

FEB 77



Electric Chain Saw STIHL E15





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Instruction Manual
Sharpening Instructions of Saw Chains
and Spare Parts List

Electric Chain Saw STIHL E 15

You are to be congratulated on your new electric saw and we thank you for the confidence which you have in the STIHL product. We are convinced that this electric saw will fully meet with your expectations.

The present booklet contains the operators manual and the spare parts list for the electric saw STIHL E 15. Please kindly read under all circumstances the operators manual **before** operating with the tool for the first time to assure safe and correct handling of the machine. Also it is most important and in your own interest to follow the **rules for prevention of accidents on page 6**.

STIHL is constantly working technical improvements of all engines and power tools; therefore technical modifications, equipment and design are subject to changes without notice. Please understand that no claims can be presented for specifications and illustrations published in this booklet.

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Specifications

Engine

Design: Universal motor
 Performance: 1,9 kW
 Protection: P 20 (IP 20)
 Protective insulation: Classification II VDE 0740

Rated voltage:	V	110	220	230	240
Frequency:	Hz	60	50	50	50
Rated current power:	A	19	9,5	9	8,5
Fusing (retarded):	A	30	15	15	15

Gear

Design: Helical toothed bevel gearing
 Gear reduction i: 3,36
 Lubrication: Gear grease G-LP 00 f according to DIN 51502
 Lubrication filling quantity: 25 g (0.88 oz)
 Driving speed (chain sprocket) 6600 r.p.m.

Cutting Attachment

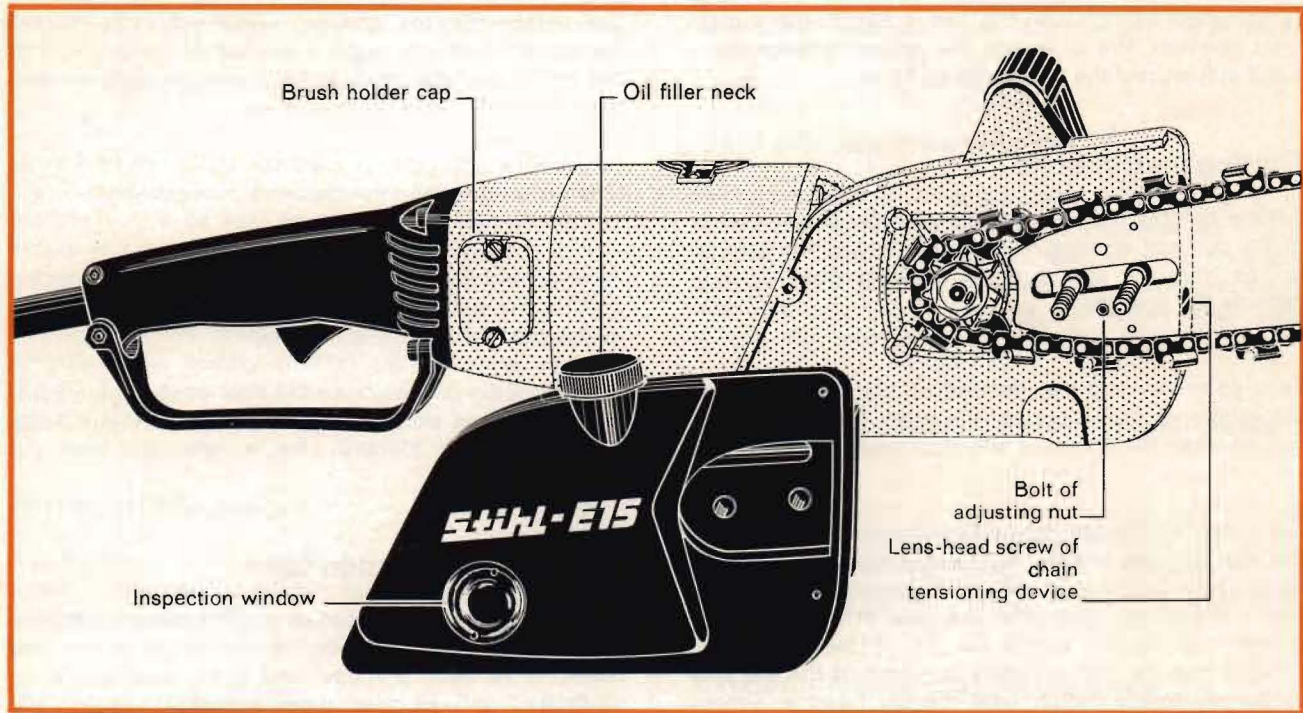
Guide bars: STIHL Duromatic guide bars with stellite tipping at the bar nose
 Cutting lengths: 35 and 40 cm (14 and 16 in)
 Chain: $\frac{3}{8}$ " (9,32 mm) Oilomatic Standard-, Oilomatic Micro- and Oilomatic Super chain. Oilomatic Standard- and Oilomatic Micro chain also in S (safety) execution

Chain sprocket: 7 teeth for $\frac{3}{8}$ " pitch
 Chain lubrication: Fully automatic oil pump
 Oil tank capacity: Approx. 250 cm³ (0.53 pt)

Weight of saw

with 35 cm (14 in) bar and chain Approx. 9,5 kg (20.9 lb)

Assembly of bar and chain



As a safety measure, the STIHL E 15 comes to you with bar and chain dismounted. To mount bar and chain — loosen both nuts on the sprocket cover and remove cover with oil tank from the bolts. The chain tensioning device is located in a groove under the bolts.

Move tensioning adjustment nut towards chain sprocket to limit stop by turning lens-head screw counterclockwise with screwdriver end of combination wrench. Place bar over bolts in such a manner that bolt of tensioning nut extends into the hole below the groove. Loop the chain over the chain

sprocket and fit it into the bar groove with the cutting edges of the chain at top of the guide bar pointing towards the bar nose. Pretension chain a little bit before mounting the chain sprocket cover in order to avoid pinching the chain when mounting.

Mount chain sprocket cover and shims on bolts in reverse sequence. For the moment tighten the two nuts only slightly by hand. Turn lens-head screw of chain tensioning device clockwise **while holding the bottom side of the bar**. Now tighten nut with the **nose of the bar up**, until all slack has been removed at

combination wrench with the bar locked in the uppermost position. **The chain has the proper tension when it will pull around the bar easily by hand.**

Cutting Instructions

Before putting the saw into operation check timber to be cut and remove nails, sand and other foreign bodies from the cutting surface. Otherwise you may damage the saw chain.

Turn your saw into the desired cutting direction and place bumper firmly against the trunk. Then only start cutting when the switch is fully depressed.

Don't forcibly change the cutting direction. Don't force the saw into the timber. This would stop the chain. In addition to bucking in different directions, you can also make plunge cuts with the saw. When starting a plunge cut do not insert the tip of the guide bar straight into the timber. Apply one side of the bar end diagonally to the timber until the bar head is almost immersed in the wood. At this point bring saw with running chain into the desired cutting direction.

The motor is **switched on** by depressing the dust proof trigger switch, which is mounted on the handle.

Hold switch tightly against the handle when cutting.

4 Stop motor by releasing the switch which whips back into its original position.

For safety reasons and to increase service life or performance of saw make sure that all connections at the couplings, plugs or sockets as well as the wires themselves are in good condition.

Don't use faulty or non-approved connections.

Always hold saw with both hands and before starting a cut make certain that everyone is clear of the running chain.

Prior to doing any work on the saw — such as mounting the bar and chain, sharpening the chain, etc. — be certain that the electric plug is removed from the socket.

Saw chain and guide bar

Before starting your first cut you should remember a few important hints for the maintenance of bar and chain. It is best practice and most economical to alternate 2 or 3 chains on a new sprocket.

Check chain lubrication only with running chain over a clear spot (stump of a tree, sawdust, etc.). If you can see traces of oil becoming more and more intense the chain lubrication is functioning properly.

Break-in your new saw chain for about 2 to 3 minutes by adding additional oil. Then adjust chain tension immediately. Recheck chain tension after the first 2 to 3 cuts and readjust if necessary and make it a practice to recheck chain tension frequently.

Do not use saw if the chain is not lubricating sufficiently and only use the special chain oil recommended by the factory or by our agents.

Do not let the guide bar wear on only one side. Make it a practice to turn it over every time that you sharpen the chain. Also **be sure to clean the oil hole in the bar before you remove it from the saw.**

Check oil level frequently through the inspection window when cutting and be careful when refilling chain oil, that no dirt (sawdust, chips etc.) may fall into the tank.

Electrical Equipment

The STIHL E 15 is a lightweight one-man gear saw which is fitted at the factory for 220 volt and 110 volt operation. (See machine plate.)

The motor has a protective insulation according to class II VDE 0740 (regulations by the Association of German Electrical Engineers). All parts of the machine being charged as well as all parts which could be charged in case of failure are covered by an insulant housing. The transmission is electrically separated from the motor by an insulation between the armature shaft and the armature spider. Therefore, the machine does not require grounding and, therefore, cannot be connected to grounded sockets. The cable has two operation make sure that the power supply voltage wires (no guard wire). Before taking the saw into corresponds to the data on the machine plate. The engine, which is connected for 220 volts must be fused

by a safety fuse of at least 15 A and the 110 volt with a safety fuse of 20 A.

Care and Maintenance

Owing to its simple construction your STIHL E 15 does not need much maintenance. However, for a long service life and good performance of your saw, you should make the few maintenance checks regularly and carefully. Clean machine thoroughly after each working day and store it in a dry place.

Check chain lubrication, chain tension and sharpness of chain frequently.

Have saw repaired or connected only by your service shop. It is to your own advantage to make use of our service organization which has available all the necessary equipment and expertly trained personnel.

Exchanging the carbon brushes

When the machine has been used for a certain length of time (about 200 operating hours) you should check the carbon brushes as to their condition and, if necessary, replace them with new ones. To exchange the carbon brushes you unscrew the brush holder caps at both sides of the machine.

Attention! The caps are under spring tension.

Now you can remove the old carbon brushes and replace them with new ones.

Safety Precautions

Observe all safety precautions mentioned hereafter under all circumstances.

The STIHL electric saw is a one-man saw and is therefore only operated by one man. No second person is allowed within the operating area of the guide bar.

Before starting to work check electric saw for proper functioning (stop switch, power cord, power plug).

Never use damaged cables, couplings, plugs or none-approved connecting wires.

Arrange and mark the power cable in such a way that it cannot be damaged and nobody will be endangered.

Attention: When working with the electric saw the wire must always be kept behind the operator.

Before starting to work with the electric saw the operator must look for a safe foot hold. Start the cut only with a rotating chain.

Always place a chain guard over the guide bar when carrying the saw.

Keep both hands on your saw when cutting in order to have positiv control of the saw at all times. Before each cut place the spiked bumper firmly against the wood, then start cutting. If you cut without a spiked bumper be careful that the saw does not jerk forward and make you loose your balance. Also draw the electric saw out of the cut only with running chain.

Handle the electric saw in such a way as to keep your body clear of the reach of the cutting attachment.

Work calmly and with a clear head, before starting to cut make sure that no one will be endangered!

Attention when cutting split timber. Beware of flying splinters when cutting split timber.

Use safety chain for cutting jobs where mainly plunge-cutting is done.

Timber which is under tension has first to be cut on the compression side, thereafter the crosscut must be done from the tension side. Otherwise the saw could pinch or kick-back.

Wear a safety helmet at all times. We recommend helmets with face protection (against splinters). Garments should be adequately protective i. e. trim fitting gloves (chrome leather), snug fitting garments (overall-no coat) and shoes with nonslip soles and steel caps).

Always watch for proper tension, lubrication and sharpness of the saw chain.

When checking the chain tension and at every other maintenance and control job — also when refilling the chain lubrication oil — always unplug the power plug from the socket.

The driving motor is not water protected. Therefore it is not allowed to work with the E 15 when it is raining or in wet or very damp surrounding. Moreover, do not leave the saw outdoors when it is raining.

Sharpening and Maintenance of Saw Chains

Description of the chains

STIHL saw chains are 3-link chains and are always assembled according to one principle. The individual components of a chain are shown on the opposite illustration. One distinguishes between chipper chain, semi-chisel chain and full chisel chain. The STIHL specifications for these chains are: **Oilomatic standard-, oilomatic micro- and oilomatic super** chain which are available in standard execution or as safety chain.

An important distinguishing mark of the saw chains is the chain pitch. In order to determine the pitch one measures the distance from one rivet to the one after the next. This measure must be divided by 2. The result is the pitch which according to international standards is mostly specified in inch-measure ($6,35 \text{ mm} = 1/4''$).

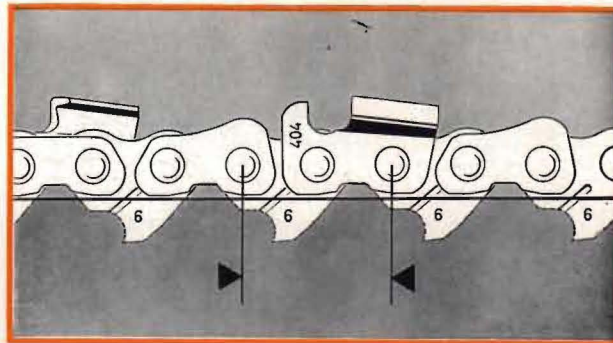
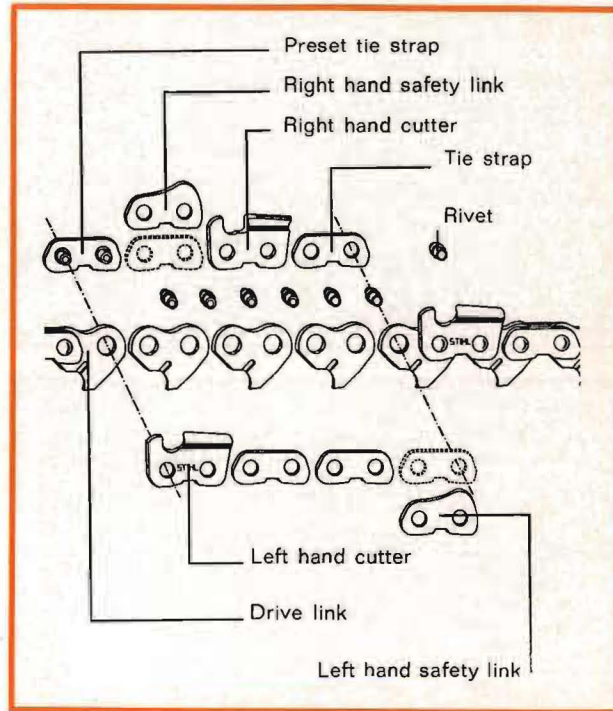
Like any other cutting tool the saw chain is set out to normal wear. An correctly sharpened chain enters the wood easily already at low feeding power. Therefore never try to work with a dull or damaged chain.

To achieve a proper sharpness of the chain it is necessary to know some important measurement specifications which are described in the following paragraphs.

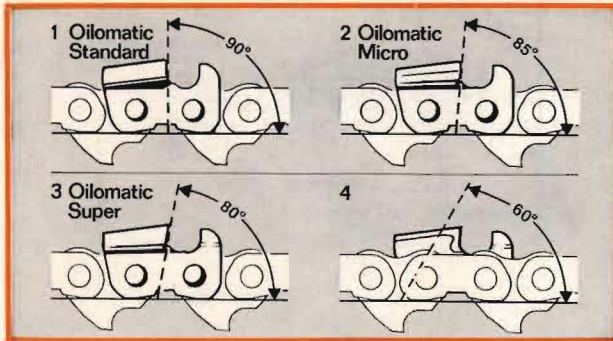
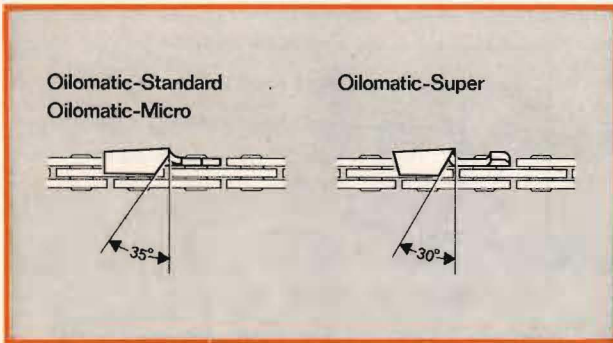
The sharpening angle

The oilomatic standard and oilomatic micro chains must have a sharpening angle of 35 degrees; this sharpening angle also is the factory setting. A sharpening angle of 30 degrees is recommended when cutting in hard or frozen wood. Oilomatic super chains, however, have a normal sharpening angle of 30 degrees.

Top: Assembly sequence of saw chain
Bottom: Determination of pitch



Top: Sharpening angle
 Center: 1—3 = side plate angle
 4 = top plate cutting angle
 Bottom: Specification of file diameters



Chain pitch	Files ϕ	File no.
1/4" (6,35 mm)	3,5 mm	0811 411 8068
.325" (8,25 mm)	4,8 mm	0811 411 8088
3/8" (9,32 mm)*	5,5 mm	0811 411 8108
.404" (10,26 mm)*	5,5 mm	0811 411 8108
1/2" (12,7 mm)	6,3 mm	0811 411 8118

* If the cutter is filed half way back one must use a round file of diameter 4,8 mm (0.187 in) on oilomatic chain

Be sure to maintain this sharpening angle on all cutters. Different angle settings will cause rough and uneven chain rotation, increase the wear and finally lead to chain breakage. When sharpening by hand file the **cutting edge only from the inside to the outside.**

Side plate angle

The front cutting edge of the chain cutter is called side plate edge. Therefore its angle toward the gliding surface of the cutter tooth is called side plate angle. The following side plate angles are recommended: Oilomatic standard chain 90 degrees, oilomatic micro chain 85 degrees, oilomatic super chain 80 degrees. These sharpening angles are obtained automatically if a file holder with the recommended chain is used and if this file holder is used correctly when filing.

Top plate cutting angle

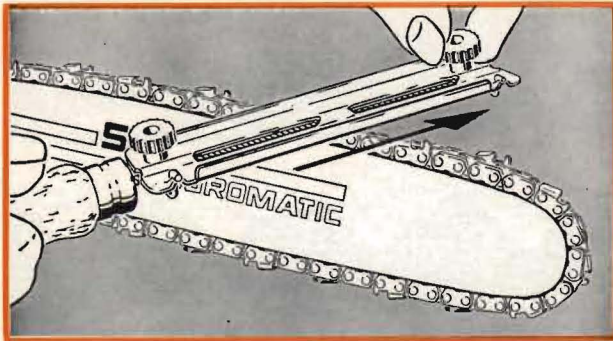
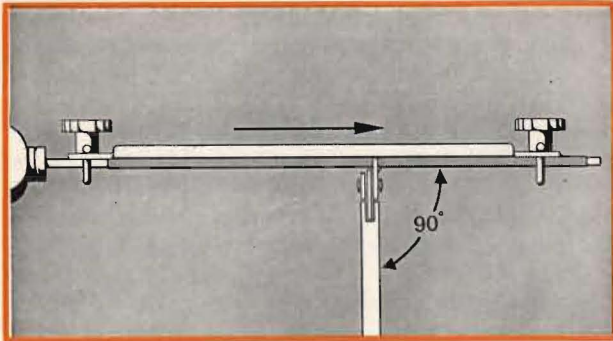
The top plate cutting angle of 60 degrees is true for all kinds of chain. When using the file holder properly or when sharpening with another STIHL sharpening tool this top plate cutting angle is obtained automatically.

Sharpening the cutting edge

For sharpening only special chain sharpening files have to be used depending on the respective chain type. Regular work shop files are not suitable because of their shape and cut. The easiest way to file a saw chain correctly is to use a file holder or a filing tool.

All cutters must be of same length! Due to the in-

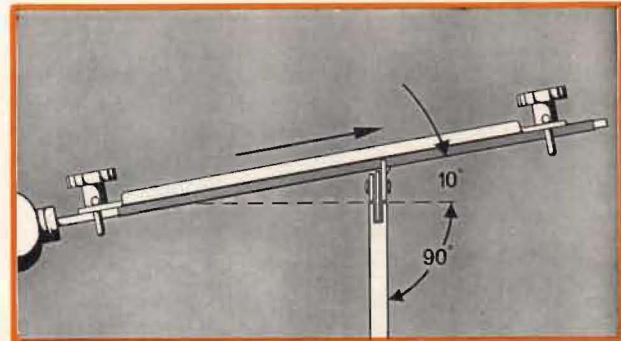
Top: File position on oilomatic standard chain
 Bottom: Sharpening with file holder



clined shape (clearance angle) of the top plate different cutter heights are the unequal result of cutter lengths. Varying cutter heights, however, are causing chain chatter and finally lead to chain breakage.

Cutters must be controlled with a sliding gauge as equal cutter lengths are most important. The shortest cutter which is found has to be sharpened first and is then used as reference for all the others. All cutters therefore must be filed back to this length. First sharpen all cutters of one side and then sharpen the others.

File position on oilomatic micro and oilomatic super chain



When sharpening oilomatic standard chain the file must be guided parallel to the top plate and at a 90 degree angle towards the lateral surfaces of the chain links.

When sharpening oilomatic micro chain and oilomatic super chain, however, the file and the file holder must be guided in such a way that it is held at a 10 degree angle to the top of the cutter. Consequently these chains must be filed by 10 degrees from bottom to top. A file holder must be used when sharpening oilomatic super chain by hand.

File evenly and keep in mind that the **file works only on forward stroke!** Lift file somewhat on backward stroke. Don't touch tie straps and drive links. Deburr cutting edge with a piece of hard wood.

To avoid a one-sided wear it is recommended to rotate the file in regular intervals.

Important: Sharpen often and take off few material! Normally 2—3 filing strokes are sufficient.

The easiest way to sharpen the chain is with a STIHL electric chain sharpener.

Depth gauge setting

The depth gauge controls the depth of the cutter bite and therefore the size of the chip. Cutting performance and chain life therefore are also influenced by the gap between depth gauge and cutting edge. This gap differs with each chain model. For proper setting use the respective filing gauge.

These settings are giving best cutting performances. When cutting soft wood in warm weather the depth gauge clearance can be lowered by 0,2 mm.

As the depth gauge setting is decreased when sharpening the cutter the height of the depth gauge must be controlled after filing and if necessary reset. If the depth gauge overlaps the slot provided in the filing gauge then it must be taken off until it levels by a flat or triangular file. Finally the depth gauge must be rounded off as well.

General chain maintenance

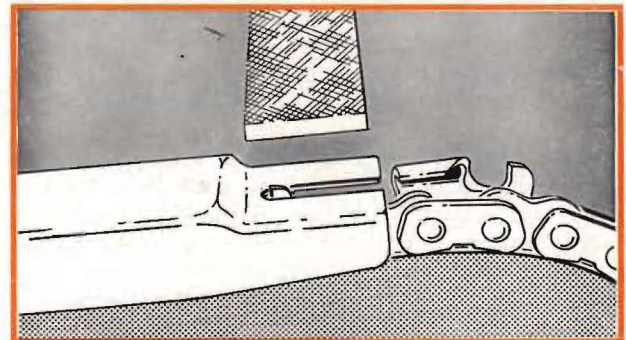
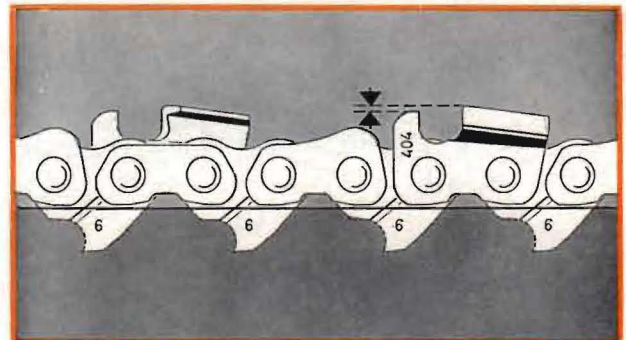
The chain maintenance starts at the very moment when the chain is put onto the guide bar and chain sprocket. Most important are **correct chain tension and sufficient lubrication**. See also paragraph "Bar and Chain".

After sharpening of the chain clean it throughly in gasoline to remove filings and abrasive dust. Then intensively soak chain in an oil bath. If a saw has been left idle for a longer period of time clean chain with a

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Top: Table of recommended depth gauge setting
Center: Depth gauge gap
Bottom: Retouching of depth gauge

Chain pitch	Gap	Filing gauge
1/4" (6,35 mm)	0,65 mm	1110 893 4000
.325" (8,25 mm)	0,65 mm	1110 893 4000
3/8" (9,32 mm)	0,65 mm	1110 893 4000
.404" (10,26 mm)	0,8 mm	1106 893 4000
1/2" (12,7 mm)	0,8 mm	1106 893 4000
1/2" (12,7 mm) on chain saw 090 G	1,2 mm	1106 893 4010



Top: Table with file holder order numbers
Bottom: STIHL file holder

brush and soak in oil-kerosene bath. For this purpose you can use the plastic chain box.

When sharpening and cleaning the chain also watch for cracks in the chain links and for damaged rivets. Replace damaged or worn chain parts. The newly assembled chain parts must be adjusted in shape and size to the originals and must therefore be retouched accordingly.

The breaking and riveting of chain is done most practically with the combined STIHL rivet spinner.

Tools for chain maintenance

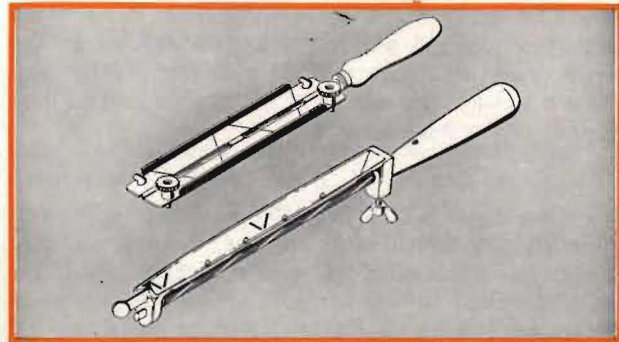
The **sharpening grid** which is provided with markings of the sharpening angles is fastened to the guide bar with a magnet.

The file holder also provided with markings of the sharpening angles make chain sharpening easy.

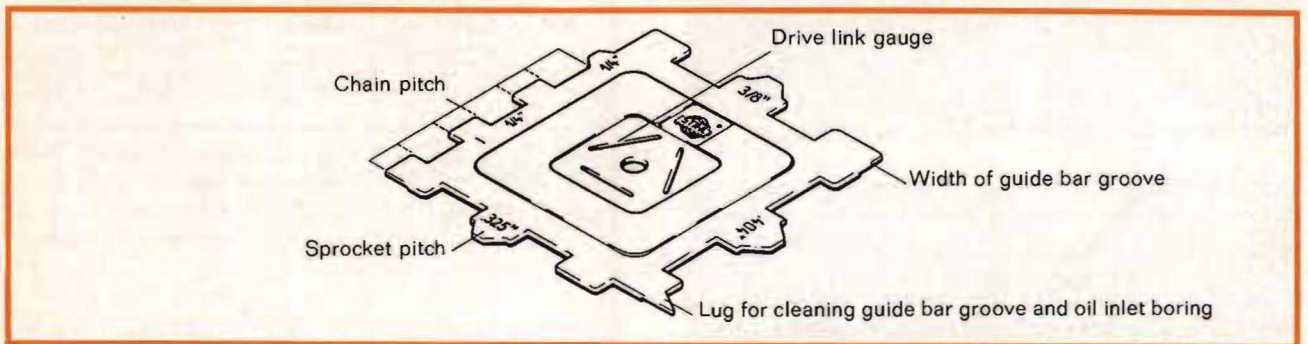
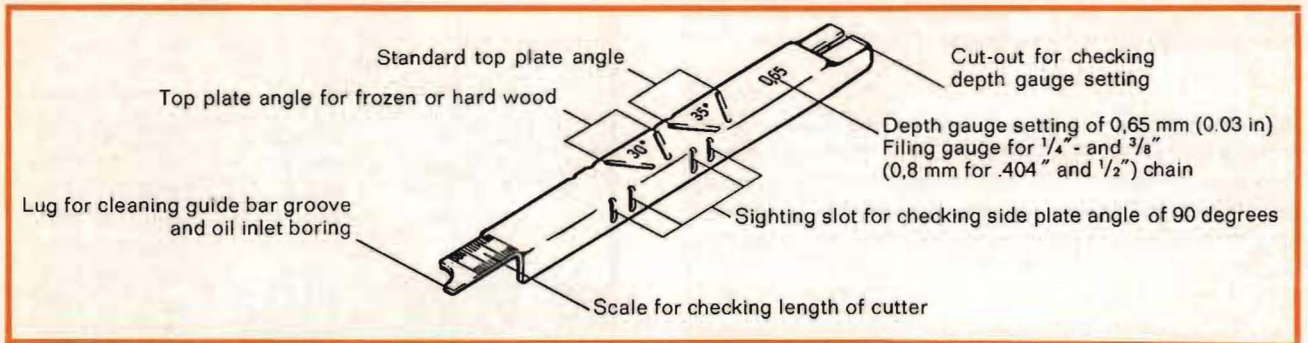
Instructions for the use of the **STIHL-Filerite**, the **STIHL HOS** electric chain sharpener and **USG** or the **STIHL rivet spinner** can be found in the instruction manuals of the respective tools.

Chain pitch	Chain type	File holder
1/4" (6,35 mm)	Standard	5605 750 4310
1/4" (6,35 mm)	Micro	5605 750 4320
.325" (8,25 mm)	Micro	5605 750 4325
3/8" (9,32 mm)	Standard	5605 750 4301 *
		5605 750 4330
3/8" (9,32 mm)	Micro	5605 750 4330
3/8" (9,32 mm)	Super	5605 750 4335
.404" (10,26 mm)	Standard	5605 750 4301 *
		5605 750 4330
.404" (10,26 mm)	Micro	5605 750 4330
.404" (10,26 mm)	Super	5605 750 4335
1/2" (12,7 mm)	Standard	5605 750 4302 *

* zinc-triangular file holder



Top: STIHL filing gauge
 Bottom: STIHL control gauge



The **filing gauge** is a universal tool to control the setting of top and side plate angles as well as the depth gauge clearance and the cutter length. Furthermore it serves for cleaning of the groove and oil inlet borings of the guide bar.

The **control gauge 0000 893 4105** is used to determine the pitch of chain and chain sprocket. Furthermore one can measure the drive link gauge of each chain, the width and depth of the bar groove and you can clean the groove and the oil inlet boring of the guide bar.

Spare Parts List

Your guaranty claims will be recognized only when using genuine STIHL spare parts.

This spare parts list will help you when ordering spare parts.

There are three different illustrations and texts which have the following headings:

- A) Housing, Cable brush, Rear handle, Gear case, Connecting cable, Support.
- B) Bar connection housing, Oil pump, Chain sprocket cover, Oil pickup body, Oil tank cover, Spiked bumper.
- C) Handle, Guide bar, Chain spares, Tools.

When going through the spare parts list you will find the illustrations of the different spare parts on the left side and the corresponding text on the right side.

The texts for the different illustrations are divided into the following five columns:

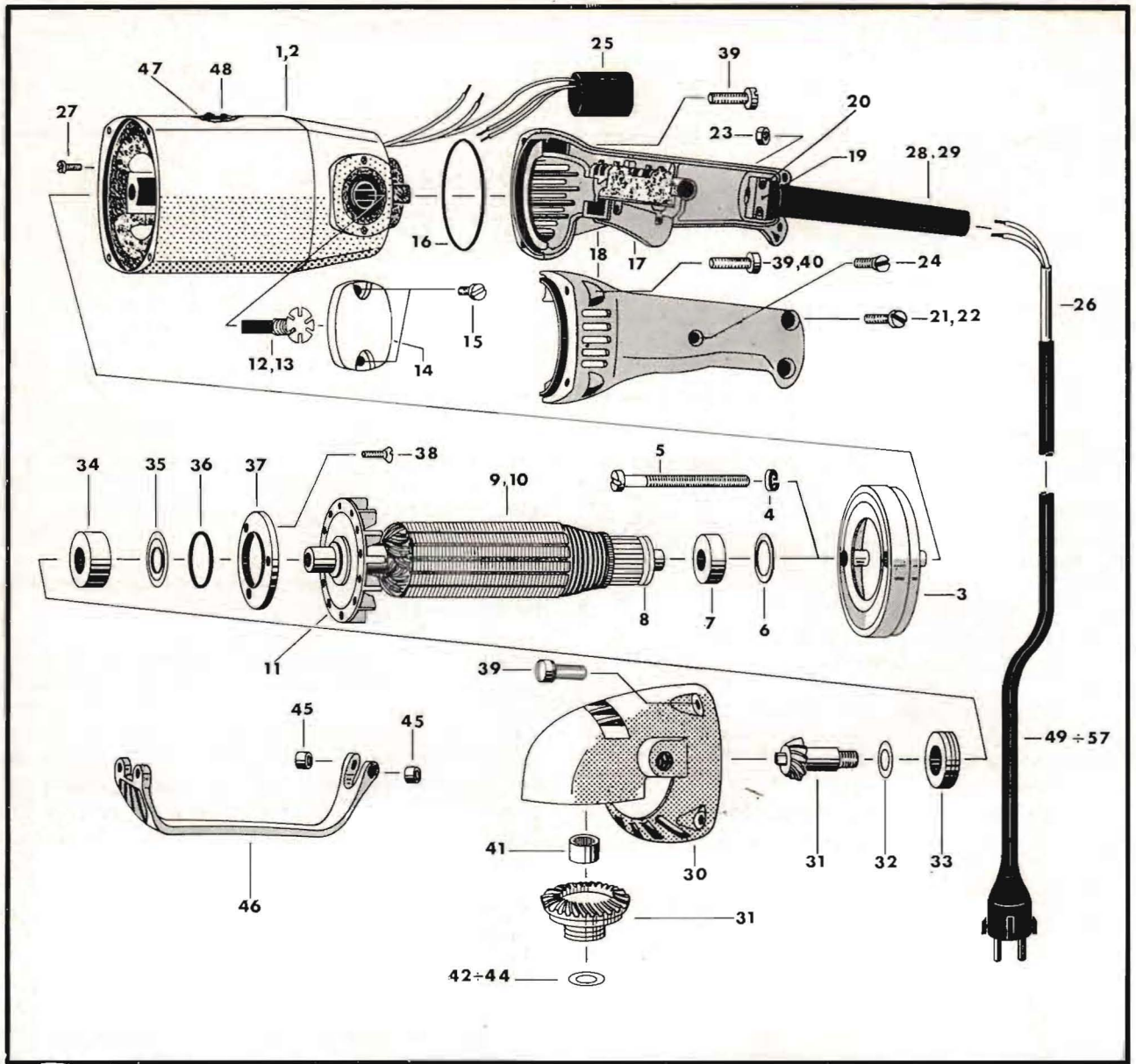
In the first column on the left side you will find the index numbers which correspond with the numbers on the illustrations. The second column states the ordering number and the third column the quantity of each part required for one power saw. The fourth column contains the part name of the figures, in the last column "Notes" refer to the notes which you will find at the end of some of the texts.

In your order please mention the ordering number, the quantity and the part name of the required part.

Furthermore, do not forget to mention also the model and the machine number of your power saw and your exact address.

Illustration A

Housing, Carbon brush, Handle, Gear case, Connecting cable



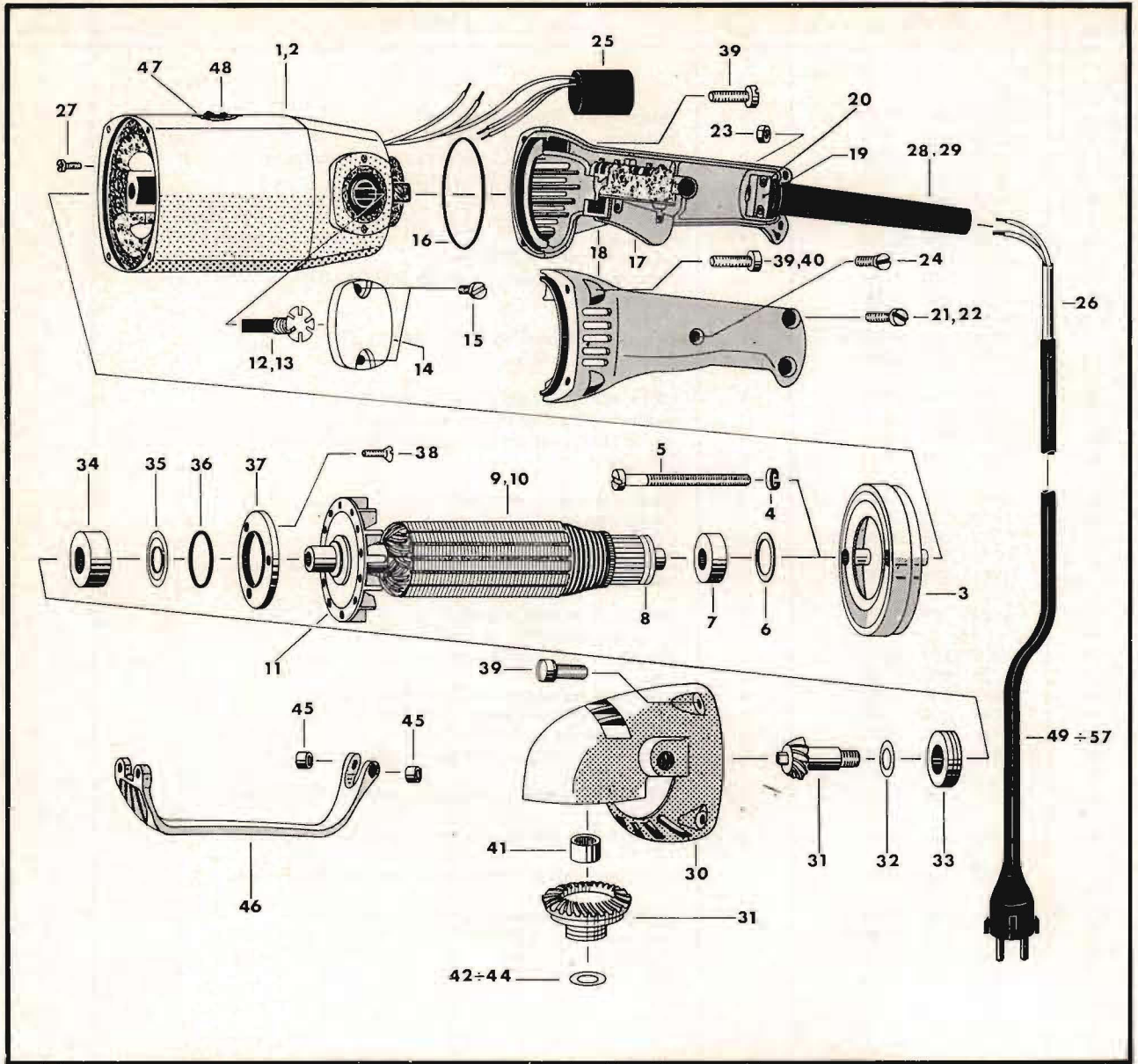
Text to Illustration A

Housing, Carbon brush, Handle, Gear case, Connecting cable

Index No.	Part No.	Quantity	Part Name	Remarks
1	1203 600 0800	1	Housing — Standard design	
2	1203 600 0810	1	Housing — only for U.S.A.	
0	1203 600 0815	1	Housing — only for Great Britain and Australia	
00	1203 600 0820	1	Housing — only for South Africa	
03	1203 600 0805	1	Housing — only for Italy	
3	1203 084 1900	1	Air guide ring	
4	9321 630 0120	2	Lock washer B 5 DIN 127	
5	9041 216 1060	2	Cylinder head screw M 5×95 DIN 84—5.8	
04	1203 602 9300	2	Washer	1
6	1203 608 1100	1	Shim	
7	9503 003 6490	1	Grooved ball bearing 6201 DIN 625 ZTH	
8	1203 607 8600	1	Grease trap washer	
9	1203 600 2200	1	Motor shaft assembly — standard design	
10	1203 600 2210	1	Motor shaft assembly — only for U.S.A.	
01	1203 600 2205	1	Motor shaft assembly — only for Great Britain	
11	1203 086 0700	1	Fan blade	
12	1203 608 3500	2	Carbon brush — standard design	
13	1203 608 3510	1	Carbon brush — only for U.S.A.	
14	1203 608 3400	2	Cover	
15	9048 319 0660	4	Cylinder head screw M 4×12 Z4 DIN 84—8.8	
17	1203 434 2400	1	Switch	
18	1203 790 0305	1	Handle — standard design including Index-No. 19 to 23 and 45 a	
05	1203 790 0315	1	Handle — only for Switzerland	
19	1203 608 9100	1	Clip	
20	9041 216 0650	4	Cylinder head screw M 4×10 DIN 84—5.8	
22	9041 216 0780	1	Cylinder head screw M 4×40 DIN 84—5.8	
23	9210 260 0600	1	Hexagonal nut M 4 DIN 934—8	
25	1203 605 1000	1	Anti-interference condenser — standard design	
02a	1203 605 1011	1	Anti-interference condenser — only for Switzerland	
06	1203 605 1012	1	Anti-interference condenser — only for Switzerland	
07	1203 605 1013	1	Anti-interference condenser — only for Switzerland	
08	9041 216 0630	1	Cylinder head screw M 4×8 DIN 84—5.8	1
09	9321 630 0100	1	Lock washer B 4 DIN 127	1
000	9294 021 0100	1	Washer 4,3 DIN 433	1
26	1203 442 0900	1	Insulating hose	

Illustration A

Housing, Carbon brush, Handle, Gear case, Connecting cable



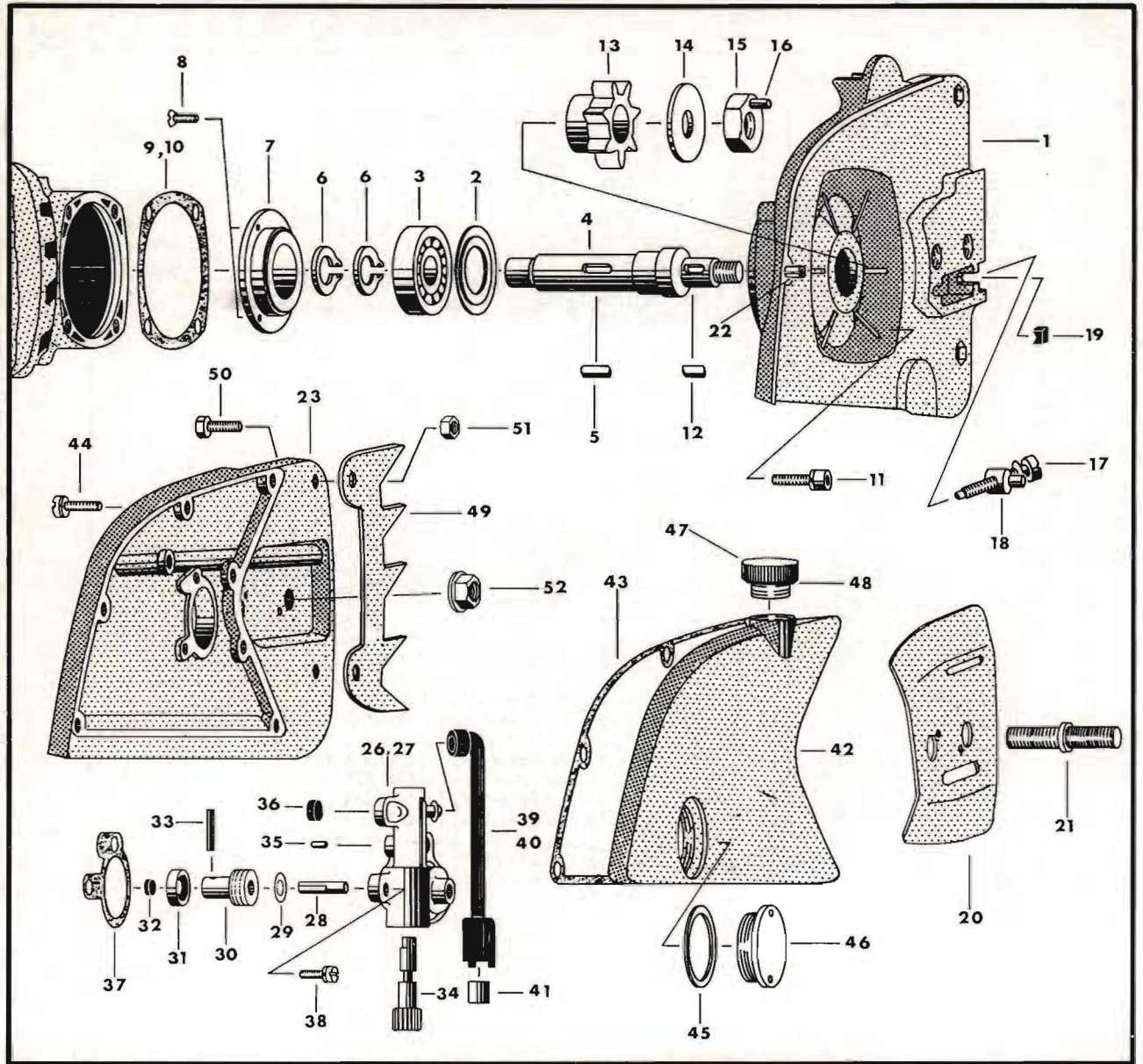
Text to Illustration A

Housing, Carbon brush, Handle, Gear case, Connecting cable

Index No.	Part No.	Quantity	Part Name	Remarks
27	9041 216 0610	1	Cylinder head screw M 4×6 DIN 84—5.8	
001	9041 216 0630	1	Cylinder head screw M 4×8 DIN 84—5.8	
28	1203 442 2800	1	Cable protection hose — standard design	
29	1203 442 2810	1	Cable protection hose — only for U.S.A. and CSSR	
30	1203 641 0300	1	Gear case	
31	1203 640 7300	1	Set of pinions	
33	1203 642 8100	1	Spacer	
34	9503 003 6680	1	Grooved ball bearing 6203 C 3 DIN 625 ZTH	
35	9525 000 0430	1	"Nilos" ring	
36	0000 991 5218	1	"O" ring	
37	1203 641 0900	1	Bearing cover	
38	9062 216 0660	3	Countersunk screw M 4×12 DIN 963—5.8	
39	9045 319 1020	6	Cylinder head screw M 5×20 DIN 912—8.8	
40	9045 319 1070	2	Cylinder head screw M 5×30 DIN 912—8.8	
41	0000 993 0505	1	Needle bearing	
42	1203 642 8800	4	Shim	
43	1203 642 8801	4	Shim	
44	1203 642 8802	4	Shim	
45a	0000 963 0711	2	Bushing	
46	1203 790 7600	1	Support	
47	0000 967 2006	1	Emblem	
48	9441 065 1250	2	Notched pin 2,6×5 DIN 1476	
49	1203 440 2000	1	Connecting cable — standard design	
51	1203 440 2010	1	Connecting cable — only for Norway	
52	1203 440 2015	1	Connecting cable — only for Switzerland	
53	1203 440 2020	1	Connecting cable — only for Italy	
54	1203 440 2025	1	Connecting cable — only for Great Britain and Australia	
55	1203 440 2030	1	Connecting cable — only for South Africa	
56	1203 440 2035	1	Connecting cable — only for U.S.A.	
58	1203 440 2045	1	Connecting cable — only for Sweden	
59	1203 440 2011	1	Connecting cable — only for CSSR	
60	0000 988 8014	2	Screw plug	
Note: Not illustrated, for ground connections				

Illustration B

Bar connecting housing, Chain Sprocket Cover, Oil pump, Hose, Oil tank cover, Spiked bumper



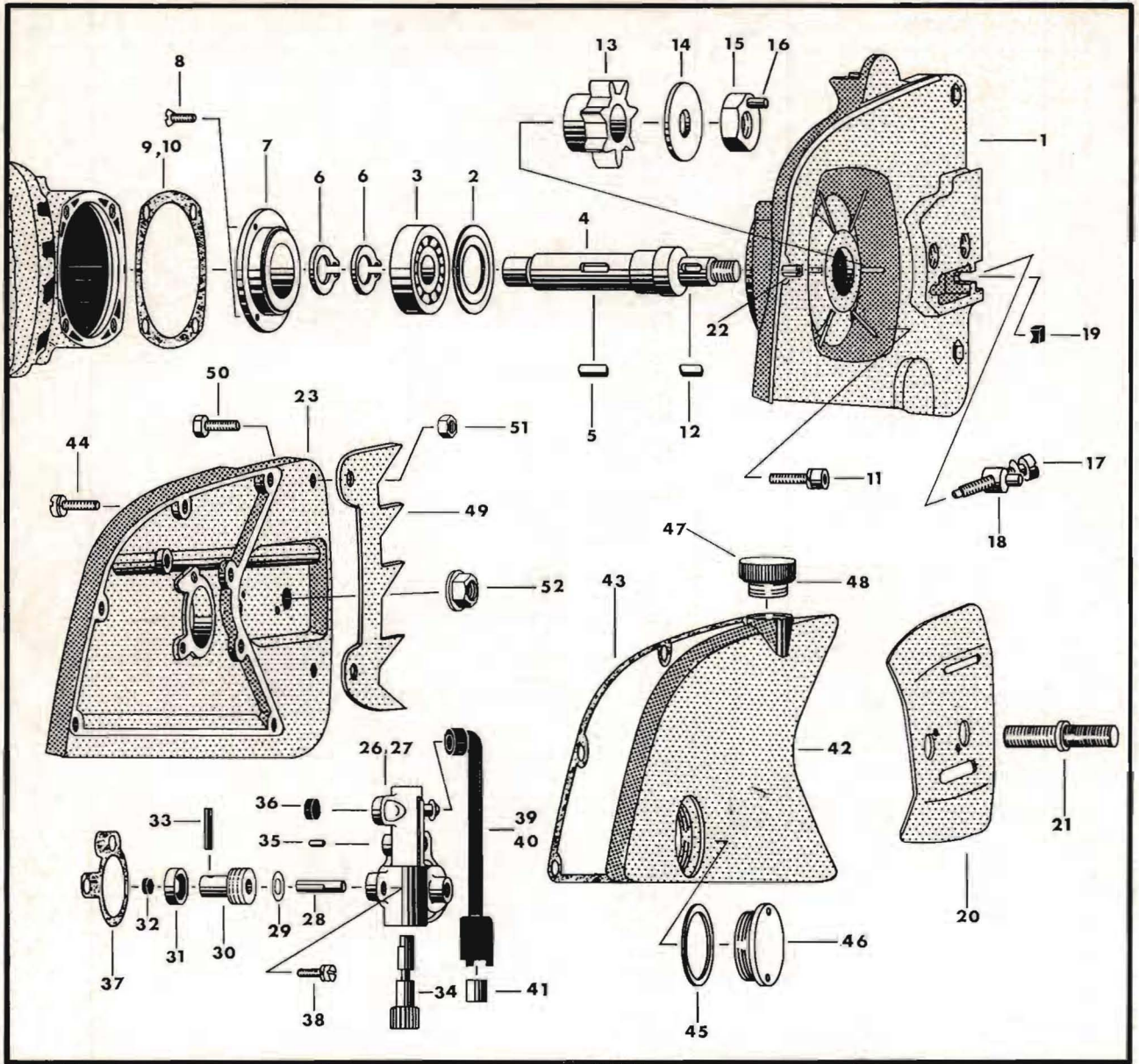
Text to Illustration B

Bar connecting housing, Chain Sprocket Cover, Oil pump, Hose, Oil tank cover, Spiked bumper

Index No.	Part No.	Quantity	Part Name	Remarks
1	1203 641 0500	1	Bar connecting housing	
2	9525 000 0430	1	"Nilos" ring 6203 IV	
3	9503 003 6670	1	Grooved ball bearing 6203 ZC 3 DIN 625	
4	1203 642 0600	1	Drive shaft	
5	9470 435 1370	1	Fitting key A 5×5×16 DIN 6885	
6	9452 621 1530	2	"Seeger" retaining ring	
7	1203 641 0910	1	Bearing cover	
8	9062 216 0660	3	Countersunk screw M 4×12 DIN 963—5.8	
9	1203 649 0310	1	Gasket	
10	1203 649 0320	1	Gasket	
11	9036 341 1010	4	Cylinder head screw M 5×18 Z1 DIN 912—10.9	
12	9470 435 0900	1	Fitting key A 5×3×14 DIN 6885	
13	1203 642 1300	1	Chain drive sprocket $\frac{3}{8}$ " pitch	
14	0000 958 1003	1	Washer	
15	1108 640 8500	1	Nut	
16	0000 971 0315	1	including index No. 16 Grooved fitting pin	
17	1110 664 1600	1	Bar adjusting screw	
18	1110 664 1500	1	Bar adjusting nut	
19	1110 021 9000	1	Clamping piece	
20	1110 664 1000	1	Inner guide plate	
21	1110 664 2400	2	Collar screw	
22	9385 620 2110	1	Clamping sleeve 4×16 DIN 7346	
23	1203 640 2100	1	Chain sprocket cover	
24	1110 664 1100	1	Outer guide blade	
25	9441 065 1910	2	Notched button-head pin 3×8 DIN 1476	
26	1202 640 3210	1	Oil Pump	
27	1202 640 3000	1	composed of index No. 27 to 36 Pump housing	
29	0000 958 0510	1	Washer	
30	1108 647 2000	1	Worm	
0	0000 958 1504	1	Washer	
31	9643 003 0930	1	Seal	
32	1108 649 0100	1	Washer	
33	9380 620 1730	1	Clamping sleeve 3×20 DIN 1481	
34	1202 647 0610	1	Pump piston	
35	9517 003 5050	1	Cylindrical roller 4×8 DIN 5402	
36	1108 649 5000	1	Seal	
37	1202 649 1100	1	Washer	
38	9048 319 0680	2	Cylinder head screw M 4×16 Z4 DIN 84—8.8	

Illustration B

Bar connecting housing, Chain Sprocket Cover, Oil pump, Hose, Oil tank cover, Spiked bumper



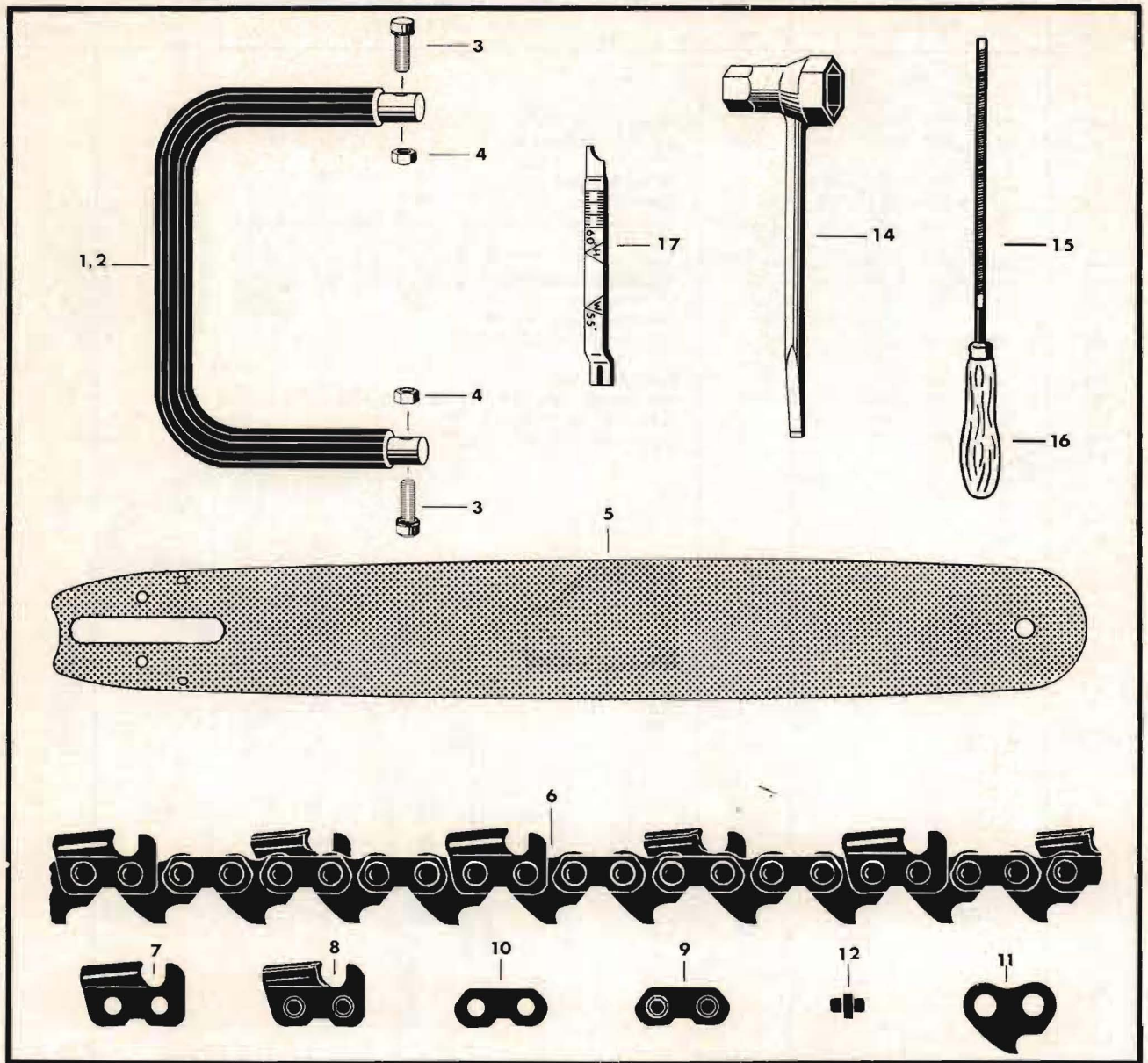
Text to Illustration B

Bar connecting housing, Chain Sprocket Cover, Oil pump, Hose, Oil tank cover, Spiked bumper

Index No.	Part No.	Quantity	Part Name	Remarks
40	1108 647 9401	1	Hose	
41	1106 640 3801	1	Oil pick-up body	
42	1203 351 0800	1	Oil tank cover	
43	1203 649 0300	1	Gasket	
44	9048 319 0680	8	Cylinder head screw M 4×16 Z4 DIN 84—8.8	
45	0000 992 7105	1	Seal	
46	1106 351 2200	1	Oil inspection window	
47	1114 640 3600	1	Oil filler cap	
48	9645 945 2160	1	including index No. 48 "O" ring 20×2,5 DIN 3770—70	
49	1110 664 0501	1	Spiked bumper	
50	9008 319 0960	2	Hex-head screw M 5×12 DIN 933—8.8	
51	9214 320 0700	2	Retaining nut M 5—10	
52	9220 260 1100	2	Collar nut M 8 DIN 1142	

Illustration C

Handle bar, Guide bar, Chain spares, Tools



Text to Illustration C

Handle bar, Guide bar, Chain spares, Tools

Index- No.	Part No.	Quan- tity	Part Name	Re- marks
1	1203 790 1500	1	Handle bar with hose including index No. 2	
2	1203 791 2000	1	Handle bar hose	
3	9048 216 1010	2	Cylinder head screw M 5×18 Z DIN 84—5.8	
4	9214 320 0700	2	Retaining nut M 5 DIN 980—10	
	1113 792 9100	1	Guard	1
			Guide bar	
02	3003 000 9209	1	Guide bar 14 in. (35 cm) bar length	
03	3003 000 9213	1	Guide bar 16 in. (40 cm) bar length	
			Chipper chain 3/8" (9.32 mm) pitch	
04	3825 000 0054	1	for 14 in. (35 cm) bar length	
05	3825 000 0060	1	for 16 in. (40 cm) bar length	
			Chain spares for chipper chain 3/8" (9.32 mm) pitch, 1.6 mm (.063 in.) drive link gauge	
06	3825 662 0400	1	Right-hand cutter	
07	3825 662 0600	1	Left-hand cutter	
08	3724 660 6600	1	Preset tie strap	
09	3718 662 1200	1	Tie strap	
000	3725 662 1000	1	Drive link	
001	3724 662 1600	1	Rivet	
			Safety chipper chain 3/8" (9.32 mm) pitch	
	3845 000 0054		for 14 in. (35 cm) bar length	
	3845 000 0060		for 16 in. (40 cm) bar length	
			Chain spares for safety chipper chains 3/8" (9.32 mm) pitch	
	3825 662 0400		Right-hand cutter	
	3825 662 0600		Left-hand cutter	
	3724 660 6600		Preset tie-strap	
	3718 662 1200		Tie strap	
	3725 662 1000		Drive link	
	3724 662 1600		Rivet	
	3733 662 3901		Right-hand safety link	
	3733 662 4001		Left-hand safety link	
	0000 792 9101		Chain protection	
	1203 890 1400		Set of Tools consisting of Index No. 14 to 18	1
14	1110 890 3400	1	Combination wrench	
15	0811 411 8108	1	Round file 5,6×203	
16	0811 490 7860	1	File handle A 100 DIN 395	
17	1110 893 4000	1	Filing gauge	
18	1203 891 0800	1	Tools kit	
			extras:	
19	1108 890 2500	1	grease gun	
			Note 1: not illustrated	

