

PENBPAC ALLEY-GATOR™

OPERATOR MANUAL



WITTKE

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ALLEY-GATOR™
OPERATOR MANUAL



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Introduction

The purpose of this manual is to introduce operators to the operational procedures for the ALLEY-GATOR™. For information regarding maintenance procedures, refer to the maintenance manual of the ALLEY-GATOR™.

Pre-operating Instructions

It is imperative that you have carefully reviewed this manual prior to operating and/or performing any maintenance to your new ALLEY-GATOR™ Automated Side Loader.

Upon receipt of your new ALLEY-GATOR™, perform a complete lubrication following the lubrication guide shown elsewhere in this manual and on the decal applied to the side of the body. Factory lubrication is adequate for production and transport purposes only. In addition, the return filter element must be replaced after 50 hours of use, again, as per instructions shown elsewhere in this manual.

Warning!

ALLEY-GATOR™ units *must* be operated by only one person.



Mission Statement

Labrie Enviroquip Group is dedicated to provide innovative designs, customized quality equipment and elite customer service.

Vision Statement

The team at Labrie Enviroquip Group will successfully lead the way the world views waste management. We will excel at enhancing our community and protecting the global environment. We are committed to being a profitable company for our customers, shareholders and employees.

NHTSA Warning

Defects found with your ALLEY-GATOR™ Automated Side Loader that are believed to cause injury or death or cause a crash should be immediately reported to the National Highway Traffic Safety Administration.

In addition, these defects should be immediately reported to Labrie Enviroquip Group by notifying our service department.

To contact NHTSA, you may call:

1 (800) 424 9393 *or* 1 (202) 366 0123

Written communications may be directed to:

NHTSA, U.S. Department of Transportation, Washington, D.C. 20590

Additional motor vehicle safety information is available from the above noted toll-free hotline.

To Contact Labrie Plus

In the U.S.

Address: 1981 W. Snell Road
Oshkosh, WI 54904

Toll Free: 1-800-231-2771

Telephone: 1-920-233-2770

General Fax: 1-920-232-2496

Sales Fax: 1-920-232-2498

Parts and warranty: During business hours, 7:00 AM to 7:00 PM Central Standard Time

Technical Support Service: Available 24 hours

In Canada

Address: 175 Route du Pont
St-Nicolas, QC G7A 2T3

Toll Free: 1-877-831-8250

Telephone: 1-418-831-8250

Service Fax: 1-418-831-1673

Parts Fax: 1-418-831-7561

Parts and warranty: During business hours, 8:00 AM to 5:00 PM Eastern Standard Time

Technical Support Service: Available 24 hours

Website: www.labriegroup.com

E-mail (Sales Dept.): sales@labriegroup.com

E-mail (Customer Service): service@labriegroup.com

IMPORTANT: For technical support and parts ordering, the serial number of your vehicle is required. Therefore, Labrie Enviroquip Group recommends to keep record of the information found on the VIN plate, which is located in the cab.



Safety

Safety comes first and Labrie Enviroquip Group is committed to your safety. Ultimately, safety is everyone's responsibility when operating or maintaining your ALLEY-GATOR™ Automated Side Loader. Make it your first priority! Be aware and apply the safety practices and features detailed in this manual.

ALLEY-GATOR™ equipment operators are required to become knowledgeable with the operation procedures as well as the safety precautions of all operating applications. Refer to the pertaining sections of this manual prior to operating your ALLEY-GATOR™ unit.

Maintenance personnel should not perform any maintenance on the equipment if they are not well acquainted with the operations of the equipment as well as all safety precautions related to such operations.

Labrie Enviroquip Group will not accept any responsibility for failures and/or injuries caused by repairs done by the user and/or any persons other than authorized Labrie Enviroquip Group representatives.

Safety Precautions for the Owner

Labrie Enviroquip Group strongly believes that safety is a team effort. With this in mind, we encourage the employer to implement the following guidelines:

- ♦ Provide all employees – both operators and maintenance personnel – with proper safety procedures and training. Ensure that they are provided with the proper vehicle operation training and continually monitor their operational procedures. It is necessary that they have reviewed the ALLEY-GATOR™ Manuals and are familiar with all the warning decals on the vehicle.
- ♦ Provide operators with the necessary route rules and regulations. Instruct operators on awareness to road hazards such as people, obstructions and overhead hazards. Please ensure that all vehicle safety features, such as body safety props, tailgate props and lift locks, are utilized by your personnel when operating or servicing the ALLEY-GATOR™.

- ◆ Provide and inform employees to wear the necessary safety equipment.
- ◆ Ensure that a vehicle and safety equipment inspection is performed daily. Document the inspections, including all maintenance, repair and malfunction items. Keep inspection documents complete and current.

IMPORTANT: Under no circumstances should your ALLEY-GATOR™ be operated if damaged or malfunctioning. Have all repairs performed immediately.

Safety Precautions for the Employee

As an operator or maintenance employee, it is your responsibility to follow these guidelines:

- ◆ Ensure that you have been provided with safe operating and/or maintenance service training and procedures by your employer prior to operating the vehicle or performing maintenance service.
- ◆ Carefully read this manual.
- ◆ Obey proper operating procedures, safety guidelines and warning decals.
- ◆ Use the vehicle only as intended.
- ◆ Perform a daily vehicle inspection that includes the body and all operating systems, all vehicle safety equipment and safety decals located on and in your vehicle. Ensure that the inspection is documented and bring any defects to the attention of your supervisor.
- ◆ Prior to leaving for your daily route, ensure that all mirrors, windows and lights are clean and properly adjusted. Ensure that all cameras and monitors are properly adjusted and operating correctly.
- ◆ On your daily route, or during your service duties, stay safe. Obey all safety decals and safe operating procedures. Watch for other people, obstructions and overhead hazards.
- ◆ Always utilize the vehicle safety features, such as tailgate props and hoisted body prop.
- ◆ Remember to wear all safety equipment when loading and packing refuse or while performing service duties.

IMPORTANT: Under no circumstances should you operate damaged or malfunctioning equipment. Report all malfunctions to your supervisor immediately.

ALLEY-GATOR™ Road Rules

Rule the road with safety. Stay safe and help keep those around you safe. Prior to performing your daily route, know and obey the route rules and regulations provided by your employer and follow these important guidelines. As an operator you should never do the following:

- ◆ Drive with the body raised.
- ◆ Drive with an unlocked tailgate.
- ◆ Exit the cab without engaging the chassis parking brake.
- ◆ Back up the truck while unloading refuse.
- ◆ Hoist the body while on uneven ground.
- ◆ Prop a loaded body with the hoist safety prop.

- ♦ Enter the hopper or main body unless the engine is shut off, the key is removed and there is an out-of-service tag on the steering wheel.
- ♦ Stand under a raised body without the safety props in place.

Safety Decal Categories

Recognizing and understanding the safety decals affixed to your vehicle can prevent damage and could prevent injury or even death. Decals fall into the following four categories:

DANGER: (White letters on Red Background) Extreme hazard of severe injury or death.

WARNING: (Black letters on Orange Background) Danger of death or severe injury.

CAUTION: (Black letters on Yellow Background) Danger of injury or equipment damage.

CAUTION: (Black letters on Yellow Background - no safety symbol) Danger of equipment damage only.

Figure 2-1 Safety decal categories



Be sure to familiarize yourself with these decals.

Safety Decals and Locations

Pay careful attention to all safety decals and warnings while operating/working in and around the ALLEY-GATOR™ Automated Side Loader. Keep your decals clean and in good condition at all times. For replacement decals, either individual or complete decal kits, call LabriePlus at 1-800- 231-2771 in the U.S. or 1-877-831-8250 in Canada, and order using the part numbers as printed on the bottom of the decal or as depicted on the following pages. Bilingual decals are available in English/Spanish or English/French versions.



P/N 0605-760
DANGER PINCH POINT
Located left side of arm. Also both side of vehicle near tailgate locks.



P/N 0605-788
WARNING TAILGATE LOCKS
Located on both side of the body, near the tailgate locks.



P/N 0605-776
DANGER STAND CLEAR
PACKER PANEL IN
MOTION
Located on hopper cover, both side of vehicle.



P/N 0605-794
DANGER STAND CLEAR
TAILGATE
Located both side of body, near tailgate.



P/N 0605-768
CAUTION STOP ENGINE
Located on body, right side of ladder.



P/N 0605-798
NOTICE SETTING TAILGATE PROPS
Located both side of backdoor, next to tailgate props

PRECAUTIONS

- DO NOT ATTEMPT TO RUN THIS MACHINE UNTIL YOU HAVE READ AND UNDERSTAND THE CONTENT OF THE OPERATION / MAINTENANCE MANUAL.
- DO NOT OPERATE MACHINE IN AN UNSAFE MANNER.
- INSPECT MACHINE FOR LOOSE, BUSHED OR EXCESSIVELY WORN PARTS. DO NOT OPERATE MACHINE UNTIL THOSE PARTS ARE TIGHTENED, REPAIRED OR REPLACED.
- BEFORE MOVING OR OPERATING MACHINE, MAKE SURE AREA IS CLEAR.
- LISTEN FOR STRANGE, OR ABOVE NORMAL SOUNDS WHEN MACHINE IS BEING MOVED OR OPERATED. STOP WORK IMMEDIATELY WHEN SAFE TO DO AND REPORT PROBLEMS TO PROPER AUTHORITY FOR DISPOSITION.
- WHILE MACHINE IS RUNNING DO NOT ENTER ANY PINCH AREA. DO NOT ENTER REVERSE BODY.
- BE AWARE OF ALL MOVING MEMBERS, ESPECIALLY ROTATING PARTS.
- DO NOT ALLOW CLOTHING OR HAIR TO BECOME ENTAILED IN MACHINERY.
- STAND CLEAR OF ALL ELEVATED MEMBERS.
- WHILE CLIMBING ON OR OFF MACHINE, MAKE SURE FOOTWEAR IS FREE OF SLIPPERY OR GREASY MATERIAL.
- DO NOT LOAD ITEMS WHICH WILL CAUSE DAMAGE TO OR JAMMING OF MECHANISM.
- BE ALERT FOR FALLING OR FLYING OBJECTS.
- IF EXHAUSTOR IS REQUIRED, BLADES MUST BE SHUT DOWN FIRST. REMOVE EXHAUSTOR KEY AND ONLY START UP AFTER MASTER PUMP BEFORE ENTERING BODY OR BEGINNING STRAPING TO UNLOADING.

PRECAUCION

- PROCURE NO HACER FUNCIONAR ESTA MAQUINA HASTA QUE HAYA LEIDO Y ENTENDIDO EL CONTENIDO DEL MANUAL DE OPERACION Y MANTENIMIENTO.
- NO OPERE O HAGA FUNCIONAR LA MAQUINA EN UNA FORMA INSEGURA.
- REVISAR LA MAQUINA PARA VERIFICAR SI HAY PARTES ROTAS, DESGASTADAS O EXCESSIVAMENTE DESGASTADAS. NO OPERE LA MAQUINA HASTA QUE HAY SIDO REPARADAS, REPARADAS O REEMPLAZADAS.
- ANTES DE MOVER O HACER FUNCIONAR LA MAQUINA, ASEGURESE QUE EL AREA ESTE CLARIFICADA.
- ESTE ATENTO A SONIDOS EXTRAÑOS O FUERA DE LO NORMAL. DETENGA CUANDO ESTE REVISANDO O VERIFICANDO LA MAQUINA. DETENGA CUANDO ESTE EN LUGAR SEGURO Y REPORTE ESTAS ANOMALIAS A LA AUTORIDAD COMPETENTE PARA QUE TOMEN LAS MEDIDAS NECESARIAS.
- ADVERTENCIA: LA MAQUINA PUEDE SER OPERADA SIN EL USO DE LA CLAVE DEL EXHAUSTOR. NO INTRODUZCA CUERPOS EXTRAÑOS.
- ESTE ATENTO A TODOS LOS MIEMBROS EN MOVIMIENTO, ESPECIALMENTE A LAS PARTES GIRATORIAS.
- NO PERMITA QUE PENA O CABELLO SE ENREDEN EN LA MAQUINA.
- MANTENGA ALEJADO DE TODOS LOS MIEMBROS ELEVADOS.
- CUANDO SUBA A LA MAQUINA, VERIFIQUE O ASEGURESE QUE EL ACCELERADOR ESTE EN POSICION DE PARADA Y NO EN POSICION DE AVANCE.

P/N 0605-802

PRECAUTIONS

Located inside cab, driver door.



P/N 0605-809

WARNING ELECTROCUTION OVERHEAD HAZARDS

Located in-cab, on the visor.
Also on body, left side of ladder.

NOTICE

EXTENSION LADDER must be SECURED in the HOME position while vehicle is in use.

AVISO

Asegúrese que la Escalera de Extensión se encuentre en posición plegada cuando el vehículo este en movimiento.

P/N 0605-815

NOTICE EXTENSION LADDER

Located on body, left side of ladder.

CAUTION

DISCONNECT ALL batteries and electronic control modules PRIOR to welding on body. Failure to observe this precaution may lead to severe damage to electronic components.

PRUDENCIA

DESCONECTE TODAS las baterías y módulos de control electrónicos ANTES de soldar la carrocería. No seguir esta medida preventiva podría causar daños graves a los componentes electrónicos.

P/N 0605-813

CAUTION DISCONNECT BATTERY PRIOR TO WELDING

Located on the battery box.

CAUTION

CHECK OVERHEAD CLEARANCES before dumping containers

PRECAUCIÓN

Asegúrese que no haya Obstáculos elevados antes de levantar y vaciar contenedor.

P/N 0605-804

CAUTION CHECK OVERHEAD CLEARANCES

Located inside cab, next to control panel.
Also on
body, left side of ladder.



P/N 0605-831
DANGER STAND CLEAR LIFT
Located on body, left side of arm.



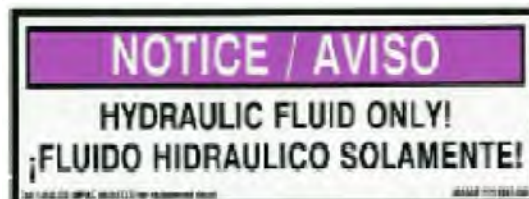
P/N 0605-835
WARNING CRUSH HAZARD
Located near body prop, both side of vehicle.



P/N 0605-840
WARNING FOOT CRUSH
Located on the body, left side of arm.



P/N 0605-843
CAUTION HYDRAULIC PRESSURE
Located on the front face of the hydraulic tank.



P/N 0605-846
NOTICE HYDRAULIC FLUID
Located on the front face of the hydraulic tank.



P/N 0605-856
WARNING HEIGHT
 Located on the body, high left side of ladder.



P/N 0605-859
CAUTION PTO HAZARD
 Located on both side of vehicle, on the frame rail.



P/N 0605-864
DANGER AMPUTATION HAZARD
 Located on both side of vehicle, near tailgate locks.



P/N 0605-854
DANGER WATCH YOUR
STEP
Located both side of body,
on the body behind the
ladder.



P/N 0605-871
CAUTION RIGHT HAND
DRIVE
Located mid-height, right
side of the back door.



P/N 0605-853
DANGER UNAUTHORIZED
PERSONNEL KEEP OFF
Located on both side of
backdoor, near tailgate props.





- **DO NOT OVERLOAD TRUCK.**
- **END GATE MUST BE LATCHED BEFORE LOADING.**
- **TRUCK MUST BE LEVEL FOR DUMPING.**
- **DO NOT STAND NEAR OR BEHIND TRUCK BODY WHILE DUMPING LOAD.**

P/N 0079-015

WARNING OVERLOAD/ LOADING/DUMPING

Located inside cab, near controls.



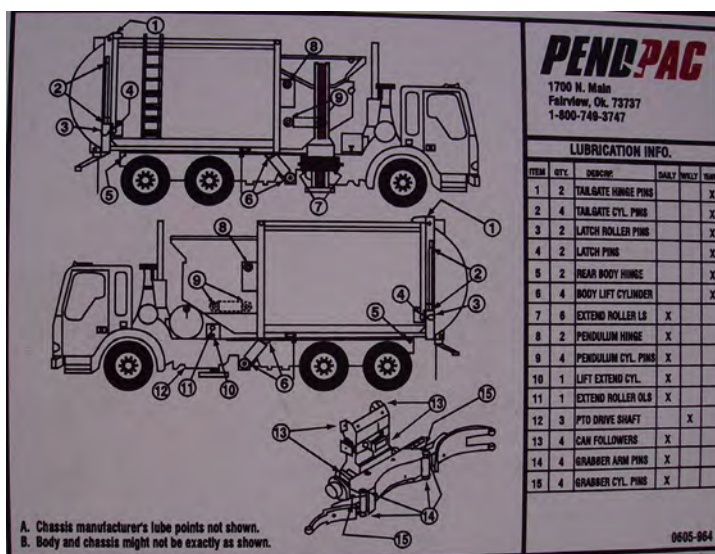
- **BODY MUST BE SUPPORTED WITH SAFETY PROPS BEFORE WORKING UNDER BODY WHILE IN RAISED POSITION. - BODY MUST BE EMPTY.**
- **LUBRICATE AND GREASE FITTINGS ON HOIST AND HINGE OFTEN.**
- **DO NOT WORK ON HOIST OR PTO WHILE IN OPERATION**

MABAR FAIRVIEW, OKLA

P/N 0079-016

CAUTION BODY SAFETY PROPS

Located both side of vehicle near body props.



P/N 0605-964

LUBRICATION SCHEDULE

Located near rear of body, curb side.



P/N 0605-967

NOTICE HYDRAULIC FLUID LEVEL

Located on the hydraulic tank.



P/N 0605-966

HYDRAULIC OIL SPECS

Located on the hydraulic tank.

Operating Safely

Prior to operating the ALLEY-GATOR™ Automated Side Loader, the operator must be completely familiar with the location, operation and function of all controls and indicators related to the operation of the vehicle. Refer to “In-Cab Control Console” on page 31.

Please remember, the safe way is the right way!

NOTE: Your unit may not have all the safety features explained here. Check with your supervisor or maintenance department if you have any questions or concerns.

Safety Features

Automatic Grease System

When properly maintained, this optional system automatically ensures that the custom selected points either on the body/chassis receive the required amount of grease.

Counter Balance Valves

Counter balance valves provide a hydraulic lock to prevent cylinders from bleeding oil back into the system. Also, these valves prevent cylinders from retracting in the event of a hose failure. On the Alley-Gator™ vehicles, a counter balance valve is used to lock the pendulum when it is in the up position and there is no hydraulic power.

Grease Manifold

The centrally mounted grease manifold provides external grease nipples for all internal grease points, which removes the need for maintenance personnel to enter the body to grease cylinders and pivot points.

Pilot Operated Check Valves

The pilot operated check valves prevent the discharge of oil out of a cylinder in the event of hose failure (see Figure 2-2).

Figure 2-2 Pilot operated check valve



Environmental Spill Kit (optional)

This kit is used to contain hydraulic oil or diesel spill due to component failure. Consult with your maintenance and safety personnel for availability and location.

Figure 2-3 Optional environmental spill kit (P/N 0072-510)



Access Ladder Proximity Switch

Installed on the access ladder, this proximity switch disables/locks out all hydraulic functions when the ladder is deployed.

Figure 2-4 Extension Ladder Proximity Switch with ladder deployed (left) and in stored position (right).



IQAN MDM Master Control Module

The ALLEY-GATOR™ is equipped with an in-cab IQAN MDM.

Figure 2-5 IQAN MDM



The IQAN MDM is the main unit of the central control system. It contains the system's application software. In addition, the MDM contains a visual interface screen that displays text, parameters and other settings. All communication with the control system takes place from the MDM via the CAN-bus network.

Various error and warning messages may appear on the IQAN MDM screen to warn the operator to certain conditions. In some cases an accompanied buzzer sounds. Those messages are similar to the following:

ARM NOT PARKED: This warning message will appear on the screen when the arm is extended and is not in the home position. *If the vehicle is in motion and the arm is not parked, pedestrians may be injured and/or other obstacles may be struck.*

PACKER BLADE STALL: This warning message will appear on the screen if the packer blade has stalled. *Stalling will occur if the body is full or if an object has jammed the packer blade.*

BODY RAISED: This warning message will appear on the screen and a buzzer will sound if the body is not firmly seated on the chassis. *The body should only be raised during unloading and maintenance.*

TAILGATE OPEN: This warning message will appear on the screen and the backup alarm will sound if the tailgate is not fully closed. *The tailgate should only be open during unloading and maintenance.*

ACCESS LADDER: This warning message will appear on the screen and a buzzer will sound when the access ladder is deployed. *All hydraulic functions become disabled when the access ladder is deployed.*

HYDRAULIC OIL TEMPERATURE: This warning message will appear on the screen and a buzzer will sound if the hydraulic oil temperature becomes dangerously high. *Continuing to operate the hydraulic functions may result in serious damage.*

HOPPER COVER: Your ALLEY-GATOR™ may be equipped with a hopper cover. If so, a warning message will appear on the IQAN MDM screen to alert you that the hopper cover is closed.

Fire Extinguisher (optional)

Your vehicle should be equipped with a fire extinguisher. This may be provided by the chassis manufacturer. A 20 lb (Class A,B,C) fire extinguisher is recommended.

Figure 2-6 Fire extinguisher (optional) P/N 0072-490



First Aid Kit (optional)

Your vehicle should be equipped with a first aid kit. It should be placed inside the cab for quick access.

Figure 2-7 First aid kit (optional) P/N 0072-500



Global Motion Sensors (optional)

The global motion sensors are an optional feature. The sensors are mounted on the tailgate of your ALLEY-GATOR™. The sensors detect obstructions from behind your vehicle and will then set the park brake and sound a buzzer to alert the operator of the rear obstruction. Please consult the OEM for more information.

Rear Vision Camera (optional)

The reverse camera mounted on the back door of the ALLEY-GATOR™ sends images to the monitor inside the cab when the transmission is in reverse or when the switch is set to 'ON'. Please consult the OEM for more information.

Figure 2-8 Rear vision camera (optional)



Hopper Camera/Side Door Camera (optional)

The hopper and side door cameras send information to the monitor inside the cab when the monitor is selected to the proper camera. Consult the OEM manual for more information.

Figure 2-9 Hopper Camera (optional) left/Side door camera (optional) right/Camera monitor (inside cab) center



Hoist Safety Prop

Your ALLEY-GATOR™ is standardly equipped with a hoist safety prop (see Figure 2-10). Prior to performing any work around/underneath a lifted body, you must set the hoist safety prop. Never use the hoist safety prop to prop a loaded body. Always unload the body prior to setting the hoist safety prop. Refer to "Stabilizing a Hoisted Body" on page 27.

Figure 2-10 Hoist safety prop



IMPORTANT: Always unload the unit before setting the hoist safety prop.

Tailgate Safety Locks

The tailgate locks are located on both sides of the rear of the body. The tailgate locks prevent the tailgate from opening accidentally. The locks **MUST ALWAYS BE LATCHED WHEN THE VEHICLE IS IN MOTION. UNLATCH THEM WHEN UNLOADING REFUSE.** Refer to “Utilizing Tailgate Locks” on page 25.

Figure 2-11 Tailgate safety locks in removed position



Tailgate Safety Props

The tailgate safety props are a standard safety feature on the ALLEY-GATOR™ (see Figure 2-12). They are located under the tailgate, one on each side. The tailgate safety props fit into a bracket on the body and prevent the tailgate from closing when you are working beneath/around an open tailgate. Refer to “Positioning the Tailgate Safety Props” on page 26.

Figure 2-12 Tailgate safety prop

Lift Lock

The ALLEY-GATOR™ is equipped with an automatic lift lock. The lift lock is designed to automatically lock at all times except during loading, it prevents the lift from extending unintentionally. Refer to “Immobilizing the Lift” on page 28.

Figure 2-13 Lift lock in engaged position

Safety Lockout Tests

Your daily inspection includes completing the safety lockout tests. Successful completion of these tests ensure that your vehicle is safe to operate.

If any of these tests fail, do not operate your vehicle until the appropriate adjustment or service has been completed.

NOTE: Your ALLEY-GATOR™ Side Loader may be equipped with other safety lockout options not mentioned here. Consult your supervisor and/or maintenance department if you have any questions or concerns.

Access Ladder Proximity Switch

Performing this test ensures the ASL¹ *access ladder proximity switch* is working. ***If the access ladder is deployed, all hydraulic functions should stop. It is imperative that you do not operate your ALLEY-GATOR™ with an inoperative or malfunctioning access ladder proximity switch.***

IMPORTANT: *Remember extreme danger exists when working in or around the hopper!*

To perform this test:

1. DEPLOY the access ladder.
2. ENSURE the warning lamp on the control console illuminates, the *access ladder warning message* appears on the IQAN MDM screen (see Figure 2-15) and the buzzer sounds.
3. ATTEMPT to OPEN the tailgate. All hydraulic functions should be DISABLED.
4. IF ANY hydraulic function is OPERATIONAL when the ladder is extended, NOTIFY your maintenance supervisor immediately.

Location: *This proximity switch is located at the base of the access ladder.*

Figure 2-14 Access ladder in deployed position



Figure 2-15 IQAN MDM display screen



-
1. Automated Side Loader

Slide Proximity Switch

Performing this test ensures the *Arm not parked* message will appear on the IQAN MDM screen (see Figure 2-15) when the slide is extended from the home position. ***Failure to heed this warning message may result in serious personal injury or material damage from a lift which is extended during travel.*** This warning also prevents dumping of refuse outside the hopper.

To perform this test:

1. PARK the vehicle in a non-traffic area. You should have sufficient room to drive approximately 100 yards (91.44 m) forward.
2. EXTEND the slide.
3. CHECK that the warning lamp on the control console illuminates and the *Arm not parked* message appears on the MDM screen (see Figure 2-15).
4. DRIVE the vehicle forward and increase engine speed to over 1,000 RPM.
5. STOP the vehicle and return the slide to the 'HOME' position (see Figure 2-17). The *Arm not parked* message on the MDM screen should disappear and the warning lamp should turn off.
6. IF the *Arm not parked* message DOES NOT appear on the MDM screen or the warning lamp DOES NOT illuminate when the lift is EXTENDED and the vehicle engine exceeds 1,000 RPM, NOTIFY your maintenance supervisor immediately.

IMPORTANT: *Do not operate the ALLEY-GATOR™ with an inoperative or malfunctioning slide proximity switch. Injury or death may occur!*

Location: *This proximity switch is mounted to the slide tube frame closest to the streetside cooler.*

Figure 2-16 Slide proximity switch

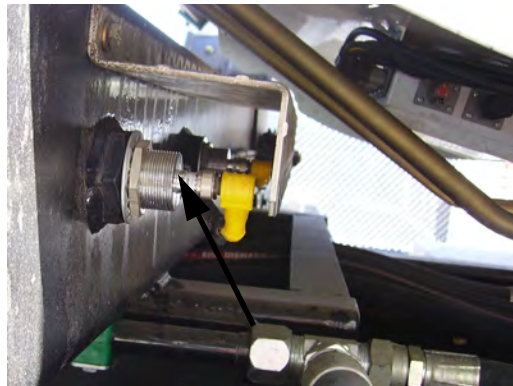


Figure 2-17 Slide retracted and in “HOME” position



Hopper Cover Proximity Switch (if equipped)

Performing this test ensures that you cannot accidentally dump refuse on top of the hopper cover.

To perform this test:

1. CLOSE the hopper cover.
2. ATTEMPT a dump cycle with an EMPTY can.
3. If the dump cycle completes, notify your maintenance supervisor immediately.

NOTE: The lift should still function to approximately 2/3 of the full lift height.

Body Raised Proximity Switch

Performing this test ensures you know when the body is properly seated on the chassis. The body should always be seated unless unloading or servicing is being performed!

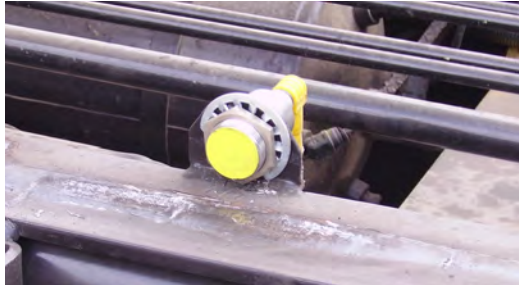
IMPORTANT: *Never drive the unit while the body is raised unless unloading.*

To perform this test:

1. LOWER the body, using the in-cab console *body UP/DOWN switch*. EXIT the cab and visually CONFIRM that the body is firmly seated on the chassis.
2. UNLATCH tailgate safety locks, and open the tailgate.
Note the body will not raise unless the tailgate is OPEN.
3. ENTER the cab, RAISE the body, using the in-cab console *body UP/DOWN switch* and note when the warning lamp on the control console illuminates and the buzzer sounds. Both should occur immediately. A *body raised* message should also appear on the MDM screen.
4. IF the warning lamp DOES NOT illuminate or the buzzer DOES NOT sound, NOTIFY your maintenance supervisor immediately.

Location: *This switch is mounted on the curb side of the chassis frame (see Figure 2-18).*

Figure 2-18 Body Raised proximity switch



Lockout/Tagout Procedure

Performing the lockout/tagout procedure should be followed whenever you are inspecting, cleaning or repairing the ALLEY-GATOR™ Automated Side Loader.

IMPORTANT: *Failure to follow the lockout/tagout procedure may result in serious injury or death.*

Prior to performing under body work, it is necessary to set the hoist safety prop. Refer to “Hoist Safety Prop” on page 18.

To lock out and tag out your ALLEY-GATOR™ unit:

1. SET chassis park brake.
2. TURN off engine, REMOVE keys from ignition and STORE keys in a safe controlled area. It is recommended that you keep the keys on your person.
3. MOVE any one of the hydraulic controls to RELIEVE any residual pressure in the system.
4. PLACE an Out-of-Service tag on the steering wheel using a non-reusable fastener and place an Out-of-Service sign in the front window.
5. TURN OFF and LOCK the battery switch.
6. CHOCK the wheels.

Figure 2-19 Lockout tags



Figure 2-20 Shut off engine, remove keys from ignition and store them in a safe controlled area



Lockout Reference Chart

Extension ladder deployed	All hydraulic functions inoperative
Vehicle engine over 1,000 RPM	Slide out, grip close, lift up and grabber inoperative
Slide not extended beyond hopper	Dump inoperative
Lift raised above vertical	Grabber OPEN inoperative
Hopper cover closed (or not fully open) - if equipped	Lift up function will not operate above vertical
Slide in	Body up function inoperative
Body raised	Slide in function inoperative
Tailgate closed & arm not extended	Body will not raise

Utilizing Tailgate Locks

The tailgate locks (see Figure 2-21) must be secured unless you are:

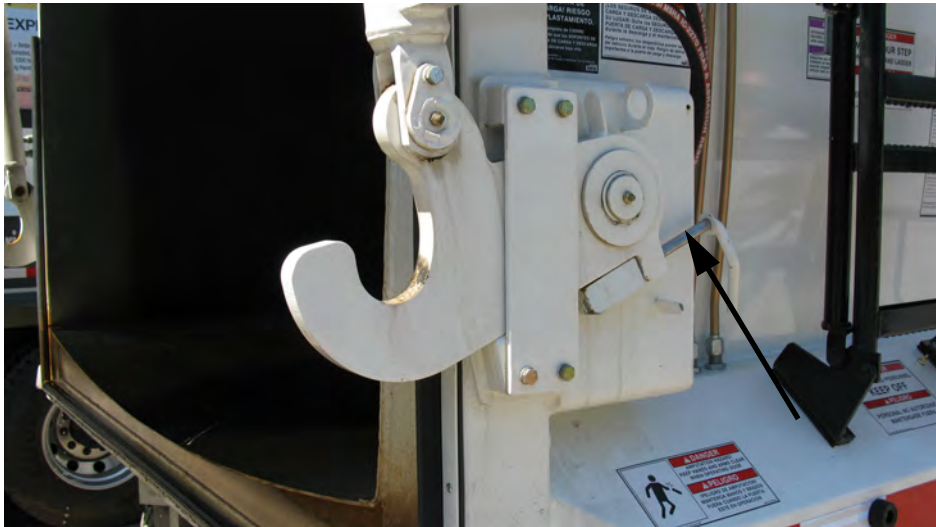
- ♦ unloading refuse
- ♦ servicing the tailgate

The tailgate locks ensure that the tailgate cannot be opened accidentally.

IMPORTANT: *Before operating the ALLEY-GATOR™ Automated Side Loader, secure both tailgate locks.*

IMPORTANT: *Before opening the tailgate, remove both tailgate locks.*

Figure 2-21 Tailgate lock



Positioning the Tailgate Safety Props

Tailgate safety props have been installed on your ALLEY-GATOR™ Automated Side Loader (see Figure 2-22). They are located on each side of the tailgate. These props are there for your protection. When latched, they ensure that the tailgate will not close while you are working beneath or around a tailgate.

IMPORTANT: *Never walk or work under the tailgate without first positioning the tailgate props.*

To position the tailgate props, do the following:

1. ENSURE there is adequate room behind the truck to open the tailgate.
2. REMOVE both tailgate locks (see Figure 2-21).
3. OPEN the tailgate by approximately 3 ft (0.91 m).
4. UNLATCH each prop from its stored position and SWIVEL it towards the side of the truck until it can be set. LATCH into place.
5. CLOSE the tailgate as much as possible. Both props should fit securely into the tailgate latch hook preventing the tailgate from fully closing.
6. COMPLETE the Lockout/Tagout Procedure. Refer to “Lockout/Tagout Procedure” on page 24.

Figure 2-22 Tailgate safety prop

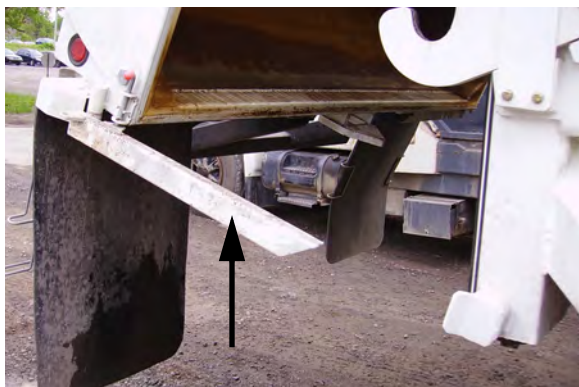


Figure 2-23 Danger decal (P/N 0605-794)



IMPORTANT: Never walk or work under the tailgate when it is open unless the tailgate safety props are installed!

Stabilizing a Hoisted Body

The ALLEY-GATOR™ Automated Side Loader is equipped with a hoist safety prop (see Figure 2-24). This safety prop is designed to stabilize the lifted body, thus allowing you to safely work beneath the body.

IMPORTANT: The hoist safety prop must be engaged if access under a lifted body is required. Do not use hoist safety prop to prop a loaded body!

To stabilize a hoisted body:

1. ENSURE that the truck is on solid, level ground and the body is empty. SET the chassis park brake.
2. CHECK for overhead clearance and CHOCK the front and rear tires.

3. UNLATCH the spring storage latch.
4. RAISE the body until the safety prop hangs free.

IMPORTANT: *Do not raise the body higher than is required for the prop. If the unlatched prop does not swing into place with the body raised, the prop has been damaged and must be repaired prior to use.*

5. LOWER the body until the safety prop feet fits into the prop retainer cut-outs and seats securely onto the chassis frame.
6. COMPLETE the Lockout/Tagout Procedure. Refer to “Lockout/Tagout Procedure” on page 24.

Figure 2-24 Hoist safety prop in engaged position



Figure 2-25 Warning decal (P/N 0605-835)



Immobilizing the Lift

Your vehicle is equipped with a lift lock (see Figure 2-27). The lock prevents the extension of the lift slide. Ensure that this lock is always in place except when loading or unloading. The lift is secured by means of an automatic operated lift lock.

To SET the lock:

1. RETRACT the lift to the 'HOME' position (slide retracted fully).
2. ENSURE the hydraulic pump is OFF. The lift lock should lock automatically.
3. PLACE the vehicle in PARK and SET the chassis park brake.

IMPORTANT: Be sure the vehicle is parked on level ground and in a low/no traffic area.

4. EXIT the cab and ENSURE that the lift lock is SET (the lock is located behind the lift).

To RELEASE the lock:

1. PLACE the vehicle in PARK and SET the chassis park brake.

NOTE: Be sure the vehicle is parked on level ground and in a low/no traffic area.

2. OPERATE the joystick to RETRACT the slide. This will relieve any pressure on the lock.
3. ENSURE the hydraulic pump is ON. The lift lock should unlock automatically.
4. EXIT the cab and ENSURE that the lift lock is RELEASED.

Figure 2-26 Slide retracted and in "HOME" position



Figure 2-27 Lift lock in engaged position



3

In-Cab Control Console

The ALLEY-GATOR™ has a series of controls that allow easier operation of the different functions that come with the vehicle. These controls are located on the in-cab control console.

NOTE: It is imperative that the operator familiarize himself with the layout and function of all the controls required to operate the ALLEY-GATOR™.

NOTE: Some controls are options and may therefore not be installed on your vehicle.

Figure 3-1 In-cab control console



ALLEY-GATOR™ ASL Control Console

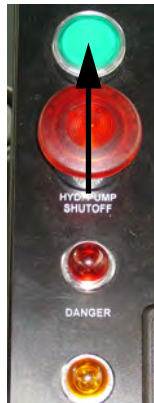
Prior to operating the ALLEY-GATOR™ Automated Side Loader, make certain that you have been provided with the proper training related to the operation of the vehicle. Operators must be confident with the location, operation and function of all controls and indicators.

Auto-Pack Switch

This switch controls the automatic pack cycle. Depress the switch and release to initiate the automatic pack cycle.

NOTE: The switch will illuminate when in auto-pack cycle.

Figure 3-2 Auto-pack switch



Hydraulic Pump Shutoff Push/Pull Button

The hydraulic pump shutoff push/pull button immediately deactivates/activates all hydraulic functions. This button is used to stop the AUTOPACK CYCLE. A light in the button illuminates when the hydraulic functions are active.

- ♦ PULL UP the button to ACTIVATE the hydraulic pump and hydraulic functions.
- ♦ PUSH DOWN to DEACTIVATE the hydraulic pump and hydraulic functions.

NOTE: Engine RPM must be below 900 to engage pump.

Figure 3-3 Hydraulic pump shutoff button



Danger Warning Lamp

This lamp will illuminate whenever the following occurs:

- ♦ The tailgate is ajar
- ♦ The body is raised
- ♦ The packer blade is stalling
- ♦ The access ladder is deployed
- ♦ The hydraulic oil is too hot

Figure 3-4 Danger warning lamp



Caution Warning Lamp

This lamp will illuminate whenever the following occurs:

- ♦ The hopper cover (top door) is not open
- ♦ The arm is not parked

Figure 3-5 Caution warning lamp

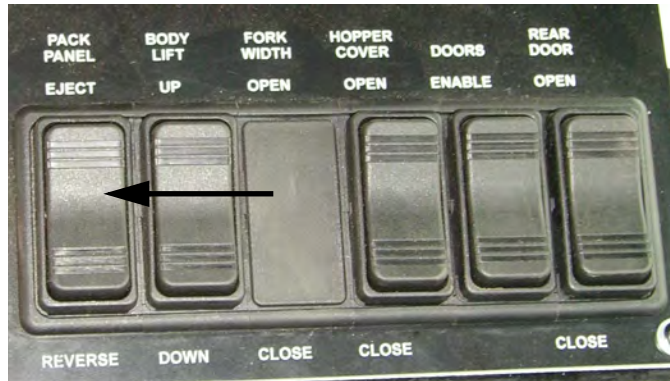


Eject/Reverse Switch

This switch is used to reverse the packer panel during auto pack.

- ◆ PRESS and HOLD the lower part of the switch to REVERSE the packer panel.

Figure 3-6 Eject/reverse switch

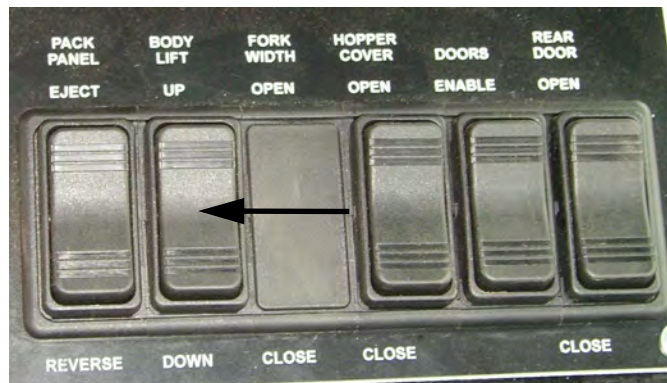


Body Up / Down Switch

The Body switch raises and lowers the ALLEY-GATOR™ body. This is a rocker button switch.

- ◆ PRESS the upper part of the switch to extend the hoist cylinders and RAISE the body.
- ◆ PRESS the lower part of the switch to collapse the hoist cylinders and LOWER the body.

Figure 3-7 Body Up / Down Switch



NOTE: A message on the MDM screen informs operator of the position of the body. Also, as soon as the body reaches a certain height a buzzer sounds.

Danger

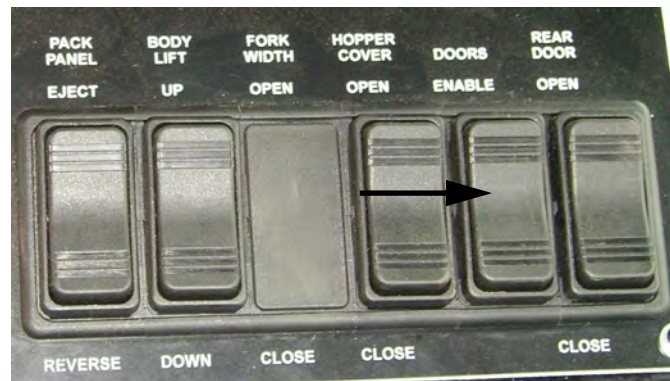
Never drive the vehicle with the body raised as there is a danger that the vehicle may tip over.

Doors Enable Switch

This switch must be activated whenever the hopper cover or rear door controls are used in order for them to function.

- ♦ PRESS and HOLD the upper part of the switch to enable the hopper cover and rear door controls.
- ♦ RELEASE this switch to disable the hopper cover and rear door controls.

Figure 3-8 Doors Enable Switch



Hopper Cover Switch

This switch (see Figure 3-9) is used to control the hopper cover (top door). It must be used in conjunction with the “Door Enable” switch beside it.

- ♦ PUSH and HOLD the upper part of the switch to OPEN the top door.
- ♦ PUSH and HOLD the lower part of the switch to CLOSE the top door.

Figure 3-9 Hopper cover switch



NOTE: The upper part of the “Doors Enable” switch must be pressed and held at the same time the “Hopper Cover” switch is activated in either direction.

Rear Door Up / Down Switch

This switch opens and closes the rear door. It must be used in conjunction with the “Doors Enable” switch beside it.

IMPORTANT: Remove the tailgate safety locks from each side of the tailgate prior to using this switch.

- ◆ PUSH and HOLD the upper part of the switch to OPEN the rear door. The in-cab buzzer and the back-up alarm will sound.
- ◆ PUSH and HOLD the lower part of the switch to CLOSE the rear door. The in-cab buzzer and the back-up alarm will silence as soon as the rear door is closed.

Figure 3-10 Rear door Up / Down switch



NOTE: The upper part of the “Doors Enable” switch must be pressed and held at the same time the “Rear Door” switch is activated in either direction.

Remote Joystick Control

This is an optional control used to supply or cut power to a remote joystick mounted inside or outside the cab. Pressing the toggle up provides power to the remote joystick. In the center position power to the remote joystick is cut off.

Figure 3-11 Location of the remote joystick control



Hopper Lamp Switch

This is an optional switch used to control the lamp mounted behind the arm on the hopper, illuminating the hopper area. Pressing the toggle upward will turn on the lamp. Pressing it back down to the center position turns the lamp off.

Figure 3-12 Hopper lamp switch



Pack Lamp Switch

This is an optional switch used to control the lamp mounted behind the cab, illuminating the packer area. Pressing the toggle upward will turn on the lamp. Pressing it back down to the center position turns the lamp off.

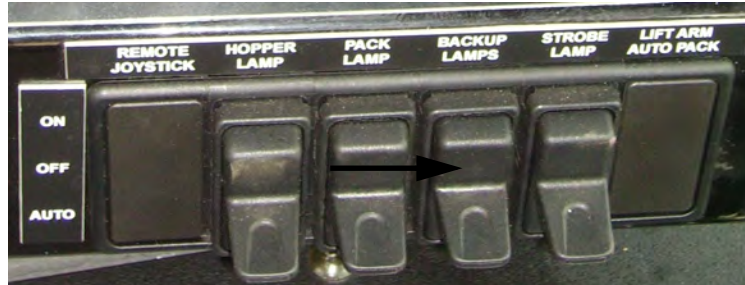
Figure 3-13 Pack lamp switch



Backup Lamp Switch

This is an optional switch used to control the backup lamps located on the tailgate near the center brake light. It will also control the fender mounted backup lamps if your vehicle is so equipped. Pressing the toggle up will illuminate the lamps. With the switch in the center position, the lamps are off. Pressing the toggle to the lower position puts the lamps in 'auto' mode, whereby they only illuminate when the transmission is in reverse.

Figure 3-14 Backup lamp switch



Strobe Lamp Switch

This is an optional switch used to control the strobe lamp, usually located on the tailgate near the center brake light. It will also control a front body mounted strobe lamp if your vehicle is so equipped. Pressing the toggle up will illuminate the lamps. With the switch in the center position, the lamps are off. Pressing the toggle to the lower position puts the lamps in 'auto' mode, whereby they only illuminate when the hydraulic pump is on.

Figure 3-15 Strobe lamp switch



MDM Control Module

This module (see Figure 3-16) displays many warnings as well as other information such as the hours of operation of the ALLEY-GATOR™ and the number of bins emptied into the hopper.

This module is fully programmable. It has function and control buttons as well as a graphical display which informs the operator of the status of the different functions of the truck and of any potential problems.

If an error occurs, the module will warn the operator with a signal, and a message will appear on the display screen.

All communication with the control system takes place from the MDM via the CAN-bus network.

Figure 3-16 MDM control module



Lift Controls

Joystick / Thumbswitch

The joystick is located on the right-hand drive central armrest.

Figure 3-17 Joystick



The joystick controls the slide “extend” and arm “raise” functions and operates on 90° angles. The thumbswitches engage and release the grabber.

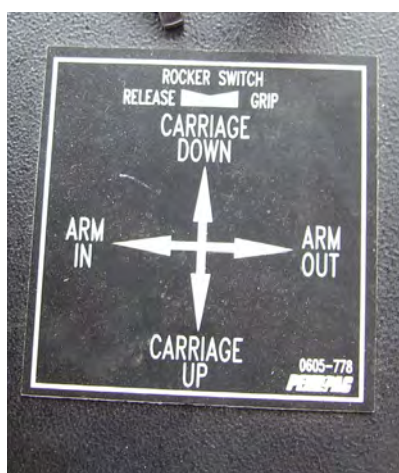
- ♦ SHIFT the joystick RIGHT to EXTEND the arm.
- ♦ DEPRESS the RIGHT-hand side thumbswitch to ACTIVATE the grabber and securely grip the container.

- ♦ SHIFT the joystick LEFT to RETRACT the arm.
- ♦ PULL the joystick BACK to RAISE the lift.
- ♦ PUSH the joystick FORWARD to LOWER the lift.
- ♦ DEPRESS the LEFT-hand side thumbswitch to RELEASE the container.

NOTE: All extend functions (slide, arm and grabber) are disabled when the engine is running over 1000 RPM. Retract functions will still operate.

The lift should always be secured except when loading or unloading. Refer to “Immobilizing the Lift” on page 28.

Figure 3-18 Joystick functions



4

Operating the ALLEY-GATOR™

Prior to Vehicle Operation

Prior to operating your ALLEY-GATOR™ Automated Side Loader, ensure that you have been provided with the proper training related to the safe operation of the vehicle. As an operator, you must be familiar with the location, operation and function of all controls and warning indicators provided and adhere to all safety rules and procedures.

NOTE: Some controls are options and may therefore not be installed on your vehicle.

Prior to starting the ALLEY-GATOR™, operators are required to perform a daily pre-trip inspection.

Review the Operator Pre-Trip Inspection provided on the following page.

Ensure that all malfunctions or concerns are reported to your supervisor and/or maintenance department.

Prior to engaging in your route, consult with your supervisor for specific driving rules.

Remember to obey all speed restrictions and road regulations.

Qualified Operators Only

All persons operating the ALLEY-GATOR™ must have the correct state/province issued license to drive the chassis that the ALLEY-GATOR™ is mounted to, which includes certification to operate vehicles equipped with air brakes.

Operator Pre-Trip Inspection: Prior to Starting the Vehicle

The following check list should be completed prior to starting the engine.

Table 1 Operator Check List

√	Tasks to be done
	Ensure the engine is not running and the chassis park brake is set.
	Check cleanliness of decals, mirrors, windows, lights, and the vehicle in general.
	Check safety equipment is present (i.e. fire extinguisher, first aid kit, spill kit).
	Check body is seated flat relative to chassis. Is it leaning?
	Check body mounts to chassis are tight and there are no cracks.
	Check body for unusual wear, distortion, cracking, leaning, leaking.
	Check hydraulic oil level in sight gauge on tank. Cylinders must be collapsed.
	Check hydraulic tank valves are fully open.
	Check hydraulic cylinders for leaks, and mounting pins are secure.
	Check that the access ladder is in stored position.
	Confirm tailgate is fully closed and BOTH tailgate locks are in place.
	Check that the lift is fully retracted and in the 'HOME' position. Check that slide is locked.
	<i>Start the vehicle and visually confirm the following:</i>
	Warning light activates when slide is extended, arm is raised, or grabber is engaged when not stowed.
	Check that the lift is secured before driving the vehicle. Refer to "Immobilizing the Lift" on page 28 and on this page.

Immobilizing the Lift for Travel

To immobilize the lift:

1. RETURN the lift to the "HOME" position (slide is fully RETRACTED, arm is all the way UP, grabber is fully CLOSED). See Figure 4-1.
2. TURN OFF the hydraulic pump by pressing the Hydraulic Pump Shutoff button. The light in the button will turn off, meaning the pump is deactivated. See Figure 4-3.
3. ENSURE the lift lock is ENGAGED. See Figure 4-2.

Figure 4-1 Lift in “HOME” position



Figure 4-2 Lift lock in engaged position

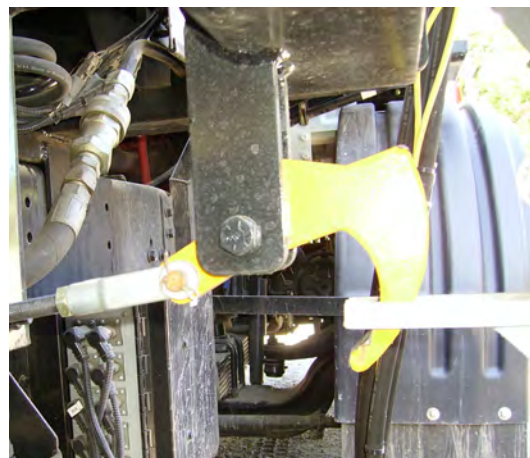


Figure 4-3 Hydraulic pump shutoff button



En Route

Consult with your supervisor for specific rules regarding driving the Automated Side Loader in your location.

IMPORTANT: Please remember the following important points:

- ♦ The tailgate MUST BE fully CLOSED with BOTH safety locks in place.
- ♦ ENSURE hopper cover is CLOSED (if equipped).
- ♦ ENSURE the body is FIRMLY SEATED on the chassis.
- ♦ OBEY speed restrictions and road regulations.

Figure 4-4 Safety lock in locked position



Loading the Hopper

NOTE: Ensure all controls are ENABLED for right-hand/or left-hand drive operation.

To load the hopper, do the following:

1. PULL UP the Hydraulic Pump Shutoff button (see Figure 4-3).
2. ACTIVATE AUTOPACK (see Figure 4-5).
3. OPEN the hopper cover (if equipped).
4. POSITION the lift parallel to the container.

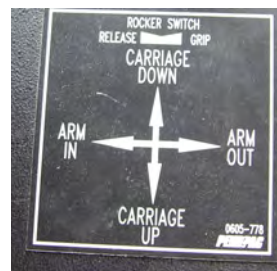
IMPORTANT: Be sure there is enough clearance to dump the container.

5. Using *joystick*, SLIDE arm out to reach container (see Figure 4-6).
6. Using *joystick*, ADJUST grabber height (see Figure 4-6).
7. Using *thumbswitch*, GRIP container firmly (see Figure 4-6).

Figure 4-5 AutoPack button



Figure 4-6 Joystick functions



Auto Packing

The following is the Auto Packing procedure:

1. OPEN the hopper cover (if equipped).

NOTE: The hopper cover is only designed to prevent refuse escaping the hopper during transport. It should not be closed during packing. Serious damage may result if in the closed position.

2. PRESS and RELEASE the AutoPack push button (see Figure 4-5).

This will initiate the AUTOPACK cycle; the pendulum packer blade will complete continuous sweeps of the hopper.

NOTE: The ALLEY-GATOR™ Automated Side Loader's AUTOPACK cycle operates independently of the dump cycle. Refuse may be emptied into the hopper at any time during the AUTOPACK cycle.

3. You may STOP the AUTOPACK cycle at any time by pushing the Hydraulic Pump Shutoff button (see Figure 4-3).

ASL Body Capacity

Knowing when your ALLEY-GATOR™ Side Loader is nearing capacity is critical! Indications that your Side Loader is nearing capacity include:

- ♦ the packer blade fails to complete a full sweep of the hopper;
- ♦ the packer blade is stalling (a message indicating this condition is displayed on the MDM screen);
- ♦ the bin count approaches the number of bins which usually fill the body (the number of bins emptied in the hopper is displayed on the MDM screen).

Preparing to Drive to the Landfill

Refer to “Immobilizing the Lift” on page 28 and page 42.

NOTE: FOLLOW COMPANY OR LOCAL REGULATIONS ON DRIVING TO LANDFILL FROM RIGHT OR LEFT SIDE.

- ♦ Ensure no refuse is on top of the body.
- ♦ Ensure IN-CAB WARNING LAMP is OFF.
- ♦ Ensure the LIFT LOCK is ENGAGED (see Figure 4-2).

Preparing to Unload at the Landfill

Apply the following procedure:

1. LOCATE an appropriate ground surface to unload. It should be solid and level beneath and ahead of the Side Loader. Check to ensure there is adequate room for the tailgate to open.

IMPORTANT: Serious injury or mechanical damage could result if ground is unstable.

2. STRAIGHTEN the wheels.
3. SET the chassis park brake.
4. PULL UP the Hydraulic Pump Shutoff button to TURN ON the hydraulic pump (see Figure 4-3).
The light in the button will illuminate.
5. PUSH the lower part of the rear door UP/DOWN SWITCH (see Figure 3-10).
This will relieve any pressure from the tailgate locks and aid removal.
6. REMOVE both tailgate locks (see Figure 2-21).

Figure 4-7 Warning decal



Unloading at Landfill

To unload carried refuse at landfill:

1. OPEN the tailgate. The warning lamp on the control console will illuminate and the back-up alarm will sound (see Figure 3-4).

NOTE: The tailgate must be fully open while unloading.

2. LOWER and EXTEND the arm sufficiently to allow the body to clear when raised.
3. PRESS the AutoPack button (see Figure 4-5). The AUTOPACK cycle will clear the hopper of any refuse while unloading.
4. RAISE the body fully.

NOTE: The body cannot be raised with the slide retracted and the tailgate closed.

5. RELEASE the chassis park brake.

NOTE: The foot brake should be released while you unload to allow the force of the load to push the unit forward. Always be alert of what is in front of the Side Loader.

6. DRIVE the unit slightly forward as the refuse is unloaded. This prevents refuse from building up under the tailgate.

NOTE: The Side Loader's center of gravity is very high when the body is raised. Keep distance traveled to a minimum.

7. When unloading is completed, SET the chassis park brake.
8. LOWER the body and CLOSE the tailgate. The warning lamp on the control console will extinguish and the buzzer will stop when the body is firmly seated on the chassis and the tailgate is completely closed (see Figure 3-4).
9. PUSH DOWN the Hydraulic Pump Shutoff button (see Figure 4-3). The AUTOPACK cycle will stop.

Hopper & Body Cleaning

The ALLEY-GATOR™ Automated Side Loader body and hopper are self-cleaning. DAILY CLEANING IS UNNECESSARY.

Occasionally, maintenance personnel may wish to wash out the hopper and body. Be sure to follow the Lockout/Tagout procedures and take all necessary precautions before entering the body. Refer to “Lockout/Tagout Procedure” on page 24.

IMPORTANT: Under no circumstances should the operator enter the body or hopper.

Transportation Preparations

Apply the following procedure:

1. OPEN the tailgate until it is approximately 4 ft. (1.2 m) from the tailgate seal.
2. POSITION the tailgate safety props. Refer to “Positioning the Tailgate Safety Props” on page 26.
3. COMPLETE the lockout/tagout procedure. Refer to “Lockout/Tagout Procedure” on page 24.
4. CLEAN the tailgate seal area of debris.

IMPORTANT: Do not stand under the raised tailgate unless you have followed the proper lockout procedure and have installed the tailgate safety props.

Figure 4-8 Warning decal (P/N 0605-794)



5. REVERSE the lockout procedure.
6. REMOVE the tailgate safety props.
7. CLOSE the tailgate completely.
8. SET the tailgate locks.
9. ENSURE the lift is in the ‘HOME’ position and the lift lock is engaged (see Figure 4-1 and Figure 4-2).
10. TURN OFF the hydraulic pump with the Hydraulic Pump Shutoff button (see Figure 4-3).

Shutting Down your ASL

To shut down your ASL:

1. PARK the Side Loader on a solid, level surface.
2. SET chassis park brake.
3. RETURN the lift to the “HOME” position and check that the lift lock is ENGAGED (see Figure 4-1 and Figure 4-2). Refer to “Immobilizing the Lift” on page 28.
4. TURN OFF the hydraulic pump by pushing down the Hydraulic Pump Shutoff button (see Figure 4-3). The light in the button will turn off.
5. SWITCH OFF all light switches.
6. SHUT the vehicle OFF following the chassis manufacturer's recommendations.



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