

Operating Manual



KS 850 / KS 850 E



Perfection is our aim.

Wilms

I N D E X

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Congratulations! We wish to thank you

for buying this sweeper. You have shown that you do not accept compromises: *you want the best.*

We have prepared this manual to enable you to fully appreciate the qualities and high performance that this sweeper can offer you. Please read it completely before using the machine.

The **CE** mark on your sweeper shows that the product complies with the European Standards on safety.

We can also offer you a wide range of cleaning machines such as:

HIGH PRESSURE CLEANERS, VACUUM CLEANERS, FLOOR CLEANERS and a complete range of **ACCESSORIES, CHEMICALS** and **DETERGENTS** suitable for cleaning all kinds of surfaces.

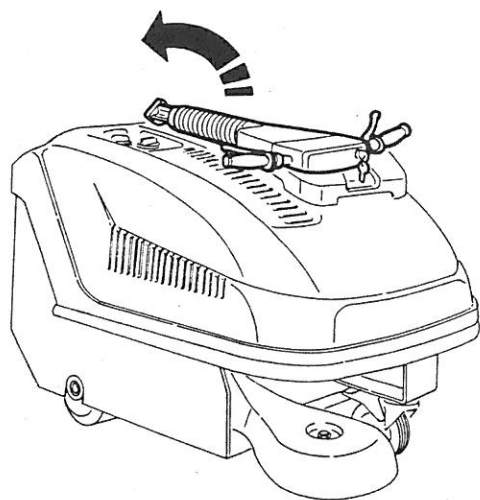
Ask your Dealer for the complete catalogue of our products.

The text has been carefully checked, however any misprints should be notified to the manufacturer. The manufacturer also reserves the right to alter and update this publication without prior notice for the sake of product improvement.

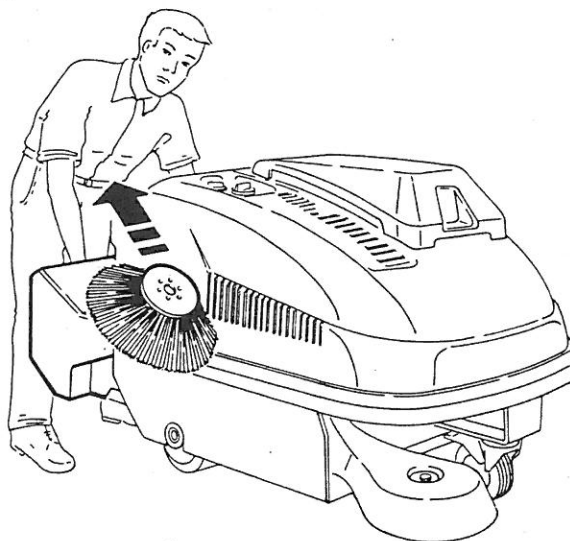
All reproductions of this manual, in whole or in part, are forbidden without the manufacturer's authorization.

PREPARING THE SWEEPER

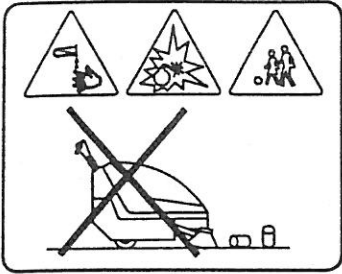
Fitting the handlebar



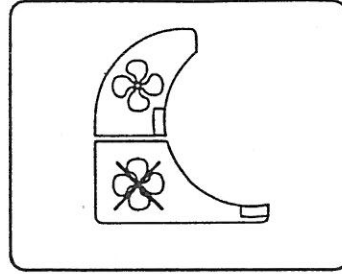
Fitting the side brush



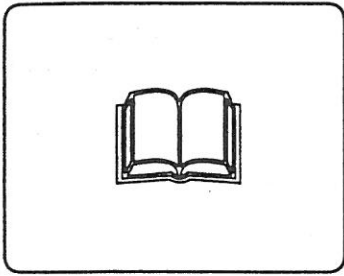
DESCRIPTION OF SYMBOLS ON THE SWEEPER



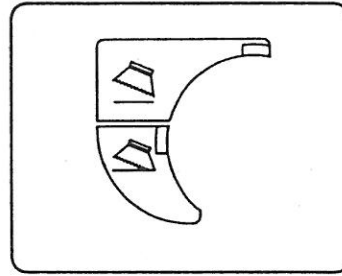
Do not use the sweeper to lift corrosive or explosive waste, or use it in the presence of children.



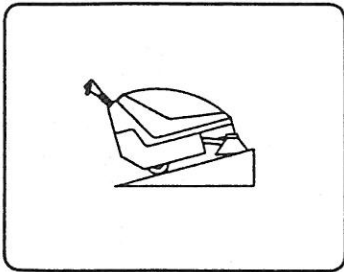
Switching on/off dust suction



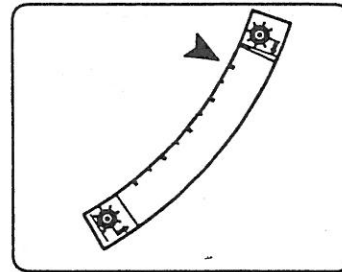
Read this manual before using the sweeper.



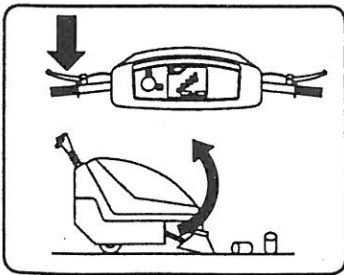
Control for lifting the side brush.



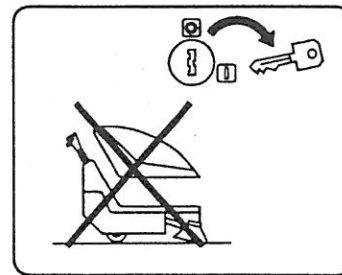
Do not exceed slopes of 15%.



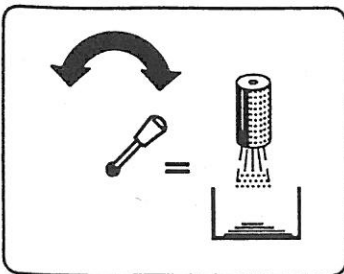
Adjusting the central brush pressure.



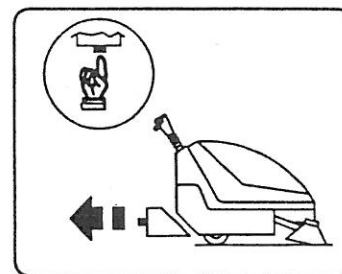
Flap lifting control.



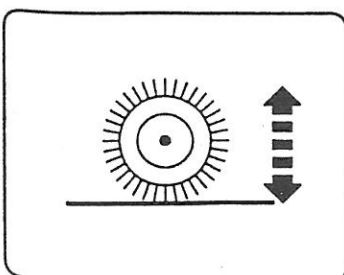
Remove the key before lifting the hood.



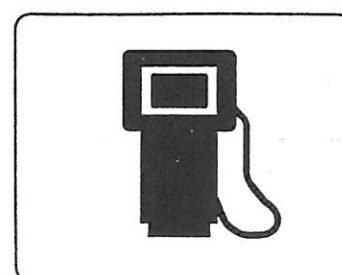
Filter shaking control.



Release the hinge to empty the waste bin.



Control for adjusting the central brush.




Fuel (petrol).


The most important instructions are marked with the symbol:



INTRODUCTION

 This manual must be read before installing, setting up and using the sweeper. The manual is an integral part of the product. It is composed of two parts, one of which is yellow. Read the warnings and instructions in this manual carefully as they provide important indications as to **SAFETY IN USE** and **MAINTENANCE**, paying special attention to the general rules for safety listed in the yellow booklet.

KEEP THIS MANUAL CAREFULLY FOR FUTURE CONSULTATION.

 The person using the sweeper must be aware of the contents of this manual.

INTENDED USE

The sweeper is intended exclusively for cleaning flat dry surfaces, free from foreign bodies with a length of over 30 cm which could catch in the brushes. It is not suitable for use in the rain.

This sweeper must be used only for the purpose for which it was specifically designed.

All other uses are to be considered incorrect and therefore unreasonable.

Examples of unreasonable use:

- Lifting toxic or inflammable waste.
- Using the sweeper to transport or tow things.
- Use on surfaces not suitable for cleaning with a sweeper.

The manufacturer cannot be held responsible for any damage due to improper, incorrect or unreasonable use.

As far as safety rules are concerned, the sweepers are manufactured according to the MACHINES DIRECTIVE 89/352 and subsequent modifications..

PRELIMINARY OPERATIONS

UNPACKING

After unpacking, ensure that the sweeper is undamaged.

If in doubt, do not use the sweeper.

Contact your dealer.

The packing material (bags, boxes, nails, etc.) must not be left within the reach of children as they are potential sources of danger.

FITTING THE SEPARATE PARTS OF THE MACHINE


All the fundamental parts and safety devices of the machine are assembled by the manufacturer.

For reasons of packing and transport, some secondary sweeper parts are supplied separately.

The user must fit these parts as explained in the instructions supplied in each assembly kit.

PREPARING THE BATTERY

For models with an electric motor

 Sulphuric acid is used at this stage; if the acid comes in contact with the skin, eyes or clothes, it may cause severe burns. If this should happen, wash with plenty of clean water and consult a doctor.

Use suitable protection to prevent contact with sulphuric acid.

Before using the battery, charge it for at least 8 hours.

For safety reasons the battery is supplied without electrolytic fluid.


ACTIVATING THE BATTERY

- Remove the battery caps.
- Pour in a solution of sulphuric acid until the plates of the individual elements are covered.
- Let the battery sit at rest for 2 hours.
- Top up with more acid to make up the amount absorbed by the elements. The acid level must cover 5 mm above the edge of the elements.
- Put the caps back on the battery.
- Fit the battery into its housing.
- Connect the cable terminals to the battery, respecting the polarity.
- Before using the sweeper, charge the battery for at least 8 hours.

ATTENTION: Do not invert the polarity of the battery connections, this would cause a risk of explosion.

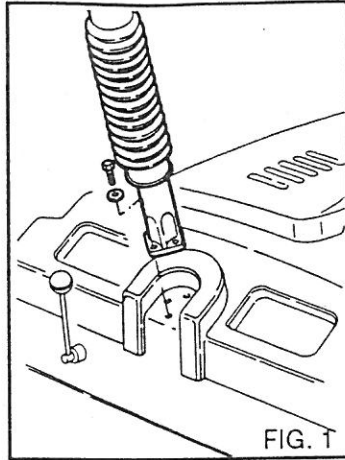
DATA PLATE:

The data plate bearing the main technical characteristics of your sweeper is located on the body and is always visible.

 When buying your sweeper, ensure that it has an identification plate. If there is no plate, inform the manufacturer and/or the dealer immediately. Machines without a plate must not be used and the manufacturer declines all responsibility for them. Products without a plate must be considered anonymous and potentially dangerous.

FITTING THE HANDLEBAR

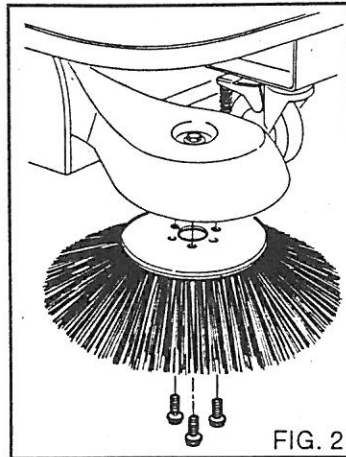
Put the handlebar into position (fig. 1) and anchor it using the four screws provided with the machine.



FITTING THE SIDE BRUSH

Fit the brush onto the brush-holder using the three screws provided (fig. 2).

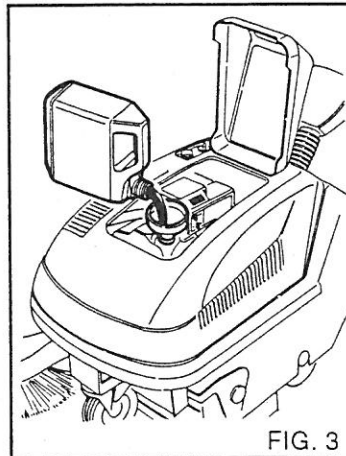
For transport reasons, the brush is packed inside the waste bin.



SWEEPERS WITH A PETROL ENGINE

Filling with fuel

Fill the tank (fig. 3) with petrol (preferably unleaded), while the machine is cold.



⚠ Be careful not to spill any petrol while filling the tank. If this should happen, dry it up with an absorbent cloth and make sure that everything is perfectly dry before switching on the motor.

⚠ While filling the tank, do not smoke, light matches or cause sparks; these present the risk of fire or explosion.

⚠ Never **over-fill** the tank (there must not be any petrol in the filling neck).
Ensure that the cap is perfectly closed after filling.

⚠ Petrol is highly inflammable and explosive. Perform filling operations with extreme care.

For further information, read the motor instructions booklet.

⚠ Do not use different fuel from that indicated on the identification plate.

⚠ Never fill the petrol tank with the engine running.

⚠ Keep the petrol cans in a safe place, out of the reach of children.

COMMAND AND CONTROL DEVICES

Before using the sweeper, it is essential to know the function of the machine's command and control devices.

When performing this operation, follow the descriptions in the instructions manual, referring to the respective illustrations.

IMPORTANT

Solid waste (e.g. boxes), chemicals, corrosive products and solvents can cause severe damage to the sweeper.

⚠ Failure to observe the above warning frees the manufacturer from all responsibility and constitutes negligent use of the product.

GENERAL WARNINGS FOR USE

⚠ The sweeper must not be used by children, teenagers or incapable persons (under the influence of alcohol, etc.).

⚠ Do not use the sweeper when there are people or animals within its operating radius.

⚠ Do not use the sweeper on completely wet surfaces or in the rain.

⚠ The use of the sweeper must be assessed according to the type of cleaning to be done. The safety regulations and conditions for the places in which it is being used must be complied with (e.g. fuel stations, public places, etc.).

⚠ Do not block the openings or gaps for ventilation, heat loss, or the exhaust pipe.

⚠ Do not touch the silencer with your hands to avoid the risk of burning.

⚠ In the event of breakdown and/or malfunction of the appliance, switch it off and do not tamper with it.

Apply to one of our technical service centres.

⚠ Failure to observe the above warning frees the manufacturer from all responsibility and constitutes negligent use of the product.

SWEEPERS WITH AN ELECTRIC MOTOR

- ⚠ Do not open the cover of the sweeper while the motor is running.
- ⚠ Switch off the machine by turning the key to position "0".
- ⚠ Do not change the fuse with the key in position "1".
- ⚠ Do not recharge the battery by making a connection to the battery terminals; use the socket provided.

BATTERIES

- ⚠ The battery produces explosive gases; do not go near it with naked flames or cause sparks, to avoid the risk of explosion.
- ⚠ The battery contains sulphuric acid; if acid comes in contact with the skin, eyes or clothing it may cause severe burns. If this should happen, wash with plenty of clean water and consult a doctor.
- ⚠ Recharge the battery in a well-ventilated place; inflammable gases are produced during recharging.

General rules for using the sweeper

- ⚠ Avoid picking up string, wire, etc.; these could get stuck in the bristles of the central brush and cause severe damage to the sweeper.
- ⚠ Avoid using the sweeper on puddles or very wet floors.
- ⚠ Avoid lifting very fine or hygroscopic dust (e.g. cement), as this could clog and spoil the filter.

USING THE SWEEPER WITH A PETROL ENGINE

CONTROLS

- A - Motor on/off switch
- B - Advance control
- C - Flap lifting control
- D - Control for lifting the side brush
- E - Control for switching dust suction on/off
- F - Filter shaker control

STARTING

1) Raise the hatch on the cover.

2) Turn the petrol valve to **ON** position (fig. 4) (Honda motor).

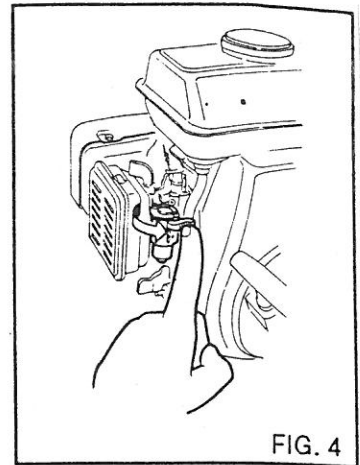


FIG. 4

3) Set the starter lever in **CLOSE** position (Honda motor) or **CHOKE** position (B&S motor) (fig. 5).

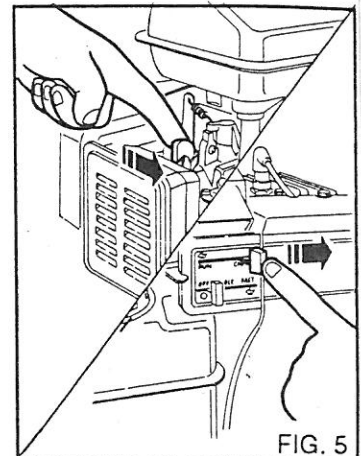


FIG. 5

4) Turn the motor switch to **ON** position (Honda motor). Set the accelerator lever at **FAST** (B&S motor) (fig. 6).

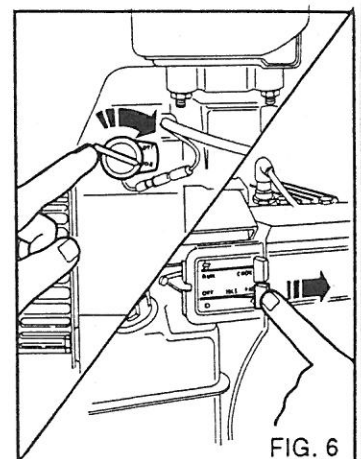


FIG. 6

5) Pull the knob to start the motor (fig. 7).
If the motor does not start after several attempts, wait a few minutes and then repeat the operation

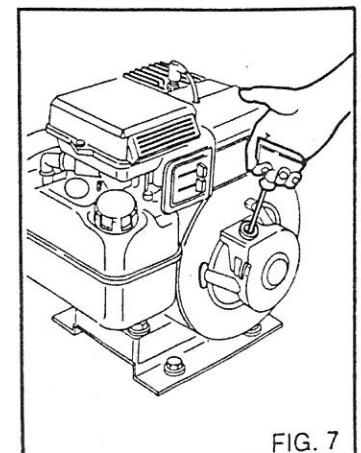
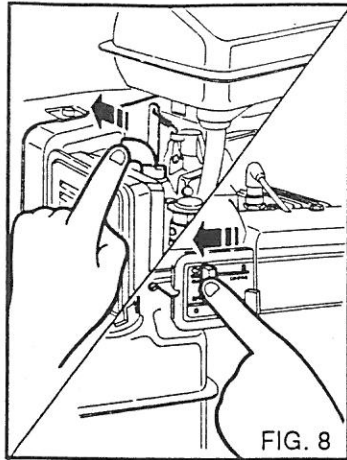


FIG. 7

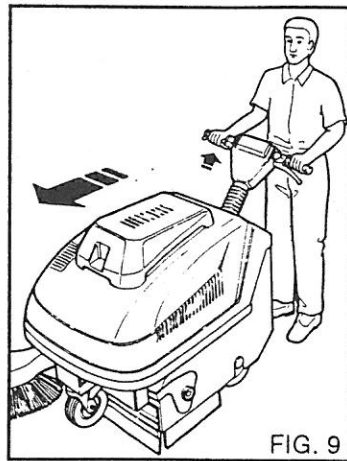
6) Return the starter lever to **OPEN** position (Honda motor).
Return the starter lever to **RUN** position (B&S motor) when the motor has started (fig. 8).

7) Set the accelerator lever in **Max** position.

8) Close the hatch.



9) Start the advance movement of the sweeper by pulling the lever on the handlebar (on the right) (fig. 9).



⚠ To avoid a sudden start it is advisable to pull the machine start lever gradually until maximum speed is reached (about 4 km/h).

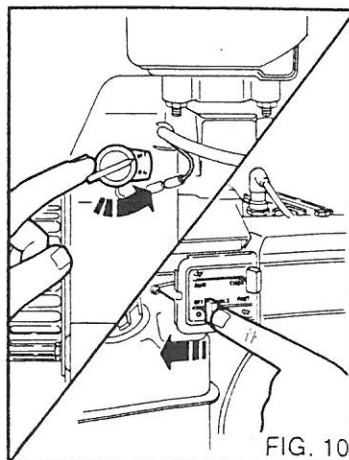
STOPPING THE MOTOR

Be careful with the hot parts.

1) Raise the hatch on the cover.

2) Turn the motor switch to **OFF** position (Honda motor). Set the accelerator lever in **OFF** position (B&S motor) (fig. 10).

3) Turn the petrol valve to **OFF** position (Honda motor) (fig. 4).



USING THE SWEEPER WITH AN ELECTRIC MOTOR

CONTROLS

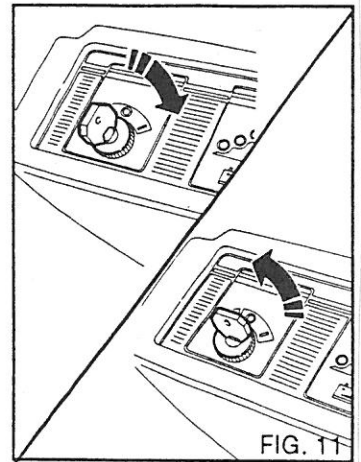
- A - Motor on/off switch
- B - Advance control
- C - Flap lifting control
- D - Control for lifting the side brush
- E - Control for switching dust suction on/off
- F - Filter shaker control
- G - Battery charge status indicators
- H - Ignition key block

STARTING

1) Insert the ignition key and turn it clockwise to position (I) (fig. 11); the pilot lamps on the dashboard will light up (sweeper ready with motor running).

2) Start the advance movement of the sweeper by pulling the lever on the handlebar (on the right) (fig. 12).

⚠ To avoid a sudden start it is advisable to pull the machine start lever gradually until maximum speed is reached (about 4 km/h).



STOPPING THE MOTOR

1) To switch off the motor, turn the key to position (O) (fig. 11); the pilot lamps on the dashboard go off and the motor stops.

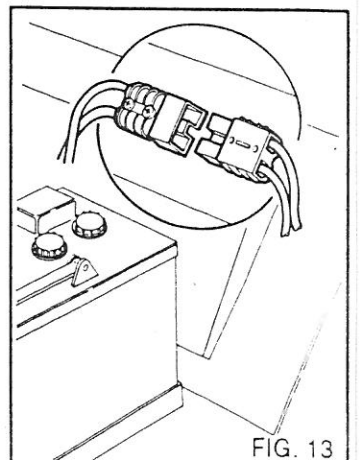


CHARGING THE BATTERY

Charge the battery immediately whenever the green pilot lamps go off. To recharge the battery, use only the socket (fig. 13).

Use our electronic battery chargers which guarantee calibrated charging and prolong the battery life.

Check the level of the electrolytic fluid from time to time, topping up with distilled water if necessary until the elements are completely covered.



⚠ Always use the sweeper with care; do not exceed the slopes described in this manual; do not use the sweeper on very rough or uneven surfaces.

CONTROLS (all models)

ADVANCE

To obtain forward movement of the sweeper, pull the lever on the handlebar towards you (fig. 14) (on the right).

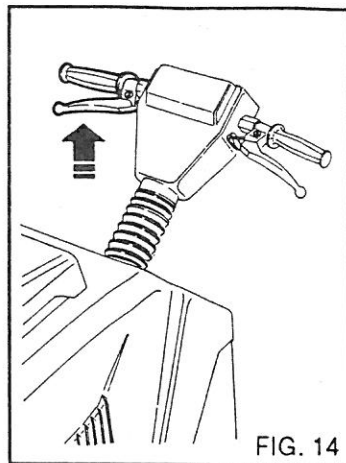


FIG. 14

Release the same lever to stop the machine.

FLAP LIFTING DEVICE

To allow the sweeper to lift bulky solid waste, raise the flap with the lever on the handlebar (fig. 15) (on the left).

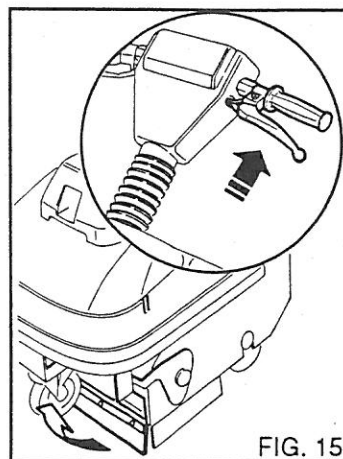


FIG. 15

LIFTING THE SIDE BRUSH

It is advisable to raise the side brush above the ground when shifting the sweeper.

Turn the knob on the cover of the machine in a clockwise direction (fig. 16).

Use the side brush only to clean the corners between the wall and the floor.

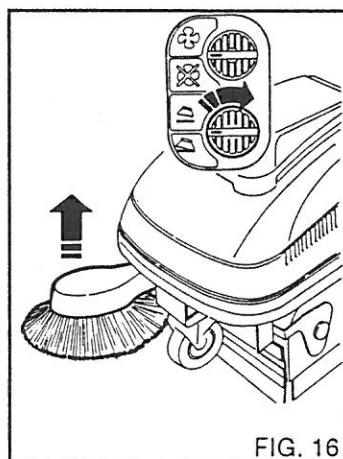


FIG. 16

DUST SUCTION ON/OFF

To avoid deterioration of the paper filter in the presence of wet surfaces, turn the knob (fig. 17) in a clockwise direction to cut off suction.

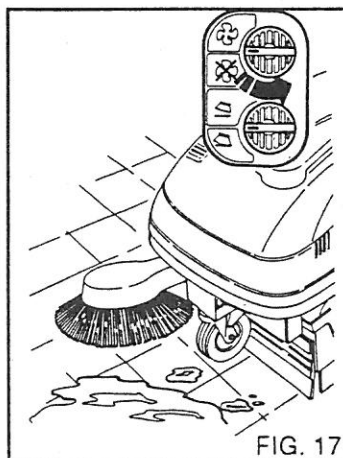


FIG. 17

Restore suction in the presence of dry waste or dry ground (fig. 18) (normal working conditions).

⚠ Do not use the sweeper on puddles or in the rain.

⚠ Do not use the sweeper in environments where there is very fine or hygroscopic dust (e.g. cement) which could clog and spoil the filter.

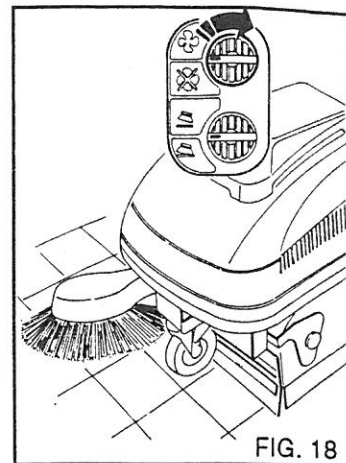


FIG. 18

FILTER SHAKER

Good operation of the sweeper depends on the cleanliness of the filter which must be shaken before emptying the bin.

Pull the lever (fig. 19) repeatedly in a clockwise and anti-clockwise direction with the sweeper switched off.

The waste must be emptied into suitable containers at the end of the work cycle.

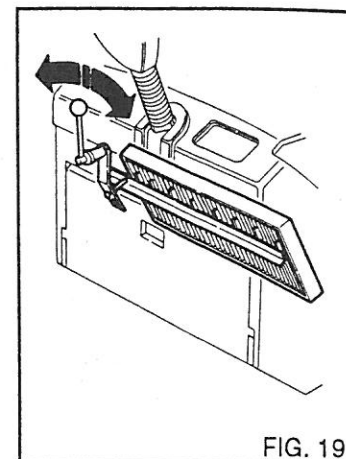


FIG. 19

EMPTYING THE WASTE BIN

Cleaning operations

Release the hinge (fig. 20) and pull out the bin.

Empty the contents of the bin into suitable resistant bags and place these in the refuse collection.

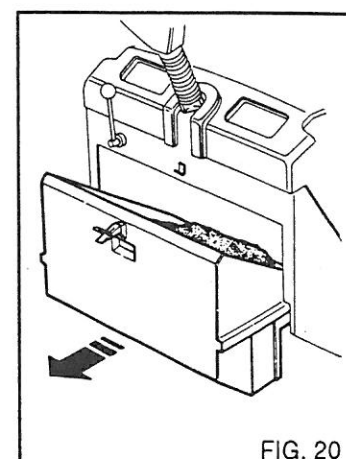


FIG. 20

For the sake of hygiene it is advisable to clean the waste bin frequently.

MAINTENANCE

**ONLY THE OPERATIONS AUTHORIZED IN THIS INSTRUCTIONS MANUAL MAY BE CARRIED OUT BY THE USER.
ALL OTHER OPERATIONS ARE FORBIDDEN.**

⚠ Switch off the cleaner before carrying out any maintenance operations.

Failure to observe the above warning may cause danger (electrical and mechanical risks).

SWEEPER WITH A PETROL ENGINE

1) Motor oil level

Check the motor oil level from time to time, removing the filling cap.

If the oil level is low, top up till it reaches the top of the neck of the filling tube (fig. 21) using SAE 10W30 oil.

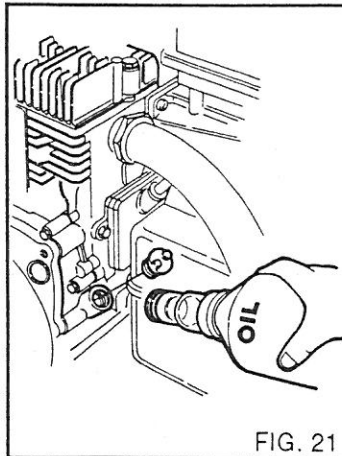


FIG. 21

2) Changing the motor oil

Change the oil after the first 5 hours' work and subsequently every 50 hours, proceeding as follows:

Place the sweeper on a horizontal surface and use the oil drainage tube fixed onto the body (fig. 22).

After draining the oil, put the tube back in its original position.

Fill with SAE 10W30 oil.

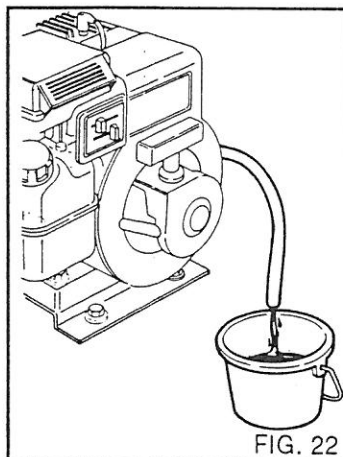


FIG. 22

The old oil must be disposed of by an authorized oil collection and disposal centre.

3) Motor air filter

A dirty air filter reduces the motor performance.

Clean the filter every 50 hours.

Procedure for cleaning the filter:

1) Unscrew the butterfly nut, remove the air filter cover and take out the filtering element (fig. 23).

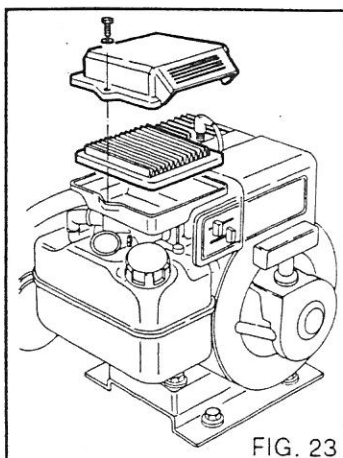


FIG. 23

2) Clean the element with non-inflammable substances and let it dry completely.

3) Immerse the element in clean motor oil and squeeze out the excess oil.

4) Reassemble the air filter element and the cover.

Change the element if it is very dirty.

4) Motor spark plug

From time to time, when the motor is cold, dismantle and clean the spark plug using the special spanner which is available as an accessory. Clean the plug with a wire brush and check the distance between the electrodes which should be 0.7 to 0.8 mm (fig. 24).

Change the plug if it has visible defects.

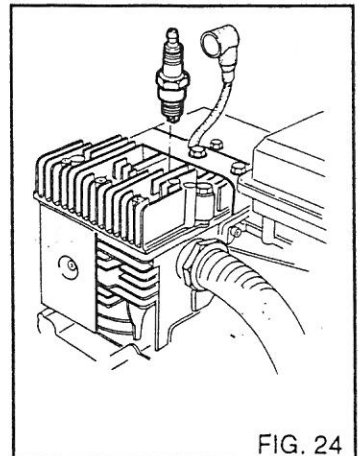


FIG. 24

ELECTRIC SWEEPER

Battery

The sweeper must be used until the battery has completely run down (yellow and red pilot lamps lit on the dashboard). The duration of work must be planned according to the battery life.

Charging the battery

Switch off the sweeper and remove the ignition key.

Open the cover, unscrew the battery caps and check the level of the electrolytic fluid.

Top up if necessary with distilled water.

Close the caps and charge the battery, using the socket provided (fig. 25).

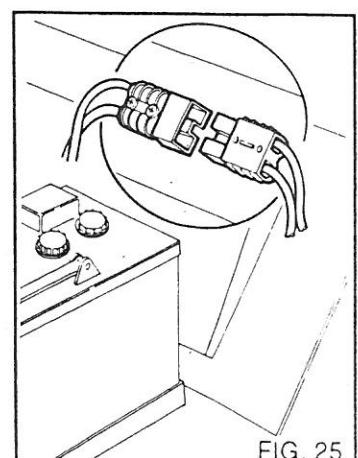


FIG. 25

ALL MODELS

Checking the drive belts

Check the belt efficiency from time to time (about every 100 hours).

If they are cracked or frayed, have them changed immediately by one of our Technical Assistance Centres.

Cleaning the sweeper filter

The filter is normally cleaned with the manual filter shaking device.

The filter **cannot be washed** with liquid products.

Avoid handling the filter with greasy or wet hands.

For complete cleaning of the filter:

- 1) Completely remove the waste bin.
- 2) Remove the filter shaker, being extremely careful so as to avoid tearing the filtering element.
- 3) Slacken the 2 retaining screws of the filter anchoring brackets (fig. 26).
- 4) Slip out the filter.
- 5) Clean the filter with compressed air.

To reassemble the filter, perform the same operations in inverse order.

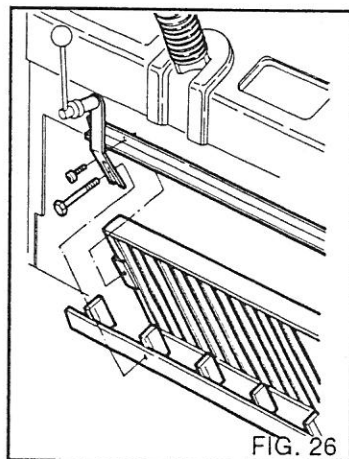


FIG. 26

Adjusting the central brush

For good operation, the central brush must skim the ground.

When the sweeper leaves traces of dirt on the ground, this means that the central brush is worn.

Adjust the brush, proceeding as follows:

- 1) Switch off the motor.

- 2) Remove the cover of the sweeper.

- 3) Release the lock nut (fig. 27) with the spanner provided and turn the knob in a clockwise direction until perfect contact of the brush with the ground is obtained.

- 4) Block the lock nut. The central brush may be adjusted until the last notch on the graded scale is reached, after which it must be replaced by one of our Technical assistance Centres.

Each notch corresponds to a lowering of about 8 mm.

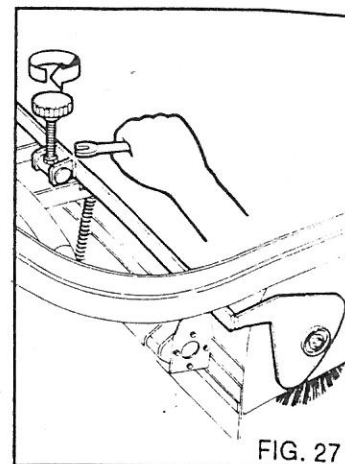


FIG. 27

Adjusting the side brush

The side brush must touch the ground; if it is worn proceed as follows:

- 1) Remove the cover.
- 2) Lower the brush with the control knob.
- 3) Slacken the lock nut "A" (fig. 28) that blocks the adjustment with the spanner provided and adjust the limit stroke screw "B" until the brush touches the ground.
- 4) Block the adjusting screw with the lock nut "A".

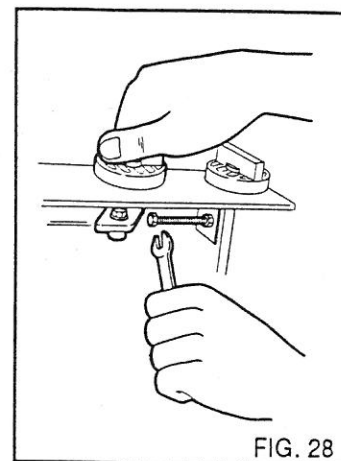


FIG. 28

TABLE OF ROUTINE MAINTENANCE TO BE PERFORMED BY THE USER

Sweeper with petrol motor

Check fuel level	before using the sweeper
1st oil change in motor	after first 5 hours
Subsequent motor oil changes	every 50 hours
Clean motor air filter	every 50 hours
Change motor air filter	every 100 hours
Clean spark plug	every 50 hours
Change spark plug	after 300 hours
Check belt tension	every 50 hours
Clean dust filter	whenever emptying the waste bin

Sweeper with electric motor

Check battery electrolytic fluid level	every 50 hours
Charge battery	whenever the green lamps stay lit
Check belt tension	every 50 hours
Clean dust filter	whenever emptying the waste bin

TABLE OF ROUTINE MAINTENANCE TO BE PERFORMED BY THE TECHNICAL SERVICE CENTRE

For all models

Change belts	after 300 hours
Check and adjust brushes	every 300 hours
Change dust filter	after 1500 hours

IMPORTANT:

These intervals refer to normal working conditions. For heavy duty use decrease the interval for each job. For maintenance and/or repairs, use only original spare parts which offer the greatest characteristics of quality and reliability. Failure to use original spare parts frees the manufacturer from all responsibility.

PERIODS OF INACTIVITY

If the machine is to remain inactive for a long period, disconnect the supply sources (batteries), drain the fuel tank and protect any parts that could be damaged by the accumulation of dust. When bringing back into use, ensure that there are no cracks or cuts in the fuel supply hoses.

SCRAPPING

If you decide that the sweeper is no longer to be used, render it inoperative by removing the batteries. Ensure that all parts of the sweeper that could be a source of danger are made harmless, especially for children who might use the old sweeper for play. As the sweeper is considered special waste, dismantle it and divide the material according to type, then dispose of them as required by the legislation in force. Do not use parts dismantled for scrap as spare parts.


BATTERIES

Due to the dangerous nature of their components (sulphuric acid), batteries should be delivered to an authorized collection and disposal centre.

TROUBLE-SHOOTING

 Before carrying out any operations, switch off the cleaner.

FAULTS	CAUSES	REMEDIES
The petrol engine does not start	No fuel Starter lever in the wrong position Spark plug Clogged air filter	Check. Check position. Clean or change it. Clean or change it.
The petrol engine starts and then stops	Impurities in the fuel Starter lever in the wrong position Dirty air filter Spark plug	Drain and clean the tank. Correct the position. Clean it. Clean it.
The electric motor does not turn over	Fuse Battery	Change it Check charge level, charge it if necessary.
The electric motor turns slowly	Brushes blocked by foreign bodies	Remove and clean.
Motor too noisy	Faulty mechanical parts	Apply to our technical service centre.
Brushes do not turn	Faulty transmission parts	Apply to our technical service centre.
Dirt is not lifted	Central/side brush Clogged filter Waste bin is full Dust suction switched off.	Check brush height Clean or change filter. Empty it. Switch it on.
The sweeper raises dust	Dirty or broken filter Dust suction switched off. Worn flaps	Clean or change the filter. Switch it on. Apply to our technical service centre.

 For all operations on the central/side brush, do not overturn the sweeper. There is the risk of leakage of sulphuric acid or petrol.

IMPORTANT:

For maintenance and/or repairs, use only original spare parts which offer the greatest characteristics of quality and reliability. Failure to use original spare parts frees the manufacturer from all responsibility.

SPARE PARTS LIST KS 850
(Drawing 0701574001)

Pos.	Order No.	Description	Qty.
1	5908001	Housing	1
2	5908002	Support brush right	1
3	5908003	Support brush left	1
4	5908004	Ball bearing	2
5	5908005	Seeger ring	2
6	5908006	Main brush	1
7	5908007	Driver right	1
8	5908008	Driver left	1
9	5908009	Rubber ledge right/left	2
10	5908010	Rubber ledge front	1
11	5908011	Rubber ledge rear	1
12	5908012	Fixing plate rubber ledge right	1
13	5908013	Fixing plate rubber ledge left	1
14	5908014	Fixing plate rubber ledge front	1
15	5908015	Fixing plate rubber ledge rear	1
16	5908016	Fixing plate dirt flap	1
17	5908017	Fixing plate dirt flap	1
18	5908018	Pulley main brush	1
19	5908019	Spacer	1
20	5908020	Support side brush	1
21	5908021	Spacer	1
22	5908022	Ball bearing	1
23	5908023	Pulley side brush	1
24	5908024	Belt 8 x 1100	1
25	5908025	Side brush	1
26	5908026	Spring ring 32 mm	1
27	5908027	Pulley	2
28	5908028	Ball bearing	2
29	5908029	Seeger ring	2
30	5908030	Spacer	2
31	5900831	Support	1
32	5908032	Pivot nut	2
33	5908033	Belt adjuster	1
34	5908034	Bushing	1

SPARE PARTS LIST KS 850
(Drawing 0701574001)

Pos.	Order No.	Description	Qty.
35	5908035	Shell	1
36	5908036	Pulley	1
37	5908022	Ball bearing	1
38	5908026	Spring ring	1
39	5908039	Spacer	1
40	5908040	Spring	2
41	5908041	Axle	1
42	5908042	Wheel	1
43	5900740	Ball bearing	2
44	5908044	Pulley	1
45	5908019	Spacer	1
46	5908046	Wheel	1
47	5908047	Belt A 39	1
48	5908048	Swivel wheel	1
49	5908049	Bushing	1
50	5908050	Pivot	1
51	5908051	Lever	1
52	5908052	Knob	1
53	3308053	Gasket	m
54	5908054	Filter	1
55	5908055	Filter strap	2
56	5908056	Filter shaker	1
57	5908057	Axle	1
58	5908058	Pulley	1
59	5900555	Support	2
60	5908060	Gear	1
61	5908061	Pulley	1
62	5908062	Handle	1
63	5908063	Pulley	1
64	5908064	Gear	1
65	5908065	Spacer	1
66	5908066	Ball bearing	1
67	5908067	Spacer	1
68	5908068	Belt 10 x 755	1
69	5908069	Fan housing	1
70	5908070	Gasket	1

SPARE PARTS LIST KS 850
(Drawing 0701574001)

Pos.	Order No.	Description	Qty.
71	5908071	Gasket fan housing	1
72	5908072	Throttle	1
73	5908073	Rods	1
74	5908074	Driver	1
75	1138604	Knob	1
76	5908157	Instrument housing	1
77	5908077	Support	1
78	5908078	Adjusting knob	1
79	5908079	Adjusting screw	1
80	5908080	Adjusting bolt	1
81	5908160	Motor Honda G 100	1
83	5908142	Pulley	1
84	5908084	Impeller	1
85	5908085	Cover	1
86	5908086	Nut	1
87	5908143	Hose nipple	1
88	1130046	Hose clamp	2
89	5908144	Hose	1
90	5908145	Hose nipple	1
91	5908146	Clamp	1
92	5908092	Belt 10 x 640	1
93	5908093	Steering post	1
94	5908094	Protection pipe	2
95	5908095	Handle left	1
96	5908096	Handle right	1
97	5908097	Wire protection cover	1
98	5908098	Wire	2
99	5908099	Wire protection cover	1
100	5908100	Handle	2
101	5908101	Protection cover	1
102	3308062	Absorber	4
103	5908147	Exhaust pipe	1
104	5908104	Clamp	1
105	5908105	Adjusting screw	2

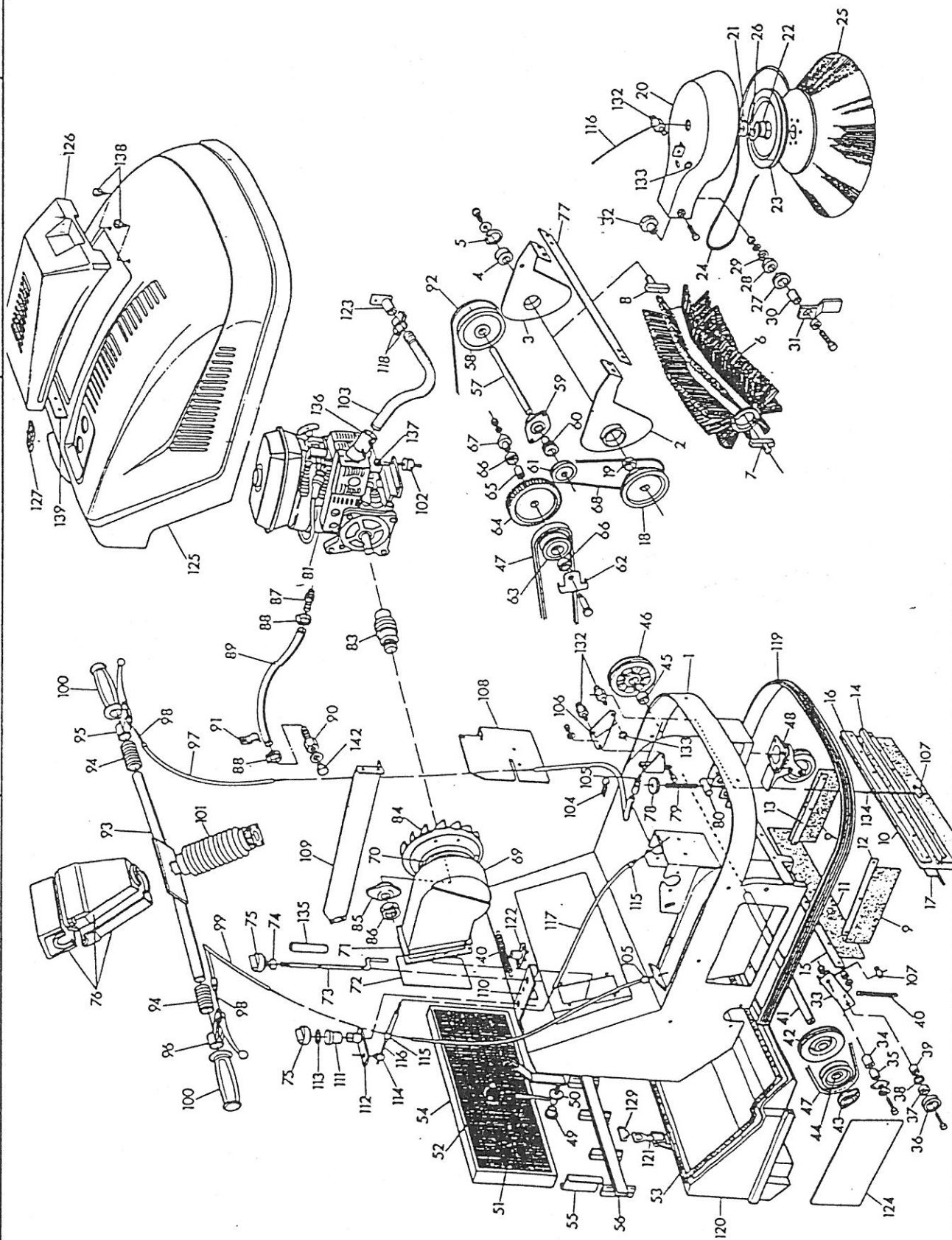
SPARE PARTS LIST KS 850
(Drawing 0701574001)

Pos.	Order No.	Description	Qty.
106	5908135	Support	1
107	5900747	Clamp	2
108	5908148	Cover plate	1
109	5908149	Support	1
110	5908110	Support	1
111	5908111	Bushing	1
112	5908112	Lever	1
113	5908113	Spring ring	1
114	5908114	Clamp	1
115	5908115	Shell	2
116	5908116	Traction	1
117	5908117	Wire protection cover	1
118	5908150	Clamp	1
119	5908119	Absorber	1
120	5908120	Dirt container	1
121	5900591	Clamp	1
122	5908151	Switch	1
123	5908152	Bushing	1
124	5908124	Cover plate	1
125	5908125	Cap	1
126	5908126	Cover	1
127	5908127	Joint	2
129	5900821	Support	1
132	5908136	Screwing clamp	3
133	5908137	Seeger ring	3
134	5908138	Traction	1
135	5908153	Spacer	1
136	5908154	Adapter	1
137	5908155	Spacer	2
138	5908139	Plug	2
139	5908140	Reinforcement plate	1
142	5908156	Plug	1

DATE: 2.10.95

Exploded view drawing KS 850

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SPARE PARTS LIST KS 850 E
(Drawing 0701573001)

Pos.	Order No.	Description	Qty.
1	5908001	Housing	1
2	5908002	Support brush right	1
3	5908003	Support brush left	1
4	5908004	Ball bearing	2
5	5908005	Seeger ring	2
6	5908006	Main brush	1
7	5908007	Driver right	1
8	5908008	Driver left	1
9	5908009	Rubber ledge right/left	2
10	5908010	Rubber ledge front	1
11	5908011	Rubber ledge rear	1
12	5908012	Fixing plate rubber ledge right	1
13	5908013	Fixing plate rubber ledge left	1
14	5908014	Fixing plate rubber ledge front	1
15	5908015	Fixing plate rubber ledge rear	1
16	5908016	Fixing plate dirt flap	1
17	5908017	Fixing plate dirt flap	1
18	5908018	Pulley main brush	1
19	5908019	Spacer	1
20	5908020	Support side brush	1
21	5908021	Spacer	1
22	5908022	Ball bearing	1
23	5908023	Pulley side brush	1
24	5908024	Belt 8 x 1100	1
25	5908025	Side brush	1
26	5908026	Spring ring 32 mm	1
27	5908027	Pulley	2
28	5908028	Ball bearing	2
29	5908029	Seeger ring	2
30	5908030	Spacer	2
31	5908031	Support	1
32	5908032	Pivot nut	2
33	5908033	Belt adjuster	1
34	5908034	Bushing	1

SPARE PARTS LIST KS 850 E
(Drawing 0701573001)

Pos.	Order No.	Description	Qty.
35	5908035	Shell	1
36	5908036	Pulley	1
37	5908022	Ball bearing	1
38	5908026	Spring ring	1
39	5908039	Spacer	1
40	5908040	Spring	2
41	5908041	Axle	1
42	5908042	Wheel	1
43	5900740	Ball bearing	2
44	5908044	Pulley	1
45	5908019	Spacer	1
46	5908046	Wheel	1
47	5908047	Belt A 39	1
48	5908048	Swivel wheel	1
49	5908049	Bushing	1
50	5908050	Pivot	1
51	5908051	Lever	1
52	5908052	Knob	1
53	3308053	Gasket	m
54	5908054	Filter	1
55	5908055	Filter strap	2
56	5908056	Filter shaker	1
57	5908057	Axle	1
58	5908058	Pulley	1
59	5900555	Support	2
60	5908060	Gear	1
61	5908061	Pulley	1
62	5908062	Handle	1
63	5908063	Pulley	1
64	5908064	Gear	1
65	5908065	Spacer	1
66	5908066	Ball bearing	1
67	5908067	Spacer	1
68	5908068	Belt 10 x 755	1
69	5908069	Fan housing	1
70	5908070	Gasket	1

SPARE PARTS LIST KS 850 E
(Drawing 0701573001)

Pos.	Order No.	Description	Qty.
71	5908071	Gasket fan housing	1
72	5908072	Throttle	1
73	5908073	Rods	1
74	5908074	Driver	1
75	1138604	Knob	1
76	5908076	Instrument housing	1
77	5908077	Support	1
78	5908078	Adjusting knob	1
79	5908079	Adjusting screw	1
80	5908080	Adjusting bolt	1
81	5908081	Motor	1
82	5908082	Motor plate	1
83	5908083	Pulley	1
84	5908084	Impeller	1
85	5908085	Cover	1
86	5908086	Nut	1
87	5908087	Cable clamp plus	1
88	5908088	Cable clamp min.	1
89	5908089	Protection cap plus	1
90	5908090	Protection cap min.	1
91	5900711	Charging plug	1
92	5908092	Belt 10 x 640	1
93	5908093	Steering post	1
94	5908094	Protection pipe	2
95	5908095	Handle left	1
96	5908096	Handle right	1
97	5908097	Wire protection cover	1
98	5908098	Wire	2
99	5908099	Wire protection cover	1
100	5908100	Handle	2
101	5908101	Protection cover	1
102	5908102	Key holder	1
103	5908103	Control	1
104	5908104	Clamp	1
105	5908105	Adjusting screw	2

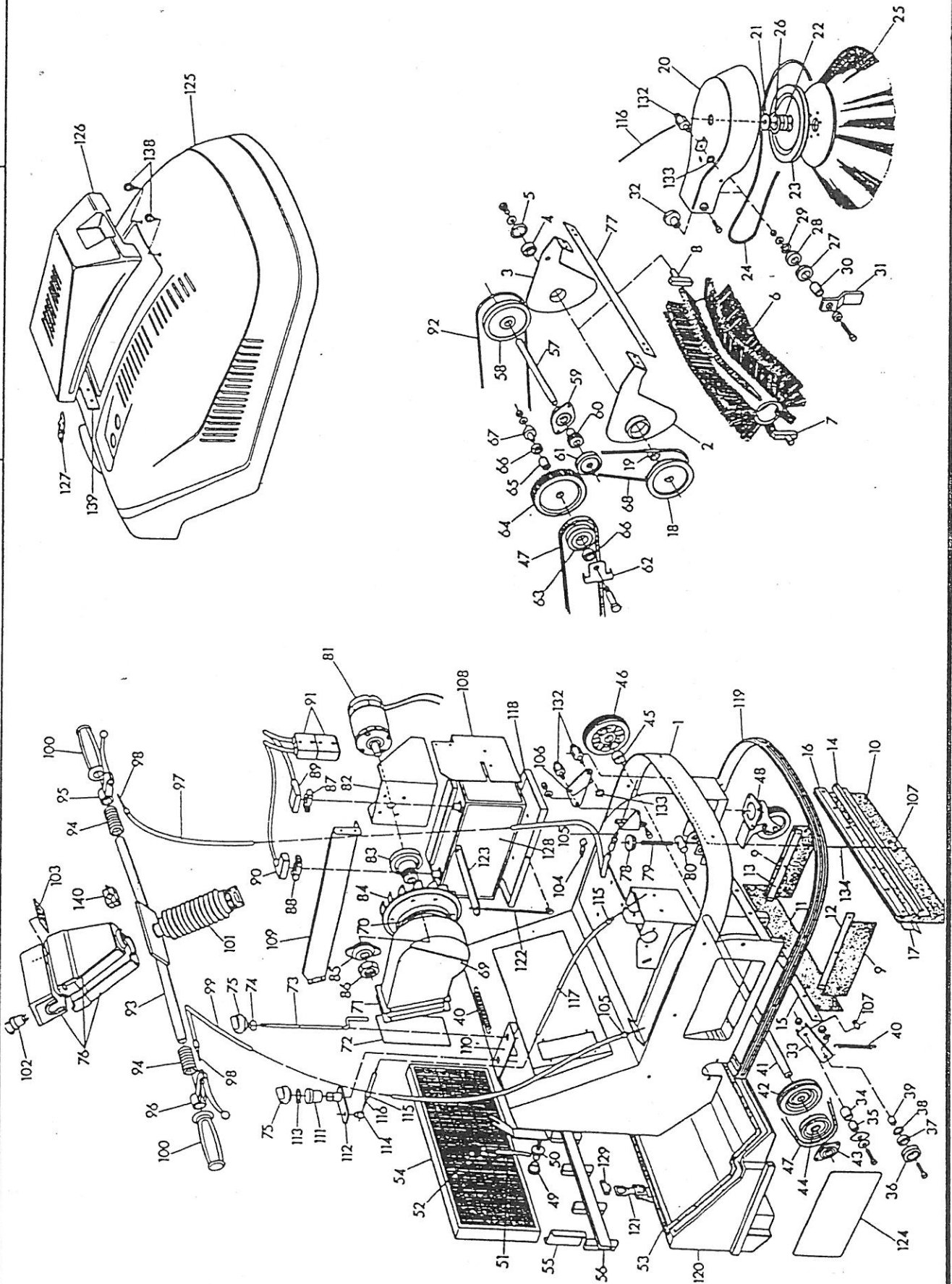
SPARE PARTS LIST KS 850 E
(Drawing 0701573001)

Pos.	Order No.	Description	Qty.
106	5908135	Support	1
107	5900747	Clamp	2
108	5908108	Cover plate	1
109	5908109	Support	1
110	5908110	Support	1
111	5908111	Bushing	1
112	5908112	Lever	1
113	5908113	Spring ring	1
114	5908114	Clamp	1
115	5908115	Shell	2
116	5908116	Traction	1
117	5908117	Wire protection cover	1
118	5908118	Battery support	1
119	5908119	Absorber	1
120	5908120	Dirt container	1
121	5900591	Clamp	1
122	5908122	Stay bar battery	1
123	5908123	Retaining plate	1
124	5908124	Cover plate	1
125	5908125	Cap	1
126	5908126	Cover	1
127	5908127	Joint	2
128	5940002	Battery 12 V 140 AH	1
129	5900821	Support	1
132	5908136	Screwing clamp	3
133	5908137	Seeger ring	3
134	5908138	Traction	1
138	5908139	Plug	1
139	5908140	Reinforcement plate	1
140	3309013	Cable clamp	1

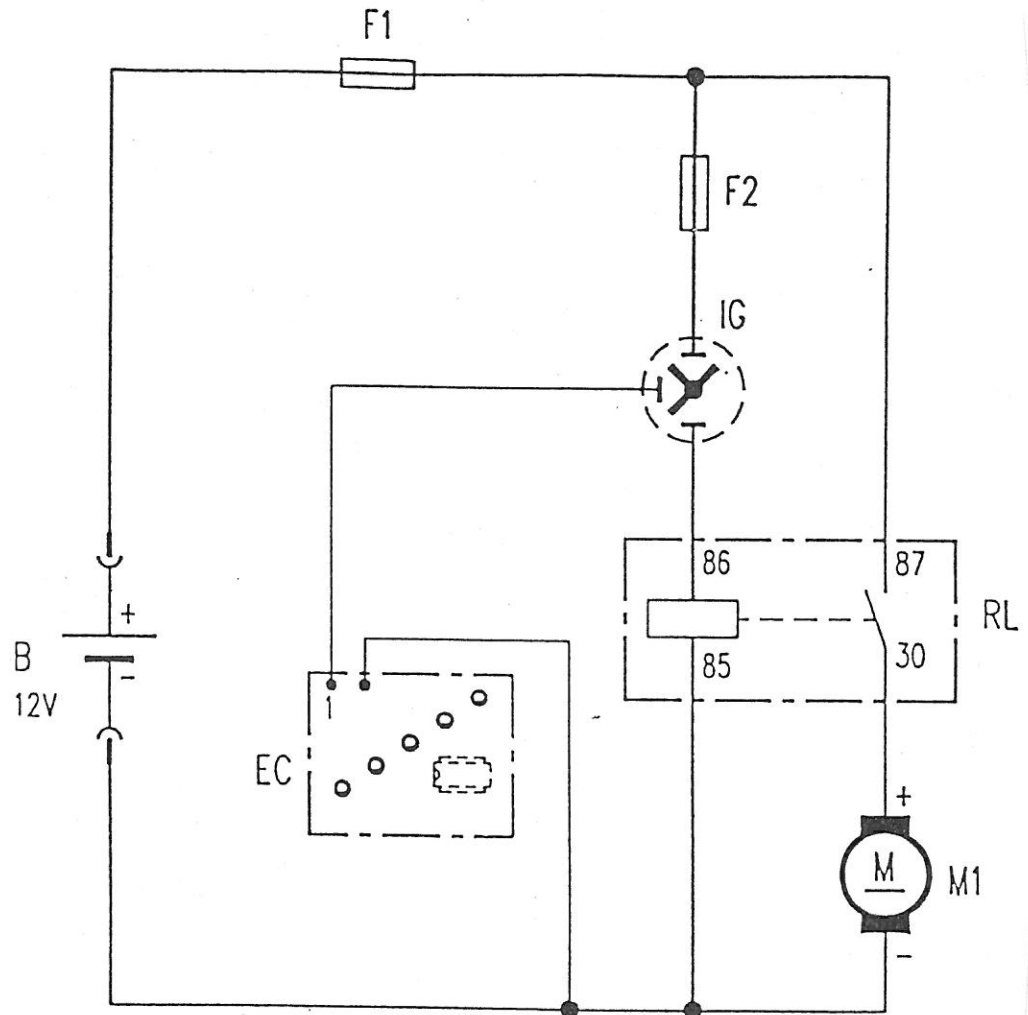
DATE : 2.10.95

Exploded view drawing KS 850 E

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WIRING DIAGRAM KS 850 E
(Drawing 0400185001)



Pos.	Order No.	Description	Qty.
F1	5908130	Fuse 50 A	1
F2	3309683	Fuse 0.5 A	1
EC	5908103	Control	1
IG	5908102	Key switch	1
M1	5908081	Motor	1
RL	5908131	Relay	1
B	5940002	Battery 12 V 140 AH	1