

**ANTHONY**  
LIFTGATES, INC.®

**AST • AST-L •  
AST-PLUS**



## OPERATION MANUAL

### MODELS

AST-1500

AST-2000

AST-2500

AST-3000

AST-3500

AST-L-1800

AST-L-2500

AST-PLUS-2500

AST-PLUS-3000



For Serial Number XXXXXX and Greater

**QUALITY, RELIABILITY, CUSTOMER SERVICE**

**MADE IN THE USA** 

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# 1. General Information

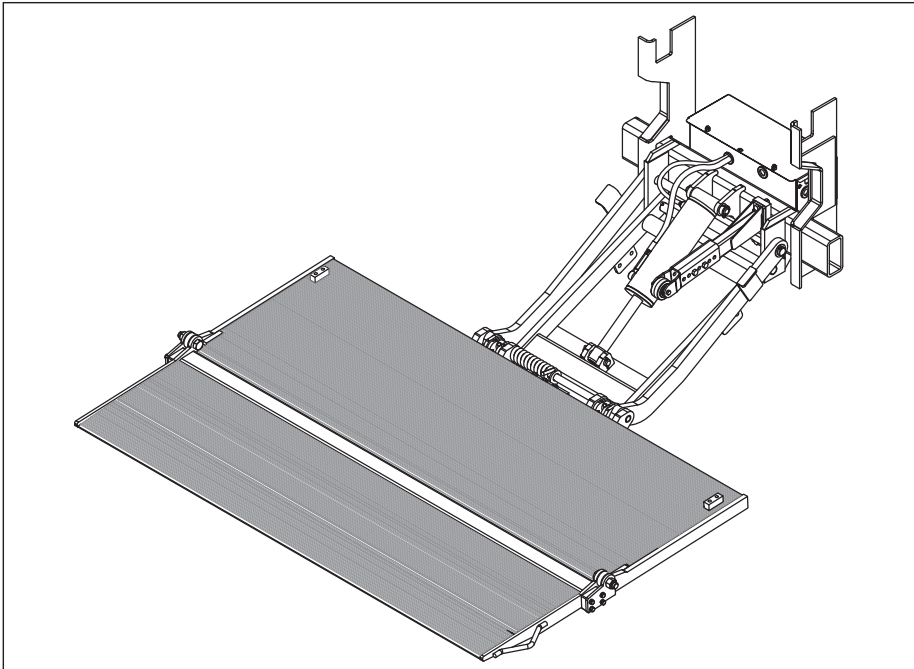
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## 1.1 Introduction

Congratulations on selecting an Anthony Liftgates TuckUnder™ liftgate.

All Anthony tuckunder model liftgates are factory assembled, energized, and tested to ensure the highest quality performance standards. AST, AST-L, and AST-PLUS liftgates ship completely assembled for fast, clean, and easy installation.

To ensure your liftgate will perform to your expectations, we have provided this Operation Manual, which is designed to provide you with the necessary operation instructions and safety precautions for the operation of the AST, AST-L, or AST-PLUS TuckUnder™ liftgates.





Read, Understand, and Follow Instructions

**To avoid personal injury or death, carefully read and understand all instructions pertaining to this Anthony Liftgate. Do not attempt to operate this product without fully understanding all of the instructions and safety recommendations.**

**Do not operate a truck or the liftgate unless you read and understand the instructions and warnings in this Operation Manual and other related manuals for the truck.**

**If any doubt or question arises about the correct or safe method of performing anything found in this manual, contact your Anthony Liftgates' dealer. Proper care is your responsibility.**

### **SAFETY INSTRUCTIONS**

A platform restraining system may be designed into your particular liftgate to keep certain types of cargo from rolling off of the liftgate platform. These restraining devices may include a cart stop, retention ramp, fencing, straps, etc. These devices should always be used for their designed function, which is to prevent the possibility of severe personal injury or death due to cargo shifting and/or falling from the liftgate platform.

### **SAFETY INSTRUCTIONS**

All users of this liftgate must be at least 18 years old and have read and understood all operation instructions and safety decals before use.



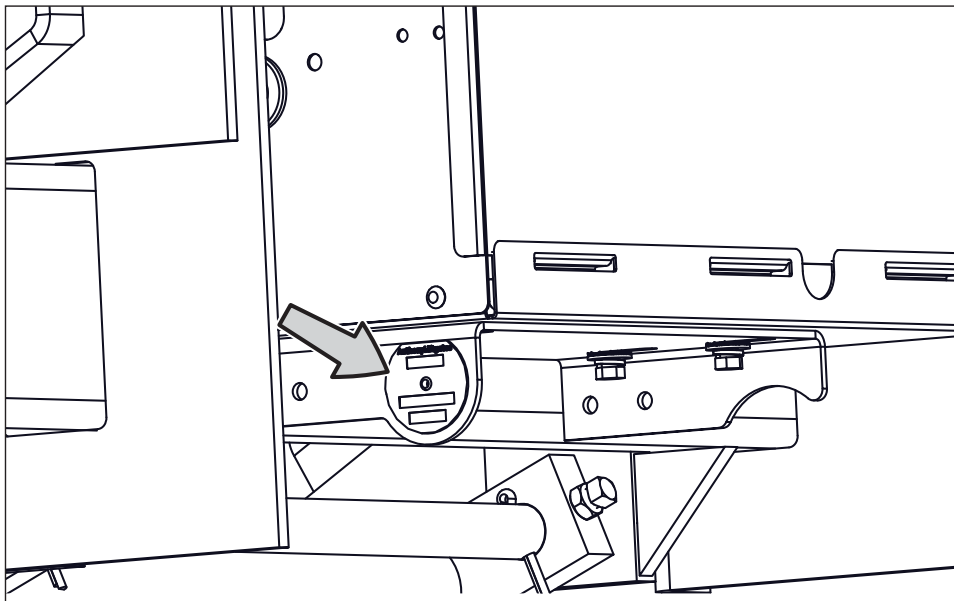
Crush Hazard

**Unsecured loads, when moved on the liftgate, can shift or fall. To prevent personal injury or death, make sure loads are securely fastened to the liftgate or restrained by cart stops, a retention ramp, or fencing.**

## 1.2 Registration

To register your liftgate go to **www.anthonyliftgates.com**, Customer Service, and then Product Registration.

Before calling your authorized dealer with questions or other product information requests, have the serial number, model number, and lift capacity of your liftgate available. This information is stamped into the identification plate on the side of the power unit box and will help us verify your warranty information and your specific liftgate.



Model and Serial Number Identification Plate.

Record the serial number, model number, date of installation, and load capacity for easy reference when contacting your authorized dealer with questions.

Serial Number Information	
Serial No.	
Model No.	
Date of Installation	
Lift Capacity	

## 1.3 Customer Service and Parts

For service or ordering replacement parts, contact an authorized dealer by going to **www.anthonyliftgates.com** and selecting the FIND A DEALER tab. Enter your zip code to find the nearest authorized service location.

## 1.4 Safety Signs (Decals)

### **SAFETY INSTRUCTIONS**



**To prevent personal injury from not being aware of safety recommendations, make sure all decals are attached to the liftgate and/or truck and are legible at all times!**

Safety signs (decals) provide a vital role in helping reduce injury and/or death. To ensure the greatest level of safety, all decals must be attached to the liftgate and be legible at all times. Remember, it is the users' responsibility to maintain these decals. For decal placement, or a complete part number list and illustration of the decals used on the AST, AST-L, and AST-PLUS tuckunder liftgate, refer to "5. Replacement Safety Signs (Decals)" on page 14 in this manual.

## 1.5 Warranty

For a detailed copy of the Warranty Statement, refer to "7. Limited Warranty" on page 28.

1. Unauthorized modifications or use of the liftgate may cause it to improperly operate or cause other unforeseen problems or dangers. If any deviation is deemed necessary, written permission must first be obtained from Anthony Liftgates.
2. All decals must be attached and legible or all warranties are void.

## 2. Safety Section

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### 2.1 Safety is Your Responsibility



It is the responsibility of the user to understand and properly use this liftgate. Be aware of the inherent dangers in the use of this product.

Read and understand all Warnings, Cautions, Notices, and Safety Instructions in this manual, on the liftgate, or on the truck.

Accidents can often be avoided by being alert and recognizing potentially hazardous situations. Anyone operating the liftgate must have the necessary training, skills, and tools required to perform these functions properly and safely. The safety information in this manual serves as a basic guide in an attempt to prevent injury or even death.

Anthony Liftgates cannot anticipate every possible circumstance that might involve a potential hazard. The identification of hazardous situations in this manual and on the product itself are, therefore, not all-inclusive. If procedures, work methods, or operating techniques that are not specifically mentioned by Anthony Liftgates are used, you must satisfy yourself that they are safe for you and for bystanders. Make sure the liftgate or truck it is mounted onto will not be damaged or made unsafe by any operating method you choose.

DO NOT proceed if any doubt arises about the correct or safe method of performing anything found in this or other related equipment manuals. If in doubt, seek out expert assistance from a qualified person before continuing.

### 2.2 Safety Signal Words



Personal injury hazards are identified by the “Safety Alert Symbol” and followed by a signal word such as WARNING or CAUTION to indicate the severity of the hazard.



This safety alert icon surrounds an image showing a specific type of injury which should be avoided.



**Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.**



**Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.**



*Indicates that equipment or property damage can result if instructions are not followed.*



**Indicates specific safety-related instructions or procedures.**

**Note:** Contains additional information important to a procedure.

### 3. Operation Section

#### 3.1 General Operating Safety Instructions



Do not use this liftgate for any other purpose than its intended use of loading and unloading cargo from the bed of a truck.



Do not overload the platform. The maximum rated capacity is based on an evenly distributed load on the platform's flat surface.



**Crush Hazard**

- Do not stand in the platform's work area while operating the liftgate. Serious injury or death could result if the load shifts, falls, or is unstable on the platform.
- Do not go under the liftgate while it is in a raised position. Accidental lowering could cause serious crushing injuries.
- Do not stand under or place any object under the liftgate work area.



To prevent personal injury, immediately clean up any spilled fluid on the liftgate platform. To avoid tripping, do not leave anything laying on the platform or around the work area.

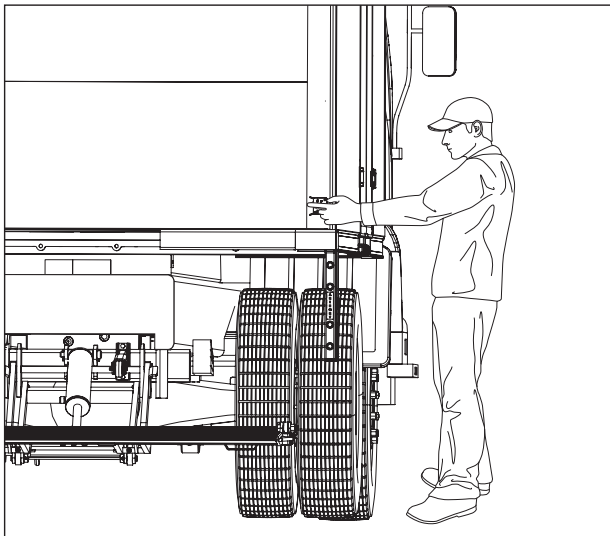


Do not allow children to play on/around or operate the liftgate.



Anthony Liftgates recommends not riding the liftgate; however, if the operation requires it, make sure

your footing is stable before raising or lowering the platform. Always stand away from the edge. When on the ground, always stand clear of the liftgate when it is operating.







Always use/set the truck's parking brake and remove the ignition key before operating the liftgate. Failure to follow this recommendation can result in injury.



Do not place hands or feet in pinch points, between the platform and the platform extension, or under the edge of the liftgate.

## SAFETY INSTRUCTIONS



Do not allow the liftgate to be used by persons unfamiliar with its operation.



Visually inspect the liftgate before use to make sure all parts are in good working condition and operates freely. Have any damaged parts replaced immediately.



To prevent possible injuries due to improper operation, make sure all decals are attached to the liftgate and/or truck and are legible at all times.



Always use three points of contact during ingress or egress of the truck or platform.



Make sure the area in which the platform will open and close is clear before opening, closing, raising, or lowering the platform.



Always place the load as close to the center of the platform as possible and as close to the truck as possible.



Only operate the liftgate with the switch controls mounted on the truck body unless an optional hand-held remote is installed.



Do not operate lift trucks on or over any part of the platform.

## 3.2 Operating Instructions

Many liftgates are installed with a cut-off solenoid or a cut-off switch to prevent accidental or unauthorized use of the liftgate by disconnecting power from the battery to the power unit. If not installed, Anthony Liftgates strongly recommends the installation of one of these devices.

1. Raise and slide the latch pin toward the curbside of the liftgate.

### **NOTICE**

*Do not force the pin to open. In some cases, the liftgate can settle down against the pin causing it to bind or be very difficult to slide. If the pin does not slide easily, slightly raise the liftgate to relieve pressure on the latch pin.*

2. Press and hold the control switch in the DOWN position until the folded platform rests on ground.



### **CAUTION**

**Always stand on curbside of truck when raising or lowering platform with control switch.**

3. Manually unfold main platform.



### **CAUTION**

**Always stand on curbside of truck when unfolding platform.**

4. Manually unfold flipover section.



### **CAUTION**

**Always stand on curbside of truck when unfolding flipover section.**

5. Raise and lower platform using UP and DOWN functions of control switch.

### **SAFETY INSTRUCTIONS**

**Do not bounce the platform by pushing and releasing the control switch abruptly.**

### **NOTICE**

*Do not allow the motor/pump to run after the liftgate is closed, or in the up position.*

6. Reverse steps to fold and store platform. Make sure platform is locked in storage position with latch pin after use.

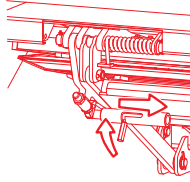
### **SAFETY INSTRUCTIONS**

**When placing the liftgate in the storage position (folding), slowly fold the platform until it contacts the wheel arm assembly. Lock the liftgate into the storage position with the latch pin whenever the liftgate is not in use.**

## ANTHONY TUCKUNDER LIFTGATES OPERATING INSTRUCTIONS

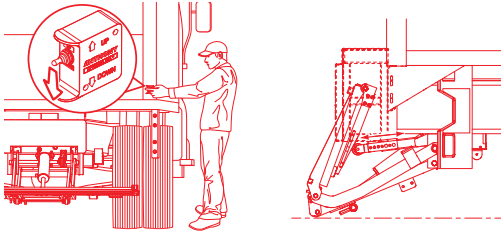
1. Raise (twist) latch pin handle upwards and then slide pin sideways to release.

Do not force the latch. Liftgate may need to be slightly raised or lowered to release pressure on latch pin.



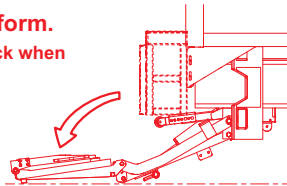
2. Press control switch DOWN until folded platform rests on ground.

Always stand on curbside of truck when raising or lowering platform with control switch.



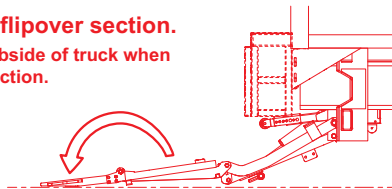
3. Manually unfold main platform.

Always stand on curbside of truck when unfolding platform.

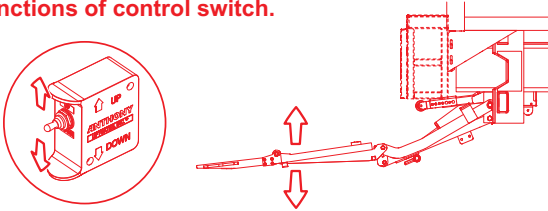


4. Manually unfold flipover section.

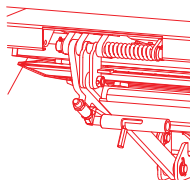
Always stand on curbside of truck when unfolding flipover section.



5. Raise and lower platform using UP and DOWN functions of control switch.



6. Reverse steps to fold and store platform. Make sure platform is locked in storage position with latch pin after use.



ATU-423

## 4. Routine Service Items

### 4.1 Adding Fluid to Pump Reservoir

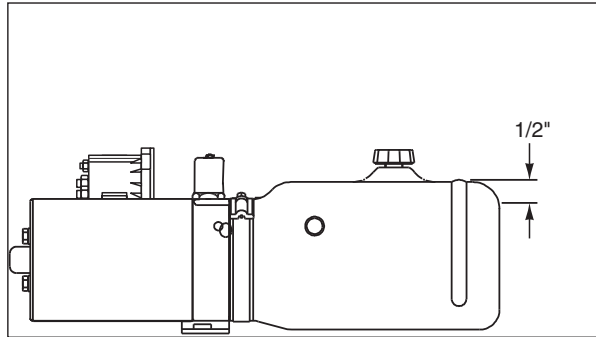
1. Check oil level.

#### Gravity Down Models

With the platform on the ground, the oil level should be within 1/2 inch of the top of the reservoir.

#### Power Down Models

With the platform fully raised, the oil level should be within 1/2 inch of the top of the reservoir.



2. Add oil to fill the reservoir to the appropriate fill level.

### NOTICE

*To prevent damage to the pump, use only Dexron VI, Dexron III, or Hyken Glacial Blue hydraulic fluid in the power unit reservoir. For cold weather operation use*

*Hyken Glacial Blue.*

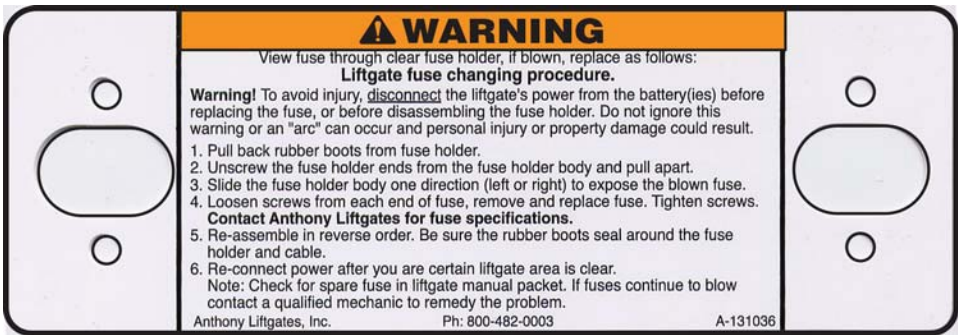
*If an emergency situation occurs, any anti-wear hydraulic fluid can be used, but the system should be flushed and the fluid changed as soon as reasonably possible. Hydraulic fluids should not be mixed due to possible compatibility problems.*

*The recommended fluids are compatible and may be mixed; however, the cold weather operating characteristics of the Hyken Glacial Blue will be adversely affected.*

*DO NOT thin hydraulic fluid with brake fluid, and DO NOT use brake fluid in place of hydraulic fluid.*

3. Change the fluid if it is contaminated or dirty, or every 12 to 24 months, depending on use.

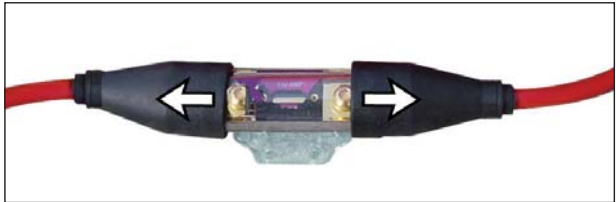
## 4.2 Replacing the Fuse



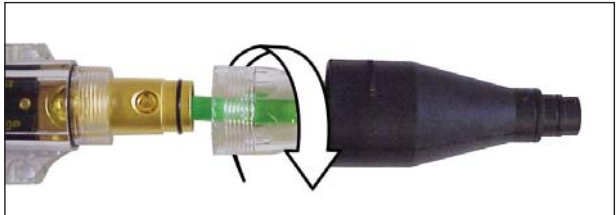
### Electrical Arc Hazard

**An electric arc can cause personal injury or damage to the trucks electronics. To avoid personal injury or damage, disconnect the power cable from the vehicle battery or batteries before disassembling the fuse holder to replace the fuse.**

1. Slide the rubber boots away from the fuse holder.



2. Unscrew the fuse holder ends from the fuse holder body and pull it apart.

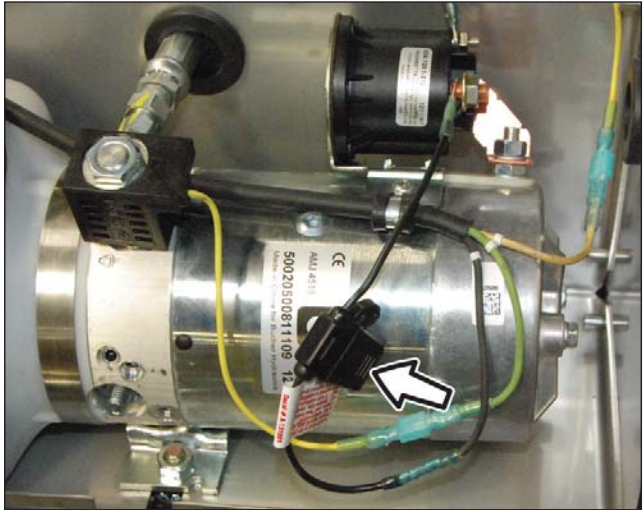


3. Slide the fuse holder body one direction (left or right) to expose the damaged fuse.
4. Loosen the screws from each end of the fuse, remove, and replace the fuse. Retighten the screws.
5. Reassemble the fuse holder in reverse order. Be sure the rubber boots are sealed around the fuse holder and power cable.
6. Reconnect the power after you are certain the liftgate area is clear.

**Note:** If the fuse continues to blow, contact your authorized dealer.

### 4.3 Checking Control Switch Fuse

If the control switch is not operating the liftgate, check the in-line fuse located on the control cable inside the power unit box.



## 5. Replacement Safety Signs (Decals)

### 5.1 Placement of Decals

#### **SAFETY INSTRUCTIONS**

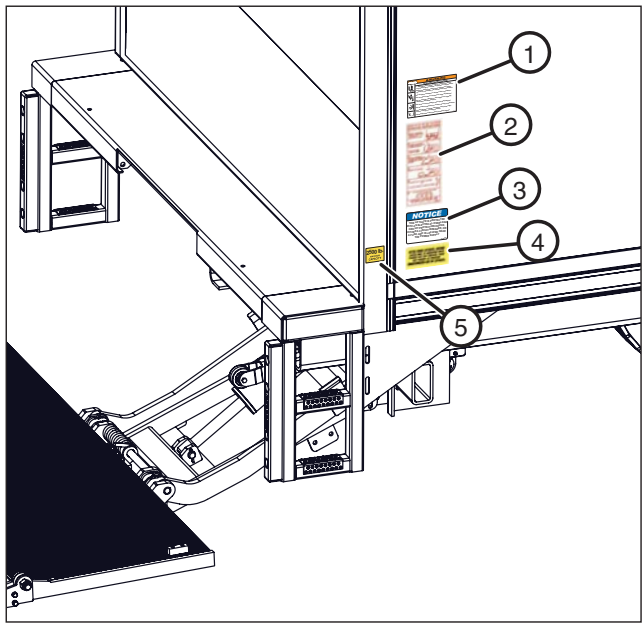


To prevent possible injuries due to improper operation, make sure all safety signs (decals) are properly placed and attached to the liftgate and/or truck and are legible at all times.

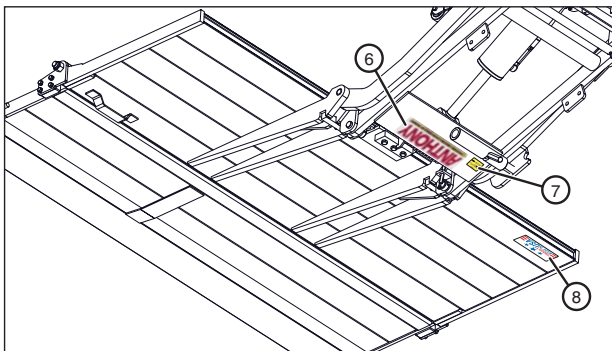
Safety signs or decals provide a vital role in helping to reduce injuries and/or death. To ensure the greatest level of safety, all decals must be properly placed and legible at all times. Remember, it is the users' responsibility to maintain these decals.

For replacement decals contact an authorized dealer by going to **[www.anthonyliftgates.com](http://www.anthonyliftgates.com)** and selecting the FIND A DEALER tab. Enter your zip code to find the nearest authorized service location.

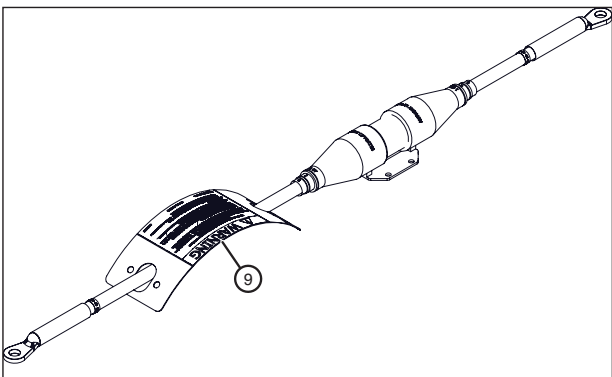
1. Warning Personal Injury Hazard Decal
2. Operating Instructions Decal
3. Electrical Overload Circuit Protection Decal
4. After Using Liftgate, Secure Latch Decal
5. Maximum Capacity Decal



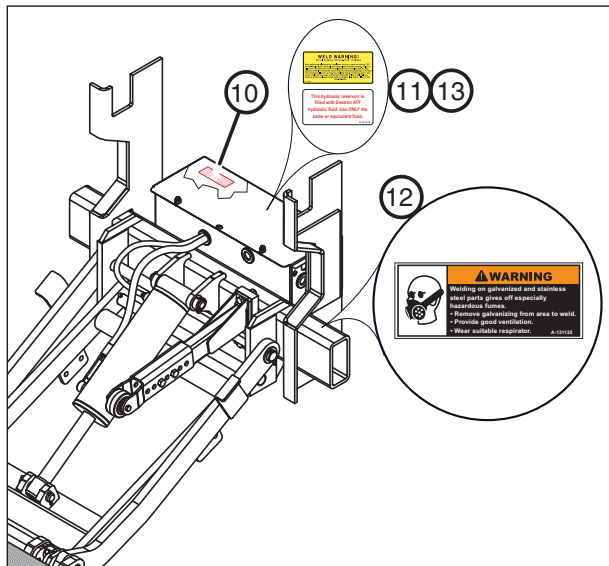
6. Anthony Hydraulic Liftgate Label Decal
7. Disengage Latch Before Using Liftgate
8. Flag — Made in the USA



9. Liftgate Fuse Changing Procedure



## 10. Liftgate Fuse Changing Procedure (inside pump box)



Item	Part Number	Description
1	A-131115	Warning, Personal Injury
2	ATU-423	Operating Instructions
3	A-150238	Notice - Protected With Electrical Overload Circuit Breaker
4	ATU-141	After Using Liftgate
5	A-131015 ATU-175 A-131020 ATU-174 ATU-147 ATU-177	1500 Lb. Maximum Capacity 1800 Lb. Maximum Capacity 2000 Lb. Maximum Capacity 2500 Lb. Maximum Capacity 3000 Lb. Maximum Capacity 3500 Lb. Maximum Capacity
6	A-131034	Anthony Label
7	A-131017	Note - Disengage Latch
8	A-150601	Made In The USA
9	A-131036	Warning, 200 Amp Fuse Changing Procedure (attached to power cable)
10	A-131001	10 Amp Fuse Changing Procedure (attached to control wiring in pump box)
11	A-131134	Hydraulic Fluid
12	A-131125	Warning, Galvanized Fumes Hazard
13	A-131028	Weld Warning



<b>ANTHONY</b> LIFTGATES, INC.™	 <b>WARNING</b>
	<b>PERSONAL INJURY HAZARD</b>
	<p><b>Operation may require user to stand on platform. To prevent injury or death of operators or bystanders:</b></p> <ul style="list-style-type: none"> <li>• Read and follow operator/owner manual for safety, operation, inspection, and maintenance instructions.</li> <li>• Do not place unstable or unsafe loads on platform.</li> <li>• Do not allow loads to extend over edge of platform.</li> <li>• Do not exceed capacity or use liftgate for anything other than intended purpose.</li> </ul>
	<ul style="list-style-type: none"> <li>• Be aware of surroundings when operating liftgate.</li> <li>• Do not allow body parts to contact moving components.</li> <li>• Ensure footing is stable and stand away from edge before raising or lowering platform.</li> </ul>
	<ul style="list-style-type: none"> <li>• Owner/operators must properly maintain liftgate.</li> </ul>

A-131115

**ADVERTENCIA  
PELIGRO DE LESIÓN PERSONAL**

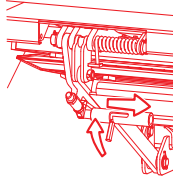
La operación puede requerir que el usuario se pare sobre una plataforma. Para evitar lesiones o la muerte de operadores o transeúntes:

- Lea y siga las instrucciones del manual del operador o del propietario en cuanto a seguridad, operación, inspección y mantenimiento.
- No coloque cargas inestables o poco seguras sobre la plataforma.
- No permita que las cargas sobresalgan por el borde de la plataforma.
- No supere la capacidad máxima ni utilice el montacargas para ninguna otra cosa que no sea el propósito previsto.
- Preste atención a los alrededores cuando utilice el montacargas.
- Tenga cuidado de que ninguna parte del cuerpo esté en contacto con los componentes que están en movimiento.
- Asegúrese de estar sobre una superficie estable y aléjese de los bordes mientras la plataforma está subiendo o bajando.
- El debido mantenimiento del montacargas corre por cuenta del propietario o los operadores.

## ANTHONY TUCKUNDER LIFTGATES OPERATING INSTRUCTIONS

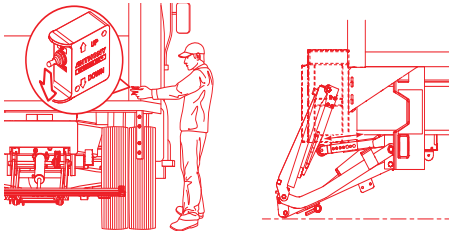
1. Raise (twist) latch pin handle upwards and then slide pin sideways to release.

Do not force the latch. Liftgate may need to be slightly raised or lowered to release pressure on latch pin.



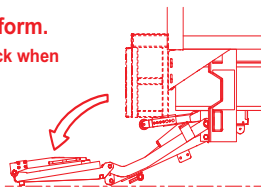
2. Press control switch DOWN until folded platform rests on ground.

Always stand on curbside of truck when raising or lowering platform with control switch.



3. Manually unfold main platform.

Always stand on curbside of truck when unfolding platform.

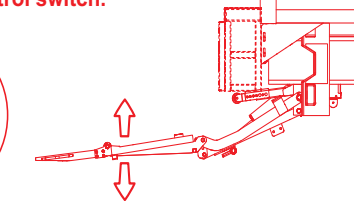
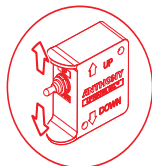


4. Manually unfold flipover section.

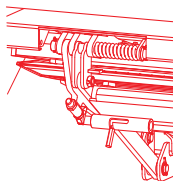
Always stand on curbside of truck when unfolding flipover section.



5. Raise and lower platform using UP and DOWN functions of control switch.



6. Reverse steps to fold and store platform. Make sure platform is locked in storage position with latch pin after use.



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## INSTRUCCIONES DE MANEJO

1. DESASEGURE EL ELEVADOR GIRANDO Y TIRANDO DEL PASADOR EN LA DIRECCION DE LA FLECHA.

2. BAJE LA PLATAFORMA EMPUJANDO EL CONTROL HACIA LA POSICION "DOWN".

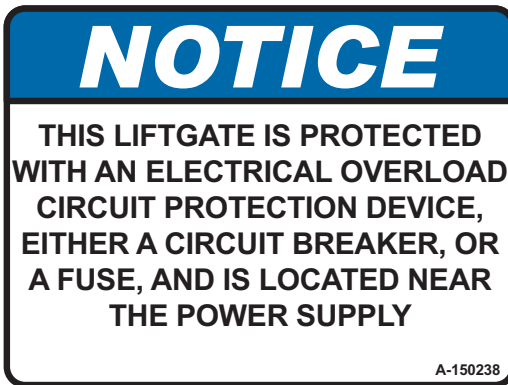
La plataforma empezará a abrirse a medida que baja.

3. DESDOBLE LA PLATAFORMA TIRANDO DE LA MANIJA HACIA AFUERA Y HACIA EL PISO.

4. DESDOBLE LA SECCION PLEGADA "FLIP"

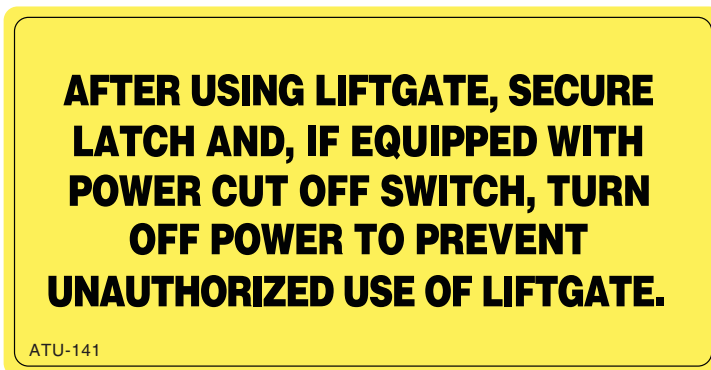
5. MANTENGA EL CONTROL EN "UP" PARA LEVANTAR LA PLATAFORMA -O- "DOWN" PARA BAJARLA

6. PARA GUARDAR LA UNIDAD DESPUES DE USARLA, BAJELA AL PISO E INVIERTA LOS PASOS



## AVISO

ESTE MONTACARGAS CUENTA CON UN DISPOSITIVO QUE PROTEGE EL CIRCUITO CONTRA LAS SOBRECARGAS ELÉCTRICAS, YA SEA UN DISYUNTOR O UN FUSIL, UBICADO CERCA DE LA FUENTE DE ALIMENTACIÓN.



DESPUÉS DE UTILIZAR EL PANEL POSTERIOR, FIGE EL PASADOR, Y SI ESTÁ PROVISTO DE UN INTERRUPTOR DE CIERRE DE ALIMENTACIÓN, APAGUE LA POTENCIA PARA EVITAR EL USO NO AUTORIZADO DEL PANEL POSTERIOR



**CAPACIDAD MÁXIMA**



**Make sure the proper “MAXIMUM CAPACITY” decal is placed on the truck for the appropriate lifting**

**capacity of the liftgate being installed. Do not put a higher rated decal on a liftgate with a lower capacity; this could result in liftgate damage or possibly personal injury.**



**PRECAUCIÓN**  
**BLOQUEE EL SEGURO MIENTRAS ESTÉ EN TRÁNSITO**

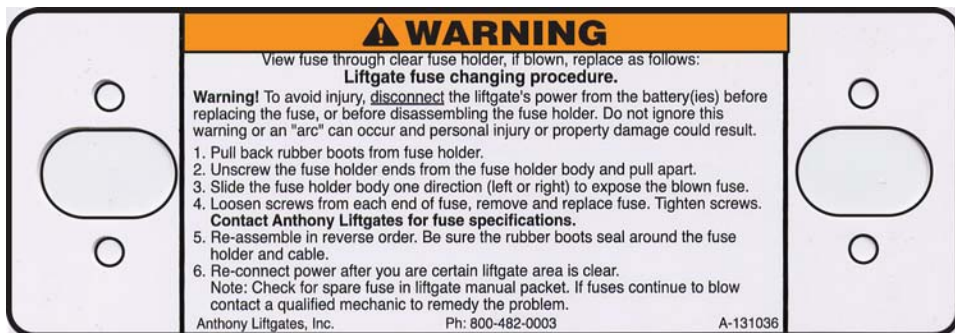


**Nota:**

**Desenganche el  
"pasador" antes de  
intentar utilizar el panel  
posterior.**

**Enganche el "pasador"  
después de utilizar el  
panel posterior.**





Observe el fusible a través del portafusible transparente; si está quemado, cámbielo de la manera siguiente:

Procedimiento para cambiar el fusible de la compuerta elevadora.

**¡Advertencia!** Para evitar lesiones, **desconecte** la alimentación de la(s) batería(s) de la compuerta elevadora antes de cambiar el fusible, o antes de desarmar el portafusible. No pase por alto esta advertencia ya que puede formarse un arco eléctrico y causar lesiones corporales o daño al equipo.

1. Tire de las fundas de caucho del portafusible hacia atrás.
2. Destornille los extremos del portafusible del cuerpo del mismo y sepárelo.
3. Deslice el cuerpo del portafusible en un sentido (a la izquierda o derecha) para dejar al descubierto el fusible quemado.
4. Afloje el tornillo de cada extremo del fusible, retire y reemplace el fusible. Apriete los tornillos.
5. Vuelva a armar en orden inverso. Verifique que las fundas de caucho sellen bien alrededor del portafusible y cable.
6. Conecte la alimentación después de comprobar que el área de la compuerta elevadora está despejada.

**Nota:** Busque el fusible de repuesto en el paquete del manual de la compuerta elevadora. Si los fusibles siguen quemándose, comuníquese con un mecánico competente para que solucione el problem.

## 10 — A-131001 (attached to control cable)

10 AMP FUSE & HOLDER  
Protects against dead shorts  
in this "control circuit".  
If blown, pull "fuse holder  
cap", replace fuse, replace  
"cap". If fuse continues to  
blow, contact a qualified  
mechanic, "control circuit"  
may be damaged.

A-131001

10 AMP FUSE & HOLDER  
Protects against dead shorts  
in this "control circuit".  
If blown, pull "fuse holder  
cap", replace fuse, replace  
"cap". If fuse continues to  
blow, contact a qualified  
mechanic, "control circuit"  
may be damaged.

**FUSIBLE DE 10 AMPERIOS Y SOPORTE - Protege contra cortocircuitos francos en este "circuito de control". Si el fusible se quemó, quite la "tapa del soporte del fusible", cambie el fusible y vuelva a colocar la "tapa". Si el fusible continúa quemándose, comuníquese con un mecánico calificado, dado que el "circuito de control" podría estar dañado.**

## 11 — A-131134

**This hydraulic reservoir is  
filled with Dextron ATF  
hydraulic fluid. Use ONLY the  
same or equivalent fluid.**

A-131134

**El depósito  
hidráulico está  
lleno con líquido  
hidráulico  
Dextron ATF. Use  
ÚNICAMENTE el  
mismo líquido o uno  
equivalente..**

## 12 — 12 A-131125 (attached only to galvanized liftgates)

	<b>⚠ WARNING</b>
	<p>Welding on galvanized and stainless steel parts gives off especially hazardous fumes.</p> <ul style="list-style-type: none"><li>• Remove galvanizing from area to weld.</li><li>• Provide good ventilation.</li><li>• Wear suitable respirator.</li></ul> <p>A-131125</p>

### ADVERTENCIA

**La soldadura de piezas de acero inoxidable y galvanizado libera vapores especialmente peligrosos.**

- Quite el galvanizado del área que va a soldar.
- Trabaje en un área bien ventilada.
- Use un respirador adecuado.

## **WELD WARNING!**

**For all Anthony "Service-Free" Liftgates**

When performing welding during installation, service, or repair on Anthony "SF" Service-Free liftgates, the actual part being welded must be grounded. Failure to follow this instruction can cause the welding ground to travel through the high pressure hydraulic hose as the source of ground, thus causing damage to the hose from the powerful electric current. The resulting damage to the hose may or may not be visible and can cause unexpected catastrophic failure of the lift. If you have any questions, please contact Anthony Liftgates, Inc., Pontiac, Illinois, USA (800-482-0003).

A-131028

## **¡ADVERTENCIA ANTES DE SOLDAR!**

**PARA TODOS LOS ELEVADORES ANTHONY "SERVICE-FREE"**

Cuando se tenga que soldar durante instalación, servicio o reparación de un elevador Anthony "SF" Service-Free, la pieza que se está soldando debe estar a tierra. El no seguir esta instrucción causará que la tierra de la máquina soldadora viaje a través de la manguera hidráulica de alta presión hasta la fuente de tierra. La intensa corriente eléctrica dañará la manguera. El daño resultante puede ser visible o invisible, y puede causar una inesperada falla catastrófica del elevador. Si usted tiene alguna pregunta al respecto, por favor contacte Anthony Liftgates, Inc., Pontiac, Illinois, USA. (800-482-0003)



## 6. Troubleshooting

Troubleshooting Chart	
<b>Motor does not run when control switch is activated.</b>	
<sup>1</sup> (If the problem cannot be quickly and easily resolved by the operator, the liftgate should be taken to an authorized dealer for repair).	
Possible Causes	Possible Solution
If installed, cab cut-off switch is OFF.	Place switch to ON position. Note <sup>1</sup>
If installed, power cut-off solenoid is switched OFF or is defective.	Place switch to ON position. Note <sup>1</sup>
Truck battery is dead.	Check for loose or corroded battery connections and make sure battery is fully charged. Replace or recharge battery.
In-line circuit protection fuse in main wiring cable from truck battery is blown.	Replace fuse. Note <sup>1</sup> Refer to "4.2 Replacing the Fuse" on page 13.
10 Amp fuse for control box switch in power unit box is blown.	Replace fuse. Note <sup>1</sup> Refer to "4.3 Checking Control Switch Fuse" on page 14.
Motor start solenoid is bad.	Note <sup>1</sup>
Battery cable is damaged.	Note <sup>1</sup>
Motor is not working.	Note <sup>1</sup>
<b>Motor runs, but liftgate will not open or lower to the ground.</b>	
Latch pin is closed (in transport position).	Slide the latch pin to the open position.
Low oil level in reservoir.	Add oil to the appropriate fill level. Refer to "4.1 Adding Fluid to Pump Reservoir" on page 12.
Other causes which are not able to be fixed by operator: Structural damage. Lowering valve solenoid on pump. Lowering valve cartridge on pump. Flow control valve on cylinder.	Note <sup>1</sup>

Troubleshooting Chart	
<b>Motor runs, but platform will not raise, will not raise rated capacity, or raises but drifts down when control switch is released.</b>	
Load capacity has been exceeded.	Verify load capacity and adjust load weight.
Low fluid level.	Add oil to the appropriate fill level. Refer to "4.1 Adding Fluid to Pump Reservoir" on page 12.
Low Voltage.	Make sure truck battery is fully charged.
Other causes which are not able to be fixed by operator: Structural damage. Lowering valve solenoid on pump. Lowering valve cartridge on pump. Defective piston seals. Defective piston pump. Flow control valve on cylinder.	Note <sup>1</sup>
<b>Latch pin is broken or bent.</b>	
Platform has been lowered without releasing latch pin.	The latch pin is only used to prevent the liftgate from opening due to a pressure leak or pressure bleed-off over an extended period of time. Always release latch before opening liftgate.
<b>Liftgate raises truck when lowered to the ground.</b>	
<sup>1</sup> (If the problem cannot be quickly and easily resolved by the operator, the liftgate should be taken to an authorized dealer for repair).	
Power down system pressure is set too high.	Note <sup>1</sup>
<b>Liftgate will not open.</b>	
Platform operating area is not clear.	Clear platform operating area.
Latch pin will not slide freely to release liftgate.	Activate the "UP" switch and slightly raise the liftgate to the fully stored position. The latch pin should slide freely.
<b>Platform lowers extremely slow.</b>	

Troubleshooting Chart	
Low oil level on power down models.	Add oil to the appropriate fill level. Refer to "4.1 Adding Fluid to Pump Reservoir" on page 12.
Other causes which are not able to be fixed by operator: Structural damage. Improper oil in hydraulic reservoir. Lift arm bushings are worn. Damaged or kinked hydraulic hose. Cylinder rod is scored, pitted, or bent. Faulty flow control valve in cylinder. Faulty lowering valve on pump.	Note <sup>1</sup>
<b>Platform raises partially and stops.</b>	
Load capacity has been exceeded.	Reduce weight of load.
Low Voltage.	Make sure battery is fully charged.
Low pressure.	Add oil to the appropriate fill level. Refer to "4.1 Adding Fluid to Pump Reservoir" on page 12.
Structural damage.	Replace damaged parts.
<b>Platform will not lower.</b> <sup>1</sup> (If the problem cannot be quickly and easily resolved by the operator, the liftgate should be taken to an authorized dealer for repair).	
Platform operating area is not clear.	Clear working area.
Low Voltage.	Make sure battery is fully charged
Structural damage.	Note <sup>1</sup>
Lowering valve.	Note <sup>1</sup>
Hydraulic pump and motor.	Note <sup>1</sup>

## 7. Limited Warranty

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### 7.1 Limited Warranty

#### **AST - 2 yrs/6,000 cycles Mechanical/Electric/Hydraulic**

Thank you for purchasing an Anthony liftgate. We strive to produce the most trouble-free and reliable liftgates in the market. We are sure you will experience years of reliable operation. To further ensure your confidence in Anthony, this warranty will cover your unit for the listed time period or number of cycles (whichever occurs first) on mechanical/structural, electrical, and hydraulic operating parts. This warranty is extended to the original purchaser (user only) and is not transferable. The warranty term begins from the date of shipment from our factory or warehouse.

Anthony Liftgates Inc. will cover all failed components during the warranty period. Labor will be provided under our Flat Rate Warranty Schedule, in effect at the time of the part failure, and includes diagnosis time. Contact Anthony for current reimbursement amounts. For repairs NOT listed on the Flat Rate Warranty Schedule, contact the Anthony Warranty Department for approved reimbursement, prior to performing repairs. Anthony Liftgates Inc. reserves the right of determination of whether a component is defective or has failed. This warranty applies to Anthony liftgates installed, operated, and maintained in accordance with Anthony Liftgates Inc. installation, operation, and maintenance manuals, videos, etc.

Certain Anthony models have published Lifetime Warranties on listed components, as published in current literature. This additional coverage will be detailed on the published operation components, providing the unit has been operated and maintained within the intended usage.

Anthony Liftgates, Inc. will process all claims and determine their eligibility for authorization upon the receipt of the failed part, the identification of the claimant, and the liftgate serial number. All parts must be returned freight prepaid and following the instructions given by the Anthony Warranty Department. Freight collect shipments will not be accepted.

**PLEASE NOTE THAT NO CLAIMS WILL BE PROCESSED WITHOUT THE PART, THE CLAIMANT'S INFORMATION, AND THE LIFTGATE SERIAL NUMBER.**

Claims not submitted within 30 days of repair date will be denied.

**NOTE: ALL CLAIMS MUST BE COMPLETED ON THE ANTHONY LIFTGATES INC. WARRANTY CLAIM FORM.**

This form provides all the necessary information.

Upon approval of the claim, Anthony will, at the direction of the claimant, return a replacement part and labor allowance, or a parts credit based on current distributor net pricing, and the appropriate flat rate labor allowance.

Anthony Liftgates, Inc. is not responsible or liable for loss of time, cost, labor, material, profits, direct or indirect damages caused by failed components, whether due to rights arising under purchase, order, contract of sale or independently thereof, and whether or not such claim is based on contract, tort, or warranty. The sale of products of Anthony Liftgates, Inc. under any other warranty or guarantee express or implied is not authorized. This warranty does not cover misuse, abuse, damage, or product finish, normal wear, maintenance adjustments, careless or negligence of use or maintenance. Modifications to our product are not covered unless prior authorized by Anthony.

Purchased Parts warranty is 1 year from the date of purchase and covers replacement of the part only.

If you require assistance or have questions, please contact Anthony Liftgates, Inc. at 815-842-3383.

**Note:** Most (not all) Anthony liftgate models incorporate our Service-Free feature. Service-Free refers to the fact that these models require no routine or scheduled lubrication of the major pivot points that contain our service-free bushings. Normal repair and maintenance of your liftgate, per our instruction, is necessary for ALL Anthony liftgates.

Anthony Liftgates, Inc.  
1037 W. Howard St. P.O. Box 615  
Pontiac, IL 61764-0615  
PH: 815-842-3383  
FAX: 815-844-3612  
E-Mail: [warrantyclaims@anthonyliftgates.com](mailto:warrantyclaims@anthonyliftgates.com)

## **7.2 Warranty Policy and Procedure**

All warranty claims must be completed on the Anthony Liftgates Warranty Claim Form utilizing the Flat Rate Warranty Schedule. See the current rates as listed for each model. Using this process will allow for quick and accurate credit payment.

Claims will not be processed without the failed part returned (pre-paid) to Anthony Liftgates, and the warranty claim form completed.

**NOTE:** When returning defective parts for warranty consideration, be sure to call ahead for a Return Authorization Number.

If you require further assistance or have questions, please contact the Anthony Liftgates Warranty Department.

[illegible]



**ANTHONY**  
LIFTGATES, INC.®

**AST • AST-L •  
AST-PLUS**



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