



Nr 9972-210310

# Manual

## Combi winch 2103





### **Thank you for buying a SAHLINS product**

We want you to be satisfied with your 2042 power unit, and this Instruction Manual has been written to help you handle and maintain it safely. Please read it carefully before operating the machine, so that you are aware of the safety measures you need to take when you use it.

#### **General.**

In designing and manufacturing the equipment, great care has been taken to avoid health and safety risks.

There are risks involved in cable-laying, and to avoid these, it is important:

- to study and follow the instructions
- to train personnel continuously in operation and safety
- to provide suitable equipment and tools
- that the owner and management take responsibility for ensuring that effective safety programs and instructions are produced and are followed by all personnel.

Our instructions contain important information which all users must be familiar with and understand before using the equipment. For the safety of yourself and others, please pay particular attention to the points/sections which have the following headings.

#### **WARNING**

Important information which warns you of a risk of serious injury or danger to life, if the instruction is not followed.

#### **CAUTION**

Important information which describes how to prevent damage to the machine and equipment, or how to avoid a situation which may cause personal injury.

#### **REMARKS**

Advisory information regarding the operation, care and maintenance of machinery and equipment



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## **Safety regulations.**

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### General safety measures

#### **Safety for personnel**

1. Read and familiarise yourself with all warnings, precautionary measures, and instructions in the operating and care manual, and read and learn the significance of all signs which are attached to and located around the equipment. If there is any doubt, ensure that all questions are answered before work begins.
2. Do not work with machines or equipment if you are under the influence of alcohol, strong medicines, tranquilisers or other drugs which may make you less alert, or which could affect your judgement.
3. Observe safety measures to avoid hair or loose articles of clothing becoming trapped in moving parts or control equipment.
4. If possible, protective gloves should be worn at all times to protect hands and fingers against cuts and abrasions, burns and solvents.
5. Always use eye protection if there is a risk of flying particles, splinters, dust or other objects which may injure the eyes, and where the safety instructions require it. Take care of your eyes!
6. Always use a safety helmet and protective footwear when the work requires it.
7. Use hearing protection at all times in working areas with high noise levels.
8. Do not carry out any unnecessary lifting which may cause back injury, use lifting equipment instead. Use your legs not your back when you are forced to lift by yourself.

#### **Safety at work**

9. Keep the working area clean and free from accumulations of material.
10. Do not permit unauthorized personnel to remain in or around the working area.
11. Surfaces which are touched by hands or feet must be kept clean, dry and free from oil or grease.
12. Store parts and tools in the intended place when they are not in use.
13. Carry out an inspection of warning equipment in the work area, and ensure that each individual unit functions satisfactorily before starting the equipment.
14. Do not stand under, or permit anyone else to stand under, the equipment when it is raised or suspended.
15. Find out the weight limits of ropes and lifting equipment, and the free movement which these require.
16. Pay attention to conditions which may obstruct visibility in and around the working area.

#### **Safety of the equipment.**

17. Warning, prohibitory and information signs must not be concealed, changed, damaged or removed.
18. Never climb onto the equipment during operation, or when it is moving or being lifted. Do not permit anyone else to do this.
19. Check the components in the equipment before each operating period, to ensure that no parts are damaged or are suspected of being damaged. Repair or replace damaged components, or any which are suspected of damage. Repair or replace damaged parts before starting and operating the equipment. Use only genuine SAHLINS parts.
20. Before starting and operating the equipment, it is essential to ensure that no persons, animals, tools, components or other foreign objects are in, on, under or around it. Check that all protective and safety equipment is correctly installed and in satisfactory condition.
21. Ensure before starting the machine that all staff and visitors in the work area have been informed that the equipment is about to be started. Use suitable warning equipment to warn them.
22. Do not permit untrained personnel to start or run any equipment without the supervision of a trained operator.
23. Never leave the equipment unattended during operation.



24. Watch out when starting and operating the equipment for any defective measuring instruments, visible defects, smells or unusual sounds which may give a warning of a fault. Stop the equipment immediately if a fault is suspected.

25. Carry out all inspections, maintenance, lubrication and adjustments with great care, and in accordance with the manufacturer's recommendations. The machine must always be stopped during maintenance work.

**Safety regarding flammable and environmentally-hazardous substances.**

26. Store flammable, combustible and dangerous substances in a safe place and in the appropriate containers. These must be clearly marked in accordance with current regulations.

27. Do not permit smoking or open flames in the vicinity of fuel and oil tanks or other flammable regulations.

28. Shut down all engines when filling with oil and fuel. Follow the instructions and recommendations which apply to the handling of these substances.

29. Never start a diesel or petrol engine in a confined space unless it is properly ventilated. Dangerous gases can kill.

30. Do not use flammable and/or combustible substances, such as petrol, paraffin or diesel oil to clean components. Always use non-flammable solvents which are intended for cleaning.



## Introduction

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### Multiwinch 2103

Multiwinch 2103 – a hydraulic driven, 2-speed, combined capstan and drumwinch with large capacity.  
Used for overheadline- or underground cable pulling.  
The machine is equipped with 2 capstan wheels and separate collectingdrum ( see accessories)  
For pulling overheadline especially ABC cable, a synthetic line is used, and a mechanical lockingdevice retains the load when you stop pulling.  
For underground cablepulling, a steelwire is used.  
Because of the capstanwheels you always have access to maximum pullingforce 1000kp.  
The line can easily be wound on or off to the capstanwheels, which are open at the side.  
The collectingdrum is also easy to change.  
When changing old conductors the 2103 can be used as a drumwinch.  
A splitdrum can be fitted to the shaft on the rear capstanwheel.  
Drums with large amounts of pilot rope ( max 1100m ) can be used for pulling light conductors when the requirement of pullingforce is low.  
The machine is fitted with a manual linespreader

## Technical specifications

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|                                                                          |                                                       |
|--------------------------------------------------------------------------|-------------------------------------------------------|
| Pullingforce:                                                            | Max 500/1000 Kp                                       |
| Pullingforce is regulated with a reliefvalve, value is shown on a gauge. |                                                       |
| Speed:                                                                   | 20/40 m/min (capstanwinch) max.140 m/min. (drumwinch) |
| Pilotrope (overheadline) :                                               | 500/1100m syntethic line 6-8mm                        |
| Steelwire (underground):                                                 | 500m steelwire 5mm.                                   |
| Drive:                                                                   | Hydraulic with aircooled oiltank                      |
| Engine:                                                                  | Four-stroke petrol engine 13 hp                       |
| Chassis:                                                                 | Suspended wheelaxle, supportlegs, jockeywheel         |
| Dimensions:                                                              | Length 2500 mm, width 1270 mm, height 1050 mm.        |
| Weight:                                                                  | 260 kg (without drums).                               |

### Basic equipment:

- 13 hp, 4-stroke petrol engine (electric start)
- Gearbox
- 2 capstanwheels
- Dynamometer
- Reliefvalve (pullingforce regulation)
- Suspended wheelaxle
- Jockeywheel
- Supportlegs (2)
- 50mm ballcoupling
- Linespreader



## Handling

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### *Setting up the machine*



- 1) Remove the machine from the towing hook.
  - 2) Wind the jockeywheel up as far as possible.
  - 3) Adjust the supportlegs to a suitable height and lock them.
  - 4) Wind the jockeywheel down so that the machine rests firmly on the supportlegs.
- If needed anchor the machine at the anchoringeye to a solid object.





### ***Fitting the drum***

The collecting drum is equipped with a springcatch. Pull up the springcatch and fit the drum on the shaft. Make sure that the springcatch hits the hole on the shaft.

When pulling out line – fit the drum so that the springcatch hits the groove on the shaft.

This make it possible to pull the line directly from the drum.(not from the capstanwheels)



### **Fitting the drum do the outlet shaft of the capstanwheel**

Run the winch so that the wide slot on the shaft points forward-upwards.

Fit the drum with the catch pulled in and turn the drumcoupling into the slot and turn so that the catch engages, lock the bearing cover to the shaftend with the excentric lockingdevice.

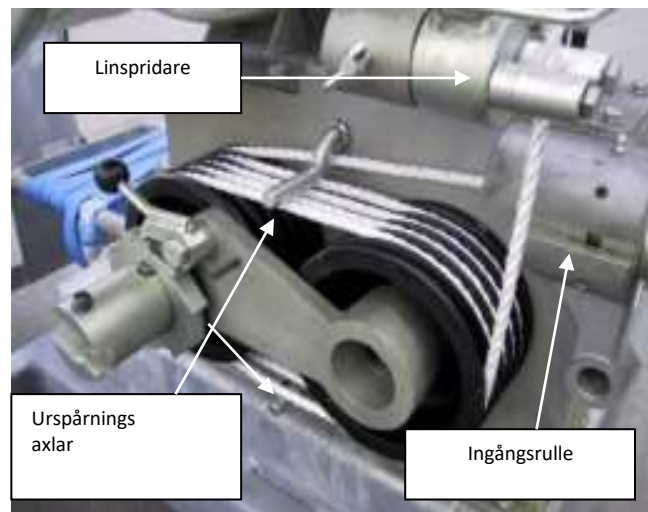




### ***Fitting the wirerope on capstanwheels***

Make five loops with the wirerope  
Fit the last loop's outgoing rope in the inlet roller  
and thread the rope around the inner groove of the rear  
wheel, continue to the inner groove of the front wheel.  
Wind the rope on all grooves and finish through  
the linespreader up to the drum.

**Caution! Make sure that the wirerope is accurate fitted in the  
grooves of the capstanwheels before winching starts.**





## Operation

### ***Start / stop of engine***

See manual for Honda GX 390

### ***Direction***

Operation forward / reverse is performed with control (1) on the winch unit.

### ***Force***

The machine is equipped with a dynamometer where you can read the pullinforce.



### Setting of pullingforce

The pullingforce is set with a relief valve (3)

- 1) Turn the valve anticlockwise all the way
- 2) Pull the control (1) towards you to reel in.
- 3) Turn valve (1) until capstanwheels and drum starts to rotate.
- 4) Turn the valve (1) another 1-1,5 turn.

This means that the maximum pulling force will be just over what shows on the dynamometer.

If the wirerope for some reason get stuck the pullingforce will increase and reach the preset pullingforce

The valve will overflow and the winch stops.

This to prevent injuries on wirerope or poles.

Gradually the need pullingforce will increase, which means that the valve must be adjusted along the way.

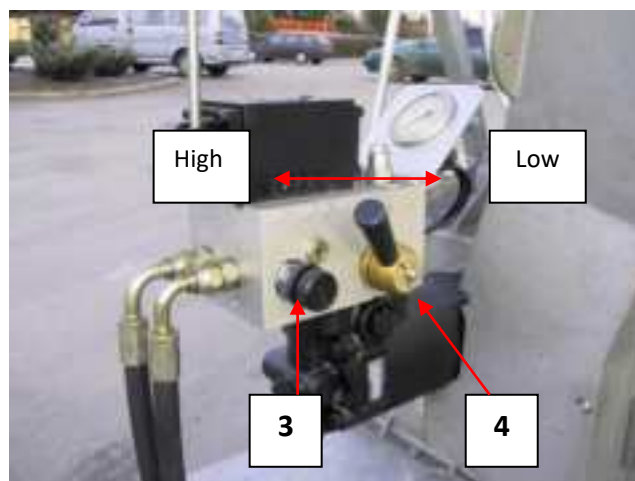
When the weight of the pulled load increases the winch will stop, turn the valve 1-1,5 turn until the pulling is finished.

### Setting of speed

The speedcontrol (4) can be adjusted either when winching or during stop.

At low speed maximum pullingforce 1000kp can be reached.

At high speed maximum pullingforce 500kp can be reached.





## Maintenance

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### ***Honda engine:***

See manual for Honda GX 390

## Hydraulic system

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### ***Hydraulic tank:***

The oil level shall be between min- and max- marking on the level indicator.

Fill oil at the breather plug on top of the tank.

The hydraulic fluid shall be analyzed or changed at least once a year.

Clean the tank if necessary.

Hydraulic fluid: Shell Tellus T32 or equal.

Tank space: approx. 9 litres.

Hydraulic oil filter: 10µm Change the filter after 200 hours, at least every 6 months.

The oil filter shall always be changed when changing hydraulic fluid or at a major service of the hydraulic system.

The filter cartridge must under no circumstances be washed, since this can cause serious injuries of the system when re-using cartridges.

Always change to a new cartridge.

Check for leakage at controls and connections. Tighten connections if leakage should occur.

## Winch unit

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The oil level in the winch housing is checked at the upper oil plug of the front gable.

If needed fill with gear box oil SAE 90, fill at the breather plug on the top of the winch.

Change the oil once a year approx. 3 litres.

Lubricate the linespreader and the nose wheel with grease.

If needed lubricate the drive chain.

Open the friction coupling cover on top of the winch.

Make sure that the friction discs don't become greasy.

Lubricate the drum shaft with grease

Check the wire rope regularly to ensure that it's not damaged.

### ***Drive chain***

The tension of the drive chain for the collecting drum is adjusted with the tensioner (see picture)

Loosen the two bolts put a screwdriver and break until you get the right tension

Tighten the two bolts again.





## ***Frictioncoupling***

The frictioncoupling works to create tension between the collecting drum and capstanwheels.

To reach the coupling remove the topcover.

If the capstanwheels rotates without the wirerope is collected, the coupling is too loose.

The coupling may need adjustment:

Loosen the lockingscrews.(1)



Turn the nut with attached specialkey.(2)

Turn it bit by bit until the collectingdrum rotates with as much force it takes to get maximum pullingforce.

**Caution! Do not tighten the coupling too much  
Damages on the winch may occure.**

Adjustments shall be performed with a full collectingdrum.

## ***Frictionbrake***

The frictionbrake that prevents the drum from Overrunning can be adjusted:

Loosen the two locknuts and adjust the screws.

Adjust equal on both screws to get the frictiondisc to maintain an even tension.

The adjustment is performed with a full drum.

Make sure that the drum doesn't rotates too sluggish and that it stops instantly when you stop winching.





## ***Chassis***

The chassis is galvanized and do not need any further treatment  
Kontrollera regelbundet det främre stödhjulet och däcken.  
Däcktryck 2,75 Bar.

### **General**

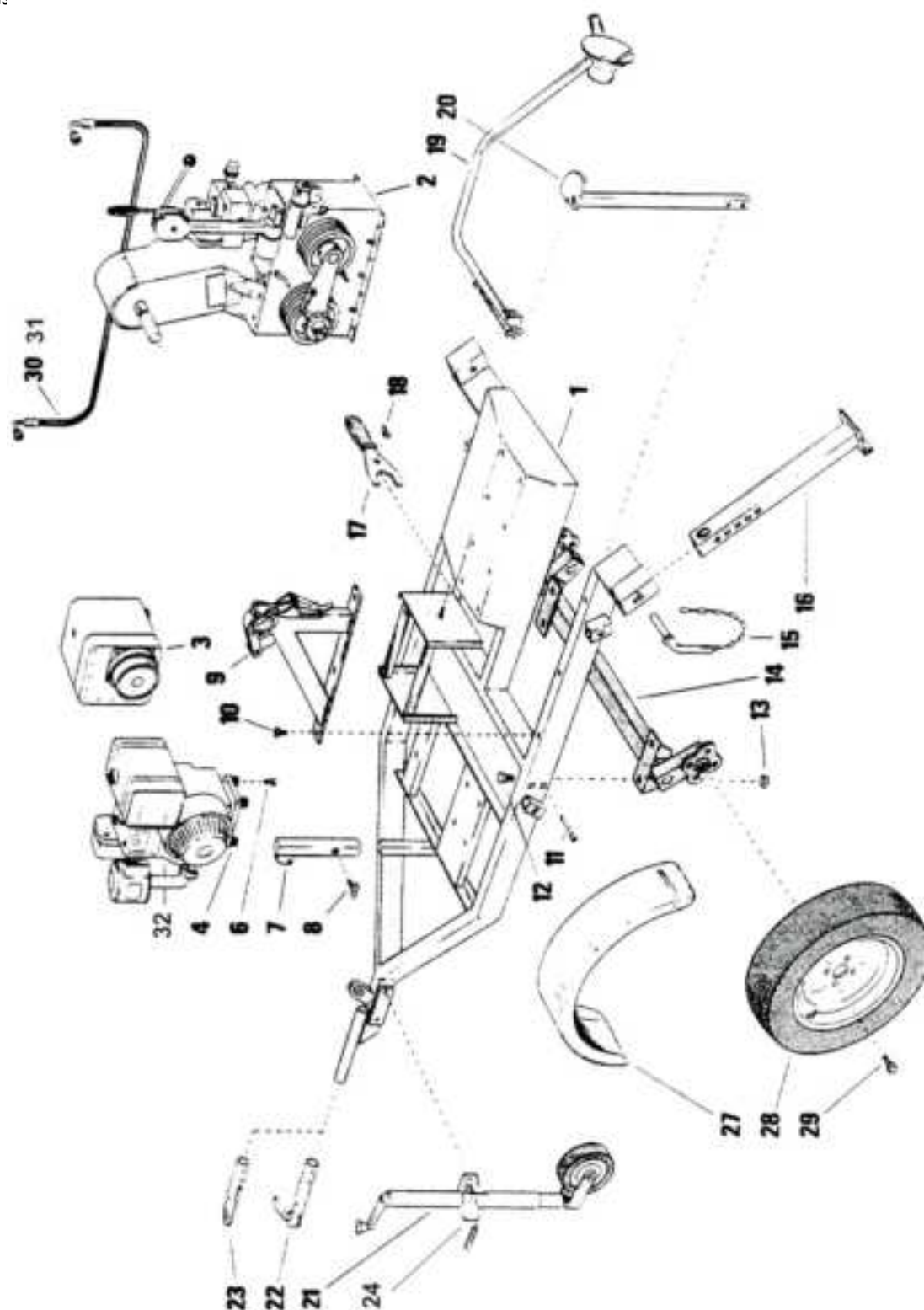
Lift the 2103-winch at the front anchoring eye and at the upper holes of the supportlegs.

**Caution! Use approved lifting equipment**

Weight approx. 260kg without drum

## Spareparts

Chassis



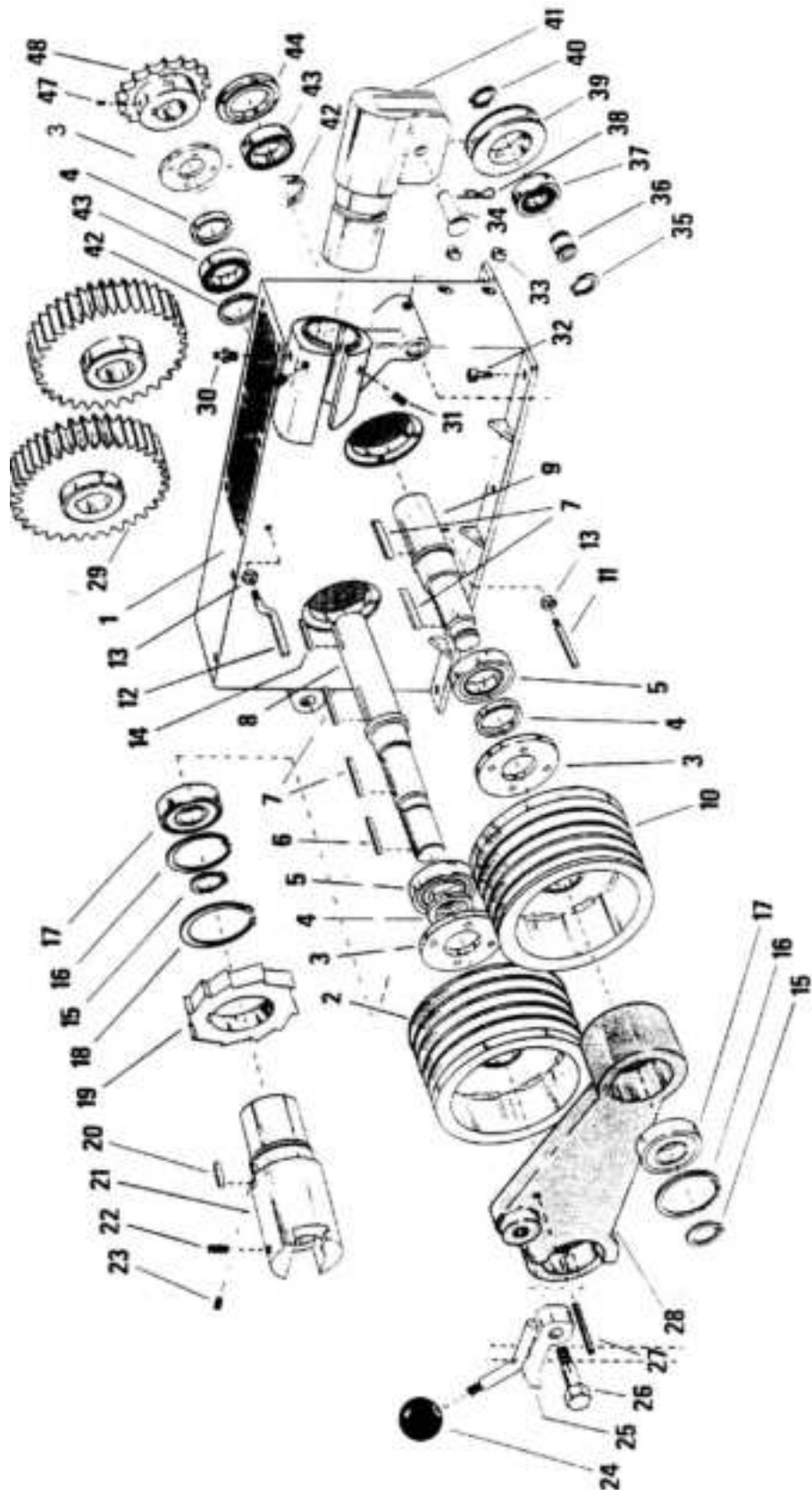


**Sparepartlist Chassis** ref to page 14

| Ref.No. | Qty | Partnumber  | Partname                                         |
|---------|-----|-------------|--------------------------------------------------|
| 1       | 1   | 2100-5011   | Frame / Ram                                      |
| 2       | 1   | See page 18 | Winchunit / Vinschenhet                          |
| 3       | 1   | See page 20 | Hydraulic tank                                   |
| 4       | 6   | 9503-001    | Cushion /Motordämpare                            |
| 5       | 1   | 3060-0021   | Drum/trumma Ø530                                 |
| 5a      | 1   | 3060-0010   | Drum/trumma Ø395                                 |
| 6       | 4   | 9631-08016  | Screw M8x16                                      |
| 7       | 1   | 2100-0050   | Drumstand / Trumhållare                          |
| 8       | 1   | 9401-08016  | Wingscrew                                        |
| 9       | 1   | 2100-0200   | Drum support / Stödlager                         |
| 10      | 3   | 9361-08020  | Screw M8x20                                      |
| 11      | 2   | 9371-08080  | Screw M8x80                                      |
| 12      | 4   | 9361-12040  | Screw M12x40                                     |
| 13      | 4   | 9422-12     | Locknut / Låsmutter                              |
| 14      | 1   | 9580-002    | Wheelshaft / Hjulaxel                            |
| 15      | 2   | 2100-5009   | Pin supportleg / Sprint stödben                  |
| 16      | 2   | 2100-5010   | Supportleg / Stödben                             |
| 17      | 2   | 3060-0080   | Friction clutch tool / Friktionskopplingsverktyg |
| 18      | 1   | 9425-10     | Wingnut M10                                      |
| 19      | 1   | 9809-010    | Linespreader / Linspridare                       |
| 20      | 1   | 2100-5040   | Linespreaderattachment / Linspridarfäste         |
| 21      | 1   | 9583-001    | Jockeywheel ass. / Stödhjul komplett             |
| 22      | 1   | 9582-007    | Ballhead / Kulkoppling Ø50mm                     |
| 23      | 1   | 2100-0030   | Pullingeye / Dragögla                            |
| 27      | 2   | 2100-5012   | Mudguard / Stänkskärm                            |
| 28      | 2   | 9581-007    | Wheel / Hjul                                     |
| 29      | 8   | 9589-006    | Wheelscrew / Hjulskruv                           |
| 30      | 1   | 9631-314101 | Hydraulic hose / Hydraulikslang                  |
| 31      | 1   | 9631-314301 | Hydraulic hose / Hydraulikslang                  |
| 32      | 1   | 9602-0132   | Engine / Motor Honda 13hp                        |



Winch



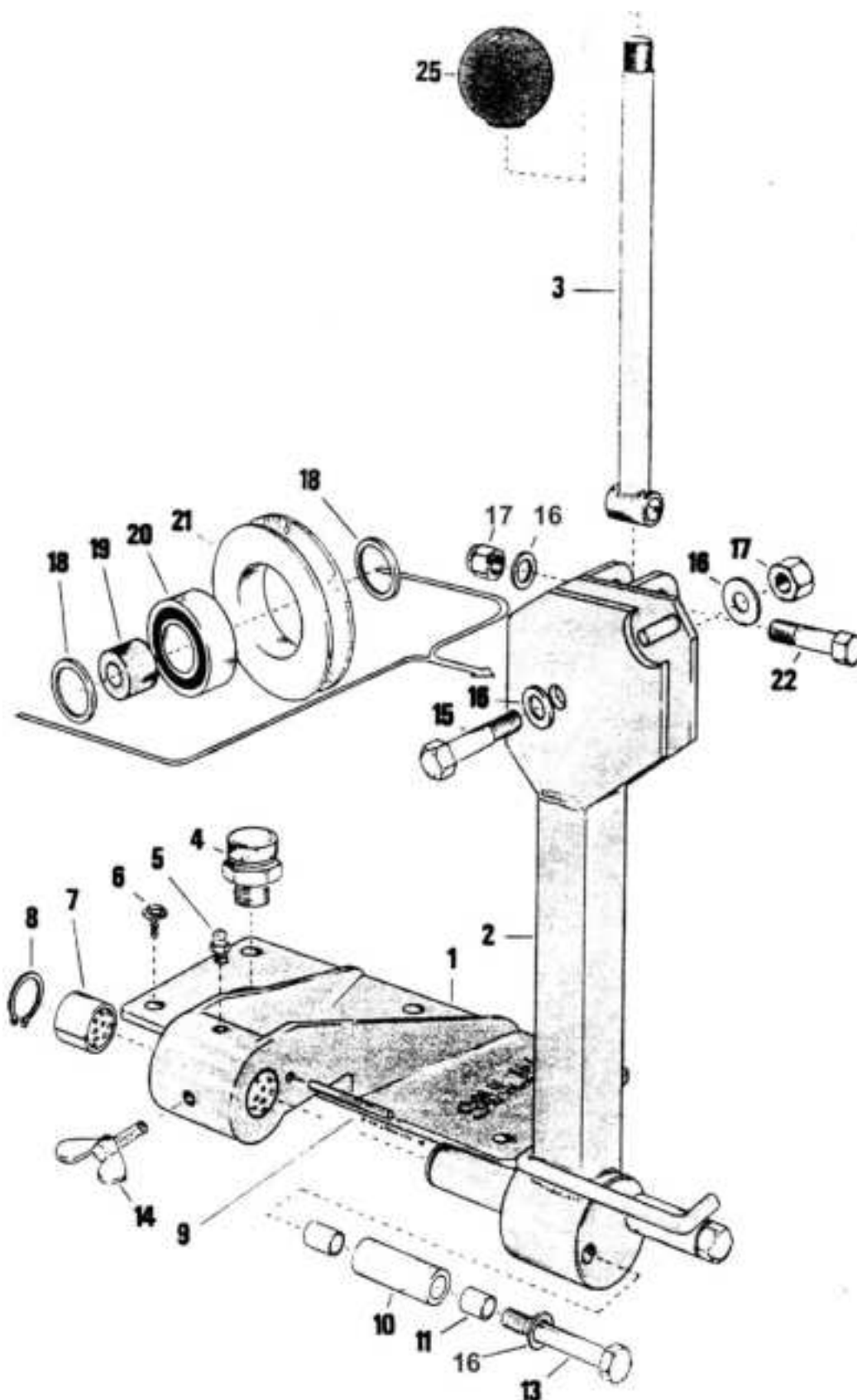


**Sparepartlist Winch** ref to page 16

| Ref.No. | Qty | Partnumber      | Partname                                  |
|---------|-----|-----------------|-------------------------------------------|
| 1       | 1   | 3060-5001       | Winchhousing / Vinschhus                  |
| 2       | 1   | 3062-5001       | Bullwheel / Nockhjul                      |
| 3       | 3   | 3060-5004       | Bearinglid / Lagerlock                    |
| 4       | 3   | 9462-30477      | Sealing ring / Tättningsring              |
| 5       | 6   | 9201-6006-0     | Ballbearing / Spårkullager 6006-0         |
| 6       | 1   | 9322-0840       | Flat key / Plattkil 8x7x40 T              |
| 7       | 5   | 9321-0840       | Flat key / Plattkil 8x7x40 R              |
| 8       | 1   | 3060-5005       | Shaft Bullwheel / Axel nockhjul           |
| 9       | 1   | 3060-5006       | Shaft Bullwheel / Axel nockhjul           |
| 10      | 1   | 3062-5002       | Bullwheel / Nockhjul                      |
| 11      | 1   | 3062-5003       | Cablepin lower / Lintapp undre            |
| 12      | 1   | 3062-5004       | Cablepin upper / Lintapp övre             |
| 13      | 2   | 9424-12         | Nut / Mutter M12                          |
| 14      | 1   | 9321-0830       | Flatkey /plattkil 8x7x30 R                |
| 15      | 2   | 9302-025        | Lockring / Seegersäkring SGA25            |
| 16      | 2   | 9301-047        | Lockring / Seegersäkring SGH47            |
| 17      | 3   | 9201-6005-20    | Ballbearing / Spårkullager 6005-2RS (SKF) |
| 18      | 1   | 9302-050        | Lockring / Seegersäkring SGA50            |
| 19      | 1   | 3062-5005       | Lockwheel / Spärrhjul                     |
| 20      | 1   | 9322-1416       | Flatkey /plattkil 14x9x16T                |
| 21      | 1   | 3062-5006       | Shaftcoupling / Axelkoppling Type C       |
| 22      | 1   | 9389-001        | Ballscrew / Kulskruv M12                  |
| 23      | 1   | 9374-08006      | Stopscrew / Stoppskruv M8x6               |
| 24      | 1   | 9511-2508       | Knob / Kula M8 Ø25                        |
| 25      | 1   | 3062-5008       | Catchhook / Spärrhake                     |
| 26      | 1   | 3062-5009       | Screw / Skruv M12x37 special              |
| 27      | 1   | 9344-04036      | Rollpin / fjädrande rörpinne M4x36        |
| 28      | 1   | 3062-5010       | Shaftspacer / Axeldistans                 |
| 29      | 2   | 3062-5011       | Gearwheel / Kugghjul                      |
| 30      | 1   | 9551-06         | Greasenipple / Smörjnippel                |
| 31      | 2   | 9373-06016      | Stopscrew / Stoppskruv M6x16              |
| 32      | 8   | 9361-08040      | Screw / Skruv M8x40                       |
| 33      | 2   | 9621-VSTIR1/4ED | Oilplug / Oljeplugg R1/4BSP               |
| 34      | 1   | 3060-5008       | Nosewheelshaft / Noshjulsaxel             |
| 35      | 3   | 9302-020        | Lockring / Seegersäkring SGA20            |
| 36      | 1   | 3060-5009       | Spacecasing / Distanshylsa                |
| 37      | 1   | 9201-6004-2     | Ballbearing / Spårkullager 6004-2RS       |
| 38      | 1   | 9343-04532      | Pin / Ringsprint                          |
| 39      | 1   | 3060-5010       | Guideroller / Brythjul                    |
| 40      | 2   | 9302-020        | Lockring / Seegersäkring SGA20            |
| 41      | 1   | 3060-5011       | Nosewheel casing / Noshjulshållare        |
| 42      | 2   | 3060-5012       | Spacer / Distans                          |
| 43      | 4   | 9201-6006-0     | Ballbearing / Spårkullager 6006-0         |
| 44      | 2   | 3060-5013       | Coverplate / Lock                         |
| 47      | 1   | 9374-08010      | Stopscrew / Stoppskruv M8x10              |
| 48      | 1   | 3060-5014       | Chainwheel / Kedjehjul                    |



# Linespreader



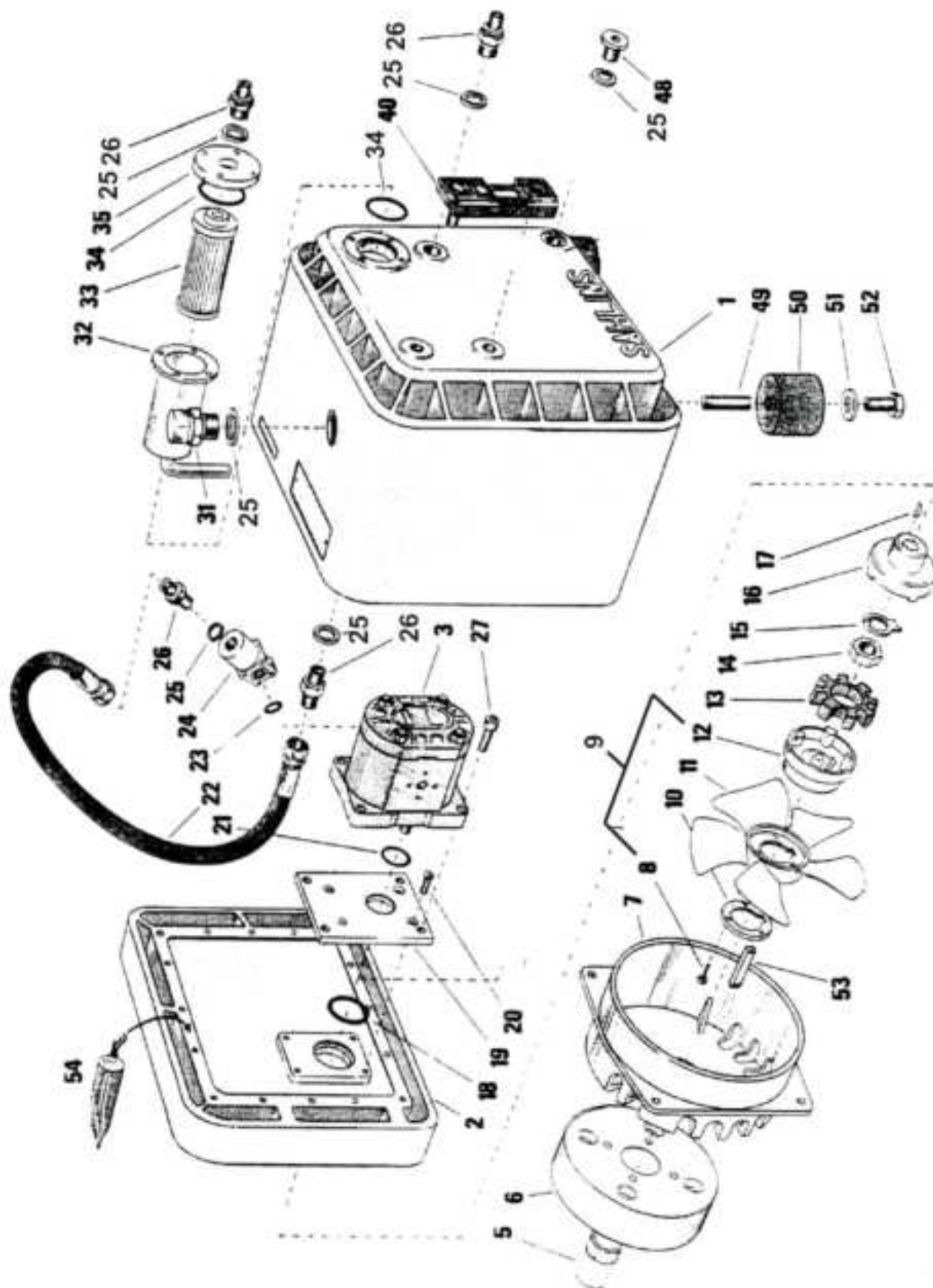


**Sparepartlist linespreader** ref to page 18

| Ref.No. | Qty | Partnumber  | Partname                                            |
|---------|-----|-------------|-----------------------------------------------------|
| 1       | 1   | 3062-5012   | Cover linespreaderattachment / Lock linspridarfäste |
| 2       | 1   | 3062-5013   | Arm linespreader / Linspridararm                    |
| 3       | 1   | 3062-5014   | Controlarm / Linspridararm                          |
| 4       | 1   | 9674-001    | Breatherplug / Lyftningsfilter MTSF R3/8 BSP        |
| 5       | 1   | 9551-06     | Greasenipple / Smörjnippel                          |
| 6       | 6   | 9361-06020  | Screw / Skruv M6x20                                 |
| 7       | 2   | 9254-2020   | Slide bearing / Glidlager 20x23x20                  |
| 8       | 1   | 9302-020    | Lockring / Seegersäkring SGA20                      |
| 9       | 1   | 9344-05040  | Rollpin / Fjädrande rörpinne FRP 5x40               |
| 10      | 1   | 3060-5021   | Roller / Rulle                                      |
| 11      | 4   | 9254-0810   | Slide bearing / Glidlager PDE 8x10x10               |
| 13      | 2   | 9361-08065  | Screw / Skruv M8x65                                 |
| 14      | 1   | 9401-08016  | Wingscrew / Vingskruv M8x16                         |
| 15      | 1   | 9361-08040  | Screw / Skruv M8x40                                 |
| 16      | 3   | 9441-084    | Washer / Bricka BRB 8,4                             |
| 17      | 1   | 9422-08     | Locknut / Låsmutter M8                              |
| 18      | 2   | 9449-013    | Spacerring / Distansbricka                          |
| 19      | 1   | 3062-5015   | Spacer / Distanshylsa                               |
| 20      | 1   | 9201-6004-2 | Ballbearing / Spårkullager 6004-2RS                 |
| 21      | 1   | 3060-5010   | Guideroller / Brythjul                              |
| 22      | 1   | 9361-08040  | Screw / Skruv M8x40                                 |
| 25      | 1   | 9511-3010   | Knob / Kula M10 Ø30                                 |



# Powerpack



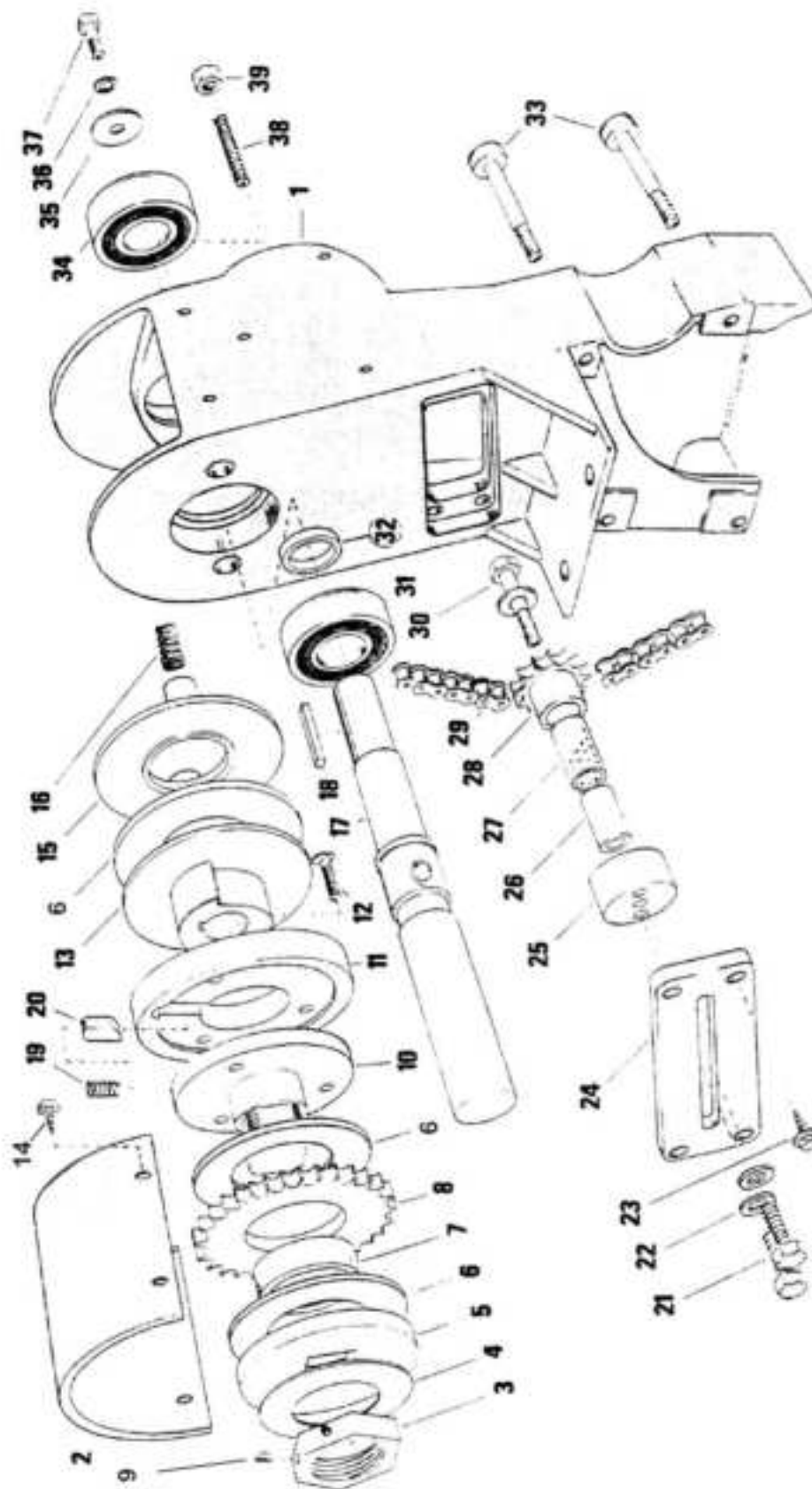


**Sparepartlist Powerpack ref to page 20**

| Ref.No. | Qty | Partnumber    | Partname                                          |
|---------|-----|---------------|---------------------------------------------------|
| 1       | 1   | 1010-5001     | Tank                                              |
| 2       | 1   | 1010-5002     | Tank cover / Tanklock                             |
| 3       | 1   | 9642-00601    | Hydraulicpump / Hydraulpump Casappa PLP6,3D       |
| 5       | 1   | 1013-5005     | Shaft spacer engine / Distansrör motoraxel        |
| 6       | 1   | 1013-5001     | Intermediate spacer engine / Mellandistans motor  |
| 7       | 1   | 1010-5003     | Adaptor / Mellanstycke                            |
| 8       | 3   | 9381-04016    | Screw / Skruv MCS 4x16                            |
| 9       | 1   | 2103-4020     | Coupling complete / Axelkoppling komplett         |
| 10      | 1   | 1013-5004     | Washer / Bricka                                   |
| 11      | 1   | 1013-5003     | Fan / Fläkt                                       |
| 12      | 1   | 1013-5002     | Coupling engine / Axelkoppling motor              |
| 13      | 1   | 9610-010-04   | Rubberelement / Gummikors                         |
| 14      | 1   | 9839-003      | Nut / Mutter                                      |
| 15      | 1   | 9839-002      | Washer / bricka                                   |
| 16      | 1   | 9610-010-02   | Coupling / Axelkoppling pump                      |
| 17      | 1   | 9323-003      | Woodruffkey / Woodruffkil                         |
| 18      | 1   | 9461-44624    | O-ring 44,6x2,4                                   |
| 19      | 1   | 1012-5006     | Adaptor pump / Pumpadapter                        |
| 20      | 4   | 9372-06020    | Screw / Insexskruv MF6S M6x20                     |
| 21      | 1   | 9461-36020    | O-ring                                            |
| 22      | 1   | 9631-305001   | Hydraulic hose / Hydraulslang                     |
| 23      | 1   |               | O-ring                                            |
| 24      | 1   | 9649-004      | Connectionflange / Anslutningsfläns               |
| 25      | 4   | 9633-GBR3/8   | Washer / Bricka GBR3/8                            |
| 26      | 3   | 9632-R83566   | Adaptor R3/8 - R3/8                               |
| 27      | 4   | 9371-08030    | Screw / Insexskruv MC6S M8x30                     |
| 31      | 1   | 9674-001      | Plug MTSF 3/8                                     |
| 32      | 1   | 1010-5013     | Cartridgecapsule / Filterhållare                  |
| 33      | 1   | 9671-001      | Filter cartridge / Filterpatron                   |
| 34      | 1   | 9461-57624    | O-ring 57,6x2,4                                   |
| 35      | 1   | 1010-5011     | Filtercover / Filterlock                          |
| 40      | 1   | 9673-001      | Levelglass / Nivåglas                             |
| 48      | 1   | 9621-VSTIR3/8 | Oilplug / Oljeplugg R3/8                          |
| 49      | 2   | 9373-08025    | Studscrew / Stoppskruv M8x25                      |
| 50      | 2   | 9503-001      | Rubber suspension / Motordämpare R39M8            |
| 51      | 2   | 9444-082      | Washer / Bricka FBB 8,2                           |
| 52      | 2   | 9361-08030    | Screw / Skruv M8x30                               |
| 53      | 1   | 9329-006      | Key / Kil 1/4"x20                                 |
| 54      |     |               | Loctite 574 or equal (Tanksealing / Tanktätning ) |



Frictionunit / drumholder



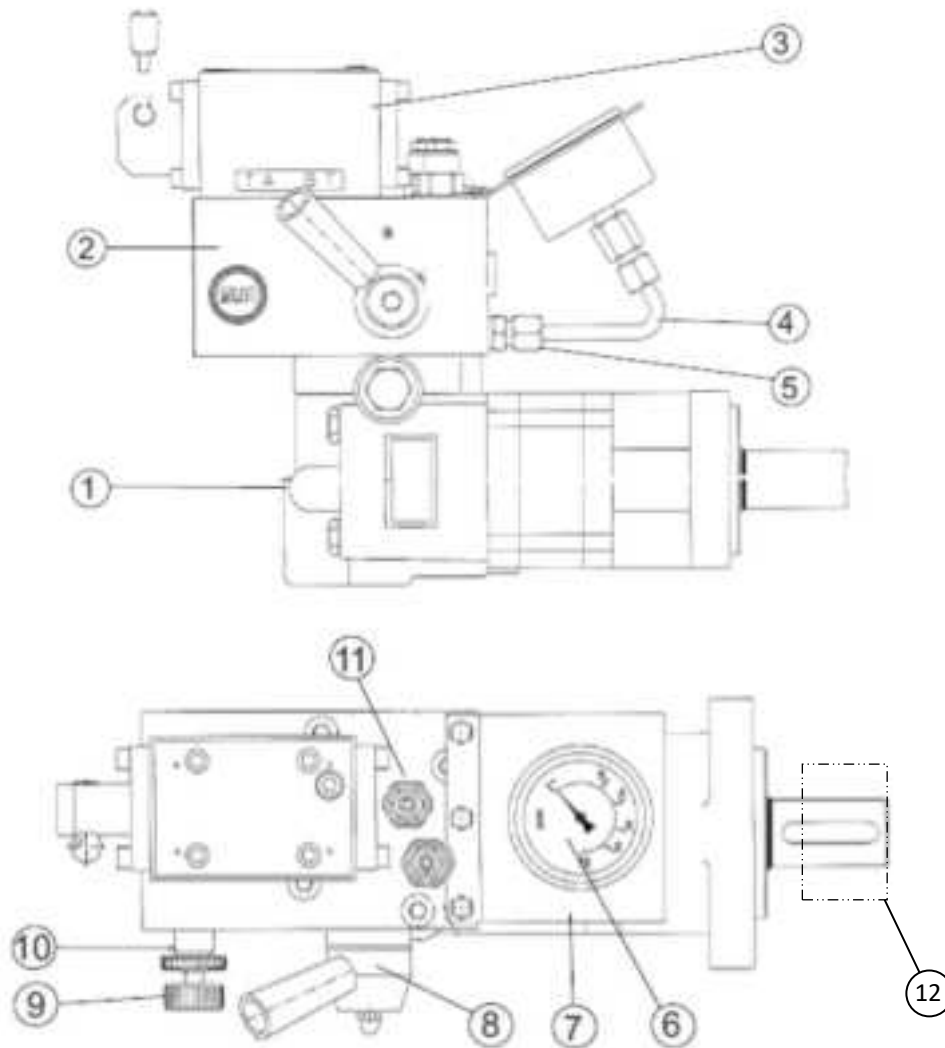


**Sparepartlist frictionunit / drumholder** ref. to page 22

| Ref.No. | Qty | Partnumber  | Partname                                |
|---------|-----|-------------|-----------------------------------------|
| 1       | 1   | 3062-5016   | Drumholder frame / Trumhållarstativ     |
| 2       | 1   | 3062-5024   | Chainguard / Kedjeskydd                 |
| 3       | 1   | 3060-5047   | Nut / Mutter                            |
| 4       | 1   | 9485-001    | Discspring / Tallriksfjäder             |
| 5       | 1   | 3060-5046   | Clutch driveplate / Tryckplatta         |
| 6       | 1   | 9591-001    | Frictiondisc / Friktionsbelägg          |
| 7       | 1   | 9229-001    | Needle bearing / Nållager               |
| 8       | 1   | 3060-5026   | Chainwheel / Kedjehjul                  |
| 9       | 2   | 9373-08006  | Grubscrew / Stoppskruv M6x8             |
| 10      | 1   | 3060-5045   | Hub / Kopplingsnav                      |
| 11      | 1   | 3060-5027   | Coasterhub outer / Frihjulsnav ytterdel |
| 12      | 3   | 9372-06025  | Screw / Skruv MF6S M6x25                |
| 13      | 1   | 3060-5028   | Coasterhub inner / Frihjulsnav innerdel |
| 14      | 4   | 9361-06012  | Screw / Skruv M6S M6x12                 |
| 15      | 1   | 3060-5029   | Brakehub / Bromsnav                     |
| 16      | 2   | 9481-010    | Compressionspring / Tryckfjäder         |
| 17      | 1   | 3060-5030   | Drumshaft / Trumaxel                    |
| 18      | 1   | 9322-0630   | Key / Kil 6x6x30                        |
| 19      | 1   | 9481-011    | Compressionspring / Tryckfjäder         |
| 20      | 1   | 3060-5031   | Catch / Spärr                           |
| 21      | 2   | 9361-08025  | Screw / Skruv M6S M8x25                 |
| 22      | 2   | 9441-084    | Washer / Bricka FBB 8,2                 |
| 23      | 4   | 9361-06020  | Screw / Skruv M6S M6x20                 |
| 24      | 1   | 3060-5032   | Cover / Lock                            |
| 25      | 1   | 3060-5033   | Distancepiece / Mellanstycke            |
| 26      | 1   | 3060-5034   | Pipe / Rör                              |
| 27      | 1   | 9251-1525   | Slidebearing / Glidlager WB681          |
| 28      | 1   | 3060-5035   | Chainwheel / Kedjehjul                  |
| 29      | 1   | 3060-5025   | Chain + Chainlock / Rullkedja + lås     |
| 30      | 1   | 9361-08045  | Screw / Skruv M6S M8x45                 |
| 31      | 1   | 9201-6005-2 | Ballbearing / Spårkullager 6005-2RS     |
| 32      | 1   | 3060-5036   | Spacer / Distans                        |
| 33      | 4   | 9371-08080  | Screw / Skruv MC6S M8x80                |
| 34      | 1   | 9201-6204-2 | Ballbearing / Spårkullager 6204-2RS     |
| 35      | 1   | 9449-084    | Washer / Bricka FBB 8,2x26x5            |
| 36      | 1   | 9444-082    | Washer / Bricka FRB 8,2                 |
| 37      | 1   | 9361-08020  | Screw / Skruv M6S M8x20                 |
| 38      | 2   | 9374-12045  | Grubscrew / Stoppskruv SK6SSM12X45      |
| 39      | 2   | 9421-12     | Nut / Mutter M12                        |



## Hydraulic manifold and motor



| Ref.No. | Qty | Partnumber   | Partname                                       |
|---------|-----|--------------|------------------------------------------------|
| 1       | 1   | 9641-13102   | Hydraulic motor 2-speed / Hydraulmotor 2-hast. |
| 2       | 1   | 2103-5001    | Hydraulic manifold / Hydraulblock              |
| 3       | 1   | 9661-010     | Directional valve / Ritningsventil             |
| 4       | 1   | 9675-100     | Hose / Måtslang                                |
| 5       | 1   | 9621-GE8L1/4 | Hydraulic connector / Hydraulkoppling          |
| 6       | 1   | 2103-5006    | Gauge / Manometer                              |
| 7       | 1   | 2103-5002    | Gauge frame / Manometerhållare                 |
| 8       | 1   | 9662-003     | Valve / Ventil MRV3-10-D                       |
| 9       | 1   | 9663-901     | Control kit / Ratt                             |
| 10      | 1   | 9663-020     | Relief valve / Tryckbegränsningsventil         |
| 11      | 2   | 9663-033     | Counterbalance valve / Lasthållningsventil     |
| 12      | 1   | 3062-5017    | Gearwheel / Kugghjul                           |



## Accessories

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### ***Accessories overheadlinewinch***

Pilotropedrum with 1100m Ø 6 mm Polynite  
Part.no: **2060-0030**

Empty drum Ø 530  
Part.no: **3060-0021**

Pilotrope Polynite 1100m Ø 6 mm  
Part.no: **7512-061100**



Pilotropedrum with 1100 m Ø 6 mm Polynite Ø 680  
Art.nr.: **204-034**

Piloteropedrum empty Ø 680  
Part.no: **2040-0121**

Pilotrope Polynite 1100m Ø 6 mm  
Part.no: **7512-061100**



Splitdrum  
Part.no.: **2040-0215**





## ***Accessories underground cable winch***

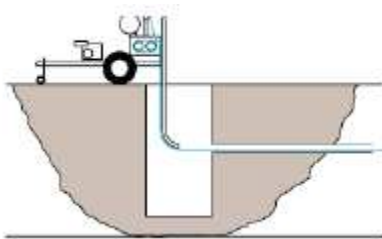
Drum and steel wire rope

Empty drum     $\varnothing$  395 mm  
Part. No.:      3060-0010

Steelwire rope    500 m  $\varnothing$  5 mm  
Part. No.:      7540-001



Underground boom  
Part. No.: 2100-0020



## ***Other accessories***

Protective coverl                      Part.no.: 2100-0060





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