VERMEIREN





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1 Maintenance

Lifetime of the bed is strongly influenced by its use, storage, regular maintenance, servicing and cleaning. Do not use the bed when something is damaged, therefore read the maintenance instructions carefully. Do not perform repairs on your own.

No persons may be on the bed when performing any maintenance activities.

The manufacturer is not liable for damage caused by lacking or improper service checks.

1.1 Regular Maintenance

The maintenance activities to ensure a good condition for your Vermeiren bed are described below:

- Before every use
 - Check the castors for visible damage and/or soiling. Remove any dirt as it could impair the motion of the castors. When a castor is damaged, please go see an authorized workshop for repair.
 - Check the brakes and replace if necessary.
 - See that all the screws, locking pins are tightened properly.
 - Check the bed (cleanliness, cracks, damage on structural parts ...) and make it clean. If necessary change the coating.
 - Check the functioning of the mechanically adjustable elements for wear and tear (side railings, lifting pole + triangle, foot-end, head-end).
 - Check the condition of the wooden parts.

Only for electrical bed:

- Check the cables for visible signs of damage and whether all plugs are properly inserted as indicated in the instruction manual. In the case of damage immediately unplug the power cable out the wall socket. Plugs must only be pulled out by grasping the plug itself; never pull on the cable. Contact your authorized workshop for repairs.
- Check that the handset function properly. If a function is faulty, kindly disconnect the power cable and contact your specialist dealer immediately.

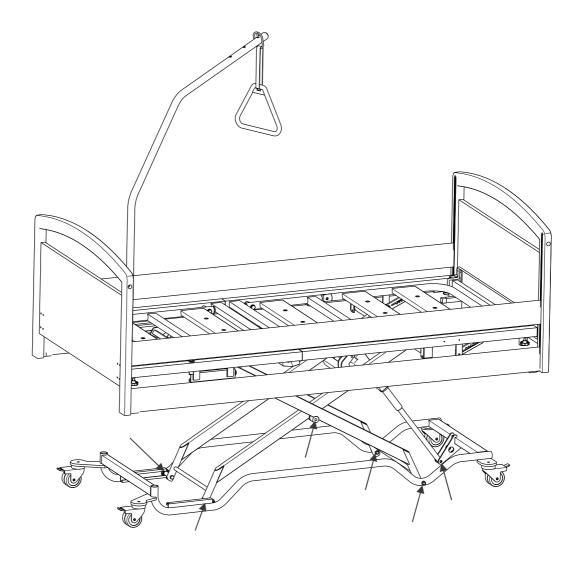
Only for mechanical bed:

- Check functioning of the gas pressure spring (synchronized, deformation, oiled).
- Check functioning for the mechanical tooth adjustment mechanism (deformation, wear).
- Every 8 weeks: inspection and possibly lubricating or adjusting from (depending on how often the bed is used)
 - Operation and condition of the wooden side railings (headrest and foot-end)
 - Operation and condition of the metal side railings (if present)
 - Placement of the slats in the slatted frame (if available)
 - The condition of the wooden parts
 - Lifting pole (fit / deformation)
 - All screw, bolt and nut fasteners
 - Lubricating from moving parts



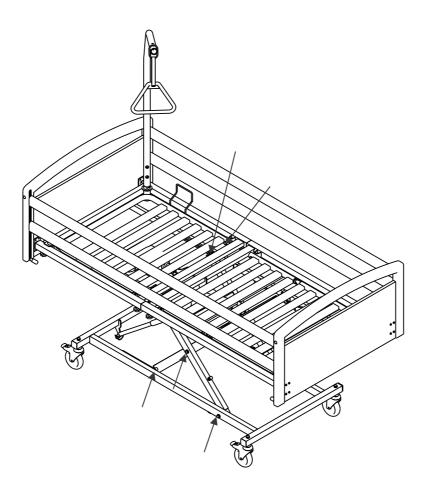
Figures below indicate the greasing points for the different Vermeiren beds:

Alois, Alzeis, Lo-Lo (wooden side rails)



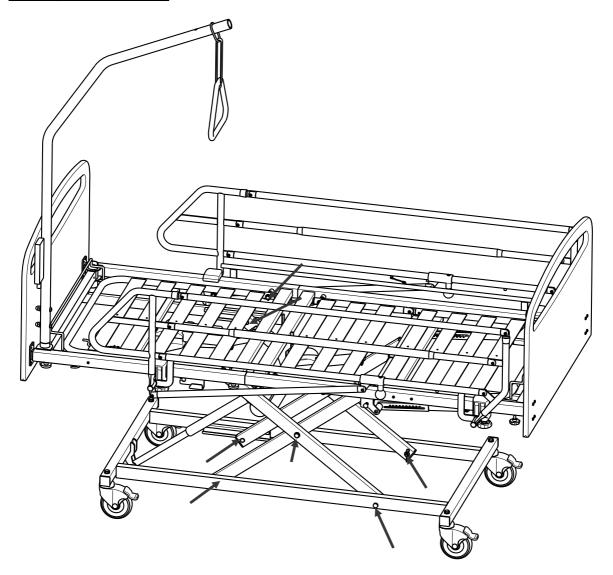


<u>Interval</u>





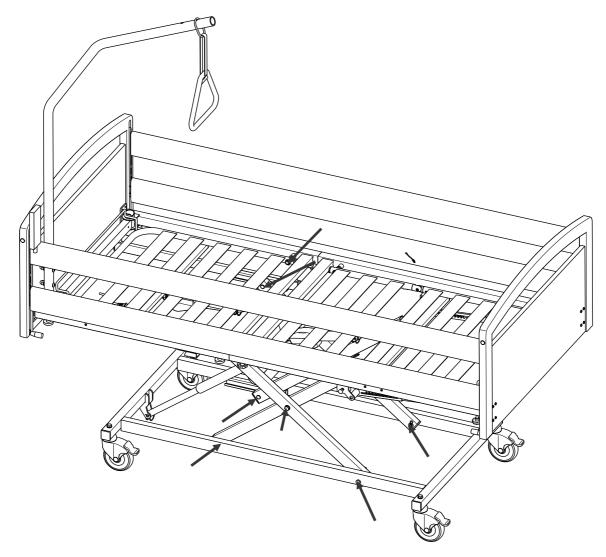
Pratic (metal side rails)





Pratic (wooden side rails)

Same for the Pratic HC bed.



For your convenience, on the back of this manual is a maintenance plan.

Repairing and assembling of spare parts for your bed may only be performed by the specialist dealer.

Only authorized Vermeiren spare parts may be installed.

1.2 Shipping and storage

The shipping and storage of the bed shall be according following instructions:

- Store in a dry place (between +5 °C and +40 °C).
- The relative humidity of the air should be between 30% and 70%.
- Provide sufficient covering or packaging to protect the bed from rust and foreign bodies. (e.g. salt water, sea air, sand, dust).
- Pull the power cable out the wall socket.
- Carefully roll up the power cable with no kinks and place it in the receptacle provided.
- Store all removed parts together in one place (or mark them if necessary) to avoid mixing up with other products when re-assembling (e.g. side rails).
- Components must be stored without being subjected to strains (Do not put too heavy parts on the bed, not clamping between something, ...). Grasp the bed by solid frame parts only.



- Check internal cables for squashing and the prevention of kinks.
- When dismantling properly tighten all screws and bolts.
- Make sure all components required for assembling the nursing bed are in place.
- After being re-assembled and passed on to somebody else, all inspections must be performed as described in the "Inspection" chapter.

1.3 Care

The cleaning of your bed is possible with household products. Check before cleaning the bed the power cable is disconnected from the power supply.

Your bed requires regular care if you want it to remain visually attractive so it should be regularly cleaned.

1.3.1 Metal frames, wooden parts

See instructions below for the cleaning of the metal frames and the wooden parts:

- Clean the metal frames and the wooden parts with a cloth moistened in warm water.
 Take care that you do not soak the metal frames and the wooden parts.
- Use a mild commercial detergent for removing stubborn dirt.
- Stains can be removed by using a sponge or a soft brush.
- Do not use strong cleaning liquids like solvents, nor use hard brushes.
- Never clean with steam and/or pressure washers.

Damage caused by the use of improper cleaning agents is not the responsibility of Vermeiren.

1.3.2 Plastic parts

Clean plastic parts of your bed with commercial plastic cleaners. Only use a soft brush or soft sponge. Take note of special product information.

Examples of plastic parts is the handset, etc.

1.3.3 Coating

The high quality of the surface layer guarantees optimal protection against corrosion. If the outer coating is damaged by scratching or in some other way, get your specialist dealer to repair the affected surface.

When cleaning, only use warm water and normal household detergents and soft brushes and cloths. Ensure that no moisture gets into the components (tubes, electronics, ...).

Initially the chrome parts only require rubbing with a dry cloth. Dull places or stubborn dirt can best be removed by using a suitable commercial chrome polish.

Dulling can be avoided by lightly greasing steel parts with Vaseline.

1.3.4 Electronics

Wipe the handset, motors with a cloth <u>moistened</u> by a few drops of a commercial domestic cleaner. Do not use any abrasives or sharp-edged polishing equipment like a metal scrubber or brush, since these can scratch the surface of the handset.



1.4 Inspection

For your safety and to ensure that your nursing bed remains functional even after prolonged use, it should be serviced regularly by an authorized specialist dealer whose work should be documented in the service plan. The dealer will enter maintenance work in the service plan. In general we recommend having annual servicing and servicing before each new usage. The following inspections need to be documented:

- Visually check the frame parts for plastic deformation, cracks and impaired functioning. (slatted frame, undercarriage, head-end, feet-end, lifting pole, attachment lifting pole, wheels).
- Visually check all plastic parts for cracks and brittle spots.
- Check the solidity and seating of all screws, nut connections.
- Visually check all housings for damage, screws must be securely fixed, seals and gaskets should not exhibit visible damage.
- Visually check for damage to the paintwork (danger of corrosion).
- Check the plug connectors for corrosion or damage, since it could affect the efficiency of the electronics.
- Check the operation of the braking wheels (free running, safety, locking, etc.).
- Verify the amount of grease on the metal joints of movable parts.
- Measure the resistance of the protective earth (Ohm) according to VDE EN62353.
- Measure the residual diversion current (A) according to VDE EN62353.
- Measure the insulation resistance (MOhm) according to VDE EN62353.
- Check the functioning of the side railings (locking, distances according to ISO 60601-2-52: 2009, also when loaded, deformation and wear through loading).
- Check the condition of the mattress (not when use of the bed is resumed).
- Completeness of the delivery condition, instruction manual available?

Only for electrical bed:

- Condition of the power cable (especially: squashing, abrasion, cuts, visible insulation or inner conductors, visible metallic veins, kinks, bulges, color changes of the outer covering, brittle places).
- Check the internal cabling of the power cable (especially: crushing, abrasion, cuts, visible insulation of the inner conductor, visible metallic veins, kinks, lumpiness, color changes of the outer sleeve, brittle spots).
- Visual inspection of the power cable (EPR or similar).
- Humidity protection of the electric system, at least IPX4 (see Type label).
- Check the device for suspending the power cable during transportation.
- The power cable and other electric cables to be securely placed to avoid shearing, crushing and other mechanical stresses and strains.
- Check the operation of the drives (over the full adjustment range of the motors → noises, speed, free running, etc., final switching (e.g. current limiting, main switch), if necessary: Measure the performance, first with no load, and then with the nominal load ("SWL") to investigate the wear and tear of the motors by comparing the values of the electric current with the values when the bed was delivered. Do not open the motors otherwise the warranty will lapse immediately.

Only for mechanical bed:

- Check functioning of the gas pressure spring (synchronized, deformation, oiled).
- Check functioning for the mechanical tooth adjustment mechanism (deformation, wear).



Electrical measurements may only be carried out by personnel trained on the nursing bed and instructed by an electrician about the instruments and procedures to be used. Only an electrician can approve the nursing bed for use after making the measurements and performing maintenance.

Servicing must be confirmed in the service plan when at least the above-mentioned aspects have been checked. Should your specialist dealer not perform the services you request, then contact the manufacturer. We shall gladly refer you to authorized specialist dealers in your area.

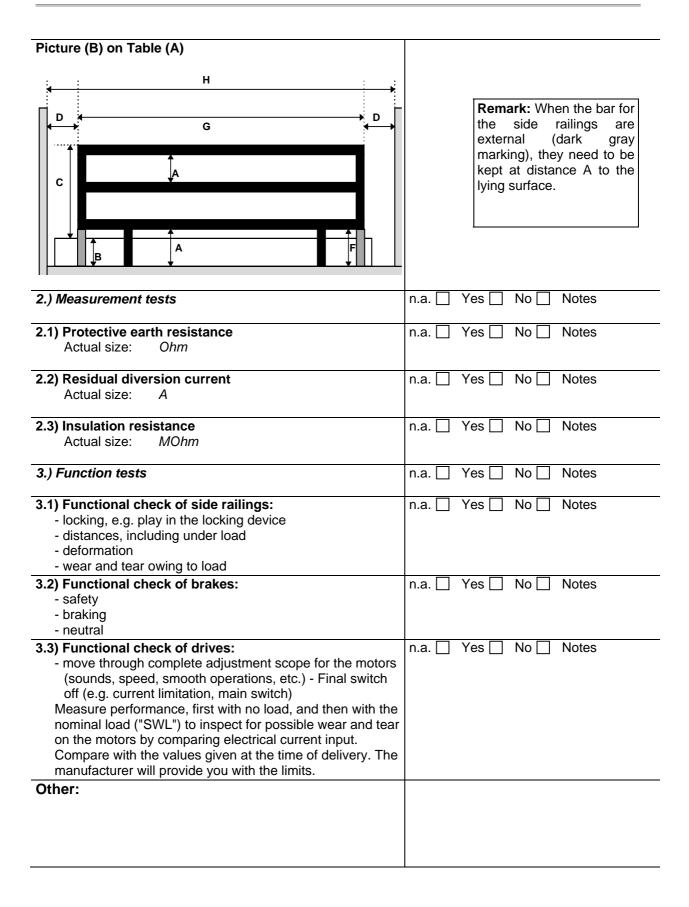
The manufacturer is not liable for damage caused by the lack of or improper servicing.

Requirement:	Remark:
1.) Visual check:	n.a. Yes No Notes
1.1) Power cable EPR cable or comparable quality	n.a. Yes No Notes
1.2) Condition of power cable In particular look for: Crushing, abrasion, cuts, visible insulation of the inner conductor, visible metallic veins, kinks, lumpiness, color changes of the outer sleeve, brittle spots)	n.a. Yes No Notes
1.3) Status of internal wiring In particular look for: Crushing, abrasion, cuts, visible insulation of the inner conductor, visible metallic veins, kinks, lumpiness, color changes of the outer sleeve, brittle spots)	n.a. Yes No Notes
1.4) Sufficient ease of pulling and power cable kink protection	n.a. Yes No Notes
1.5) Sufficient ease of pulling and kink protection for internal cables	n.a. Yes No Notes
1.6) The power cable and other electric leads must be wired securely so that shearing, squashing, and other forms of mechanical stress are unlikely.	n.a. Yes No Notes
1.7) Moisture protection IP66	n.a. Yes No Notes
1.8) Inspecting device for suspended power cables during transport.	n.a. Yes No Notes
 1.9) Check the frame parts for plastic deformation and/or wear and tear. undercarriage bed lift head-end, seat area, feet-end lifting pole fastening of lifting pole rolling castors 	n.a. Yes No Notes
1.10) Housing Visual inspection of all housings for damage. The screws need to be tightly fastened. The seals must not have any visual damage	n.a. Yes No Notes



Symbol	Size	Requirement in mm	
A	The smallest distance between the elements within the circumference of the side railings in an erect/inserted position, or the area included by the side railings and	A ≤ 120	Actual size: mm
	fixed parts of the bed.		
В	Thickness of the mattress in accordance with regulatory use	As indicated by manufacturer	Actual size: mm
С	Height of the top sides of the side railings over the mattress (see 'B') without compression.	C ≥ 220	Actual size: mm
D	Distance between the headrest or food part and the side railings.	D ≤ 60 or D ≥ 235	Actual size: mm
Е	Distance between side railings taken apart with the lying surface in flat position.	E ≤ 60 or E ≥ 235	Actual size: mm
F	Smallest distance of all accessible openings between the side railing and the lying surface.	If D \geq 235 then F \leq 60 If D \leq 60 then F \leq 120	Actual size: mm
G	Overall length of the side railings or sum total of the lengths of the side railings taken apart on one side of the bed.	G ≥ 1/2 of the length of the lying surface	Actual size: mm
Н	Distance between headrest and foot-end without extension of these parts.	No requirements	Actual size: mm
			NA Yes No Notes
ess than 1 atients, o	se side railings exceed the indicate 10 % must not be used with small therwise additional measures may such patients being clamped bugh.	I or underweight ust be taken to	n.a. Yes No Notes
or more	gs that exceed the indicated mea may not be used until the deficient and the rails must be exchanged	encies have been	n.a. Yes No Notes
cking, fix spected.	to the following points, the full fulling elements) of the side railings. Any defects must be eliminated a railing components in complian ketch.	must be Keeping the sizes	n.a. Yes No Notes







1.5 Troubleshooting

The following list will assist you with the troubleshooting of your bed. If you cannot found any fault please contact your specialist dealer.

Problem	Cause of problem	Solution
Power light indicator of the control box is not working.	 Not connected to the power supply. Fuse is damaged. Control box is damaged. 	 Connect the control box to the power supply. Send the motor or control box for reparation.
Power light indicator of the control box does not lit, motor is not working, relay in control box make a clicking sound.	 Motor plug is not connected very well in the control box. Motor is damaged. Control box is damaged. 	 Connect the motor plug in the control box. Send the motor or control box for reparation.
Power light indicator of the control box does not lit, motor is not working, relay in control box make no clicking sound.	Control box is damaged.Handset is damaged.	Send the control box or handset for reparation.
Power light indicator is lit, motor is working, but spindle is not working.	Worm gear is loose or worn.Supply voltage is too low.Bed is overloaded.	 Send the motor for reparation. Supply voltage must be 220V AC. Provide less weight on the bed, and let the motors rest.
Power light indicator is lit, motor and spindle are not working.	 Cables are not good connected. Cables are broken. Control box is damaged. Handset is damaged. Motor is damaged. 	 Connect the cables. Change the cable. Send control box, handset or motor for reparation.
Controle box is working, motor works only in one direction.	Handset is damaged.	Send handset for reparation.

1.6 Disinfection

⚠ WARNING: Dangerous Products - The use of disinfectants is restricted to authorized personnel.

MARNING: Dangerous Products, risk of skin irritation - Wear suitable protective clothing. Take note of the product information of the solutions concerned.

All parts of the bed can be treated by scrubbing with a disinfectant.

All steps taken to disinfect rehabilitation equipment, their components or other accessory parts are to be recorded in a disinfection report containing a minimum of the following information (with product documentation appended):

Date of the	Reason	Specification	Substance and	Signature
disinfection			concentration	-

Table 1: Example of a disinfection book

Abbreviations used in column 2 (reason):

V = Suspected infection IF = Infection case W = Repetition I = Inspection

For a blank sheet of a disinfection book see § 5.

The recommended disinfectants for scrubbing (based on the list provided by the Robert Koch Institute, RKI) are standing in the table below. The current state of the disinfectants included in the RKI list can be obtained from the Robert Koch Institute (RKI) (homepage: www.rki.de).



Active substance			Laundry Surface disinfection disinfection (scrubbing-/wiping diluted solution)		or sto	ools +	2 parts		Area of effectiveness	Manufacturer or Supplier			
				disinfe	€		outum		ools	U	rine		
		Diluted solution	Time to take effect	Diluted	Time to take effect	Diluted solution	Time to take effect	Diluted solution	Time to take effect	Diluted solution	Time to take effect		
		%	Hr.	%	Hr.	%	Hr.	%	Hr.	%	Hr.		
5	Amocid	1	12	5	6	5	4	5	6	5	2	Α	Lysoform
Phenol or phenol derivative	Gevisol	0,5	12	5	4	5	4	5	6	5	2	Α	Schülke & Mayr
4044	Helipur			6	4	6	4	6	6	6	2	Α	B. Braun
	m-cresylic soap solution (DAB 6)	1	12	5	4							A	
	Phenol	1	12	3	2							Α	
Chlorine, organic or inorganic	Chloramin-T DAB 9	1,5	12	2,5	2	5	4					A ¹ B	
substances with	Clorina	1, 5	12	2,5	2	5	4					A ¹ B	Lysoform
active chlorine	Trichlorol	2	12	3	2	6	4					A ¹ B	Lysoform
Per combinations	Apesin AP100 ²			4	4							AB	Tana PROFESSIONAL
	Dismozon pur ²			4	1							AB	Bode Chemie
	Perform ²			3	4							AB	Schülke & Mayr
	Wofesteril ²			2	4							AB	Kesla Pharma
Formaldehyde	Aldasan 2000			4	4							AB	Lysoform
and/or other	Antifect FD 10			3	4							AB	Schülke & Mayr
aldehydes or derivatives	Antiseptica surface disinfection 7			3	6							AB	Antiseptica
	Apesin AP30			5	4							Α	Tana
	Bacillocid special			6	4							AB	PROFESSIONAL Bode Chemie
	Buraton 10F			3	4							AB	Schülke & Mayr
	Desomed A 2000			3	6							AB	Desomed
	Hospital disinfectant cleaner			8	6							AB	Dreiturm
	Desomed Perfekt			7	4							AB*	Desomed
	Formaldehyde- solution (DAB 10), (formaline)	1,5	12	3	4							AB	
	Incidin Perfekt	1	12	3	4							AB	Ecolab
	Incidin Plus			8	6							Α	Ecolab
	Kohrsolin	2	12	3	4							AB	Bode Chemie
	Lysoform	4	12	5	6							AB	Lysoform
	Lysoformin Lysoformin	3	12	5 4	6							AB AB	Lysoform Lysoform
	2000 Malaant	2	10	4								A.D.	B. Braun
	Melsept Melsitt	2	12 12	10	6							AB AB	B. Braun
	Minutil	2	12	6	4							AB	Ecolab
	Multidor		12	3	6							AB	Ecolab
	Nûscosept			5	4							AB	Dr. Nüsken Chemie
	Optisept			7	4							AB*	Dr. Schumacher
	Pursept-FD			7	4							AB*	Merz
	Ultrasol F	3	12	5	4							AB	Fresenius Kabi
Amphoteric surfactants (amfotensiden)	Tensodur 103	2	12	Ü								A	MFH Marienfelde
Lye	Lime-milk ³							20 ence o	6			A ³ B	

¹ Not effective against myco-bacteria when service disinfecting, especially in the presence of blood.

Table 2: Disinfectants

Kindly consult your specialist dealer if you have queries on matters related to disinfection; he will gladly assist you.

² Not suitable for disinfecting blood-contaminated or porous surfaces (e.g. raw wood).

³ Useless for tuberculosis; preparation of Lime-milk: 1 part dissolved lime (calcium hydroxide) + 3 parts water.

^{*} Checked for effectiveness on viruses in accordance with checking methods of the RKI (Federal Health Reporting 38 (1995) 242).

A: Suitable for killing vegetative bacterial germs including myco-bacteria as well as fungi, including fungal spores.

B: Suitable for deactivating viruses.



2 Warranty

Excerpt from the "General Business Conditions":

(...)

5. The terms of the guarantee may differ from country to country. Consult your specialist dealer for the guarantee period for warranty claims.

(...)

Claims are invalid when:

- the agreed condition is only minimally deviated from
- usability is only minimally impaired
- wear and tear is normal
- faults are due to improper assembly or neglected maintenance
- faults are due to improper use
- Faults are due to improper handling by customers or their contractual partners or workshops
- for damage resulting from faulty or negligent treatment, excessive wear, inappropriate equipment, faulty installation or due to special influences not included in the contract after the transfer of goods.

(...)

The terms of the guarantee may different from country to country. Please contact your dealer for further information.

3 Disposal



A local waste disposal company will tell you where you can take the nursing bed to be recycled free of charge. It may not be disposed of with domestic waste.

The manufacturer is responsible for taking back and recycling the bed and shall meet the requirements of European Directive 2002/96/EC on Waste Electrical and Electronic Equipment.

Packaging materials can be taken to disposal or recycling centers.



4 Maintenance plan

Maintenance	Remarks	Paraph
Greasing and general servicing	non	

5 Disinfection book

Date of the disinfection	Reason	Specification	Substance and concentration	Signature			
Abbreviations use	Abbreviations used in column 2 (reason):						
V = Suspected infection IF = Infection case W = Repetition I = Inspection							



The bed was serviced:	
The bed was serviced.	
Declar's stems	Declar's stame:
Dealer's stamp:	Dealer's stamp:
Date:	Date:
Dealer's stamp:	Dealer's stamp:
·	'
Date:	Date:
Dealer's stamp:	Dealer's stamp:
Date:	Date:
Date.	Date.
Dealer's stamp:	Dealer's stamp:
Dealer S stamp.	Dealer's stamp.
Date:	Date:
Dealer's stamp:	Dealer's stamp:
Date:	Date:

• For service checklists an additional technical information, please see our specialist dealers nearest to you. More information on our website at: www.vermeiren.com.

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