



# Instruction and Parts Manual

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**UBS 13Hydro**

**UBS 16Hydro**

**UBS 18Hydro**



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28/04/08

Compiled

**UK**

**Kersten Maschinenvertriebs GmbH**  
D - 46459 Rees, Empeler Straße 93-95  
[www.kersten-maschinen.de](http://www.kersten-maschinen.de)  
Tel.: 028 51 / 92 34 0  
Fax: 028 51 / 92 34 44

**Kersten (UK) Ltd**

Email: [info@kersten-machines.com](mailto:info@kersten-machines.com)  
[www.kersten-machines.com](http://www.kersten-machines.com)

## **1     About this manual**

Dear Customer,

We thank you for the purchase of this machine or attachment and having confidence in our equipment.

Before using this machine please read this instruction manual carefully. Keep this manual to hand as it contains important information and instructions.

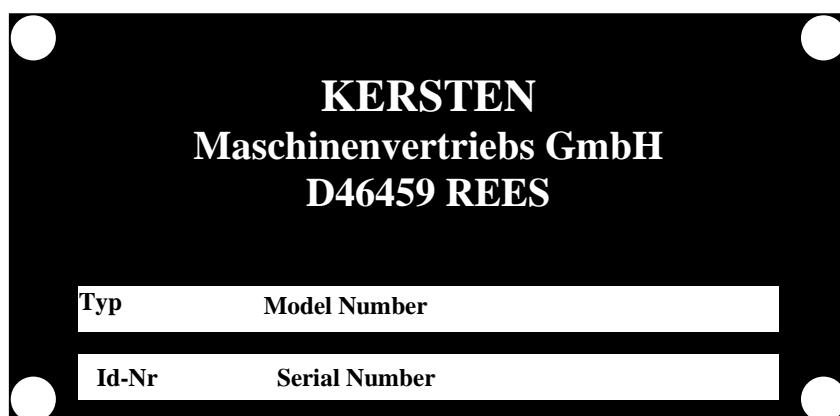
The machine or the attachment is subject technical progress.

All Information, illustrations and technical data corresponds to the newest model at the time of the publication.

Changes due to technical progress are reserved by the manufacturer at any time.

### **1.1   Product Identification**

Always quote model number and serial number when ordering spare parts. The identification plate may be found on the main chassis of all machines.



### **1.2   Before start up**

We are not liable for any substantial accident and/or damage.

Before you drive this machine or start the engine of the Kersten machine that you are handling, we ask that you urgently to make yourself familiar with this manual and the operation of the machine.



- This symbol indicates important safety information!**
- Read all safety references on the following pages!**
- Read the operating instructions before start-up!**
- Use this manual in conjunction with the power unit manual!**
- Pass all safety instructions onto other users!**

### **1.3 Intended use**



- The machine is a hydraulically propelled 2 wheel tractor exclusively intended for professional employment in the management of land, forestry, amenity and landscape conservation and for sole use with Kersten attachments. (Also see individual attachment instructions.)
- Use going beyond that described is not considered as intended. Therefore the manufacturer is not responsible for any resulting damage or harm and the operator alone is responsible for the risk.
- Compliance with and adherence to the operating, maintenance and repair as prescribed by the manufacturer in this manual must be considered essential elements of intended use.
- The machine may only be operated repaired and serviced by persons familiar with the machine, this manual and all relevant safety features and dangers.
- The relevant rules for the prevention of accidents as well as other safety-relevant rules according to the health and safety at work act must be considered as part of the operating procedure.
- The manufacturer is not liable for any accidents or damage resulting from modifications or alterations carried out on the machine without the express written permission of the manufacturer.

## **2 Safety Precautions**

It is important to note that not all possibilities can be covered within this manual.

The manual assumes that the operator has a general awareness for Health and Safety to be appointed an operator in the first place.

This Kersten machine has been designed, so far as is reasonably practical,

So that it will not endanger the safety of the operator or anyone else if the machine is used and maintained according to the instructions stated in this manual which have been compiled following research and experience of the manufacturers.

## **2.1 General safety and accident prevention instructions:**



- Consider all additional valid general operating instructions and health and safety regulations
- This machine should not be operated by any person under the age of 16.
- This machine may be subject to regulations when used on the public highway
- Before starting operating this machine you should be familiar with all controls and their functions. Familiarization should not be carried out during operation.
- The user is responsible for operating the unit in the work area.
- Standing in the danger area of the machine is forbidden!
- Look out for any children or animals in the work area.
- Operators are advised to wear clothing that is close fitting with stout footwear. Loose fitted clothes or casual footwear increase risk of accident
- All controls, engine and functions must be cleaned regularly.
- Do not leave the engine running in an enclosed area.
- Whenever handling fuel there is an increased risk of fire. Never refill near a naked flame or sparks, do not smoke whilst refilling the fuel tank.
- Before refuelling, turn the engine off, allow to cool down and take ignition keys out (if available).
- Keep machine clean to reduce the risk of fire
- When starting the engine all drives must be switched off
- Never leave the operator console while driving
- Never adjust the handlebar while engine is running
- Never leave the machine whilst engine is running.
- Close the fuel valve when machine is not in use.
- Apply parking brake (where fitted), when leaving, and minimize unauthorized use!
- Never leave the equipment unsupervised, when the engine is running.



## **2.2 Transporting**

When transporting this unit ensure all possible power is isolated disengaged and disabled.

Apply parking brake where fitted.

Secure the machine by use of bindings any transporting vehicle.

Only transport on vehicles designed for the use of transporting this type of equipment.

## 2.3 Safety

**Attention!** This machine is equipped with warning symbols (safety decals). Be aware of your safety at all times when operating a machine. Real security means that you are familiar with all safety decals. These decals indicate types and areas of endangerment and in particular the safety measure which should be taken. Always remain alert and conscious of the dangers the decals indicate on the machine, you are operating, presents to you and others. The decals must be maintained in good condition, they are important safety devices

The following decals are present on this machine:

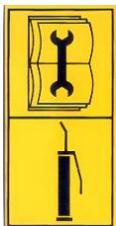


Read the safety manual carefully before start up.



Before repair, maintenance and cleaning

Turn off engine and pull out keys



Consider references in the technical manual.

Lubrication fitting



The risk by away-hurling parts with running engine.

Respect a safety margin from the machine

### **3 Basic Rules**



- Always use the machine across the slope in preference to going up and down
- Use extreme caution when changing direction on a slope
- Do not operate this machine on slopes of more than 20 degrees
- Humidity and rain increases the danger of slippage. Certain conditions may not permit safe handling of the machine
- Wear firm footwear with sufficient profile.
- Operate only in conditions where sufficient lighting exists
- Check terrain for hidden hazards prior to commencement of operation
- In the event of accidental impact with a foreign object, immediately stop the machine, including engine, and inspect for damage before continuing
- Never run whilst operating the machine
- Disengage drive to the attachment when transporting machine to and from area to be worked
- Never put hands or feet near or under rotating parts
- Prior to any maintenance or repair work ensure that all drives are in the neutral position, all switches are in the off position and for extra safety the spark plug lead should be removed

#### **3.1 Before starting**



- When starting the engine all drives must be disengaged – i.e. all drive leavers should be in the neutral rest position
- Never leave the operating position whilst machine is running
- Do not adjust handle bars when operating
- Do not operate the machine without all guards and safety devices being intact
- Keep hands and feet always from all rotating parts
- In the event of malfunction stop immediately

#### **3.2 Repair work**

- Repair work such as a welding, cutting or drilling must not be carried out on any safety relevant parts
- Damaged parts should be replaced with new before further use of the machine

#### **3.3 Maintenance**



- Examine the machine before start-up to ensure it is in a safe operating condition, paying particular notice to the security of all screw fittings
- Worn/damaged parts should be replaced as a safety precaution
- Cleaning should be carried out regularly to aid visual inspection of all working parts on the machine, including all safety devices, and to prevent fire hazards

- Cleaning, e.g. with a high pressure cleaner, should be accomplished in such a way that the water jet is not focused directly on rotating parts, lubrication points and electrical fittings.
- The machine should be maintained according to the instructions contained within the manual.
- Failure to comply with maintenance and operating instructions will cause the guarantee to be considered null and void

## **4 Disposal**

This device must be disposed of according to the regulation of the municipality or the country. All possible parts should be recycled and the remainder disposed of in a satisfactory manner.  
The company Kersten Maschinenvertriebs GmbH or Kersten (UK) Ltd does not take responsibility of disposal.

## **5 Warranty**

Details of Warranty are included on the warranty registration form.  
All conditions must be satisfied.

**IMPORTANT!** Please complete the warranty registration form enclosed and send it to:

**Kersten (UK) Ltd**  
Dfc[ fYgg'<ci gY  
' - '6ci 'hcb F cUX  
**Reading**  
**RG2 0NH**  
**0118 986 9253**

## 6 Specification

Type	
Engine	<p><b>-UBS 13</b> Honda four-cycle petrol engine 6.6 KW (9HP), low noise, low oil automatic shut off, regular grade unleaded petrol fuel</p> <p><b>-UBS 16</b> Briggs &amp; Stratton 11,8 KW (16HP) 2 Cylinder-Vanguard, low noise, regular grade unleaded petrol fuel</p> <p><b>-UBS 18</b> Briggsd &amp; Stratton (18) PS ) 2 Cylinder-Vanguard, low noise, regular grade unleaded petrol fuel</p>
Fuel Tank	10 litres
Electrical Start	Optional
Forward Driving Speed	0 – 5 KM/H
Backwards Driving Speed	0 – 5 KM/H
Hydraulic Oil Tank	10 litres
Hydraulic Oil	Avia syntofluid N68 (68 grade biodegradable oil)
Tyre	400 x 8 with optional 16 x 6.50-8 cleated Pattern
Tyre Pressure	Normal running pressure 15 psi + or – 2. NOTE: The tyre circumference must be checked to ensure both drive wheels are the same to enable straight steering
Parking Brake	where fitted. To transport, affecting both wheels
Wheel Weights	optional
Machine Weight	145 kg
Dimensions	Length 142cms width 75 cms height 115 cms
Noise Level	
Vibration	
additional equipment	
Attachments available	

## **1 Assembly**

### **1.1 Assembly attachments**

For the assembly of an attachment to the UBS 13Hydro or UBS 16Hydro must the clutch of the attachment and the photograph pipe in front **dirt-free and well greased** its.

The clutch of the attachment and the photograph pipe in front at the UBS 13Hydro or UBS 16Hydro must be on same height, in order to be able to push it together .

For this storage supports are present or as at that at some attachments

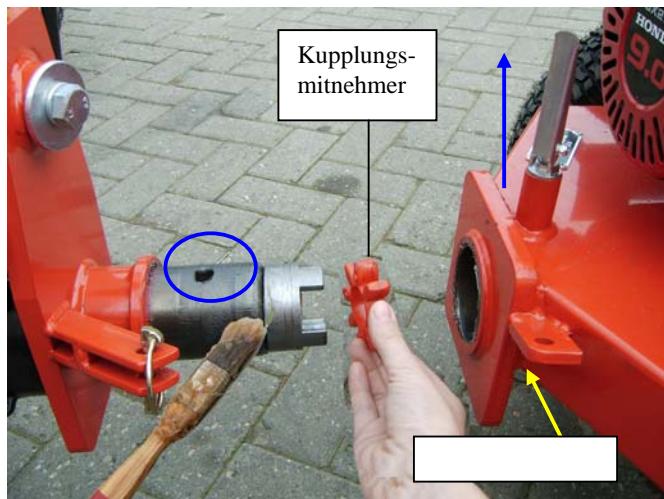
Sweeping machine of two gange wheels, at which the suitable height can be stopped.

When the assembling you should absolutely note that that **Kupplungsmitnehmer (red plastic star)** between clutch and photograph pipe lies.

The locking lever in front at the mounting plate of the UBS put up.

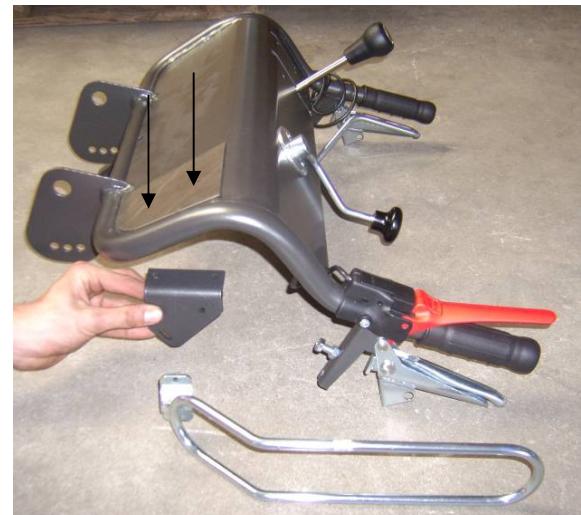
By engaging the attachment the stop of the lever locks.

Bitte beachten Sie auch unbedingt die Betriebsanleitung der Anbaugeräte.



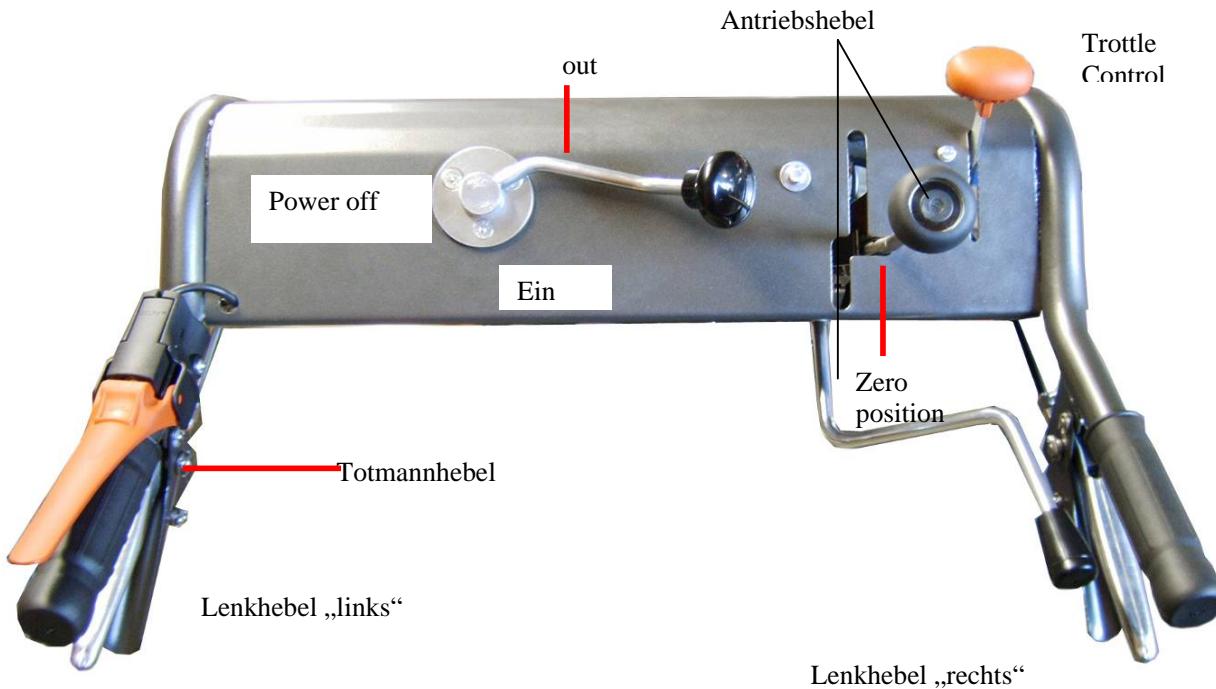
### **1.2 Handschutz**

- 1.** For the assembly of the left Handschutzes and two 6.5 mm of holes put the provided drilling template according to photo on the hand cross-beam to bore.
- 2.** The left attaching bracket also 2 screws M6 x 20, ever 2 Karosserie-scheiben and stop nuts/mothers screw on.
- 3.** The hand protection guard with 2 screws M6 x 20, ever 2 Karosseriescheiben and stop nuts/mothers fasten.
- 4.** The same work procedures for the assembly of the right Handschutzes implement.



## **Operation**

### **1.3 Operating instructions – power unit**



#### **Cannot be started:**



**Consider the respective operating instructions Briggs & Stratton or Honda of the engine for starting the engine.**

Am Verbrennungsmotor den Startschalter auf „Ein“ stellen und den Zapfwellen-hebel auf „Aus“ stellen. Den Benzinhahn öffnen und bei Kalt-Start den Chock ziehen. Den Motor starten.

For the working position the handwheel to Brake lowering valve underneath the switch housing to the right turn to a complete stop.

For the transport position e.g. Schieben ohne Motor, das Handrad am Bremssenkeventil nach links drehen bis zum Anschlag.

#### **Hand cross-beam adjustment:**

Drehen Sie links und rechts am Handholm die Schraube heraus und ziehen den Handholm in eine der drei positionen. Now you screw the two screws.

#### **Drives:**

To **Forward drive** the driving lever slowly from the Nullrastierung upward press. The further the faster the machine drives. (Speed regulation forward of steplessly of 0-5 km/h adjustable.)



The dead man lever at the left guidance cross-beam must be pressed, otherwise the ignition is interrupted.

To **backwards drive** the driving lever over the Nullrastierung down press. The further the faster the machine drives.

(Speed regulation backwards steplessly of 0-3 km/h adjustably.)

**Steer:**

By the individual wheel drive the wheels can turn differently fast and into different directions. It is possible to drive very close curves and to stop or backwards drive if necessary the machine rapidly.

Each pair of steering arms affects a common bowden cable of a control valve.

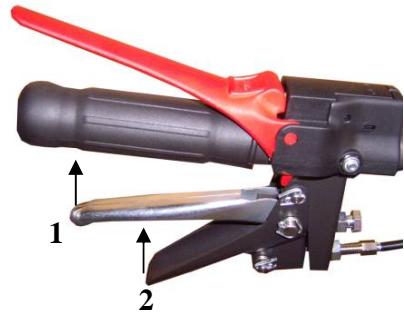
By pulling **Lever 1** (e.g. on that left side) becomes the wheel of this side more slowly to it to the stop comes (the machine drives to the left).

Through **simultaneous pulling** the left and right lever 1 comes the machine to **Stop**.

If the first lever rests against the hand cross-beam, can be operated by embracing with the hand of the levers .

2.

By pulling **Lever 2** (e.g. on the left side), the driving direction of the left Rades turns around. By simultaneous pulling of the left and right lever 2 the machine drives into the against set direction

**Power-take offs:**

By the rotation of the shift lever the power-takeoff is switched on to the left.

**The power-takeoff always slowly switch on.**

## **2 Maintenance**

### **2.1 Allgemeines**



**Note!**

**Injuries at persons or damages at the machine can occur. Examine before each employment of the machine all safety relevant parts and the hydraulic connections**

### **2.2 Maintenance**

- The machine must be submitted of regular maintenance..
- After execution of the work all dismantled protection must devices to be again duly attached.
- Examine after the first 5 operation hours all screwing and Pin connections. Oils and/or. lubricate all mobile parts.
- **Examine the hydraulic oil conditions:**  
If you let the attachment run briefly, unscrew the gas cap:  
The hydraulic oil must cover the horizontal knowing sheet metal in the tank minimum.  
Fill hydraulic oil if necessary **Avia Syntoluid 68** (biologically off buildable on ester basis) or identical oil of another manufacturer after.
- Examine before each employment the hydraulic packings for tightness.
- Hydraulic packings after 5 operation hours examine for the first time, if necessary pull tight. **Important note: Only pulling tight does not have a success!**  
**Eine undichte Hydraulikverschraubung bitte erst lösen, dann Schlauch or screw connection move. Now the screw connection can be tightened again.**

### **2.3 Daily maintenance**

- Examine before each employment the safety members and mobile parts on wear.
- Examine oil level and air cleaner of the engine. Further points see Manual of the engine.
- Examine the hydraulic packings and lines.
- Examine the air pressure of the drive wheels.
- Führen Sie vor jedem Einsatz einen Probelauf durch.
- Clean after each employment the equipment.



- **Below the equipment admission at the basic equipment is a lubrication fitting, this regularly lubricates.**

- Kehrwalzen: Zur Lagerung beide Stützen hochdrehen, dabei unbedingt die Skaleneinteilung beachten, damit die Kehrwalze gleichmäßig entlastet ist.
- Seitenbesen: Nur im ausgehobenen Zustand lagern.

## **2.4 Wartung nach 20 bzw. 100 Betriebsstunden oder längerer Stillstandszeit**

- In regular distance as well as always to beginning of season and - end must the mobile parts of the equipment be greased or oiled.
- **Oil change combustion engine:**  
The instructions for inspection for the combustion engine take it please from the manual of the engine.
- **Hydraulikölwechsel:**  
For the first time after 20 operation hours, then all 100 operation hours.  
The tank seizes 11.5 litres hydraulic oil.  
Used type of oil: **Avia Syntoluid 68** (biologically degradably up Ester basis) or identical oil of another manufacturer use.  
Hydraulic oil filter changes in the same time interval as oil changes make.
- **V-belt tension:**  
In regular intervals the V-belt tension must be examined.  
These can control you as follows: If the shift lever stands above for the power-takeoff on the switch housing on „, then the idler must have for instance a distance from 5 - 7 mm to the engine wheel. Placing behind is possible over the adjusting nipple of the bowden cable.

### **note:**

After strong load of the power unit the machine approx. 5 minutes in the lowest idling speed to run leave, in order to avoid a burning of the drive belt and to achieve a slow cooling from drive belts and engine to!

### **3 Conformity explanation**

Conformity explanation of the manufacturer (article 8 of the guideline 98/37/EG)  
We,

**Kersten of machine selling GmbH**  
**Empeler road 93-95**  
**D - 46459 Rees**  
explain that the machine:  
Self-propelled Einachser

Trade mark: **Kersten**  
Manufacturer designation: **UBS 13Hydro, UBS 16Hydro, UBS 18Hydro**

with the following EEC guidelines agrees:

98/37/EG

**Maschinen-Nummer:** \_\_\_\_\_

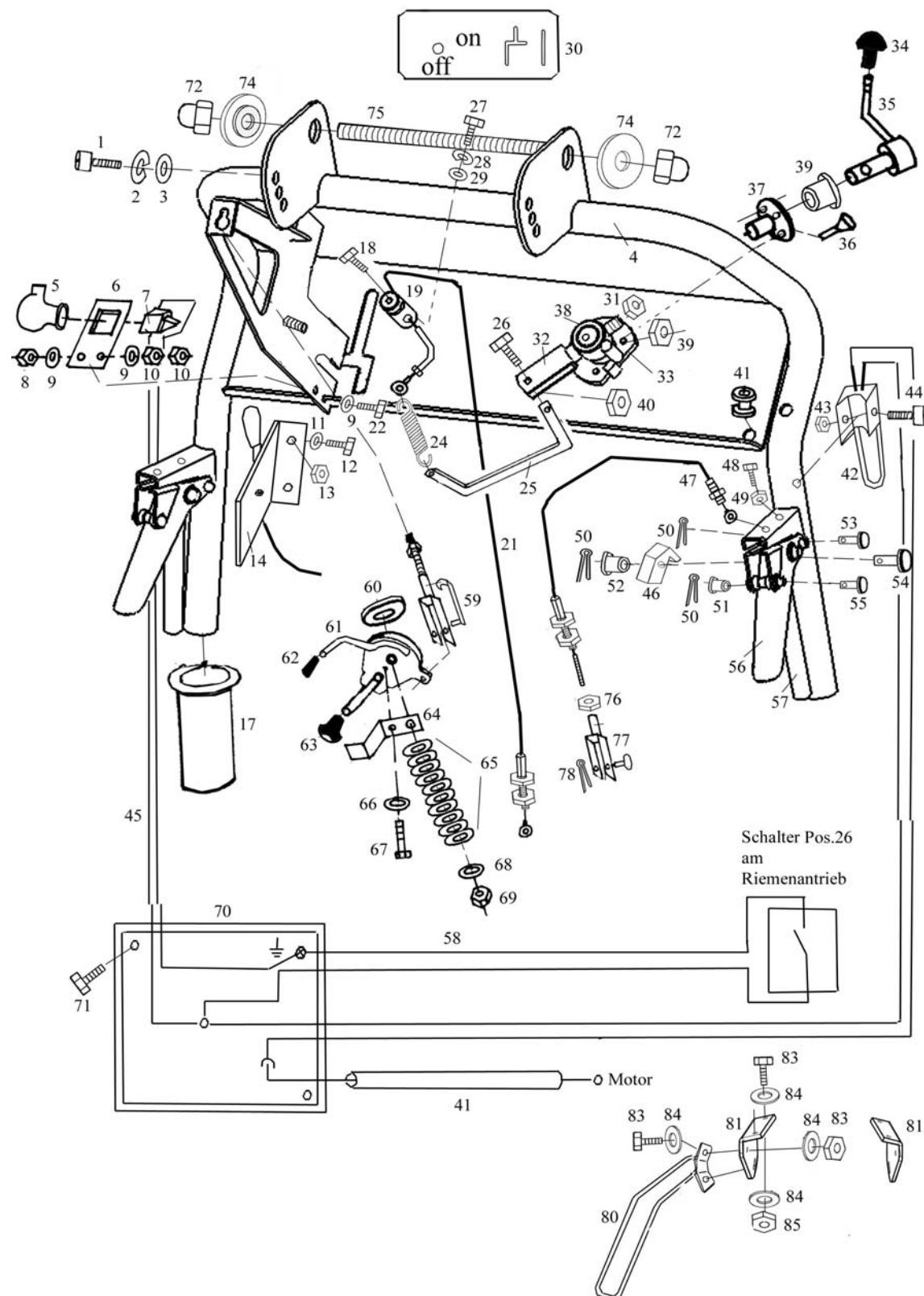


Rees, den 26.04.05

Dipl.-Ing. Georg Kersten  
Geschäftsführer

# 1. Handle Bar UBS 13, 16, 18 hydraulic

Stand: 09.08.07



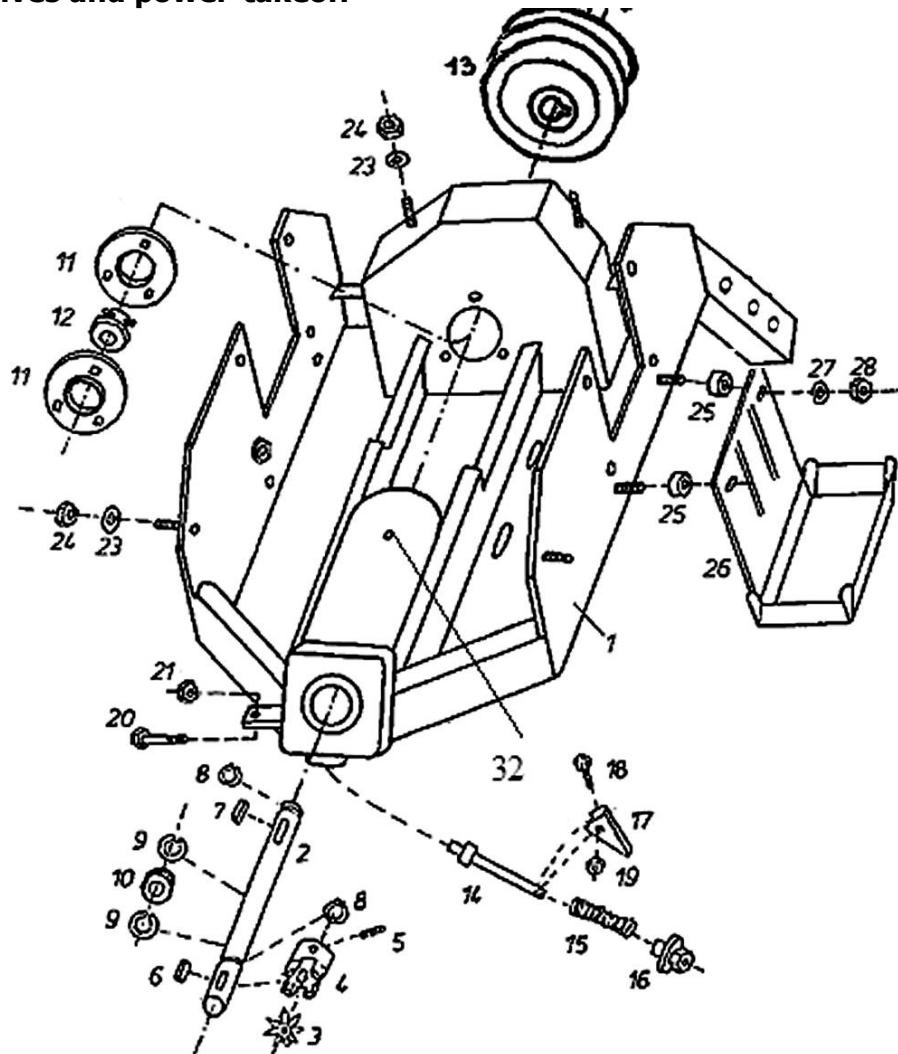
## 1. Handholm UBS 13, 16, 18 Hydro

Stand: 09.08.07

Nr.	Bestellnr.	Anz	Bezeichnung
1	901 810 016	2	Imbusschraube
2	905 010 000	2	Federring
3	905 110 000	2	Unterlegscheibe
4	767 000 037	1	Handholm
5	960 041 000	1	Polkappe
6	767 000 017	1	Schalterhalblech
7	941 903 000	1	Schalter
8	900 006 002	2	Stoppmutter
9	905 106 000	6	Unterlegscheibe
10	900 006 001	4	Mutter
11	905 105 000	4	Unterlegscheibe
12	901 005 016	2	Schraube
13	900 005 002	2	Stoppmutter
14	941 920 108	1	Gasregulierhebel mit Bowdenzug
17	941 908 015	2	Handgriff ( Gummi )
18	901 006 016	1	Schraube
19	767 000 067	1	Bowdenzughalter Nebenantrieb
21	700 000 319	1	Bowdenzug 1090 mm außen, 1335 innen, bei Montage mit Zugfeder,
	bis Maschnr. 37 322 noch keine Zugfeder vorhanden, dann Pos. 24 + 21 schicken		
22	901 006 030	2	Schraube
24	909 100 162	1	Zugfeder, ab Maschnr. 37 323
25	767 000 062	1	Rasthebel
26	901 005 020	1	Schraube
27	901 006 016	1	Schraube
28	905 006 000	1	Federring
29	905 106 000	1	Unterlegscheibe
30	713 049 301	1	Bedienfeldaufkleber fünfsprachig
31	900 008 002	1	Stoppmutter
32	767 000 021	1	Gabelgelenk
33	767 000 068	1	Anschlagplatte Nebenantrieb
34	941 267 710	1	Pilzgriff rund, M10
35	767 000 002	1	Mähwerkshebel
36	901 206 016	3	Senkkopfschraube
37	767 000 004	1	Rosette
38	767 000 005	1	Buchse für Mähwerksstrebe
39	915 021 020	1	Gleitlager mit Bund
40	900 004 002	1	Stoppmutter
41	767 000 076	1	Leitung 1-adrig 41 cm mit Schutzschlauch 34 cm lang
42	941 902 003	1	Totmannhebel
43	900 006 002	1	Stoppmutter
44	901 806 040	1	Innensechskantschraube
45	767 000 074	1	Leitung 2-adrig 127cm

Nr.	Bestellnr.	Anz	Bezeichnung
46	014 005 205	2	Mitnehmer für Lenkhebel
47	767 000 072	2	Bowdenzug Lenkung 500 mm außen, 685 mm innen
48	901 008 025	1	Schraube
49	900 008 001	1	Mutter
50	907 225 020	6	Splinte 2,5 x 20
51	767 000 070	2	Führungshülse 6,5 mm innen
52	767 000 071	2	Führungshülse 10 mm innen
53	767 000 064	2	Bolzen 7 Ø x30 mm
54	767 000 065	2	Bolzen 10 Ø x 26 mm
55	767 000 066	2	Bolzen 6,5 Ø x 22 mm
56	757 000 069	2	Lenkhebel (außen)
57	770 000 010	2	Doppelter Lenkhebel (innen)
58	767 000 075	1	Leitung 2-adrig 54 cm
59	940 001 500	1	Bowdenzug zum Fahrhebel, komplett mit Gabelgelenk, ein Ende mit Langloch
60	950 767 001	1	Bremsscheibe
61	767 000 013	1	Fahrhebel
62	767 000 020	1	Gummikappe
63	941 264 510	1	Pilzgriff lang,
64	767 000 014	1	Andrückfeder
65	909 016 826	10	Tellerfegerscheiben
66	905 106 000	1	Unterlegscheibe
67	901 006 010	1	Schraube
68	905 108 000	1	Unterlegscheibe
69	900 008 002	1	Stoppmutter
70	961 070 025	1	Verdrahtungsdoose 50 x 45 x 30 mm
71	901 004 012	2	Schraube
72	900 012 003	2	Hutmutter
74	767 000 028	2	Buchse 30 Ø x 7
75	700 000 082	1	Gewindestange
76	900 006 001	2	Mutter
77	908 406 024	2	Gabelgelenk 6 x 24 mit Stift
78	907 216 016	2	Splint 1,5 x 15
80	767 000 039	2	Handschutz KM Basis Gerät
81	767 000 040	1	Satz (links und rechts) Halter Handschutz
82		1	Bohrsablonen
83	901 006 020	4	Schraube
84	905 206 000	8	Karosseriescheibe
85	900 006 002	4	Stoppmutter

## 2. Drives and power-takeoff

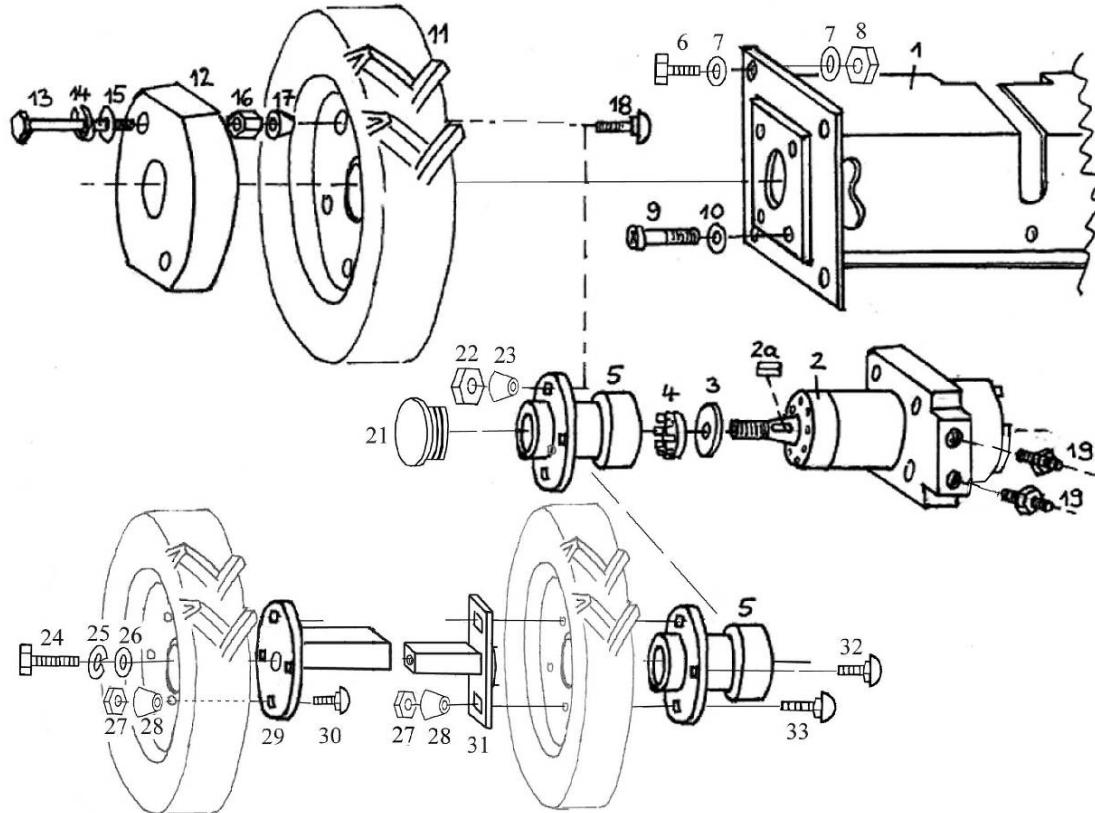


Nr.	Bestell. – Nr.	Anz	Bezeichnung
1	702 000 010	1	Grundgehäuse
2	702 000 026	1	Antriebswelle
3	925 302 098	1	Kupplungs- mitnehmer
4	925 301 025	1	Kupplungsteil
5	902 306 020	1	Schraube
6	908 008 725	1	Passfeder
7	908 008 730	1	Passfeder
8	906 000 250	2	Seegerring
9	905 952 000	2	Seegerring
10	924 106 205	1	Lager
11	924 200 205	2	Lagerschale
12	924 100 205	1	Lager
13	921 240 201	1	Doppelriemenscheibe
14	700 000 170	1	Sperrstift
15	909 100 189	1	Druckfeder

Nr.	Bestell. – Nr.	Anz	Bezeichnung
16	700 000 171	1	Stopfen
17	700 000 172	1	Sicherungshebel
18	901 005 020	1	Schraube
19	900 005 002	1	Stoppmutter
20	901 110 040	1	Schraube
21	900 010 001	1	Mutter
22			
23	950 261 815	4	Scheibe
24	900 006 002	4	Stoppmutter
25		4	Buchsen
26		2	Kotflügel
27		4	Unterlegscheibe
28		4	Stoppmutter
29	901 112 070	4	Schraube
30	905 112 000	4	Unterlegscheibe
31	900 012 002	4	Stoppmutter
32	910 006 000	1	Schmiernippel M6

### 3. Lenkhilfemotoren, Zwillingsbereifung, Radgewichte

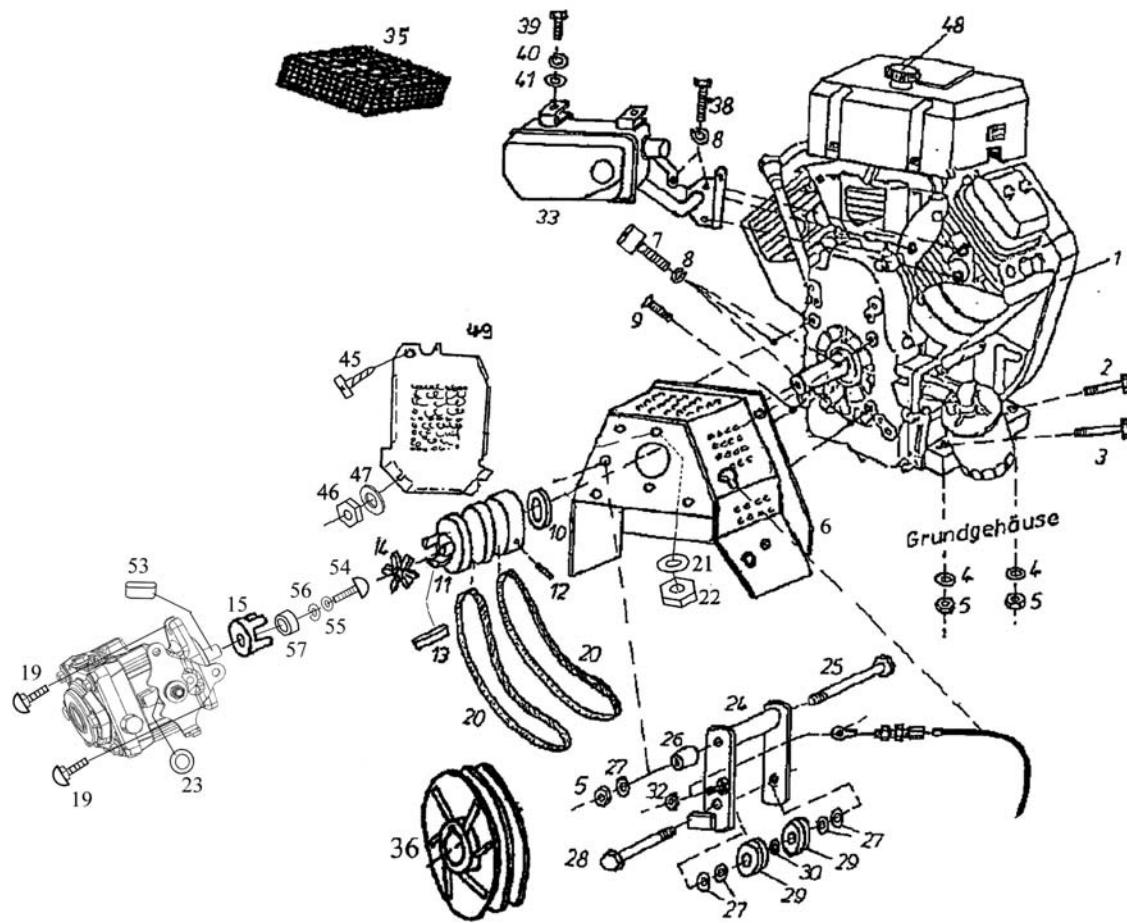
Stand: 08.06



Nr.	Bestell – Nr.	Anz	Bezeichnung	Nr.	Bestell – Nr.	Anz	Bezeichnung
1a	702 000 035	1	Achsträger 635 mm	17	906 412 000	8	Konischer Federring
2-4	935 102 315	2	Radmotor, komplett	18a	901 912 040	4	Schlossschraube
2a	908 005 514	2	Passfeder 5x5x14	18b	901 112 060	4	Schraube (mit Radgewichten)
3	905 121 444	2	Scheibe DA44/21x4	19	931 071 212	4	Hydraulik-verschraubung
4	900 018 012	2	Kronenmutter M18	20	937 121 015	4	Dichtring Kupfer
5a	767 410 006	2	Radnabe 4.00 x10	21	943 400 048	2	Lamellenstopfen
5b	767 187 006	2	Radnabe 18 x 7.00-8	22	900 012 001	4	Mutter
6	901 008 020	8	Schraube	23	906 412 000	8	Konischer Federring
7	905 108 000	8	Unterlegscheibe	24	901 016 150	1	Schraube
8	900 008 002	4	Stoppmutter	25	905 016 000	1	Federring
9	902 210 030	8	Imbusschraube	26	905 116 000	1	Unterlegscheibe
10	905 010 000	8	Federring	27	900 012 001	8	Mutter
11a	926 140 408	2	Reifen Blockprofil 4.00-8	28	906 412 000	16	Konischer Federring
11b	126 110 408	2	Ackerstollenprofil 4.00-8 AS	29a	767 510 006	1	Radnabe für Zwillingsbereifung 4.00-8
11c	926 130 168	2	Reifen Blockprofil 16 x 6.50-8	29b	767 520 006	1	Radnabe für Zwillingsbereifung 16x6,5-8
11d	926 110 168	2	Ackerstollenprofil 16 x 6.50-8 AS	30	901 912 040	4	Schlossschraube
12	945 104 008	2	Radgewichte	31	767 500 006	1	Anbauflansch für Zwillingsbereifung
13	901 112 100	4	Schraube	32	901 912 040	2	Schlossschraube
14	905 012 000	4	Federring	33	901 912 050	2	Schlossschraube
15	905 112 000	4	Unterlegscheibe				
16	902 812 040	4	Gewindemutter				

## 4. Engine

Stand: 10.08.07



#### 4. Engine

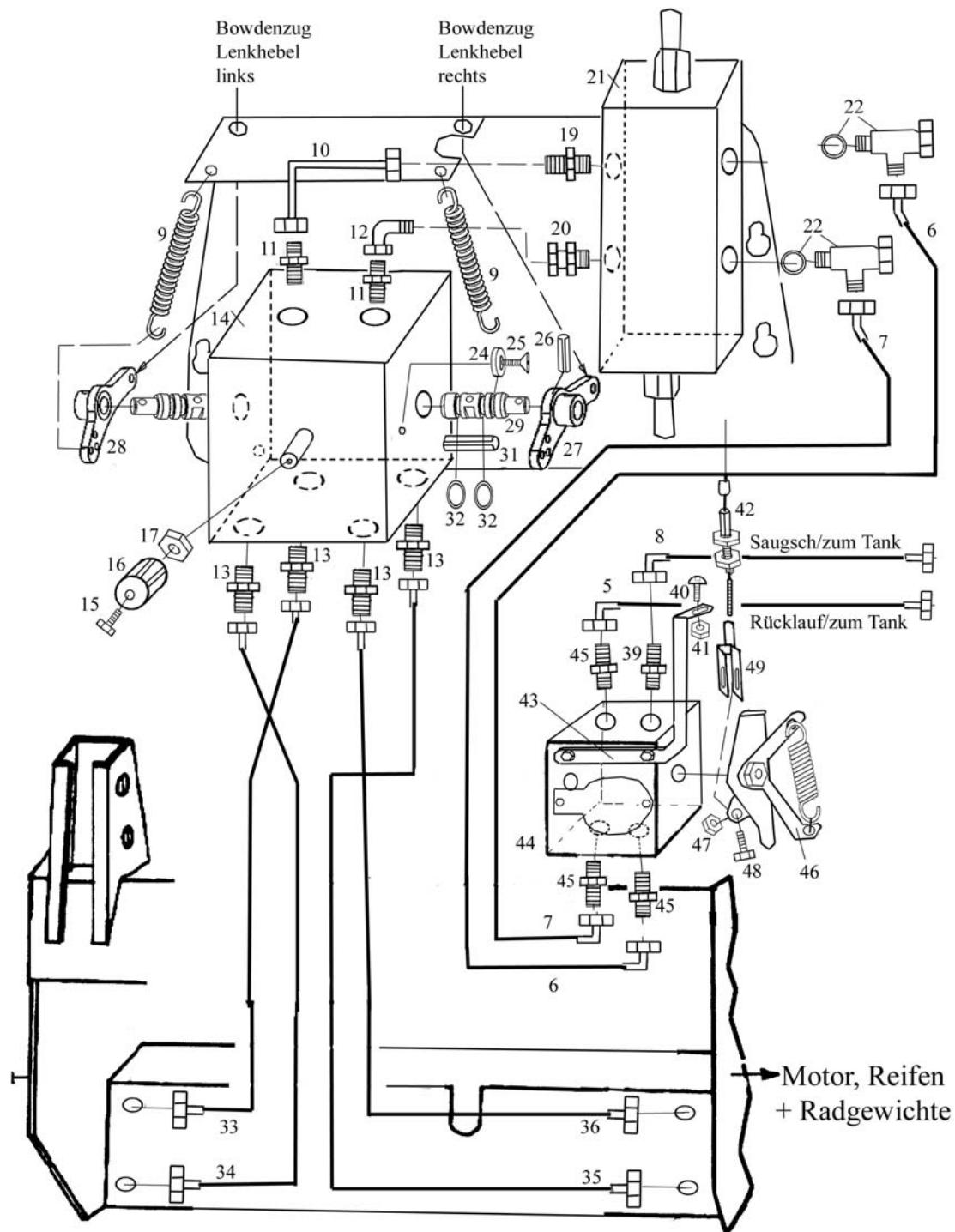
Stand: 11.08.07

<b>No.</b>	<b>product no</b>	<b>qua</b>	<b>description</b>
1a	920 000 003	1	Honda engine 13 HP
1b	920 000 008	1	Briggs & Stratton Motor 16 PS
1c		1	Briggs & Stratton Motor 18 PS
1d	920 000 118	1	Briggs & Stratton Motor 18 PS with electric start
2a	901 010 045		Screw for Honda - engine
2b	901 110 040	2	Screw for Briggs & Stratton
3	901 110 045	2	Screw
4	905 210 303	4	Karosseriescheibe
5	900 010 002	5	Stop nut
6	702 001 030	1	Pump owner for UBS hydraulic 13, 16, 18 (with 2 square holes),
7	901 808 020	3	Socket-head cap screw
8	905 008 000	9	lock washer
9	901 208 016	1	Countersunk screw
10	705 350 504	1	Shim D25,4
11a	925 104 024	1	Clutch wheel Honda engine
11b	925 304 080	1	Clutch wheel Briggs&Stratton
12	902 306 020	1	set screw
13	908 006 650	1	Parallel key
14	925 102 064	1	Clutch driver
15	<b>700 802 048</b>	1	Clutch hub pumping side starting from machine no. 34 817
16	<b>934 100 004</b>	1	Axial-piston pump clockwise rotatingsly starting from machine no. 34 817
17	931 071 538	1	Hydraulic screw connection
18	931 071 238	1	Hydraulic screw connection
19	901 910 035	2	lock screw
20a	921 106 934	2	Drive belt for Honda
20b	921 100 872	2	Drive belt for Briggs&Stratton

<b>No.</b>	<b>product no.</b>	<b>qua</b>	<b>description</b>
21	905 110 000	2	wearing part
22	900 010 002	2	Stop nut
23	294 412 255	1	Rotary shaft seal
24	702 000 040	1	Idler owner
25	901 110 120	1	Screw
26	705 200 528	1	spacer
27	905 110 000	5	wearing part
28	902 738 212	1	Screw 3/8" x 2 1/2"
29	921 313 718	2	Drive belt idler
30	906 210 201	1	Close tolerance spacer
32	900 006 002	9	Stop nut
33	920 001 006	1	muffler
35a	920 803 074	1	Honda-Motor grill
35b	920 001 009	1	Briggs&Stratton grill
35c	920 001 006	1	muffler für Briggs&Stratton
36	921 240 201	1	doubled wheel
38	902 751 612	6	Screw
39	901 006 012	6	Screw
40	905 006 000	10	lock washer
41	905 206 000	10	Karosseriescheibe
42	901 006 020	4	Screw
43	900 006 001	2	nut
44	705 200 507	2	spacer
45	902 642 018	1	tapping screw
46	900 006 002	2	Stop nut
47	905 206 000	2	Karosseriescheibe
48	920 003 006	1	Gas cap
49	<b>700 802 047</b>	1	Drive belt protection starting from machine no. 34 817
50	938 702 000	1	oil cooler
51	702 002 046	1	oio cooler protection
52	905 106 000	12	wearing part
53	908 018 014	1	parallel key 3,17 x 3,17 x 14 mm
54	902 758 103	1	tariff screw
55	905 105 000	1	wearing part
56	905 005 000	1	lock washer
57	700 000 318	1	Socket, starting from machine no. 37 227 July 2007

## 5. Hydraulic lines (with variable flow pump) ab 02.07

Stand: 29.01.08



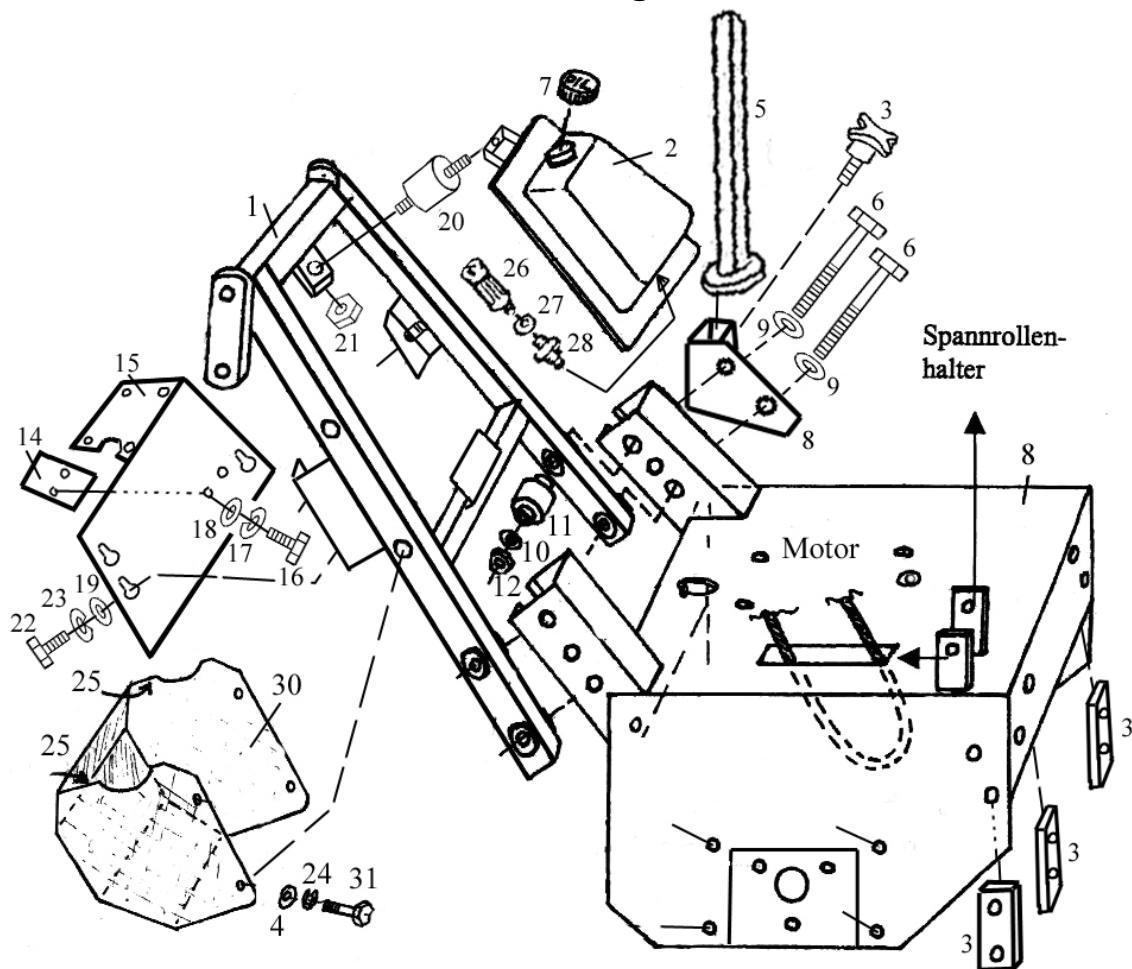
## 5. Hydraulic lines (with variable flow pump) ab 02.07

Stand: 29.01.08

<b>No.</b>	<b>product no</b>	<b>qua</b>	<b>description</b>	<b>no.</b>	<b>product no.</b>	<b>qua</b>	<b>description</b>
5	937 767 712	1	hydraulic hose 290 mm	27	767 000 043	1	rocker right
6	937 767 718	1	hydraulic hose 540 mm	28	767 000 042	1	rocker left
7	937 767 713	1	hydraulic hose 640 mm	29	934 101 001	2	Piston hydraulic pro
8	937 767 711	1	hydraulic hose 350 mm	31	907 350 036	2	clamping sleeve 5 x 36
9	909 200 021	2	tension spring	32	937 125 030	4	O - Ring
10	767 000 080	1	hydraulic line	33	937 767 714	1	hydraulic hose 770 mm
11	931 071 238	2	Hydraulic screw connection	34	937 767 715	1	hydraulic hose 790 mm
12	931 061 200	1	Hydraulic screw connection	35	937 767 716	1	hydraulic hose 810 mm
13	931 111 538	4	Hydraulic screw connection	36	937 767 717	1	hydraulic hose 800 mm
14a	767 000 046	1	Hydraulic block  Hydraulic pro	39	931 071 271	1	hydraulic screw connection 12 / 7/16
14b	936 202 075	1	Rule cartridge completely	40	903 920 610	1	dome head screw
14c	937 300 075		Sealing set for rule cartridge	41	900 006 002	1	Stop nut
15	901 005 010	1	screw	42	940 700 900	1	Bowden cable drives 900 mm, blue
16	941 400 015	1	Rotary button blue	43a	767 000 044	1	Bowden cable owner at variable flow pump, with 8 L tank to MN 34523
17	900 005 001	1	nut	43b	700 000 252	1	Bowden cable owner at variable flow pump, at 10,5 L tank starting from MN 34524
19	931 071 238	1	Hydraulic screw connection	44	934 100 003	1	Axial-piston pump left turning
20	931 031 238	1	Hydraulic screw connection	45	931 071 291	1	Hydraulikverschraubung 12 / 9/16
21	936 612 563	1	Brake lowering valve	46	934 101 000	1	Zero plate completely, with feather/spring
22	931 171 038	2	Hydraulic screw connection	47	900 008 002	1	Stop nut
24	936 401 001	2	Wearing part for valve (brass)	48	901 108 020	1	Screw
25	901 205 012	2	Countersunk screw	49		1	Forked link with slotted hole
26	907 350 020	2	Clamping sleeve 5 x 20				

## 6. Guidance cross-beam and basis housing

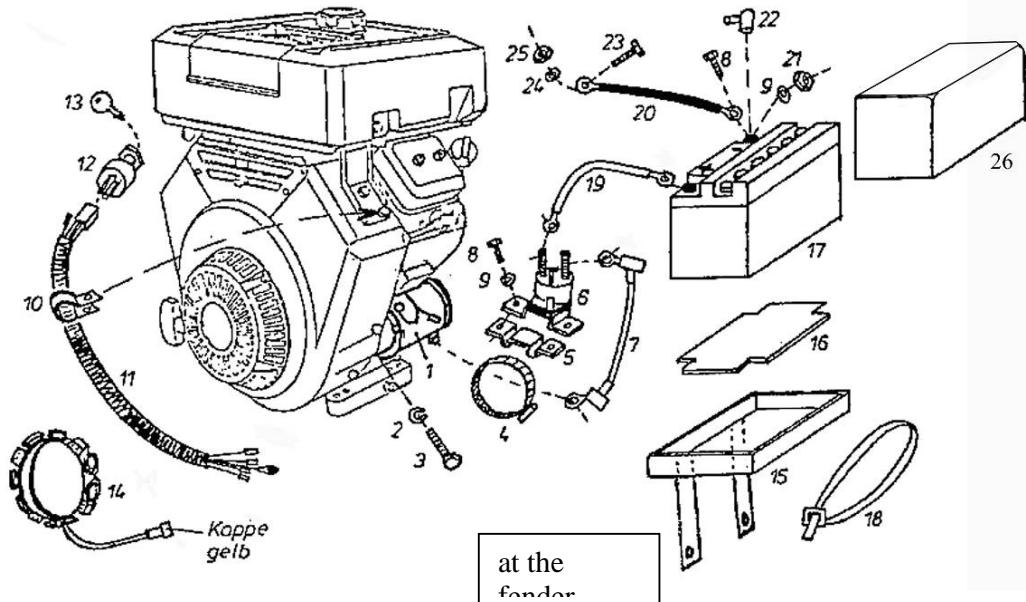
Stand: 29.01.08



No.	product no.	qua	description
1	770 000 050	1	Guidance cross-beam 2006
2	700 000 070	1	Tank of 10.5 litres
3	941 241 025	1	Stengriff
4	905 106 000	4	wearing part
5	700 100 155	1	storage support
6	901 012 070	2	Screw
7	931 200 042	1	vent screw
8	700 030 158	1	Retaining plate for storage support
10	905 112 000	8	wearing part
11	911 301 244	4	Oscillation element
12	900 012 002	4	Stop nut
13	901 012 070	2	Screw
14	770 000 030	1	Retaining plate valve support
15	77 000 040	1	Mounting plate
16	901 008 025	2	screw
17	905 008 000	2	lock washer

No	product no	qua	description
18	905 108 000	2	wearing part
19	905 106 000	3	wearing part
20	911 006 015	1	Rubber - metal buffer M6 15 mm Ø
21	900 006 002	1	stop nut
22	901 006 020	3	screw
23	905 006 000	3	lock washer
24	905 006 000	4	lock washer
25	950 040 336	m	Piece of edge protection of meter goods
26	937 200 010	1	Filter in the tank
27	937 158 003	1	O-ring in the tank
28	110 000 135	1	Filter carrier in the tank
30	770 000 020	1	Hood hydraulic pro steering element
31	901 006 025	4	screw

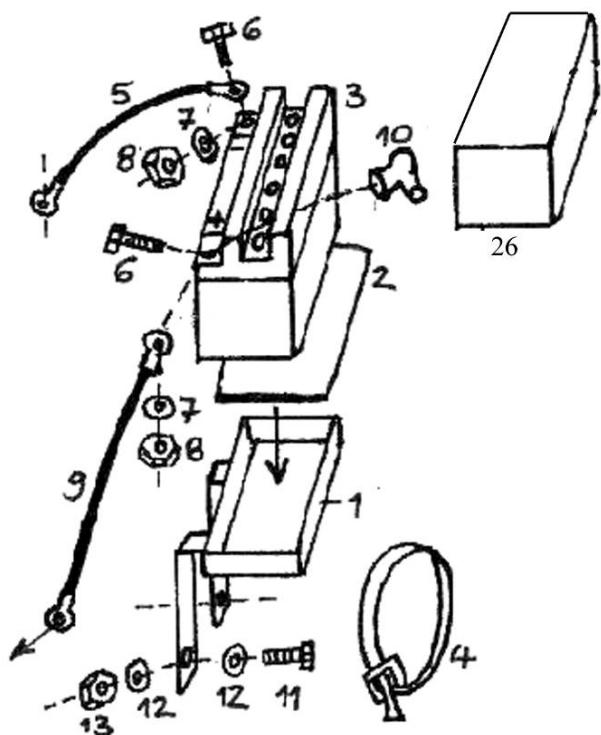
## 7. Electrical start for Briggs & Stratton 16 HP and 18 HP Stand: 10.06



No.	Product no.	qua	description
1	920 006 006	1	Electric -Starter
2	905 008 000	2	lock washer
3	901 008 025	2	Screw
4	920 007 006	1	pipe clamp
5	920 008 006	1	Starter support
6	920 009 006	1	Solenoid coil
7	920 010 006	1	starter cable
8	901 006 016	4	Screw
9	905 106 000	4	wearing part
10	908 608 018	1	Tubing rubber clip
11	920 011 006	1	wires
12	920 012 006	1	starting lock
13	920 013 006	1	key

No	Product no.	qua	description
14	920 015 006	1	light coil
15	702 002 301	1	Battery box
16	700 000 305	1	Battery edition
17	960 011 218	1	Battery
18	960 031 000	1	Battery volume
19	960 022 308	1	Battery cable, plus
20	960 021 308	1	Battery cable, minus
21	900 006 001	2	nut
22	960 041 002	2	Pole cap
23	901 008 020	1	Screw
24	905 208 000	1	Karosseriescheibe
25	900 008 001	1	nut
26	960 031 001	1	Battery cover from Planenstoff

## 8. Electrical start for Honda engine 9.6 KW (13PS)



No.	Product no.	Qua	Description
1	765 002 301	1	Battery box to Housings install
2	765 000 305	1	Battery edition
3	960 011 218	1	Battery
4	960 031 000	1	Battery volume
5	960 021 308	1	Battery cable (minus)
6	901 006 016	2	Screw
7	905 106 000	2	Wearing part
8	900 006 001	2	Nut
9	960 022 950	1	Battery cable (plus)
10	960 041 000	3	Pole cap
11	901 008 025	2	Screw
12	905 108 000	4	wearing part
13	900 008 002	2	Stop nut
22	700 000 211	1	Set of cables for E-start
26	960 031 001	1	Battery cover