

PENBPAC SPRINTER™

OPERATOR'S MANUAL



 **labrie**
Labrie **Enviroquip** Group



WITTKE

PENBPAC

PENDPAC

SPRINTER™

OPERATOR'S MANUAL



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Introduction

The purpose of this manual is to introduce operators to the procedures involved in properly operating the SPRINTER™. For information regarding maintenance procedures, refer to the SPRINTER™ maintenance manual.

Pre-Operating Instructions

It is imperative that you carefully review this manual prior to operating and/or servicing your new SPRINTER™.

Upon receipt of your new SPRINTER™ unit, perform a complete lubrication. Mechanisms must be properly lubricated. Factory lubrication is adequate for production and transport purposes only. In addition, the return filter element must be replaced after 50 hours of use.

Mission Statement

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

Vision Statement

The Labrie Enviroquip Group Team 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.

Introducing the SPRINTER™

The SPRINTER™ Commercial Side Loader is an automated refuse collection truck equipped with an hydraulically operated mast, which can handle plastic containers as well as steel containers. This mast is specifically designed to provide speed, driver safety, environmental benefits and low cost of maintenance.

The SPRINTER™ is the result of concerted efforts to develop a cost effective solution for those seeking the most from their waste transportation systems. The SPRINTER™ is a very functional yet very simple-to-maintain truck.

Thanks to its low profile height design, the SPRINTER™ is bridge and overpass friendly, and because it requires less lateral space to dump containers, it is perfect for alleys and narrow streets.

The SPRINTER™ side-loading compaction system is the ideal equipment for collecting steel containers that range in size from 1.5 to 4 yd³ and plastic containers from 60 to 350 gallons without changing attachments.

The SPRINTER™ Side Loader is built to rigorous quality standards. Everything has been foreseen to achieve excellent reliability. The body has a high capacity (up to 40 yd³) compaction storage area with a fully horizontal payload ejection.

With the SPRINTER™ Automated Side Loader, you take advantage of an active compaction system. By packing the load you spend more time working and less time traveling, unloading and traveling back from waste site.

Figure 1-1 Loading mast



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 is always of prime importance when operating any type of equipment. All operators working with the SPRINTER™ must be aware of the safety practices and features detailed in this section.

Safety Precautions for the Owner

Labrie Enviroquip Group strongly believes that safety is a team effort. Bearing this in mind, we encourage the employer to follow these guidelines:

- ♦ Properly maintain mobile equipment to meet all applicable regulatory safety standards.
- ♦ Ensure containers lifted by container lifting mechanism do not exceed load rating as specified by the manufacturer.
- ♦ Provide all employees – both operators and maintenance personnel – with proper training that includes safe vehicle operation procedures and ensure that those procedures are monitored on a continual basis.
- ♦ Ensure that all employees have read this manual.
- ♦ Provide operators with the necessary route rules and regulations. Instruct operators on awareness to road hazards such as other people, obstructions and dimensional constraints which include familiarity with the vehicle width and height, both while at rest and during operation.
- ♦ Ensure that all vehicle safety features, such as tailgate props, are properly used by all personnel when operating or servicing the vehicle.
- ♦ Provide necessary safety equipment and apparel.
- ♦ Ensure proper lighting for work at night, including adequate visibility of loading hopper and overhead obstructions.

- ◆ Ensure that a daily vehicle inspection is performed. Document inspections, including all maintenance, repairs and malfunction items.

NOTE: All service opening covers and access doors must be maintained in place and equipped with functioning safety interlock switches while vehicle is in use.

IMPORTANT: Do not allow operation of the SPRINTER™ 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.
- ◆ Ensure, prior to and during operation of equipment, the following:
 - a. Access door is latched with safety interlock switch operating correctly.
 - b. During all phases of dumping or packing process, area is clear of persons, including time tailgate is open and/or closed. Operator to instruct persons NOT to cross under open tailgate.
 - c. Manufacturer's recommended operating and safety instructions are taken into account.
- ◆ Obey proper operating procedures, safety guidelines and warning decals.
- ◆ Use the vehicle only as intended.
- ◆ Perform a daily vehicle inspection that includes all operating systems, all vehicle safety equipment (parking brake, lights, back-up alarm, horns, tires, safety interlock switches, etc.) and safety decals. Ensure that the inspection is documented and bring any defects to the attention of your supervisor.

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

- ◆ Make sure all safety interlock systems are functioning properly.
- ◆ Prior to operating the vehicle, ensure that all mirrors, windows and lights are clean and properly adjusted. Ensure that all cameras and monitors, if installed, are properly adjusted and function correctly.
- ◆ Do not operate machine in an unsafe manner.
- ◆ Use extreme caution when operating machine in dangerous areas such as: slopes, overhangs, high walls, ridges or ditches.
- ◆ Report damage or malfunction of equipment to employer/supervisor when incident occurs or as soon as possible prior to end of operating day.
- ◆ Avoid greasy hands, steps, ladders, catwalks, and floors. Keep hands, floors, and controls free from water, grease, and mud to assure non-slip control.

- ♦ Do not leave equipment in dangerous positions unattended without taking proper parking precautions.
 - ♦ Mast and tailgate will fall if hydraulic pressure is lost. Do not walk or stand under the mast or tailgate. Do not park vehicle with tailgate in the UP position.
 - ♦ 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.
 - ♦ Before moving or operating machine, including tailgate, make sure area is clear.
 - ♦ Always utilize the vehicle's safety features, such as tailgate props.
 - ♦ Before opening tailgate, make sure no one is behind the truck.
 - ♦ Be alert for falling or flying objects.
 - ♦ Remember to wear all safety equipment prescribed by your employer.
 - ♦ While machine is running, do not enter any pinch area. Do not enter refuse body.
 - ♦ Listen for strange or above normal sounds when machine is being moved or operated. Shut down machine when safe to do and report problems to your supervisor.
 - ♦ Make certain that no one is in a danger area before entering operator's compartment. Sound horn before moving unit. If possible, have someone for guidance when backing unit.
 - ♦ Do not operate unit without instruments. Each gauge and/or indicator light on the truck instrument panel serves as an important check point for operating conditions of the unit. Do not operate unit if gauges and/or indicator lights are not functioning properly.
 - ♦ Do not leave machine unattended. Mast should be either in a full "down" or full "dump" position. The tailgate should be closed and locked. All keys from the equipment control panel should be removed.
 - ♦ Do not place hands on roller track or other moving parts.
 - ♦ Stand clear of mast and tailgate.
 - ♦ Do not operate mast until you know it is clear.
 - ♦ Do not dump until you know tailgate area is clear.
 - ♦ Stop unit to service or adjust. Stop all operation and shut down unit when cleaning, adjusting, and lubricating unit.
- Tailgate must be in the "down" position. All keys and master fuse must be removed from the equipment control panel. If parked on a grade or slope, wheels should be blocked.
- ♦ Use a low speed range and periodic brake application to control unit speed when descending a steep slope.

Mechanical Safety Rules

- ♦ If welding hydraulic equipment, care should be exercised so that accumulated dirt and oil do not become ignited. Cleaning the area before welding would be a good practice. Keep fire extinguisher close to working area. Good housekeeping is a must.
- ♦ Gasoline fuel tanks should be removed and located outside of the welding area. Diesel fuel tanks should be covered with a wet tarp to prevent fumes from causing an explosion or fire. If the battery of the truck is located near the repair area where sparks can fall on the battery, it is possible to blow up the battery from the acid fumes.

- ♦ If it becomes necessary to weld or braze a hydraulic reservoir, hydraulic oil when sufficiently heated and in the presence of air is a powerful explosive. Any method of brazing, welding, or open flame soldering without proper preparation is hazardous.
- ♦ Safety equipment should be worn when working under conditions that require their use.
- ♦ When two or more people are testing a hydraulic system, be sure that each person is informed of the procedure to be followed. Avoid contact with rotating couplings between hydraulic motors, pumps, power-take-offs, etc.
- ♦ Hydraulic oil under pressure can be dangerous. Care should be taken when bleeding or opening a high pressure line (release pressure slowly), as a thin stream of oil can inflict injury. Unauthorized pressure settings of relief valves can burst lines, valves, pumps, or cylinders.
- ♦ If repairing tailgate, packer panel, cylinders, lift, lift undercarriage, etc., provide proper supports or safety chains to prevent these heavy component parts from slipping or falling. This could cause damage to the unit and/or severe injury to the person making the repairs.

SPRINTER™ 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:

1. Drive with the tailgate raised.
2. Drive without the tailgate lock hooks in place or with the tailgate ajar.
3. Exit the cab without engaging the chassis parking brake.
4. Back up the truck while unloading refuse.
5. Raise the tailgate while on uneven ground.
7. 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. Refer to “Lockout/Tagout Procedure” on page 31.

Safety Controls

Safety should be your number one priority. Before operating the SPRINTER™, the operator must be completely familiar with the location, operation and function of all controls and indicators related to the operation of the unit. Refer to “Controls and Indicators” on page 35.

Safety Decals - Categories and Location

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:

Figure 2-1 Safety decal 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



NOTICE: Black letters on purple background. Instructions only.

See the following figures for the location and content of all safety decals. Decals on the vehicle may change depending on what special feature was installed on the vehicle and the type of body and cab configuration. Call *LabriePlus* for decal replacement.

Please note the following:

- ♦ Warning messages on decals must be obeyed at all times.
- ♦ Decals must be in place at all times. Report any damaged or missing decals to your supervisor.
- ♦ Replacement of safety decals can be ordered free of charge from *LabriePlus* during guarantee period.

Decals on Body (near Tailgate)



P/N 605-788



P/N 605-794



P/N 605-760



P/N 605-864

Decals on Body (near Streetside/Curbside Front Corners)

P/N 605-768



P/N 605-776



P/N 605-864



P/N 605-831



P/N 605-840

Decals on Body (near Access Doors)



P/N 605-784



P/N 605-853



P/N 605-854

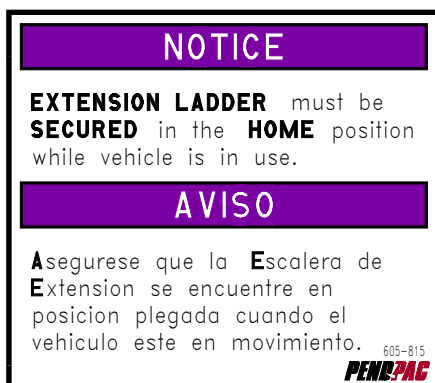
Decals on Body (near Ladder)



P/N 605-853



P/N 605-854



P/N 605-815



P/N 605-856

Decals on Tailgate

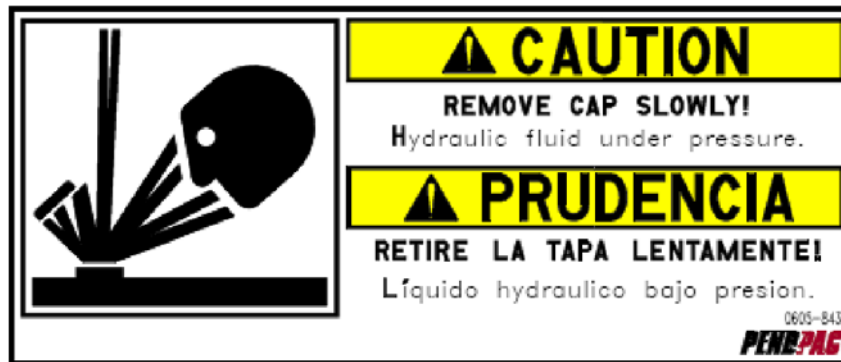


P/N 605-798




P/N 605-871

Decals on Hydraulic Tank



P/N 605-843

CAUTION



TO PREVENT POSSIBLE INJURY OR DEATH

DO NOT GO UNDERNEATH THE VEHICLE WITH THE ENGINE RUNNING.
 DO NOT WORK NEAR A ROTATING DRIVESHAFT TO PREVENT GETTING CAUGHT OR ENTANGLED.
 DO NOT ATTEMPT TO OPERATE THE CONTROLS OF THE POWER TAKE-OFF OR OTHER DRIVEN EQUIPMENT FROM UNDERNEATH THE VEHICLE WITH THE ENGINE RUNNING.
 DO NOT OPERATE THE CONTROLS OF THE POWER TAKE-OFF OR OTHER DRIVEN EQUIPMENT IN ANY POSITION THAT COULD RESULT IN GETTING CAUGHT IN THE MOVING MACHINERY.
 DO NOT ATTEMPT TO WORK ON AN INSTALLED POWER TAKE-OFF WITH ENGINE RUNNING.

PRECAUCION

PARA EVITAR POSIBLES LESIONES O MUERTE

NO PASE POR DEBAJO DEL VEHICULO CON EL MOTOR EN FUNCIONAMIENTO.
 NO TRABAJE CERCA DEL EJ PROPULSOR PARA EVITAR SER ATRAPADO O ENREDADO.
 NO TRATE DE OPERAR LOS CONTROLES DE LA TOMA DE FUERZA O DE OTRO EQUIPO CONDUcido POR DEBAJO CUANDO ESTE EN FUNCIONAMIENTO DEL MOTOR.
 NO HAGA FUNCIONAR LOS CONTROLES DE DESPEGUE O DE OTRO EQUIPO EN CUALQUIER POSICION QUE PUEDA TENER COMO RESULTADO EN SER ATRAPADO POR LA MAQUINA EN MOVIMIENTO.
 PROCURE NO TRABAJAR SOBRE UNA TOMA DE FUERZA INSTALADA CON EL MOTOR EN FUNCIONAMIENTO.

P/N 605-859

NOTICE / AVISO

FILL TO THIS LEVEL
(ALL CYLINDERS CLOSED)



LLENE HASTA ESTE NIVEL
(TODOS LOS CILINDROS CERRADOS)

PENEPAC 0605-967

P/N 605-967

NOTICE

This unit has been factory filled with
HYDRAULIC OIL
 OIL BRAND: CASTROL
 OIL TYPE: 32 AW

PENEPAC 0605-966

P/N 605-966

NOTICE / AVISO

HYDRAULIC FLUID ONLY!
¡FLUIDO HIDRAULICO SOLAMENTE!

0605-846
PENEPAC

P/N 605-846

Decals in Cab



P/N 605-809

PRECAUTIONS

1. DO NOT ATTEMPT TO RUN THIS MACHINE UNTIL YOU HAVE READ AND UNDERSTAND THE CONTENT OF THE OPERATION / MAINTENANCE MANUAL.
2. DO NOT OPERATE MACHINE IN AN UNSAFE MANNER.
3. INSPECT MACHINE FOR LOOSE, BROKEN OR EXCESSIVELY WORN PARTS. DO NOT OPERATE MACHINE UNTIL THOSE PARTS ARE TIGHTENED, REPAIRED OR REPLACED.
4. BEFORE MOVING OR OPERATING MACHINE, MAKE SURE AREA IS CLEAR.
5. LISTEN FOR STRANGE, OR ABOVE NORMAL SOUNDS WHEN MACHINE IS BEING MOVED OR OPERATED. SHUT DOWN MACHINE WHEN SAFE TO DO AND REPORT PROBLEMS TO PROPER AUTHORITY FOR DISPOSITION.
- * 6. WHILE MACHINE IS RUNNING DO NOT ENTER ANY PINCH AREA. DO NOT ENTER REFUSE BODY.
7. BE AWARE OF ALL MOVING MEMBERS, ESPECIALLY ROTATING PARTS.
8. DO NOT ALLOW CLOTHING OR HAIR TO BECOME ENTANGLED IN MACHINERY.
- * 9. STAND CLEAR OF ALL ELEVATED MEMBERS.
10. WHEN CLIMBING ON OR OFF MACHINE, MAKE SURE FOOTWEAR IS FREE OF SLIPPERY OR GREASY MATERIAL.
11. DO NOT LOAD ITEMS WHICH WILL CAUSE DAMAGE TO OR JAMMING OF MECHANISM.
12. BE ALERT FOR FALLING OR FLYING OBJECTS.
- * IF EXPOSURE IS REQUIRED, BLOCK SECURELY, SHUT DOWN ENGINE, REMOVE IGNITION KEY, AUXILIARY ENGINE KEY, AND MASTER FUSE BEFORE ENTERING BODY OR BECOMING EXPOSED TO DANGER ZONE.

PRECAUCION

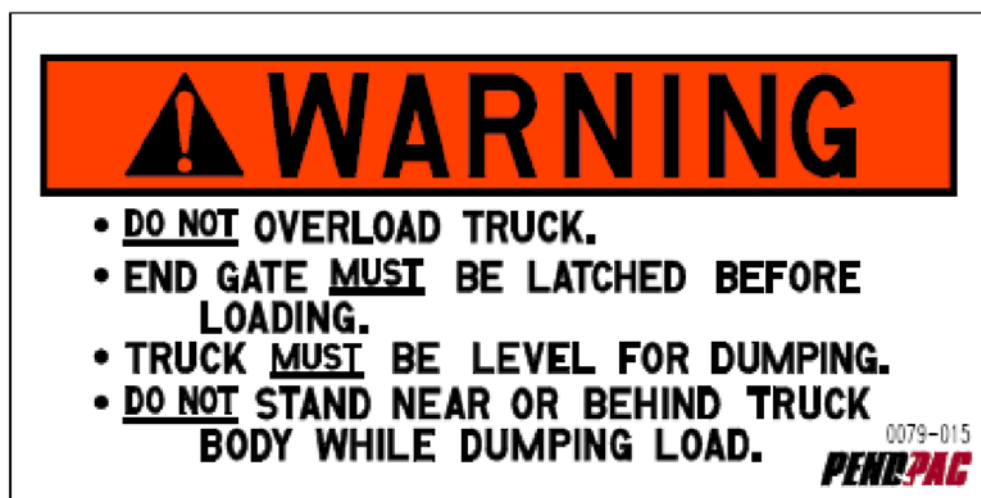
1. PROCURE NO HACER FUNCIONAR ESTA MAQUINA HASTA QUE HAYA LEIDO Y ENTENDIDO EL CONTENIDO DEL MANUAL DE OPERACION Y MANTENIMIENTO.
2. NO OPERE O HAGA FUNCIONAR LA MAQUINA EN UNA FORMA INSEGURO.
3. REVISE LA MAQUINA PARA SABER SI HAY PIEZAS ROTA, FLOJAS O EXCESIVAMENTE DESGASTADAS. NO OPERE LA MAQUINA HASTA QUE HAY SIDO APRETADAS, REPARADAS O REEMPLAZADAS.
4. ANTES DE MOVAR O HACER FUNCIONAR SU MAQUINARIA, ASEGURESE QUE EL AREA ESTE DESPEJADA.
5. ESTE ATENTO A SONIDOS EXTRAÑOS O FUERA DE LO NORMAL, SONIDOS CUANDO ESTE MOVENDO U OPERANDO LA MAQUINA, APAGUELA CUANDO ESTE EN LUGAR SEGURO Y REPORTE ESTAS ANOMALIAS A LA AUTORIDAD COMPETENTE PARA QUE TOMA LAS MEDIDAS NECESARIAS.
- * 6. MIENTRAS LA MAQUINA ESTE EN FUNCIONAMIENTO NO ENTRE A CUALQUIER AREA DEL SUJETADOR, NO INTRODUZCA CUERPOS EXTRAÑOS.
7. ESTE ATENTO A TODOS LOS MIEMBROS EN MOVIMIENTO. ESPECIALMENTE A LAS PARTES GIRATORIAS.
8. NO PERMITA QUE ROPA O CABELLO SE ENREDEN EN LA MAQUINA.
- * 9. MANTENGASE ALEJADO DE TODOS LOS MIEMBROS ELEVADOS.
10. CUANDO SUBA A LA MAQUINA, ENCENDIDA O APAGADA, ASEGURESE QUE EL ACCELERADOR ESTE LIBRE DE MATERIALES RESBALOSOS O GRASOSOS.
11. NO CARGUE ELEMENTOS QUE PUEDAN CAUSAR DANO O QUE ATOREN EL MANISMO.
12. ESTE ALERTA DE OBJETOS QUE PUEDAN VOLAR O CAER.
- * SI TIENE QUE EXPONERSE, BLOQUEE CON SEGURIDAD, APAGUE LA MAQUINA, quite LA LLAVE, LA LLAVE AUXILIAR, EL FUSIBLE PRINCIPAL ANTES DE ENTRAR FISICAMENTE O EXPONERSE A UN AREA PELIGROSA.

605-809
PENE-PAG

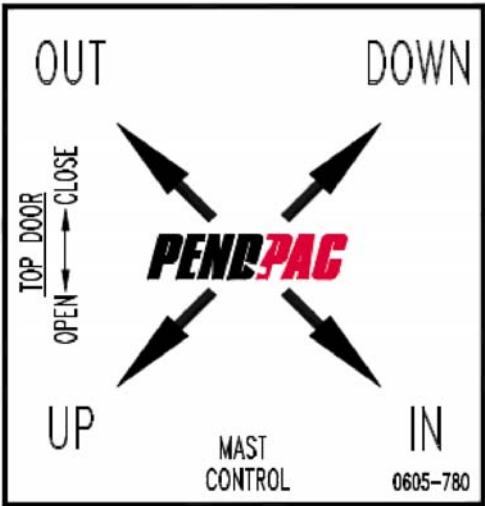
P/N 605-802



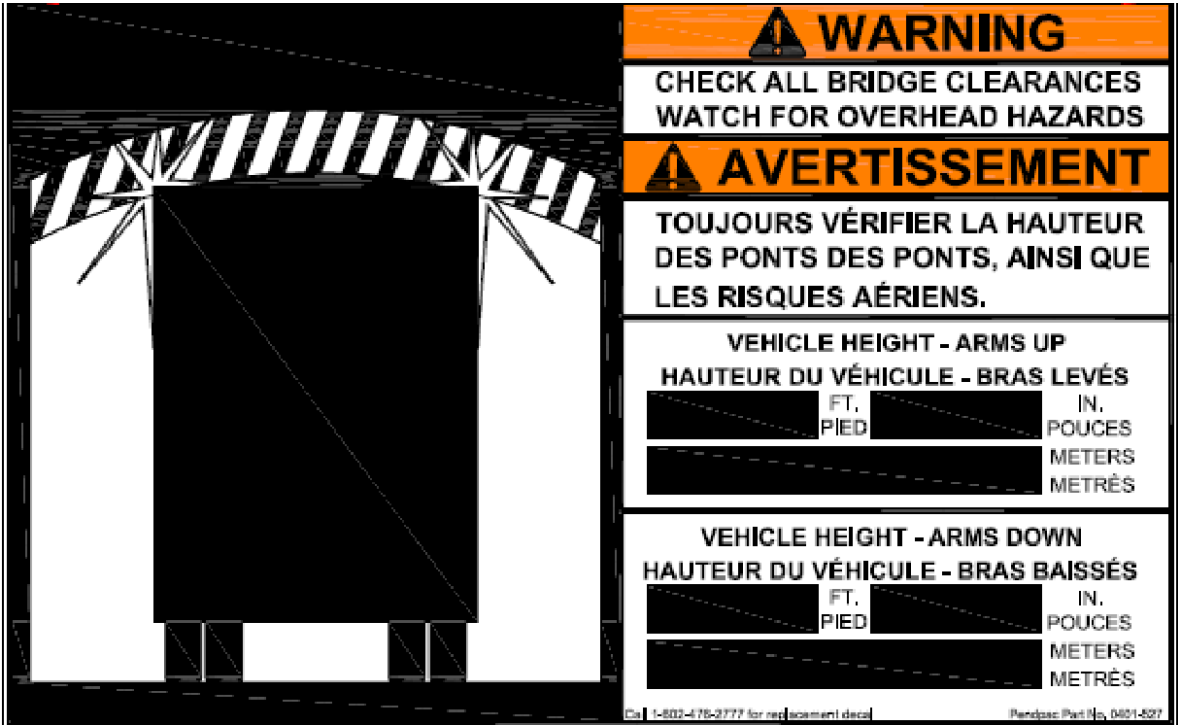
P/N 605-804



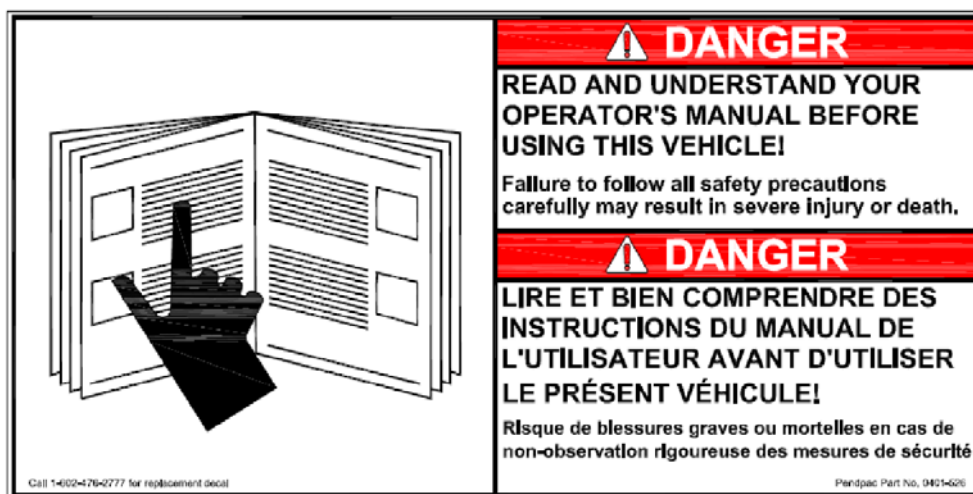
P/N 079-015



P/N 605-780



P/N 0401-527



P/N 0401-526

Decals on Battery Box



P/N 0401-541

Operating Safely

Prior to operating the SPRINTER™ 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 box” on page 35.

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.

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



Backup Alarm



Located at the rear of the chassis, the backup alarm emits an audible warning whenever the transmission is in “reverse” or the tailgate is ajar or opened.

Rear Vision Camera (optional)



A camera can be mounted to the tailgate, sending a live image of the view behind the truck to the in-cab mounted monitor. The monitor can be set to either come on in reverse only, or to be on continuously.

Global Motion Sensors (optional)

The global motion sensors are an optional feature that can be installed on the tailgate of your SPRINTER™. These 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.

Tailgate Safety Locks

The tailgate locks are located on both sides of the body rear ends. 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.**

Figure 2-3 Tailgate safety lock in removed position



The tailgate locks (see Figure 2-3) must be secured unless you are:

- ♦ unloading refuse
- ♦ servicing the tailgate

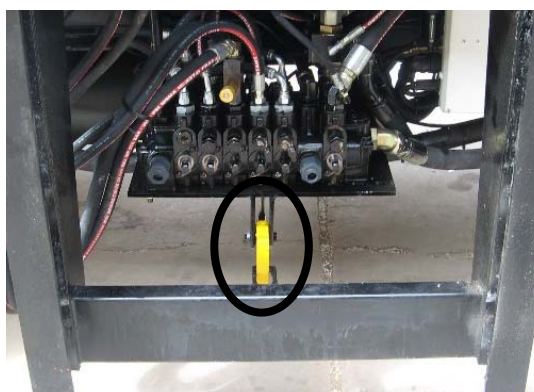
IMPORTANT: *Before operating the SPRINTER™ Automated Side Loader, secure both tailgate locks.*

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

Mast Lock (optional)

The SPRINTER™ may be equipped with an automatic mast lock. This lock is designed to automatically lock the mast at all times except during loading. It prevents the mast from extending unintentionally.

Figure 2-4 Mast lock in engaged position



To SET the lock:

1. RETRACT the mast to the 'HOME' position (slide retracted fully; see Figure 2-5).
2. ENSURE the hydraulic pump is OFF. The mast lock should lock automatically.
3. PLACE the vehicle in PARK and SET the 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 mast lock is SET (the lock is located behind the mast, under the valve block).

To RELEASE the lock:

1. PLACE the vehicle in PARK and SET the 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 mast lock should unlock automatically.
4. EXIT the cab and ENSURE that the mast lock is RELEASED.

Figure 2-5 Slide retracted and in “HOME” position



Tailgate Safety Props

The tailgate safety props are a standard safety feature on the SPRINTER™ (see Figure 2-6). 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.

Figure 2-6 Tailgate safety prop



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 2-3).
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 31.

Fire Extinguisher (optional)



If provided, the fire extinguisher is located in the cab of the vehicle.

First Aid Kit (optional)

If provided, the first aid kit is located in the cab of the vehicle for quick access.



Environmental Spill Kit (optional)

If provided, the environmental spill kit supplied in an orange PVC bag is found in the cab of the vehicle.

Tailgate Open Buzzer

An audible warning is transmitted by the control box whenever the tailgate is not completely closed.

Amber Pack Indicator Lamp

An amber Pack indicator lamp, located on the in-cab control box, illuminates to warn the operator that the packing mode is active.

Amber Retract Indicator Lamp

An amber Retract indicator lamp, located on the in-cab control box, illuminates to warn the operator that the packer is retracting.

Red Tailgate Indicator Lamp

A red Tailgate indicator lamp, located on the in-cab control box, illuminates to warn the operator that the tailgate is open.

Red Access Door Indicator Lamp

A red Access Door indicator lamp, located on the in-cab control box, illuminates to warn the operator that the side access door is open.

Safety Interlock Tests

Your SPRINTER™ is equipped with a number of safety interlock functions that are programmed into the electronic control unit (ECU). Testing of all interlock functions should become an integral part of your daily inspection as an operator.

Successful completion of these tests ensures that your unit is safe to operate.

IMPORTANT: If any of these tests fail, do not operate your vehicle until it has been repaired.

Test: Pump Locked Out by Access Door Not Closed

NOTE: Your SPRINTER™ unit has one hinged side access door.

The access door triggers a proximity switch whenever the door is closed. The hydraulic pump bypasses to the reservoir whenever the proximity switch is not triggered (when the door is open), preventing operation of most of the hydraulic controls.

IMPORTANT: Do not enter the body while the vehicle is running; injury or death may occur. Refer to "Lockout/Tagout Procedure" on page 31.

For this test, proceed as follows:

1. With the hydraulic pump 'on', open the side access door.
2. The red illuminated 'ACCESS DOOR OPEN' warning lamp should be activated on the control box.
3. Verify that all hydraulic functions have been rendered inoperative by activating one of the controls, such as the tailgate control.
4. If hydraulic functions are still active, refer to the *Proximity Switches* section in the *Maintenance Manual*.

NOTE: When the engine RPM reaches 1800, the hydraulic pump gets automatically disengaged. This kick-out feature is controlled by the J1939 bus.

Test: Eject Function Locked Out by Tailgate Locking Mechanism

The tailgate locking mechanism triggers a proximity switch whenever it is locked. This proximity switch, when not triggered, allows the 'Eject' function. This feature is included to prevent ejecting against the tailgate, which may cause damage to the tailgate.

For this test, proceed as follows:

1. Lock the tailgate locking mechanism.
The tailgate is fully closed and locked.
2. Activate the 'Eject' function.
The packing panel should not move into the body area.
3. If the packing panel moves when the 'Eject' function is activated, refer to the *Proximity Switches* section in the *Maintenance Manual*.

Test: Mast Lifting Function Locked Out by Packer Panel not Fully Retracted

When the packer panel is fully retracted, it triggers a proximity switch that is located on the lower right side of the body front. This switch, when triggered, allows the mast lifting function of the SPRINTER™. If the packer panel is not fully retracted, the mast lifting function cannot be activated. This interlock prevents dumping refuse behind the packer panel.

For this test, proceed as follows:

1. Move the packer away from its home position by rotating the packer button on the control box to the left.
2. Activate the 'Mast Lifting' function.
This function should not be operative.
3. If the 'Mast Lifting' function is still operative, refer to the *Proximity Switches* section in the *Maintenance Manual*.

Test: Mast Lifting Function Locked Out by Hopper Cover not Fully Retracted (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 container.
3. If the dump cycle completes, notify your maintenance supervisor immediately.

Warning Lamp/Buzzer Tests

Distinct positions of moving body parts, such as the packer panel and tailgate, will trigger either the amber warning lamp, the red danger lamp, the in-cab buzzer or the chassis backup alarm. These warnings serve to alert the operator that a dangerous condition exists, forcing him to pay close attention to how the unit is operated in order to prevent damage or serious injury. The warning indicators are:

Table 1 Warning buzzers

Action	Buzzer	Chassis Backup Alarm
Tailgate Ajar	Yes	Yes
Access Door Open	No	No

Table 2 Warning lamps

Action	Amber Caution	Red Danger	Green Lamp	White Lamp
Front Pump On			Yes	
Rear Pump On (optional)			Yes	
Mast Able				Yes
Access Door Open		Yes		
Tailgate Open		Yes		
Pack	Yes			
Retract	Yes			

Lockout/Tagout Procedure

The lockout/tagout procedure should be followed whenever you are inspecting, cleaning or repairing your SPRINTER™ unit.

Figure 2-7 Lockout/tagout tags



IMPORTANT: Failure to follow the lockout/tagout procedure may result in serious injury or death. Prior to performing work under the tailgate, it is necessary to set the tailgate props. See *Tailgate Safety Props* on page 26.

The following is the lockout/tagout procedure:

1. Set the chassis parking brake.
2. Turn off all hydraulic pumps by pressing the Emergency Stop button (see Figure 3-3).
3. Activate one of the hydraulic controls to relieve any residual pressure in the system.
4. Turn off engine, remove keys from the ignition and store the keys in a safe, controlled area. It is recommended that you keep the keys on your person.
5. Place an Out-of-Service tag (see Figure 2-7) on the steering wheel using a non-reusable fastener and place an Out-of-Service sign in the front window.
6. Turn off the truck disconnect switch (see Figure 2-8).

Figure 2-8 Truck disconnect switch

7. Chock the wheels.

Shut Down Procedure

If your SPRINTER™ unit is parked for an extended period of time, follow the chassis manufacturer's shutdown procedure and ensure that their maintenance requirements are met.

Also, apply the following procedure:

1. Park your SPRINTER™ unit on hard level ground.
2. Apply the parking brake.
3. Make sure that all moving parts (tailgate, packer panel, mast, etc.) are in their "home" position.
4. Turn off the hydraulic pump by pressing the Emergency Stop button (see Figure 3-3).
5. Turn off all electrical controls.
6. Turn off the engine.
7. Turn off the truck disconnect switch (see Figure 2-8).

Prior to Start Up

Before starting the SPRINTER™, ensure that no system will engage and begin to operate as you are starting the engine. All electrical controls should be turned off and the hydraulic pump disengaged.

The main valve on the hydraulic suction line should be open (see Figure 2-9).

Figure 2-9 Main valve on suction line



Cleanliness

Cleanliness is part of safety. Ensure that the equipment works properly by removing any piles of compacted waste that may cause obstruction to the movement of the packer blade after each unloading.

Also, clean all truck lights and safety labels so the surrounding pedestrians and drivers will be aware of the truck at all times.

If the truck is equipped with cameras, make sure their lenses are clean.

Right Side Driving Position

The operator must follow the chassis manufacturer's recommendations and procedures when changing driving side.

Also, be very cautious when driving on the right seat.

Figure 2-10 Driving side switch



3

Controls and Indicators

The SPRINTER™ has a series of controls and indicators that allows easier operation of the different functions that come with the vehicle. These controls and indicators are located in the cab. The following is a description of each one of them.

Parking Brake

The parking brake, located on the dashboard, must be used every time the SPRINTER™ is stopped on idle position other than the regular traffic stops.

Figure 3-1 Parking brake



In-Cab Control box

Figure 3-2 In-cab control box



The in-cab control box is located in the middle of the cab for easy access during waste collection and operation.

The *In-Cab Control Box* section provides an overview of the controls and indicators found on the SPRINTER™ with some optional features. The layout of the control box may change depending on features installed on the vehicle.

IMPORTANT: It is imperative that the operator familiarize himself with the layout of the control box and all the controls required for the operation of the SPRINTER™.

Emergency Stop Button/Pump Switch

Figure 3-3 Emergency stop button/Pump switch



The red Emergency Stop Button will stop all hydraulic body functions.

Pressing the red button will stop the packer, the lifting mast and the tailgate at the position where they are. This button has to be manually pulled back to reactivate these functions.

NOTE: The Emergency Stop Button is also used to turn on/off all pumps installed on the SPRINTER™.

Auto-Pack Switch

Figure 3-4 Auto-pack switch



This switch controls the automatic pack cycle. Depress the switch and release to initiate the automatic pack cycle. In manual mode, this switch will extend the packer (tailgate must be open).

NOTE: The amber Pack warning lamp, located on the right-hand side of the control box, will illuminate when in auto-pack cycle.

Reverse Fender Light Switch (optional)

Figure 3-5 Reverse fender light switch



This switch turns on/off reverse fender lights if installed on your SPRINTER™ unit.

- ♦ Press the upper part of the switch to turn on reverse fender lights.
- ♦ Press the lower part of the switch to turn off reverse fender lights.

Work Light Switch (optional)

Figure 3-6 Work light switch



This switch turns on/off work lights if installed on your SPRINTER™ unit.

- ◆ Press the upper part of the switch to turn on work lights.
- ◆ Press the lower part of the switch to turn off work lights.

Strobe Light Switch (optional)

Figure 3-7 Strobe light switch



This switch turns on/off the strobe light if installed on your SPRINTER™ unit.

- ◆ Press the upper part of the switch to turn on the strobe light.
- ◆ Press the lower part of the switch to turn off the strobe light.

Packer Switch

Figure 3-8 Packer switch



This switch is used both to move the packer blade forward when you are packing or ejecting a load and to move it backward to its home position after packing and ejecting.

- ♦ Turn the switch to the left to extend the packer blade.
- ♦ Turn the switch to the right to retract the packer blade.

IMPORTANT: Before packing a load, make sure the tailgate is closed and locked.

NOTE: When the packer blade starts moving forward, waste collection is stopped and will resume only when the packer returns to its home position.

Tailgate Switch

Figure 3-9 Tailgate switch



This switch is used to open and close the tailgate.

- ♦ Turn the switch to the left to lower the tailgate.
- ♦ Turn the switch to the right to raise the tailgate.

IMPORTANT: Before packing a load, make sure the tailgate is closed and locked.

NOTE: Turning this switch to the right will unlock and raise the tailgate. Turning it to the left will lower and lock the tailgate.

Rear Pump Indicator Lamp (optional)

Figure 3-10 Rear pump indicator lamp



If a rear pump is installed on your SPRINTER™ unit, this green indicator lamp illuminates when pump is engaged.

Front Pump Indicator Lamp

Figure 3-11 Front pump indicator lamp



This green indicator lamp illuminates when the front pump is engaged.

Mast Enable Indicator Lamp

Figure 3-12 Mast enable indicator lamp



This white indicator lamp illuminates when the mast is enabled.

NOTE: To operate mast, packer must be at rest and tailgate must be closed. Also, if your SPRINTER™ unit is fitted with the optional top cover, it has to be open for the mast to be enabled.

Access Door Open Warning Lamp

Figure 3-13 Access door open warning lamp



This red lamp will illuminate whenever the side access door is open.

Tailgate Open Warning Lamp

Figure 3-14 Tailgate open warning lamp



This red lamp will illuminate whenever the tailgate is open.

Pack Caution Lamp

Figure 3-15 Pack caution lamp



This amber lamp will illuminate whenever packing is carried out.

Retract Caution Lamp

Figure 3-16 Retract caution lamp



This amber lamp will illuminate whenever the packer retracts.

Joysticks

Dual Lever Joystick

Figure 3-17 In-cab dual lever joystick



This pneumatic joystick uses two levers to control the mast: the right-hand lever is used to control the up/down movement of the mast while the left-hand lever is used to control the in/out movement of the mast.

While these are separate controls, you may still perform two functions at the same time. For example, you can lower the mast and extend it simultaneously.

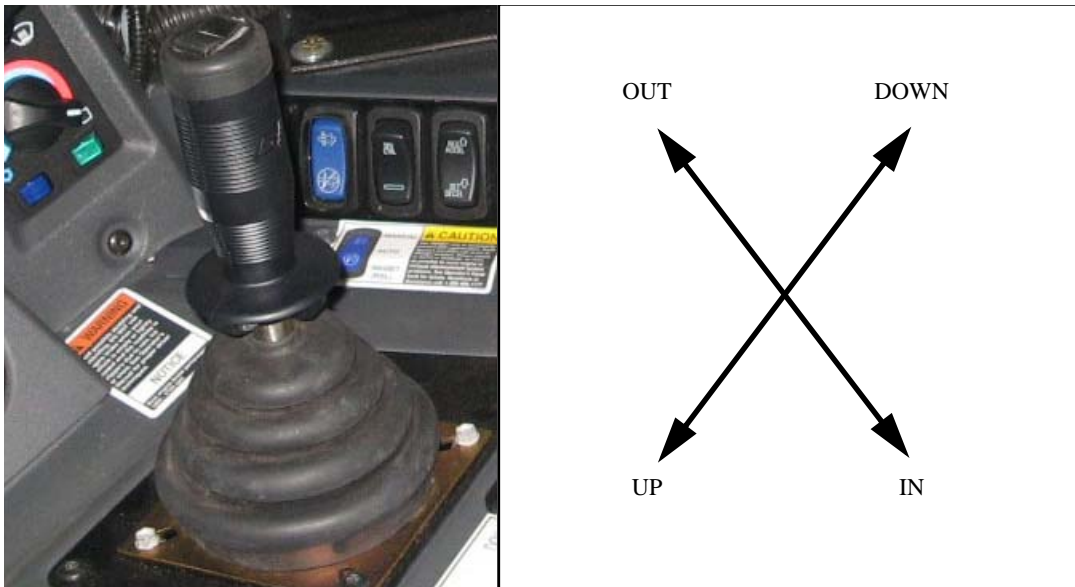
The joystick can be located either on the console at the center of the cab or near the right-hand side door.

- ♦ Shift the up/down lever backwards to raise the mast.
- ♦ Shift the up/down lever forwards to lower the mast.
- ♦ Shift the in/out lever backwards to move the mast in towards the truck.
- ♦ Shift the in/out lever forwards to move the mast away from the truck.

Single Lever Joystick (optional)

This pneumatic joystick controls the up/down, in/out movements of the mast. It operates on 45° angles.

Figure 3-18 In-cab single lever joystick



- ♦ Move the joystick 45° to the upper left to extend the mast.
- ♦ Move the joystick 45° to the lower right to retract the mast.
- ♦ Move the joystick 45° to the upper right to lower the mast.
- ♦ Move the joystick 45° to the lower left to raise the mast.

Grabber-Activating Device (optional)

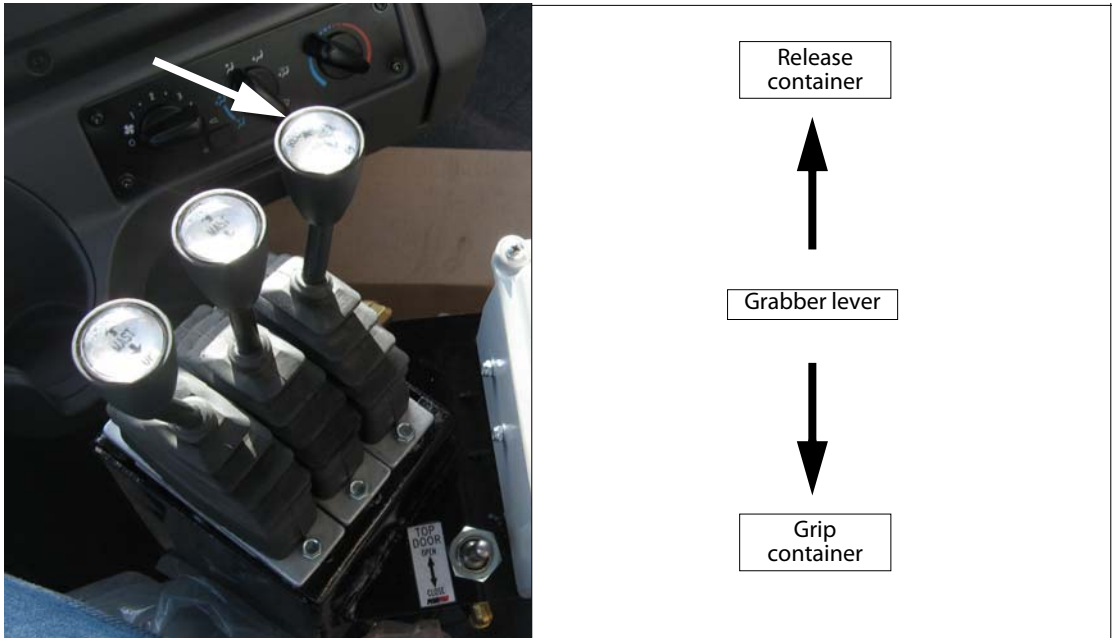
Your SPRINTER™ unit may be equipped with a grabber-activating device to control the mast grabber. It has two functions: to grip containers and to release them.

This optional device comes in two types:

Type 1: Control Lever

This lever is usually located next to the mast controls.

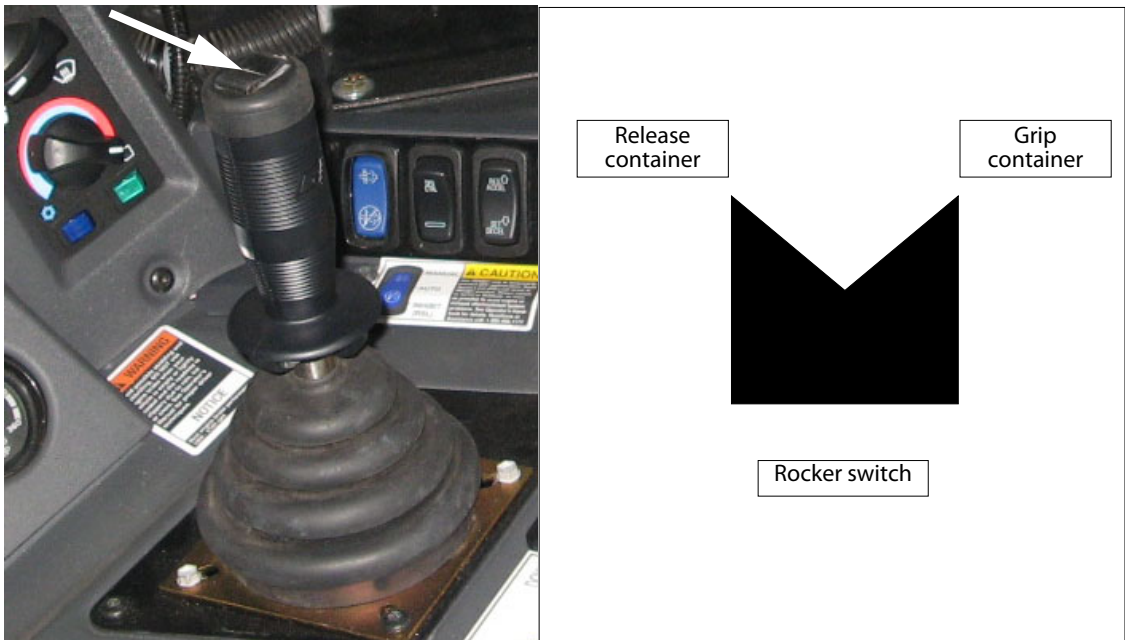
Figure 3-19 Grabber control lever



Type 2: Rocker Switch

This switch is found on top of a single lever joystick.

Figure 3-20 Grabber rocker switch



Top Door (optional)

If your SPRINTER™ unit is equipped with a top door covering the hopper opening, it has a toggle switch to activate it. This switch is usually located between the mast levers/joystick and the control box.

- ♦ Move the toggle switch forward to open the optional top door.
- ♦ Move the toggle switch backward to close the optional top door.

NOTE: The optional top door must be open for the lifting mast to be enabled.

Figure 3-21 Top door switch



4

Operating the SPRINTER™

In this section you will find operating procedures that relate to the use of the SPRINTER™ and its equipment.

NOTE: The SPRINTER™ unit is mounted on various truck chassis. Some of the following information is general information which covers the operation of all equipment of our manufacturer. For operating and servicing information for the truck chassis, you should refer to the manual furnished by the truck chassis manufacturer.

NOTE: When your compactor is equipped with an auxiliary diesel engine, gasoline engine, or other optional equipment, refer to the manufacturer's manual for service and operating procedures for that equipment.

Prior to Vehicle Operation

Prior to operating your SPRINTER™ unit, 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 considered optional equipment and therefore may not be installed on your vehicle.

Prior to using the SPRINTER™, operators are required to perform a daily pre-trip inspection.

Review the Operator Pre-Trip Inspection sections on page 48.

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

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

Remember to obey all speed restrictions and road regulations.

Warning! Improper use of the truck, including the packer and the lifting mast, can result in serious injury.



Qualified Operators Only

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

Operator Pre-Trip Inspection: Prior to Starting the Vehicle

The following inspection should be completed prior to starting the engine. Ensure the parking brake is set before performing the inspection.

- ♦ Check cleanliness of the vehicle, paying close attention to decals, mirrors, windows and lights.
- ♦ Check that safety equipment is present (fire extinguisher, first aid kit, flare kit, etc.).
- ♦ Ensure that all body attachment points are tight and free of cracks.
- ♦ Check the entire body for unusual wear, distortion, cracking or leaking.
- ♦ Ensure that the hydraulic oil is at the proper level in the reservoir.
- ♦ Ensure all hydraulic reservoir valves, such as the suction line ball valve, are open.
- ♦ Check all hydraulic cylinders for leaks.
- ♦ Check all hydraulic cylinder mounting pins to ensure they are secure.
- ♦ Ensure that the tailgate is closed and locked.
- ♦ Make sure both tailgate safety locks are in place.
- ♦ Check tires, engine oil level, transmission oil level, power steering oil level, radiator coolant level, battery electrolyte level, air cleaners, and auxiliary engine oil level.
- ♦ Visually check the following for leaks or damage: engines, transmission, hydraulic tank and hoses, cooling system, fuel tanks, differential, and brake system.

Caution! Do not fill fuel tanks with engine running or hot. Fill carefully because spilled fuel can cause fire.



Operator Pre-Trip Inspection: After Starting the Vehicle

After starting the vehicle, the following inspection should be completed prior to leaving the yard. Ensure the parking brake is set before performing the inspection.

- ♦ Engage the hydraulic pump by pulling up the red Emergency Stop button (see Figure 3-3).

- ♦ Operate all body controls to ensure they function properly (tailgate, packer, etc.).
- ♦ Ensure that all interlocks work properly (see pages 28 to 30).
- ♦ Check all lights to ensure they function properly, including signal lamps, head lamps, marker lamps, brake lamps and work lamps.
- ♦ Check engine oil pressure and temperature.
- ♦ Check transmission temperature.
- ♦ Check air pressure (minimum: 90 PSI), brake pedal pressure, horn and back-up alarm.
- ♦ Check voltmeter, ampmeter, and tachometer.
- ♦ Verify if the lifting mast works properly.

Caution! Be sure of adequate ventilation when unit is being operated in building or other enclosures.



NOTE: The safety of the operator and of other personnel and the efficient operation of the unit depend on the performance of all items in the checklist above. Service on the unit should be done before moving if inspection indicates the need for service.

Caution! Make sure the lifting mast is securely fixed to the body before driving the vehicle.



Starting the Vehicle

To start the SPRINTER™:

1. Before starting the engine, check the following items:
 - Transmission shifter is on neutral
 - Parking brake is applied
 - Hydraulic system is off (red Emergency Stop button must be pressed, see Figure 3-3).
2. Open the chassis manufacturer's manual and start the vehicle as stated therein.
3. Build air pressure to 75 PSI.
4. Allow engine to idle.

5. Switch ON the hydraulic pump to engage the hydraulic system by pulling up the red Emergency Stop button (see Figure 3-3).

Caution!

Do not engage hydraulic pump if engine is over 1000 RPM.
Do not operate over 2000 RPM.

6. Turn on all light switches.
7. Report any defective system to the maintenance personnel.

IMPORTANT: Do not “road” with pump engaged. Pump may be disengaged by pressing the red Emergency Stop button.

IMPORTANT: Even if the pump is disengaged, the pump is always turning whatever the engine RPM. it is very important not to let the pump run dry or without oil. Otherwise, the pump will be seriously damaged or even destroyed.

Stopping the Engine

NOTE: An engine that has been operating under load conditions should idle for five minutes before stopping. This allows the engine time to cool evenly and will add to service life.

To stop the engine:

1. Be sure lifting mast, packer and tailgate are in their “home” position.
 2. Turn key switch to “kill” position. Hold until engine dies.
 3. Return key switch to “off” position.
-

NOTE: For key, button, and units without “kill” positions, the “start” and “kill” positions are reversed.

Mast Operation

Caution! Never attempt to operate machine or attachment except when seated in the operator's seat.



Warning! All personnel operating or maintaining the lifting mast must be trained in all safety procedures described in this manual. Careless or improper use of this equipment can result in personal injury or death.



Picking up Containers

To pick up containers, do the following:

1. Switch ON the hydraulic pump to engage the hydraulic system by pulling up the red Emergency Stop button (see Figure 3-3).
2. Position truck with mast attachment in alignment with container hooks.

IMPORTANT: To enable mast functions, top door must be open, packer must be at rest, and tailgate must be closed and locked.

3. Move mast to container.
In/out lever position: FORWARD-OUT or joystick position: OUT (see *Joysticks* on page 43).
4. Lift container 8" to 12" for "NO DRAG" clearance.
Up/down lever position: BACK-UP or joystick position: UP (see *Joysticks* on page 43).
5. Return mast to body.
In/out lever position: BACK-IN or joystick position: IN (see *Joysticks* on page 43).
6. Dump container.
Up/down lever position: BACK-UP or joystick position: UP (see *Joysticks* on page 43).
7. Lower container, stopping to allow for "NO DRAG" clearance.
Up/down lever position: FORWARD-DOWN or joystick position: DOWN (see *Joysticks* on page 43).
8. Move mast out to replace container in proper location.
In/out lever position: FORWARD-OUT or joystick position: OUT (see *Joysticks* on page 43).
9. Lower mast to release container.
Up/down lever position: FORWARD-DOWN or joystick position: DOWN (see *Joysticks* on page 43).
10. Return mast to body.
In/out lever position: BACK-IN or joystick position: IN (see *Joysticks* on page 43).

11. Compact load (see *Packer Operation* below).
12. Move to next pickup location.

NOTE: If your SPRINTER™ unit has a grabber attached to the mast, see *Grabber-Activating Device (optional)* on page 44 for information on how to use it.

Packer Operation

Warning! Thoroughly read and understand the safety and pre-operating sections of this manual.



Packing operation is not always necessary, especially when the body is relatively empty. As a matter of fact, an empty body will hold approximately 8 cubic yards of waste before packing is necessary. As the body load increases, so does the frequency of packing operation.

To pack waste:

1. Start engine.
2. Allow engine to idle.
3. Switch ON the hydraulic pump to engage the hydraulic system by pulling up the red Emergency Stop button (see Figure 3-3).
4. Start packing operation with chassis engine at idle speed.
5. Rotate the Packer selector switch to “Extend” (see Figure 3-8).
6. Momentarily press the Pack Cycle button on the lower left-hand side of the control box (see Figure 3-4).
7. Increase engine RPM for faster compaction.

Warning! Operate only in the safe range recommended for your power source.



Packing operation is automatic. The packer blade will travel a safe distance past the hopper opening and return.

You may cancel the packing operation at any time by pressing the red Emergency Stop button on the control box (see Figure 3-3). To retract the packer blade to its “home” position, rotate the Packer selector switch to “Retract” (see Figure 3-8).

Warning! Do not operate packer with container in dump position.



You will know that the body is full when this condition occurs: the packer panel will no longer complete a pack cycle and will begin to return off of the pressure switch.

Unloading Packed Body Contents

Once you have arrived at the landfill, do the following:

1. Choose a spot to unload that will allow for the tailgate to be opened without contacting anything.
2. Ensure that your parking brake is set.
3. Turn on the hydraulic pump by pulling up the red Emergency Stop button on the control box (see Figure 3-3). Start unload operation with chassis engine at idle speed.
4. Check tailgate area to be sure it is clear.
5. Remove manual locks.
6. Unlock and open tailgate by turning the Tailgate selector switch to the “Up” position (see Figure 3-9).
7. Rotate the Packer selector switch (see Figure 3-8) to the “Extend” position and hold.
8. Increase power source speed.
9. When pump loads, return Packer selector switch to the neutral position (see Figure 3-8). The packer blade will stay at the rear of the body.
10. Push the red Emergency Stop button.
11. Clean the packer blade and hood.
12. Clean in front of the packer blade.
13. Pull up the red Emergency Stop button.
14. Rotate the Packer selector switch to the “Retract” position and hold (see Figure 3-8).
15. When the packer blade is retracted to its “home” position, return the Packer selector switch to the neutral position (see Figure 3-8).
16. Close and lock tailgate by turning the Tailgate selector switch to the “Down” position (see Figure 3-9).
17. Once tailgate is locked, push the red Emergency Stop button.

18. Engage manual locks.

Warning! Damage will occur to the tailgate and packer if the tailgate is not in a full open position when unloading. Do not close the tailgate with the packer extended.



Opening Tailgate

To fully open the tailgate:

1. Set truck brake.
2. Engage hydraulic pump by pulling up the red Emergency Stop button (see Figure 3-3).
3. Check tailgate area for people and obstacles.
4. Rotate Tailgate selector switch (see Figure 3-9) to the “Up” position and hold until the tailgate is in a full up position. Tailgate unlocking is automatic.

NOTE: For load ejection, see *Unloading Packed Body Contents* on page 53.

5. Rotate Tailgate selector switch to the “Down” position and hold until the tailgate is in a full down position and locked (see Figure 3-9).
6. Press the red Emergency Stop button.

Warning! Be sure all persons are clear of tailgate before opening and closing.



Do not walk or stand under tailgate.

Use caution at the dump site: loaded equipment should always have right-of-way.

Warning! Side access door must be closed for unit to activate. Bodily injury will result if proximity switches are de-activated.



IMPORTANT: Someone should direct backing and check area to see that it is clear.

Cleaning Area between Packer and Front Wall

The area between the packer blade and the front wall (Figure 4-2) must be cleaned daily, or more often, depending on the amount of garbage accumulated behind the packer blade. The best time to clean this area is at the landfill after unloading.

To clean the area between the packer blade and the front wall, do the following:

1. Set the chassis parking brake.
2. Engage the hydraulic pump by pulling up the red Emergency Stop button (see Figure 3-3).
3. Activate the packer blade by rotating the Packer selector switch (see Figure 3-8) to “Extend” and holding.
4. Once the packer blade has moved rearward about 30 inches, depress the red Emergency Stop button.
5. Complete the Lockout/Tagout procedure (see *Lockout/Tagout Procedure* on page 31).
6. Open the side access door and enter the area between the packer blade and the front wall.

Figure 4-1 Side access door



7. Remove most of the garbage trapped behind the packer blade. Garbage trapped in the front bulkhead and slide rail channels must also be removed.

NOTE: Failure to clean this area can cause damage to the pack cylinder and pack cylinder hoses.

Figure 4-2 Area between packer blade and front wall

8. While inside the body, inspect the pack cylinder, hoses and pack cylinder pins for any abnormalities and report these to your supervisor.
9. Exit the body and close the side access door.

Cautionary Notes for Maintenance Personnel

With your safety in mind, please note that it is imperative that **ONLY QUALIFIED PERSONNEL** (who are knowledgeable with the operations of this vehicle) perform service to the hydraulic, electrical and pneumatic systems.

Please read carefully the Safety Information, Controls and Operation sections within this manual prior to attempting any maintenance to your SPRINTER™ unit.

Initial Lubrication

Prior to first using your new SPRINTER™, it is necessary to complete a full lube job. All grease points are shown on the decal affixed to the body side wall. Do not assume that your new unit has been lubricated to a sufficient level that it is ready for work.

Please read the Safety, Controls and Operation sections of this manual prior to performing any service work on your new SPRINTER™ unit.

Hydraulic Cylinders

All SPRINTER™ hydraulic cylinders have been stamped with the body serial number. Since Labrie Enviroquip Group employs a number of cylinder suppliers, if replacement cylinders or seal kits are required, please quote the body serial number when ordering.

Hydraulic Oil

The most crucial component of the hydraulic system is the hydraulic oil. It transports damaging contaminants to filtering systems, lubricates and provides anti-wear additives to protect against component corrosion.

Regular oil changes are vital to the longevity of hydraulic system components. Operational performance, load and environmental conditions are variables that determine the frequency of hydraulic oil changes.

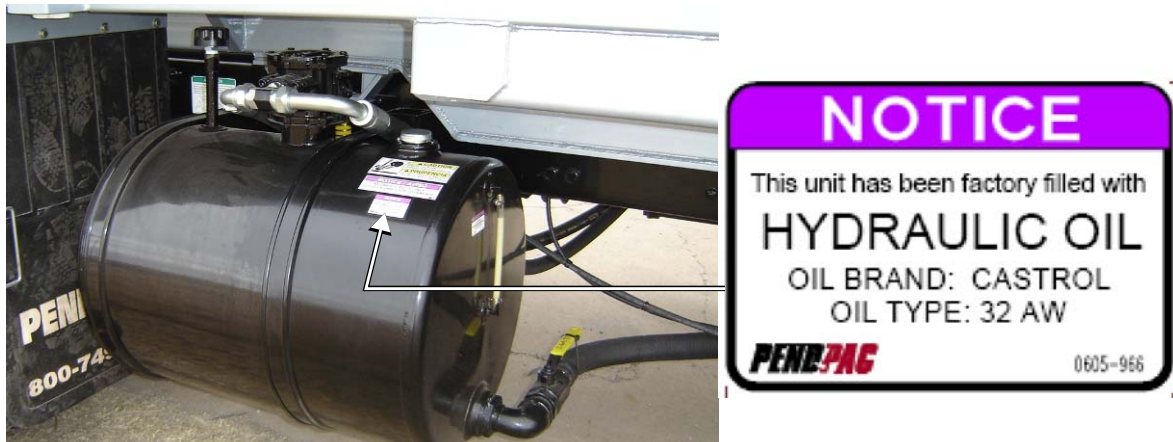
NOTE: We recommend that the hydraulic oil be replaced every 1000 hours. Following the failure of any major hydraulic component, the oil should be filtered through an external filtration system capable of cleaning the oil to a contamination level equivalent to ISO 4406 18/15/13.

Oil Identification

An identification decal, located on the hydraulic tank (Figure 4-3), specifies the manufacturer's brand and viscosity of hydraulic oil provided with your SPRINTER™. When oil replacement becomes necessary, other equivalent oil types can be substituted, provided they meet the existing oil's specifications. These specifications are listed below:

♦ Viscosity, cSt @ 40°C	32
♦ Viscosity, cSt @ 100°C	5.5
♦ Viscosity, SUS @ 100°F	171
♦ Viscosity, SUS @ 210°F	45
♦ Viscosity Index	100
♦ Pour Point, °F	-33

Figure 4-3 Oil identification decal



Hydraulic Reservoir

Your SPRINTER™ unit is equipped with a hydraulic reservoir with a capacity of 55 gallons. It is baffled internally to separate the inlet from the outlet in order to allow entrained air to escape. The reservoir oil volume changes as hydraulic functions are operated. To compensate for the volume change, air either enters or is expelled through the breather cap. Located on top of the hydraulic reservoir, the breather cap maintains 5 psi of air pressure in the reservoir at all times once the oil heats up. Air pressure above 5 psi is expelled into the atmosphere. The positive tank pressure helps push oil into the hydraulic pump inlet to prevent cavitation.

Figure 4-4 Hydraulic reservoir



Caution!



Always remove the breather cap and filler cap slowly to let the internal air pressure dissipate in order to avoid serious injury.

A ball valve is provided on the 2-1/2" diameter reservoir inlet line for maintenance purposes (Figure 4-5).

Figure 4-5 Ball valve



NOTE: It is imperative that the ball valve be open whenever the engine is running. Even though the hydraulic pump is 'off', it is still pumping oil through the bypass line back to the reservoir. Severe damage to the hydraulic pump will occur if it is operated with the ball valve closed.



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