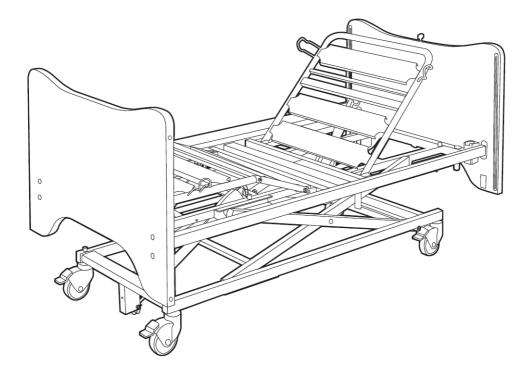
Technical Manual KALIN Junior Medical Beds



TM_KALIN_EN 11/04/2025

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PREREQUISITES

The user or staff must be trained and informed of the risks associated in using the bed. They must prohibit its use and be vigilant when it is used by confused or disorientated people.

The activation by a child of a feature of the medical bed shall be conditional upon the demonstration by a health professional of the child's physical and mental capacities to select in on the suspended handset

Lay out the bed in the room, considering the perimeter of use for the different functions (variable height, Trendelenburg, etc.), particularly if it is equipped with an angled lifting pole or bed rails.

The correct operation of the device must be checked after it has been installed in accordance with the checklist attached to this document (testing of all functions).

The patient is the intended operator of the bed. Users must be trained in the use of the device.

The patient and his visitors must be informed of the safety instructions to be followed.

TRANSPORT AND STORAGE

For transport, the bed should be in its low position, and strapped and protected. The wired control and supply lead should be attached to the bed base.

The head and foot boards are protected and strapped to the sleeping surface.

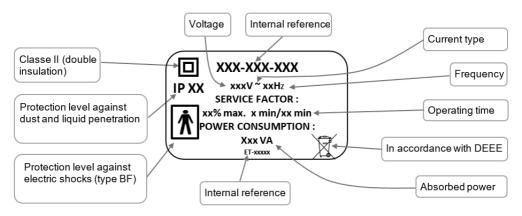
The bed should be transported upright when in its original packaging in compliance with the instructions printed on the packaging.

Warning: It is strictly forbidden to stack packages weighing over 60 kg/m², whatever the position they are in.

Before transporting or dismantling the bed, make sure the back and leg rests are fixed to the frame of the bed base.

ELECTRICAL CHARACTERISTICS

ELECTRICAL DATA



ELECTROMAGNETIC COMPATIBILITY

Precaution: Although the bed is conforming with Electromagnetic Compatibility, some devices may alter how it functions, in which case they must be used at a distance or not used at all.

Warning: The bed is an electromedical device requiring special precautions with regard to electromagnetic compatibility. The device must be installed and put into service according to the electromagnetic compatibility information provided in this technical manual.

Warning: The use of accessories, transducers, and cables other than those specified or supplied by the manufacturer may cause increased electromagnetic emissions or a decrease in the immunity of the device and may cause improper operation.

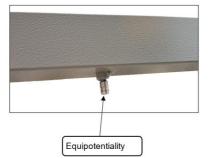
The bed will not move automatically when subject to electromagnetic disturbances within the limit of the values indicated below:

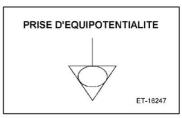
Manufacturer's declaration and guide – Electromagnetic emissions							
The medical bed (see references in contents) has been designed for use in the electromagnetic							
environment specified below. The user should ensure that it is used in such an environment.							
Emissions test	ssions test Compliance ELECTROMAGNETIC ENVIRONMENT -						
RF emissions CISPR 11	Group 1	The medical bed (see references in contents) uses RF energy only for its internal functions. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.					
RF emissions CISPR 11	Class B	The medical bed (see references in contents) can be used					
Harmonic emissions EN 61000-3-2	Class A	in all domestic environments, including those directly connected to the public low-voltage power supply					
Voltage fluctuations / Flicker EN 61000-3-3	Compliant	network that supplies buildings for domestic purpose.					
RF emissions CISPR 14-1	Not Applicable	The medical bed (see references in contents) has not been designed for connection to other equipment.					
Man	ufacturer's declarati	on and guide - electromagnetic immunity					
The medical bed (see references in con	tents) has been designed for use in the electromagnetic					
environment spe	cified below. The use	r should ensure that it is used in such an environment.					
IMMUNITY TEST	IEC 60601 Severity level	COMPLIANCE LEVEL					
Electrostatic discharge EN 61000-4-2	\pm 8 kV contact \pm 15 kV air	\pm 8 kV contact \pm 15 kV air					
Radiated RF EN 61000-4-3	3 V/m 80Mhz – 2,7Ghz 80% AM at 1kHz	3 V/m 80Mhz – 2,7Ghz 80% AM at 1kHz					
Proximity fields from RF wireless	See table below	See table below					

	VIN	INCARE France
communication equipment EN 610004-3		
Electrical fast transients EN 61000-4-4	± 2 kV for feeders ±1 kV for input/output lines Repetition frequency at 100 kHz	\pm 2 kV for feeders \pm 1 kV for input/output lines Repetition frequency at 100 kHz
Surges EN 61000-4-5	$\begin{array}{c} \text{Differential mode} \\ \pm 1 \text{ kV} \\ \text{Common mode} \pm 2 \\ \text{kV} \end{array}$	Differential mode \pm 1 kV Common mode \pm 2 kV
Conducted RF EN 61000-4-6	3V 0,15 – 80 MHz 6V in ISM band between 0.15 and 80 MHz	3V 0,15 – 80 MHz 6V in ISM band between 0.15 and 80 MHz
Magnetic fields IEC 61000-4-8	30A/m	30A/m
Voltage dips EN 61000-4-11	50 Hz or 60 Hz 0% U _T ; 0,5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% U _T ; 1 cycle 70% U _T ; 25/30 cycles at 0°	50 Hz or 60 Hz 0% U _T ; 0,5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% U _T ; 1 cycle 70% U _T ; 25/30 cycles at 0°
Voltage interruptions EN 61000-4-11	0% U _T ; 250/300 cycles	0% U _T ; 250/300 cycles
NB:	U_{T} is the nominal valu	e of power voltage applied during the test.
Test s	pecification for immu	nity to RF wireless communications devices
Test frequency (MHz)	Modulation	Immunity test level (V/m)
385	Pulse Modulation: 18 Hz	27
750	FM + 5 Hz deviation: 1 kHz	28
750	sine	
710 - 745 - 780		9
	sine Pulse Modulation:	9 28
710 – 745 – 780	sine Pulse Modulation: 217 Hz Pulse Modulation:	
710 - 745 - 780 810 - 870 - 930	sine Pulse Modulation: 217 Hz Pulse Modulation: 18 Hz Pulse Modulation:	28

EQUIPOTENTIALITY

Under the head-half of the bed base you will find an equipotentiality socket, identified by the label, enabling you to connect any electromedical devices. The leads of these devices must pass through the head end and not on the side.





TECHNICAL CHARACTERISTICS

NOISE

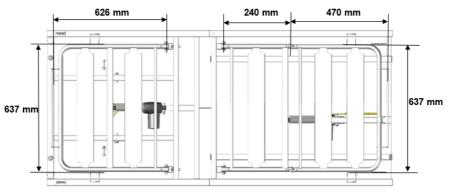
The measurement of the maximum audible sound power in accordance with ISO 3746 is 45,2 dB(A).

PRECAUTION - USE OF A PATIENT LIFT / DINING TABLE

WINNCARE France recommends the use of a patient lift, or a dining table bases with less than 12 cm high.

DIMENSIONS

WINNCARE France recommends using a patient lift or a dining table with bases no higher than 12 cm.



ELECTRICAL COMPONENTS

Designation	Туре	Protection index	V/Hz
Absorbed power	200 VA		
Control box	IP66	230 VAC – 50 Hz	
LINAK actuator	LA27	IP66	24 VDC

WINNCARE France						
Lockable wired control	HL7x	IP54	24 VDC			

Warning: Maximum operating time \rightarrow Read the recommendations on the electrical label on the bed.

Meaning of protection ratings:

- IP66:
 - Protection against solids: Totally protected against dust,
 - Protection against water intrusion: Protected against strong water jets from all directions to the lance (12.5 mm nozzle, distance 2.5 m to 3 m, flow rate 100 L/min ± 5%).
- IP54:
 - o Protection against solids: Protected against dust and other microscopic residues,
 - Protection against water intrusion: Protected against strong water jets from all directions at the lance (6.3 mm nozzle, distance 2.5 m to 3 m, flow 12.5 L/min ± 5%).

COMPATIBLE MATTRESSES

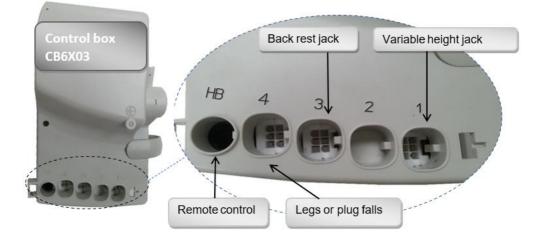
Warning: The difference between the top of the barrier and the surface of a non-therapeutic, uncompressed mattress must be at least 220 mm. When using a therapeutic mattress, you should aim for this specification.

Respect the prescribed mattress dimensions:

- 80 cm slat base width: compatible mattress with a width of 82 cm.

Warning: Incompatible mattresses can create hazards. We recommend using ALOVA Junior mattresses from WINNCARE France.

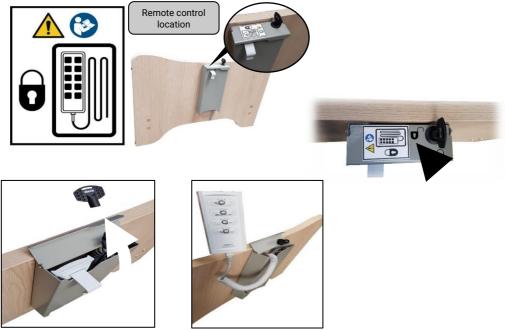
ELECTRICAL CONNECTION DIAGRAM



REMOTE CONTROL KALIN

REMOTE CONTROL LOCATION ON THE BED

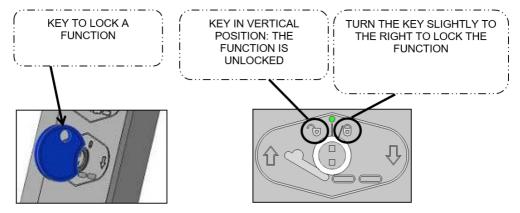
The remote control and its cable are protected in a lockable box when the bed is not in use and the bed's functions are not modified. This prevents any risk of accidental activation and suffocation.



REMOTE CONTROL FUNCTIONS

KALIN remote control functions are described in the instructions for use.

LOCK REMOTE CONTROL FUNCTIONS



INSTALLING ACCESSORIES AND SPECIAL FEATURES

WOODEN BARRIERS A680-00

Please refer to the instruction for use and technical manual for this product.

Warning: Incompatible side barriers can cause hazards.

The wooden barriers are designed to be used on WINNCARE France beds with a length of 1700 mm, with panels provided with the necessary reservations for their installation.

The barrier was tested in accordance with the test method of the park bed standard NF EN 50637 :2017. These must be combined with mattresses whose technical characteristics are indicated in the instructions for use of the bed.

WALL STOP A551-00



ANGLED LIFTING POLE AND IV STAND

Positioning of the stem and the IV pole on the bed base:



Specific features of the jib crane and lifting handle:

The A681-00 stem has been sized for junior medical beds and complies with standard EN 50637.

Specific features of the A681-00:

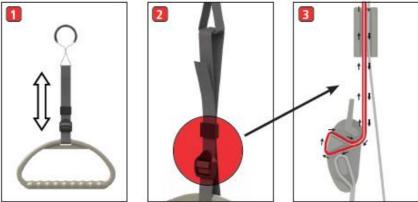
Maximum patient weight is 45 kg.

- Precautions for use of the angle lifting pole
- Replace the handle immediately if you notice any damage to the handle itself or its components.

- Ensure that the height of the handle is correctly adjusted in relation to the patient.
- Keep the handle away from sources of high heat such as cigarettes or open flames and observe the environmental conditions specified here.
- The handle must not be rotated several times around the vertical axis (more than 180°) when hooked up.

Height adjustment

The length can be adjusted by adjusting the strap using the plastic buckle. The handle must always be unloaded.



Side view: plastic buckle + strap.

Maintenance

The recommended lifetime of the stem handle is influenced by many factors, such as temperature, humidity, UV radiation, contact with chemical substances, stress, etc. Careless handling can also cause premature wear and ageing of the plastics and/or the textile strap, without the manufacturer having any direct influence on this. Careless handling can also cause wear and premature ageing of the plastics and/or textile webbing, although the manufacturer has no direct influence on this. We therefore recommend replacing the stem handle after 5 years, even if no external damage is visible.

The recommended service life and maintenance intervals shown below apply from the date of installation.

Maintenance intervals:

- Function test: every three months,
- Check of plastic parts: every three months,
- Check straps and seams: every three months,
- Checking the anti-slip protection: once a year,

If the function test or maintenance reveals serious faults, the product must be replaced immediately.

DEFAULT	POSSIBLE CASE	HELP
The whole bed is not working	The bed is not electrically powered	Check the electrical connection (Green power LED on control box)
	The remote control is fully locked	Unlock the remote control

TROUBLESHOOTING GUIDE

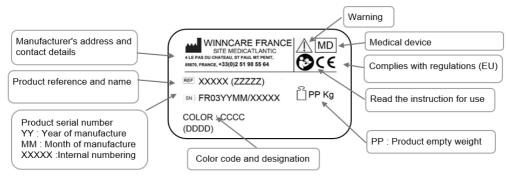
WINNCARE France								
	The infrared remote control is not powered or is not connected to the receiver.	Remove the rear cover Check batteries Reverse the small contactor on top of the remote control						
	One or more cables are not connected properly	Check the correct connection of the electrical cables Check for the presence of anti-tear clips at the cable connections						
	One or more cables are cut or pinched	Check the condition and passage of electrical cables						
	An electrical element is defective	Contact after sales service						
The entire bed does not work, a short and discontinuous beep sounds when a key is pressed on the remote control	The control box is faulty	Do a reset of the control box (§ Specific use) or contact after sales service if a reset is impossible						
A continuous beep sounds when a key is pressed on the remote control	The backup battery has reached its last cycle	Reconnect the bed to the mains to recharge the battery						
A long and discontinuous beep is emitted when the bed is in the high position (normal event)	The bed is no longer braked (position on wheels, normal event)	Press down on the variable height to remove the wheels (normal use)						
	The function is locked on the remote control	Unlock the function on the remote control						
	The movement has reached the stop	Operate the opposite direction of movement on the remote control						
The selected	An external element blocks the mechanism	Remove the blocking element						
function of the bed does not work	One or more cables are not connected properly	Check the correct connection of the electrical cables Check for the presence of anti-tear clips at the cable connections						
	One or more cables are cut or pinched	Check the condition and passage of electrical cables						
	An electrical element is defective	Contact after sales service						
The selected function of the bed	The movement has reached the stop	Operate the opposite direction of movement on the remote control						
is interrupted during movement	The movement has reached a memorized position (normal event)	Release the button on the remote control and then press (normal cycle)						

WINNCARE France								
	An external element blocks the mechanism Remove the blocking element							
	The putting on wheels is not carried out or incomplete	Press the remote control to put the bed on its wheels until the movement stops						
Bed cannot be moved / moves with difficulty	Directional wheel hinders movement	Put the pedal in the 4-wheel free position						
	An external element blocks the mechanism	Remove the blocking element						
	One or more wheels are defective	Contact after sales service						

MAINTENANCE

Warning: No maintenance should be done in the presence of a patient on the bed.

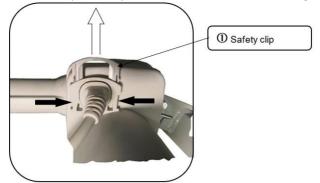
IDENTIFICATION



INSTRUCTIONS FOR DISMANTLING THE MOTORS

Warning: Unplug the device before dismantling.

- Dismantle when the bed is empty or in the side position.
- If dismantling in any other position, keep a firm hold of the moving parts to avoid any shearing.
- Unblock the safety clips (1), unplug the motor leads, and remove them from the securing seals.
- Put the motors back in place and put in the same direction as at the beginning.



MAINTENANCE

Quality control of medical beds and its accessories will be made by technical staff or trained biomedical and taking into account the normal conditions of use specified in the user guide.

The bed must be available to perform all quality control at least once a year, but also on special request and corrective maintenance on the performance that could be affected by the intervention. However, to save time this may be associated with preventive maintenance. In this case, it is not useful to make a further examination of already controlled performance.

RECOMMENDATIONS for PREVENTIVE MAINTENANCE:

Preventive maintenance should be carried out in accordance with our specifications and at least once a year by the organisation or person who installed the bed.

Between two maintenance sessions and at least once a year, the following should be carried out:

- Verification that the electrical leads are connected all along the metal jambs to prevent shearing of these leads when the variable height is being activated.
- Verification that all the electrical leads and plugs are in good condition. Replacement if there is the slightest alteration (wear, shearing, damage, etc.).
- Verification of the external appearance (traces of damp and good overall condition of protective covers in particular) and that the motors and jacks function properly.
- Verification that the bed is in good working order (test all functions).
- Verification that the frame, bed base and mechanical joints are all in good condition.

When maintenance is carried out at the patient's home as part of a long-term contract, the installer must also:

- Check that the bed is properly installed (check to see that there hasn't been any modification contrary to the safety instructions made by the user since the bed's installation).
- Remind the users of the safety instructions.
- All installation and preventive maintenance operations must be recorded. See table model below. This record must be kept in a designated area throughout the bed's lifetime.

MEDICAL BEDS CONTROL SHEET



Send form Reset form

Save



ANNUAL MAINTENANCE OF MEDICAL BEDS

	IDENTIFICATION					
Type model / Trademark :						
Date of manufacture :						
Serial or park number :						
Application Environment	11	2	3	41	5I I	

VISUAL CONTROL	Not applicable	Congruent	Improper
Identification - label			Г
General cleanliness			П
Condition and attachment of head and footboards		10	11
Lifting pole (fastening, strap, winder,)		1.1	1
Sleeping surface (bedspring)		E	E
Verification of tightenings, axle, circlips + diverse nuts and bolts, pins, pivot			1
Remote controls (displays, lights and locking)			П
Bed specific side rails			
Space between head of bed and siderail (< 60 mm)*		11	1
Space between the half siderails (< 60 or > 318 mm)*		10	11
Condition, mounting direction, adaptation to bed			- E

FONCTIONAL CONTROL	Not applicable	Congruent	Improper
Mobile parts (variable height, backrest, legrest, Trendelenburg)		11	1
Remote controls including functions locking		11	1
Wheels (pivoting, rolling, fouling)		E	Г
Braking		1	1
Fixing of siderails and locking in high position (closed)		10	E.
Absence of sound disturbances (squeaking, lubrications)		1	- E

CPR CONTROL	Not applicable	Congruent	Improper
Retracting headboard in case of emergency (App. envir. 1 & 2)	1	11	1
Emergency flattening of backrest			- E

ELECTRICAL CONTROL								Not applicable	Congruent	Improper
Status of electrical cables, plugs and connectors								E.	E.	
Status of electrical equipment (controlbox, actuators,)								10	1	
Recurrent test following standard NF EN 62353 (see test report for more details)							11	10		
Obsolescence : New	2	3	4	5	Decn	epit				
Observations						Made on : Name		e:		
						Signature and stamp of	technician	Signatur	e of customer	
following standard IEC- 60601-2-62										

CLEANING AND DISINFECTION

High pressure cleaning, or jet cleaning is prohibited.

Unplug the mains lead.

Check that all the electrical parts are connected. All the sockets of the supply box must be used or filled, otherwise its watertightness is not guaranteed.

Clean the electric covers of the jacks and wired control by means of a mop impregnated with a detergentdisinfectant product.

The medical bed is a non-critical appliance requiring "Low Level" disinfection.

We draw your attention to the fact that the recommendations below are drawn up according to the rules of good practice but are not a protocol. Contact the hospital hygiene department.

> AIM

To recondition the bed and prevent the transmission of germs from one patient to another. To eliminate all organic soiling by:

- Physical action (cleaning),
- Chemical action (disinfection).

> INDICATION

Physical and bacteriological cleanliness of the bed and its accessories.

- EQUIPMENT
- Microfiber wipes.
- Detergent or Detergent-Disinfectant (Surface DD with CE mark) and surface Disinfectant (Chlorine substances, alcohol base < 30%).

Warning: undiluted DD products falling under the status of biocide pursuant to Regulation 528/2012 relating to the availability on the market and the use of biocide products and chloride bleach shall not be used pure. A remanence time must be applied according to the disinfectant manufacturer's instructions (the drying time without human presence is often the same as the remanence time) (Refer to the instruction manual)

- SANIVAP steam appliance with accessories.
- > TECHNICAL
- Daily maintenance with a surface DD product in one operation.
- Maintenance when the patient leaves, or periodically, by the process known as Bio cleaning observing the 3 operations:
 - Cleaning is done by means of a cloth soaked in a surface detergent or Detergent-Disinfectant (DD) solution,
 - o Rinsing is done with cloth rinsed in clean water,
 - Disinfection is done by means of a cloth soaked in a surface disinfectant solution.
- Specific maintenance by specialist contractors after removal of the bed from the establishment:
 - Bio cleaning operation, or,
 - Steam cleaning (accessory with microfiber band) of the flat surfaces and the base slats. Change the washing mops regularly to prevent water accumulating. Clean the parts that are difficult to access with a steam nozzle (wheels, hinges after opening, corners, etc.). For tubes, use the steam nozzle with a microfiber cloth. Never direct the nozzles onto electrical boxes or actuators.
 - o Dry hinges with compressed air

 \circ Attention: Disinfect jacks, electrical boxes and remote controls with a microfiber cloth soaked in disinfectant.

Do not rinse or wipe.

- Check the operation of all the bed functions,
- Repair, if necessary,
- Pack in thermoplastic film.

Warning:

- In the event of additional precautions (Contact precautions, Droplets or Air), apply the measures recommended by the hospital hygiene department,
- The use of a Javel water solution of more than 5000ppm (0.5% of active chlorine) should be justified by a microbiological risk and only applied for the required time (Risk of ageing of some materials, especially their colour),

- The concentration of alcohol-based surface disinfectant solutions should be less than 30%. Note: The use of the terminal disinfection process is compatible with the medical bed and its accessories.

SCRAPPING

The product must be scrapped if the main requirements are no longer met, particularly when the product no longer has its original characteristics and has not been subject to corrective action during the manufacturing process.

Measures should therefore be taken to ensure that the bed is no longer used for the purpose it was originally intended.



The crossed-out bin symbol indicates that the electrical elements of the WINNCARE France product are considered to be Electrical and Electronic Equipment (EEE), subject to EU Directive 2012/19 / EU on the Selective sorting of electrical and electronic waste (DEEE); batteries and accumulators that can be used in these products fall within the scope of the European Union and Council Directive 2006/66 / EC of 6 September 2006 on batteries and accumulators and waste batteries and accumulators. The complete product and / or the easily detachable electrical part and the batteries / accumulators contained in WINNCARE France products must therefore be separately sorted in the countries of the European Union.

For France and DOM-TOM, WINNCARE France provides you with suitable recycling solutions for these Electrical and Electronic Equipment (EEE), information is available on the website <u>https://www.winncare.fr</u> or by contacting WINNCARE France at n ° +33 (0)4.66.02.15.15.

WINNCARE France also encourages you to limit the possible effects of waste on the environment and public health in all other countries, by complying with local selective sorting laws, separating waste from Electrical and Electronic Equipment (EEE), as well as batteries and accumulators.

SPARE PARTS

A list of spare parts is available from WINNCARE France after-sales service:

- Mail: <u>sav@winncare.fr</u>

WARRANTY

- All of our products carry a warranty against any manufacturing defect, provided the normal conditions for use and maintenance are complied with.
- Labour costs due to changes in structures or parts under warranty are not taken into account.
- Please refer to the standard terms of sale for the specific terms of warranty for each product.
- Every time you contact us for possible maintenance, you must quote us the information on the bed identification label and on the electric parts if these are concerned.
- Original parts shall be supplied for replacement, within the term of warranty, by our customer sales network determining the beginning of the term of warranty.
- Defective parts must be returned to ensure proper application of this warranty and also to avoid any invoicing.

WIN CARE



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