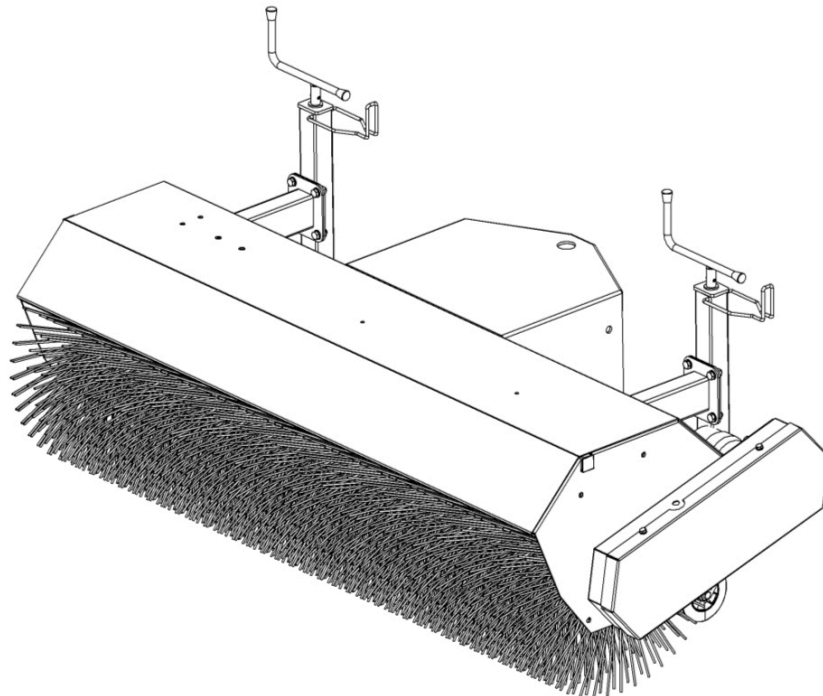




Instruction Manual

Sweepers for tractors

KM 12537 M-ABR 37 KM 12537 H-ABR 37



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Kersten
SITE MAINTENANCE EQUIPMENT

Telephone: 0118 9869 253

Email: office@kerstenuk.com

Progress House, 39 Boulton Road, Reading, Berkshire, RG2 0NH, United Kingdom

<https://kerstenuk.com/>

TABLE OF CONTENTS

1	PREFACE.....	3
2	ABOUT THIS MANUAL 4	
2.1	HASBEFORE L'USE.....	4
2.2	NNOTES RELATING TO THIS MODE OF'JOB.....	4
3	SAFETY INSTRUCTIONS 5	
3.1	IGENERAL INFORMATION.....	5
3.2	DOMAINE D'USE.....	5
3.3	CGENERAL SAFETY AND ACCIDENT PREVENTION INSTRUCTIONS 5	
3.3.1	Basic rule	5
3.3.2	Work area and danger	6
3.3.3	Before starting work	6
3.3.4	Starting the machine	6
3.3.5	During use	7
3.3.6	Stopping the machine	7
3.3.7	Tires and screwed elements	7
3.3.8	Maintenance, cleaning and repair	7
3.3.9	Engine, fuel and oil	8
3.4	UUSE PICTOGRAMS.....	9
4	ELIMINATION.....	10
5	EC DECLARATION OF CONFORMITY 11	
6	WARRANTY 12	
7	INSTALLING THE POWER TAKE-OFF 13	
7.1	MSTARTING THE SWEEPER AND ADJUSTING THE BIN.....	13
7.2	RADJUSTING THE TRAY.....	13
8	TECHNICAL CHARACTERISTICS 14	
9	REPLACING THE BRUSH 15	



1 PREFACE

Dear customer,

Thank you for choosing a quality product from Kersten.

This product has been manufactured using modern production processes and quality assurance measures, because if you are satisfied with your product, our goal has been achieved.

Before using this machine for the first time, read these instructions carefully and completely.

If you do not understand any part of this document, please contact your dealer or the machine manufacturer directly.

Keep this manual handy. You can read instructions and important information later if necessary.

I wish you much satisfaction with your Kersten equipment.

Dipl.-ing. (FH) Robert Bosch

General manager



2 ON THIS INSTRUCTION MANUAL

This machine or this is subject to technical improvements. All information, illustrations and specifications are correct at the time of publication. Changes in the direction of technical progress may be made by the manufacturer at any time.

No claims can be accepted on the data and illustrations in this manual.

2.1 ABEFORE L'USE



- Due to the significant risk of accidents for persons using self-propelled work equipment, training by specialized and authorized persons is mandatory before the initial commissioning of the Kersten work unit.
- You can familiarize yourself with its basic features and handling by choosing a flat, obstacle-free area for your first use.
- Reduce the risk of accidents for yourself or a third party!
- For further information and difficulties encountered, please contact the distributor, importer or manufacturer directly.
- In any case, read the safety instructions on the following pages! Remember
- to read the instructions carefully beforehand!
- Pass all safety instructions on to other users!

2.2 NNOTES RELATING TO THIS MODE OF'JOB

Bulleted list marked with dots.

Example:

Text
Text

Instructions marked in order of execution.

Example:

1) Text

2) Text

This manual references the different chapters, illustrations and their components. The illustrations are numbered 1, 2, 3, etc. and the components A, B, C etc.

Example:

The reference to component C in Figure 2 is noted (Fig. 2: C).

3 SAFETY INSTRUCTIONS

The instructions given in this manual cannot cover all possibilities. It goes without saying that common sense and caution are factors that must be used by anyone who uses the machine.

To minimize the risk of accidents, read the following subchapters carefully.

3.1 IGENERAL INFORMATION



- This symbol indicates a warning. Failure to follow the instructions in this manual may result in serious injury and/or damage.



- The operating instructions and safety instructions must be read carefully before starting to use the machine.

3.2 DOMAINE D'USE



- This single-axle, push-type tool carrier, with its weeding brush, is designed to eliminate weeds and moss in urban environments.
- Any other use is incorrect and the manufacturer cannot be held liable for any resulting damage. The operator alone bears the risk.
- Compliance with the manufacturer's prescribed maintenance and repair operations must be respected.
- The use of the machine, its maintenance and repair must only be carried out by personnel trained and informed of the risks.
- Accident prevention instructions, hygiene and safety rules must be respected.
- Any unauthorized modification of the machine results in the exclusion of the manufacturer's liability for any damage that may result.

3.3 CGENERAL SAFETY AND ACCIDENT PREVENTION INSTRUCTIONS

3.3.1 Basic rule



-In addition to the instructions in this manual, observe the generally applicable safety rules on accident prevention!

Do not allow anyone under 16 years of age to use the machine, even under adult supervision.

- Only trained personnel or persons may use this machine! Traffic regulations on public roads must be respected!
- This machine is not intended for public transport.
- Rotating parts can cause serious injury. The operator must ensure that no person or animal comes into contact with these parts.
- The operator must wear tight-fitting clothing and good safety shoes or boots! Work must only be done in good light and visibility conditions!

- In areas with reduced visibility, stop the machine and check that no one is in the danger zone.
- Warning and information signs provide important information for safe operation. This is the guarantee of your safety!
- For transport in a vehicle or trailer, the machine must be stationary and the fuel tap closed!
- Be careful when rotating or swinging the tool, keep a safe distance! Be careful before
- working on the machine. Wait for it to stop completely!
- Some parts can cause pinching or cuts! Transport of people and
- objects is prohibited!
- Unauthorized modifications are prohibited and endanger the operational safety of the machine!
- Do not make any changes to the maximum no-load speed of the engine. High speed increases the risk of accidents.
- Before each use check the machine for safe use! Never modify or
- remove protective equipment!
- Never go to the repair shop or for an inspection with an unsecured machine!

3.3.2 Work area and danger



- The user is responsible for people in the work area!
- Parking of people in the danger zone of the machine is prohibited. Danger zone: 10 m radius.
- Before starting the machine, check the immediate environment. Pay particular attention to children or animals and to sufficient visibility!
- Before starting work, remove all foreign objects from the work area.
- When working in tight spaces, a safe distance must be maintained to avoid damage to the machine and tools.
- When working on public roads and approaching intersections, take extra care to minimise the risk of injury to third parties from flying objects.
- Work on public roads must be done after the installation of traffic signs.
- Due to the risk of injury from thrown objects, protective eyewear is required. In this case, approved safety eyewear is that which meets the ANSI Z87.1 standard for the United States or EN 166 for European Union countries.



3.3.3 Before starting work



- Before starting work, familiarize yourself with the various components and controls and their function. Make sure that the protective equipment is present and correctly positioned. When using the machine, it is too late!
- Before each use, check the machine for safe use! Check the hydraulic hoses and fittings and replace them if there is a leak.
- Never operate the machine with missing or damaged safety devices. Learn how to
- quickly and safely stop the engine.

3.3.4 Starting the machine



- When starting the machine, all controls must be off! The engine must never be
- started in an enclosed space!

- Do not start the engine before the implement is attached.
- Do not use starting fluid when using a Booster - Risk of explosion!

3.3.5 During use



- Check that there are no people or vehicles approaching in the danger zone (10m). Never let go of the control panel while driving!
- Never leave the control panel unless the tool is stopped! Making adjustments to the tool while it is in use is a source of accidents!
- Transporting objects is prohibited!
- When a foreign object has entered the tool, stop the machine, turn off the engine and remove the ignition key. Remove the object with an appropriate tool, gently and carefully.
- Turn off the engine if there is damage to the power cell or tool before repairing the damage.
- In case of severe vibrations, stop the engine immediately and have it repaired by a specialist!

3.3.6 Stopping the machine



- When stopping the machine for parking, close the fuel tap (if possible)! Prevent the machine from moving using chocks or the handbrake if available. Secure the machine against unauthorized use!
- Switch off the engine and if possible remove the ignition key or spark plug!
- Never leave the machine while the engine is still running!

3.3.7 Tires and screwed elements




- When working on the wheels, make sure the machine is stationary and cannot move!
- Periodically check the tightness of screws and nuts.
- Tire repair can only be done by professionals with suitable tools!
- Too high an inflation pressure can cause an explosion! Check the inflation pressure regularly!



3.3.8 Maintenance, cleaning and repair



- Never carry out maintenance or cleaning work with the engine running! Always remove the spark plug before working on the engine.
- For maintenance and care of the weed brush you should only carry out the tasks described in this manual.
- Maintenance, cleaning and repair can only be carried out when the brush and motor are stopped!
- Protective equipment and work tools are normally subject to wear and tear, they must be checked regularly and replaced if necessary.
- Damaged brush elements must be replaced.
- To change brush elements, use the appropriate tools and wear gloves.
- Use only original spare parts from the manufacturer. They meet the technical requirements and minimise the risk of accidents!

-
- Never use a high-pressure cleaner on bearings, rotating parts, seals, hubs, etc. After each cleaning, grease the lubrication points, otherwise the warranty will be void!
 - Check that moving parts are free and grease if necessary!
 - After cleaning and maintenance operations, replace all guards! To reduce the risk of fire, keep the machine clean!
 - The tightness of screws and nuts must be checked regularly.
 - Regular maintenance, cleaning and repair work will increase the longevity of your equipment!
 -  - Before any repair work, make sure that the hydraulic system is depressurized, because pressurized fluids can penetrate the skin and cause serious injuries! In case of injuries, consult a doctor immediately - risk of infection!
 - Repairs should only be carried out by professionals.
 - Hydraulic hoses should be checked regularly and replaced if damaged or aging. After 6 years of use, all hoses should be replaced (the manufacturing date is marked on the hose).

3.3.9 Engine, fuel and oil

-  - Before filling the tank, turn off the engine and remove the ignition key (if present)!
-  - Filling should never be carried out in a closed room. Wipe up any overflow properly and immediately.
- Oils, fuels and filters must be disposed of separately!
-

3.4 USE PICTOGRAMS

The following pictograms are intended to remind the operator of the actions and precautions to take with this machine.

Meaning of the pictograms:



Read and follow the instructions for use before use.



When the engine is running, never remove or open the guards!



Follow the instructions in the manual

Grease points!



Wait until all moving parts have stopped before working on the machine.



Danger of projections when the engine is running

Keep a safe distance



Wear protective glasses

4 ELIMINATION

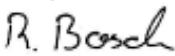
The equipment must be disposed of in accordance with the regulations applicable in the city or country.

Depending on the material, separate hazardous waste from recyclable materials.
Kersten GmbH does not assume any responsibility for this.

5 EC DECLARATION OF CONFORMITY

EG – Konformitätserklärung

CE Déclaration de conformité
EC Declaration Conformity
EG conformiteitsverklaring,0

(D)	(F)	(GB)	(NL)
Wir	Nous	We	Wij
Kersten Arealmaschinen GmbH Empeler Straße 95 D- 46459 Rees			
erklären, dass das Produkt	déclarons que le produit	herewith declare that the product	verklaren dat het produkt
Frontkehrmaschine	Balayeuse de front	Front sweeper machine	Frontveegmachine
KM 12537 M-ABR 37 / KM 12537 H-ABR 37			
mit allen einschlägigen Bestimmungen der EG-Maschinenrichtlinie 2006/42/EG in Übereinstimmung ist.	satisfait à l'ensemble de la directive machines 2006/42/CE.	fulfiles all relevant provisions of Directive 2006/42/EC.	voldoet aan alle toepasselijke bepalingen van EG-Machinerichtlijn 2006/42/EG.
Die Maschine ist auch in Übereinstimmung mit allen einschlägigen Bestimmungen der folgenden EG-Richtlinien:	Cette machine satisfait également à toutes les dispositions pertinentes des directives CE suivantes:	The machinery is also in compliance with all relevant provisions of the following EC directives:	De machine is ook in overeenstemming met alle toepasselijke bepalingen van de volgende EG- richtlijnen:
Weiterhin wurden folgende Normen angewendet:	En outre, les normes et spécifications techniques suivantes ont été utilisées:	The following harmonised standards apply:	Volgende geharmoniseerde normen werden gehanteerd:
EN ISO 12100:2010			
Herr	Monsieur	Mr.	De heer
Dipl. Ing. (FH) Robert Bosch Empeler Straße 95 D- 46459 Rees			
ist bevollmächtigt die technischen Unterlagen zusammenzustellen.	est autorisé à constituer la documentation Technique conformément à l'annexe VII A.	is authorised to compile the technical file according to Annex VII A.	is gemachtigd het technische dossier samen te stellen.
Rees, 16.04.2014  Geschäftsführer			

6 WARRANTY

The equipment is guaranteed by Kersten according to the terms below, against defects in construction and assembly and/or materials when used correctly and for a period of 1 year from the date of purchase of the equipment. This guarantee does not apply to the engine, the latter being subject to the engine manufacturer's guarantee (warranty notice delivered with the machine).

The warranty is limited to the replacement of parts, which have been recognized as defective by Kersten. The warranted parts must be returned, carefully packed, postage prepaid to Kersten for inspection, repair or replacement, accompanied by proof of purchase of the machine.

Disclaimer of Warranty

The warranty exclusion will be effective in the following cases:

When inspection of damaged or defective parts indicates that the machine has been used in conditions contrary to those described in this manual.

When the machine has been serviced or repaired by a person or company not approved by Kersten. When the machine has been repaired without using original parts supplied by Kersten

When the maximum engine speed setting has been changed. Wear parts (e.g. belts, brooms, brushes, etc.)

No other warranty will be applied to this machine except the legal warranty for hidden defects. Kersten cannot be held responsible for damage or costs caused by the machine such as: equipment rental costs

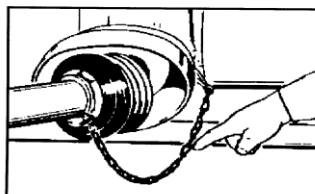
loss of turnover

Kersten assumes no obligations and does not authorize anyone to assume any obligations other than those contained in the Warranty paragraph.



7 ASSEMBLING THE POWER TAKE-OFF

If necessary, cut the cardan transmission. Then put it in place on the tractor side and the implement side, checking that it is correctly locked. Then put the protective chains in place.



7.1 MSTARTING THE SWEEPER AND ADJUSTING THE BIN

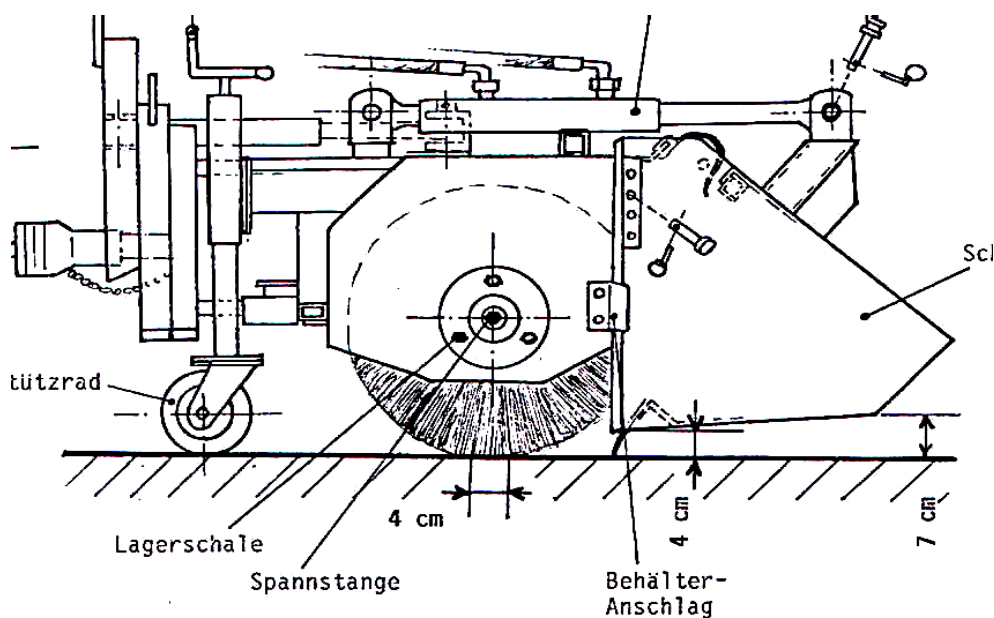


Photo 1 Broom adjustment

After removing the storage wheels (Photo 1 Broom adjustment), adjust the 2 support wheels so that there is a contact surface between the broom and the floor of approximately 4 cm. Make sure to have the same adjustment on both sides to avoid uneven wear of the broom. More support does not provide better results. If the sweeper is used without a collector, orient the broom to the left or right using the adjustable tie rod provided for this purpose, after removing the locking pin. Once the adjustment is made, replace the pin. When the sweeper is used with its collection bin, the broom must be oriented precisely in the direction of movement of the machine

7.2 RADJUSTING THE TRAY

The tray must be adjusted so that it is approximately 4 cm from the ground and that under no circumstances can it hit the ground, particularly on uneven surfaces. Adjust the dump cylinder anchor points accordingly.



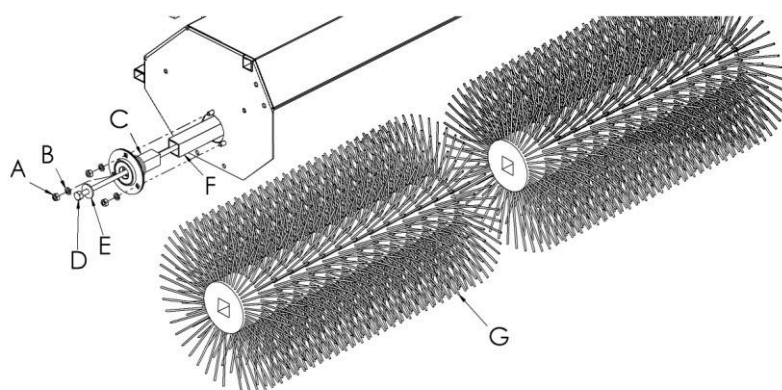
8 TECHNICAL CHARACTERISTICS

Model	KM 12537 M-ABR	KM 12537 H-ABR
Working width	125 cm	125 cm
Broom	Ø 37 cm	Ø 37 cm
Coupling - ABR 37 FKDR - ABRL 37 HUS	- Mounting on FKDR HYDRO lift Mounting - on Husqvarna P525 lawnmowers	
Bac	PE, manual emptying	PE, manual emptying
Training	by power take-off	Hydraulic 12L/min
Angle drive housing	SAE85W90 oil capacity 0.31 liters	
Side brush	Hydraulic or belt drive	



9 REPLACING THE BRUSH

Unscrew the tie rod reference D
Unscrew the 3 fixing nuts A
Remove the bearing assembly and drive square C Remove
the square tube F and remove the 2 half brushes G



Dust broom

Complete polyethylene filling

KM 12537 125 516 037

Reinforced mixed broom

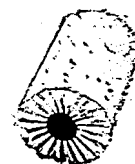
Complete filling with 50% polyethylene and 50% steel

KM 12537 125 516 537

Standard broom

With 5 rows of polyethylene fibers

KM 12537 125 510 037



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