubricating oil regularly on the air inlet every 15 days once time, the lubricating oil volume is 5mL each time.
 - b. Do not use the jack in a sloped area or in bad conditions.
 - d. Check the oil tank to make sure whether there is enough hydraulic oil or not. Every 30 days once time. If it is needed to add oil, pls make sure the new filled oil is compatible with the original old oil, otherwise it will damage the hardness of machine.
 - c. Keep it clean daily after using, especially the outer of oil cylinder.

Warning:

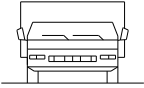


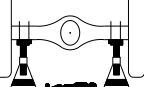


1. Air hydraulic jack is just only a lifting tool when using. It can not be used as a supporting tool. Without any secured stands or solid supports on the suitable area under raised vehicle to assure security, any operators are strictly prohibited to work after the equipment moved up. (Please carefully read the label of <Warnings> which sticks to the operation rod).
2. Use the Air hydraulic jack on a flat and resistant surface away from drains and holes. It is not allowed to use it on a slope floor to avoid lifting objects moving or slipping, especially those vehicle. Make sure to place some supports under the wheel to avoid slip then the Jack can be moved up or down. (Please carefully read the label of <Warnings> which sticks to the operation rod).
3. Always respect production requirement and use the Jack within the scope of jacking capacity. Don't be against the operation instruction to use it with overload.
4. Use clean and dry air pressure. its application scope should be 8-12 bar and at the same time to apply

the filtered & clean 32# hydraulic oil. (The MAX. air pressure of safety valve is 10 bar)

ttachment:

1. The extension rod is packed in another small carton and put together with the Jack body. Please take them out and put into the places of operation rod of where it should be.
2. The operation rod is packed in another carton. Please take it out and install it in the Jack body according to the installation indication of operation rod.

Safty warnings.

| | |
|---|---|
|  | <p>Air hydraulic Jack should be used in the flat floor. Don't use it in slope or inclined floor.</p> |
|  | <p>Don't use it in slope or inclined floor.</p> |
|  | <p>When lifting, please support the landed wheels by some objects to avoid the vehicle moving after lifting.</p> |
|  | <p>Air hydraulic jack is just only a lifting tool when using. It can not be used as a supporting tool. It should be used with some secured stands or solid supports together.</p> |
|  | <p>When lifting, please make sure the extension rod should be straight head on the heavy loading object.</p> |
|  | <p>It should not be head on the single side or other sizes which is far away from the heavy loading object.</p> |

The Way of Troubleshooting.

| Condition | Possible reason | Troubleshooting |
|---|---|---|
| Gas-leak under the host | Connector or air pipe doesn't connect in a right way, or air pipe is broken. | Connect again or replace the air pipe or connector after checking. |
| Gas-leak on oil cylinder | Dustband or sealing and cylinder are broken | Check and replace the dustband or sealing or spare parts. |
| A little bit of oil leak | Oil runs into air pipe during the course of transporting. | It is unnecessary to repair if it works in good order |
| A great deal of oil leak | <ol style="list-style-type: none"> 1. The equipment started under the condition of turnover. 2. Connector of oil inlet or sealing of oil cylinder is broken. 3. Inside wall of cylinder is broken | <ol style="list-style-type: none"> 1. Starting the equipment under the condition of turnover is strictly prohibited. If it is not in this condition, check and make sure whether there is enough oil in oil tank or not, if not, it should add more. 2. Check and replace spare parts. 3. Check and repair cylinder. |
| Booster pump does not work | <ol style="list-style-type: none"> 1. One-way valve or spring is broken. (see picture B) 2. Booster piston or booster cylinder is broken 3. Air pressure is not enough, air pipe removed or air inlet is plugged up. | <ol style="list-style-type: none"> 1. Check and replace the spare part. 2. Check and repair, replace the spare part if necessary. 3. Check the air pressure whether is within 8-12bar and the air way is broken or not. |
| Booster pump works in good order but cylinder does not move up. | <ol style="list-style-type: none"> 1. Lack of oil. 2. The steel ball of one-way valve is plugged up. 3. Oil Cylinder is broken. | <ol style="list-style-type: none"> 1. Fill it with hydraulic oil. 2. Take the connector of oil inlet apart and take out the one-way valve and spring to clean it. 3. Check and repair cylinder. |
| It works with off load but it does not move up or move up slowly with heavy load. | <ol style="list-style-type: none"> 1. Air pressure is not enough, air pipe removed or air inlet is plug up. 2. one-way valve is plugged up. 3. Hydraulic oil became thick | <ol style="list-style-type: none"> 1. Check the air pressure whether is within 8-12bar and the air way is broken or not. 2. Check and Take every one-way valve apart and clean them. 3. Replace the hydraulic oil. |

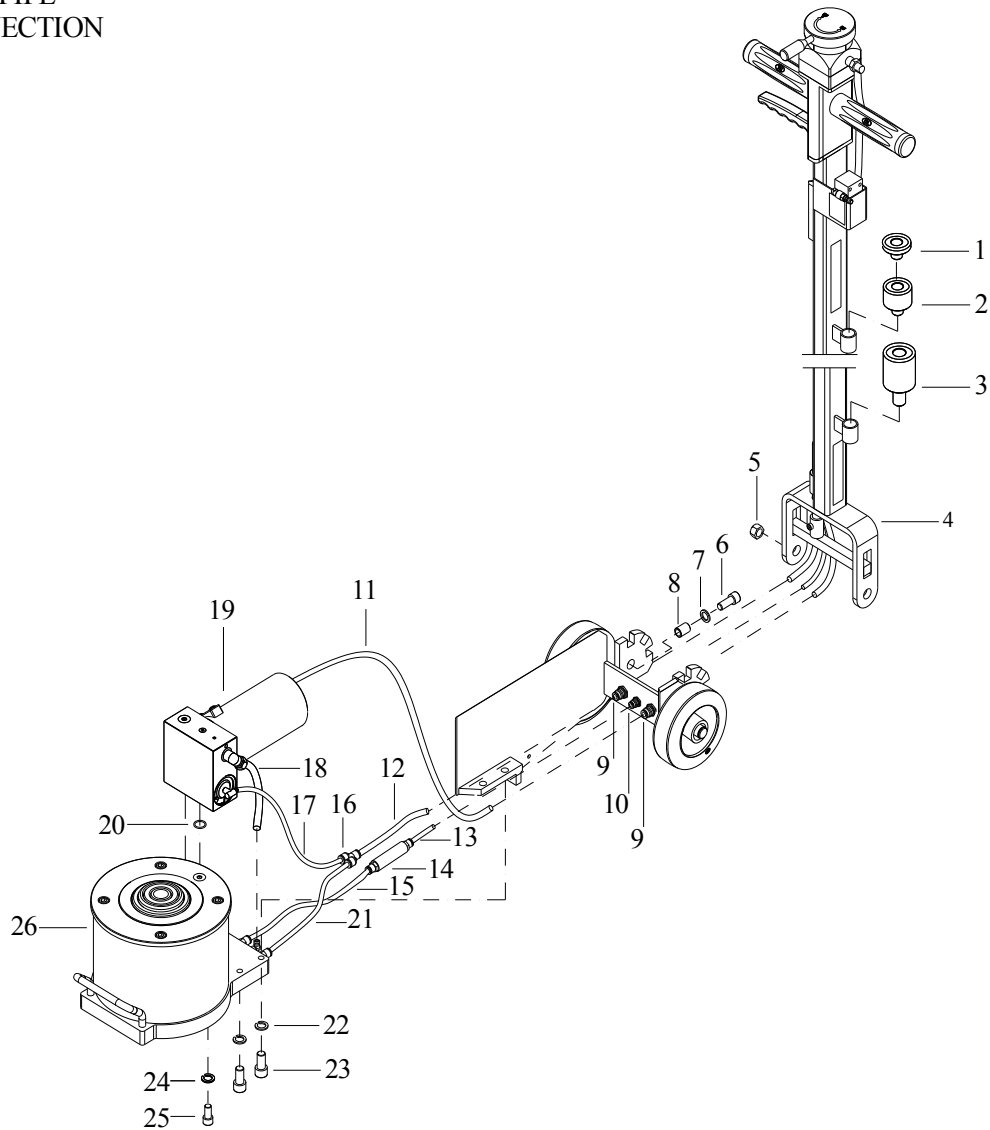
Bitte lesen Sie die Warnhinweise und Anweisungen in diesem Handbuch sorgfältig durch, da es sich dabei um wichtige Hinweise auf Betrieb und Wartung und die dabei zu beachtende Sicherheit handelt. Der Hersteller übernimmt keinerlei Haftung für Schäden an Personen, Tieren oder Ausrüstungsteilen, die durch unsachgemäßen, fehlerhaften, inkorrekten und fahrlässigen Gebrauch verursacht werden.

Hinweise für den Einsatz:

1. Bitte lesen Sie die Anleitung sorgfältig durch, um die Sicherheitshinweise besser verstehen zu können.
2. Vor dem Einsatz des lufthydraulischen Wagenhebers muss das Anleitungsbuch gründlich gelesen werden.
3. Der Hersteller ist berechtigt, den in der Betriebsanleitung beschriebenen lufthydraulischen Wagenheber ohne vorherige Mitteilung oder Ankündigung zu verbessern oder zu ergänzen, wobei dies nicht zum Gegenstand von Gerichts- oder Sachverständigenverfahren gemacht werden kann.
4. Damit der Anwender den Wagenheber in angemessener Weise nutzen und Schäden vermeiden kann, muss er die Anweisungen in der Betriebsanleitung und die Sicherheitshinweise beachten. Das Ignorieren der Sicherheitshinweise kann zu Verletzungen und manchmal zu lebensbedrohlichen oder tödlichen Personenschäden führen.
5. Bitte beschädigen Sie das Sicherheitsventil nicht und entfernen Sie es nicht von der Ausrüstung.
6. Bitte setzen Sie den lufthydraulischen Wagenheber beim Einsatz mittig unter das Schwerlastobjekt.
7. Bitte stellen Sie sicher, nach dem Anheben das Stützgestell unter Schwerlastobjekt zu setzen.
8. Bitte stellen Sie vor dem Anheben zwei Keile an die Räder, um deren Bewegung zu blockieren und stellen Sie sicher, dass sich der Wagen nicht bewegt. Bitte verwenden Sie den Wagenheber nicht in beengten Bereichen, da dadurch die Last herabfallen kann.
9. Vergewissern Sie sich beim Anheben oder Absenken, dass sich keine Personen unter dem Schwerlastobjekt befinden.
10. Bitte stellen Sie die Bedienungsstange beim Absenken in die aufrechte Position, um Schäden am Wagenheber zu vermeiden.

Anwendung: Bei dem lufthydraulischen Wagenheber handelt es sich um eine Hebevorrichtung neuerer Art. Er verwendet Druckluft zum Vortrieb des Drucküberträgers (Booster- oder Hilfszylinder), damit das in einem Öltank befindliche Hydrauliköl in den Ölzyylinder eintritt und den Hydraulikstempel dadurch auf und ab bewegt. Er vereint das Maschinendesign für die Druckhydraulik mit großen Nutzensvorteilen: filigrane Konstruktion, kleine Abmessungen, einfache Verfahrbarkeit, breiter Anwendungsbereich, kräftiges Hubvermögen und niedrige Hubeinheit. Er ist eine bequeme Hebevorrichtung zum Anheben ohne starke körperliche Anstrengung für die Automobilindustrie, Reparatur- und Ingenieurtechnik oder Schwerlastumschlageinrichtungen.

WINDPIPE
CONNECTION

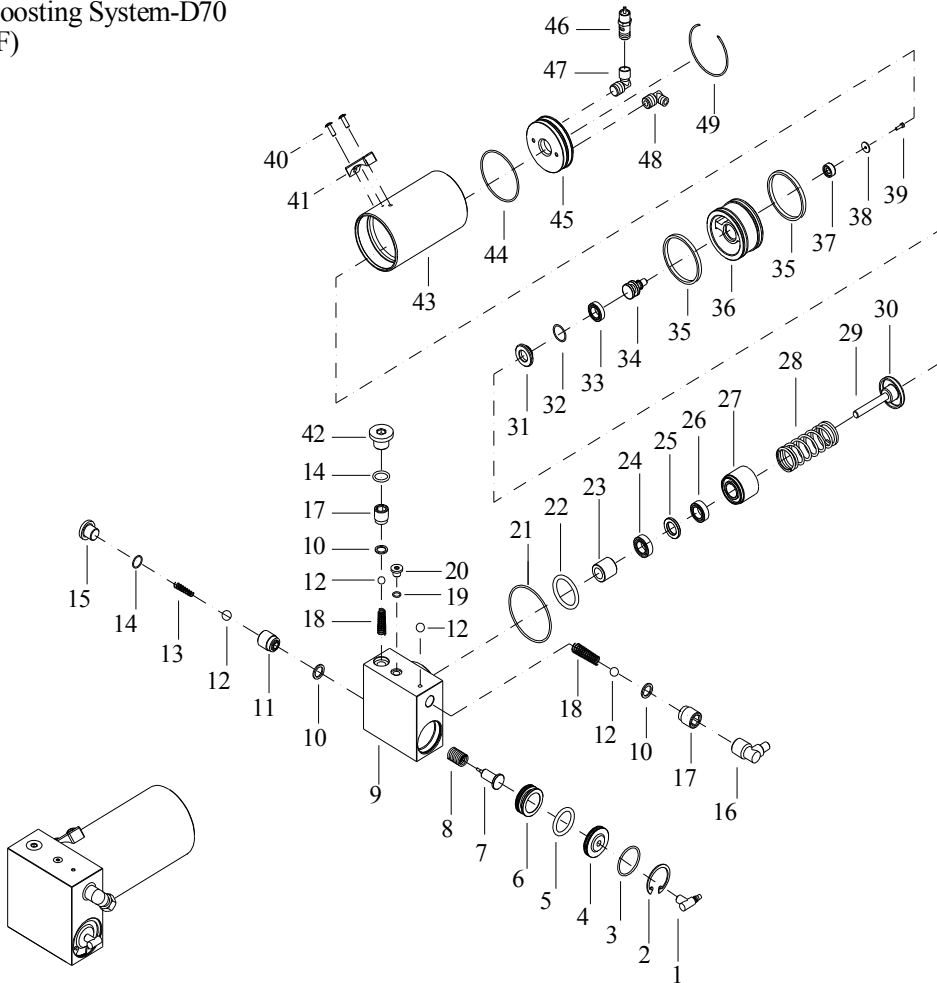


| Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY |
|------|--------|---------------------|-----|------|-----|-------------------------|-----|------|--------|----------------------|-----|
| 1 | 02001 | Extension Rod 20mm | 1 | 10 | Z24 | Adaptor | 1 | 19 | D70F | Boosting System-D70 | 1 |
| 2 | 02003 | Extension Rod 40mm | 1 | 11 | Q1 | Windpipe | 1 | 20 | M7 | O Ring | 1 |
| 3 | 02004 | Extension Rod 80mm | 1 | 12 | Q18 | Windpipe | 1 | 21 | Q16 | Windpipe | 1 |
| 4 | FG1250 | Operation Rod(FL) | 1 | 13 | Q17 | Windpipe | 1 | 22 | J6 | M10 Spring Gasket | 4 |
| 5 | J26 | M10 Bolt | 2 | 14 | TV5 | Oil mist resistance pot | 1 | 23 | J4 | M10 Screw | 4 |
| 6 | J24 | M10 Gasket | 2 | 15 | Q14 | Windpipe | 1 | 24 | J5 | M8 Spring Gasket | 4 |
| 7 | J25 | M10 Gasket | 2 | 16 | Z22 | Adaptor | 1 | 25 | J3 | M8 Screw | 4 |
| 8 | FG2 | Screw thread insert | 2 | 17 | Q15 | Windpipe | 1 | 26 | 4042-1 | Oil Cylinder(4042-1) | 1 |
| 9 | Z25 | Adaptor | 2 | 18 | Q19 | Windpipe | 1 | | | | |

GT-4042 EXPLODED VIEW

Picture A

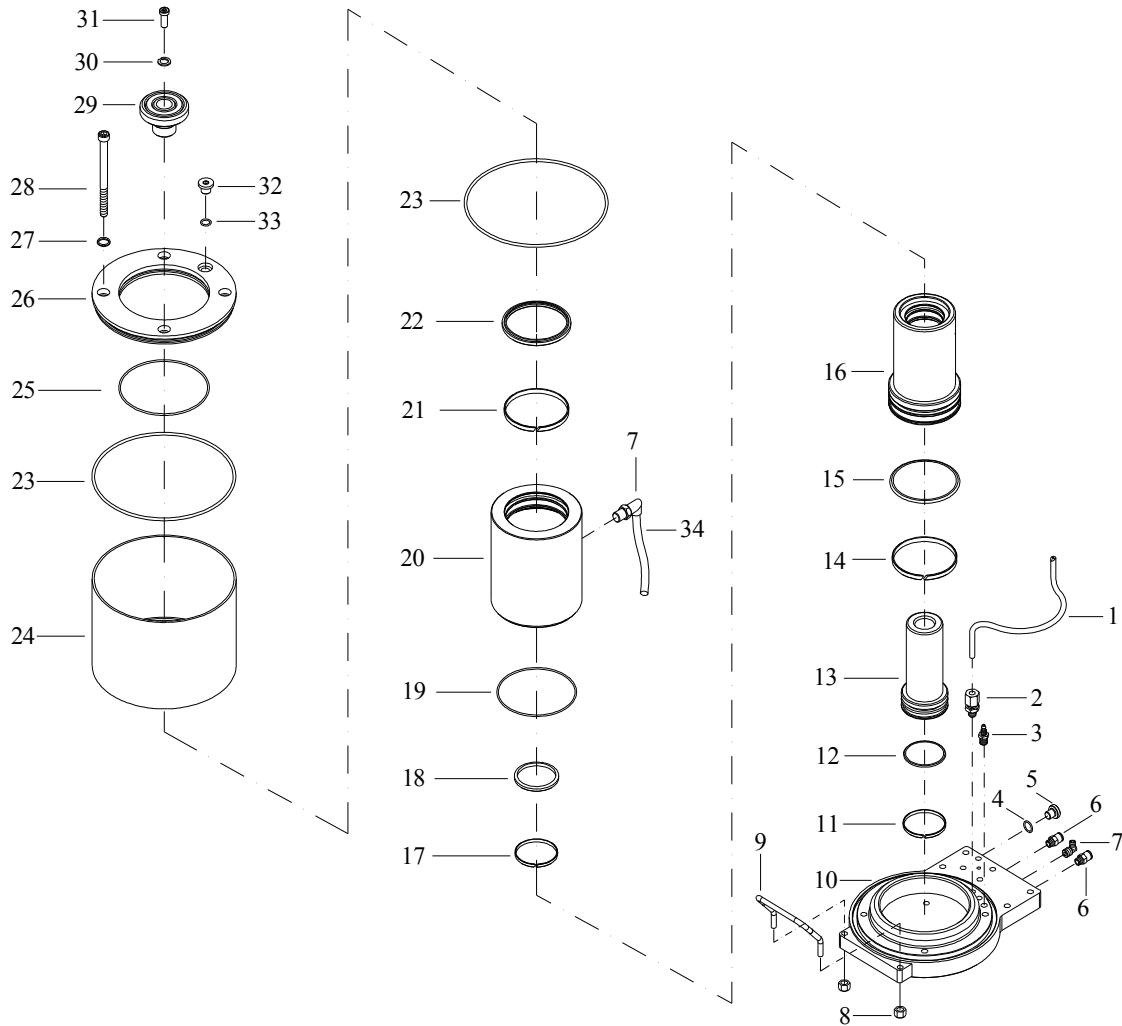
Boosting System-D70
(F)



| Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY |
|------|-----|------------------------|-----|------|-----|----------------|-----|------|-----|--------------------|-----|
| 1 | Z10 | Adaptor | 1 | 18 | W11 | Spring | 2 | 35 | HS2 | Gly Ring | 2 |
| 2 | W14 | Retaining Ring | 1 | 19 | M9 | O Ring | 1 | 36 | 702 | Piston | 1 |
| 3 | M4 | O Ring | 1 | 20 | W6 | Screw-plug | 1 | 37 | M12 | Sealing Gasket | 1 |
| 4 | 813 | Piston Cover | 1 | 21 | M16 | O Ring | 1 | 38 | W2 | Strengthened Piece | 1 |
| 5 | M5 | O Ring | 1 | 22 | M6 | O Ring | 1 | 39 | J1 | Screw | 1 |
| 6 | 808 | Fuel Return Piston | 1 | 23 | 706 | Shaft Sleeve | 1 | 40 | J2 | Screw | 2 |
| 7 | 812 | Fuel Return Thimble | 1 | 24 | M14 | IDI-9*19*8 | 1 | 41 | W15 | Vent Cover | 1 |
| 8 | W9 | Fuel Return Spring | 1 | 25 | 705 | Pump Gasket | 1 | 42 | W7 | Screw-plug | 1 |
| 9 | 707 | Hydraulic Intergration | 1 | 26 | M15 | IDI-9*17*5 | 1 | 43 | 701 | Boosting cylinder | 1 |
| 10 | W3 | Gasket | 3 | 27 | 704 | Hydraulic Pump | 1 | 44 | M18 | O Ring | 1 |
| 11 | 814 | Screw-plug | 1 | 28 | W49 | Spring | 1 | 45 | 711 | Cover | 1 |
| 12 | W13 | Steel Ball | 4 | 29 | W16 | Piston rod | 1 | 46 | Z5 | Safe Valve | 1 |
| 13 | W10 | Spring | 1 | 30 | 703 | Cover | 1 | 47 | Z4 | Adaptor | 1 |
| 14 | M8 | O Ring | 2 | 31 | 710 | Cover | 1 | 48 | Z1 | Adaptor | 1 |
| 15 | W5 | Screw-plug | 1 | 32 | M17 | O Ring | 1 | 49 | W17 | Retaining Ring | 1 |
| 16 | Z23 | Adaptor | 1 | 33 | M19 | Sealing kit | 1 | | | | |
| 17 | 815 | Screw-plug | 2 | 34 | 709 | Piston | 1 | | | | |

Boosting System Drawings
Picture B

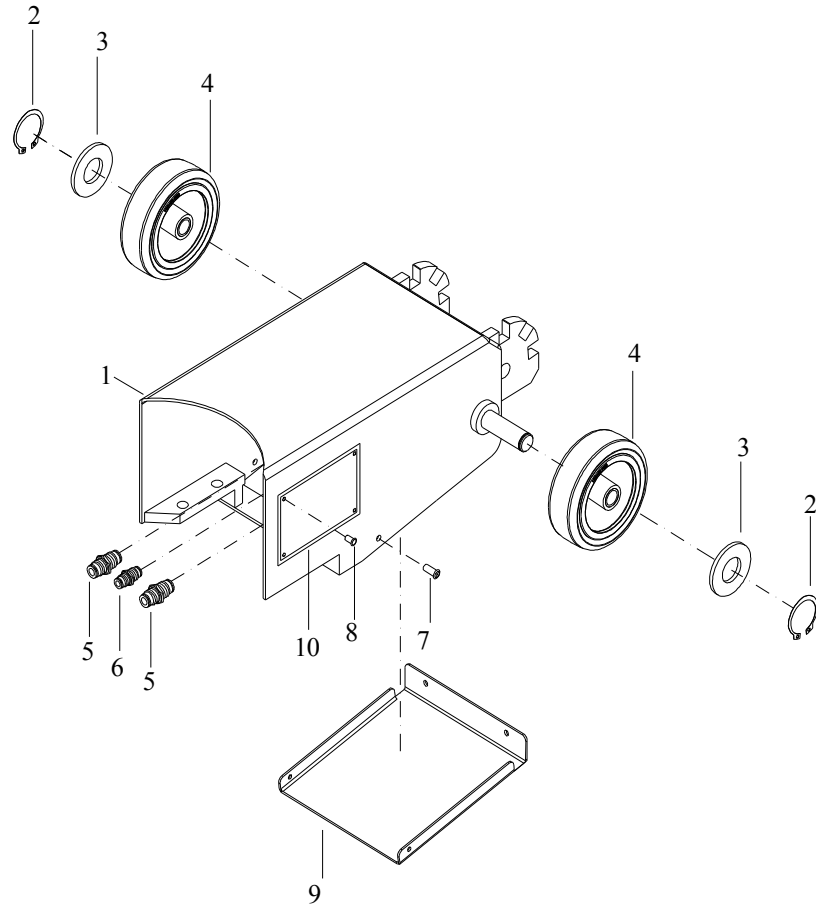
Oil Cylinder(4042-1)



| Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY |
|------|------|-------------------|-----|------|------|-------------------|-----|------|------|---------------------|-----|
| 1 | F014 | Tube for Oil Tank | 1 | 13 | F012 | 20FL Piston | 1 | 25 | M26 | O Ring | 1 |
| 2 | Z20 | Adaptor | 1 | 14 | ZS8 | 40FL Wearing Ring | 1 | 26 | F006 | Cover of Oil Tank | 1 |
| 3 | Z19 | Adaptor | 1 | 15 | HS6 | Glyd Ring | 1 | 27 | W42 | Gasket | 4 |
| 4 | M9 | O Ring | 1 | 16 | F011 | 20FL Oil Cylinder | 1 | 28 | J27 | Screw | 4 |
| 5 | W6 | Screw-plug | 1 | 17 | ZG7 | 20FL Wearing Ring | 1 | 29 | V005 | Short Extension Rod | 1 |
| 6 | Z21 | Adaptor | 2 | 18 | H55 | Dustband | 1 | 30 | J5 | M8 Spring Gasket | 1 |
| 7 | Z1 | Adaptor | 2 | 19 | M24 | O Ring | 1 | 31 | J7 | Screw | 1 |
| 8 | J19 | M8 Bolt | 2 | 20 | F010 | 40FL Oil Cylinder | 1 | 32 | W5 | Screw-plug | 1 |
| 9 | W43 | Handle FLS | 1 | 21 | ZG8 | 40FL Wearing Ring | 1 | 33 | M8 | O Ring | 1 |
| 10 | F004 | 40FL Bottom | 1 | 22 | H90 | Dustband | 1 | 34 | Q13 | Windpipe | 1 |
| 11 | ZS7 | 20FL Wearing Ring | 1 | 23 | M25 | O Ring | 2 | | | | |
| 12 | HS7 | Glyd Ring | 1 | 24 | F013 | Oil Tank | 1 | | | | |

Oil Cylinder Drawings
Picture C

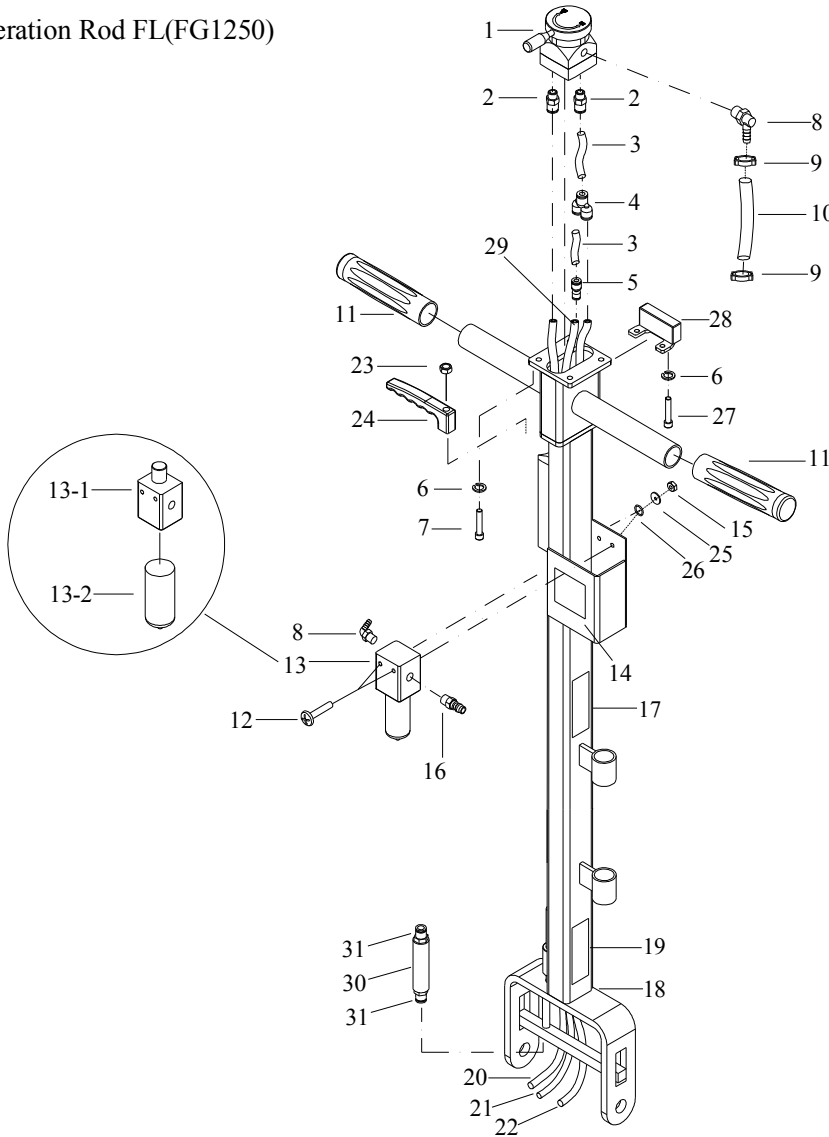
Frame(4042-2)



| Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY |
|------|------|---------------------|-----|------|------|-----------------|-----|
| 1 | F007 | Frame | 1 | 6 | Z24 | Adaptor | 1 |
| 2 | J10 | Outer Retainer Ring | 2 | 7 | J9 | Screw | 4 |
| 3 | N010 | Truckle Gasket | 2 | 8 | J11 | Nail | 4 |
| 4 | W44 | Truckle | 2 | 9 | F008 | Protected Plate | 1 |
| 5 | Z25 | Adaptor | 2 | 10 | B29 | Nameplate | 1 |

Frame Drawings
Picture D

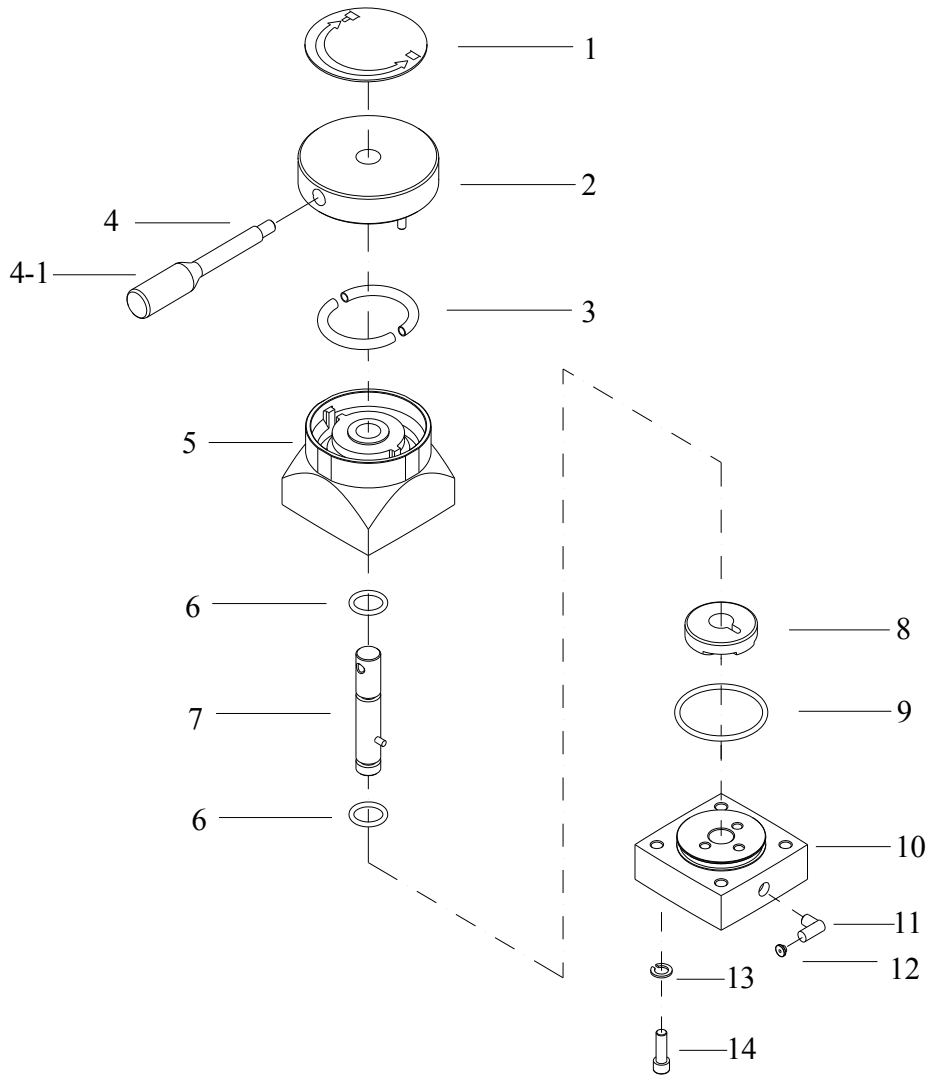
Operation Rod FL(FG1250)



| Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY |
|------|-------|---------------|-----|------|-------|---------------------------|-----|------|-----|-------------------------|-----|
| 1 | TV-04 | Hand Valve | 1 | 13 | W24 | Filter | 1 | 23 | J19 | M8 Bolt | 1 |
| 2 | Z13 | Adaptor | 2 | 13-1 | W24-1 | Valve Body | 1 | 24 | NG3 | Handle | 1 |
| 3 | Q21 | Windpipe | 2 | 13-2 | W24-2 | Glass | 1 | 25 | J16 | Spring Gasket | 2 |
| 4 | Z16 | Adaptor | 1 | 14 | B13 | Filter Instruction | 1 | 26 | J15 | Gasket | 2 |
| 5 | Z15 | Adaptor | 1 | 15 | J17 | M5 Bolt | 2 | 27 | J12 | Screw | 2 |
| 6 | J15 | Spring Gasket | 3 | 16 | 14020 | Adaptor | 1 | 28 | NG4 | Bumper of operation rod | 1 |
| 7 | J14 | Screw | 1 | 17 | B26 | Label of Caution | 1 | 29 | Q25 | Windpipe | 1 |
| 8 | Z12 | Adaptor | 2 | 18 | FG1 | Frame of Operation Rod FL | 1 | 30 | TV5 | Oil mist resistance pot | 1 |
| 9 | J20 | Lock Code | 2 | 19 | B27 | Instruction | 1 | 31 | Z14 | Adaptor | 2 |
| 10 | Q4 | Oil Pipe | 1 | 20 | Q21 | Windpipe | 1 | | | | |
| 11 | W25 | Handle Cover | 2 | 21 | Q24 | Windpipe | 1 | | | | |
| 12 | J13 | Screw | 2 | 22 | Q26 | Windpipe | 1 | | | | |

Operation Rod Exploded View
Picture E

Hand Valve(TV-04)



| Code | No. | PART NAME | QTY | Code | No. | PART NAME | QTY |
|------|-----|-----------------------------|-----|------|------|---------------------|-----|
| 1 | B18 | Label | 1 | 8 | TV1 | Valve Core | 1 |
| 2 | TV2 | Cover of Hand Valve | 1 | 9 | M4 | O Ring | 1 |
| 3 | W29 | Return Spring of Hand Valve | 2 | 10 | TV7 | Conversion Base(FV) | 1 |
| 4 | TV9 | Handle Shaft | 1 | 11 | Z4 | Adaptor | 1 |
| 4-1 | TV8 | Handle head | 1 | 12 | W190 | Exhaust Plug | 1 |
| 5 | TV6 | Cover of Reversing Valve | 1 | 13 | J15 | Spring Gasket | 1 |
| 6 | M21 | O Ring | 2 | 14 | J21 | Screw | 1 |
| 7 | W26 | Shaft | 1 | | | | |

Hand Valve
Picture F

Werking

