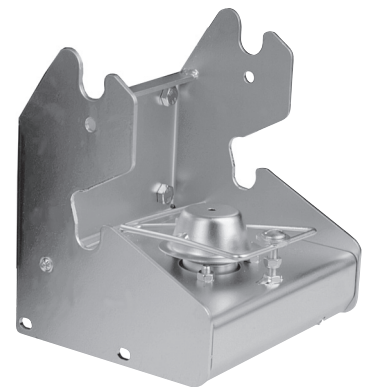
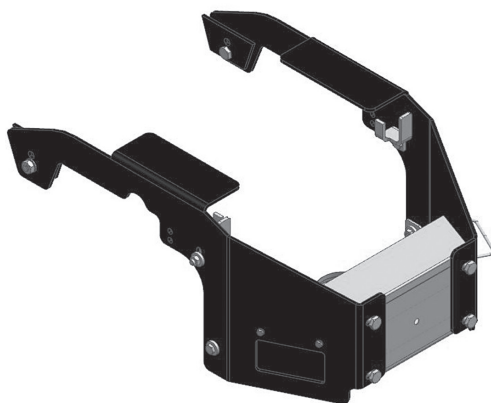


tielbürger®

Mounting frame AN-156-001GI

GB

Operating and installation instructions



171506097/0EN

EN – Translation

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1 Operating and installation instructions

1.1 General

The operating and installation instructions are intended to help users familiarise themselves with the machine and use it in line with its intended applications.

The operating and installation instructions contain important information on how to operate the machine safely, properly and economically. Observing these operating and installation instructions helps to avert risks, to reduce repair costs and downtime and to increase the reliability and service life of the machine. The operating and installation instructions must always be available at the location where the machine is used. The operating and installation instructions must be read and applied by any person in charge of carrying out work with or on the machine, for example:

-Operation, including setting up, fault rectification in the course of work, removal of production waste, maintenance and disposal of operating and auxiliary materials

-Maintenance (servicing, inspection, repair) and/or

-Transport.

The generally recognised rules of technology for safe and proper working must be observed in addition to the operating and installation instructions and mandatory regulations for accident prevention which apply to the country and place of use.

1.2 Warnings and symbols



Read the operating and installation instructions



DANGER!
Indicates an immediate threat of danger. If this instruction is ignored, there is a risk of death or extremely serious injury.



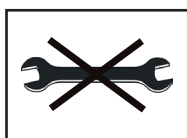
WARNING:
Indicates a potentially hazardous situation. If this instruction is ignored, there may be a risk of death or extremely serious injury.



CAUTION:
Indicates a potentially hazardous situation. If this instruction is ignored, there may be a risk of minor injury.



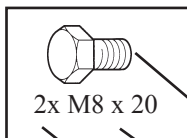
IMPORTANT:
Indicates operating tips and other useful information.



Do not use a tool



Work on a workbench



2x M8 x 20

Symbol
Type
Quantity

Symbol	Example types:	Explanation
Bolt	M8 x 16	M = Metric S = Diameter in mm 16 = Length in mm
Washer	8.1 - 58 - 5	8.1 = Inner diameter 58 = Outer diameter 5 = Material thickness in mm
Nut	M8 (L)	M = Metric 8 = Inner diameter in mm (L) = Lock nut
Combination spanner Hexagon head screwdriver Screwdriver	8	8 = Size in mm
Crosshead screwdriver	PZ 2 PH 2	PZ 2 = Pozidriv size 2 PH 2 = Phillips size 2

2 Basic safety instructions

2.1 Intended use

The product has been constructed using state-of-the-art technology and in line with the recognised technical safety regulations. However, use of this product may still result in the risk of injury or death to the user or third parties, or of damage to the product and other material assets.

Only use the product in technically perfect working order, for its intended use and with safety and hazards in mind, in compliance with the operating and installation instructions. In particular, you must immediately rectify faults that could impair safety or have such faults rectified immediately by a third party.

The product is exclusively intended to be installed on the machines approved by the manufacturer and is intended for the accessories approved by the manufacturer. Any other or additional form of use, for example use in conjunction with self-constructed accessories, shall be regarded as non-compliant with the intended use. The manufacturer/supplier shall not be held liable for any damage or loss suffered as a result. The risk is borne solely by the user.

When operating implements, the mower must be switched off.

Do not mow on slopes with a gradient of more than 10° (17%).

Please note that no slopes are entirely safe. Driving on slopes requires you to pay particular attention in order to prevent the machine from overturning.

Intended use also includes complying with the operating and installation instructions and adhering to the inspection and maintenance conditions.

2.2 Organisational measures

The operating and installation instructions must always be kept ready at the location where the machine is used. In addition to the operating and installation instructions, observe and follow the generally valid legal regulations and any other binding regulations for accident prevention and environmental protection.

Such obligations may also include handling hazardous substances or making available/wearing personal protective equipment and complying with road traffic regulations, for example.

Supplement the operating and installation instructions by instructions as well as site management and reporting obligations concerning special operational requirements, for example with regard to work organisation, workflows, personnel used, etc.

Any personnel instructed to perform work on the machine must have read the operating instructions before starting work, specifically the section entitled "Safety instructions". Reading the instructions after work has begun is too late. This applies in particular to personnel who only work on the machine occasionally, for example for set-up and maintenance.

At least occasionally, check that the personnel are working with safety and hazards in mind while following the operating instructions.

Personnel must not have long hair which is not tied back or wear loose clothing or jewellery including rings. There is a risk of injury from being caught or drawn into the machine, for example.

Wear personal protective equipment if necessary or required by regulations.

Observe all safety and hazard notices on the machine. Ensure that all safety and hazard notices at/on the machine can be read in full at all times.

In the event of any modification to the machine or any change in the machine's performance that may affect safety, shut down the machine immediately and report the fault to the responsible specialist dealer.

Do not modify, convert or attach equipment to the machine without approval from the manufacturer if this could impair safety. This also applies to fitting and adjusting safety equipment and valves, as well as for welding on supporting parts.

Use only genuine spare parts from the manufacturer. These comply with the technical requirements and safeguard your warranty and guarantee rights. Adhere to the prescribed time periods or those indicated in the operating and installation instructions for recurring tests/inspections.

Workshop equipment which is appropriate for the work is mandatory for carrying out maintenance measures. Make personnel aware of the location of fire extinguishers and how to use them.

Comply with the fire alarm and firefighting procedures.

2.3 Personnel selection and qualifications; basic obligations

Work on/with the product may only be carried out by reliable personnel. Observe the legal minimum age.

Only use trained or instructed personnel and clearly define the responsibilities of the personnel for operation, set-up, maintenance and repair.

Ensure that only authorised personnel work on the product.

Only allow personnel who are yet to complete training, instruction and induction or who are still completing a general apprenticeship to carry out work on the product under the constant supervision of an experienced person.

Work on the product's electrical equipment may only be carried out by a qualified electrician or by trained personnel under the guidance and supervision of a qualified electrician in accordance with electrical engineering regulations.

Work on chassis, braking and steering systems must only be carried out by qualified personnel trained for such work.

Only personnel who possess specific knowledge of and experience in hydraulics are allowed to carry out work on hydraulic equipment.

Clean the implement regularly, particularly in the exhaust and engine area. Otherwise, there is an increased risk of fire.

2.4 Position of safety stickers and labels



Do not open the protective equipment



Caution:
Hot surface

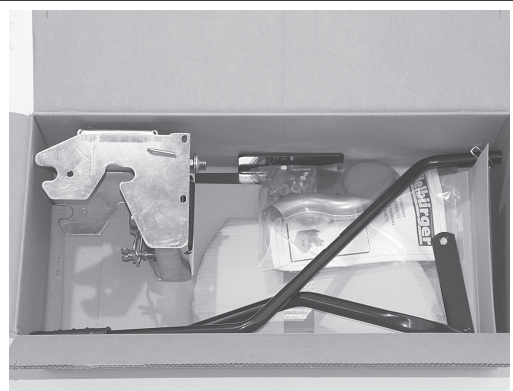
3 Scope and condition of delivery

Product packaging



Mounting frame AN-156-001GI

Inspection of the original packaging



Scope of delivery

Check the attachment sets supplied to ensure that they match the specified scope of delivery.
The transport packaging should be recycled.

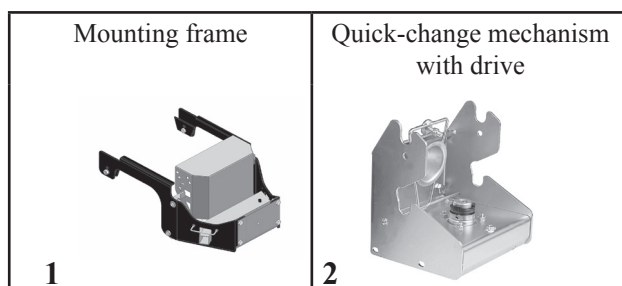
4 Components of the Tielbürger quick-change system

4.1 Attachment sets for lawn tractors

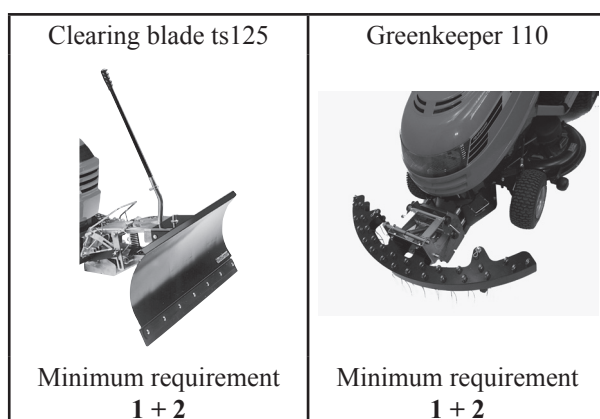
For implements:

with a drive: Mounting frame AN-156-001GI
Quick-change mechanism with drive AN-001-003TS

4.2 Components of the Tielbürger quick-change system



4.3 Accessories



Ask your authorised Tielbürger specialist dealer for the latest implements.
You can find further information on our website: www.tielbuenger.de

5 Installation

5.1 Preparatory measures prior to installation



DANGER!
There is an increased risk of injury near running drives. Follow the safety instructions.



WARNING:
Switch off the engine and allow it to cool down. The machine must be secured to prevent it from being started inadvertently. Remove the ignition key and activate the parking brake.

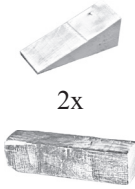
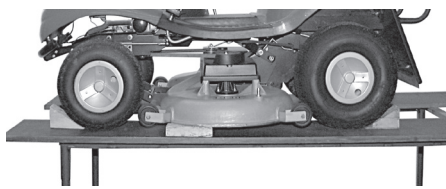



IMPORTANT:
The construction sets supplied must be checked to ensure that they are complete using the spare parts list in these instructions.
The quick-change system should only be installed by a specialist dealer of engine units.
Before you begin, acquire an overview of the installation sequence and the required parts and tools.
The machine must be clean and in technically correct working order.
Follow the lawn tractor manufacturer's safety instructions and operating instructions.

Installation should be performed on a height-adjustable work platform in accordance with the following instructions.



IMPORTANT:
Comply with the safety regulations for the work platform.

 <p>2x</p> <p>1x</p>		<p>Lower the mower on to timber. Secure the lawn tractor against rolling away by using wheel chocks.</p> <p> IMPORTANT: Follow the operating instructions provided by the manufacturer for this.</p>
---	---	--

5.2 Installation

Dear valued customer,

Models are continuously being updated by the lawn tractor and implement manufacturers in line with technological progress. As a result, descriptions or illustrations in these instructions may differ from the actual conditions on the lawn tractor.

Select one of the columns below on the basis of your mounting frame.

- Column **A** = Attachment parts **without** quick-change mechanism,
for securely attached accessories
- Column **B** = Attachment parts **with** quick-change mechanism,
for non-driven implements (e.g. clearing blade)
- Column **C** = Attachment parts **with** quick-change mechanism **with** drive,
for driven implements (e.g. sweepers) and
for non-driven implements

- 1) During installation, only those steps which are marked with a point • in the selected columns have to be carried out. Highlight the column that applies using a highlighter.
- 2) **The sequence given in the installation instructions must be complied with.**



DANGER!


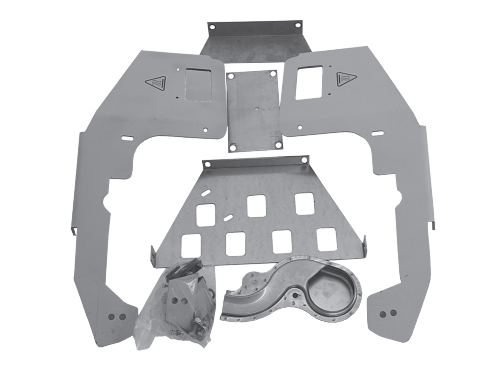
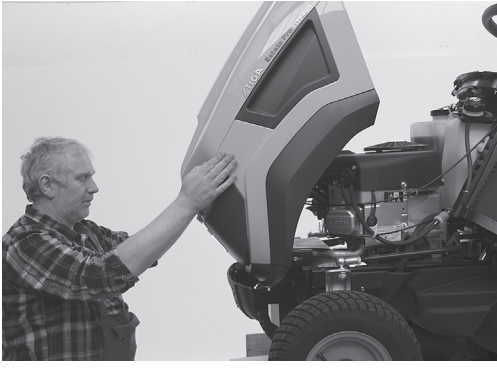


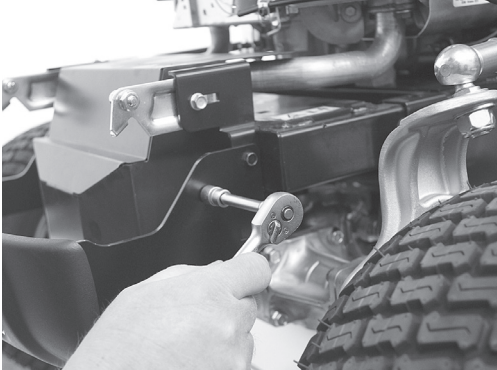

It is necessary to remove protective equipment in order to install attachment parts. You must therefore ensure that this equipment is reattached after installation is complete. This is why none of the following work steps can be ignored.

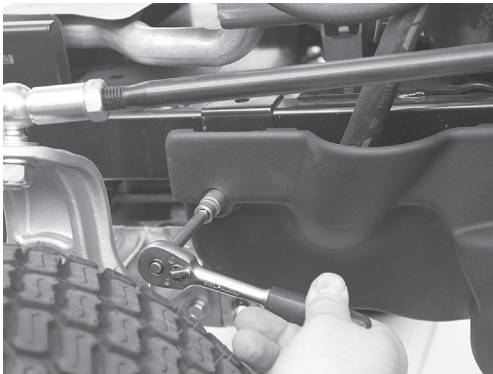



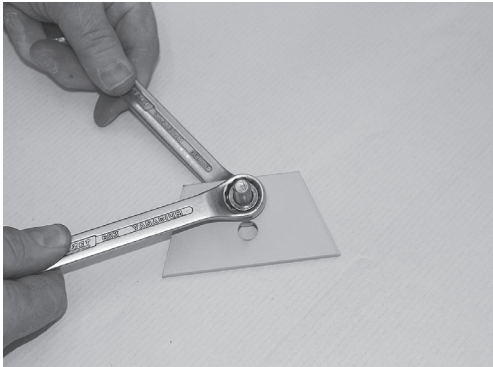

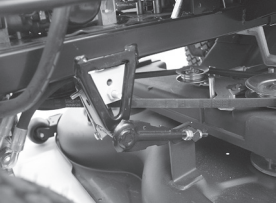


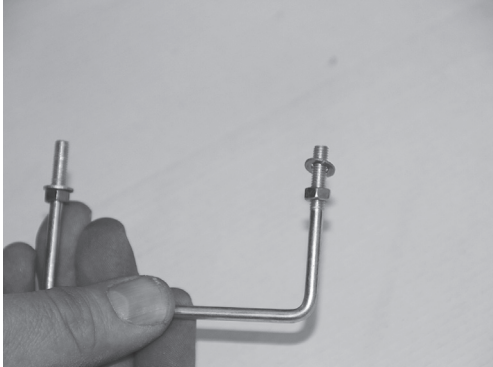

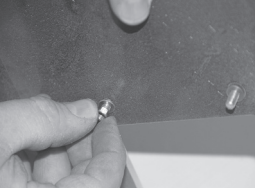
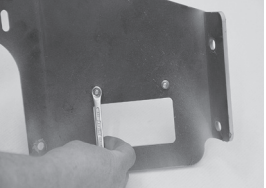




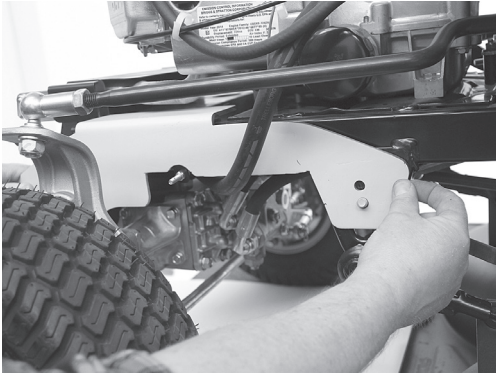




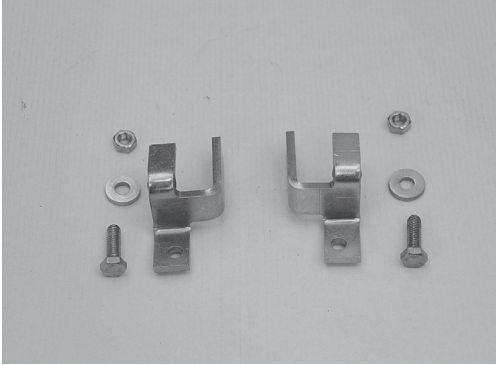





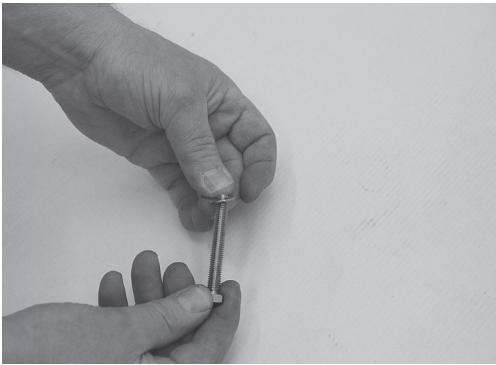
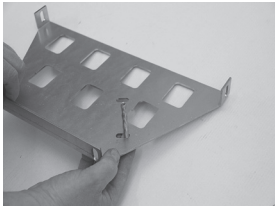
DANGER!


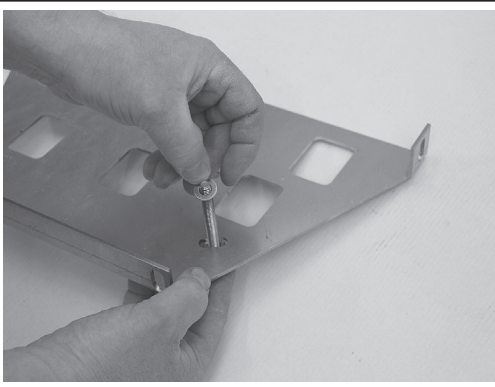

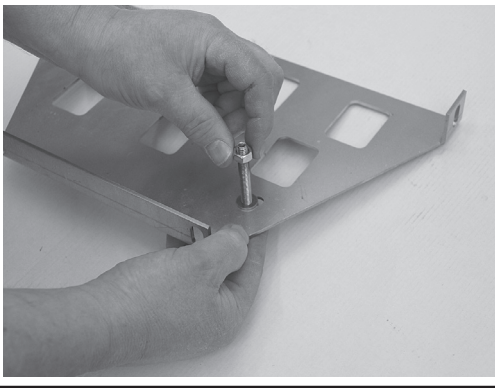

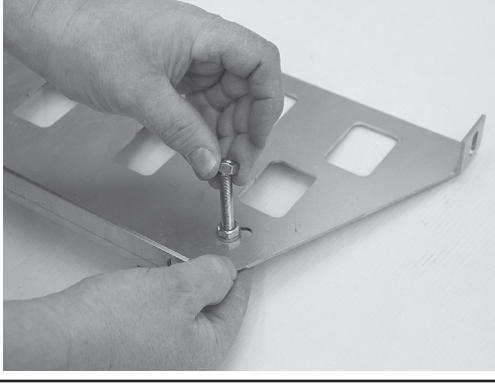

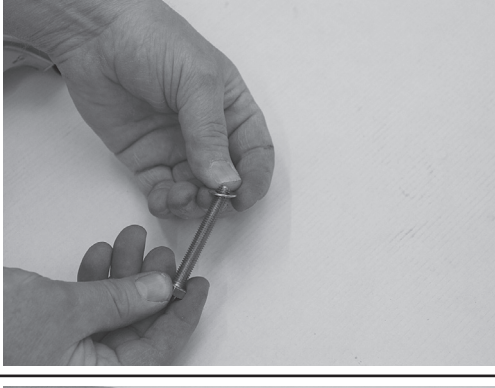


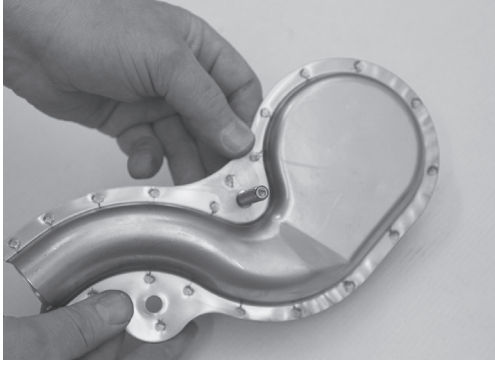
The installation procedure described below must only be performed by the specialist dealer.






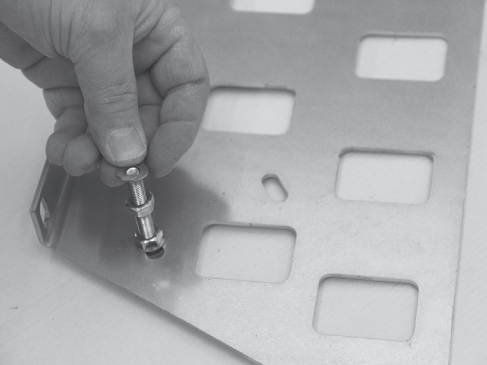





5.3 Installing the mounting frame



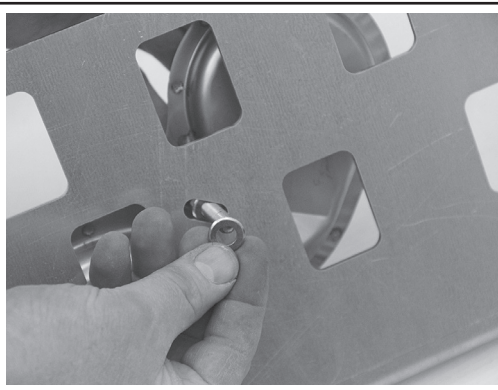
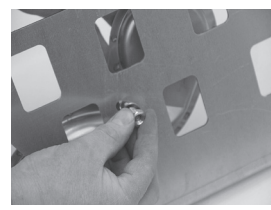
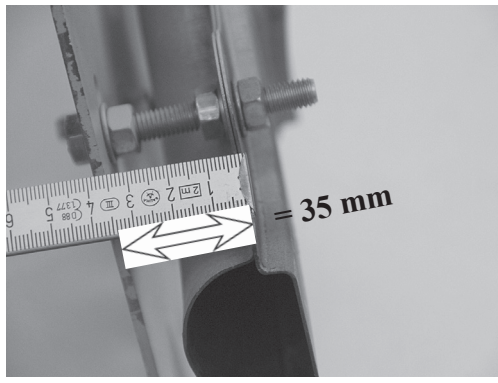
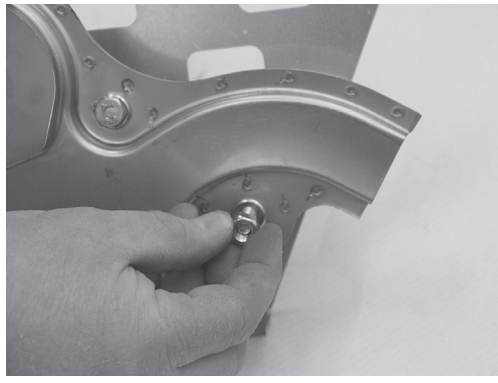

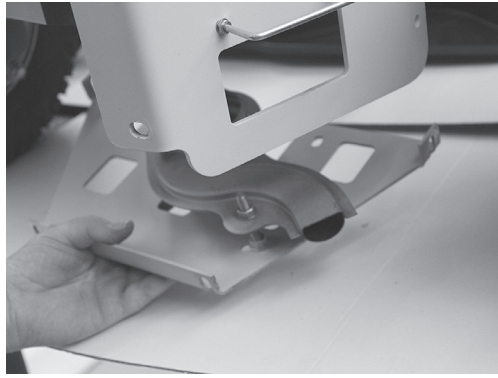
		A	B	C
	<p>Read the user manual provided by the lawn tractor manufacturer.</p>	●	●	●
	<p>Complete mounting frame.</p>	●	●	●
	<p>Open the bonnet.</p>  <p>Release the plug connection to the lights.</p>	●	●	●
	<p>Remove the bonnet.</p>	●	●	●
	<p>Remove the guard plate.</p>  <p>Removed parts which can or cannot be reused.</p>	●	●	●

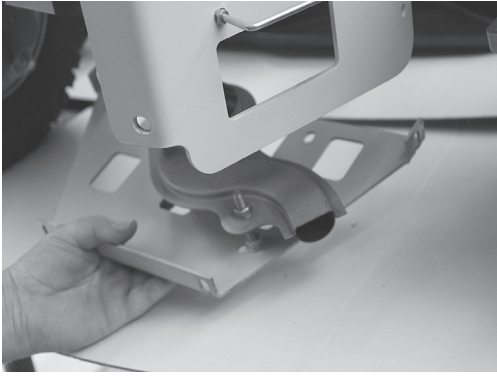










		A	B	C		
		<p>Remove the guard plate.</p>  <p>Removed parts which can be reused.</p>		●	●	●
 1x M10 x 30  1x M10		<p>Pre-assemble the adapter with a bolt and nut.</p>		●	●	●
		<p>Position the adapter.</p> 		●	●	●
 1x M10 x 30  4x 5.3-10-1		<p>Pre-assemble the bracket with a washer and nut.</p>		●	●	●
		<p>Fit the bracket to the support. Turn the nut with washer on the bolt.</p>  		●	●	●


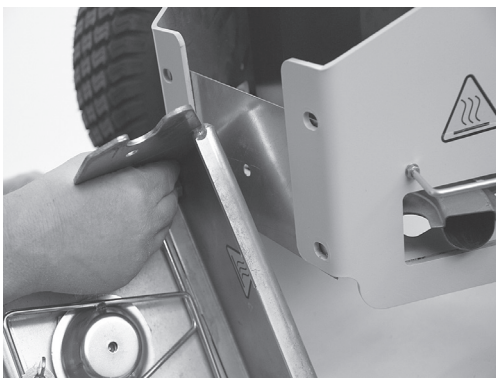




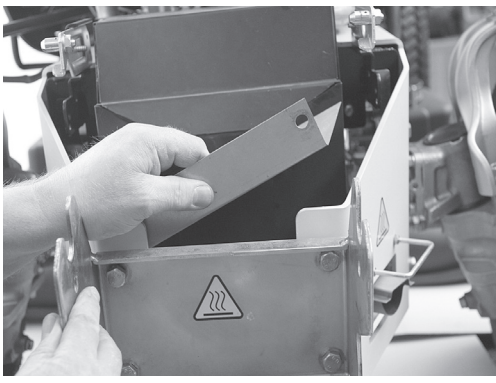






		A	B	C		
 1x 10.5-20-2  1x M10		Position the support.  Turn the washer with nut on the bolt. Follow the same procedure for the opposite side.		●	●	●
 1x M8 x 25  1x 8.4-21-4		Push the bolt with washer through the hole.		●	●	●
		Complete right counter-holder/left counter-holder		●	●	●
 1x M8		Position the counter-holder.  Turn the nut on the bolt.		●	●	●
 1x M8 x 60  1x 8.4-16-1.6		Push the bolt with washer through the elongated hole in the guard plate. 		●	●	●

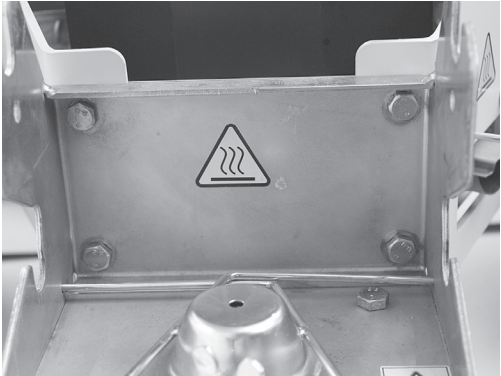


		A	B	C	
 1x 8.4-16-1.6		Place the washer on the bolt.	●	●	●
 1x M8		Turn the nut on to the bolt.	●	●	●
 1x M8		Turn the second nut on to the bolt.	●	●	●
 1x 8.4-16-1.6		Place the washer on the bolt.	●	●	●
 1x 8.4-16-1.6  1x M8 x 60		Push the bolt with washer through the hole.	●	●	●

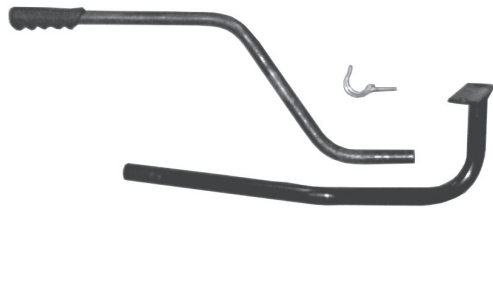

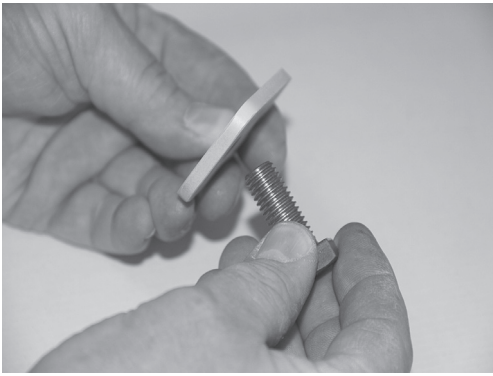






			A	B	C
 1x M8		Turn the nut on to the bolt and tighten.	●	●	●
 1x M8		Turn the second nut on to the bolt.	●	●	●
 1x 8.4-16-1.6		Place the washer on the bolt.	●	●	●
 1x 8.4-16-1.6		Push the washer on to the exhaust system bolt and push the bolt through the elongated hole on the guard plate at the same time.	●	●	●
 1x 8.4-16-1.6  1x M8		Place the washer on the bolt.	●	●	●



		A	B	C		
 1x 8.4-16-1.6  1x M8		Place the washer on the bolt.		●	●	●
		Turn the nut on the bolt.				
		Set the height of the exhaust system to 35 mm.		●	●	●
		Tighten the nuts.		●	●	●
		Install the exhaust system with the guard plate on the support.		●	●	●
		Position the exhaust system with the guard plate.		●	●	●

			A	B	C
		 <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>IMPORTANT: Slide the opening in the exhaust system on to the lawn tractor's deflector.</p> </div>	●	●	●
 2x M8 x 25  2x 8.4-21-4		Push the bolt with washer through the elongated hole in the support and guard plate.	●	●	●
 2x M8  2x 8.4-21-4		Loosely fit the guard plate with nut and washer to the support. In this case, on the left in relation to the direction of travel. Install the opposite side in the same way.	●	●	●
		Position the guard plate.	●	●	●
		 <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>WARNING: When installing the quick-change mechanism, ensure that the surfaces of the exhaust system and exhaust pipe are positioned exactly on top of one another. There is otherwise a risk of heat accumulation.</p> </div>	●	●	●

		A	B	C		
						
<p>Position the quick-change mechanism.</p>			<p>Install the quick-change mechanism with a washer, bolt and nut.</p>			
 2x M10 x 25  2x M10  2x 10.5-20-2						
						
<p>Position the finger guard.</p>						
 2x M10 x 25  2x M10  2x 10.5-20-2						
						
<p>Tighten all bolts.</p>						

			A	B	C
		<p>Correctly installed quick-change mechanism.</p>	●	●	●
			●	●	●
	 <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>DANGER! Ensure that all protective equipment is securely fitted.</p> </div>		●	●	●
			●	●	●
			●	●	●

		A	B	C
	<p>Assemble the operating lever.</p> 	●	●	●
 1x M12 x 30	  <p>Push the bolt through the hole in the tab.</p>	●	●	●
 1x 13-24-2  1x M12	 <p>Turn the washer and nut on the bolt.</p>	●	●	●
		●	●	●
	 <p>Put the lifting linkage in place.</p>	●	●	●

		Secure the linkage with an R-pin.	A	B	C
			●	●	●
		Tighten all bolts.	●	●	●
			●	●	●
			●	●	●

6 Start-up

6.1 Basic safety instructions for normal operation

Never operate the machine in a manner that could compromise safety.

Before beginning work, familiarise yourself with the work environment at the location where the machine is used. The work environment includes, for example, obstacles in the work and traffic area, the load-bearing capacity of the floor and the required means of cordoning the location where the machine is used off from the public traffic area.

Take appropriate measures to ensure that the machine is only operated in a safe and fully functional condition. Only operate the machine when all protective equipment and safety-critical equipment, for example detachable protective equipment, sound-insulating equipment and extraction equipment, is present and in proper working order.

Always check for externally visible damage and defects before using the machine. Report any changes that may have occurred (including changes in performance) to the specialist dealer immediately. Shut down the machine immediately and secure it if necessary.

In the event of a malfunction, shut down and secure the machine immediately. Have faults rectified immediately.

Only start the machine from the driver's seat.

Switch the machine on and off in accordance with the installation instructions, observing the control displays. Before switching on/starting up the machine, ensure that no one can be endangered by the machine starting up.

Before travelling with the machine or beginning work, check that the brakes, steering, signal and lighting systems are fully functional.

Before driving the machine, always check that accessories

have been fitted such that they are accident-proof.

When driving on public roads and paths and in public places, comply with the applicable road traffic regulations and bring the machine into a condition which is permitted by road traffic regulations in advance.

In poor visibility or in the dark, always ensure sufficient lighting.

Always maintain an adequate distance from pit edges and slopes.

Prohibit any manner of working that may impair the stability of the machine.

The machine must not be used on slopes with a gradient of more than 10° (17%).

Do not drive across slopes; always transport work equipment and loaded goods close to the ground, particularly when descending hills.

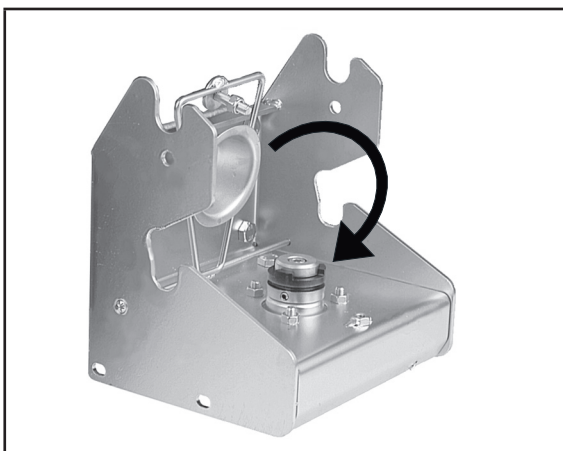
Always adapt your driving speed to the conditions on sloping terrain. Never change to a lower gear on a slope; you should do this before you reach the slope.

Upon leaving the machine, always secure it against accidentally rolling away and unauthorised use.

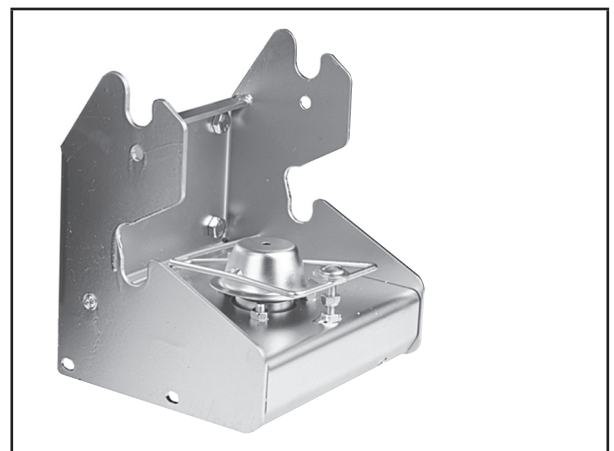


WARNING:

Before using the lawn tractor without an implement, cover the dog clutch on the quick-release coupling with the guard and secure using the bolt.



1) Close the protective flap.



2) Secure the protective flap using the bolt.

7 Maintenance and care

7.1 Basic safety instructions



DANGER!

Clean the implement regularly, particularly in the exhaust and engine area. Otherwise, there is an increased risk of fire.

Comply with the adjustment, maintenance and inspection tasks and intervals specified in the user manual, including the information on replacing parts/equipment. These tasks may only be carried out by qualified personnel. See the maintenance schedule.

Inform operating personnel in advance before carrying out special work and maintenance work. Name the supervisors.

Switch the machine on and off in accordance with the user manual and comply with the instructions on maintenance work for all work that may affect operation, production adjustment, conversion or adjustment of the machine and its safety-critical equipment, as well as work involving inspection, maintenance and repair. Cordon off a large area for maintenance work if required.

The machine must be secured against being switched back on inadvertently if it is completely switched off for maintenance and repair work:

-Remove the key

-Affix a warning sign to the starter.

Only carry out maintenance and repair work when the machine is parked on a level surface with sufficient load-bearing capacity and when the machine is secured against rolling away and overturning.

During replacement, individual parts and larger assemblies must be carefully attached and secured to lifting gear such that they do not pose any risks. Only use suitable lifting gear in technically perfect condition and load-handling equipment with sufficient load-bearing capacity. Do not stand or work under suspended loads. Do not use machine parts as climbing aids.

Keep all handles and steps free from dirt, snow and ice. Clean oil, fuel or care products from the machine, and the connections and screw connections in this case in particular, before starting maintenance/repair work. Do not use aggressive cleaning agents. Use lintfree cleaning cloths.

Before the machine is cleaned with water, a high-pressure cleaner or other cleaning agents, all openings which must not allow water/vapour/cleaning agents to penetrate for reasons of safety or operational functioning must be covered over or sealed. Electric motors and other live components are particularly at risk.

After cleaning, the covers and seals must be completely removed.

After cleaning, inspect all fuel and oil lines for leaks, loose connections, areas of abrasion and damage. Immediately rectify any defects that have been identified.

Always retighten screw connections that have come loose during maintenance or repair work.

If safety devices need to be removed during set-up or maintenance and repair work, they must be reinstalled and tested immediately after the maintenance and repair work has been completed.

Ensure that operating and auxiliary materials and replacement parts are disposed of safely and in an environmentally friendly manner.

Electrical equipment on a machine must be inspected/tested on a regular basis. Defects, such as loose connections and burnt cables, must be rectified immediately. When working on high-voltage assemblies, connect the supply cable to earth after the power has been disconnected and short-circuit the components, e.g. capacitors, using an earthing rod.

Never allow combustion engines to run in closed or confined spaces. The exhaust gases contain poisonous carbon monoxide gas.

Comply with the regulations which apply to the site of use in question.

Only carry out welding, open-flame and grinding work on the machine if this has been expressly approved. For example, there may be a risk of fire or explosion. Before welding, open-flame and grinding work is carried out, remove dust and combustible materials from the machine and its surrounding area and ensure that there is sufficient ventilation (risk of explosion). Check all lines, hoses and screw connections regularly for leaks and signs of external damage. Rectify any damage immediately. Oil escaping under pressure may result in injuries and fires.

Noise insulation equipment on the machine must be in the protective position during operation.

Wear the prescribed personal hearing protection.

Observe the safety instructions which apply to the product when handling oils, greases and other chemical substances.

Take care when handling hot operating and auxiliary materials (risk of burning or scalding).



IMPORTANT:

Check to ensure that

- No fuel or oil is leaking, and rectify if necessary
- Bolts and nuts are securely fastened, and tighten if necessary
- All moving parts run smoothly, and lubricate if necessary

8 Transport



DANGER!

If the machine is to be transported on a lorry or trailer, loading ramps with a suitable load-bearing capacity, width and length must be used. The machine must only be loaded with the engine switched off, without a driver, by being pushed on to the means of transport by an appropriate number of people. During transport, close the petrol cock (if present), lower the cutting disc, apply the parking brake and appropriately secure the machine on the means of transport with ropes or chains.

9 Potential faults and how to rectify them



IMPORTANT:

If a fault which is not listed in this table occurs, contact the specialist dealer. Once you have tried all of the corrective measures described here with no success, contact the specialist dealer.

Fault	Cause	Corrective measure
V-belt running not OK	V-belt pulley installed incorrectly	Check the centring of the V-belt pulley; the contact surfaces must be clean and free of burr
Grinding sounds	V-belt does not run over the V-belt tensioner	Position the V-belt and V-belt tensioner according to the installation instructions
Premature V-belt wear	The V-belt edges and the V-belt idler pulley are touching	Reposition the V-belt tensioner according to the instructions



IMPORTANT:

Only use genuine spare parts from the manufacturer, which you can obtain from your specialist dealer. This ensures that the implement will work reliably.

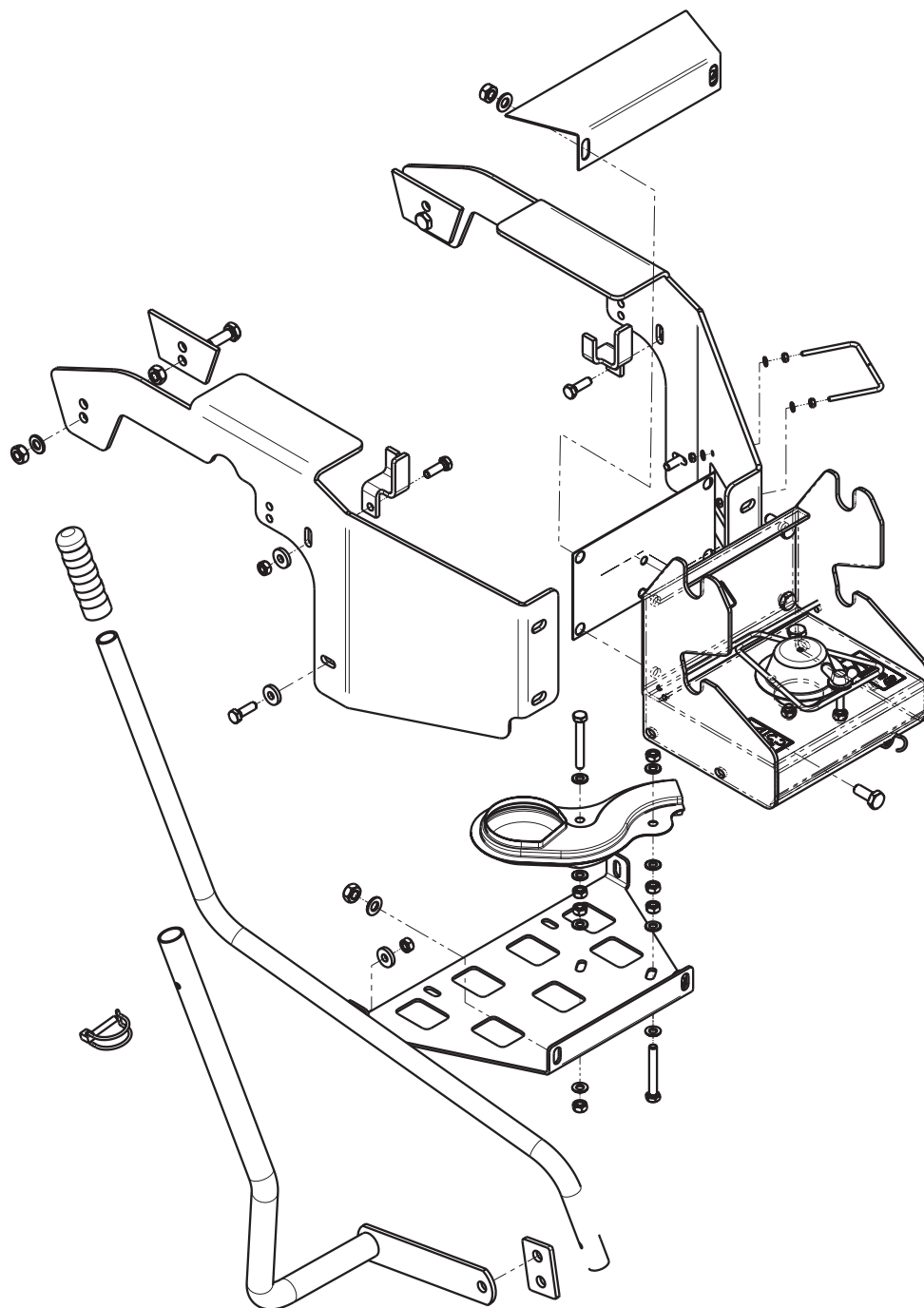
10 Exploded drawings

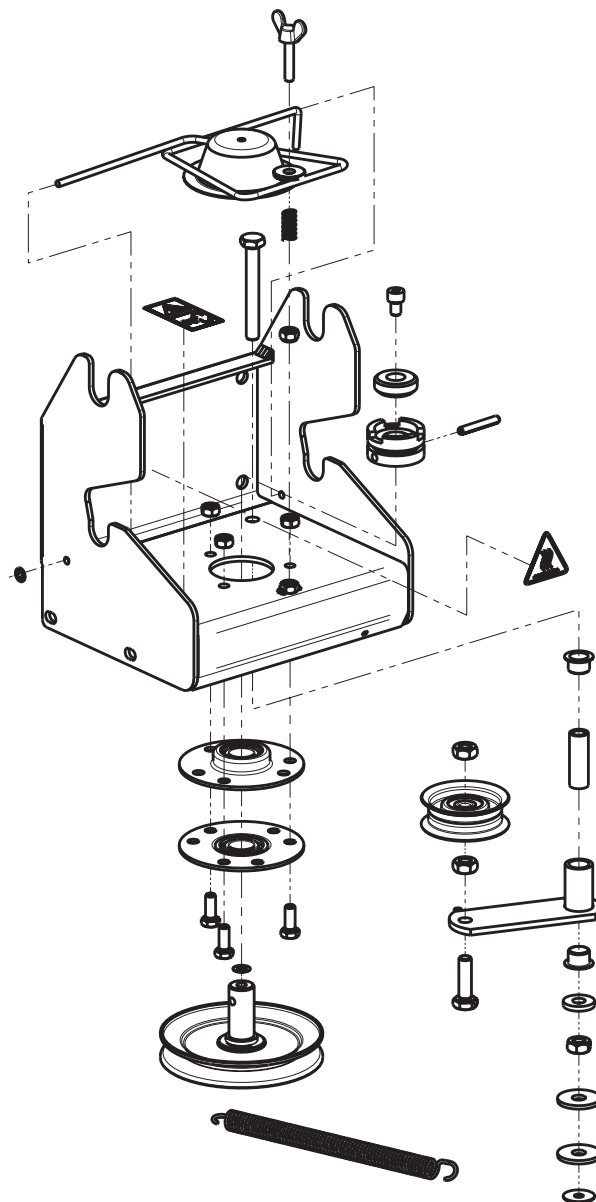


IMPORTANT:

The "Remarks" column helps you to identify parts.

Only use genuine spare parts from the manufacturer. This ensures that the implement will work reliably.
Item numbers in brackets are wear parts.





EC Declaration of Conformity (in accordance with EC Directive 2006/42/EC)

Manufacturer: **Julius Tielbürger GmbH & Co. KG**
Maschinenfabrik
Postdamm 12
D-32351 Stemwede-Oppenwehe, Germany

Authorised representative for technical documentation:
Mr Jörg Tielbürger
Julius Tielbürger GmbH & Co. KG
Maschinenfabrik
Postdamm 12
D-32351 Stemwede-Oppenwehe, Germany

We hereby declare that the **Tielbürger system:**

Attachment parts
in combination with:

Sweeper
Clearing blade
Snow chains
Greenkeeper

Serial no.: AN-156-001GI

Serial no.: AD-200-001GI

Serial no.: AE-015-001GI

Serial no.: KC-002-008

Serial no.: AI-200-001GI

complies with all relevant provisions of EC Machinery Directive 2006/42/EC as replaceable equipment for installation on the following ride-on mowers:

TWIN CUT HIGH-END mod. TH(4)x 102 SERIES

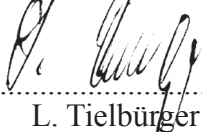
TWIN CUT HIGH-END mod. TH(4)x 122 SERIES

TWIN CUT HIGH-END mod. TH(4)x 118 SERIES

for cleaning surfaces.

Stemwede, 12.10.16

Julius Tielbürger
GmbH & Co.KG



.....
L. Tielbürger
(Managing Director)

KR-362-215GI