

DC POWERED VACUUM GLASS LIFTER

OWNER'S MANUAL

PRODUCT CODE: ARGL-500



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The DC Powered Vacuum Glass Lifter ARGL-500 is suitable for lifting and transporting glass elements of up to 500kg. This device can be used to install windows and large glass sheets with the aid of a forklift, counter balance crane or overhead hoist. On-board DC power systems provide cord-free operation at the job site. Movable vacuum pads and extension arms allow the DC Powered Vacuum Glass Lifter - ARGL-500 to handle glass in nearly every size and shape.



1. SPECIFICATIONS

ARGL-500	Metric (mm-kg)	Imperial (inch-lb)
Number of pads	4	-
Pad dimension	300	12"
Working load limit	Vertical: 400 Horizontal: 500	882 1102
Net weight	69	152
Gross weight	95	209
Packaging dimension	1070x970x450	42.1"x38.2"x17.5"

 Battery for lifter: 	 Battery charger for lifter:
Code battery: M12B6 Milwakee	Battery charger: C12C Milwakee
Type battery: Lithium-ION	Input supply voltage: 100-240VAC
Voltage: 12V	Output voltage: 12V
Current: 6.0Ah	Output current: 3.0Ah
Quantity: 1	Quantity: 1
Continuous operation time: 2 hours	Fully charger time: 2.5 hours
Working time: 6 hours	Weight: 460 gram
Motor information	

Vacuum flow rate	32.5 liters/minute
Motor	12V DC-4A







2. FEATURES

- Spring-loaded vacuum pads
- Manual rotation of 360° with 45° step
- Manual tilting by 90° in 15° grid
- Removable arm depth minimum 150mm
- Integrated vacuum reservoir tank
- Integrated instrumentation for monitoring the vacuum and the energy supply
- Visual and audible warning devices
- Self-contained 12-volt battery power supply with high capacity
- Extension arms allow the handling of large-sized sheets
- Adjustable arms



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DC POWERED VACUUM GLASS LIFTER ARGL-500

PARTS LIST

CODE	POSITION	DESCRIPTION	QTY	CODE	POSITION	DESCRIPTION	QTY
ARGL500-001	01	Cover_2	01	ARGL500-036	36	Spring	01
ARGL500-002	02	Base_2	01	ARGL500-037	37	Rotation base	01
ARGL500-003	03	Truss head screws M4x10	46	ARGL500-038	38	Locking Pin	01
ARGL500-004	04	Hexagon Socket Head Cap Screw M6 x 12	08	ARGL500-039	39	Hexagon Socket Head Cap Screw M5x20	01
ARGL500-005	05	Battery	01	ARGL500-040	40	Nut M25	01
ARGL500-006	90	Battery bracket	01	ARGL500-041	41	Vaccum Tank	01
ARGL500-007	07	Filter	01	ARGL500-042	42	Connection G1/8 - Ø4	01
ARGL500-008	80	Elbows G3/8	02	ARGL500-043	43	Rotation pin	01
ARGL500-009	60	Fitter bracket	01	ARGL500-044	44	Hexagon Socket Countersunk Head Screw M8x20	90
ARGL500-010	10	Base_1	4	ARGL500-045	45	Arlarm	01
ARGL500-011	11	Electric valve	01	ARGL500-046	46	Check Valve	01
ARGL500-012	12	Grommet	90	ARGL500-047	47	Nipple fitting G1/4	08
ARGL500-013	13	Cover_1	4	ARGL500-048	48	Vacuum pump	01
ARGL500-014	14	Divider	01	ARGL500-049	49	Spring	24
ARGL500-015	15	Elbows G1/4	60	ARGL500-050	50	Circuit	01
ARGL500-016	16	Frame	01	ARGL500-051	51	Divider	01
ARGL500-017	17	Extension Bar	4	ARGL500-052	52	Release button	02
ARGL500-018	18	Suction Cup Ø310	4	ARGL500-053	53	Power button	01
ARGL500-019	19	Suction Cup Ø310 bracket	2	ARGL500-054	54	Green signal light	01
ARGL500-020	20	Sensor switch pad	01	ARGL500-055	55	Red signal light	01
ARGL500-021	21	Sensor switch	02	ARGL500-056	56	Battery gauge	01
ARGL500-022	22	Sensor switch cover	01	ARGL500-057	57	Vacuum gauge	01
ARGL500-023	23	Pin Ø20	01	ARGL500-058	58	Lid	01
ARGL500-024	24	Pin Ø16	04	ARGL500-059	59	Start button	01
ARGL500-025	25	Cotter pin	60	ARGL500-060	60	Truss head screws M4x10	03
ARGL500-026	26	Bushing	24	ARGL500-061	61	Spring pins Ø10	08
ARGL500-027	27	Hexagon Socket Head Cap Screw M8x30	24	ARGL500-062	62	Pin Ø16	6
ARGL500-028	28	Plastic Plate	01	ARGL500-063	63	Base_4	0
ARGL500-029	29	Hook	01	ARGL500-064	64	Cover_4	01
ARGL500-030	30	Locking arm	01	ARGL500-065	65	Hexagon Socket Head Cap Screw M6x20	01
ARGL500-031	31	Locking base	01	ARGL500-066	99	Pin Ø9.8	02
ARGL500-032	32	Hexagon Socket Head Cap Screw M10x80	03	ARGL500-067	67	Pin Ø10	01
ARGL500-033	33	Hand Knob M6 (Female Thread)	02	ARGL500-068	68	Base_3	01
ARGL500-034	34	Stopper	01	ARGL500-069	69	Cover_3	01
ARGL500-035	35	Locking body	01				

TO SET UP THE LIFTER

1. Open the shipping container and remove all materials for restraining or protecting the vacuum lifter. Save the container for use whenever the lifter is transported.

2. Suspend the lifter from a crane as follows: Select hoisting equipment (crane and hoist, when applicable) rated to carry the maximum load weight plus the lifter weight **Note:** Any application of the lifter must conform to all statutory or regulatory standards that relate to the hoisting equipment when used in its geographical location (eg, relevant OSHA standards in the USA).

Disengage the tilt latch and raise the lift bar to a vertical orientation. Then attach the hoisting equipment hook to the lift bail.

WARNING:

• Hoisting equipment hook must be fitted with restraining latch to prevent lift bail from slipping off under any circumstances.

Note: Some hoisting equipment hooks could interfere with an upright load that extends beyond the lifter's pad frame.

If the load would contact the hook during lifter operation, the operator must prevent this by attaching a sling (or other rigging that does not interfere with the load) between the hook and the lift bail.

- Any sling used must be rated to carry maximum load weight plus lifter weight.
- Use the hoisting equipment to raise the lifter out of the shipping container. Be careful to avoid damaging any vacuum pads. Remove the pad covers and save them for use whenever the lifter is stored.

3. Arrange the pad frame in the configuration that will provide optimal support of the load while lifting

4. Connect the electrical connectors uniting the battery to the battery charger and the vacuum generating system. Now the lifter is operational.

5. Perform Operational and Load Tests for the lifter as directed in MAINTENANCE: TESTING SCHEDULE.

TO CHANGE THE PAD FRAME CONFIGURATION

This lifter offers a variety of pad frame confi gurations to accommodate different load dimensions.

Configurations are created by installing or removing the pad frame's extension arms and by repositioning the vacuum pads, which have movable mounts. Select a configuration to provide optimal support across the load surface and to minimize load overhang. Assemble the pad frame in a symmetrical arrangement, to keep the lifter balanced, and make sure all vacuum hoses are secure and routed to avoid being pinched, snagged, abraded or otherwise damaged while the lifter is in operation.





Standard ARGL-500 shown.

- 1. LIFT BAIL
- 2. BATTERY
- 3. TILT RELEASE LEVER
- 4. VACCUM RESERVE TANK
- 5. ROTATION WEAR PLATE
- 6. ROTATION RESERVE LEVER
- 7. ENCLOSURE WITH VACUUM SWITCH
- 8. VACUUM PAD
- 9. CHECK VALVE
- 10. AIR FILTER
- 11. COVER FOR MACHINE

- 12. VACUUM PUMP
- 13. CONTROL HANDLE
- 14. PAD FRAME
- 15. VACUUM GAUGE
- 16. LOW VACUUM WARNING LIGHT
- 17. SLIDE VALVE
- 18. ON/OFF SWITCH
 - 19. BATTERY TEST BUTTON
 - 20. BATTERY GAUGE
 - 21. EXTENSION ARM
 - 22. BATTERY CHARGER
 - 23. LIFT BAR

7. OPERATION

The operator must determine whether the lifter is capable of performing each intended task, in accordance with the SPECIFICATIONS and INTENDED USE sections of this INSTRUCTIONS manual. In addition, all of the following preparations must be completed prior to lifting any load.

Taking Safety Precautions

- The operator must be trained in all relevant industry and regulatory standards for the operation of the vacuum lifter in its geographical location.
- The operator must read and understand this INSTRUCTIONS manual, including all WARNINGS, before using the lifter.

WARNING:

Always wear appropriate personal protective quipment.

• The operator must wear any personal protective equipment and take any other precautions required to handle the load safely. Consult appropriate trade association guidelines to determine what precautions are necessary for each type of load material.

Always check battery energy efore using lifter.

- Perform all inspections and tests required by the INSPECTION and TESTING SCHEDULES (see MAINTENANCE).
- In addition, if the lifter has been in storage, always conduct a VACUUM TEST before placing it in service (see MAINTENANCE).



CAUTION:

Examine each air filter regularly, and empty when necessary.

• The lifter is equipped with one or more air filters to help protect the vacuum system from contaminants. In order for a filter to function, the operator must empty the filter bowl before enough liquid accumulates to contact any portion of the filter element



Positioning the Lifter on the Load

Make certain that the contact surfaces of the load and all vacuum pads are free of any contaminates that could prevent the pads from sealing against the load.

Center the lifter's rotation axis to within 5 cm of the load center, since off-center loading can cause the load to rotate or tilt unexpectedly and it may also damage the lifter. Make sure that all vacuum pads will fit entirely on the load's contact surface and that they will be loaded evenly while lifting .Then apply the lifter to the load so that all pads are touching the contact surface.

Sealing the Pads against the Load

Firm pressure at the center of the lifter helps the vacuum pads begin to seal against the load. Pull the valve handle outward to the "APPLY" position (power on). This energizes the vacuum pump, causing vacuum to be drawn at the pads immediately. The red low vacuum warning light also turns on and remains illuminated until the lifter attains sufficient vacuum to lift the maximum load weight. The valve handle must remain in the "APPLY" position throughout the entire lift.

WARNING: Keep valve handle in "APPLY" position throughout lift.

Note: If a vacuum pad has been lying against a hard object (as during shipping), it may be slightly distorted.

Although initially it may be difficult to apply the pad to a load, this condition should correct itself with continued use.

Reading the Vacuum Gauge

The vacuum gauge indicates the current vacuum level in the lifter's vacuum system. The green range indicates vacuum levels sufficient for lifting the maximum load weight, where as the red range indicates vacuum levels that are not sufficient for lifting the maximum load weight. The gauge needle should show a sudden surge in vacuum as the vacuum pads seal against the load. If it takes more than 5 seconds for the vacuum level to reach 12 Cm Hg, press on any pad

Vacuum Level on Optimal Surfaces

When the lifter is attached to clean, smooth, nonporous load surfaces, it should be able to maintain a vacuum level in the green range on the vacuum gauge, except when used at high elevations (see SPECIFICATIONS: Operating Elevation). If not, make sure the vacuum switch is adjusted correctly (see MAINTENANCE: VACUUM SWITCH ADJUSTMENT). If the vacuum switch cannot be adjusted to maintain a vacuum of 58 Cm Hg, perform the VACUUM TEST (see MAINTENANCE) to determine whether there is a deficiency in the vacuum generating system.

8. TO APPLY THE PADS TO A LOAD

Vacuum Level on Other Surfaces

When the lifter is attached to contaminated, rough or porous load surfaces, it may not be able to maintain a vacuum level in the green range on the vacuum gauge, due to leakage in the seal between the vacuum pads and the load surface.5 In the case of contamination, thoroughly clean the contact surfaces of the load and the vacuum pads (see MAINTENANCE: VACUUM PAD MAINTENANCE: Cleaning), and reapply the lifter to the load. If the load has rough or porous surfaces, the operator must conduct a test to determine whether the lifter is designed to lift the load, as follows:

- 1. Make sure the lifter's vacuum generating system is functioning correctly
- 2. Apply the vacuum pads to the load as previously directed.

3. After the vacuum pump stops running, disconnect the electrical connector uniting the battery with the vacuum generating system.

Note: After the test is completed, move the valve handle to the "RELEASE" position (power off) before reconnecting the battery.

4. Raise the load a minimal distance, to assure that it is supported by the lifter.

5. Monitor the vacuum gauge while the load is suspended for 5 minutes: The lifter must maintain a minimum vacuum level of 10" Hg [25CmHg] during this time. If not, the load does not possess the characteristics required for using this lifter.

TO LIFT AND MOVE THE LOAD

Positioning the Lifting Bar

WARNING:

- The Lifting bar must be oriented vertically to lift load.
- Never lift the load from a flat position with the lift bar latched parallel to the load. Always disengage the tilt latch (see TO TILT THE LOAD to follow) and raise the lift bar to a vertical orientation before attempting to lift.

Load Capacity and the Warning Light

A lifter's Load Capacity is rated at a vacuum level of 58 Cm Hg (see SPECIFICATIONS). After the lifter has attained this level, the vacuum pump turns off automatically, to conserve battery energy. At the same time, the low vacuum warning light turns off, to indicate that the lifter is ready to lift the maximum load weight.

WARNING:

- Never attempt to lift load while red warning light is illuminated.
- Do not attempt to lift the load while the warning light is illuminated; such an attempt could result in a load release and possible injury to the operator.

Monitoring Vacuum Indicators

The low vacuum warning light and the vacuum gauge must remain completely visible to the operator, so that they can be monitored throughout the entire lift.



8. TO APPLY THE PADS TO A LOAD

WARNING:

- Vacuum indicators must be visible to operator throughout entire lift. If the vacuum system experiences leakage while the lifter is attached to the load, the vacuum pump turns on automatically, as required to maintain sufficient vacuum for lifting the maximum load weight. The low vacuum warning light also turns on and remains illuminated while the pump is running, to signal the reduction in vacuum to the operator.
- If the pump and warning light turn on while you are lifting a load, make sure the vacuum gauge shows a vacuum level of 58 Cm Hg or higher. If not, move away and stay clear of the load until it can be lowered to the ground or a stable support.
- Stay clear of any suspended load while vacuum level is lower than 58 Cm Hg.
- Discontinue lifter use until the cause of the vacuum loss can be determined. If the pump runs at intervals of ten minutes or less while the lifter is attached to clean, smooth, nonporous materials, the leakage is likely to be in the vacuum system. In this event, perform the VACUUM TEST (see MAINTENANCE) and inspect the vacuum pads for damage (see MAINTENANCE: VACUUM PAD MAINTENANCE: Inspection). If the vacuum loss cannot be remedied immediately, perform inspection and maintenance as needed to identify and correct any defi ciency before resuming normal operation of the lifter.

Controlling the Lifter and Load

When the vacuum indicators show that the lifter is ready, use the hoisting equipment to raise the lifter and load as needed to clear any obstacles in their path. Use the control handle to keep the lifter and load in the desired orientation while they are suspended from the crane. Once sufficient clearance is established, the load can be rotated or tilted as desired

In Case of Power Failure

The lifter is equipped with a vacuum reserve tank, designed to maintain vacuum temporarily in case of a failure at the lifter's power source.

WARNING:

Stay clear of any suspended load in the event of a power failure. Although the lifter is designed to support the load for at least 5 minutes without power, this depends on many factors, including the condition of the load and the lifter's vacuum system. If a power failure occurs, keep all personnel clear of the suspended load until it can safely be placed on the ground or a stable support. Correct any deficiency before resuming normal operation of the lifter.

TO ROTATE THE LOAD EDGEWISE

WARNING:

Never disengage both the rotation latch and the tilt latch at the same time.

Controlling the Lifter and Load

- This lifter is not designed for rotation and tilt functions to be used at the same time.

- Disengaging the rotation and tilt latches simultaneously could cause uncontrolled and unpredictable load movement, potentially resulting in load damage or injury to the operator.



WARNING:

- Make sure load is positioned correctly on lifter (see TO APPLY); unbalanced loads may rotate unexpectedly when latch is disengaged.
- Remember that the load is longer in its diagonal dimensions than in its side dimensions. Make sure there is sufficient clearance for the load to rotate without contacting the operator or any nearby objects. Maintain a firm grip on the control handle to keep the load under control at all times.
- Pull the rotation release lever to disengage the rotation latch, and rotate the load to the desired position. To stop the load's motion automatically at each quarter turn, simply let go of the rotation release lever immediately after initiating the rotation, so that the rotation latch engages at the next stop.
- Whenever rotation is not required, keep the rotation latch engaged, to prevent accidental damage to the load and possible injury to the operator.

TO TILT THE LOAD

WARNING:

- Never disengage both the rotation latch and the tilt latch at the same time
- This lifter is not designed for rotation and tilt functions to be used at the same time. Disengaging the rotation and tilt latches simultaneously could cause uncontrolled and unpredictable load movement, potentially resulting in load damage or injury to the operator.
- Make sure load is positioned correctly on lifter unbalanced loads may tilt unexpectedly when latch is disengaged.
- Remember that the load requires more vertical space when tilted to the upright position, as well as more horizontal space when tilted to the flat position. Make sure there is sufficient clearance for the load to tilt without contacting the operator or any nearby objects.



8. TO APPLY THE PADS TO A LOAD

• Maintain a firm grip on the control handle to keep the load under control at all times. If the pad frame is latched in the vertical position, pull the tilt release lever to disengage the tilt latch, and prepare for a slight surge of motion as the load begins to tilt. If load size permits, maintain control with the handle throughout the tilt. For loads with overhang, it may be necessary to release the control handle as the load approaches the flat position. If so, keep the load under control using hand cups or other appropriate means. The pad frame automatically latches in place when it returns to the vertical position.

TO RELEASE THE PADS FROM THE LOAD

WARNING:

- · Load must be fully supported before releasing vacuum pads.
- When the load is at rest and fully supported, pinch the valve release lever against the valve handle, and push the valve handle inward to the "RELEASE" position (power off) until the vacuum pads disengage completely from the load.

AFTER USING THE LIFTER

Leave the valve handle in the "RELEASE" position (power off).

CAUTION:

- Do not set the lifter against any surfaces which could soil or damage the vacuum pads.
- Use the hoisting equipment to gently lower the lifter onto a stable support; then detach the hoisting equipment hook from the lift bail.
- If the lifter is transported to another location, use the original shipping container and secure the lifter so as to protect the vacuum pads and all other components from damage while in transit.

Storing the Lifter

- Use the covers supplied to keep the vacuum pads clean. In accordance with CE Standard EN 13155, the lifter is designed to rest on relatively horizontal surfaces without tipping over. To store the lifter in this way, set the lifter with the pads facing downward on a clean, smooth, flat surface. Then lower the lift bar to a horizontal orientation and place a support under the lift bail.
- Charge the battery completely when placing it in storage and at six-month intervals thereafter. After charging the battery, disconnect the electrical connectors uniting the battery to the battery charger and to the vacuum generating system, in order to minimize power drainage. Preferred temperatures for storing the battery are 0° to 21° Celsius. Higher temperatures require the battery to be charged more frequently. Storage at temperatures above 38° Celsius should be avoided.

Vacuum Switch Function

A vacuum sensor/electrical switch assembly controls the low vacuum warning light and the vacuum pump: The valve handle activates the warning light and the pump, which evacuates the vacuum pads. After the lifter attains a vacuum level sufficient for lifting the maximum load weight (hereafter, "minimum lifting level"), the vacuum switch automatically turns off the pump and the warning light. In order to maintain sufficient vacuum, the vacuum switch automatically turns on the pump and warning light again before vacuum decreases to a level that is lower than the minimum lifting level.

Conditions Requiring Readjustment

At the factory, the vacuum switch is set to maintain the minimum vacuum level specified for the Load Capacity (see SPECIFICATIONS). However, shipping vibrations or shocks, normal wear, or other conditions may adversely affect this adjustment. Periodically verify the switch adjustment by comparing how the vacuum pump and the low vacuum warning light function in relation to the vacuum level registered on the vacuum gauge, as follows:

- If the pump and the warning light do not turn off after vacuum increases to a level much higher than the minimum lifting level, the vacuum switch may be adjusted to maintain a lower vacuum level. Otherwise, the pump would continue to run unnecessarily after the lifter has attained sufficient vacuum to lift the maximum load weight.
- If the pump and the warning light do not turn on before vacuum decreases to a level lower than the minimum lifting level, the vacuum switch must be adjusted to maintain a higher vacuum level. Otherwise, the lifter would not maintain sufficient vacuum to lift the maximum load weight.

Adjustment Procedure

WARNING: Lifting capacity decreases whenever vacuum switch is adjusted to maintain lower vacuum level.

- 1) Using a 1/4" open-end wrench (as provided), turn the adjustment screw about 1/6th turn at a time (approximately one flat of the screw head).
- To maintain a lower vacuum level, turn the screw clockwise (when viewing vacuum switch from end with electrical connectors).
- To maintain a higher vacuum level, turn the screw counter-clockwise (when viewing vacuum switch from end with electrical connectors).
- 2) Recheck the vacuum switch setting following each 1/6th turn of the adjustment screw. In order to test the adjustment accurately, release the vacuum pads completely before reapplying them to a test surface.
 - Electrical Connectors
 To Maintain Higher Vacuum
 - Adjustment Screw
- To Maintain Lower Vacuum

When the vacuum switch is adjusted correctly, the vacuum pump turns off only after vacuum increases to a level higher than the minimum lifting level; and the pump turns on again before vacuum decreases to a level lower than the minimum lifting level.

DC POWERED VACUUM GLASS LIFTER ARGL-500



10. INSPECTIONS & MAINTENANCE

10.1 INSPECTIONS

Inspect the ARGL-500 regularly to ensure that it does not exhibit the following faults:

- The battery is disconnected before servicing the lifter.
- Contamination or debris on the vacuum pads system and the
- load surface.
- Visual damage of the device's structure and vacuum system.
- Clean the air filter.
- Listen for unusual vibrations or noise while operating the lifter.
- Cracks, corrosion, cuts, or any deficiency affecting the entire lifter.
- The alarm system for warning in dangerous situations.
- The vacuum gauges for an operating situation.
- · Damaged edges of the lifter while sealing.
- Repair all faults before using the device.

10.2 MAINTENANCE

A good maintenance planning will bring benefits for your lifter. It not only increases safety and using values, but also reduces maintenance cost:

- Perform simple maintenance tasks for the lifter such as repairing, replacing grease so that the lifter runs smoothly.
- Check the rubber pads to ensure that they are free from dirt and damages
- You must clean the air filter to eliminate dust or contamination.
- Release the water in the vacuum tank is located on the bottom by screwing the air outlet valve.
- If the lifter is used for less than one day in a two-week period, you should perform an inspection and maintenance to ensure that the lifter is safe and does not have any faults.
- The lifter may experience normal wear and tear and ageing. You should replace any reduced quality parts with new original parts.
- The lifter and hoisting accessories must be stored in a place where they are protected against weather conditions and aggressive substances.

CE - DECLARATION OF CONFORMITY

We declare that the product is in conformity with the following standard: The Machinery Directive 2006/42/EC.

Note: It is the responsibility of the user to adapt to state or local laws. The end-user is responsible to use the equipment safely in a manner that it is designed for and within the rated capacity of the unit.

11. WARRANTY

11.1

After receiving the product, the buyer should check, based on the spare parts list and spare drawings attached to the product, that the spare parts have not been damaged or lost during shipment. Any damage or losses must be officially reported to Aardwolf Industries LLC within eight days from the date of purchase.

11.2

This lifter is granted a 12-month warranty based on Aardwolf Industries LLC's warranty policy from the date of purchase.

11.3

The warranty coverage is not applicable:

- Whenever the lifter is handled incorrectly during maneuvering
- Whenever the operator fails to comply with the instructions in this booklet
- · Whenever the lifter's maximum permissible capacity is exceeded
- Whenever the specifications for glass thickness are not followed
- Whenever the damage is due to inadequate maintenance and inspections
- Whenever the damage is due to improper storage
- Whenever repairs were performed by the user without our permission
- Whenever unofficial spare parts were used.

11.4

Aardwolf Industries LLC's warranty does not cover the incorrect assembly or misuse of the lifter, the lack of maintenance and repair of the lifter as scheduled by the manufacturer, operated by incompetent or unauthorized operators, or unofficial spare parts being used or installed.







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