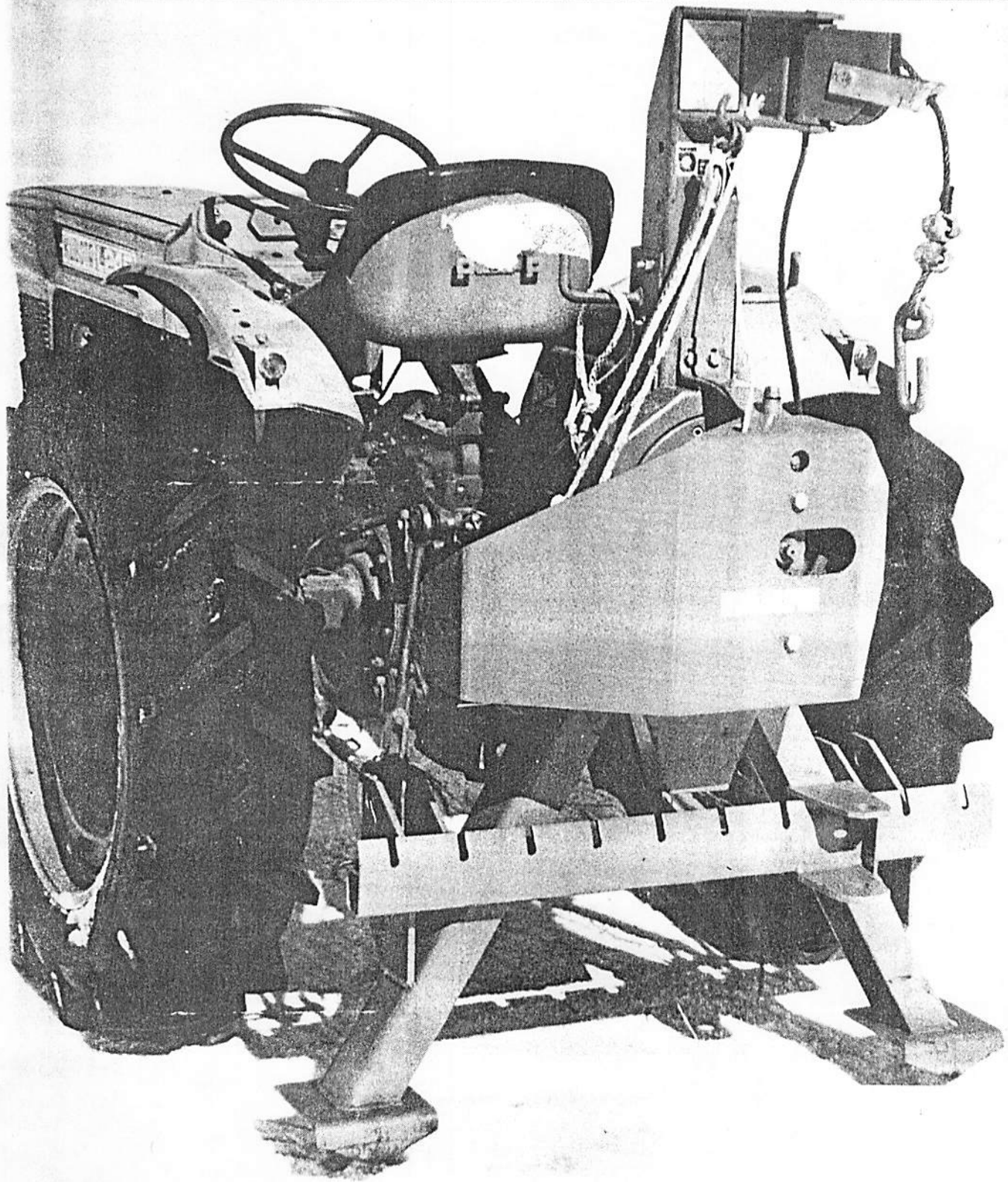


skidding winch

# FARMI JL 256



# Safety precautions



Read before operating this machine! It is the owner's responsibility to instruct all equipment operators and support personnel in the operation of this winch.



- Do not attempt to operate this winch without proper training!
- Do not operate this machine until the owner's manual has been fully read and understood.
- Keep hands, feet and clothing away from power driven parts!
- Ensure that the cable is in good condition before operating the winch. If the cable breaks, parts of it can fly both toward the operator and away from the winch. Ensure that all bystanders are out of reach of the cable when the winch is used.
- Never handle cable without first shutting off the power take-off!
- Always lock the cable underneath the lower snatchblock for transport.
- Do not use the winch for other uses than winching and skidding trees.
- Check the moving parts. They should be fastened in place, in good working condition and all shields and guards must be in place.
- Familiarize yourself with the controls and how to stop the winch and tractor in an emergency.
- Do not let children or incapable persons operate the winch.
- Do not wear loose clothing, loose sleeves, neckties or long uncovered hair around moving parts of machinery.
- Park the winch and tractor on level ground for winching.
- Operate the winch from a control rope from at least 6 feet to the side of the machine. Do not operate the winch from the tractor seat if there is no protective shield between the seat and the winch.
- Ensure that other people do not become endangered when you are using the winch.
- Do not leave the tractor running unattended.
- Disengage the P.T.O and turn the tractor off before you service the winch. Remove the keys so the tractor cannot be started up accidentally.
- Use only original parts replacements. Do not make any modifications.
- Inform anyone who works with the winch about the risks and how they can avoid accidents.
- Stay alert! Do not operate the winch when fatigued.
- Do not winch at sideways angles exceeding 30 degrees.
- Failure to heed the warnings printed on the winch or in the operators manual might result in serious injury or death!

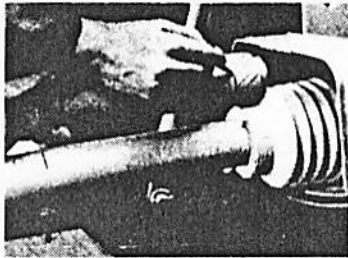
# JL 250

**Read and understand these instructions before operating the winch and follow the safety regulations.**

## MOUNTING

The winch can be mounted to the 3-point hitch of any cat. I or II tractor.

- 1) If your tractor has a draft control valve connected to the top link, disconnect the valve. If this can not be done, lock the top link with brackets so that it will not move. Brackets for different tractors are available from your Farmi dealer.
- 2) Connect the lower links.
- 3) Connect the top link to the winch.
- 4) Lift the 3-point linkage up slowly to ensure that the winch will not touch the cab or the fenders of the tractor. Lengthen top link if necessary.
- 5) Cut the PTO-shaft to the right length for your tractor. Be sure that the PTO-shaft is short enough. A too long PTO-shaft will get damaged when the winch is lifted or lowered. Both PTO-shaft halves must be shortened by equal lengths.



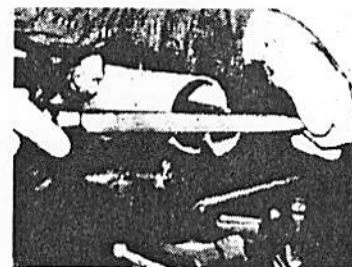
Connect one shaft half to the tractors PTO. Lay the other PTO half on its side so that the end of the shaft is one inch from the PTO-end of the winch. Mark lengths required.



Cut the plastic shield.



Cut profile tube by same length.



File sharp edges.

- 5) Mount the PTO-shaft. The chain on the PTO-shaft is fastened to the PTO-shield on winch.
- 6) Lift the winch until the PTO-shaft is in an approximately horizontal position. Pull out the stabilizer legs and secure the legs with their pins.
- 7) Lower the winch so that it is standing with the legs on the ground.
- 8) Adjust the top link to such a length that the drum axle is lying horizontally or slightly away from the tractor. Note: If the drum is leaning toward the tractor, it will lie on the clutch plate and the cable will not run out freely.
- 9) Pull out a few feet of the cable rapidly. There is risk for tangle and kinks on the

cable if the drum does not stop turning when the pull is discontinued. You should turn the drum brake down until you can notice sufficient resistance on the cable. See "Brake adjustment".

- 10) Every new cable should be pulled out all the way and winched in with a heavy load. This tightens the cable on the drum and increases the cable lift. This procedure should be repeated always if the cable is loose on the drum and is developing kinks or the cable is mixed up.

#### BEFORE RUNNING THE WINCH CHECK:

1. The cable
  - is faultless (breaking risk)
  - the cable clamps' guard pipe is in its place
  - its length is suitable, avoid using too long a cable
2. The machine fastening
  - all the pins, spindles and screws are in place and the screws tightened
3. Chain tightening, drum brake and latch brake, see "Periodic Service"
4. Clutch (see "Periodic Service")
  - the clutch is correctly adjusted
  - the clutch rollers are lubricated
  - the return spring disconnects the clutch

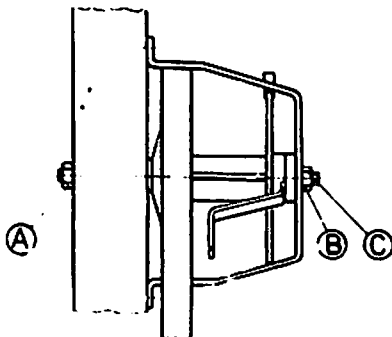
#### SAFETY PRECAUTIONS

1. Choose as even a hauling route as possible. Avoid steep slopes, especially when winching from the side. Check that the log haulage way is clear and that the tractor's brake is on.
2. The driver's safest place is obliquely backwards from the winch, where the visibility is good. Do not allow any outsiders near the working area. The assistant's safest place is behind the load.
3. Engage and disengage the clutch gradually.
  - Avoid an unnecessary strong pull, the tractor can turn over.
  - Adjust the inwinching speed according to the conditions.
  - Use a shield between the seat and the winch (e.g. safety cab).
  - Keep the tractor's PTO-shaft uncoupled when driving.
  - Use agreed gestures when working in groups.
  - When starting to winch, unwind the cable entirely and wind it up again together with the load.

#### PERIODIC SERVICE

##### 1. CLUTCH ADJUSTMENT

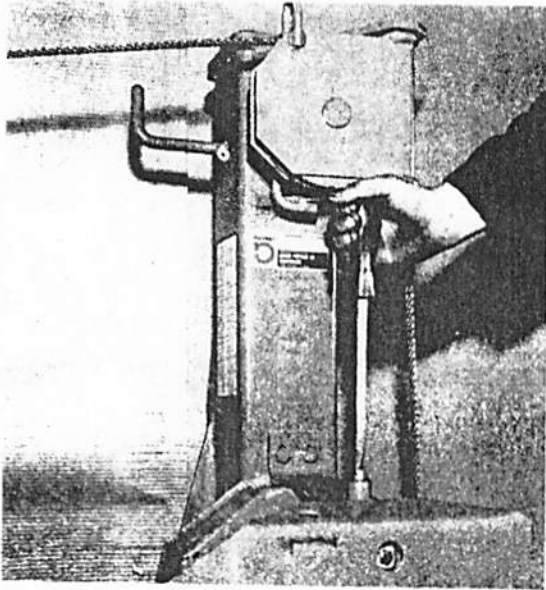
Adjust the clutch so that the clutch grips well, but also releases when the clutch lever is down. Make the clutch adjustment in the following way:



- a) Loosen the nuts A and B on both ends of the drum axle with a 1 7/16" wrench (30 mm metric wrench).
- b) Adjust the clutch by turning the axle C. The clutch loosens clockwise, tightens counter-clockwise (usually 1/4 turn is enough).
- c) After adjustment getighten the nuts on the ends of the drum axle (A and B).

## 2. BRAKE ADJUSTMENT

Always adjust the drum brake so that it slows down the drum lightly while pulling out the cable. This will prevent the drum from turning freely and entangling the cable. The brake should not be turned down so much that it is hard to pull out the cable. For adjusting, turn the screw up or down. The brake should be turned down about 1/4 turn every working day. This will increase the life of the cable.

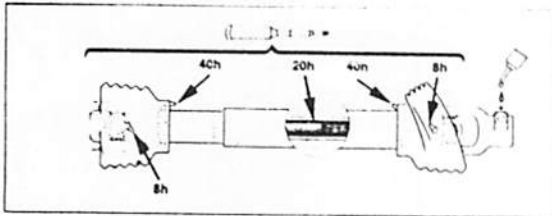


## 3. TIGHTENING THE ROLLER CHAIN

Adjust by moving the chain tightener in the following way:

- a) Loosen the 2 hexagonal bolts, which lock the chain tightener.
- b) Move the tightener toward the chain until the chain is suitably tight. The roller chain must have some slack to run properly (the chain has a tendency to come off the sprocket if it is too tight).
- c) Retighten the bolts.

## SERVICE



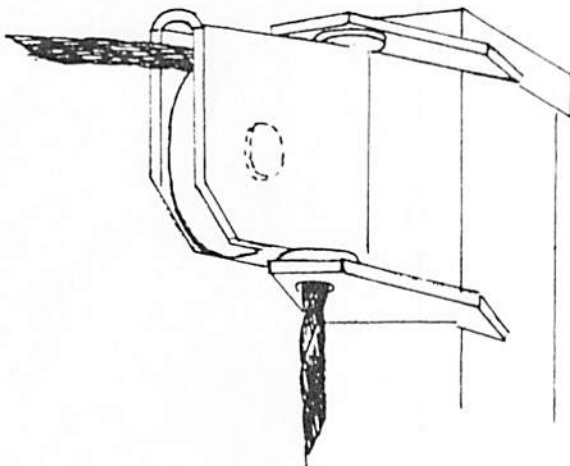
Grease the PTO-shaft as shown on illustration below.

Grease the lower sprocket bearing once a month.

Oil the brake ratchet latch once a week.

LIGHTLY oil the roller chain once a month with chainsaw bar and chain oil.

DO NOT use much oil because it may run into the clutch. If oil does get into the clutch, the entire winch mechanism has to be taken apart to remove the oil from the clutch.



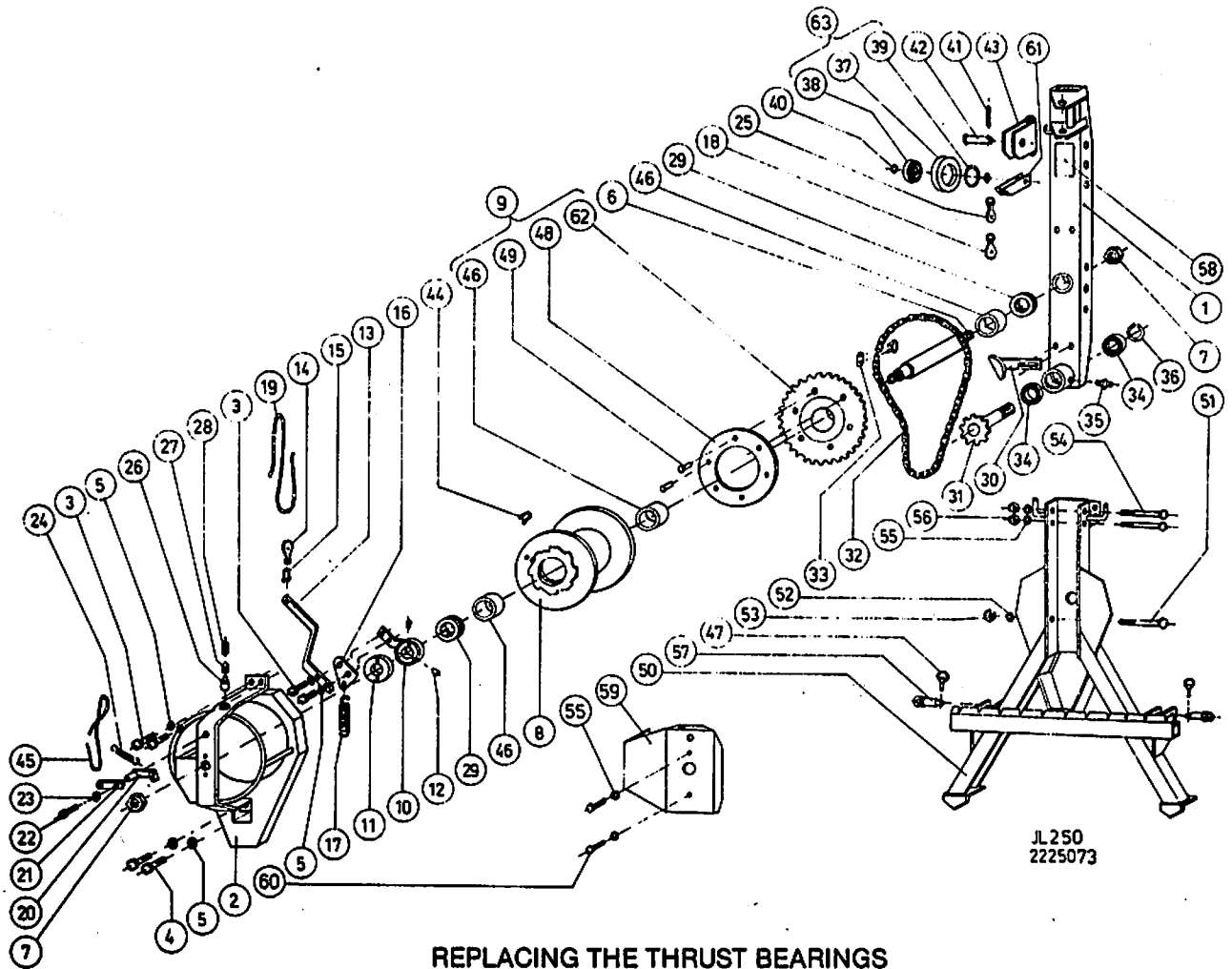
## REPLACING THE CABLE

The cable should be replaced when it develops kinks or shows signs of wear.

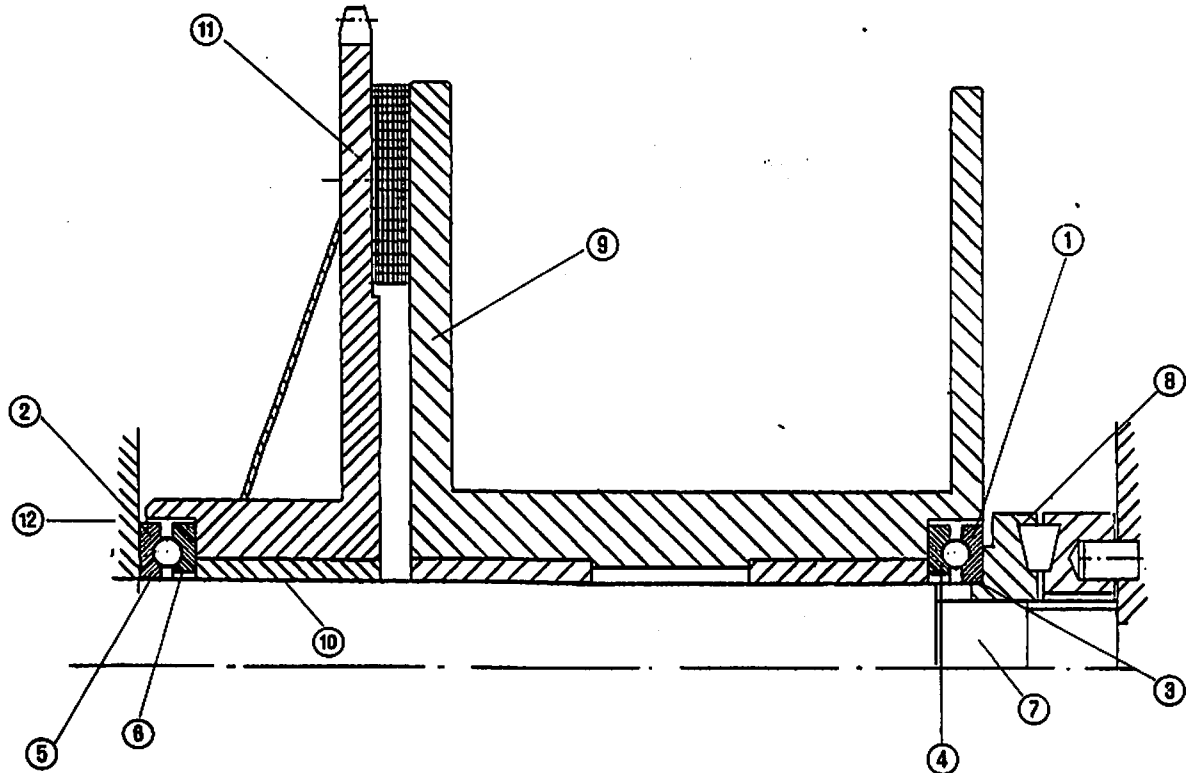
Note from picture how the cable should be run through the winch frame to the upper pulley. The cable goes through a hole in the frame to the upper pulley. Also tighten new cable as described in mounting instruction 10.

Replace JL 250 cable with 3/8" cable.

Steel core cable of good quality should be used.



**REPLACING THE THRUST BEARINGS**



- |  |  |                 |
|--|--|-----------------|
| 1. Thrust bearing                                  | 5. Smaller inside dia goes towards the frame   | 9. Wire drum    |
| 2. Thrust bearing                                  | 6. Bigger inside dia goes towards the sprocket | 10. Bearing     |
| 3. Smaller inside dia goes towards the clutch half | 7. Drum axle                                   | 11. Sprocket    |
| 4. Bigger inside dia goes towards the drum         | 8. Clutch                                      | 12. Winch frame |

No.	Order No.	Part	Pcs
1	2074001	Upper frame	1
2	2073008	Drum support and cover	1
3	5206022	Hexagonal bolt M10 x 25	4
4	5206035	Hexagonal bolt M10 x 35	2
5	5220004	Washer M10	6
6	3074002	Drum axle	1
7	5211110	Hexagonal nut M24	2
8	3058160	Wire drum	1
9	2073068	Main sprocket	1
10	3073006	Clutch half	1
11	3073005	Clutch half	1
12	4066023	Roller	3
13	3058008	Clutch lever	1
14	4270041	Block	1
15	5481504	Shackle	1
16	4058017	Spring fastener	1
17	9461301	Clutch spring	1
18	4072079	Block	1
19	0201064	Clutch rope l = 3500	1
20	4058215	Latch	1
21	4058018	Latch lever	1
22	5206011	Hexagonal bolt M8 x 16	1
23	5221404	Star washer M8	1
24	9461101	Latch spring	1
25	4072062	Block	1
26	4044411	Brake	1
27	9460101	Brake spring	1
28	5200815	Brake bolt M20 x 25	1
29	5454205	Thrust bearing 51109	2
30	4058012	Chain tightener	1
31	4225053	Fluted shaft	1
32	5482045	Roll chain 5/8" -81 links	1

No.	Order No.	Part	Pcs
33	5482004	Chain link 5/8"	1
	5482005	Chain link 5/8"	1
34	5451130	Ball bearing 6007 Z	2
35	5240101	Grease fitting R1/8"	1
36	5223006	Circlip $\varnothing$ 35 x 2,5	1
37	4058020	Snatchblock	1
38	5451111	Ball bearing 6305 2Z	1
39	5223112	Circlip for hole $\varnothing$ 62 x 2	1
40	4058210	Sleeve	2
41	5281321	Cotter pin $\varnothing$ 6 x 40	1
42	9462086	Snatchblock pin	1
43	3292002	Snatchblock house	1
44	4073012	Shackle	1
45	0201065	Latch rope l = 2500	1
46	5456205	Bearing sleeve $\varnothing$ 45/55—45	3
47	5284215	Ring splint	2
48	5481323	Friction surface	1
49	5283001	Rivet $\varnothing$ 1/4" x 3/4"	6
50	1225035	Lower frame	1
51	5206260	Hexagonal bolt M16 x 150	1
52	5221107	Spring washer M16	1
53	5211007	Hexagonal nut M16	1
54	5206259	Hexagonal bolt M12 x 150	2
55	5221105	Spring washer M12	4
56	5211005	Hexagonal nut M12	2
57	9282089	Cat. I and II Link pin	2
58	4073067	Safety regulations	1
59	2225056	Front plate	1
60	5206203	Hexagonal bolt M12 x 40	2
61	3292004	Finger guard	1
62	2073077	Sprocket	1
63	0074015	Snatchblock, compl. parts 37, 38, 39	1