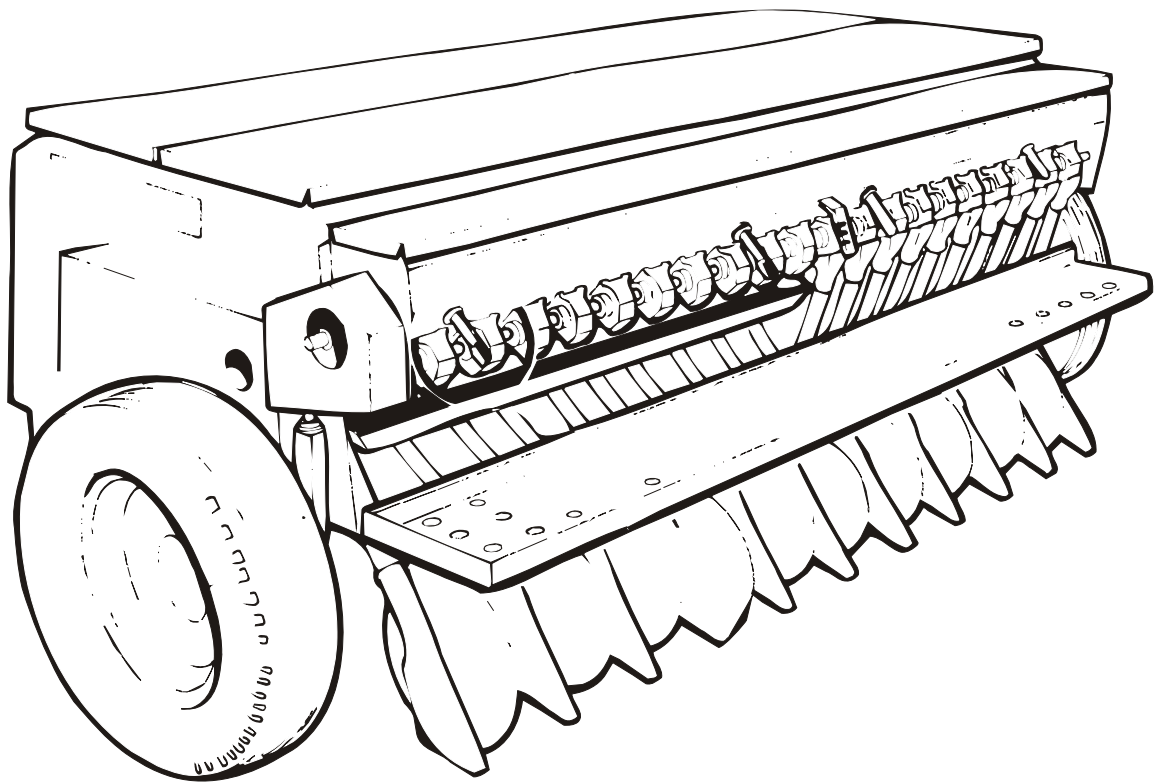


Junkkari

SMALL SEED BOX 130004/124300



User manual Spare part list

PSL08EN

Junkkari Oy
62375 YLIHÄRMÄ FINLAND
TEL. +358-(0)10-480 2200
e-mail: junkkari@msk.fi

ENGLISH 

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1. DEAR CUSTOMER

We thank You for the trust you have shown and wish You success in Your work.

Please familiarise yourself with this manual, because perfect knowledge of the machine, right adjustments, and careful maintenance guarantee the safety of the operator and the continuous operation of the machine on busy workdays.

It is important that every section in this manual is understood and that the instructions are followed. In unclear cases, please contact the vendor of the machine.

We hope that after you have familiarised yourself with the manual, you will return the signed guarantee certificate to the factory.

WARNING!

This manual is intended as an addition to the Junkkari Simulta-manual. The instructions for Junkkari Simulta:



- 4. SAFETY INSTRUCTIONS
- 6.2 LIMITATIONS OF USE AND FORBIDDEN USES
- 8. TRANSPORT, HANDLING, AND STORAGE OF THE MACHINE
- 9 PUTTING THE MACHINE IN WORKING ORDER
- 9.6 DISPOSING OF THE PACKAGING
- 13 LUBRICATION DIAGRAM
- 14 MAINTENANCE
- 15 STORAGE
- 16 TROUBLESHOOTING CHART
- 17 ENDING THE USE OF THE PRODUCT
- 18 TERMS OF GUARANTEE
- 19 AREAS OF RESPONSIBILITY

are fully applicable to the SMALL SEED BOX.

Before installation and use, familiarise yourself with the corresponding instructions for the seed and fertilizer drill.

2 TECHNICAL SPECIFICATIONS

	S2500	S3000
PRODUCT NUMBER	130004	124300
WEIGHT/kg	65	75
VOLUME/l	85	101
CALIBRATION TO TRAYS	YES	YES
MIXING AXLE	YES	YES
BOTTOM CONES	YES	YES

3. GENERAL INFORMATION

PURPOSE OF USE

The small seed sowing device is used for the sowing of various small seeds and small seed mixes.

When the device is connected with the Simulta-seed and fertilizer drill, the small seeds can be sown at the same time as the fertilizer and the grain. The device is compatible with the 1987 model and the newer.

APPLICATIONS

The small seed sowing device can be altered for start fertilization with the additional parts from the package. The start fertilizer kit is compatible with the -87 model and the newer . More accurate instructions about use and installation can be found later in this booklet. With other applications it is best to consult an expert.

4. OPERATING PRINCIPLE

The Simulta small seed sowing device gets its power through chains from the drive unit of the seed drill. The device has the same accurate feeder mechanism as the Simulta seed and fertilizer drill. The feed amount is adjusted with the set wheel located at the right end of the device. The mixer in the device's tank mixes the seeds to prevent sorting. The mixer can be turned off for start fertilizer sowing. The tank has fluted feed cups at the bottom, which enable the complete emptying of the tank. Unwanted seed shifting caused by the quick turns of the seed and fertilizer drill is also reduced.

A calibration can be performed into the calibration troughs of the seed drill by dropping the two-part hopper down, so that the stopper bars of the hopper shaft function as the supports for the trough. The hopper shafts can be removed conveniently, making calibrating the seed side easier.

5 PACKAGE

The package includes attachment parts for the -87 and newer seed and fertilizer drill models.:

-Small seed box	1 pcs
-Hoppers	2 pcs
-Chains	
-chain 1/2"	70+32 roll
-link 1/2"	2 pcs
-Link	1 pcs
-Pins	4 pcs
-manual	

6 INSTALLATION

At least two persons are needed for the installation or a suitable crane must be used. The Simulta small seed sowing device is installed by aligning the four holes at the ends of the device with the corresponding holes at the back of the seed and fertilizer drill. Attachment is secured with pins.

The chains from the package are assembled in the correct length from pieces according to the chart below.

Model 1987-

S 2500 NL/KH chain length 70 roll

S 2500 H/T

S 3000 H/T

S 4000 H/T

chain length 102 roll

(70+32)

Model 1979-1986

S 250 / S 300 NL

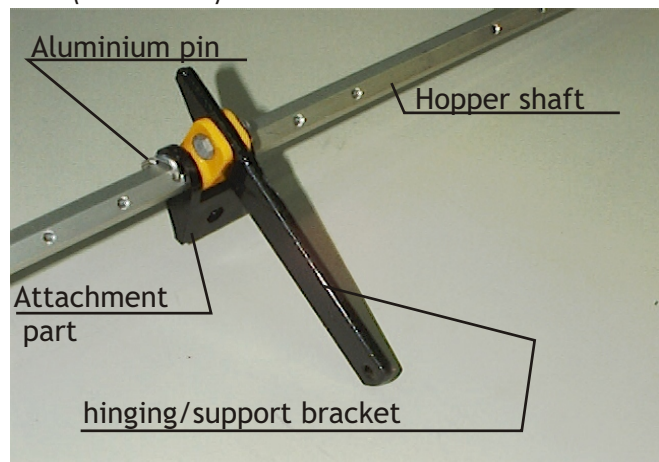
chain length 116 roll

(70+32+14)

ASSEMBLING THE HOPPERS

PACKAGE CONTAINS:

- 2 pcs hopper shaft
- 20 pcs(S2500)
- 24 pcs(S3000)
- 34 pcs(S4000)hoppers
- 4 pcs support (plastic black)
- 4 pcs hinging/support bracket
- 4 pcs attachment part
- aluminium pins

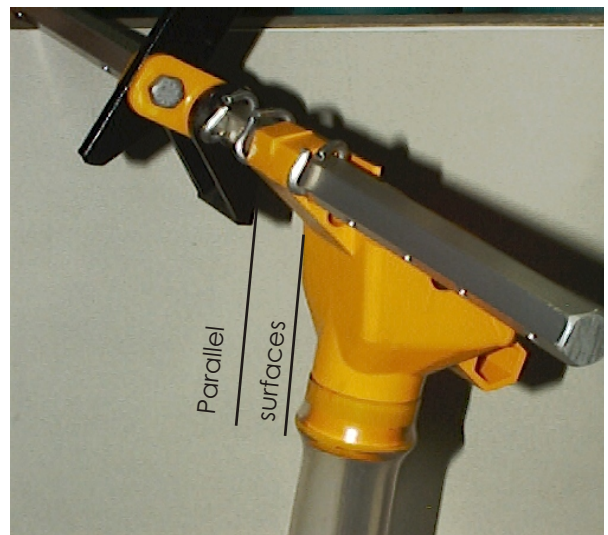
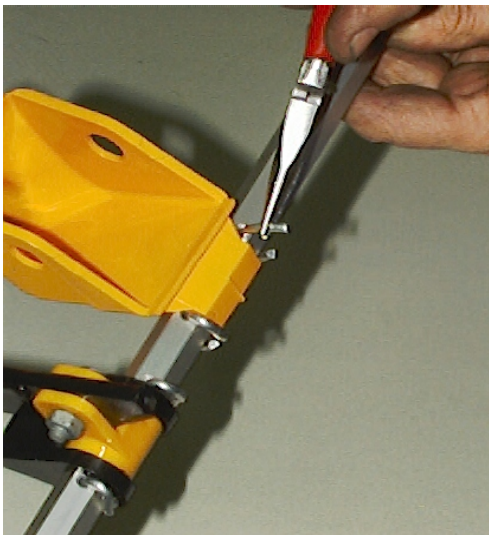


ASSEMBLING THE HOPPERS

To make assembly easier, the hinging/support bracket and attachment part have already been attached to the hopper shafts like in picture 1 on the next page.

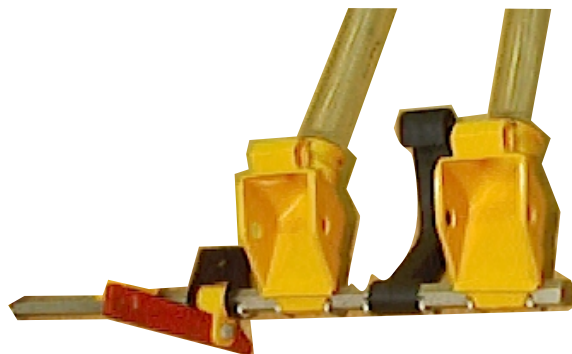
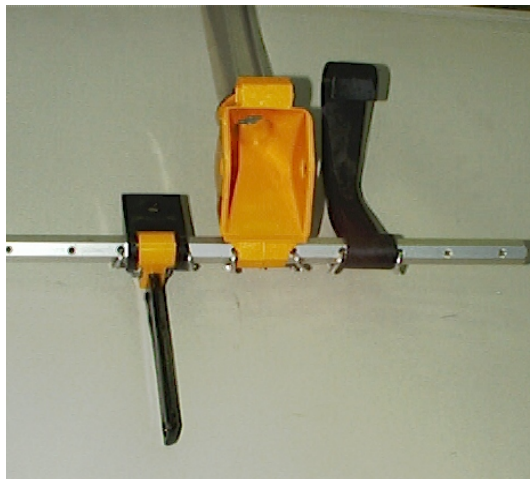
It is recommended that you start assembly from the shorter end of the hopper shaft, as shown later, after which the hopper shaft can be directly tried out in its place and correct assembly can be made sure of.

The hoppers are installed as shown. It is important that the hoppers are in the right



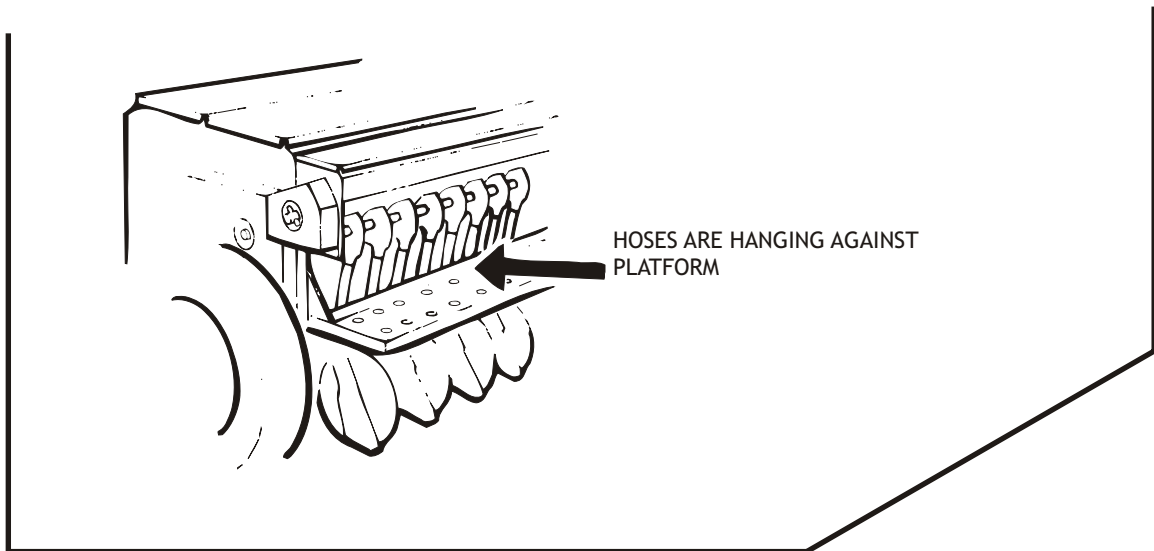
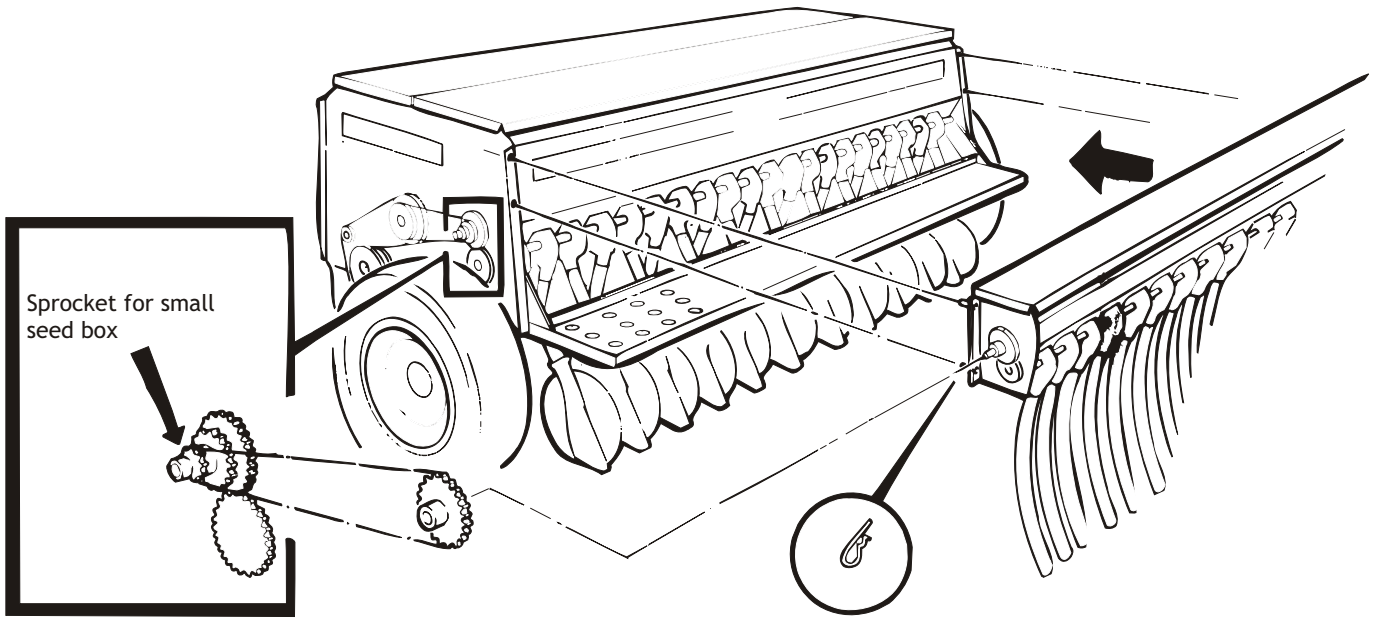
After this, the supporter and the outer hopper of the hopper shaft are installed as in the picture below. The hopper shaft can then be fitted into its place.

The hopper shaft can be assembled beforehand by starting from the end that is already assembled.



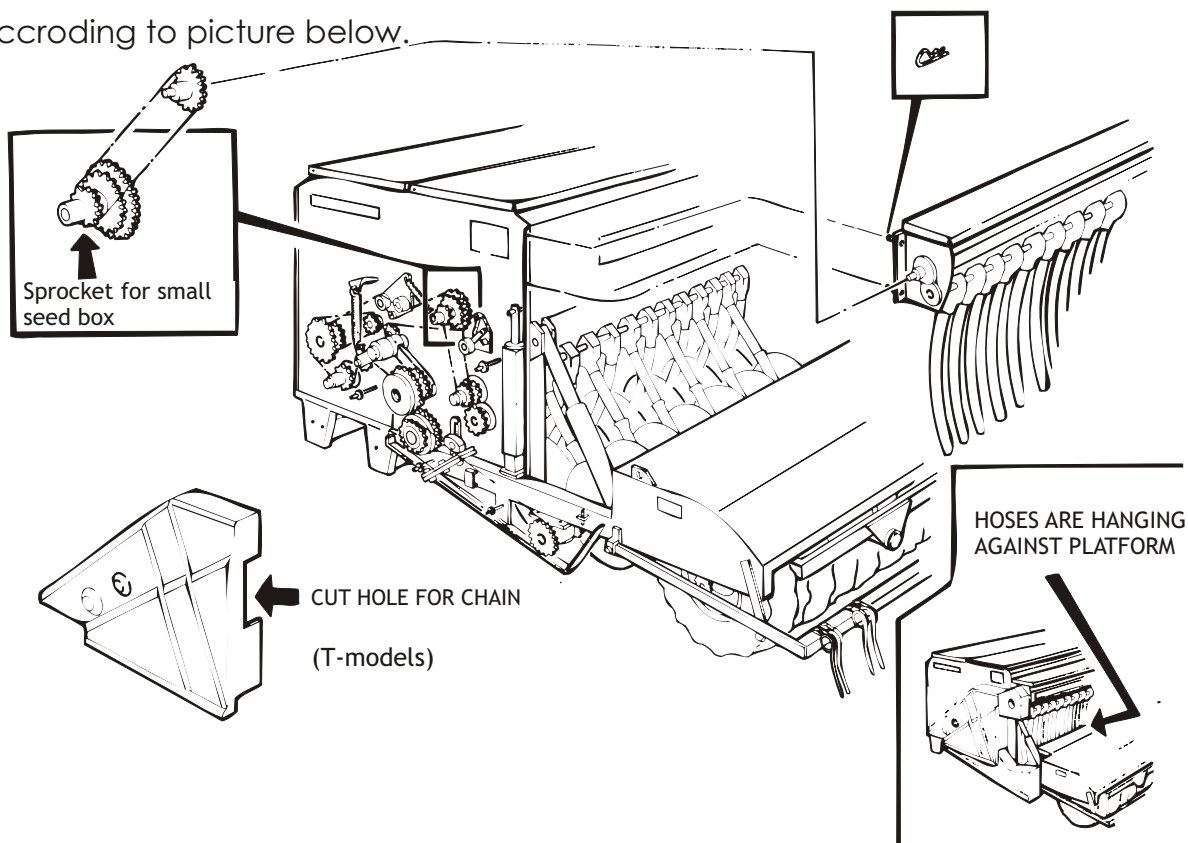
INSTALLATION FROM MODELS STARTING 1987 (MOUNTED MACHINES)

Installation according to picture below.



INSTALLATION FROM MODELS STARTING 1987 (TRAILED MACHINES)

Installation according to picture below.



7 CHOOSING SOWING AMOUNTS AND CALIBRATION

The sowing amount is adjusted by turning the set wheel on the right end plate of the machine. The scales, from which the values are chosen, are the main scale on the detent of the set wheel and the circular scale on the set wheel. The position of the set wheel to the main scale is indicated by a groove in the edge of the set wheel. The sowing chart gives guideline values for the settings of the feeding devices. On the sowing chart, the vertical column indicates the sowing amount per hectare, while the horizontal scale indicates the settings of the feeding devices. The lower, larger numbers indicate the values on the main scale and the higher, smaller numbers indicate the values on the circular scale.

The sowing chart can be found both on the cover of the machine and in this leaflet. The appropriate line for the seeds that are to be sown is chosen from the lines on the sowing chart. The point in which the desired sowing amount and the chosen line intersect indicates the settings of the feeding devices on the horizontal scale.

For example, if sowing timothy 32 kg/hectare, the setting is 3.5. The set wheel has to be turned so that the groove points to 3. The set wheel is turned further, so that notch no. 5 on the circular scale points to the detent of the main scale.

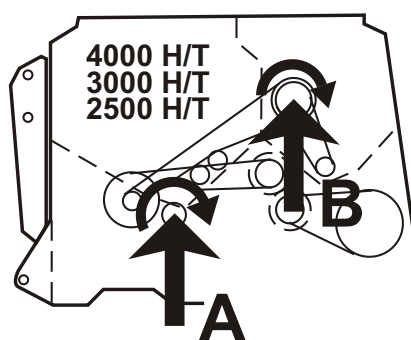
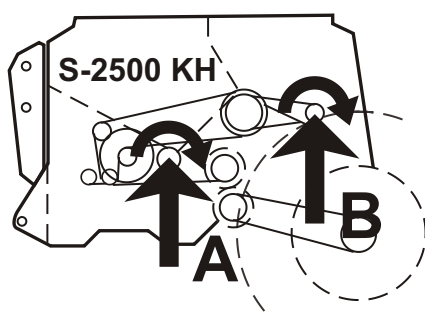
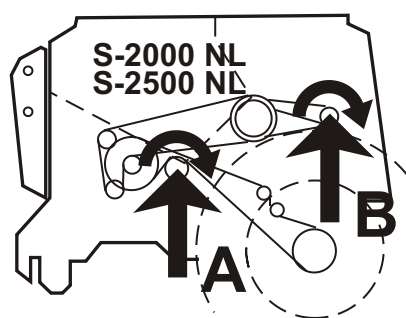
It is advisable to perform a calibration every time before the final choosing of the feed amount. The cleanness, specific weight and grain treatment of the seeds affect the flowing of the seeds in the feeding device.

While drawing up the sowing chart, a 5 % slide due to the sinking of the tires was taken into account, which, depending on the soil type, can be 5-10 %. The calibration must never be performed based on the surface area meter. The calibration can be performed separately on seeds and fertilizer if felt necessary. While performing the calibration, the locking pin of the chainwheel is to be moved to the outer most hole, so that only the feeding devices of the small seed device are rotating.

When performing the calibration, the calibration troughs of the machine are used like in the seed side. The adjustment values and round test points corresponding with the desired

CALIBRATION POINTS

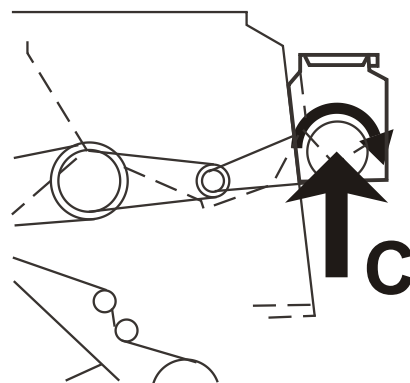
Using the crank from the package, turn the feeder shaft 1 revolution/3 seconds in the following points:



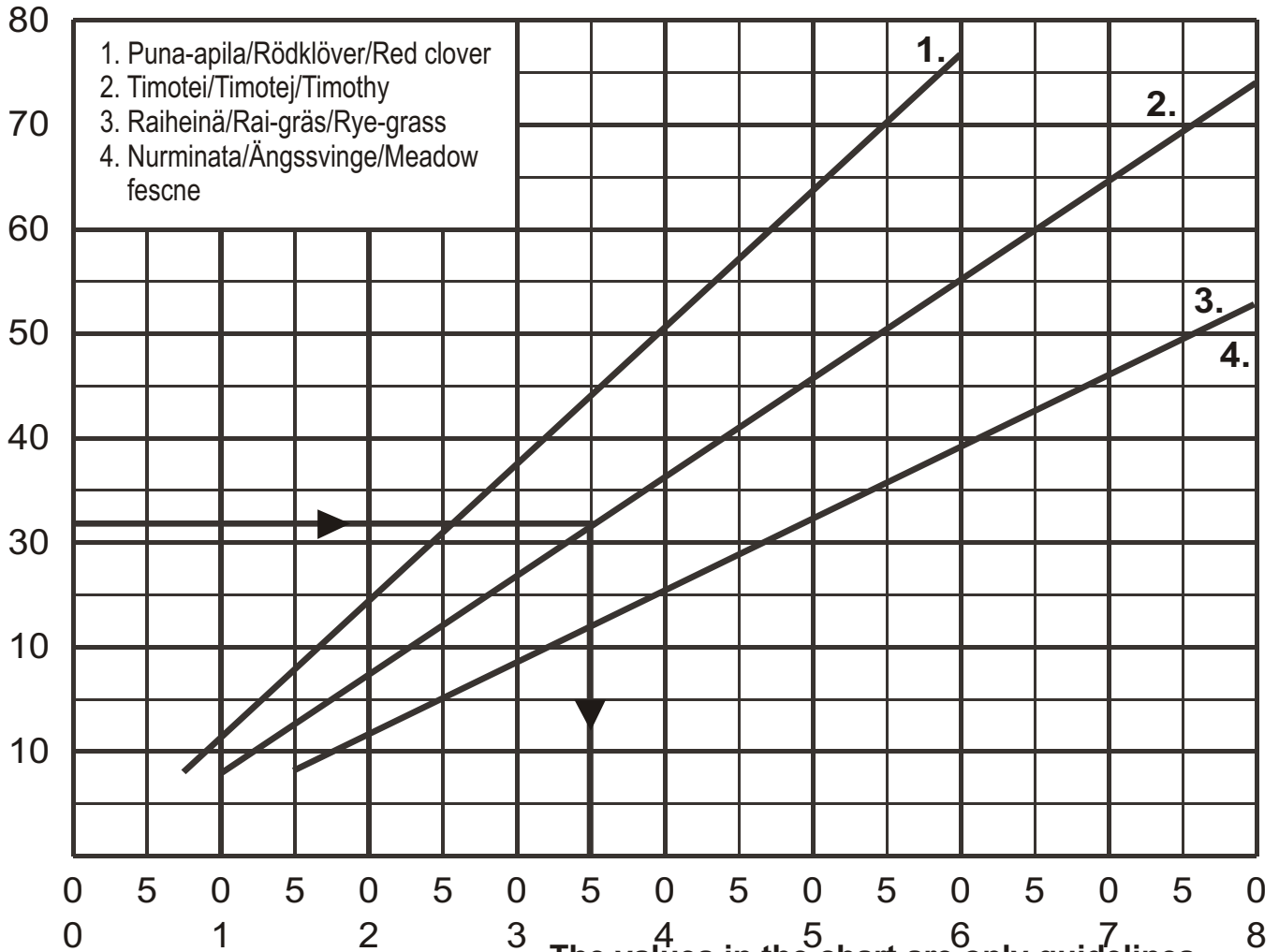
Calibration revolutions

B	R / 100 m ²
S-2500 NL	10,5
S-2500 KH	10,5
S-2500 H/T	5,3
S-3000 H/T	4,4
S-4000 H/T	3,3

C	R / 100 m ²
S-2500	3,1
S-3000	2,6
S-4000	2,0



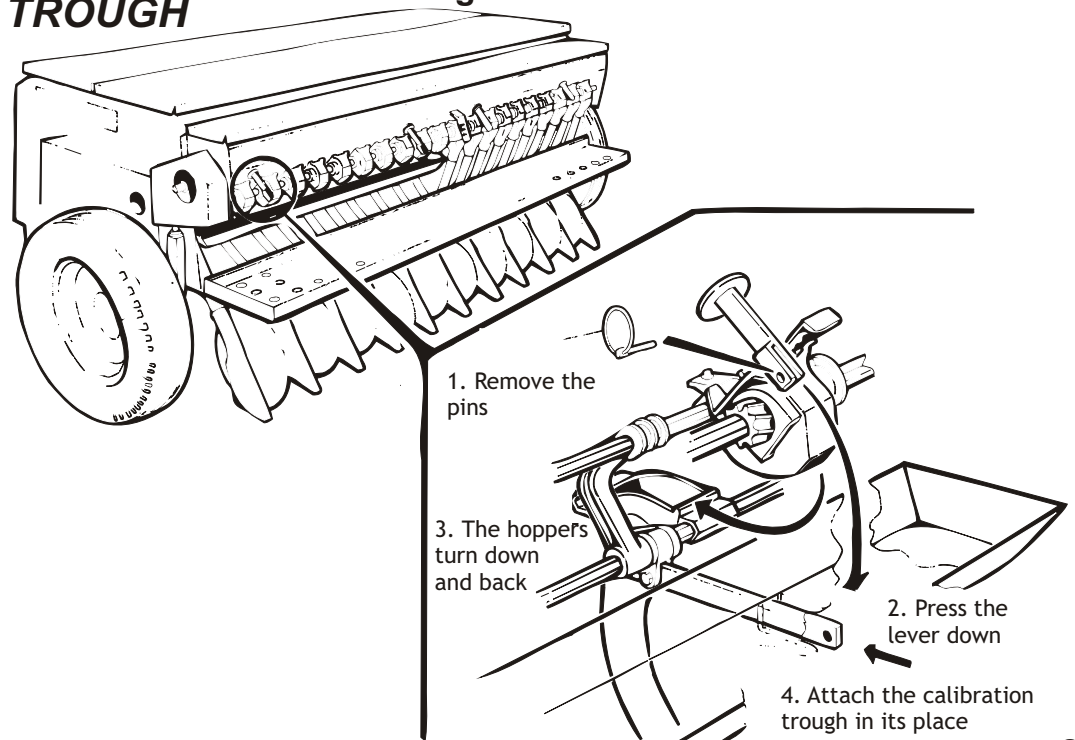
kg/ha SMALL SEED BOX SOWING CHART



Bottom flap position 0.

The values in the chart are only guidelines due to the variation in seed quality. They can be verified by calibration. For example, if sowing timothy 32 kg/hectare, the setting is 3.5..

CALIBRATION TROUGH USAGE

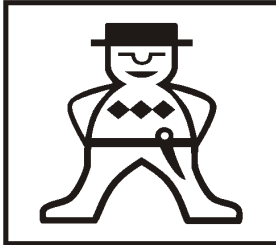


For example:

Sowing timothy 32 kg/hectare.

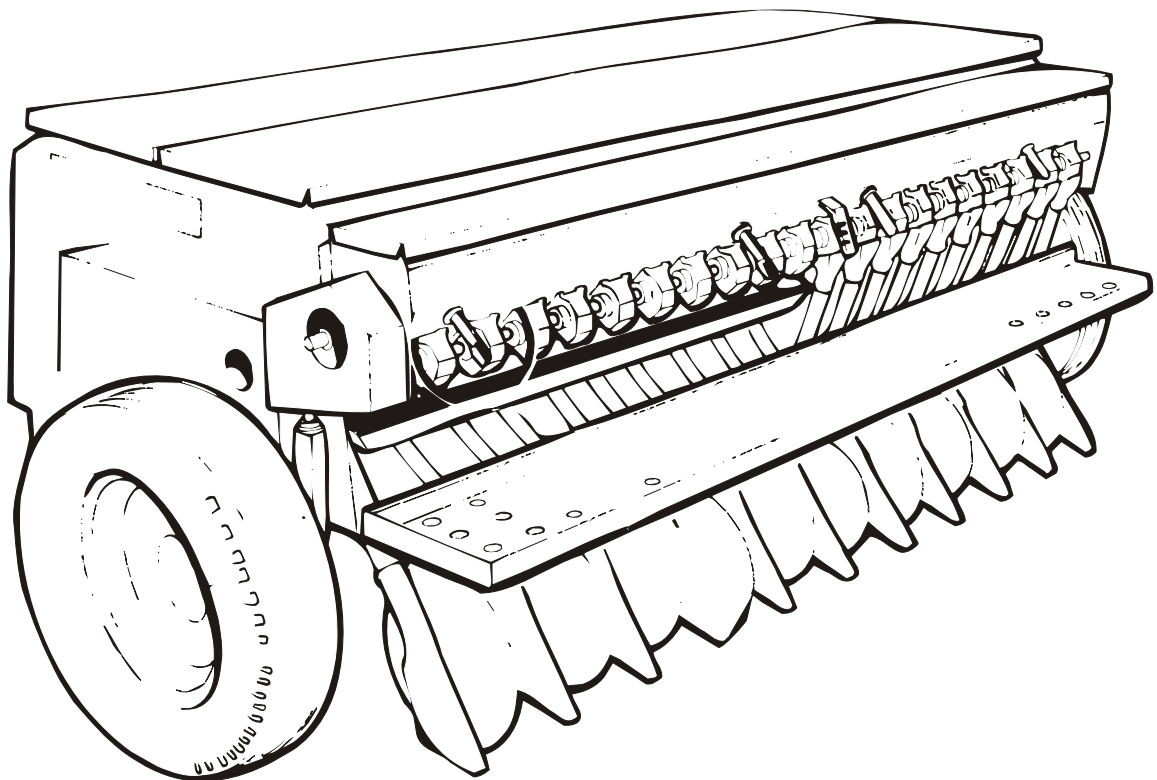
1. Fill the tank with at least 10 cm of seeds.
2. Lift up the machine.
3. Remove the locking pin of the chainwheel and move it to the outer most hole of the same shaft.
4. See the sowing chart for the correct settings for the sowing of timothy at 32kg/hectare, which are 3 on the main scale and 5 on the circular scale.
5. Adjust the feed from the set wheel on the left side of the machine so that the value on the main scale, which can be read in the centre of the set wheel, is 3. The set wheel is turned a further five notches, so that the value on the circular scale is 5. The adjustment is always made from the smaller value to the larger.
6. Remove the pins from the supports of the calibration troughs and remove hopper shafts. Remove the pins also from the supporters of the fertilizer drill's calibration troughs and remove troughs.
7. Re-install the hopper shafts of the small seed sowing device and the troughs under the feeder cases and make sure that all the seeds fall into the troughs.
8. Turn the calibration crank, which has been installed in the calibration point, a few rounds and make sure all the feeder cases are feeding. Pour the seeds from the troughs back into the tank and replace the troughs.
9. Turn the crank at the speed of 1 rotation/3 seconds (see chart).
10. Weigh the seeds that have fallen into the troughs.
11. If the weight was considerably different from the one indicated on the chart, readjust the machine and repeat calibration.

*NOTE THAT THE VALUES IN THE SOWING CHART ARE ONLY ESTIMATES
DUE TO THE DIFFERENCES IN TEXTURES, GRAIN TREATMENTS, ETC.*



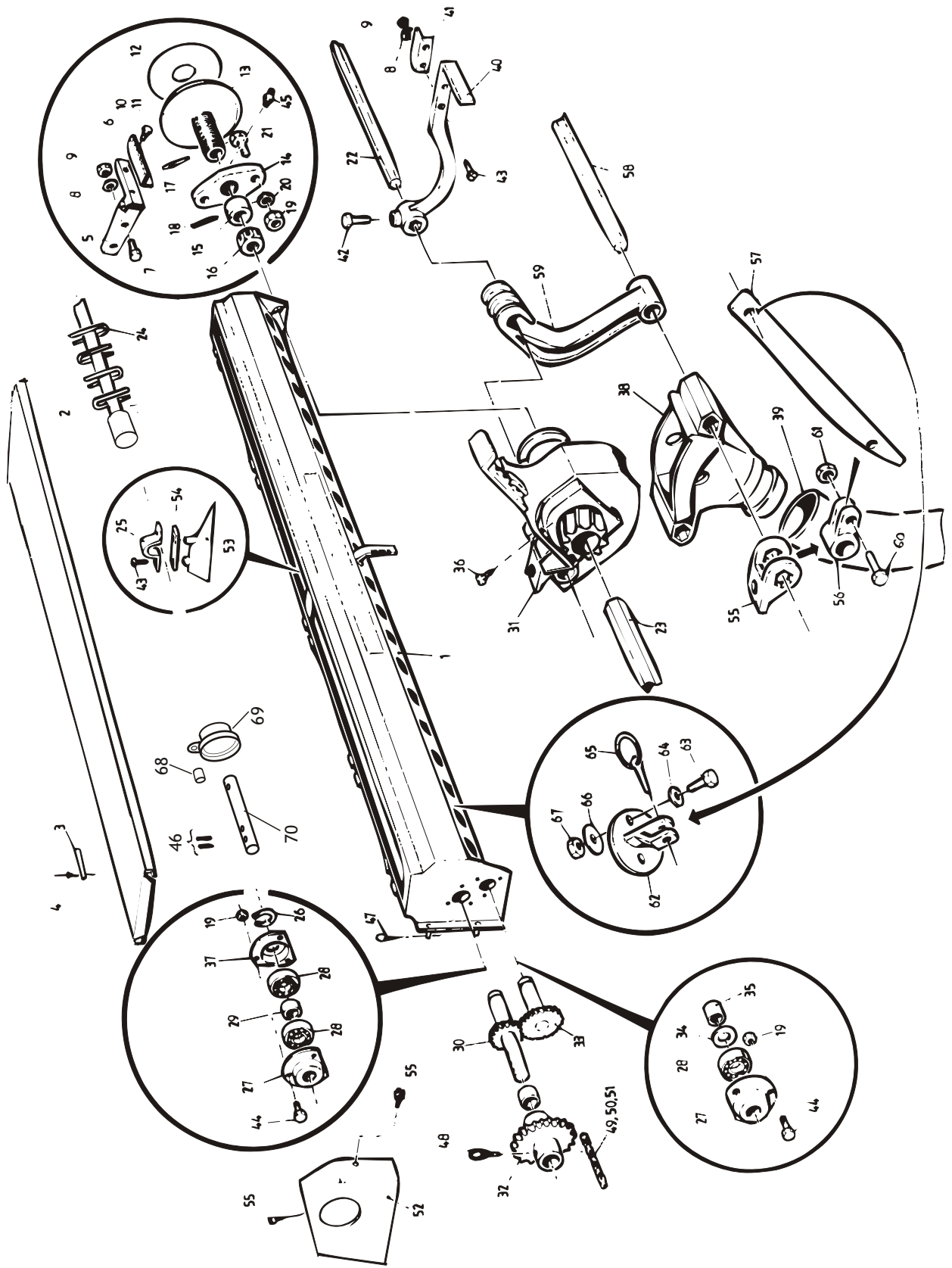
Junkkari

PIENSIEMENLAATIKKO SMALL SEED BOX

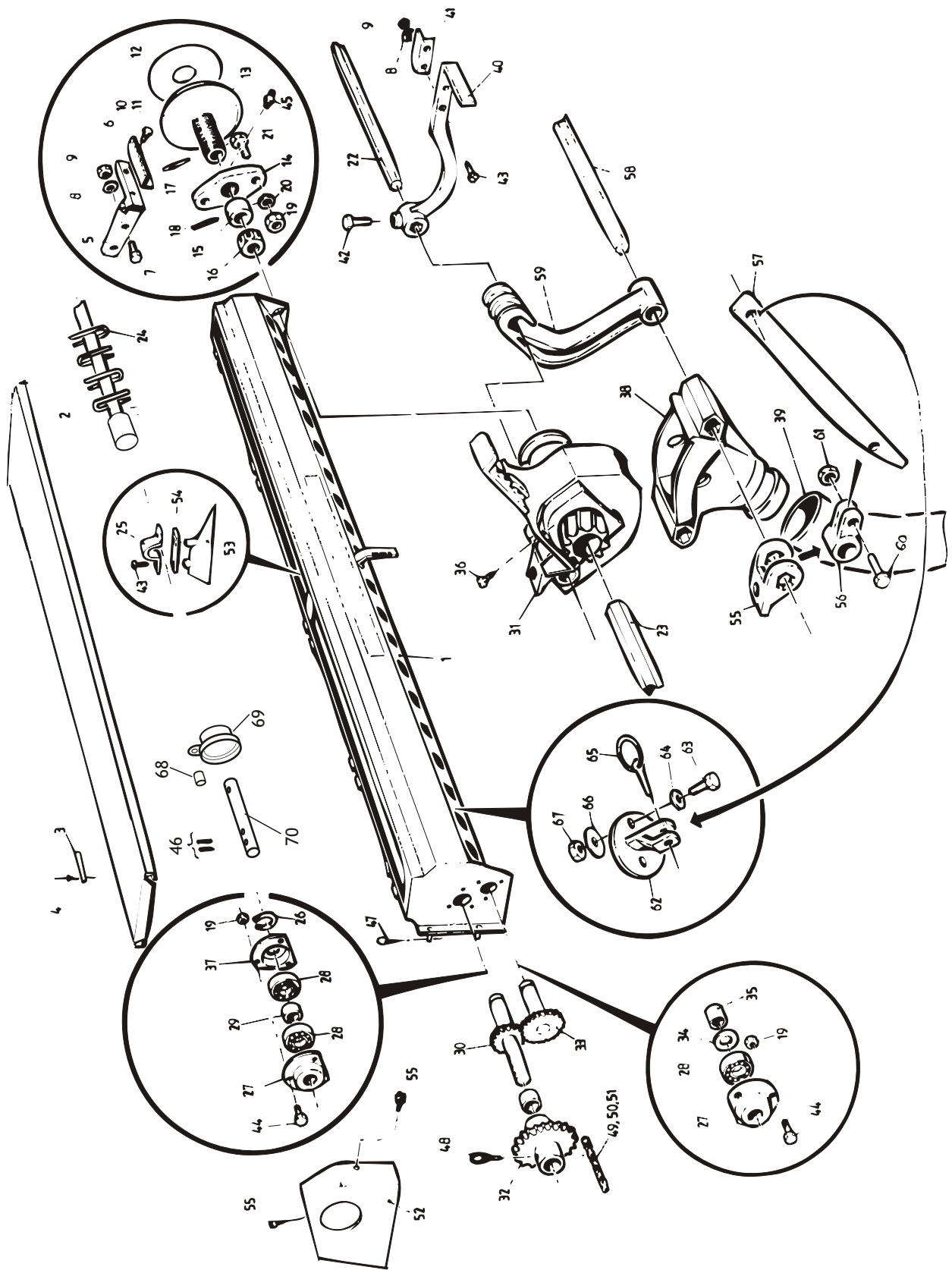


VARAOSALUETTELO SMALL SEED BOX

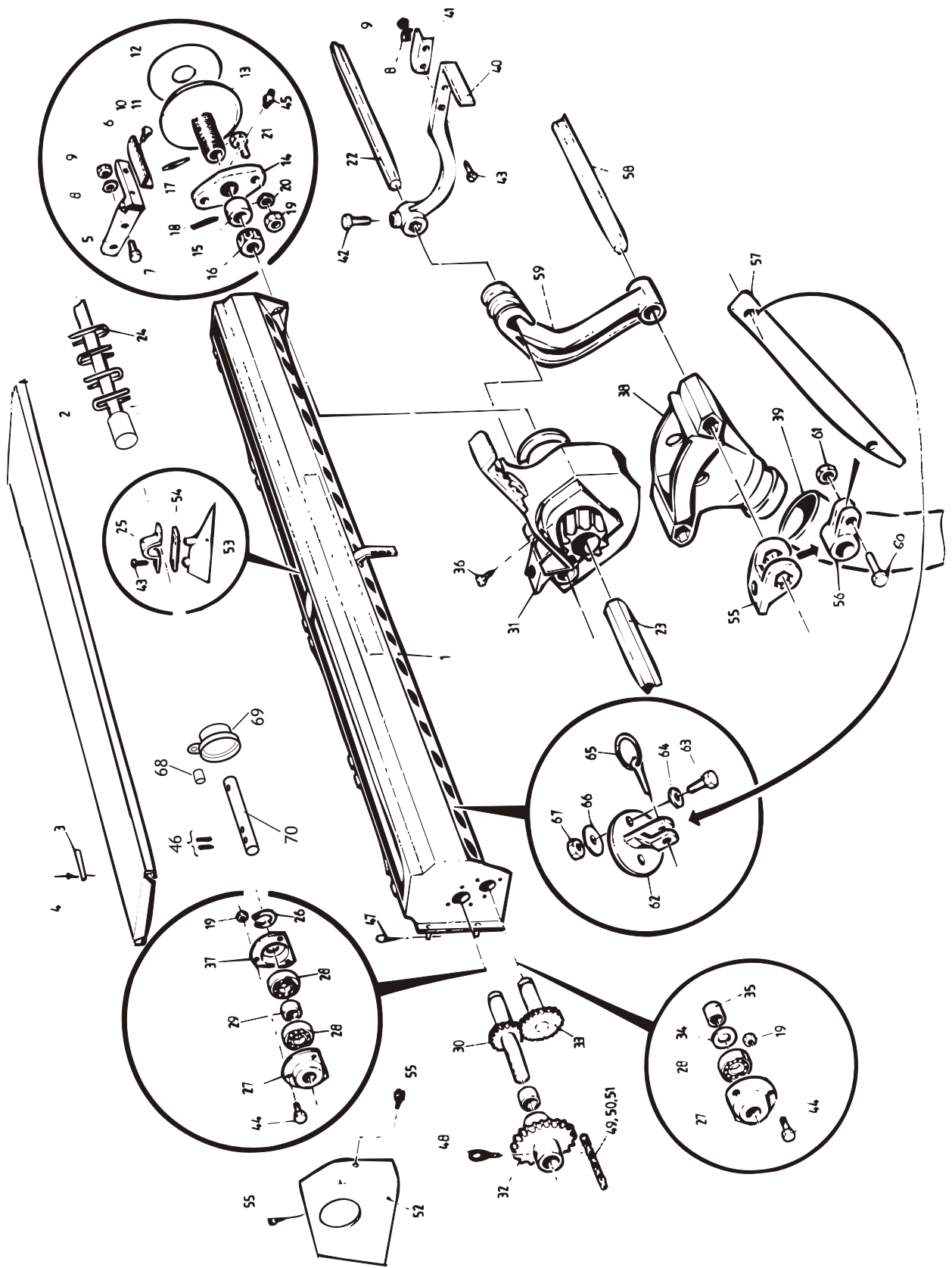
Junkkari Oy
62375 YLIHÄRMÄ FINLAND
TEL. +358-(0)6-483 5111
FAX +358-(0)6-483 5295
e-mail: junkkari@msk.fi



VIITE REF	KPL PCS	2500	KPL PCS	3000	KPL PCS	4000	OSANRO PARTNO	KOODI CODE	NIMIKE	PIENSIEMENLAATIKKO	NAME
1	1	0	0	0	0	0	130004	1-1433	"	SMALL SEED BOX	"
	0	1	1	0	0	0	140004	1-1433	"	"	"
	0	0	0	1	0	0	124400	2-13173	"	"	"
2	1	0	0	0	0	0	124230	3-3969	KANSI	COVER	"
	0	1	1	0	0	0	3963	3-3963	"	"	"
	0	0	0	1	0	0	13174	3-13174	"	"	"
3	3	3	3	3	3	3	124132	4-7939	SARANATAPPI	PIN	"
4	3	3	3	3	3	3	D40002	3.2*5.5	POP-NIITTI	RIVET	"
5	1	1	1	1	1	1	160301	3-2707	ASTEIKON PIDIN	BRACKET	"
6	1	1	1	1	1	1	13945	4-13945	SÄÄTÖASTEIKKO SP	SCALE	"
7	2	2	2	2	2	2	300049	M6*12	KUUSIORUUVI	BOLT	"
8	4	4	4	4	4	4	125027	M6	JOUSIALUSLEVY	WASHER	"
9	4	4	4	4	4	4	284533	M6	KUUSIOMUTTERI	NUT	"
10	2	2	2	2	2	2	125030	M5*10	LIERIÖKANTATÄHTIRUUVI	BOLT	"
11	2	2	2	2	2	2	125029	M5	ALUSLEVY	WASHER	"
12	1	1	1	1	1	1	160307	4-5238	ASTEIKKOLEVY SP	SCALE	"
13	1	1	1	1	1	1	160302	3-2708	SÄÄTÖRUUVI SP	BOLT	"
14	1	1	1	1	1	1	160304	4-7738	RUNKOMUTTERI	NUT	"
15	1	1	1	1	1	1	160306	4-5235	SIIRTOHOLKKI	BUSHING	"
16	1	1	1	1	1	1	160305	4-5236	SIIRTOMUTTERI	NUT	"
17	1	1	1	1	1	1	125032	6*28	JOUSISOKKA	PIN	"
18	1	1	1	1	1	1		5*40	JOUSISOKKA	PIN	"
19	2	2	2	2	2	2	130470	M8	MUTTERI	NUT	"
20	2	2	2	2	2	2	133850	M8	JOUSIALUSLEVY	WASHER	"
21	2	2	2	2	2	2	142260	M8*25	KUUSIORUUVI	BOLT	"
22	1	0	0	0	0	0	137406	2-2300	POHJALÄPPÄAKSELI SP	BOTTOMFLAP AXLE	"
	0	1	1	0	0	0	140406	2-2301	"	"	"
	0	0	0	0	0	0	3000	2-3000	"	"	"



VIITE REF	KPL PCS 2500	KPL PCS 3000	KPL PCS 4000	OSANRO PARTNR	KOODI CODE	NIMIKE	NAME
23	1	0	0	137705	3-12522	SYÖTTÖAKSELI SP	FEEDINX AXLE SEED
	0	1	0	13008	3-13008	"	"
	0	0	1	12901	3-12901	"	"
24	1	0	0	160816	3-2699	SEKOITINAKSELI	MIXING AXLE
	0	1	0	140401	3-2699	"	"
	0	0	1	2699	3-2699	"	"
25	3	4	5	160828	4-5223	LAAKERIN YLEMPI PUOLIKAS	BEARING UPPER HALF
26	2	2	2	131540	A35*1.5	SEGER	LOCK RING
27	3	3	3	12879	3-12879	LAAKERIPESÄ	BEARING HOUSING
28	3	3	3	160350	6007 2RS	KUULALAAKERI	BEARING
29	1	1	1	120419	4-5440	VÄLIHOLKKI SEK.AKS.	BUSHING
30	1	1	1	124145	4-7941	HAMMASPYÖRÄ Z22 + AKS.	GEARWHEEL Z22 + AXLE
31	30	24	32			SYÖTTÖLAITE KOOTTU	METERING DEVICE
32	1	1	1	124150	4-7945	KETJUPYÖRÄ Z37 1/2"	SPROCKET Z37
33	1	1	1	160813		HAMMASPYÖRÄ Z22	GEARWHEEL Z22
34	1	1	1	120425	4-5764	VÄLIRENGAS	RING
35	1	1	1	124149	4-7942	VÄLIHOLKKI SYÖTTÖAKS.	BUSHING
36	80	96	128		4.8*13	LIERIÖKANTATÄHTIRUUVI	SCREW
37	1	1	1	12880	3-12880	LAAKERIPESÄ LEIKATTU	BEARING HOUSING
38	20	24	32	13294	3-13294	SUPPILO LP	HOPPER
39	20	24	32	124166	4-7976	PUTKI	HOSE
40	1	1	1	124161	3-3971	VIPU POHJALÄPPÄAKS.	LEVER
41	1	1	1	161505	4-5222	LUKITSIN SÄÄTÖVIPUUN	LOCK
42	1	1	1	125049	M8*16 8.8	KUUSIORUUVI	BOLT
43	8	10	12		4.8*16	LIERIÖKANTATÄHTIRUUVI	BOLT
44	8	8	8	142260	M8*25	KUUSIORUUVI	BOLT
45	1	1	1		M6*1 NO504	RASVANIPPA	NIPPLE
46	2	2	2		5*32	JOUSISOKKA	PIN
47	4	4	4		NO 104	NUTTURANEULA	PIN



VIITE REF	KPL PCS	2500	KPL PCS	3000	4000	OSANRO PARTNR	KOODI CODE	NIMIKE	NAME
48	1	1	1	1	1		7.4 mm	RENGASSOKKA	PIN
49	1	1	1	1	1	124205	2" 68 RLL	KETJU	CHAIN
50	1	1	1	1	1		34 RLL	HINATTAVISSA	IN TRAILED MODELS
51	1	1	1	1	1		2"	SUORALIITIN	COUPLING
52	1	1	1	1	1		2"	SUPISTUSLIITIN	COUPLING
53	9	11	15	15	15	12034	3-12034	KETJUNSUOJA	COVER
54	3	4	5	5	5	13417	3-30056 M6	SORMIRUUVI	BOLT
55	20	24	32	32	32	12810	3-13417	KOLMIOPALA	CONE
56	4	4	4	4	4	125072	4-12810	LAAKERIN ALEMPI PUOLIKAS	BEARING, LOWER HALF
57	4	4	4	4	4	125065	4-6063	POHJALÄPÄN SÄÄTÖKPL	ADJUSTER
58	2	0	0	0	0	13377	4-13378	KANN.VARR.KIINN.HOLKKI	BUSHING
59	4	4	4	4	4	13376	4-13377	LATTA	PLATE
60	4	4	4	4	4	13376	4-13376	AKSELI	AXLE
61	4	4	4	4	4	13376	4-13376	"	"
62	4	4	4	4	4	133762	3-13376	"	"
63	8	8	8	8	8	D30122	3-13375	KANNATIN	SUPPORT
64	8	8	8	8	8		M6*20	KUUSIORUUVI	BOLT
65	4	4	4	4	4		M6 IL	MUTTERI	NUT
66	8	8	8	8	8	13618	3-13618	KANNATIN	SUPPORT
67	8	8	8	8	8		M6*16 aisi	RUUVI	BOLT
68	1	1	1	1	1		M6	ALUSLEVY	WASHER
69	1	1	1	1	1		4.5*32	RENGASSOKKA	PIN
70	1	1	1	1	1		22/6.6*2	KORIALUSLEVY	WASHER
							M6 IL	KUUSIOMUTTERI	NUT
							3-14423	HOLKKI	BUSHING
							3-14425	LAAKERIN SUOJA	COVER
							3-14421	TAPPI	PIN
							S-2500	SYÖTTÖAKSELI KOOTTU	AXLE ASSY
							S-3000	SYÖTTÖAKSELI KOOTTU	AXLE ASSY
							S-4000	SYÖTTÖAKSELI KOOTTU	AXLE ASSY