

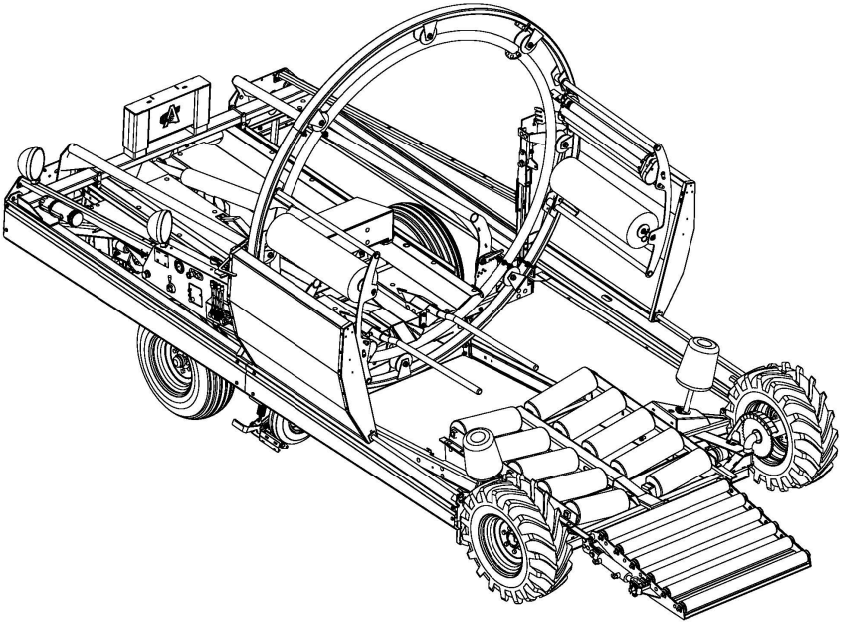
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ANDERSON



NWX660 wrapper



Operator's Manual

2011

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How to Reach Us

When contacting Anderson, please always provide us with the following information:

- **The product model and serial number;**
- Your name, address, and telephone number;
- The purchase date and the invoice number;
- The dealer name, address, telephone number and salesperson's name;
- A precise and detailed description of the problem with the equipment.

You can contact our service department at the address below:

ADDRESS : ANDERSON GROUP
 5125, rue de la Plaisance
 Chesterville (Québec)
 CANADA G0P 1J0

TELEPHONE : 1-819-382-2952

FAX : 1-819-382-2218

EMAIL : service@grpanderson.com

WEBSITE : www.grpanderson.com

Before You Start

Before you start your Anderson wrapper we strongly recommend:

- Read and understand the information in this manual;
- Follow all security measures;
- Follow the starting procedure in this manual.

NOTE : This manual contains important information concerning the proper use of your Anderson wrapper. Please give this manual to the new owner if the machine is sold or transferred.

Group Anderson Limited Warranty

The one-year warranty period will begin on the date that the new equipment is sold to the customer. If during the year following the purchase of a new machine, your Anderson equipment fails to function properly due to defective design, materials, manufacturing, or assembly, our company will repair your equipment free of charge.

- Keep your original invoice or a photocopy. Please refer to your invoice whenever you order parts, have questions about the operating procedures of your machine, or for any questions you may have concerning your warranty.
- Replacement or repair of equipment parts will be performed by the dealer or by our technician. This includes parts and labour only. All work must be preauthorized by the Anderson customer service department.
- The customer will be responsible for transporting the equipment to / from the authorized dealer.
- The dealer will describe the terms of this warranty to the customer before the retail sale and will record the date of purchase, the serial number, and the equipment description.
- To have equipment repaired under the warranty; the customer must advise his dealer as soon as possible of the problem and request that the repairs be made according to the terms of the applicable warranty.
- Understanding that it is our desire to always improve on our products, our company reserves the right to modify its machines, their characteristics, and their parts at any time without advance notice or obligation.
- In no event will Anderson be liable for any incidental or consequential damages or injuries, including but not limited to loss of profits, rental of substitute equipment, or other commercial or personal loss or damages arising as a result of a fundamental breach or breach of a fundamental term.
- Except for conditions or warranties which may not be excluded by law, the selling dealer makes no warranty of its own on any item warranted by Anderson Group unless it delivers to the purchaser a separate written warranty document specifically warranting the item. The selling dealer has no authority to make any representation or promise on behalf of Anderson or to modify the terms or limitations of this warranty in any way.

Notwithstanding the foregoing



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Warranty Policies, Procedures, & Provisions Summary

Purpose of Warranty

The fundamental responsibility of warranty is to correct defects in material and workmanship of the products sold by Group Anderson Inc. (hereafter called "Anderson"). This outline is intended to assist you in awareness of Anderson's Warranty Policies and to assure that you obtain the best service possible for your Anderson machine.

- Warranty is limited to 1-year (12months). This specified period begins on the date the new equipment is sold to the customer.
- Warranty is non-transferable in the event of resale unless the resale is through an authorized Anderson dealer.
- No warranty is extended to regular service items such as fluids, paint, tires.
- Certain parts, such as the Honda engine and battery are covered under warranties from their respective manufacturers. Details on these warranties can be obtained from your dealer.
- Warranty does not cover damage caused by harsh weather conditions or unstable ground conditions. Such as frozen parts on the equipment or performance issues on inadequate terrain.
- No warranty is issued for performance issues. Including downtime and capacity issues.

How to process Warranty :

- No warranty is issued for performance issues. Including downtime and capacity issues.
- Fill out and submit a Warranty Request Form to your authorized Anderson dealer. Be sure that the form is complete. (Ex. has serial number, list of defects, etc.)
- If the unit to receive warranty service is dealer stock, contact Anderson as soon as the defect has been identified.
- Photos may be requested by Anderson to process / determine the cause of the defect. The use of photos attached to the warranty request form will help identify the condition of the part being repaired or replaced, and thus assisting in the approval of the claim.
- The warranty work must be completed within 30 days of the reported failure, and the claim must be sent to Anderson with the appropriate documentation (Ex. Photos, list of parts needed for the repair, invoices from contracted work etc.)



Warranty Exemptions :

- Your warranty may be voided if Anderson determines that the equipment has been subjected to bad treatment or negligence, has been used inappropriately, has not received necessary maintenance, not been appropriately protected during storage, damaged by vandalism, bad weather, natural elements, collision, or an accident.
- Our warranty is void if your equipment has been modified in any way without our express authorization.
- The warranty does not cover towing expenses or service calls.

Anderson's Responsibilities

- Reimbursement for parts used in warranty repair will be credited only when the parts are purchased from Anderson, unless approved by Anderson prior to the warranty repair. Parts will be credited at the Dealer's net cost. No warranty will be allowed on parts that are past due.
- In the event that parts must be shipped from Anderson, freight will be paid by the Dealer and will be shipped by the most economical means to arrive in the shortest possible time. Air, Next Day Air, Priority and other special shipment methods requested by the Dealer will be at the Customer's expense.
- Warranty Labour Reimbursement for labour expense to the Dealer is made by payment of the Retail Labour Rate of \$65.00 CAD per hour, or as regulated by provincial statutes. Repair times will be reviewed by Anderson and may be adjusted to average repair time required by other Dealers to make similar repairs.

Other Warranty Provisions

These guidelines are to be followed when performing warranty repairs:

- All parts removed during warranty repair should be held for a period of 60 days after the Warranty Claim has been submitted to Anderson. These parts can be discarded if disposition or return request hasn't been made during this period. Parts that are returned to Anderson for which credit has not been issued can be returned upon Dealer request within 30 days of claim disposition. These parts will be discarded after the 30 day period.
- Anderson reserves the rights to deny or reverse any and all Warranty Claims for parts, labour, or miscellaneous charges when errors are found or warranty provisions are abused or fraudulent claims are submitted.

Training Program and demo aftermarket provision:

To increase dealer's expertise about Anderson's product line, we recommend that our dealers request a training or demo session. You can obtain information on this from your local representative.

About this Manual

This manual is designed to familiarize you with your new wrapper and ensure you of the safe and proper methods of use.

Disclaimer

Illustrations

The illustrations in this manual are presented as references according to the available information at the time of printing this manual. Group Anderson reserves the right to modify its machines without notice.

Engine

The NWX wrapper is equipped with a Honda Engine. It can be replaced with the optional Kubota diesel engine which will improve the performance of the wrapper. The user guide for the Honda or Kubota engine is supplied with the wrapper. It contains all of the necessary information to maintain the engine as well as the safety regulations to be respected. Before using your Anderson wrapper, take time to read the manual respective to the engine on your wrapper.

Anderson holds no responsibility for the content in the manual of the Engine.

Important Notices



Warning!

Warning messages!

Provide information which must be read to avoid damaging the wrapper.



Danger!

Danger messages!

Provide information which must be read to avoid injury to persons or animals. Not following these instructions may lead to serious injury or even death.

NOTE :

These types of notes provide additional information about the topic in which they are found.

1 Introduction

Congratulations! You have just purchased yourself an Anderson wrapper. Your wrapper is a quality piece of machinery built essentially to wrap round bales in a tube.

1.1 General presentation of the wrapper

The following illustration shows the main components of the NWX660 Wrapper.

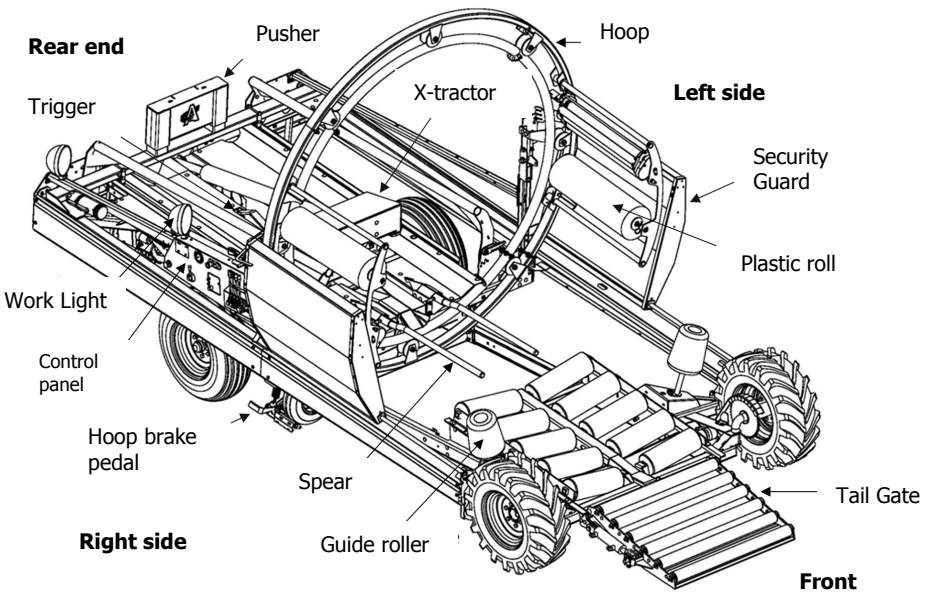


Figure 1 – Main components of an Anderson NWX660 Wrapper



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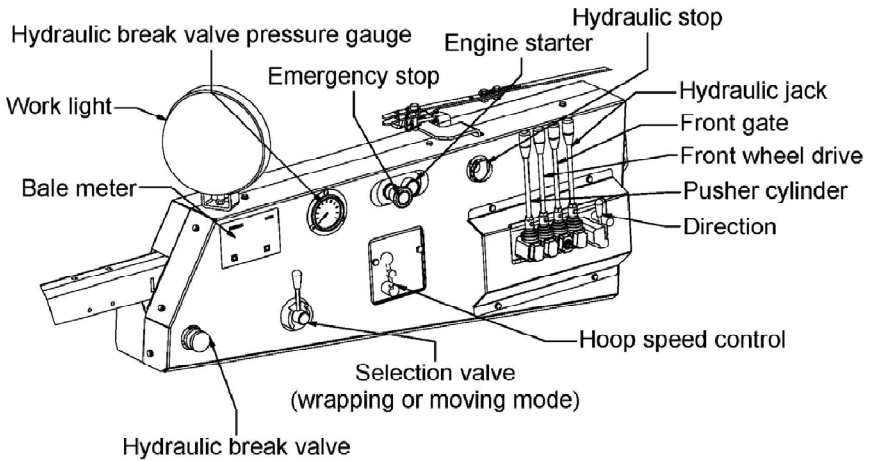


Figure 2 – Control panel

1.2 Technical Specifications

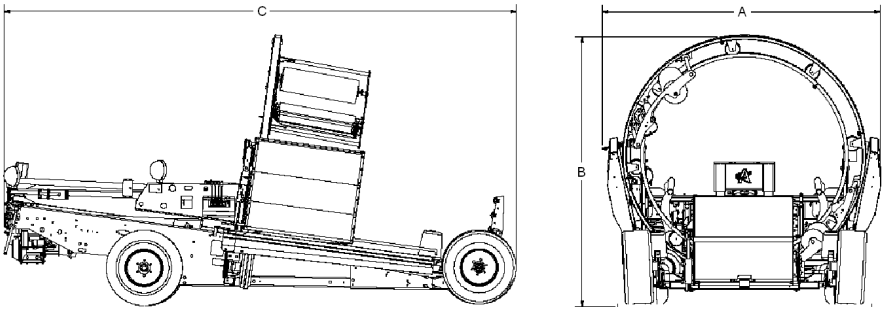


Figure 3 – Dimensions

Selection	Dimension
Width (A)	2,84m (112in)
Width in transport format	2,58m (101,5in)
Height (B)	2,87m (113in)
Length (C) (W/tailgate lifted)	5,12m (201,5in)
Length (W/tailgate lowered)	5,65m (222,5in)
Total Weight	2 180kg (4 806lbs)
Pulling weight	422kg (1 004lbs)

Table 1 – Weight and dimensions



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Product	Specification
Engine	Honda : GX 390 gas powered Kubota (optional) : OC 96 diesel powered
Wrapping capacity	120 bales/h
Bale dimensions	Length: 1,2 to 1,52m (4ft to 5ft) Diameter: 1,2 to 1,68m (48 to 66in)
Stretchers	Quantity: 2 (or option of 4) Length: 76 cm (30in)
Plastic film	Size of roll: 76 cm (30in) Stretch Capacity: 55% (40% with optional gears)
Movable distance of pusher	Up to 1,9m (75in)
Hoop	Exterior diameter : 2,58m (101,5in) Interior diameter : 2,05m (80,5in) Rotation speed : 28 RPM (max)
Hydraulic system	Type : Open Pressure : 2100 psi (max) Flow : 8 GPM (30 LPM)
Tires	Front Dimension : 29X12.5-15 NHS Recommended pressure : 30 psi Rear Dimension : 11L-15 SL Recommended pressure : 36 psi Hoop Dimension : 480/4.00-8 Recommended pressure : 45 psi

Table 2 – General specifications

1.3 Advise and recommendations for high quality silage

With the Anderson Round Bale Wrapper you have the ideal machine to make excellent silage bales. However, you must also know how and when to harvest and wrap your feed stock.

When to cut to have a quality harvest?

A good quality harvest starts with two conditions. The right amount of sugar in the plants while growing and adequate degree of humidity once they have been cut. When these conditions are combined, there is nothing left to do but to wrap quickly and remove as much of the air as possible from the bales. If you are able to do this correctly you will have excellent silage.

The quality of the raw material also influences the quality of the silage. To have good silage, it is above all necessary to harvest the plants when they possess their best nutritional values! So, forage plants must be cut when they reach their maximum rate of sugar to ferment well, and obtain their optimal level of proteins to be nourishing. Plants are considered to be at their vegetative stage at this time. For grasses (timothy grass, millet, brome grass, orchard grass, etc.) you should cut at the beginning of ear emergence or just before maturity. For legumes (alfalfa, red or white clover, lotus, etc) you are to cut when the flower is about 10% developed.

Mature crops give a better return and contain more fibers. However, once wrapped they tend to deteriorate after just a few months. Harvesting before maturity will give a great tasting crop and also allows a faster re-growth giving you a 2nd and 3rd cut.

The quality of the product also depends on the methods of harvesting and also the methods of raking or curing the hay. For example, large regular field crops produce bales that are more solid and uniform. It is also important to avoid contaminating the fodder with soil, manure, or other residues from previous harvests.

When is the best time for Baling?

After the drying period, the decision of when to bale your fodder depends above all else on the time when the amount of humidity in the cut hay has decreased just enough. You want your fodder to stay good for at least one year; the ideal level of humidity is around 50% for both grasses and legumes, with a possible range of 40% to 55%.

Two easy and effective ways to determine the level of humidity in the hay are an easy, well-known test using a microwave or humidity tester.

If there is too much water in your baled hay, the formation of butyric acid could prevent some of the fermentation necessary for conserving your silage from taking place. Such hay must be used within 3 months.

How to obtain a quality bale?

During baling, the tractor driver has a large impact on the quality of the future silage. We recommend proceeding slowly and keeping the tractor's power take-off at high rpm to obtain high-density bales. You should also ensure that your bales are firm and even. They will then



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be easier to wrap and will produce continuous bale rows that are more airtight and silage that has higher nutritional value.

When to wrap your silage bales?

It is advisable to wrap bales as soon as possible after baling because fermentation inside the bale begins as soon as it is produced. We recommend a waiting period of no longer than 12 hours, and a much shorter time period if the outside temperature is relatively high. Studies on potential heating of the hay and the changes in the pH show significant differences between the quality of the hay wrapped the same day as baling, and hay that is wrapped the following day.

2 Security

Your Anderson Wrapper was conceived to minimize the risks to the operator. However, you never should use the wrapper for anything except the use that it was designed for. This wrapper is equipped with a powerful hydraulic system, moving metal parts, and a gas engine. Misuse of the machine may cause serious injury to yourself or others.

Operator Safety

Get acquainted with the procedures of the use of the wrapper before you begin operation. Also insist that the procedures in this manual are followed by all who use your wrapper. You should be sure that all people using your wrapper are:

- Responsible people that you trust;
- Have received the necessary training to operate the wrapper in a safe way;
- Know all emergency telephone numbers;
- Are aware of the location of your first aid kit.

Use

Only use the wrapper to wrap bales. The wrapper can wrap bales of 1.2 up to 1.52 meters (4ft to 5ft) in length, and a diameter of 1.68m (66in) and less. Avoid all other uses; also the machine is not to be used to transport anything (such as people or livestock).

Security perimeter

Do not allow yourself to be disturbed during the operation of this machine. When you are operating this wrapper you must be the only person around the machine.



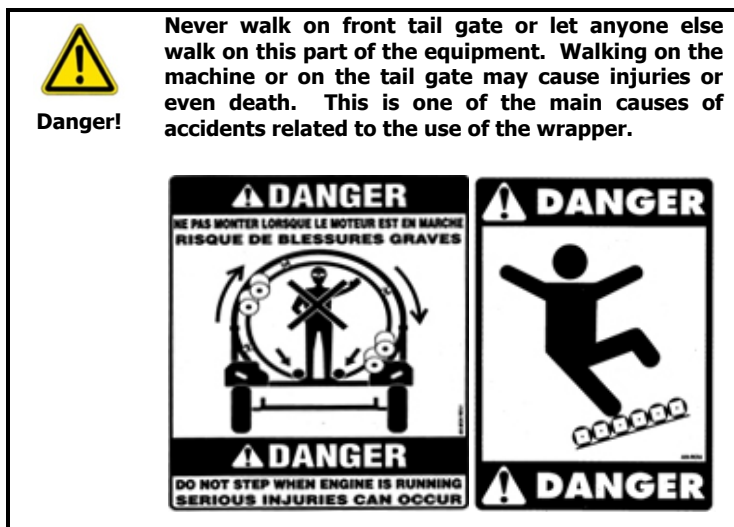
Danger!

A 5 meter security perimeter (15ft) around the machine in operation must be respected. Remove all other people / children / and animals from the site. Neglecting this rule may result in serious injuries or even death.



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Basic Security measures



Before starting the wrapper:

- Locate and understand all warning stickers on the wrapper.
- Know how to stop your wrapper with the emergency stop button.
- Make sure that all options and levers are in the neutral position (off) before starting the Honda engine
- Remove any flammable material (hay, straw or other residue) near the engine.
- Remove any hay or other debris that may be stuck in any of the moving parts of the machine to be sure that they move freely when the wrapper is running.
- Replace all worn or defective parts.

NOTE : Consult chapter 6 Maintenance and advanced adjustments for a complete description of the maintenance and tune-ups of the machine.

While operating the wrapper:

- Keep your hands and feet far from moving parts: Hoop, pusher, chains and gears etc.
- Wear safe clothing. Avoid scarves and ample clothing (loose fitting) that can easily become stuck in the moving parts of the equipment.
- Wear adequate hearing protection. You will reduce the risk of hearing loss that could be provoked by continuous exposure of the noise from the wrapper.
- Use a mask when working in dusty conditions.

- If you work in the evening or at night, be sure that the lighting is sufficient to operate safely.
- Make sure to have a working fire extinguisher at your disposal.
- Always leave all of the protective screens or other safety devices in position. If these parts are removed or damaged, do not use your wrapper until they have been fixed or replaced.

Before repairing or replacing anything on your wrapper:

- Stop the engine.
- Remove the key from the ignition of the engine to be sure that it cannot start accidentally while you are performing the maintenance.
- Store the key to the engine in the plastic black box (manual box) on the side of the wrapper and lock it with a padlock.
- Block the wheels when working under the machine.

Handling fuel

Gasoline and diesel fuel are very flammable substances which must be handled with care in an approved container. When finished filling the fuel tank firmly tighten the tank cap and wipe away any spilled fuel. Never add gasoline when the engine is hot or operating. Have a working fire extinguisher within arm's reach near the baling site.

Handling Hydraulic fluid

Hydraulic fluid is a flammable substance, keep it in an approved packaging and always be careful when you fill the tank. Once you have finished filling the tank replace the cap on the tank and tighten firmly. Wipe away any oil that may have spilled. Never add oil when the engine is warm or working. Keep a fire extinguisher with you at all times.



Danger!

In case of contact with hydraulic fluid on or under the skin; please consult a doctor right away. This must be removed within hours. Without intervention, serious problems, including amputation, may result.

Storing the wrapper

At the end of each working day, close the stop fuel valve situated under the choke on the right-hand side of the engine. This is particularly important before a long period of storage.



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Figure 4 – Closing the fuel valve

Moving the bale Wrapper

If you plan on moving your wrapper on the road, you must respect the regulations for identification and lighting in your area. We recommend that you always use safety chains when hooking the wrapper to any vehicle and lock the tongue of the machine with a pin.

3 Preparation and start-up

3.1 Before You Start

Before you start wrapping you should first:

- Check to make sure that the hydraulic oil tank is full. The oil level should be 5cms (2in) from the cap. (see figure 5) Add hydraulic oil (AW 32) if needed.
- Be sure that your engine gas tank is full.
- Be sure that your machine has been well lubricated (See section 6.2).
- The oil level for the wrapper engine is full (Figure 6).



Figure 5 – Oil in Hydraulic oil tank



Figure 6 – Engine oil cap location



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3.2 Site Selection

Choose the place where you will be wrapping your bales:

- Easily accessible all year round. Take into account the possible snow coverage of the place you have chosen during winter.
- Flat, clean and drained well. If need be mow and treat the area with weed-killer (round-up) to avoid rodents that may settle there during the winter. This could damage the plastic film.

NOTE : If your ground is slightly sloping, begin wrapping your bale tube at the bottom. You will then reverse the wrapper up the hill giving you a much more compressed tube and more air will be forced out.

3.3 Starting the Engine

To start the Honda engine please follow the below procedure:

1. Close the safety gate (figure 1) Pull the emergency stop button (figure 2) and turn the Honda engine key to the **ON** position. The engine will not start if the gate is open, if the emergency stop button is pushed or if the engine key is in the **OFF** position.
1. Push the start button (Green) on the control panel (Figure 2) or turn the Honda motor key to the **Start** position.

NOTE : If it is the first start of the day or year you will have to use the choke. Consult the user manual of the engine for how to use this procedure.

3.4 Moving the wrapper

You will probably have to move your wrapper to the area of the field that you will be storing your wrapped bales. When you move your wrapper, make sure to follow all of the safety measures and the recommendations of this section.

NOTE : Before you move your wrapper to where you will be wrapping, mark the place of each row. This will insure that you leave enough space between them and that you will easily be able to access them when you need them without damaging the bales in the next row beside.

Security when moving your wrapper



Danger!

Whatever you chose as a transport method. Nobody should be on the machine when it is moving.

Nobody should be within 5 meters (15 feet) of the wrapper while you move it.



Warning!

Before any movement, be sure that the front axle is locked in transport position (Section Locking of the front gate). Also be sure that the jack is completely lifted.

Locking of the front gate

Before moving the wrapper, lock the front gate in transport position as the below instructions:

1. Raise the tailgate (Figure 7) all of the way with the joystick (Figure 2).
2. Raise the arm to lock the tail gate and insert the arm to keep the gate in the upright position (Figure 7).
3. Insert the pin to lock the arm in place (Figure 7).

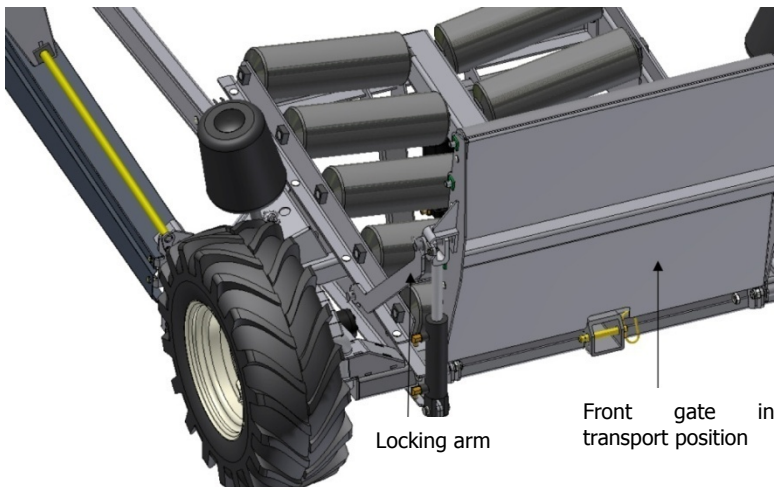


Figure 7 – Raising the front gate and locking into transport position



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Moving the wrapper short distances

Your wrapper can move itself short distances (up to a couple of hundred meters).

Moving the wrapper by its own traction drive:

1. Close the gate (Figure 1) Pull on the emergency stop button (Figure 2). The engine will not start if the emergency button is pushed in.
2. Start the Engine by pressing the start engine button on the control panel.
3. Remove the pin from the idol control of the engine. The engine will then run at top speed (Figure 8).

NOTE : When the pin is in the idol control, the acceleration of the engine is automatically controlled.

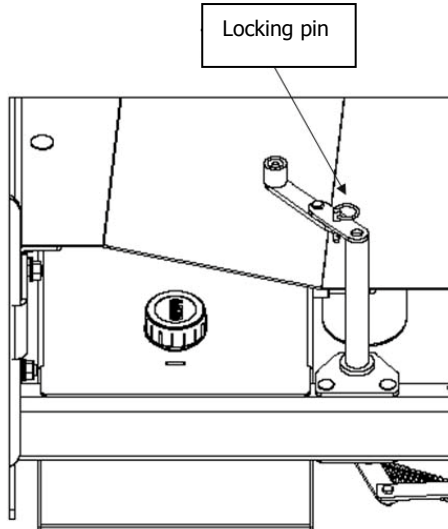


Figure 8 – Engine idol control lever

4. Place the control lever of the selection valve in the position move (Figure 2).
5. With the main valve levers, Move the wrapper with the **front traction** (To move forward or reverse) also (to turn the wheels) (Figure 2).
6. When you have finished moving the wrapper, replace the pin in the idle control handle (Figure 8). This will allow the automatic control of the engine again.

Moving the wrapper medium distances

You can move your wrapper by connecting it to a tractor or truck for distances less than 50km



Warning!

Do not move the wrapper by pulling it with a tractor or truck any distances more than 50km. Certain moving parts and tires will wear out prematurely. To take the wrapper long distances please use a trailer.

To move the wrapper by tractor or pickup truck please follow the below procedures:

1. Lift the wrapper by activating the hydraulic jack (Figure 2) and then fix the tongue to the truck or tractor that you are using to pull the wrapper (Figure 9).



Figure 9 – Tongue (helm)



Warning!

During transport the front traction wheels should not be touching the ground.



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2. Use Safety chains between the wrapper and the towing unit.



Warning!

It is necessary to use safety chains just in case the wrapper disconnects from the towing unit. Without chains you may cause injury to others or damage to other vehicles.

3. Center the rear wheels by using the sticker on the axle (Figure 10).



Figure 10 – Centering sticker



Danger!

Turn off the engine before you move the wrapper.



Warning!

Close the fuel valve on the wrapper before you move it. If the valve stays open, the fuel can get into the cylinder and flood the engine.

Storing the tow bar (Tongue)

To store the tongue, follow the below directions:

1. Pull out the pin that holds the tongue in the front of the wrapper.
2. Pull out the tongue from the slot that it is in.
3. Store the tongue in the holding area on the side of the wrapper (Figure 11).
4. Place the pin in its slot to hold the tongue in its storage area.



Figure 11 – Tongue Storage



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3.5 Installing plastic film rolls

The Wrapper is equipped with two plastic film applicators with serve to wrap the bales. You should always start with two new rolls of plastic film so that you can refill them at the same time.

NOTE :

The plastic film can become soft and sticky if it is left for a long time in the heat of the sun. You will notice when the film is being applied that it may break more often or holes begin to appear in the plastic when on the wrapped bale. Make sure to store your rolls of plastic film in a cool dark place where they are shielded from the sun.

NOTE :

It is easier to load the first bales that you will be wrapping without attaching you plastic to the hook on the hoop. We recommend that you load your bales first and then attach your plastic to the hook (Figure 16)

Getting to your plastic rolls



Warning!

Always stop the engine of the wrapper before opening the safety gate.

To reach the plastic roll supports, proceed as follows:

1. While holding the safety guard so that it does not fall, pull on the handle of the lock in the upper left corner of the guard. (Figure 12)
2. When the handle is unlocked, slide the grill to the front of the wrapper and lower it gently. You now have access to the supports of the plastic film. (Figure 12)

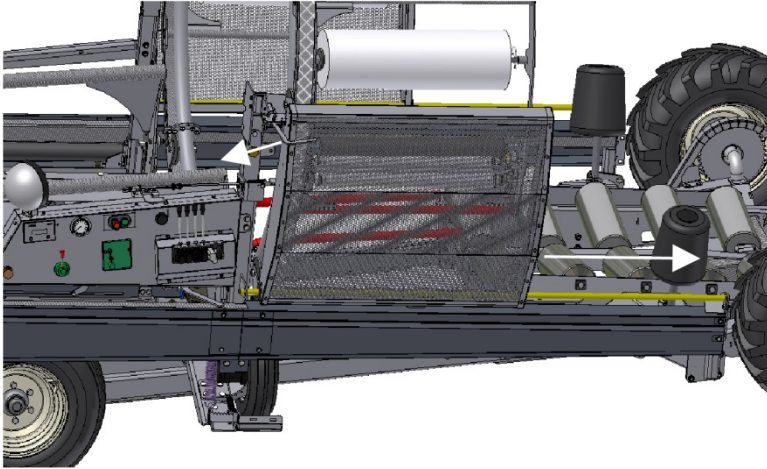


Figure 12 – Unlocking the safety gate

3. If one of the supports is not at a good height to work with, press on the hoop brake (Figure 13) and turn the hoop with your hand until it is in the position you need.

NOTE :

You can also move the hoop without completely removing the brake. Just push on the brake a bit and turn the hoop until it is in the location that you need.

Installing the first roll of plastic film

To install the 1st roll of film, proceed as follows:



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1. Press on the hoop brake (Figure 13) to engage the brake so that the hoop does not turn during installation of the film.

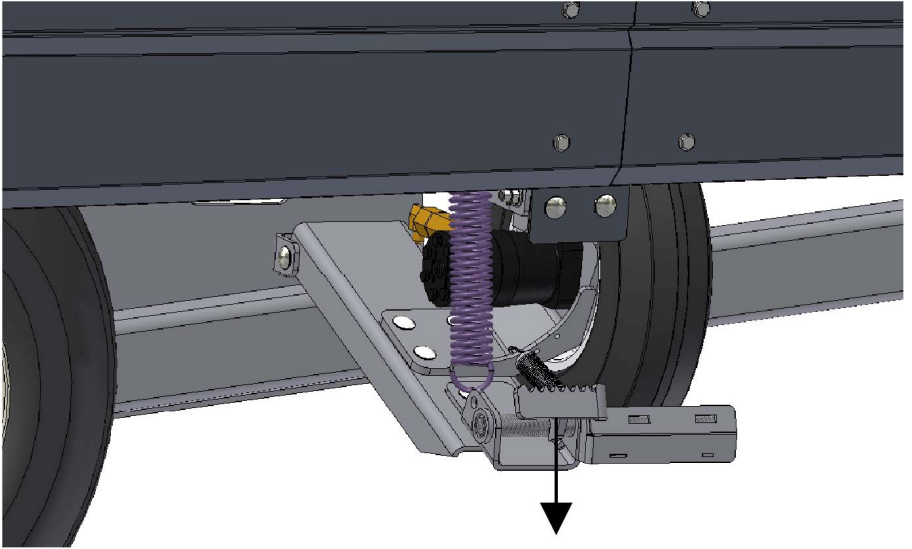


Figure 13 – Brake pedal

2. Remove the pin from the support before putting the film roll (Figure 14). Then slide the support to allow your enough space to add the new roll. (or remove the old one)

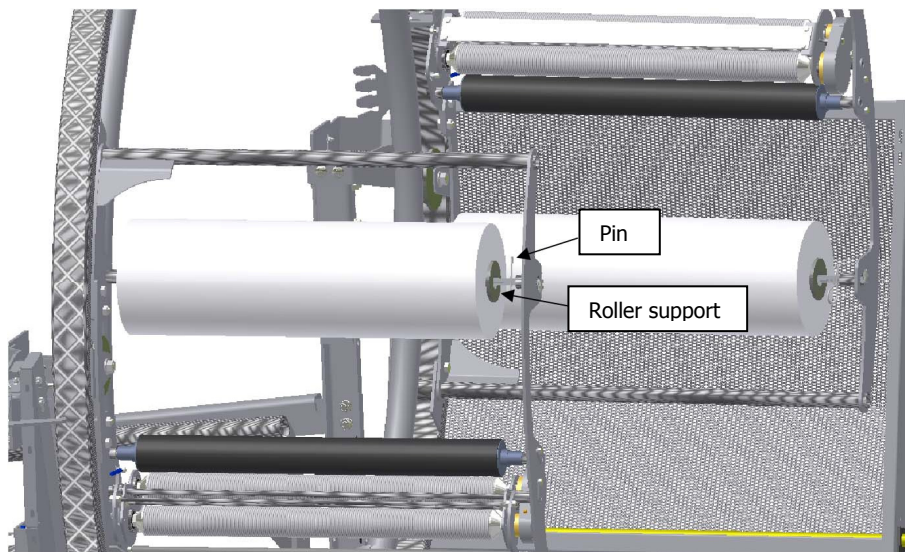


Figure 14 – Supports for film rolls

NOTE :

The rollers of the stretcher should always be clean and should turn freely to avoid any jam or tear of the plastic film. If you need to, check section 6.4 to find out how to clean the stretcher rollers.



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3. Install the new roll of plastic film so that it is exactly as in the below diagram.

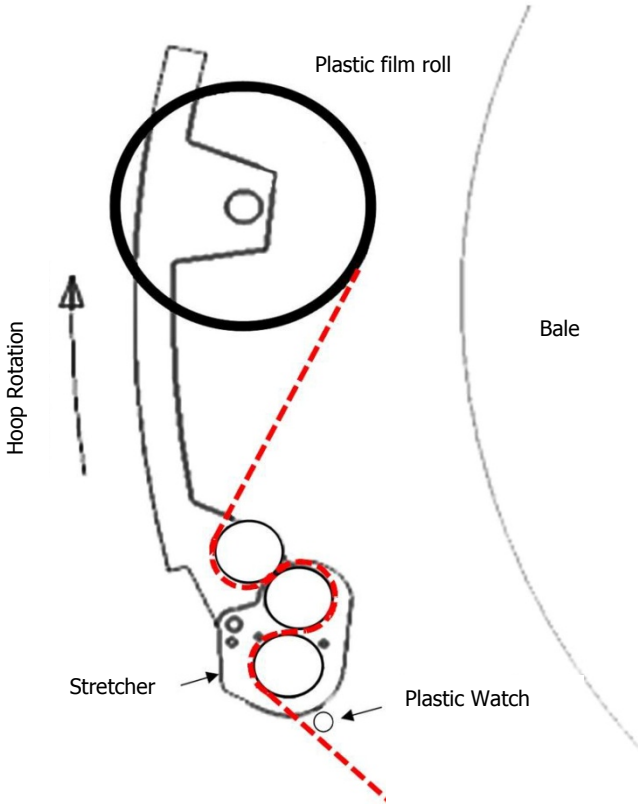


Figure 15 – Film installation

4. Replace the film support and insert the pin to lock it.
5. Insert the film between the rollers of the stretcher (see Figure 16). By first going around the black roller and then through the two aluminum rollers. You want to have about 30cm (12in.) of plastic sticking out past the stretcher when finished.
6. If your wrapper is equipped with a plastic watch (see section 9.2 for more details of this option) you will have to go around the plastic watch as well. (see above diagram)



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7. Pull on the plastic film and attach it to the hook situated on the part of the hoop as you see below.



Figure 16 – Attaching the plastic film

8. Replace the black safety guard and lock it in place.



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Installing the 2nd Plastic Film Roll

To install the 2nd roll of film, proceed as follows:

1. Turn the hoop so you have access to the send film supports.
 - Release the brake of the hoop.
 - Put the hoop speed control to the position **0**.
 - Place the selection valve of the control panel to the wrap selection.
 - Deactivate the plastic watch by placing the pin in the position **Off**.
 - Start the engine and put it in slow.
 - Increase the speed of the hoop to make it turn about half a turn so that you can reach the supports of the second stretcher.
 - Stop the hoop by placing the speed control to **0**.
 - Stop the engine.
2. Repeat the steps for installing the film as for the first stretcher system. When finished replace the guard and lock it.

4 Wrapping your bale tube

This section describes the method recommended by Anderson Group to wrap your bales in rows. The stages you must follow are:

1. Wrapper adjustments
2. Level the wrapper
3. Using bales to compress your row
4. Installation of the first bale (in a plastic bag)
5. Wrapping a row of bales
6. Ending a bale tube

This section will explain certain operations that may be necessary during the wrapping of your bales. You will learn how to run your wrapper and avoid obstacles, (section 4.7) and also how to wrap with only one roll of film when one of the stretchers are empty (section 4.6).

4.1 Adjustments

To wrap a bale row that corresponds to the characteristics of your bale and your preferences of wrapping, you will have to adjust the wrapper. These adjustments can be modified at any time during the wrapping process to adapt the wrapper to fit your needs.

NOTE : Consult chapter 5 to better understand these adjustments.

You can adjust the following components:

- Bale width (bale guides)
- Guide rollers
- Pusher return (at the end of its cycle)
- Hoop starting position
- Pusher height
- Bale compression
- Number of plastic layers

4.2 Leveling the wrapper

Level the wrapper so that the first bales wrapped do not slide off the machine.

To level the wrapper, proceed as follows:

1. Start the engine of the wrapper.
2. Level the wrapper by using the hydraulic jack.

4.3 Using compression bales

To be sure to have good quality silage, the wrapped bales must contain the least amount of air possible. When you wrap your first bale, you have to use bales in front of it to compress the



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tube and force the air out. (For bales of 1.52m (5ft) you can use one bale) (For bales of 1.2m (4ft) you will need two bales). These bales are not wrapped at the beginning of your bale row. They are used as a weight at the beginning of the bale row so that the first bales that you are wrapping do not slide on the ground. When you have wrapped enough bales that the compression bales at the beginning of the row are no longer needed to keep the wrapped bales from sliding you can place them on the wrapper and wrap them in the row.

To place your compression bales, proceed as follows:

1. Unlock the front gate and lower it. It is on this gate that the bales will slide off of the wrapper.
2. Place the hoop speed control to the 0 position. (Figure 2) This will prevent the hoop from turning.
3. Place an unwrapped bale on the table trigger (horizontally) and allow the pusher to push the bale to the end of the table without wrapping it. For bales of 1.2m (4ft) in diameter you will place another bale on the table the same way as the first. Your pusher will come back to the home position (Figure 17).

NOTE : Every time you place a bale on the trigger (Figure 1), the pusher starts and the bale is pushed towards the front of the wrapper.

The first bales that you put through the wrapper serve to compress the tube. You will wrap them at a later time.

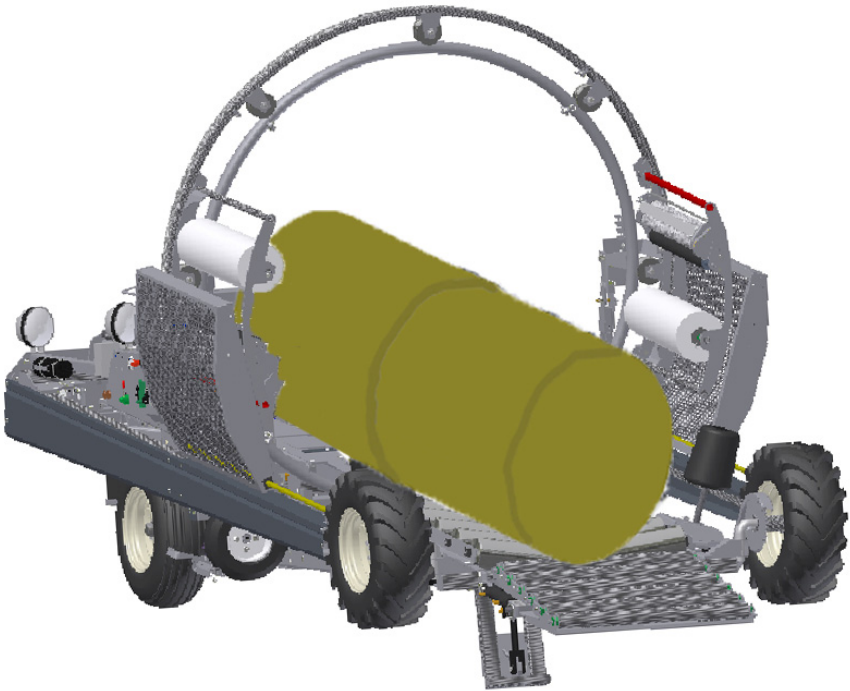


Figure 17 – Compression bales

4.4 Installing the first bale of a tube

To insure an airtight bale tube, the first bale must first be packed in a bag. To install the first bale in a bag, proceed as follows:

1. Slowly lower the front of the machine to the ground with the jack. You must do this slowly so that the bales that are on the machine do not move much.
2. Move the control lever of the wrap / move valve to the position wrap. (figure 2)
3. Place the control lever for the hoop speed (Figure 2) to the 0 speed setting to prevent the hoop from turning.
4. Press on the hydraulic bypass valve (Figure 2) to avoid the pusher from activating when you place the bale on the trigger.
5. Take a bale and place it in a plastic bag. The bottom of the bag will be at the end of your bale tube and will allow you to seal the tube tightly.



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- Place the bale (in the bag) on the trigger, with the open end of the bag facing the rear of the machine.



Be sure not to damage the bag when you put it on the wrapper.

Warning!

- Open the hydraulic bypass to allow the start of the hoop.

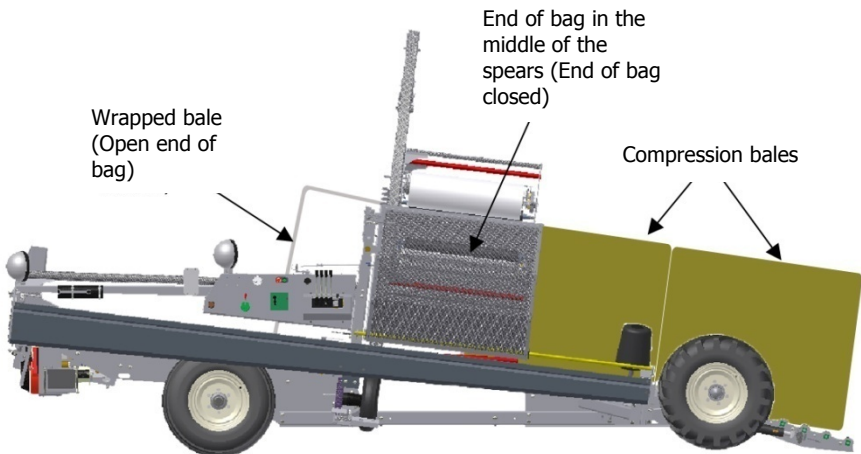


Figure 18 – Wrapping of first bale

- When the bale reaches the middle of the spears (Figure 1) start the wrapping:
 - Close the Hydraulic bypass to immobilize the pusher.
 - Deactivate the pusher (Figure 22).
 - Pull on the ends of the plastic film and attach them to the hoop (see figure 16 to see film installation).
 - Be sure that the manual hoop lever is in the back position.
 - Open the hydraulic bypass. Nothing should move.
 - With the control lever for the speed of the hoop slowly turn the hoop and apply at least two layers of plastic film.
 - Close the hydraulic bypass.
 - Reactivate the pusher (Figure 22).
 - Move the hoop speed lever to the speed 6.

- Open the hydraulic bypass. The Pusher will complete its cycle and the hoop will automatically start to wrap.

NOTE :

With bales of 1.2m (4ft), if we use the adjustment for the return of the pusher (see the Table 3), The pusher will stop its cycle at the moment that the bale reaches the middle of the spears.

The first layers of plastic film may be applied without deactivating the pusher, by using the manual control of the hoop.

4.5 Wrapping a row of bales

When the first wrapped bale comes to the end of the cycle of the pusher and the pusher returns to its home position it is time to start the automatic wrapping of the bales. To do this, proceed as follows:

1. Be sure that the wrapper is ready to start the wrapping process.
 - Both rolls of plastic film are installed (See section Installing plastic film rolls).
 - The selection valve is in the position **Wrap**.
 - The control lever for the manual control of the hoop is in the position to wrap automatically.
 - The hydraulic bypass and the emergency shut off (red button) are released (open).
 - Adjust the speed of the hoop to selection #6 (this will give you approximately 6 layers of plastic film). The machine is now ready to wrap.
2. Place a bale on the trigger of the pusher. Let the wrapper complete one cycle of wrapping (let the pusher come all of the way back) between each bale.

NOTE :

If needed, you can interrupt the wrapping to adjust the wrapper (see chapter Common Adjustments 5) or to adjust the direction of the wrapper (see section 4.7) to avoid obstacles and align the bale row.



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4.6 Wrapping with only one roll of plastic film

NOTE : Even if both film rolls were installed at the same time and they both contain the same length of plastic, sometimes one roll may empty before the other. You can then replace the roll or keep wrapping with a single roll of film.

To finish wrapping with only one roll of plastic, proceed as follows:

1. If your wrapper is equipped with a plastic watch, deactivate it by placing it in the OFF position (see section 9.2)

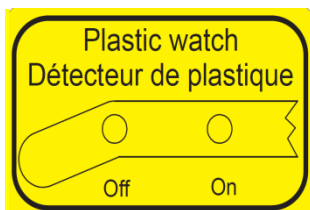


Figure 19 – Deactivation of the plastic watch

2. Double the speed of the hoop. For example if the speed is at 6, place the controller to the maximal speed. The wrapper will then place twice as much film with a single roller to compensate for the fact that the other roller is empty.
3. If the second roll is empty after you have finished this bale, close the hydraulic bypass to end the wrapping cycle (Figure 2).



Warning!

As the plastic watch is deactivated, you have watch for when the second roll runs out of film.

OR

If the second roll of plastic is not yet empty, you can place another bale on the wrapper and wrap it as well. Repeat this operation if there is still film on the stretcher.

NOTE : If you placed both rolls of new plastic on the wrapper at the same time, you should have no more than two bales to wrap manually.

4. Once the second roll is empty, replace both rolls of film (see section 3.5 Installing plastic film rolls) and reactivate the plastic watch (see section 9.2) (If your wrapper is equipped with this option).

4.7 Orientation of the bale tube

You can change the direction of the bale tube to avoid obstacles or so that the row is as straight as possible. To do this, simply move the control lever in the direction (Figure 2) that you wish the wrapper to move.

4.8 Ending a bale tube

The X-Tractor system allows you to finish the tube and empty the wrapper.

Preparation for finishing the bale row.

1. Before you put the last bale on the wrapper, adjust the stopper of the pusher to the closest position to the hoop as possible (Figure 20). So, the last bale of the tube will be pushed farther than the cylinder of the X-tractor.

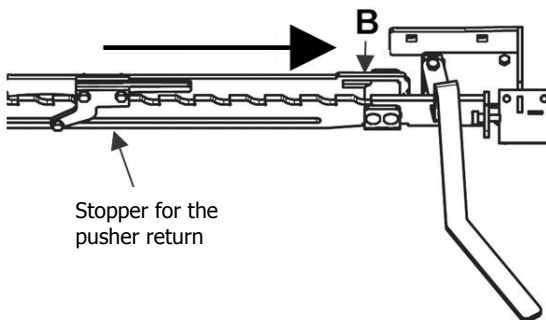


Figure 20 – Adjusting the stopper for the pusher



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- Put the last bale to be wrapped in the bale bag and put it on the wrapper. The end of the bag should be facing the rear of the wrapper (Figure 21). When the cycle is complete the bale should be at the end of the X-tractor push off cylinder.

NOTE : The X-Tractor system can only be used when the pusher has completely returned to its home position.

The pusher will only move once the X-tractor is completely retracted to its home position.

End of X-tractor

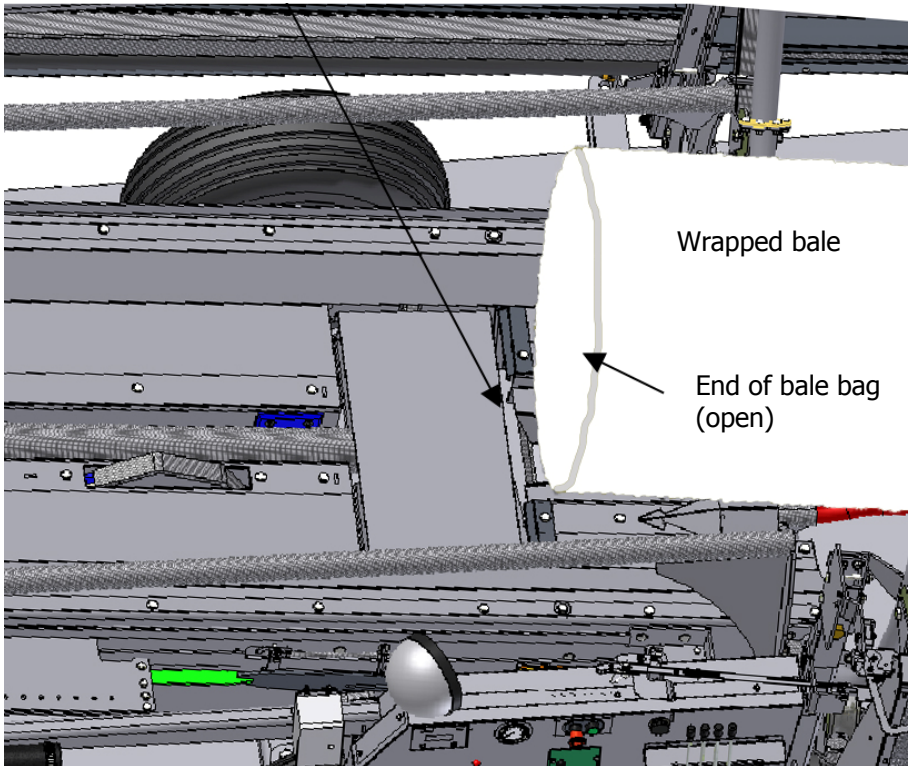


Figure 21 – Last bale position

3. Remove the locking pin from the idle control of the engine so that it runs at its highest RPM.
4. Turn the Hydraulic brake knob so that it is at the minimum setting.
5. Be sure that the traction wheels at the front of the wrapper are straight so that the machine does not turn during the extraction of the bales.



Warning!

Be sure that the last bale is not on the pushing head of the X-Tractor. If the X-tractor comes out of its housing and gets caught up in the bale you could damage the cylinder.

Ending your bale row with the X-Tractor system

1. Activate the X-tractor with the control lever on the main valve.
2. As soon as the pusher head of the X-tractor comes in contact with the last bale you can manually activate the hoop to finish wrapping the bale.
3. Once the last bale is completely wrapped, Stop the Hoop and the X-tractor cylinder. You should try to stop the hoop in a position that the stretcher is easily accessible so that you can cut the plastic film.
4. Cut the plastic at each stretcher (If the machine has a plastic watch you should cut so as not to have to pass the plastic film through the stretcher when you start your next bale row).

Completely push off the last bale

1. When the plastic has been cut from each stretcher, activate the X-tractor and push the row until the last bale is free of the wrapper.
2. Retract the X-Tractor so that it returns to its home position.
3. Move the wrapper away from the last bale (See section 3.4 Moving the wrapper) So that you can close the end bag without having to climb on the front rollers of the wrapper.

Close the end bale bag

Once the row is complete and free of the wrapper, close the end bale bag tightly. If the bag is tight and there are no holes in the plastic the bag will begin to inflate after about 20 to 30 minutes.

If the bag does not inflate, it is because the bale tube is not air tight. Find where the hole is and repair it.



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Pusher bypass

You can deactivate the pusher if you need to change plastic rolls when a bale is on the pusher trigger. You will still be able to activate the hoop so that you will have access to the stretchers. To do this you will just have to turn off the ball valve located beside the hydraulic oil tank. When you turn this handle to the off position (Figure 22) the pusher will then be deactivated.

NOTE : Deactivating the pusher still allows you to activate the hoop, even if a bale is on the trigger.

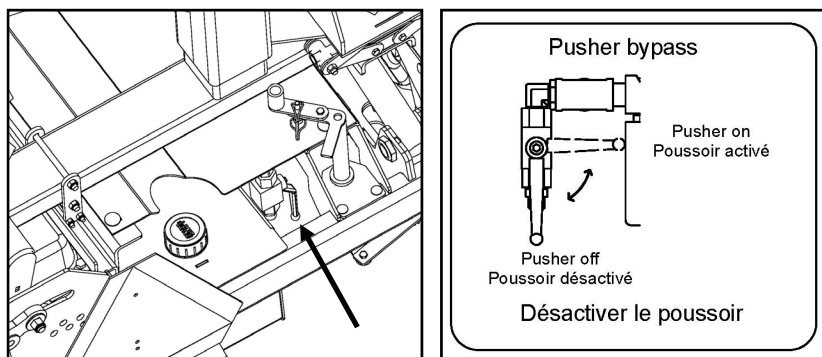


Figure 22 – Pusher bypass

5 Common Adjustments

To create a bale row that corresponds to the characteristics of your bales, you have to proceed with various adjustments. These adjustments can be modified at any time during the wrapping process to adapt better to your needs. You can modify the following adjustments.

- Width of your bales (Bale guides)
- Guide roller
- Pusher return (at the end of its cycle)
- Hoop start
- Pusher height
- Bale compression
- Number of plastic layers

5.1 Width of your bales (Bale guides)

The bale guides serve to keep your bales aligned well during the pusher's cycle. Adjust the bale guides according to the diameter of the bales to be wrapped.

1. Lift the keys on both ends of each bale guide.

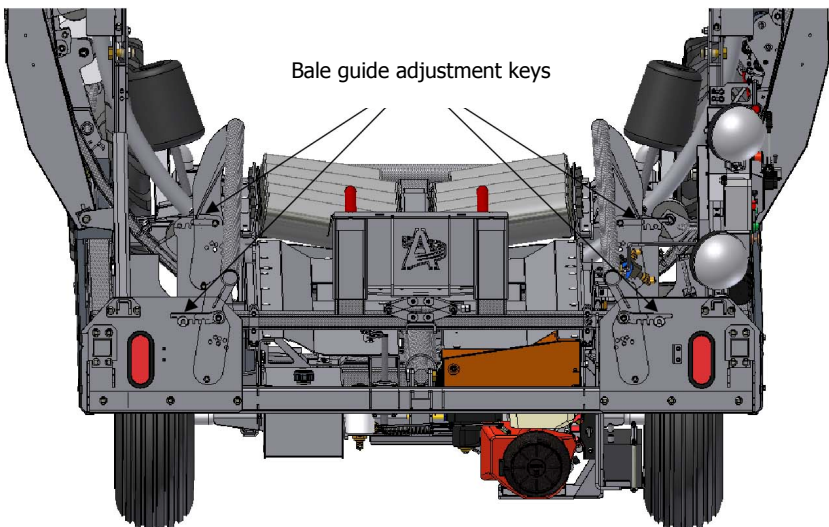


Figure 23 – Adjusting the bale guides



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2. Place the bale guides in the appropriate position for the diameter of bales you are wrapping.



Place both bale guides in the same position.

Warning!

3. Replace the locking keys at the ends of the bale guides in the correct position.

5.2 Guide roller

Guide rollers serve to align the bales as they exit the wrapper. From the factory we adjust the guides to the closest position so that when the bales come off of the machine they are as centered as possible. Both guides should be adjusted to the same position on each side of the wrapper.

If the bales that you are wrapping have a larger diameter than the factory setting, you can enlarge the distance between the guide rollers to leave more space for the bale tube to pass through. You can also place the guide rollers in different positions for certain circumstances, for example, if your wrapping area is on a slope.



Make sure that the wrapped bales do not rub on the traction wheels as they are coming off of the wrapper. This would cause damage to the wrapper.

Warning!

To adjust the guide rollers, proceed as follows:

1. Remove the cotter pin that holds the guide roller in place.

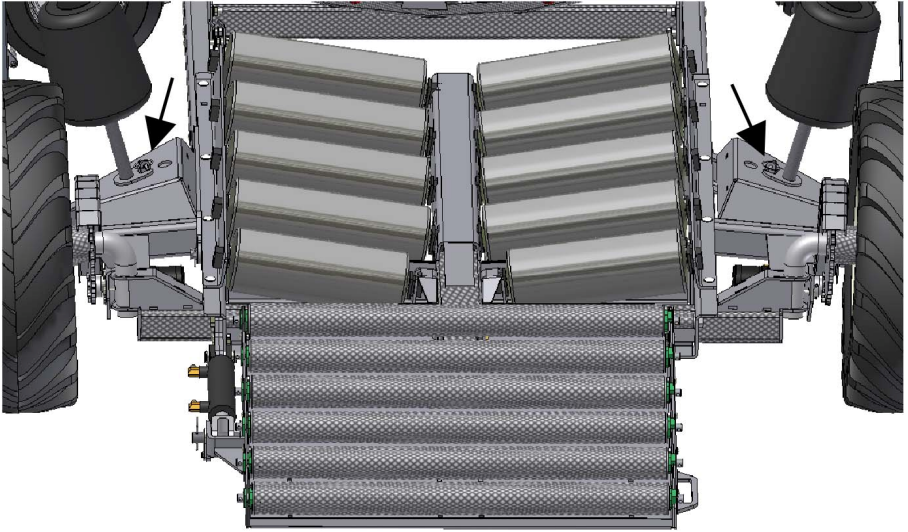


Figure 24 – Adjusting the guide rollers

2. Place the roller in the desired position and put the pin back in to hold the roller in place.
3. If needed follow the same procedure to change the other guide roller.



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5.3 Pusher return (at the end of its cycle)

Adjusting the stopper will determine at what moment the pusher will stop and return to its home position. Generally you should follow the table 3 (below) and the diagram (Figure 25). These adjustments should give you enough space to load the next bale on the wrapper. However, if the bale does not have enough space because it is soft or not fully compacted you can adjust the stopper to give you enough space to load your next bale.

To make the pusher come back earlier, move the stopper towards the rear of the wrapper.

To make the pusher come back later, move the stopper towards the front of the wrapper.

Length of the bale	Adjustment
1,2 m (4 ft)	Position A
1,52 m (5 ft)	Position B

Table 3 – Suggested adjustments (Position of the Pusher return stopper)

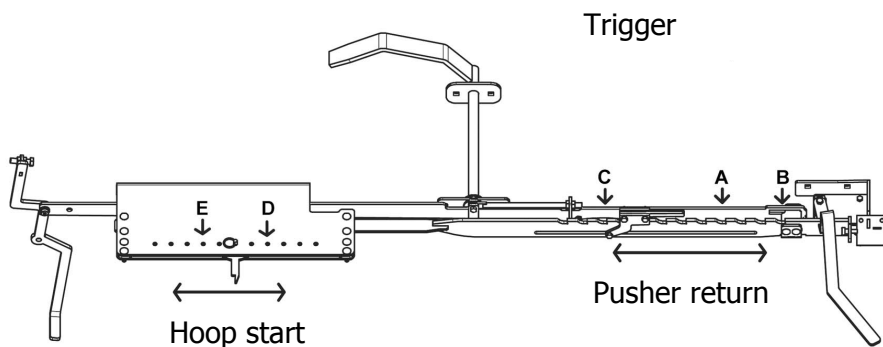


Figure 25 –Automatic system adjustments (Hoop start and Pusher return)

5.4 Hoop starting point

By adjusting the pointer for the hoop start you can determine when the hoop will begin to turn.

NOTE : You must first adjust the stopper for the pusher return before you adjust the hoop start point.

Generally, you should adjust the pointer to start the hoop so that it begins to turn when the bale is approximately 5cms (2in) from the previously wrapped bale. (See Table 4 – Suggested settings (Position of the pointer to start the hoop) and Figure 25)

To make the hoop start earlier, move the pointer towards the rear of the wrapper.

To make the hoop start later, move the pointer towards the front of the wrapper.

NOTE : For round bales of 1.2m (4ft): You can also add one or two additional layers of film to the junction of the bales. You will have tighter and a more air tight bale tube without having to add plastic film everywhere. To do it, you move the pointer towards the rear of the machine.

Round Bale sizes	Adjustment
1,2 m (4 ft)	Position D
1,5 m (5 ft)	Position D

Table 4 – Suggested settings (Position of the pointer to start the hoop)



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5.5 Pusher height

Generally, it is recommended that you place the pusher as low as possible to make it easier for you to load the bales with your tractor.

However, if the bales are not very tight, the best way to push the bales is by raising the pusher so that you have more contact with the bale.

To raise the pusher, unscrew the bolt to raise the height (Figure 26).

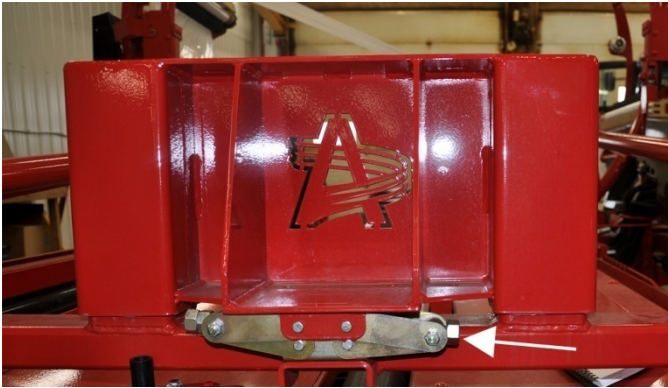


Figure 26 – Adjusting the height of the pusher

5.6 Bale compression

You can modify how the bales are compressed together in the bale tube with the hydraulic brake system. The hydraulic brake serves to block the front wheels of the wrapper causing the bales to be compressed as they are pushed together by the pusher. This will decrease the space needed for your bale rows and also push the maximal air from the tube. This will also be useful if there is a slope where you are wrapping.



Warning!

At the beginning of the row, the brake pressure must be adjusted so that the wrapped bales do not slide on the ground. If this is not done you risk damaging the plastic film.

To modify the pressure on the hydraulic brake, you will tighten the knob on the control panel (Figure 2). The pressure should be set between 500 and 1000 psi. This reading is located on the manometer (gauge) of the wrapper.

5.7 Number of plastic layers

You can adjust the number of layers of plastic film applied by the wrapper by changing the speed of the hoop. As there are two rolls of film, every complete turn of the hoop represents two layers of film. We recommend putting the hoop speed setting to 6 for a normal wrapping. You should have approximately six layers of plastic at this setting.

NOTE : The number of layers of film chosen on the hoop speed setting is only a rough guide. To be sure of the number of layers you should count them as they are applied and adjust the speed of the hoop to obtain the desired number.

To increase the number of layers of film, place the control lever for the speed of the hoop to a higher number.

To decrease the number of layers of film, place the control lever for the speed of the hoop to a lower number.



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6 Maintenance and advanced adjustments

This chapter explains how to maintain and adjust your wrapper to keep it running smooth and avoid it from wearing parts prematurely.



Danger!

Before doing any maintenance or adjusting your wrapper, remove the ignition key for the engine and put it in the black box located on the side of the wrapper. This will avoid any accidental starting of the engine.



Danger!

It is important that you respect all safety regulations during maintenance of your wrapper. Consult the safety and maintenance chapter to follow these procedures properly.



Warning!

It is very important to respect maintenance and adjustment schedule. Consult the section 6.1 to know what maintenance and required adjustments and know how often you should follow these procedures.

To know how to maintain your Honda or Kubota engine, consult the user guide supplied with this engine.

6.1 Maintenance and adjustment schedule

The following table shows the recommended maintenance schedule for your wrapper.

Maintenance /Adjustment	Timeline	See section
Lubrication	Every 200 bales	6.2
Grease	Every 200 bales	6.3
Cleaning	Every day used or more often if needed	6.4
Tire verification	Every Year	6.5
Stretcher verification	Every Year	6.6
Maintenance and advanced adjustments	When needed (for changing the functions of the wrapper)	6.7

Table 5 – Recommended maintenance schedule and advanced adjustments

6.2 Lubrication

You must lubricate your wrapper in the following places:



Figure 27 – Lubrication points



Figure 28 – Drive chain



Figure 29 – Engine idle control



Figure 30 – Manual hoop start



Figure 31 – Automatic system

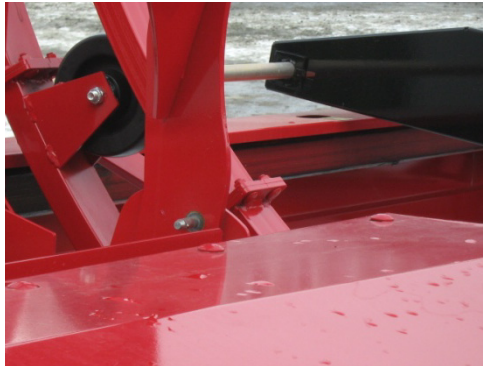


Figure 32 – Pusher guide rails



Warning!

The two square metal tubes that are used as guide rails for the pusher are greased at the factory. Adding grease to these may provoke an accumulation of dust and restrict the pusher from moving freely.

Instead you should oil these tubes in the place indicated by the sticker. This sticker is located behind the pusher when it is moved forward.

6.3 Greasing points

You should grease your wrapper with a grease gun after every 200 bales in the following places:

NOTE : We recommend that you use synthetic grease.



Figure 33 – Grease points



Figure 34 – Both front axels



Figure 35 – Both rear axels



Figure 36 – The gears of the stretcher system

6.4 Cleaning

Front traction sprocket

Remove any debris or hay that may be stuck between the sprockets or around the axle. You should check this after each day that you wrap. Not taking care of this could cause stress on the hydraulic motors.

Engine

Remove any flammable material near the engine. Remove the dust that will accumulate around the air filter of the engine also from time to time.

Rollers

Always keep the rollers for the stretcher and the black rubber roller clean at all times. By doing this you will avoid the stretchers from jamming and breaking your plastic.

If the rollers are clean but do not turn freely, grease them and all of the mobile parts with an all use antifricition lubricant. (Eg Prolab PL-100)

6.5 Verification of the wheels and tires

For safe operation, it is recommended that you verify the pressure of the tires every year. Consult Table 2 to know the specific pressure recommended for each type of tire.

You should verify the wheel bolts often to ensure that they are tight.



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6.6 Verification of stretchers

Generally the stretchers do not require any maintenance. If they are not working correctly, verify that the rollers are clean and free of debris. (see section 6.4). We also recommend that you verify the stretch of the plastic film once per year.

Stretcher test

To do a stretch test, proceed as follows:

1. First you must draw a horizontal line about 25cm (10in) on the circumference of the roll with a felt-tip marker on the roll of film.

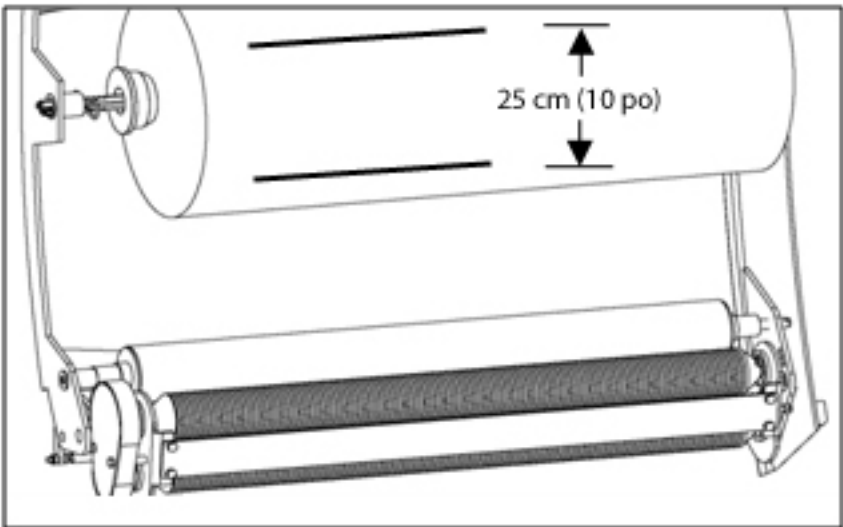


Figure 37 – Stretchers


2. Wrap a bale normally by making two revolutions of the hoop.
3. Measure the distance between the lines on the bale. If the distance is between 38cm (15in) +/- 1cm (.5in) the stretcher is working properly. If the distance is not within these guidelines you should clean the stretcher.
4. Repeat the same test for the other stretcher.

6.7 Advanced adjustments

This section describes the adjustments that may be necessary during the repair of the wrapper.

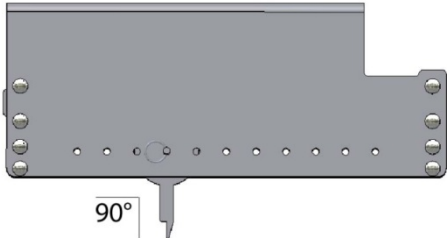
Adjusting the hoop activation lever (pointer)

This adjustment is necessary if the hoop does not start when the automatic system is engaged.



Warning! Before making this adjustment, disengage the hoop by placing the control lever of the hoop in the back position (manual mode).

The hoop is disengaged if the pointer is at a 90° angle to its support plate.



If you adjust the control lever (pointer) without disengaging the hoop you may damage the wrapper.



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To adjust the control lever for activating the hoop, proceed as follows:

1. Place the stopper for the return of the pusher in the 7th position from the back of the wrapper (Figure 38).

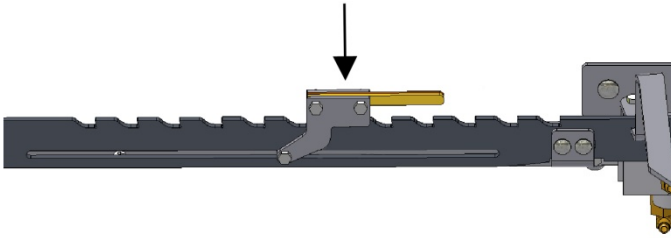


Figure 38 – Adjustment of the hoop activation (return of the pusher)

2. On the control panel, you need to place the hoop speed control to the position 0. (Figure 2) and press the button to stop the hydraulics.
3. You should place the pointer for the hoop start as you see in the below illustration (Figure 39) :
 - Manually push the pointer forward on the machine, the angle should be slightly lower than 90° (Figure 39).

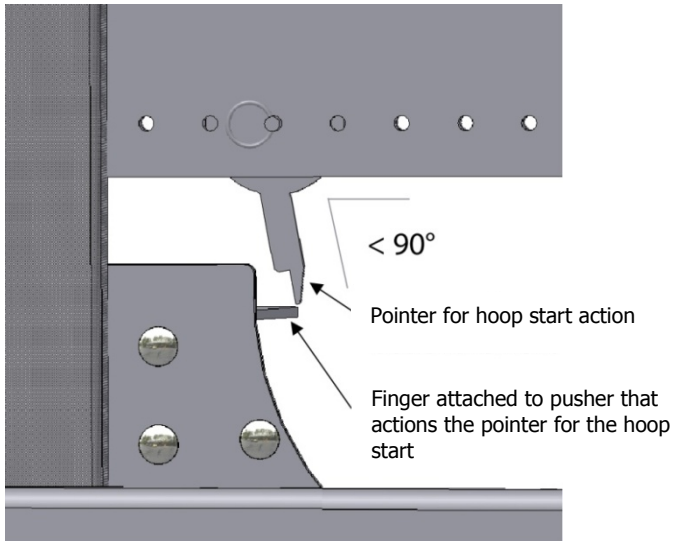


Figure 39 – Adjusting the control of the hoop start (position of the pointer)

- Start the engine.
- Push the manual release for the pusher (Figure 40).

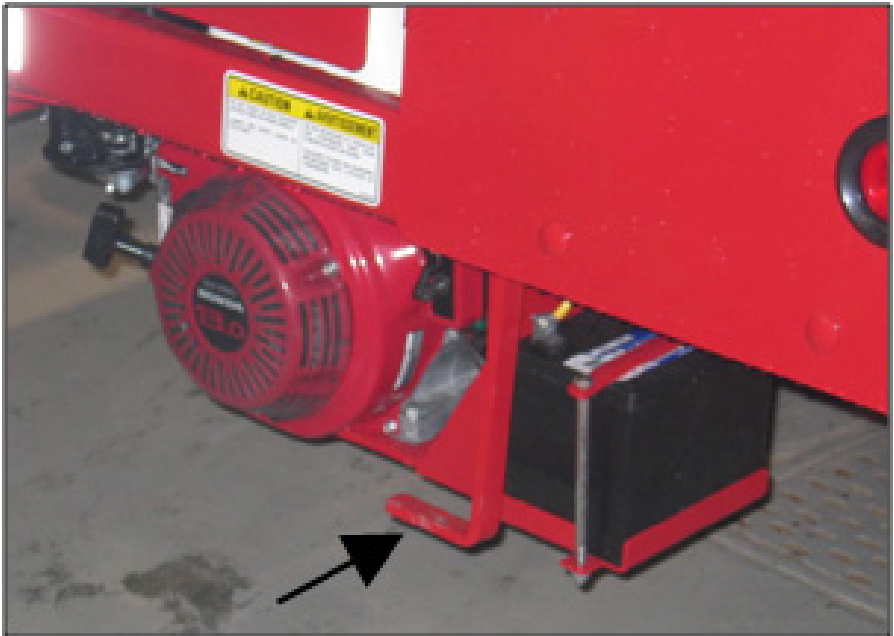


Figure 40 – Adjusting the control for the hoop (manual start of the pusher)

- Move to a position near the wrapper where you can see the pointer that activates the hoop.
- Pull on the emergency stop button. The pusher will move forward. When the finger that is attached to the pusher arrives in front of the pointer push the emergency stop button (Figure 39).
- Stop the engine.



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4. Loosen the bolts on the finger that hold in place. Adjust the position so that it slightly touches the pointer. (Figure 41).

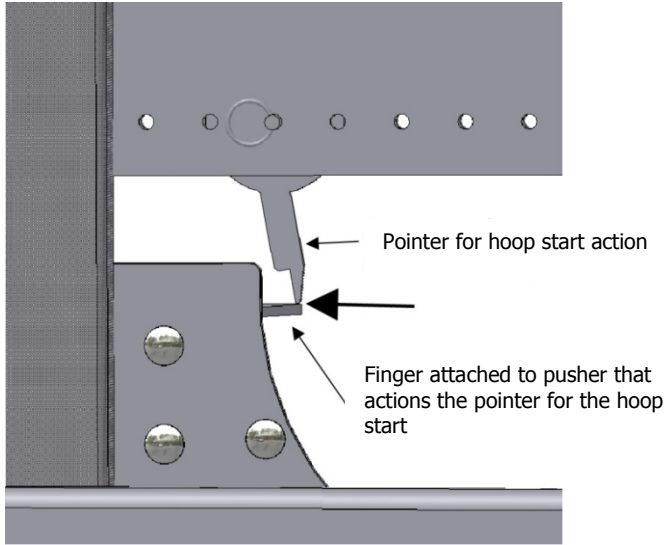


Figure 41 – Adjustment of the hoop trigger

The hoop actuator is now adjusted. Restart the engine and pull on the hydraulic stop so that the pusher comes back to the start position.

Adjusting the pusher trigger

This adjustment is only necessary if the trigger does not engage the pusher when a bale is placed on the wrapper.

Place the pusher bar over the trigger.

To move the pusher bar over the trigger to adjust it, proceed it as follows:

1. Turn the hoop speed control to **0**.
2. Push the emergency stop button.
3. Start the engine.
4. Press the pedal by the engine to manually engage the pusher (Figure 40).
5. Move to a position where you can see the trigger and the pusher bar at the same time (Figure 42).
6. Pull on the hydraulic stop button. Let the pusher go to the front of the wrapper and when it is on its return and over the trigger (Figure 42).
7. Stop the engine.

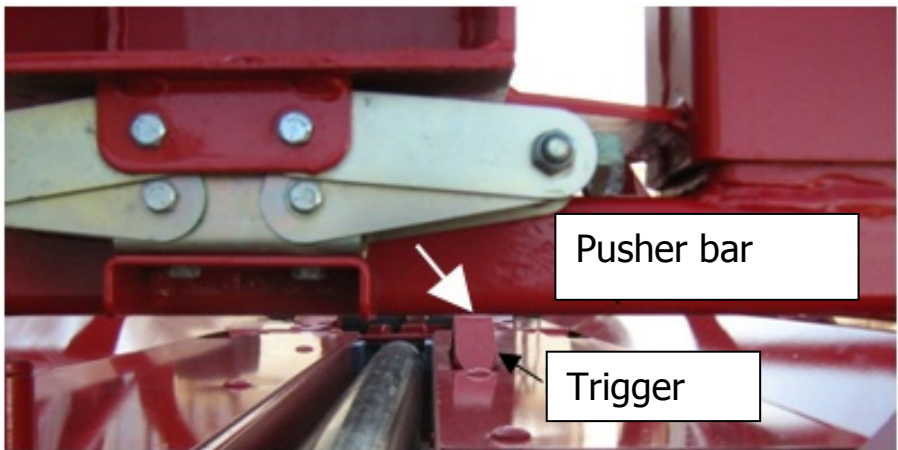


Figure 42 – Adjusting the pusher trigger



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Adjusting the height of the trigger

To adjust the height of the trigger of the pusher (Figure 42), proceed as follows:

1. Screw or unscrew the nuts (Figure 43), if you want to raise or lower the trigger for the pusher (Figure 42).
2. To be at the right height the trigger should slightly touch the pusher bar (Figure 42).



Figure 43 – Adjusting the pusher trigger (nuts)

The trigger is now adjusted. Restart the engine and push the hydraulic stop button so that the pusher returns to the home position.

Adjusting the limit stop (end of cycle for the pusher)

This adjustment is necessary when the engine continues to force, as if the pusher had not returned to the end of its cycle. This usually happens after years of use. To adjust the limit stop, proceed as follows:

1. Stop the engine and push the hydraulic stop button.
2. With the bolts, you can adjust the space slightly as illustrated in Figure 44. The space should be about 2.5cms (1in).

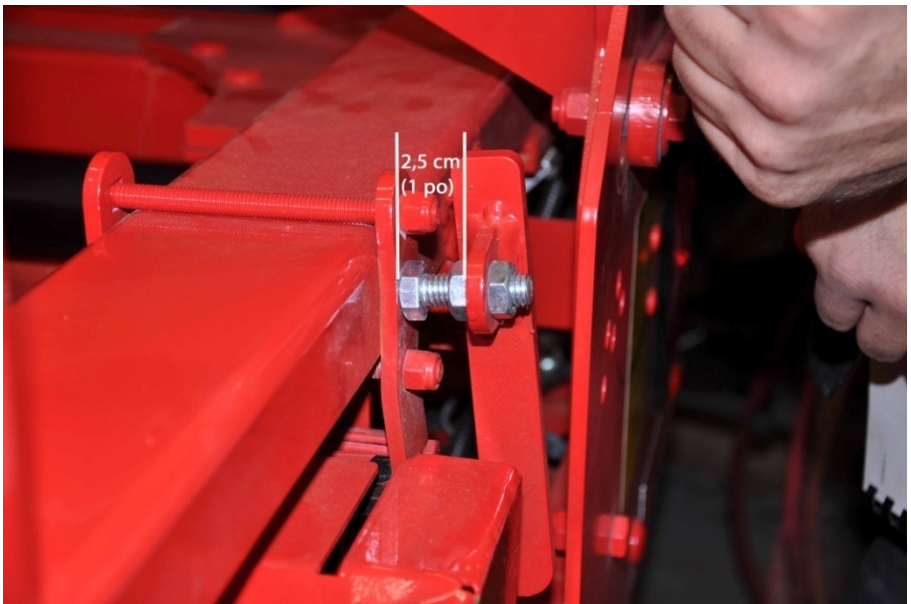


Figure 44 – Adjusting the limit stop for the pusher bar

3. Start the engine and let the pusher do a complete cycle to make sure that the problem has been resolved.

NOTE : If the problem still has not been solved, repeat the steps and add a little bit more space to the limit stop.

Adjusting the automatic system

This adjustment can be necessary if the hoop does not stop when the cycle of the pusher comes back to its home position, or if the pusher does not return to its home position.



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To adjust the automatic system, proceed as follows:

1. Stop the engine and push the emergency stop button and the hydraulic stop button.
2. Push in the pedal for the manual start of the pusher (Figure 45). **Do not start the engine.**



Figure 45 – Adjusting the automatic system (Pusher pedal)

3. Pull the manual control lever for the hoop towards the back of the wrapper to completely extract the valve plunger.

4. The push the handle forward until the plates touches slightly but do not move the valve spool (Figure 46).

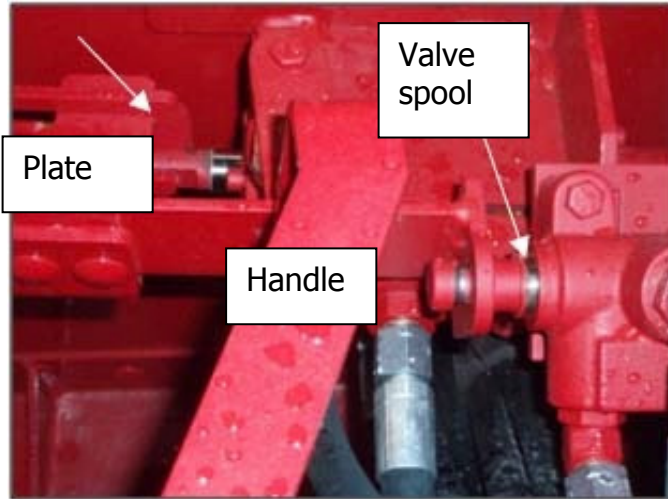


Figure 46 – Adjusting the automatic system (spool position)

5. Measure the distance from the snap ring and the valve body. If the distance is at 3mm (1/8 in) (Figure 47). The valve is adjusted correctly.

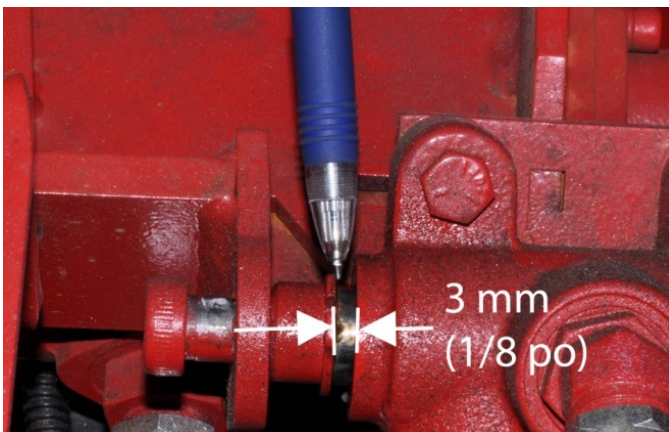


Figure 47 – Adjusting the automatic system (spool measurement)



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6. If the measurement is not 3mm (1/8 in) proceed as follows to make the adjustment: Unscrew slightly the two bolts from the plate (Figure 48). Move the plate forward (Figure 48) by using the handle of the manual start of the hoop. Until you have a space of 3 mm (1/8 in) (Figure 47) do this while leaving the plate at the end of the slot that it sits in (Figure 46).
 - Tighten the two bolts again (Figure 48).

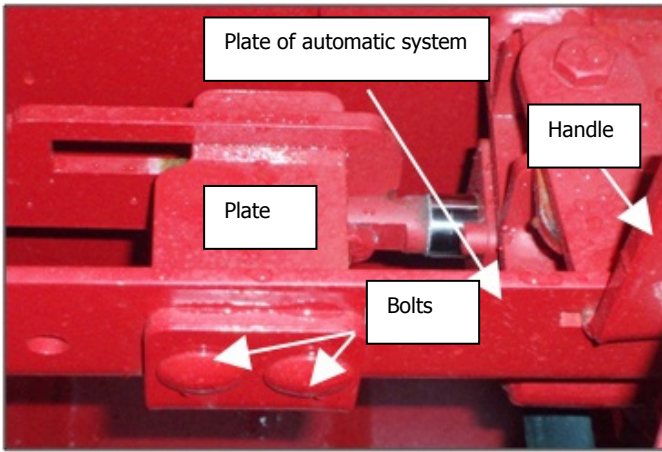


Figure 48 – Adjusting the automatic system (Moving the plate)

7. This is a very precise adjustment, repeat the steps 1 to 5 to verify that the adjustment was done correctly and the space is ok.

Adjusting the spring on the automatic system

This adjustment may be necessary if the pusher moves all of the way forward but does not return at the end of the cycle and you have tried all other adjustments. To adjust the spring proceed as follows:

1. Verify the position of the spring bracket. It should be at a 45° angle with the bed of the wrapper, which will normally give you the correct amount of tension on the automatic system.

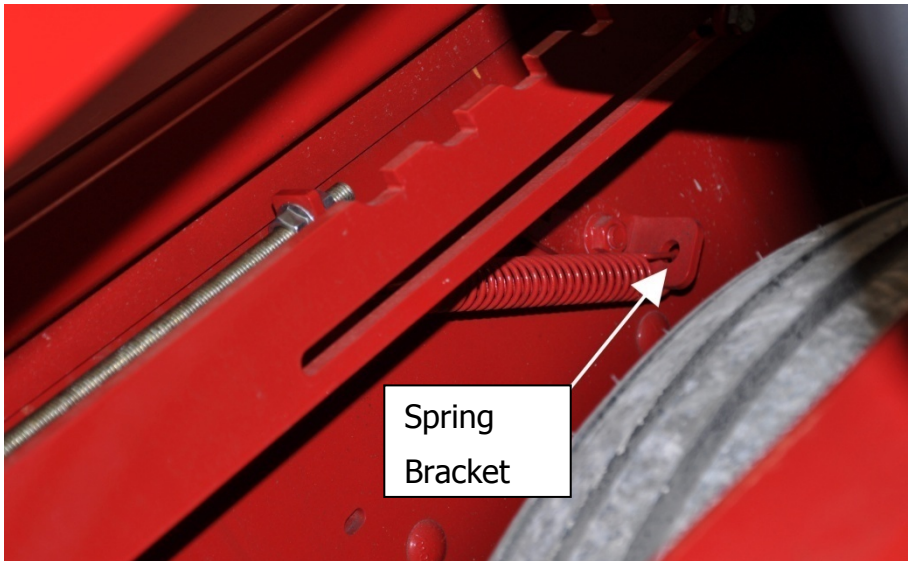


Figure 49 – Adjusting the automatic system spring

2. Unscrew the bolt slightly for the spring support bracket and move it to stretch the spring a little more. Tighten the bolt to secure it in the new position.

NOTE : You do not want too much tension on the spring or the pusher will return before it is finished its cycle.



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Adjusting the hoop drive wheel

If the hoop slips or stops, you can increase the tension of the spring that holds the wheel in place. All you have to do is tighten the nut on the threaded rod, located above the spring. (Figure 50)

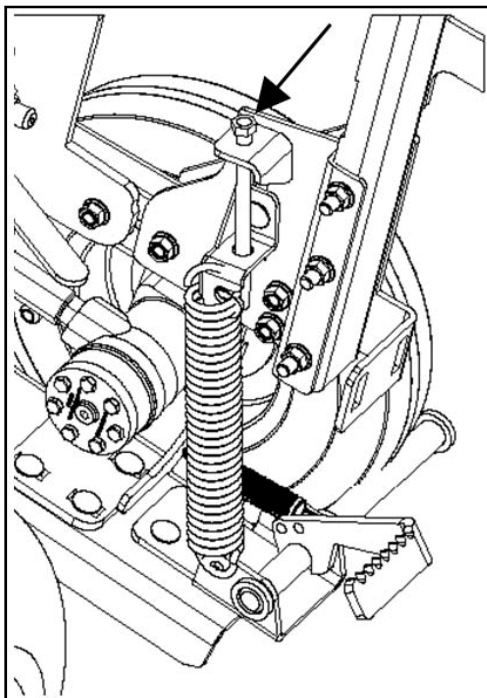


Figure 50 – Adjusting the spring of the hoop drive wheel

7 Storage



Warning!

Before turning off the engine of the wrapper, be sure that the pusher has returned to the home position. If this is not done it may drain the battery of the wrapper.

It is important to store the wrapper appropriately so that it does not wear prematurely. When you store the wrapper, make sure to follow all of the below steps:

- Be sure that all four wheels are touching the ground.
- Block the wheels with wedges so that there is no way the machine moves while in storage.
- Raise the front gate so that nobody climbs on the wrapper.
- Close the gas line so that no fuel gets into the engine.

NOTE :

When storing the wrapper for long periods of time you should disconnect the battery.

Also when you store the wrapper for long periods of time, you should grease the pusher guide bars. This will avoid them from being stiff the next time you use the wrapper. It is also strongly recommended to do a full maintenance check up and lubrication before storing for long periods (see chapter 6).

8 Troubleshooting

The following table describes the most common problems that you may come across with the wrapper. It also gives solutions to resolve them. If your problem does not appear in this table, or if you do not manage to resolve it by yourself, communicate with the service department of your dealer or with the Anderson Service department (consult the section How to reach us at the beginning of the manual for our contact information).

NOTE : For engine problems, Consult the user manual for the Honda or Kubota engine that is supplied with the wrapper.

Problem	Possible causes	Solution
The engine does not start.	The fuel valve is closed.	Open the fuel valve and try to start again.
	The gas tank is empty.	Refill the tank.
	The low engine oil sensor of the Honda engine is activated.	Add oil to the engine and try to start again.
	The spark plug is clogged or defective.	Clean the spark plug or change it.
	The engine is flooded because the fuel valve was not closed during transportation.	<ol style="list-style-type: none"> 1. Remove the spark plug, dry it out, dry out the cylinder by activating the starter rank. Put the spark plug back in and try to start again. 2. Change the oil.
	Too much oil in the oil pan.	Adjust the oil level.

Table 6 – Engine trouble



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Problem	Possible causes	Solution
The pusher does not move forward.	The bale is not correctly placed on the trigger. The bale may be soft and is not pushing enough on the trigger.	<ol style="list-style-type: none"> Pick up the bale again and rotate it a few degrees and re-load it. Widen the bale guides (See section Width of your bales (Bale guides) Page 45).
	The hydraulic oil level or pressure is too low.	Check the oil level. Also check for leaks or holes. Repair if necessary. Add hydraulic oil #32 (or TDH or hydraulic transmission fluid) to the tank.
	The trigger is not properly adjusted..	Adjust the trigger. See section Adjusting the pusher trigger (On page 64).
	The X-Tractor cylinder is not fully retracted.	Make sure that the X-Tractor cylinder is in the rearmost position.
	The valve for deactivating the pusher is open.	Close the valve.
	The bale guides are too close together	Adjust the bale guides so that they are close enough together to keep the bales in line but not squeeze them. See the section Width of your bales (Bale guides) on page 45.
	The bale is not tight enough.	You should not try to wrap bales that are not tight enough.
The pusher does not come back after completing the cycle.	The pusher does not make it all of the way to the stopper because the spring on the automatic system is too tight.	Adjust the spring so that its bracket is approximately 45° in regards to the table. See section Adjusting the spring on the automatic system.
The pusher advances at a normal speed but the hoop does not turn fast enough	The hoop speed control is not adjusted properly	Raise the hoop speed control to a higher setting.
	The hoop control lever does not trigger the hoop.	Adjust the pointer on the automatic system. See section Adjusting the hoop activation lever (pointer) On page 59.
The pusher does not return to the	The automatic system may be dirty.	Clean the automatic system.



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Problem	Possible causes	Solution
home position at the end of its cycle.	The spring on the automatic system is not tight enough.	Adjust the spring on the automatic system. See section Adjusting the spring on the automatic system.
The pusher has returned to its home position but the engine is still forcing like it has not completed its cycle	The limit stop is not adjusted properly	Adjust the limit stop for the pusher. See section 6.7

Table 7 – Pusher trouble

Problem	Possible causes	Solution
The X-Tractor system does not work properly	The pusher is not in its rearmost position or the sensor is not properly adjusted	Verify that the pusher is fully retracted and the sensor is in the right position. (The sensor is located just under the pusher bar, Just above the pedal for the manual operation of the pusher.)

Table 8 – X-Tractor trouble



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Problem	Possible Causes	Solution
The hoop does not turn or does not turn fast enough	The speed control is too low	Raise the hoop speed control.
	The hoop drive wheel is slipping on the hoop.	<ol style="list-style-type: none"> 1. Tighten the hoop wheel spring. See section Adjusting the hoop drive wheel 2. Verify the tire pressure. See the section Verification of the wheels and tires 3. Change the tire if it is too worn out.
	The hoop drive wheel does not turn.	<ol style="list-style-type: none"> 1. Verify the hydraulic oil level and check for leaks and debris. Repair if needed. Add hydraulic fluid AW32 to the tank if needed. 2. Verify the hydraulic motor for the hoop drive wheel and change it if needed.
	The lever that starts the hoop is not fully engaged.	Adjust the lever. See section Adjusting the automatic system.

Table 9 – Hoop trouble

Problem	Possible causes	Solution
The hydraulic stop activates by itself.	There may be residue on the spool and the vibration of the plastic watch engages the hydraulic stop.	Clean the spool with a solvent and tighten the components of the plastic watch system.

Table 10 – Diverse trouble



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Problem	Possible causes	Solution
The plastic film breaks at normal temperatures	The film is not tight enough	3. Check to make sure that the plastic film roll is installed as indicated in the diagram on the stretcher.
	There may be some debris in the gears of the stretcher.	Remove the debris and check the stretchers.
	The aluminum rollers are dirty	Clean the rollers penetrating oil (WD 40)
	The rubber roller is damaged	Replace this roller.
	The spears have become rough underneath	Sand the spears with light sandpaper.

Table 11 – Wrapping trouble (plastic film)

9 Options

Your wrapper can be equipped with one or several options. The available options are described in the following sections.

9.1 Work Lights

This option includes two lights that are installed on the crossbar on the right-hand side of the machine to facilitate operating the wrapper in the evening or even at night. The lights are connected to the electric system of the wrapper. To turn on the lights you just have to switch on the toggle switch that is installed near the starter of the machine.

NOTE : The Honda engine must have an alternator of at least 10 amps so that this option works. With a less powerful alternator, your battery will lose its charge.

9.2 Anderson Plastic Watch

When added to the wrapper, this option will automatically stop the hoop if the plastic film breaks or if one of the rolls is empty.

To activate the plastic watch:

1. Remove the locking pin.
2. Move the arm of the plastic detector and place the pin in the hole to activate or deactivate the plastic watch.
3. Lock the pin in place.

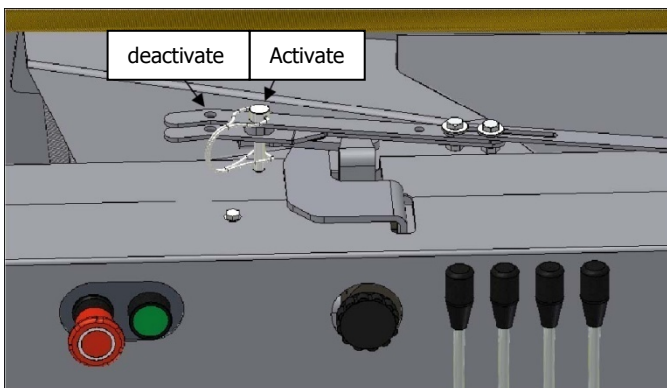


Figure 51 – Activation / deactivation of the plastic watch



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9.3 Remote start and stop

This option serves to start and stop the engine from a distance. This system includes a remote control as well as an electric box installed on the right side interior of the wrapper frame.

NOTE : Your wrapper can also be equipped with a remote start and stop (see section 9.4).



This remote is not waterproof.

Warning!

The remote is equipped with two buttons and an indication light:

- The green button (B) allows you to start the engine.
- The red button (C) Turns off the engine.
- The red light (A) Blinks briefly when a button is pushed and the battery is working correctly.

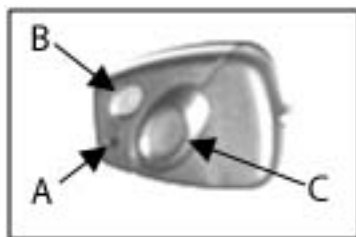


Figure 52 – Functions of the remote

Programming

If your remote control was installed at the factory, the remote is already configured. If the starter was not installed in the factory or if you have replaced the remote, you will have to program it. To program the remote proceed as follows:

1. Turn the engine **Off**.
2. Hold in the red button on the remote (**C**) at the same time, turn the ignition to **ON** and then **OFF** and then to **ON** again.
3. Let go of the red button and press the green button. The engine should start.

Starting the engine with the remote

To start the engine with the remote, proceed as follows:

1. Turn the ignition of the engine to **On**.
2. Be sure that the emergency stop button is pulled out and the safety gate for the hoop is closed securely.
3. Push on the green button (**B**) of the remote control (Figure 52).

NOTE :

If the engine does not start on the first attempt, the system will automatically try two more times without you pressing the button again.

Troubleshooting

Problem	Possible causes	Solution
The remote start does not work	The ignition of the engine is in the Off position.	Turn the ignition On .
	The battery of the remote is low or is not installed correctly.	Replace the battery and check the connection.
	The fuse of the engine has blown.	Replace the fuse.

Table 12 – Troubleshooting the remote start and stop



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9.4 Remote steering

Thanks to the remote steering option, you can operate the wrapper from your tractor with a remote control. The functions of the remote control allow you to manage the wrapper as well start and stop the engine.

This option includes a remote control, a receiver and an electric section on the main hydraulic valve. The receiver and electric section on the valve are installed in factory and require no adjustment or maintenance.

NOTE : The remote steering option offers the same functions as the remote start and stop and also allows you to manage the functions of the wrapper.

Control panel of the wrapper

If the remote steering option is installed on your wrapper, the control panel of the wrapper will contain two features:

1. A blue button to turn on the receiver of the remote function
2. A lever smaller than the four others, to manage the drive wheels of the wrapper. When this option is not installed, the wrapper will have a lever that is the same as the four others.



Figure 53 – Control panel with remote steering option

Receiver

The receiver of the remote steering allows the remote control to manage the wrapper. The receiver is installed inside the right frame at the rear of the wrapper to protect it from impacts and weather conditions.



Figure 54 – The receiver of the remote steering

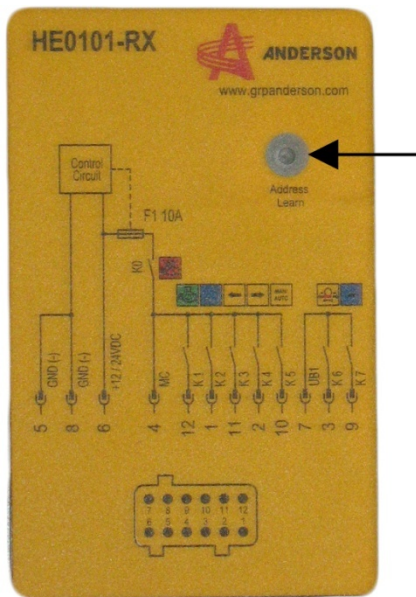


Figure 55 – Control panel of the remote steering option



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Explaining of the LED signal lights:

Red LED	Green LED	Yellow LED	Description
Lit	OFF	OFF	Connection problem (<i>output diagram</i>)
OFF	OFF	Blinking	Waiting for signal
OFF	Blinking	OFF	Signal received

Table 13 – LED signal lights description

Remote control

The remote control allows you to manage the wrapper at a distance. It allows you to use most of the operations for which the wrapper was conceived. The remote control is supplied with three alkaline batteries (AA).



Button	Fonction
1	Turn left
2	Turn right
3	Manual or Automatic section (Automatic pilot)
4	Button to select which side of the wrapper the automatic pilot is to follow
5	Pusher trigger on/ off ¹
6	---
7	Start engine
8	Stop Engine
LED	Indication light

Table 14 – Functions of the remote control

¹ Button used only with the Hybrid EVO wrapper.

LED light indications:


Red LED	Green LED	Description
ON	Blinking	Battery Low
OFF	Blinking	Normal signal
ON	ON	Bad signal
Blinking	OFF	Engine off (waiting for command)

Table 15 – Remote control led signals

Association of the remote and the receiver

The remote control and the receiver are associated together at the factory. If you lose or break the remote control, you will have to replace it and then have to associate it to the receiver. To connect the remote to the receiver proceed as follows:

1. Remove the Honda key from the ignition.

	<p>If you leave the key in the ignition, you risk that the engine be started on its own. This could cause serious injury or even death to the operator.</p>
<p>Danger!</p>	

2. Turn on the remote steering by pressing the blue button on the control panel (Figure 53).
3. Press and hold the start engine button on the remote control (button 7)
4. Press the **Address Learn** button (Figure 55) on the receiver. The led light **Address Learn** will blink green to indicate that the receiver has found a signal and the remote is now associated.
5. Release the buttons.



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Operation

To start the wrapper with the remote control, proceed as follows:

1. Push the blue button on the control panel of the wrapper (Figure 53). When the button is lit blue, the remote steering function is activated.

NOTE :

When the remote steering is engaged only the remote control will be able to start the engine.

If the engine is running when you press the blue button on the control panel the engine will automatically turn OFF.

2. Turn the engine key on the wrapper to **ON**.
3. Be sure that the Emergency shut off (Red button) is pulled out and the security gate is closed.
4. Press the green button on the remote to start the engine.

NOTE :

If the engine was stopped without the remote control, you will have to press the stop engine button on the remote control before you will be able to restart the engine with the remote control.

If the engine does not start, press the stop engine button on the remote control and then try to start the engine again.



Warning!

Always turn off the blue button on the control panel to be sure not to drain the battery of the wrapper when is not in use.

Steering the wrapper

To steer the wrapper with the remote control, press on the button left or right according to the direction that you would like to make.

NOTE : The wheels of the wrapper move by pulses. This avoids the wheels from turning completely in one direction when a button is pressed.

Troubleshooting

Problem	Possible causes	Solution
The remote control does not work	The battery is not charged or is dead	Replace the battery of the remote control. When you press on a button, the green LED will flash to indicate that the remote control is passing on a signal.
The remote is transmitting (the LED is blinking) but the machine is not responding.	The remote is out of range.	Move closer to the wrapper.
	The receiver is not turned on	Verify that the LED (address learn) of the receiver flashes and be sure that it is waiting for a signal (Figure 55)
	The remote is no longer associated to the receiver.	Associate the remote control to the receiver by following the instructions of the section. Association of the remote and the receiver
	There is a problem with the remote (turn off engine button).	Verify the stop engine button on the remote and retry.
	The battery on the wrapper is not charged enough.	Charge or replace the battery of the wrapper with one that has a charge of at least 12.5V.
Some functions of the wrapper do not work all of the time	The wires are not connected well	Check the connections of each of the functions that do not work correctly and clean the connections.
The engine will not start with the remote control	The security function is activating on the remote.	Press the stop engine on the remote and then retry the start engine.

Table 16 – Trouble with the remote steering

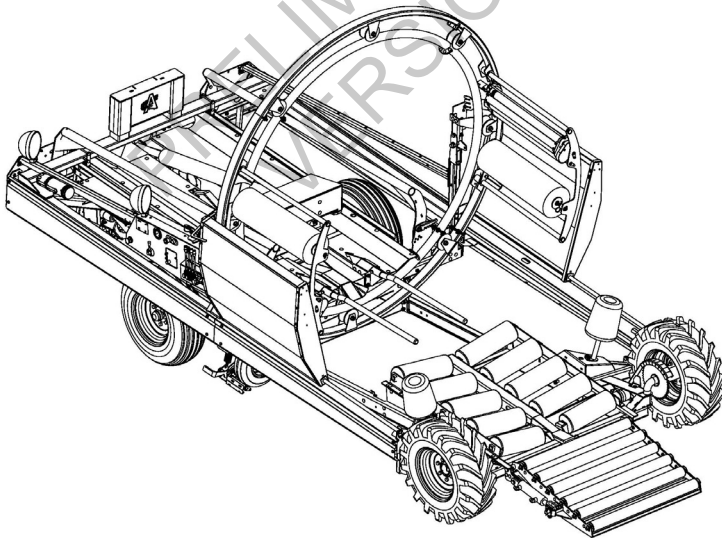


ANDERSON



Parts manual

ROUND BALE WRAPPER **NWX660**



ALWAYS KEEP THIS MANUAL WITH THE WRAPPER



19 novembre 2010

PRELIMINARY
VERSION

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For any parts order, please use the parts manual to find the item(s) you need and contact your dealer to order it or contact us directly at :

ANDERSON EQUIPMENT

5125 de la Plaisance
Chesterville (Québec)
CANADA G0P 1J0

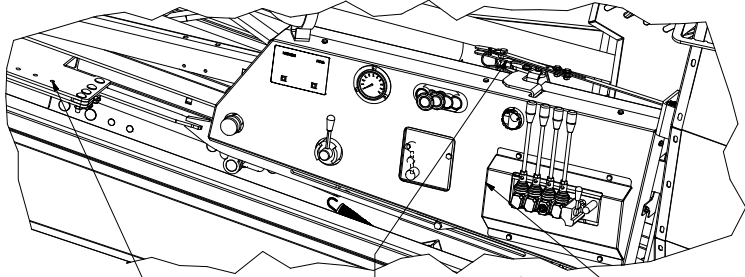
Fax : (819) 382-2218
Email : service@grpanderson.com

Visit our website → www.grpanderson.com

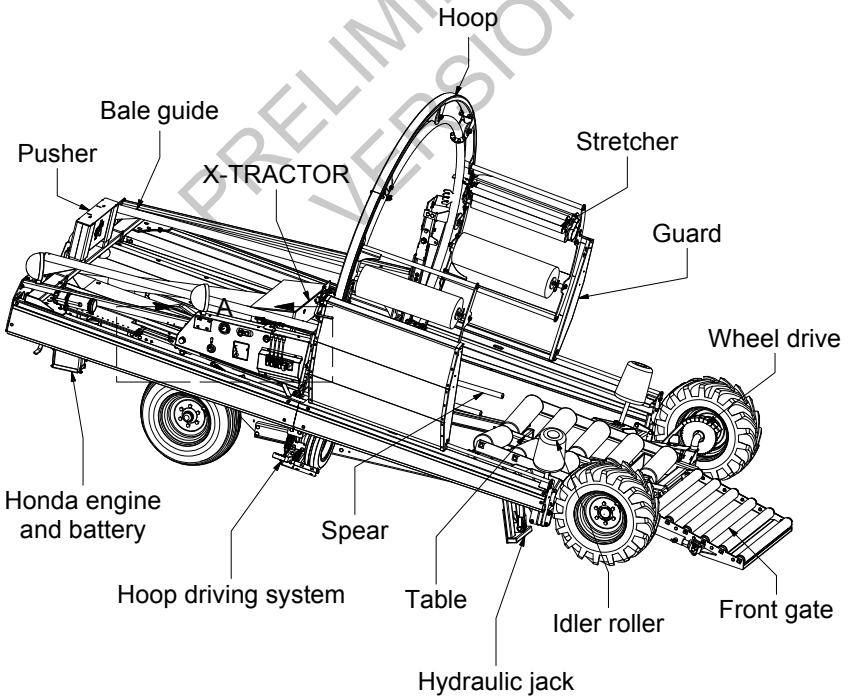
PRELIMINARY
VERSION

1 - GENERAL VIEW

DETAIL A



Plastic watch
Control panel
Pusher automatic system

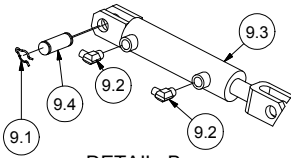


Hoop
Bale guide
Pusher
X-TRACTOR
Stretcher
Guard
Wheel drive
Honda engine and battery
Spear
Hoop driving system
Table
Idler roller
Front gate
Hydraulic jack

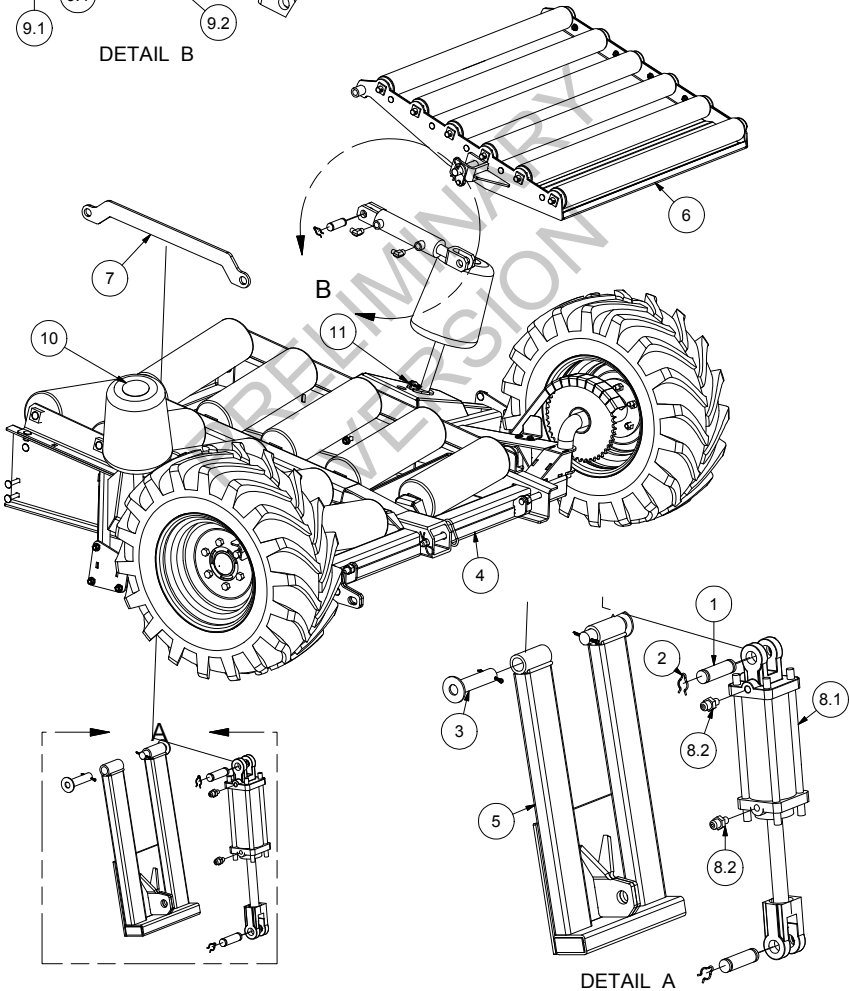
2 - COMPLETE FRONT SECTION

PARTS LIST

ITEM	QTY	PART	DESCRIPTION
1	2	467502	CYLINDER PIN
2	4	467501	CYLINDER CLIP PIN
3	2	210001	JACK LOCKING PIN
4	1	SEE OTHER PAGES	COMPLETE FRONT FRAME
5	1	210251	HYDRAULIC JACK
6	1	SEE OTHER PAGES	FRONT GATE
7	1	210252	FRONT GATE LOCKING PLATE
8.1	1	467228	HYDRAULIC CYLINDER
8.2	2	450543	HYDRAULIC FITTING
9.1	2	467501	CYLINDER CLIP PIN
9.2	2	450711	HYDRAULIC FITTING
9.3	1	467099	HYDRAULIC CYLINDER
9.4	1	467500	CYLINDER PIN
10	2	210832	IDLER ROLLER
11	2	320007	LINCHPIN



DETAIL B

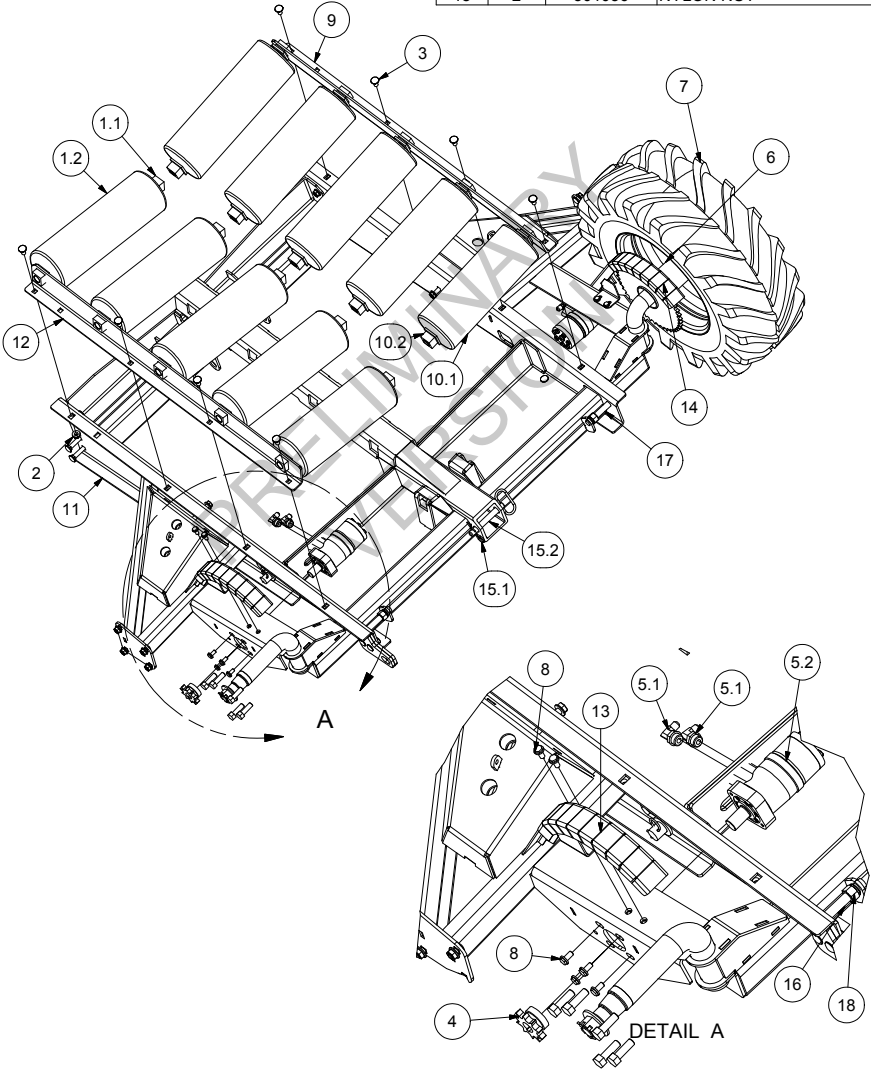


DETAIL A



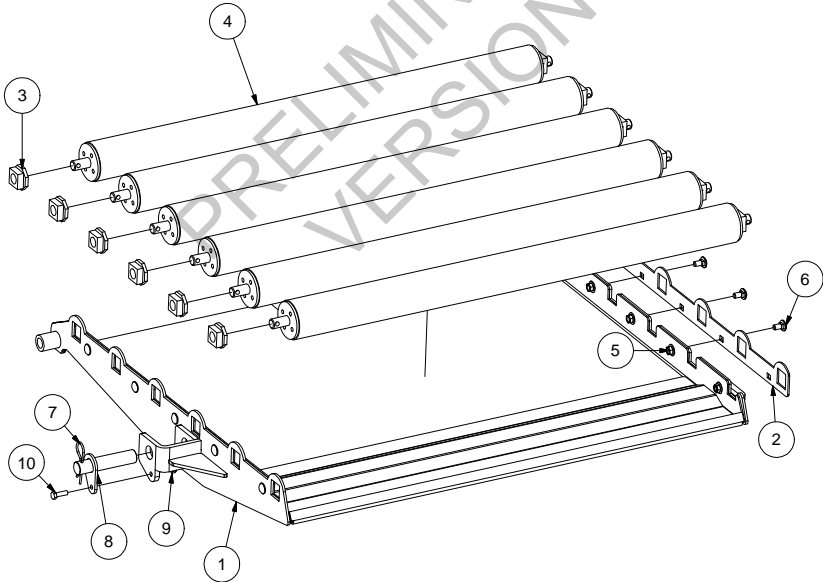
3 - FRAME FRONT SECTION

PARTS LIST				PARTS LIST			
ITEM	QTY	PART	DESCRIPTION	ITEM	QTY	PART	DESCRIPTION
1.1	16	279001	PLASTIC BUSHING	8	12	500600	FLANGE BOLT
1.2	8	224091	TABLE ROLLER	9	1	210253	LEFT SIDE V ROLL
2	32	501024	FLANGE NUT	10.1	2	210523	FRONT TABLE ROLLER
3	22	500500	CARRIAGE BOLT	10.2	4	279001	PLASTIC BUSHING
4	2	301010	SPROCKET	11	1	210554-1	FRONT FRAME
5.1	4	451262	HYDRAULIC FITTING	12	1	210255-1	RIGHT SIDE V ROLL
5.2	2	469159	HYDRAULIC MOTOR	13	1	210256	RIGHT SIDE GUARD
6	2	210015	HUB WHIT SROCKET	14	1	210257	LEFT SIDE GUARD
7	1	481503	FRONT TIRE AND RIM	15.1	1	320039	HITCH PIN
				15.2	1	320082	TOW BAR LOCKING PIN
				16	1	500297	BOLT
				17	1	500293	BOLT
				18	2	501036	NYLON NUT



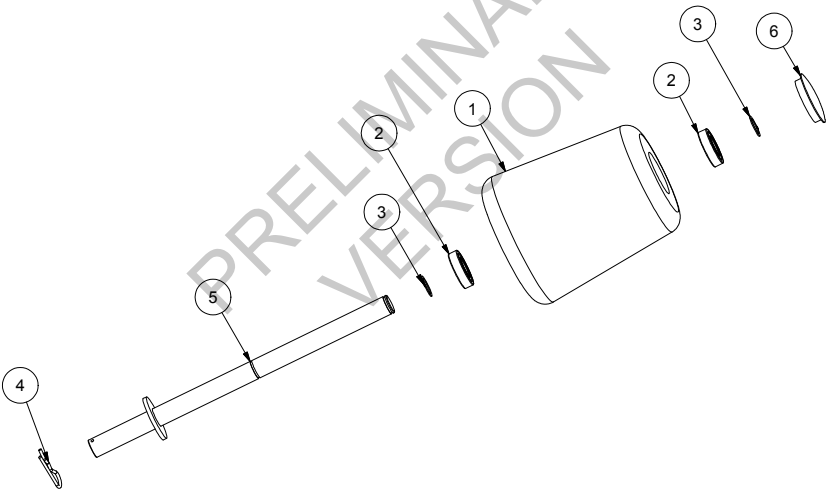
4 - FRONT GATE

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210258	FRONT GATE FRAME
2	1	210259	FRONT GATE ROLLER
3	12	279002	PLASTIC BUSHING
4	6	210802	FRONT ROLL
5	10	501022	FLANGE NUT
6	10	500440	CARRIAGE BOLT
7	1	320039	HITCH PIN
8	1	210260	FRONT GATE CYLINDER LOCKING PIN
9	1	501031	NYLON NUT
10	1	500044	BOLT



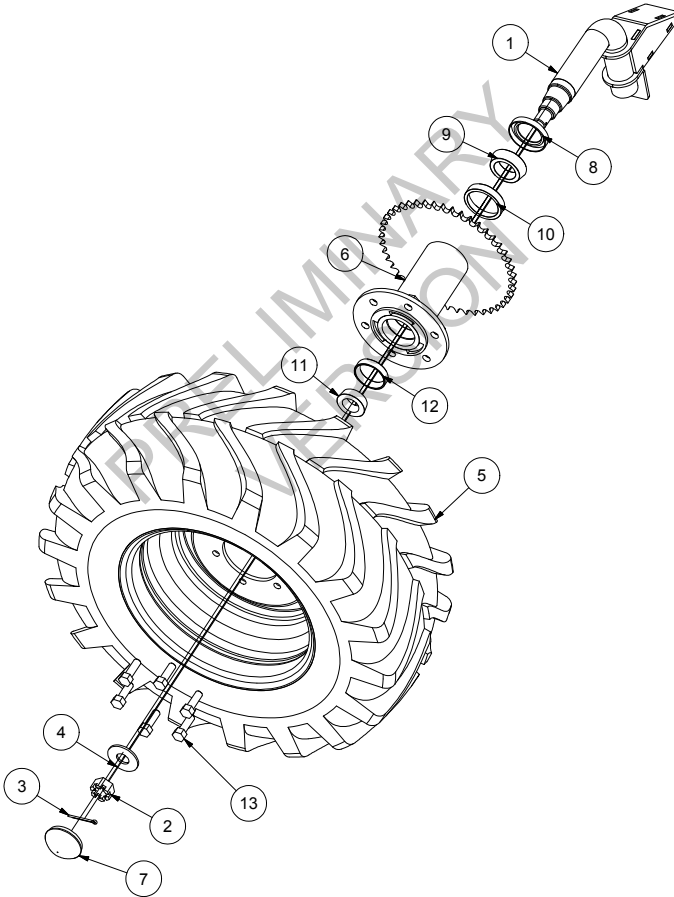
5 - SUPPORT ROLLER

LISTE DE PIÈCES			
ITEM	QTY	PART	DESCRIPTION
1	1	325112	SUPPORT ROLLER
2	2	303045	BEARING
3	2	320006	RETAINING RING
4	1	320010	HITCH PIN
5	1	210526	SUPPORT ROLLER SHAFT
6	1	325107	CAP

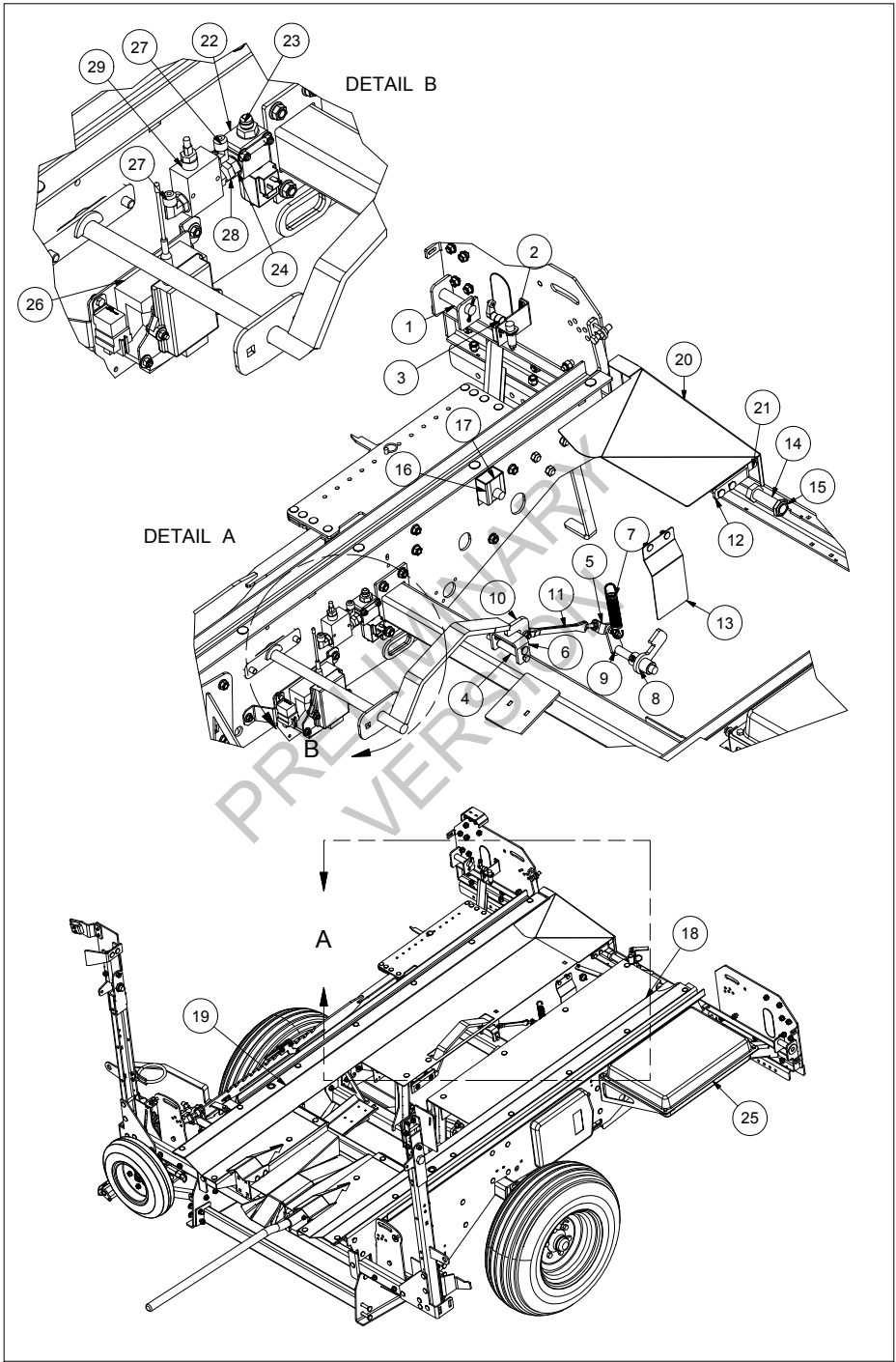


6 - FRONT SPINDLE

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210261	COMPLETE SPINDLE
2	1	501076	CASTLE NUT
3	1	320020	COTTER PIN
4	1	502011	FLAT WASHER
5	1	481503	TIRE AND RIM
6	1	210015	HUB WHIT SPROCKET
7	1	481005	DUST CAP
8	1	303500	SEAL
9	1	303501	BEARING
10	1	303099	BEARING
11	1	303034	BEARING
12	1	303037	ROLLING BEARING CAGE
13	6	507016	BOLT



7 - REAR FRAME



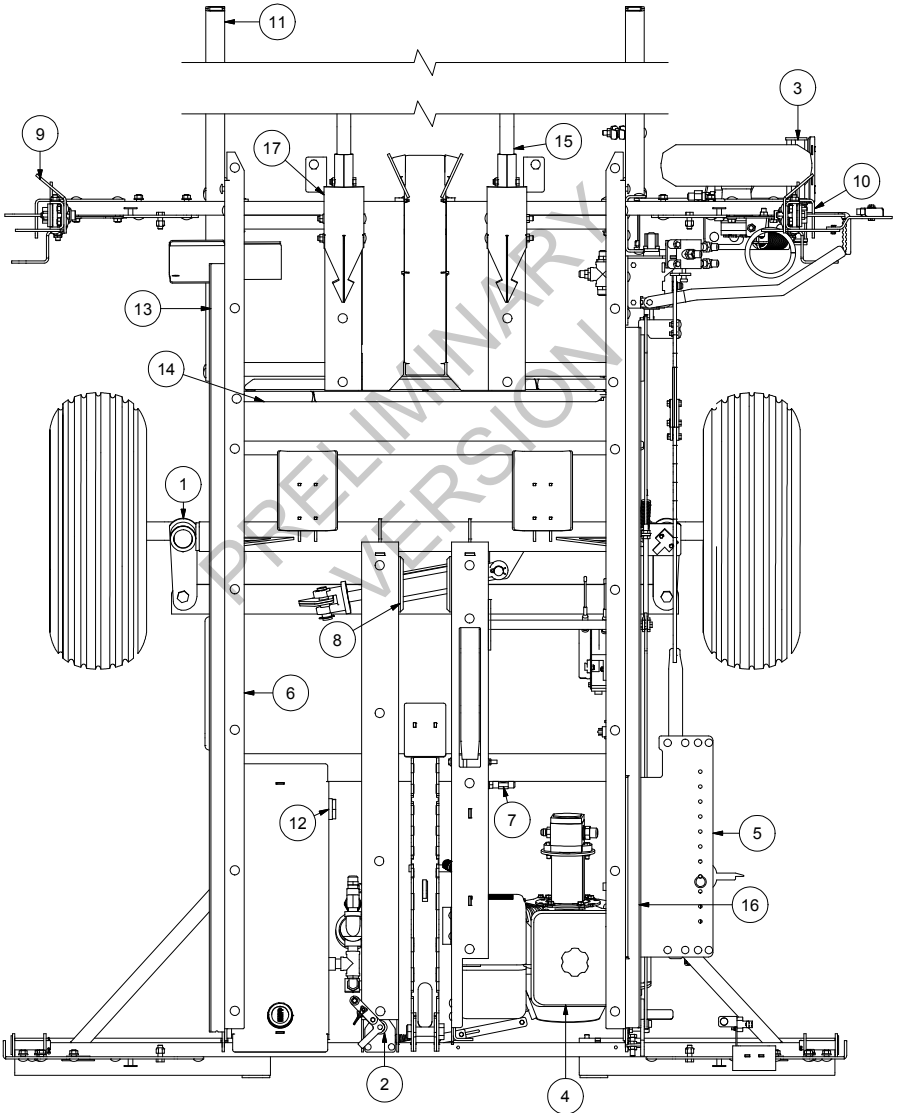
7 - REAR FRAME

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	2	210209	REAR CYLINDER PIN
2	1	210310	LIMIT SWITCH SUPPORT
3	1	315161	LIMIT SWITCH
4	1	210323	SPACER
5	1	210211	PIVOT
6	1	210312	LOCK 1
7	1	304001	SPRING
8	1	210313	LOCK 2
9	1	210314	LOCK 3
10	1	210315	LOCK 4
11	1	210316	LOCK 5
12	1	210317	ENGINE COVER SUPPORT
13	1	210618	HEAT DEFLECTOR
14	1	500328	BOLT
15	1	501057	HALF NYLON NUT
16	1	210823	REMOTE STARTER HOLDER
17	1	315052	REMOTE CONTROL
18	1	210320	LEFT PLATE
19	1	210321	RIGHT PLATE
20	1	210322	ENGINE COVER
21	1	325115	RUBBER DOOR HOLDER
22	1	465043	VALVE
23	1	451178	HYDRAULIC FITTING
25	1	T1-GAZ	GAZ TANK
26	1	T1-CE	REMOTE STEERING
26	1	T1-PA	AUTOMATIC PILOT
27	2	451265	HYDRAULIC FITTING
28	1	451366	HYDRAULIC FITTING
29	1	466014	RELIEF VALVE

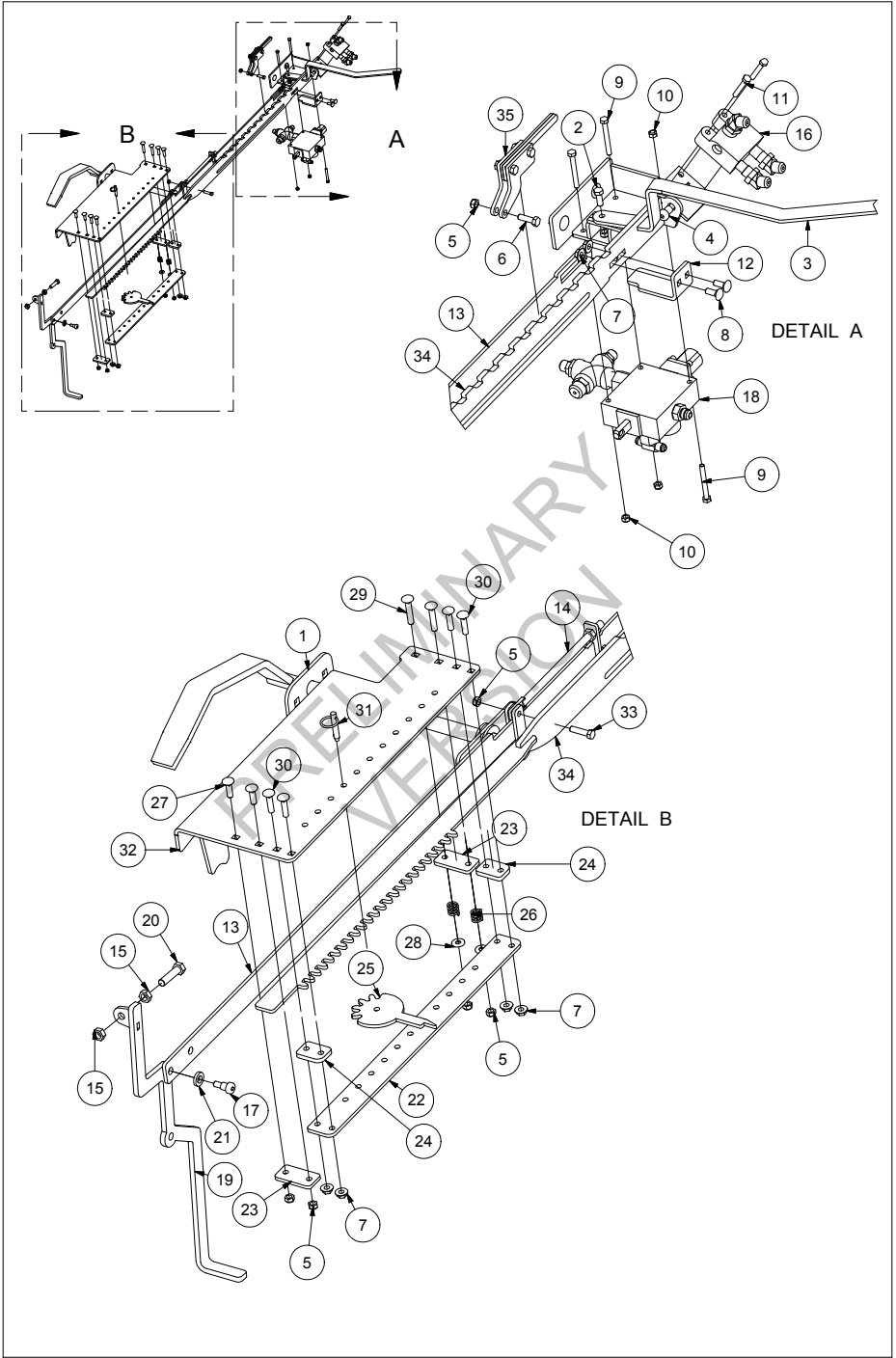


7- REAR FRAME

PARTS LIST				PARTS LIST			
ITEM	QTY	PART	DESCRIPTION	ITEM	QTY	PART	DESCRIPTION
1	1	***	STEERING WHEEL	10	1	***	RIGHT HOOP SUPPORT
2	1	***	COMPLETE TROTTLE	11	1	210262	FRAME LINKING BEAM
3	1	***	COMPLETE DRIVE DRIVE WHEEL	12	1	***	TANK
4	1	***	POWER UNIT	13	1	210087	GUIDE
5	1	***	AUTOMATIC SYSTEM	14	2	210263-1	X-REINFORCMENT
6	1	210264-1	REAR FRAME	15	2	***	COMPLETE SPEAR
7	1	450863	HYDRAULIC FITTING	16	1	210263-1	LEF RIGHT GUIDE
8	2	308009	TIVAR 2	17	2	210265-1	SPEAR COVER
9	1	***	LEFT HOOP SUPPORT				



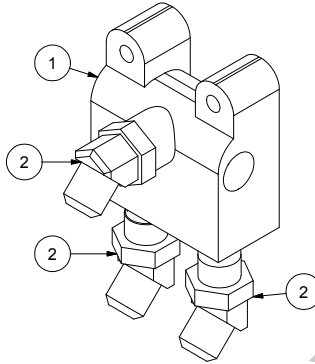
8 - AUTOMATIC SYSTEM



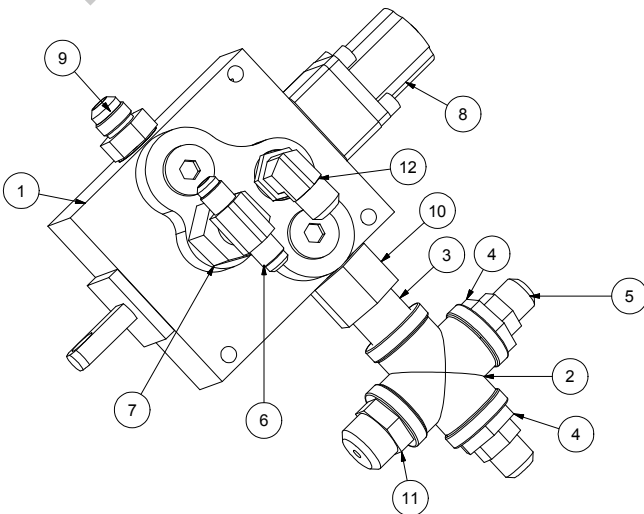
8 - AUTOMATIC SYSTEM

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210269	TRIGGER FOR AUTOMATIC SYSTEM
2	1	500084	BOLT
3	1	210270	PUSHER MANUAL TRIGGER
4	1	500578	SHOULDER SCREW
5	8	501032	NYLON NUT
6	4	500086	BOLT
7	8	501022	FLANGE NUT
8	2	500442	CARRIAGE BOLT
9	3	500057	BOLT
10	5	501031	NYLON NUT
11	2	500052	BOLT
12	1	210662-1	AUTOMATIC SYSTEM RETURN STOPPER
13	1	210663-1	PUSHER ACTIVATION PLATE
14	1	210784	SYS. AUTO. ADJUSTEMENT ROD
15	4	501004	NUT
16	1	OTHERS PAGE	HYDRAULIC VALVE
17	1	500570	SHOULDER SCREW
18	1	OTHERS PAGE	HYDRAULIC VALVE
19	1	210149-2	TRANSFERT BAR
20	1	500180	BOLT
21	1	210148	SPACER
22	1	210781	POINT PLATE SUPPORT
23	2	210656-1	RACK IN PINION SUPPORT PLATE
24	2	210814	POINT PLATE SUPPORT
25	1	210655-1	RACK IN PINION POINT PLATE
26	2	310014	SPRING
27	2	500443	CARRIAGE BOLT
28	2	502004	FLAT WASHER
29	2	500446	CARRIAGE BOLT
30	4	500444	CARRIAGE BOLT
31	1	320025-2	QR PIN
32	1	210271	RACK IN PINION SUPPORT
33	1	500088	BOLT
34	1	210272	RACK IN PINION
35	2	210273	STOPPER SYSTEM

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	465880-1	HYDRAULIC VALVE
2	3	451229	HYDRAULIC FITTING

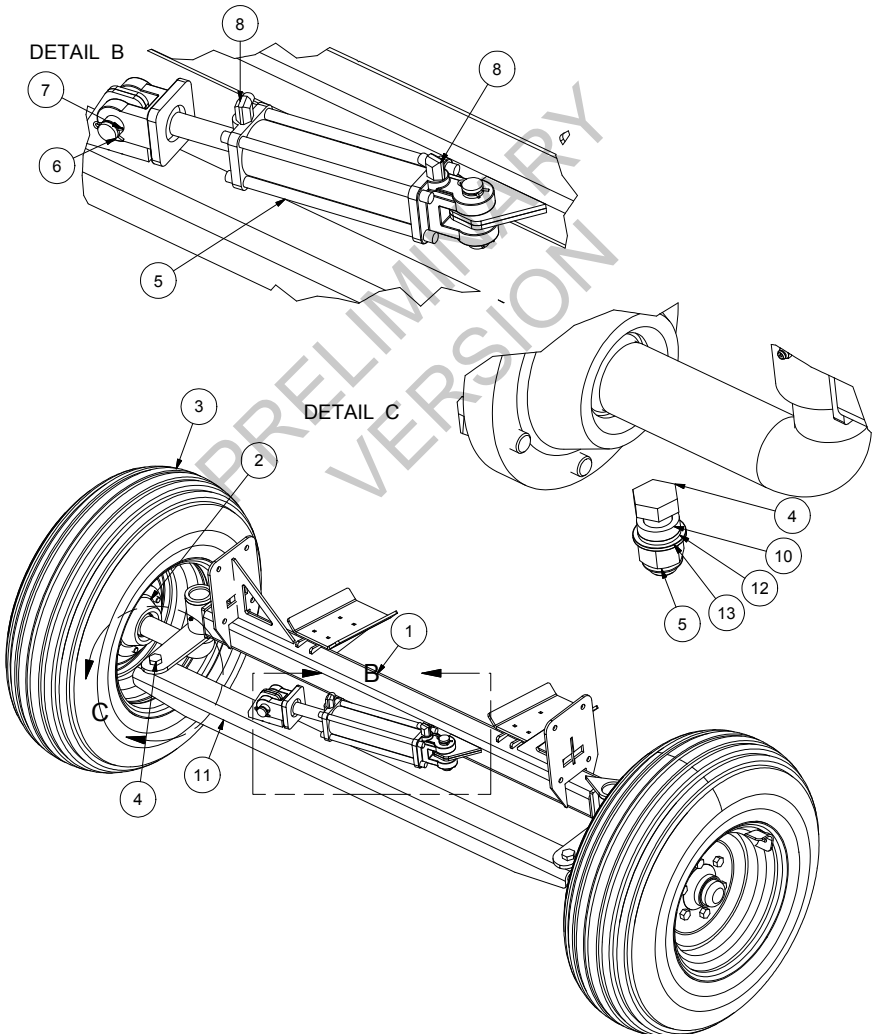


PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	465002	VALVE
2	1	451799	CROSS
3	1	451985	NIPPLE
4	2	451998	REDUCER
5	2	450548	HYDRAULIC FITTING
6	1	450827	HYDRAULIC FITTING
7	1	451120	HYDRAULIC FITTING
8	1	465003	DETENT KIT
9	1	451179	HYDRAULIC FITTING
10	1	451124	HYDRAULIC FITTING
11	1	450558	HYDRAULIC FITTING
12	1	451265	HYDRAULIC FITTING



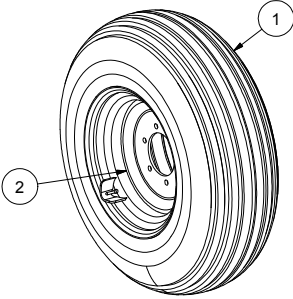
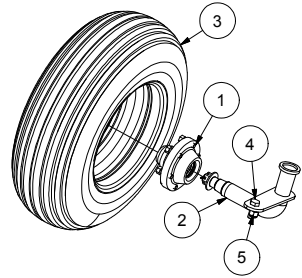
9 - STEERING AXLE

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210274	STEERING AXLE BEAM
2	1	481450	HUB
3	2	481507	TIRE AND RIM
4	2	500285	BOLT
5	1	467215	HYDRAULIC CYLINDER
6	2	467502	CYLINDER AXLE
7	4	467501	CYLINDER CLIP PIN
8	2	450711	HYDRAULIC FITTING
9	1	210275	DIRECTION ANGLE ARM
10	2	210341	SPACER 1
11	1	210275-1	DIRECTION ANGLE ARM
12	2	210342	SPACER 2
13	2	502006	FLAT WASHER

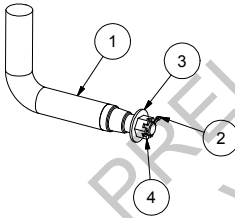


10 - REAR AXLE

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	481453	COMPLET HUB
2	1	210151	SPINDLE
3	1	481507	TIRE AND RIM
4	1	500213	BOLT
5	1	501036	NYLON NUT

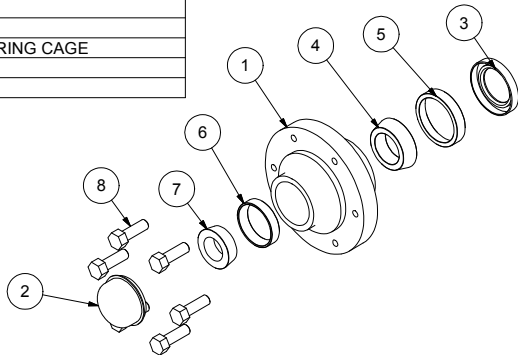


PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	481602	TIRE
2	1	481702	RIM



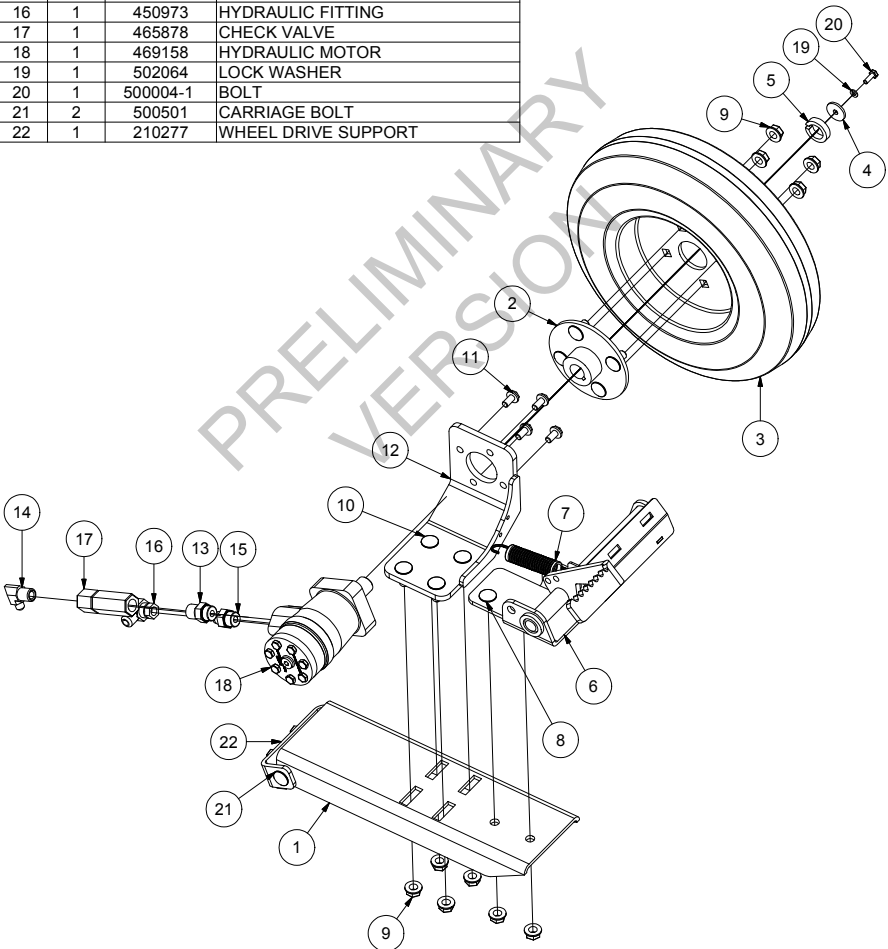
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	481107	AXLE
2	1	320020	COTTER PIN
3	1	502011	FLAT WASHER
4	1	501076	CASTLE NUT

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	481450	HUB
2	1	481002	HUB CAP
3	1	303500	DUST CAP
4	1	303501	BEARING
5	1	303099	BEARING
6	1	303037	ROLLING BEARING CAGE
7	1	303034	BEARING
8	6	507016	WHEEL BOLT



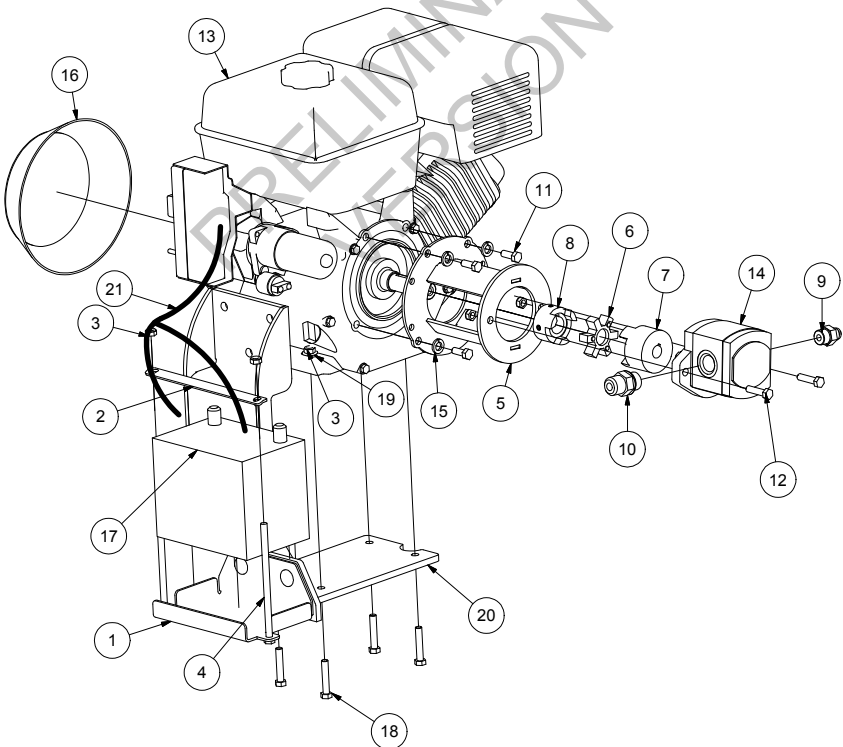
11 - HOOP WHEEL DRIVE

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210324-1	BRAKE SUPPORT
2	1	210628	HUB
3	1	481505	TIRE AND RIM
4	1	210629	WASHER
5	1	210630	WASHER
6	1	210634-1	DRIVE WHEEL BRAKE
7	1	304001	SPRING
8	2	500500	CARRIAGE BOLT
9	10	501024	FLANGE NUT
10	4	500501	CARRIAGE BOLT
11	4	500602	FLANGE BOLT
12	1	210276	MOTOR SUPPORT
13	1	451097	HYDRAULIC FITTING
14	1	450712	HYDRAULIC FITTING
15	1	451179	HYDRAULIC FITTING
16	1	450973	HYDRAULIC FITTING
17	1	465878	CHECK VALVE
18	1	469158	HYDRAULIC MOTOR
19	1	502064	LOCK WASHER
20	1	500004-1	BOLT
21	2	500501	CARRIAGE BOLT
22	1	210277	WHEEL DRIVE SUPPORT

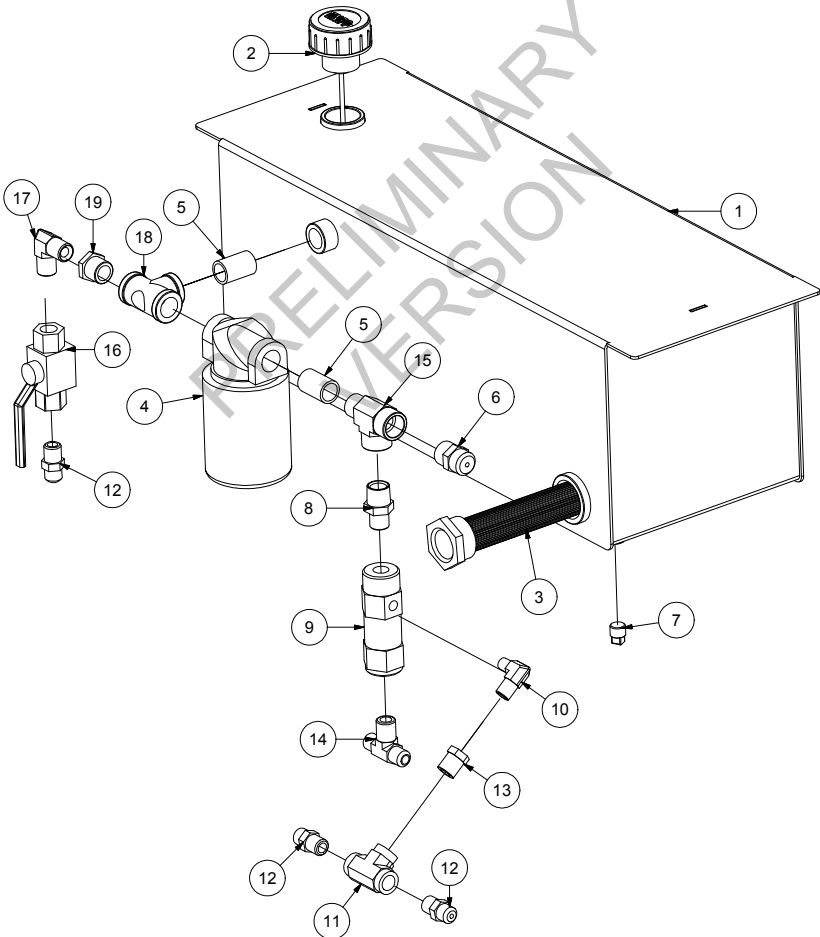


12 - POWER UNIT

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210652	BATTERY SUPPORT
2	1	210650	BATTERY ATTACHMENT
3	6	501032	NYLON NUT
4	2	500114	BOLT
5	1	322008	POMP ADAPTOR
6	1	322020	INSERT
7	1	322042	COUPLING
8	1	322050	COUPLING
9	1	451179	HYDRAULIC FITTING
10	1	451190	HYDRAULIC FITTING
11	4	500084	BOLT
12	2	500088	BOLT
13	1	610006	ENGINE
14	1	468500	HYDRAULIC POMP
15	4	502045	LOCK WASHER
16	1	210649	AIR FILTER FOR CRANK
17	1	470113	BATTERY
18	4	500092	BOLT
19	4	502004	FLAT WASHER
20	1	210278-1	ENGINE SUPPORT
21	1	315044	BATTERY ENGINE WIRE



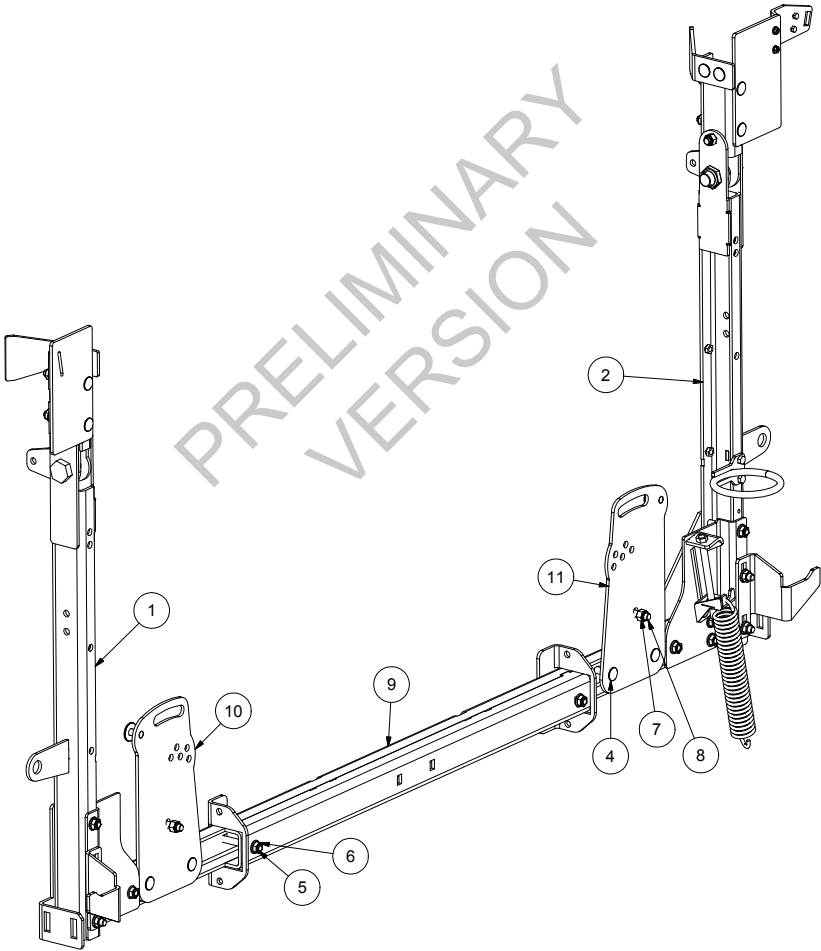
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210279	TANK
2	1	470112	PLUG
3	1	470990	STRAINER
4	1	470013	FILTER
5	2	451985	HYDRAULIC FITTING
6	1	450558	HYDRAULIC FITTING
7	1	470117	PLUG
8	1	450010	HYDRAULIC FITTING
9	1	465905	PILOT OPERATED CHECK VALVE
10	1	450193	HYDRAULIC FITTING
11	1	450243	HYDRAULIC FITTING
12	3	450548	HYDRAULIC FITTING
13	1	450025	HYDRAULIC FITTING
14	1	450829	HYDRAULIC FITTING
15	1	450273	HYDRAULIC FITTING
16	1	466999	HYDRAULIC VALVE
17	1	450196	HYDRAULIC FITTING
18	1	451992	HYDRAULIC FITTING
19	1	451998	HYDRAULIC FITTING



13 - HOOP SUPPORT

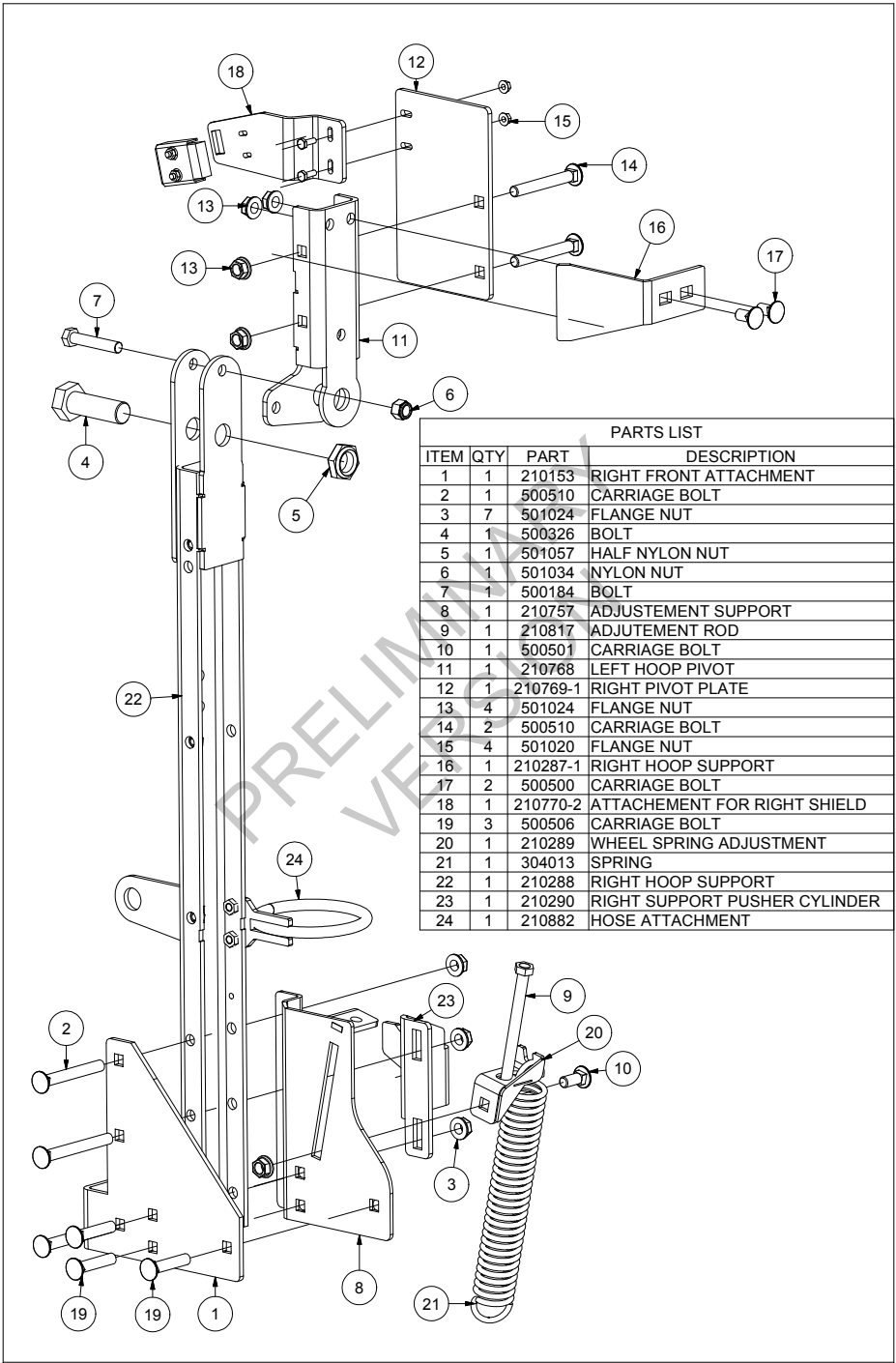
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	***	LEFT HOOP SUPPORT
2	1	***	RIGHT HOOP SUPPORT
3	1	308011	PIN
4	4	500506	CARRIAGE BOLT
5	2	500510	CARRIAGE BOLT
6	6	501024	FLANGE NUT
7	2	501034	NYLON NUT
8	2	500177	BOLT
9	1	***	WITH THE FRAME
10	1	210343	FRONT RIGHT BALE GUIDE SUPPORT
11	1	210344	FRONT RIGHT BALE GUIDE SUPPORT

***SEE OTHERS PAGE





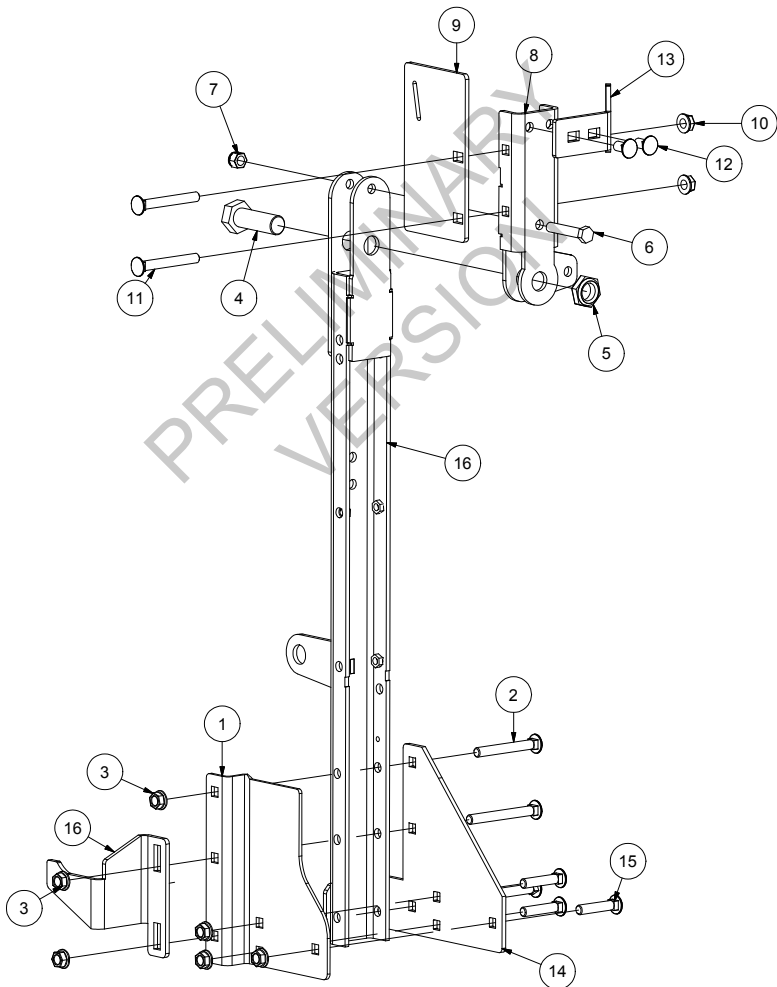
13 - RIGHT HOOP SUPPORT



PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210153	RIGHT FRONT ATTACHMENT
2	1	500510	CARRIAGE BOLT
3	7	501024	FLANGE NUT
4	1	500326	BOLT
5	1	501057	HALF NYLON NUT
6	1	501034	NYLON NUT
7	1	500184	BOLT
8	1	210757	ADJUSTEMENT SUPPORT
9	1	210817	ADJUTEMENT ROD
10	1	500501	CARRIAGE BOLT
11	1	210768	LEFT HOOP PIVOT
12	1	210769-1	RIGHT PIVOT PLATE
13	4	501024	FLANGE NUT
14	2	500510	CARRIAGE BOLT
15	4	501020	FLANGE NUT
16	1	210287-1	RIGHT HOOP SUPPORT
17	2	500500	CARRIAGE BOLT
18	1	210770-2	ATTACHEMENT FOR RIGHT SHIELD
19	3	500506	CARRIAGE BOLT
20	1	210289	WHEEL SPRING ADJUSTMENT
21	1	304013	SPRING
22	1	210288	RIGHT HOOP SUPPORT
23	1	210290	RIGHT SUPPORT PUSHER CYLINDER
24	1	210882	HOSE ATTACHMENT

13- LEFT HOOP SUPPORT

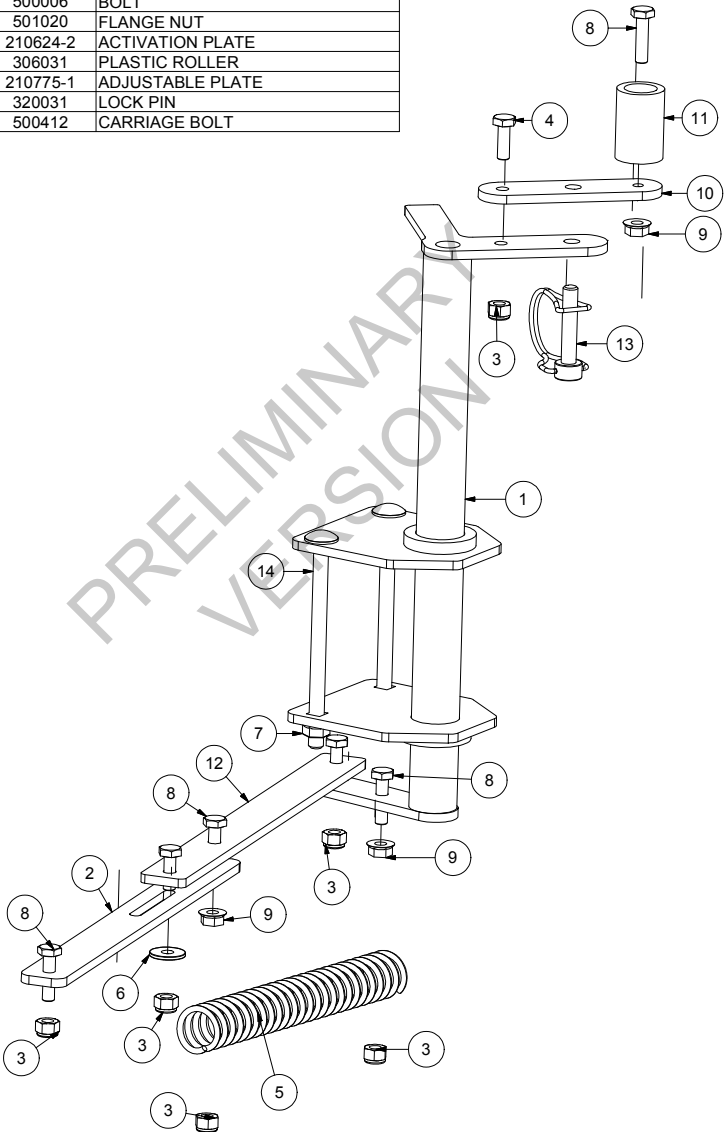
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210608-1	LEFT REAR ATTACHEMENT PLATE
2	1	500510	CARRIAGE BOLT
3	6	501024	FLANGE NUT
4	1	500326	BOLT
5	1	501057	HALF NYLON NUT
6	1	500184	BOLT
7	1	501034	NYLON NUT
8	1	210772	LEFT HOOP PIVOT
9	1	210841	LEFT PIVOT PLATE
10	4	501024	FLANGE NUT
11	2	500510	CARRIAGE BOLT
12	2	500500	CARRIAGE BOLT
13	1	210287-1	HOOP ATTACHMENT
14	1	210156	LEFT FRONT ATTACHMENT PLATE
15	3	500506	CARRIAGE BOLT
16	1	210290-1	PUSHER LEFT CYLINDER SUPPORT





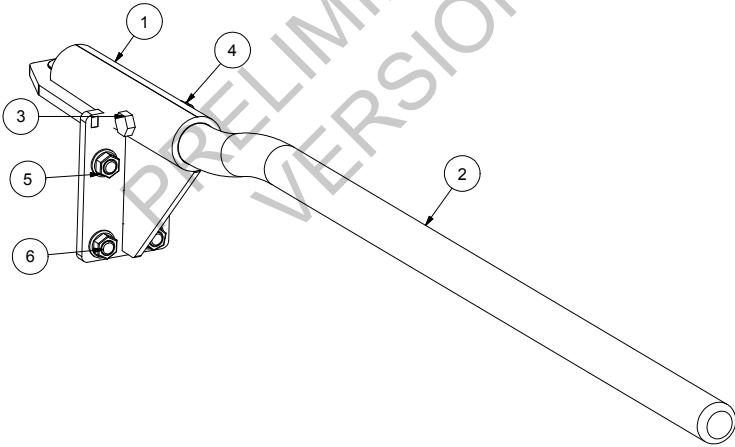
14 - THROTTLE CONTROL

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210280	THROTTLE HANDLE
2	1	210281	ADJUSTABLE PLATE
3	6	501030	NYLON NUT
4	3	500004	BOLT
5	1	310015	SPRING
6	1	502002	FLAT WASHER
7	2	501021	FLANGE NUT
8	4	500006	BOLT
9	3	501020	FLANGE NUT
10	1	210624-2	ACTIVATION PLATE
11	1	306031	PLASTIC ROLLER
12	1	210775-1	ADJUSTABLE PLATE
13	1	320031	LOCK PIN
14	2	500412	CARRIAGE BOLT



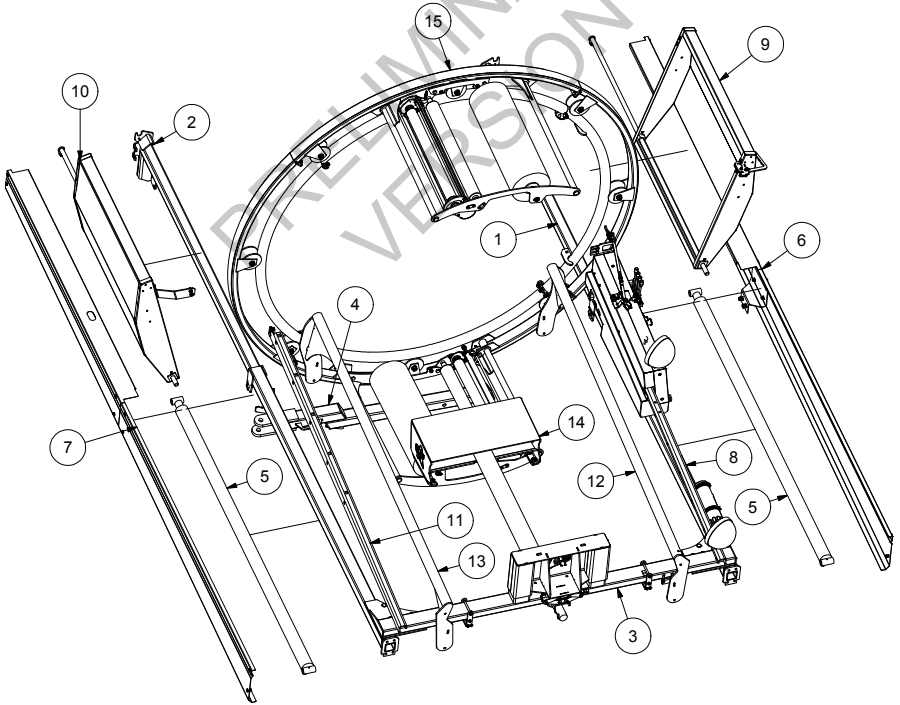
15 - COMPLETE SPEAR

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210291	SPEAR SUPPORT
2	1	206622-02	SPEAR
3	1	500182	BOLT
4	1	501054	HALF NYLON NUT
5	5	501024	FLANGE NUT
6	5	500501	CARRIAGE BOLT

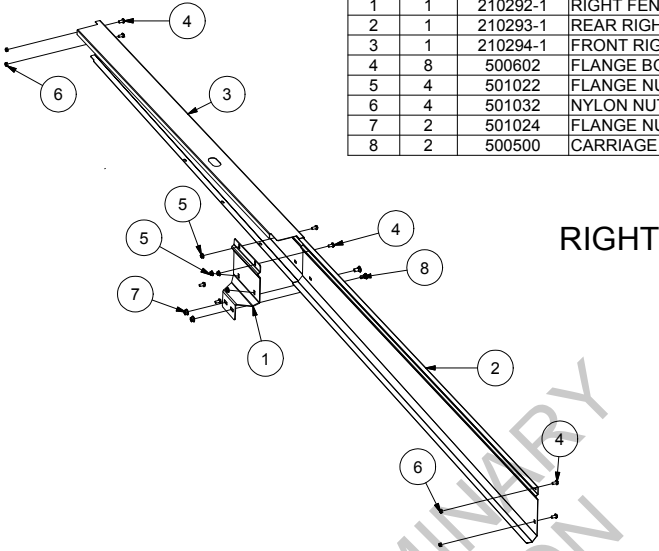


PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	2	210283-1	RIGHT PUSHER FRAME
2	1	210284-1	LEFT PUSHER FRAME
3	1	***	PUSHER AND FRAME
4	1	210285	POLE
5	2	467289	PUSHER CYLINDER
6	1	***	COMPLETE RIGHT FENDER
7	1	***	COMPLETE LEFT FENDER
8	1	***	RIGHT HOOP SUPPORT REINFORCEMENT
9	1	***	COMPLETE RIGHT GAIRD
10	1	***	COMPLETE LEFT GAIRD
11	1	210286	LEFT HOOP SUPPORT REINFORCEMENT
12	1	210172-1	RIGHT BAILE GUIDE
13	1	210173-1	LEFT BAILE GUIDE
14	1	***	X-TRACTOR CYLINDER
15	1	***	COMPLETE HOOP

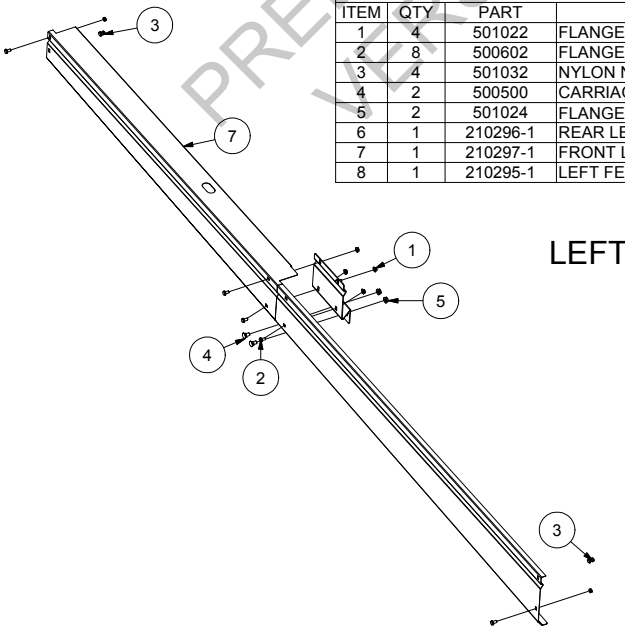
***SEE OTHERS PAGE



PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210292-1	RIGHT FENDER UNION
2	1	210293-1	REAR RIGHT FENDER
3	1	210294-1	FRONT RIGHT FENDER
4	8	500602	FLANGE BOLT
5	4	501022	FLANGE NUT
6	4	501032	NYLON NUT
7	2	501024	FLANGE NUT
8	2	500500	CARRIAGE BOLT

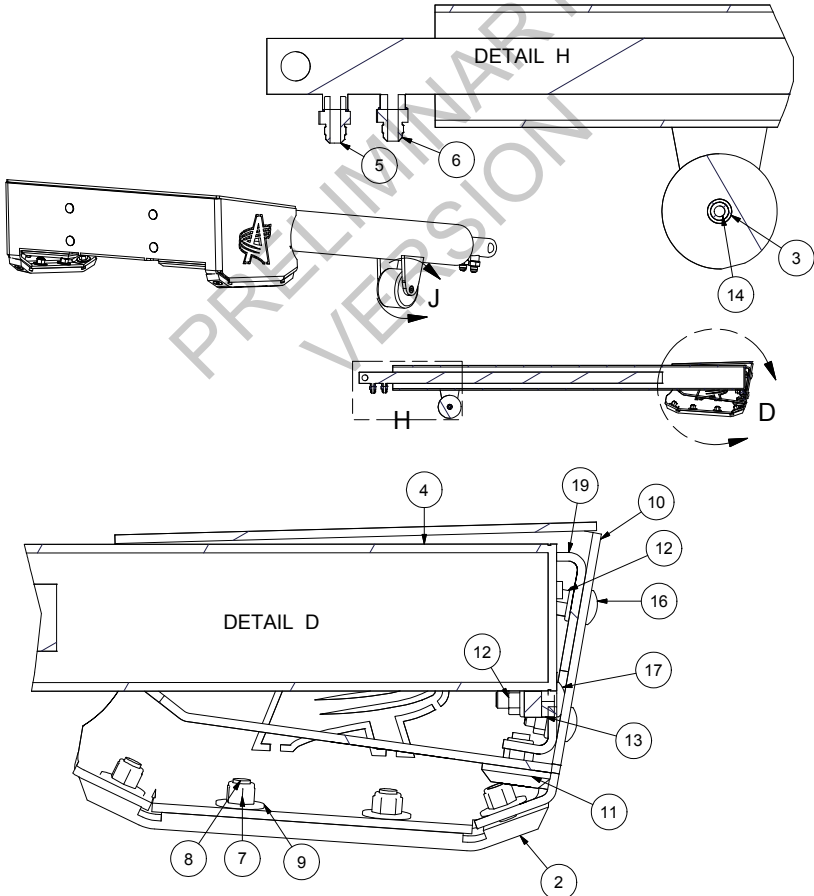
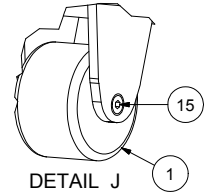


PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	4	501022	FLANGE NUT
2	8	500602	FLANGE BOLT
3	4	501032	NYLON NUT
4	2	500500	CARRIAGE BOLT
5	2	501024	FLANGE NUT
6	1	210296-1	REAR LEFT FENDER
7	1	210297-1	FRONT LEFT FENDER
8	1	210295-1	LEFT FENDER UNION



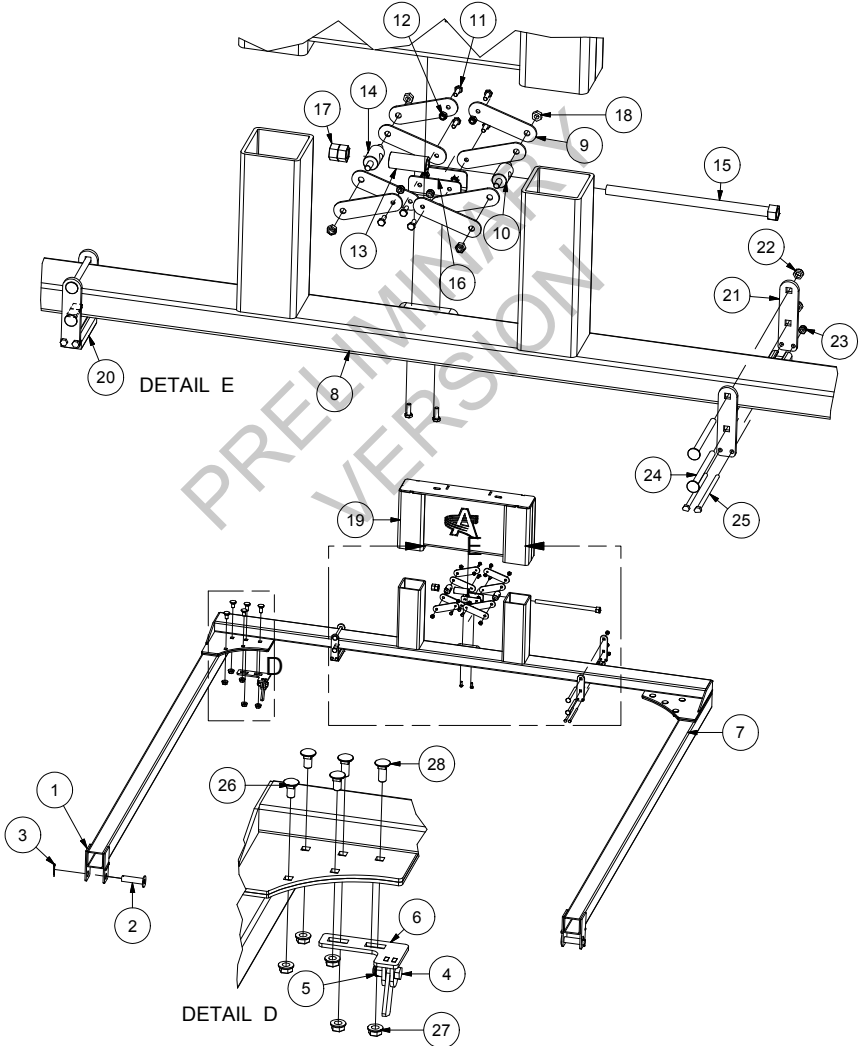
18 - PUSHER CYLINDER

LISTE DE PIÈCES			
ITEM	QTÉ	PIÈCE	DESCRIPTION
1	1	308007	CYLINDER WHEEL
2	2	308008-1	TEFLON
3	1	308013	SPACER BUSHING
4	1	467317	X-TRACTOR CYLINDER
5	1	451178	ADAPTEUR HYDRAULIQUE
6	1	451179	ADAPTEUR HYDRAULIQUE
7	12	501034	ÉCROU NYLON
8	12	507054	VIS A TÊTE FRAISÉ A 6 PANS
9	8	502006	RONDELLE
10	1	210309-1	PUSHER PLATE
11	2	308009	TIVAR 2
12	8	501024	ÉCROU À ÉPAULEMENT
13	1	210346	SPACER PLATE
14	1	308012	WHEEL ATTACHMENT
15	2	507053-1	VIS A TÊTE FRAISÉ A 6 PANS
16	4	500501	BOULON DE CARROSSERIE
17	2	500503	BOULON DE CARROSSERIE
18	2	500179	BOULON
19	1	210345	PUSHER SUPPORT PLATE



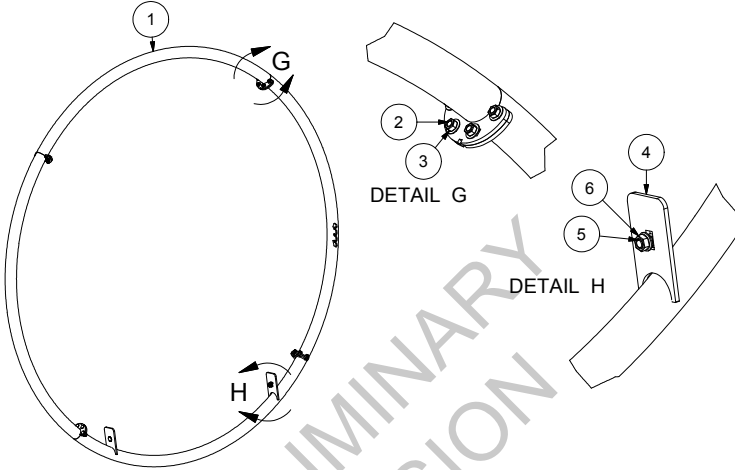
18 - COMPLETE PUSHER

PARTS LIST				PARTS LIST			
ITEM	QTY	PART	DESCRIPTION	ITEM	QTY	PART	DESCRIPTION
1	4	210298	RIGHT CYLINDER SUPPORT	15	1	210792	ADJUSTMENT ROD
2	2	210183	CYLINDER LOCK PIN	16	1	210791	JACK SUPPORT
3	2	320043	COTTER PIN	17	2	501005	NUT
4	1	500177	BOLT	18	4	501042	NUT
5	1	501034	NYLON NUT	19	1	210301	PUSHER
6	1	210181-1	WEDGE SUPPORT	20	2	210671	TEFLON
7	2	210299	LEFT CYLINDER SUPPORT	21	4	210562	TEFLON SUPPORT
8	1	210300	PUSHER SUPPORT	22	4	501032	NYLON NUT
9	8	210790	LIFTING PLATE	23	4	501030	NYLON NUT
10	1	306020	LEVER PIVOT	24	4	500456	CARRIAGE BOLT
11	10	500004	BOLT	25	4	500026	BOLT
12	8	501030	NYLON NUT	26	7	500500	CARRIAGE BOLT
13	1	210816	STOPPER	27	9	501024	FLANGE NUT
14	1	306022	LEVER PIVOT	28	2	500501	CARRIAGE BOLT



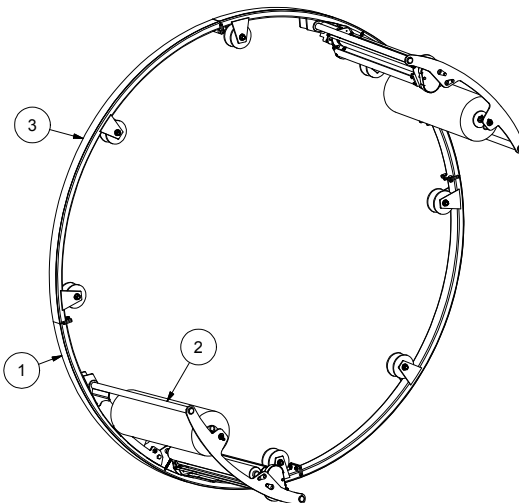
INSIDE HOOP

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	4	210576-1	INSIDE HOOP SECTION
2	16	500442	CARRIAGE BOLT
3	16	501022	FLANGE NUT
4	2	210836	BOTTOM HOOP ATTACHMENT
5	2	500500	CARRIAGE BOLT
6	2	501024	FLANGE NUT



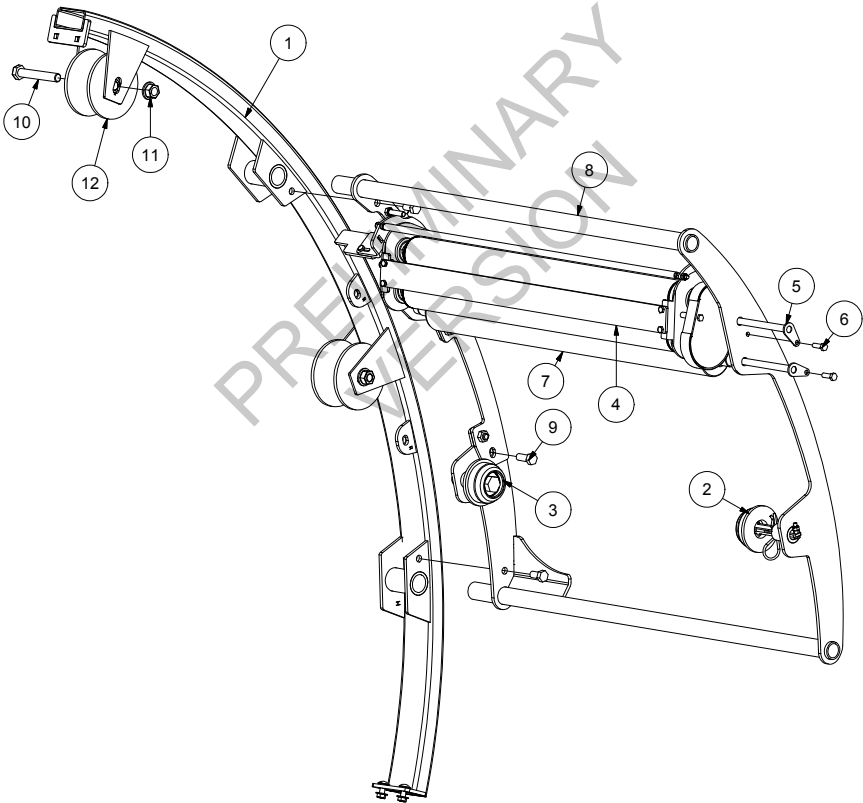
OUTSIDE HOOP

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	2	210580-2	STRETCHER HOOP SECTION
2	2	***	SEE OTHER PAGE
3	2	210581-2	HOOP SECTION



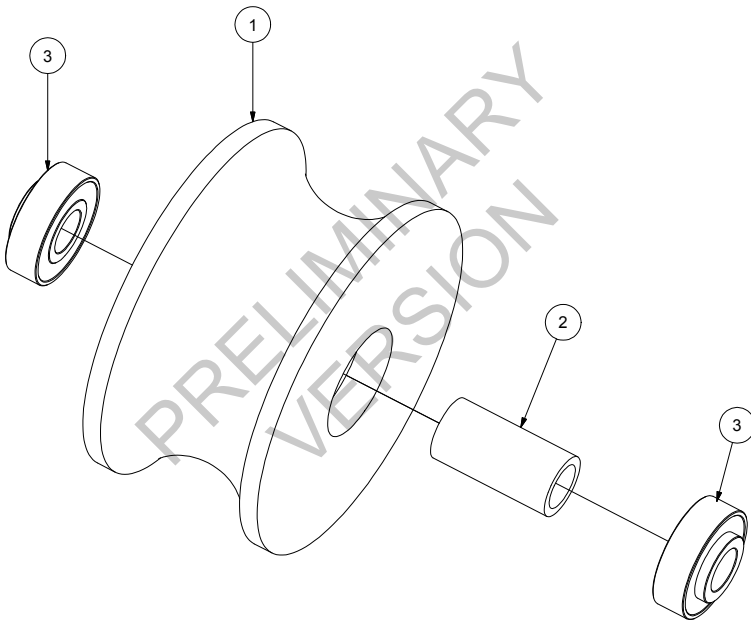
19 - STRETCHER ROLL SECTION

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	4	210580-2	OUTSIDE HOOP SECTION
2	2	210584	PLASTIC ROLLER ADJUSTABLE HOLDER
3	2	210583	PLASTIC ROLLER FIXED HOLDER
4	2	279004	COMPLETE STRETCHER
5	4	210585	RETAINING ROD
6	4	500044	BOLT
7	2	279005	BLACK ROLLER ON STRETCHER
8	2	210744	STRETCHER FRAME
9	4	500175	BOLT
10	8	500254	BOLT
11	8	501025	FLANGE NUT
12	8	***	SEE OTHER PAGE

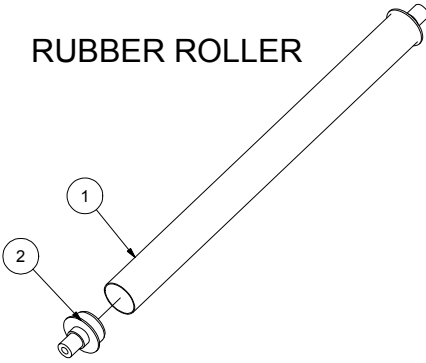


19 - OUTSIDE ROLL

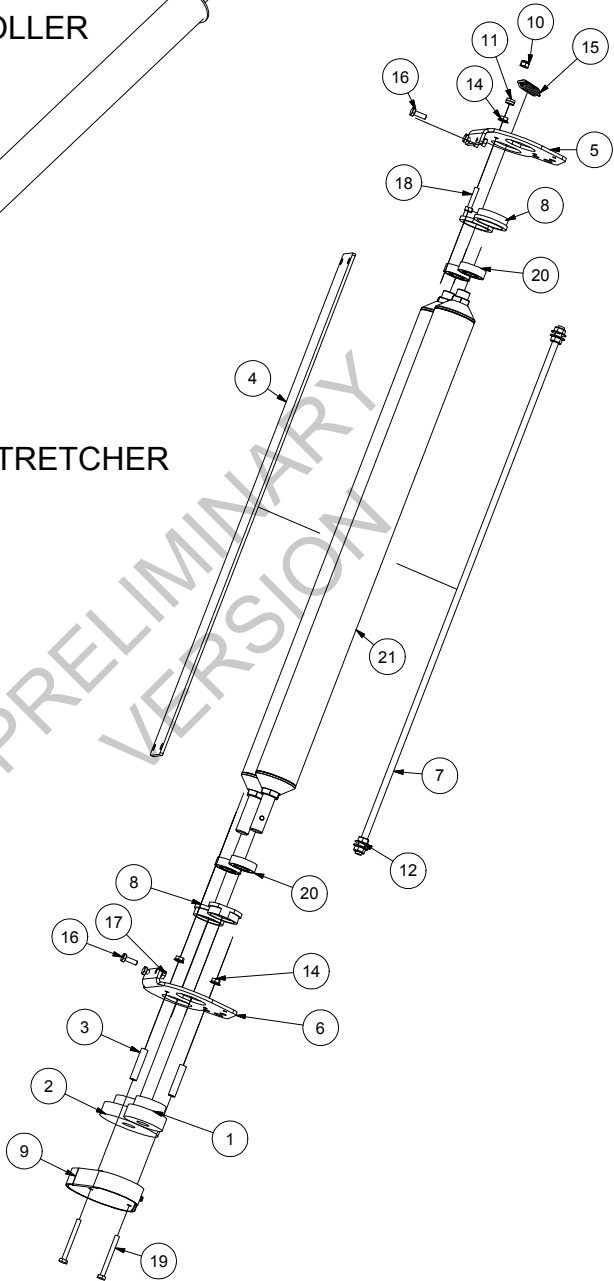
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	306014-1	HOOP CASTER
2	1	306019-1	SPACER
3	2	303021-2	BEARING



RUBBER ROLLER



STRETCHER



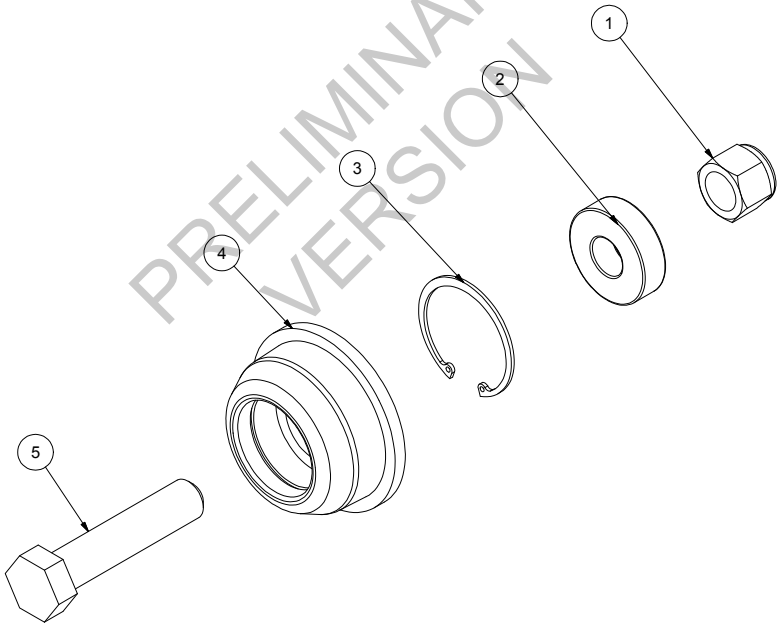
RUBBER ROLLER

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210676	TUBING
2	2	306018	RUBBER ROLLER CAP

STRETCHER

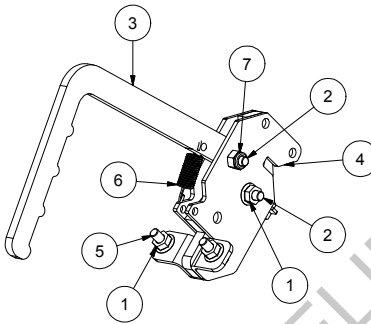
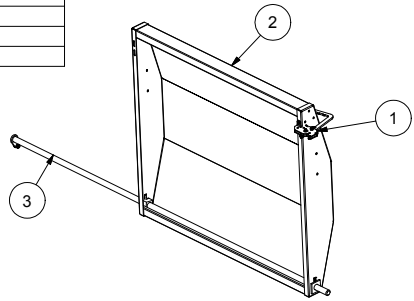
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	279102	SMALL GEAR
2	1	279100	LARGE GEAR
3	2	210591	SPACER TUBE
4	1	210586	RETAINING PLATE
5	1	210587	STRETCHER REAR PLATE
6	1	210588	STRETCHER FRONT PLATE
7	1	210720	RETAINING ROD
8	4	279006	BEARING CUP
9	1	210589	COVER
10	1	501030	NYLON NUT
11	2	210590	WASHER
12	4	501022	FLANGE NUT
14	3	501020	FLANGE NUT
15	1	304005	SPRING
16	4	500004	BOLT
17	4	501000	NUT
18	1	500008	BOLT
19	2	500017	BOLT
20	4	303018	BEARING
21	2	224069	ROLL

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	501036	NYLON NUT
2	1	303012	BEARING
3	1	320027	RETAINING RING
4	1	279007	PLASTIC ROLL HOLDER
5	1	500297	BOLT



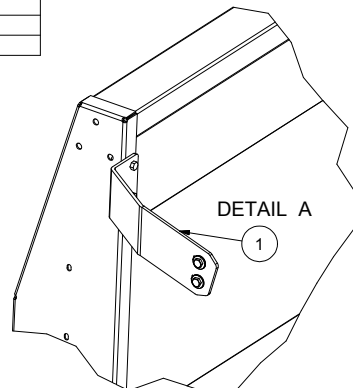
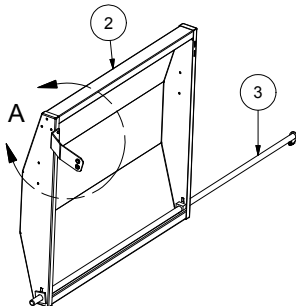
22 - HOOP SHIELD

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210831	LOCK
2	1	210681-1	SHIELD
3	1	210304	SHIELD SUPPORT



PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	3	501020	FLANGE NUT
2	2	500006	BOLT
3	1	210755	
4	1	210809	
5	2	500004	BOLT
6	1	304021	SPRING
7	1	501030	NYLON NUT

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210682-1	FIXED ATTACHMENT
2	1	210681-1	SHIELD
3	1	210304	SHIELD SUPPORT
20	2	502002	FLAT WASHER
21	2	500006	BOLT

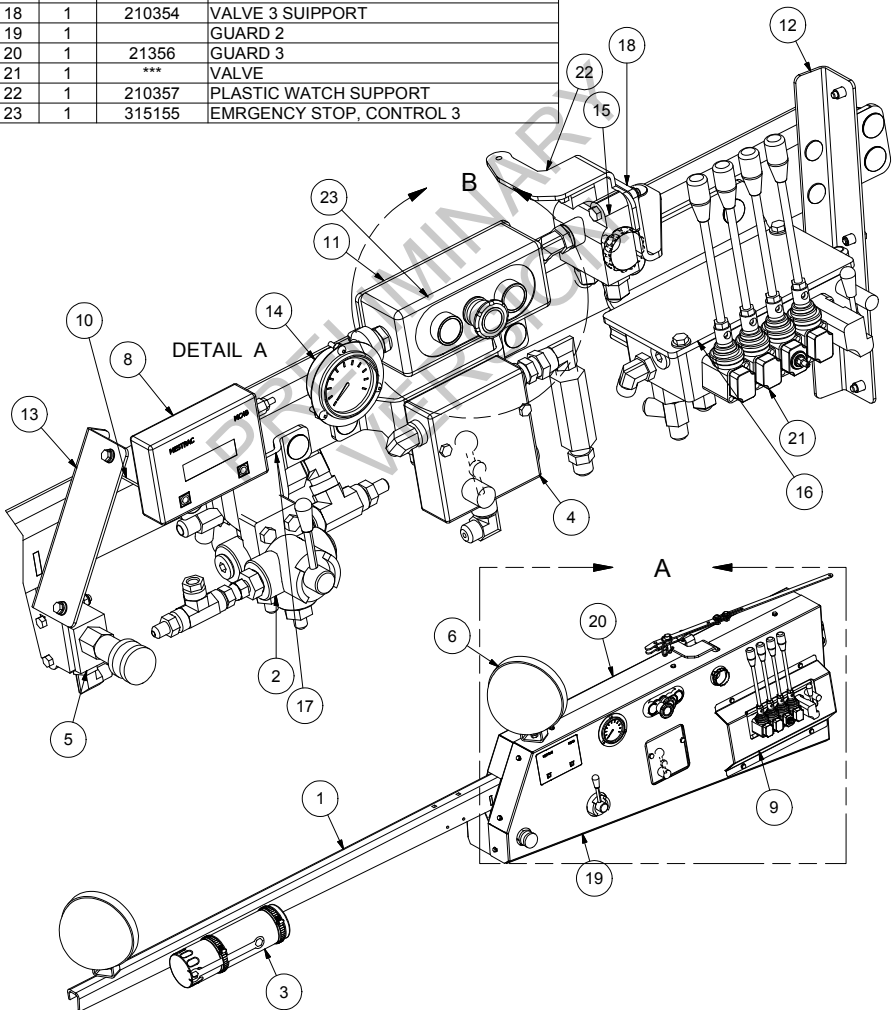
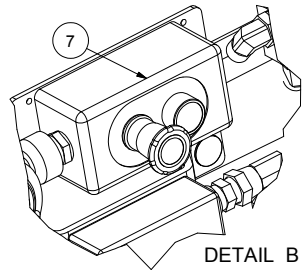




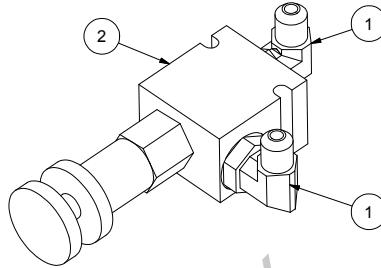
ANDERSON

23 - VALVES SUPPORT

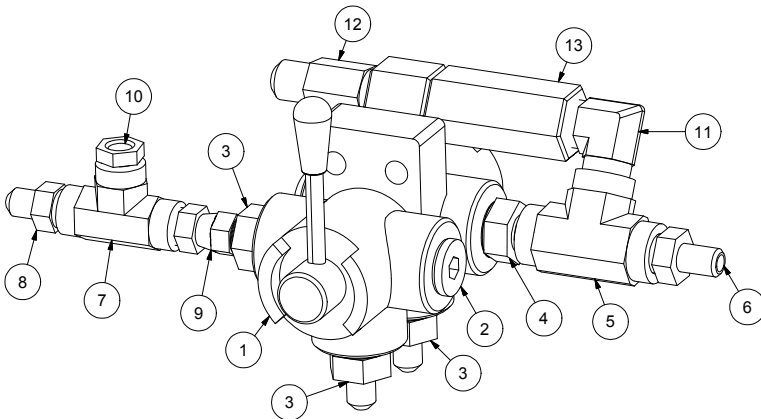
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210286-1	RIGHT HOOP SUPPORT REINFORCEMENT
2	1	***	VALVE
3	1	325120	MANUAL CASE
4	1	***	VALVE
5	1	***	VALVE
6	2	319880	LIGHT
7	1	315159	EMRGENCY STOP, CONTROL 2
8	1	315080	BALE COUNTER
9	1	210347	GUARD 1
10	1	210349	SUPPORT BALE COUNTER
11	1	210348	EMRGENCY STOP SUPPORT
12	1	210350	BOX1 ATTACHMENT
13	1	210351	BOX 2 ATTACHMENT
14	1	470006	PRESSURE GAUGE
15	1	***	VALVE
16	1	210352	VALVE 1 SUIPPORT
17	1	210353	VALVE 2 SUIPPORT
18	1	210354	VALVE 3 SUIPPORT
19	1	***	GUARD 2
20	1	21356	GUARD 3
21	1	***	VALVE
22	1	210357	PLASTIC WATCH SUPPORT
23	1	315155	EMRGENCY STOP, CONTROL 3



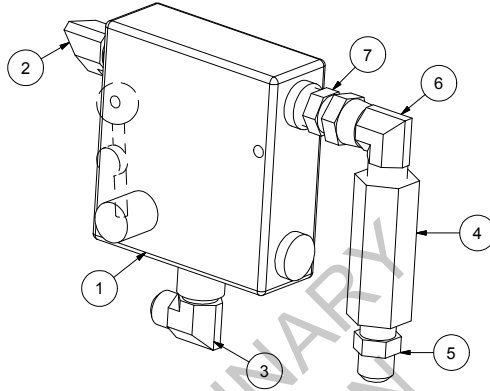
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	2	451261	HYDRAULIC FITTING
2	1	465877	HYDRAULIC VALVE



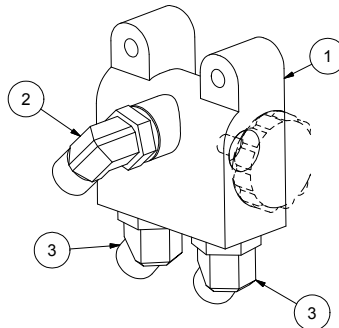
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	465065	HYDRAULIC VALVE
2	2	451356	HYDRAULIC FITTING
3	3	451173	HYDRAULIC FITTING
4	1	451097	HYDRAULIC FITTING
5	1	450243	HYDRAULIC FITTING
6	1	450543	HYDRAULIC FITTING
7	1	450242	HYDRAULIC FITTING
8	1	450542	HYDRAULIC FITTING
9	1	450994	HYDRAULIC FITTING
10	1	450022	HYDRAULIC FITTING
11	1	450196	HYDRAULIC FITTING
12	1	450877	HYDRAULIC FITTING
13	1	465878	CHECK VALVE



PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	465983	HYDRAULIC VALVE
2	1	450712	HYDRAULIC FITTING
3	1	450716	HYDRAULIC FITTING
4	1	465879	CHECK VALVE
5	1	450548	HYDRAULIC FITTING
6	1	450381	HYDRAULIC FITTING
7	1	450008	HYDRAULIC FITTING

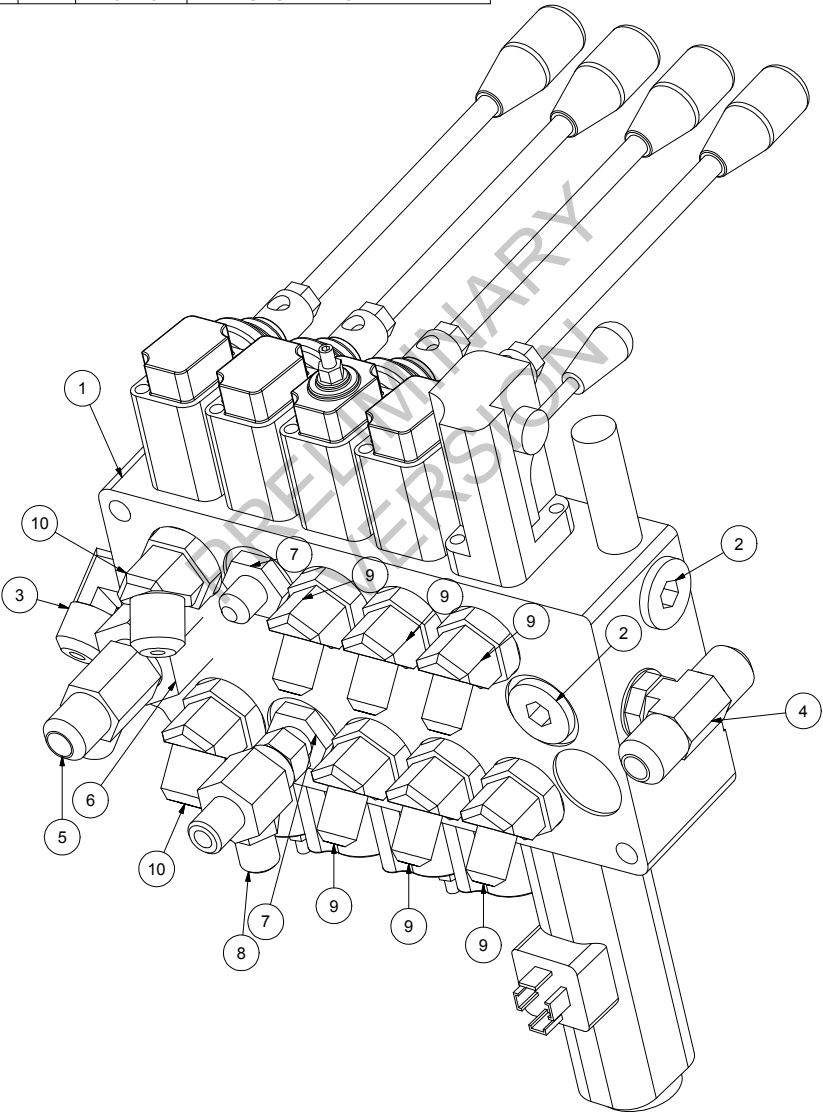


PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	465880	HYDRAULIC VALVE
2	1	451265	HYDRAULIC FITTING
3	2	451229	HYDRAULIC FITTING

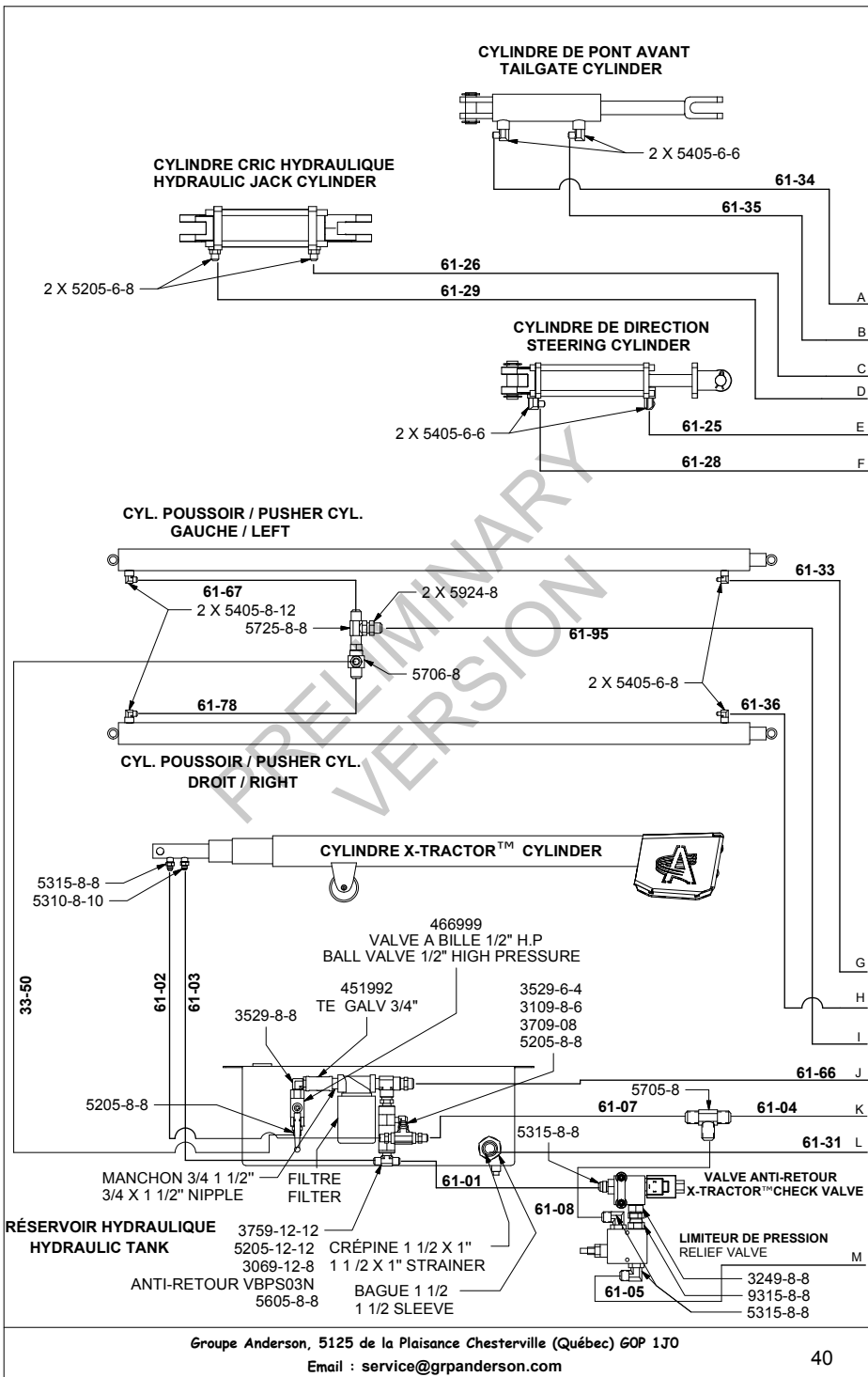


23 -VALVES

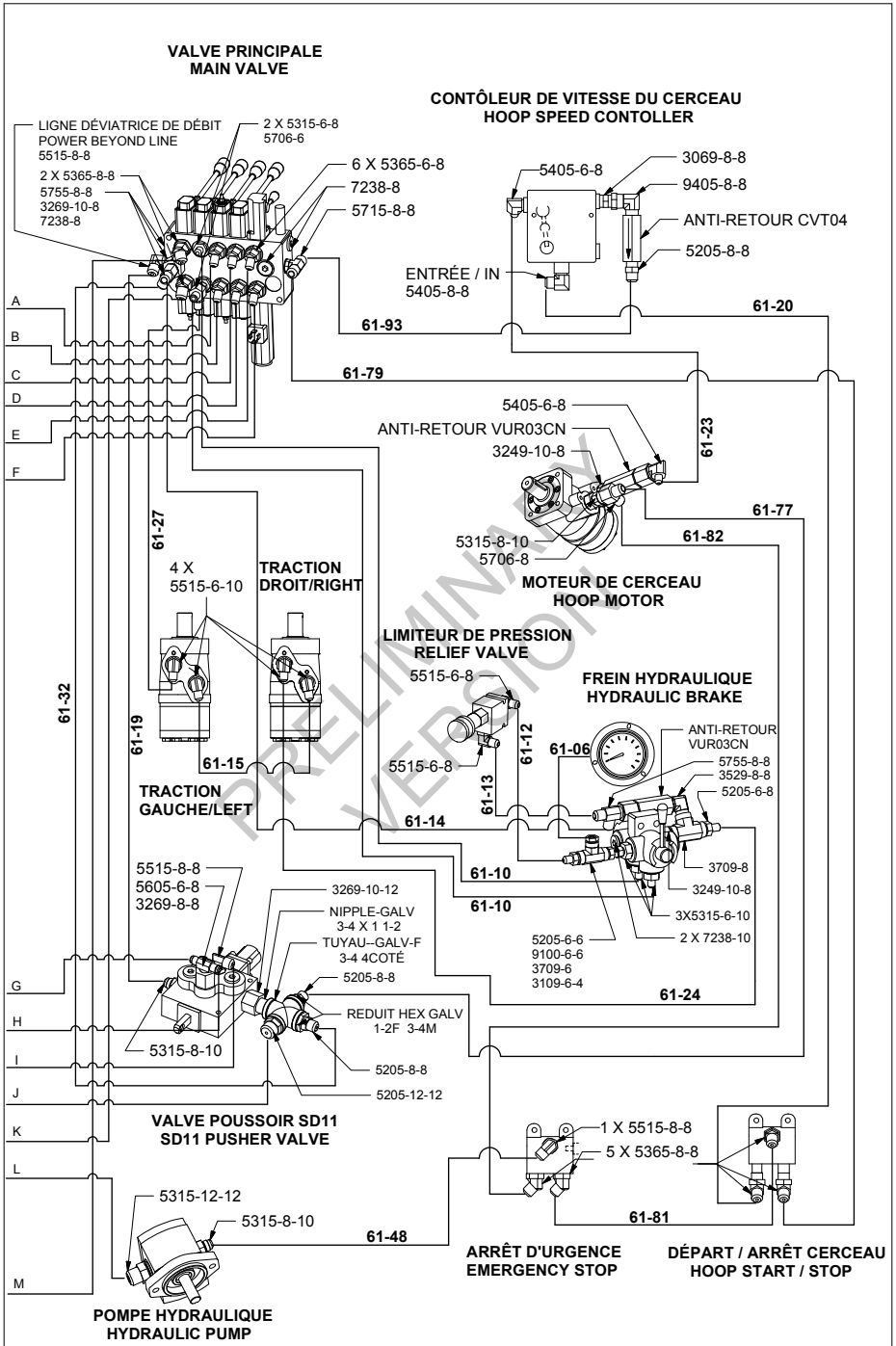
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	465977	ELECTRIC HYDRAULIC VALVE
1	1	465976	MANUAL HYDRAULIC VALVE
2	3	451355	HYDRAULIC FITTING
3	1	451265	HYDRAULIC FITTING
4	1	451313	HYDRAULIC FITTING
5	1	450877	HYDRAULIC FITTING
6	1	451123	HYDRAULIC FITTING
7	2	451172	HYDRAULIC FITTING
8	1	450972	HYDRAULIC FITTING
9	6	451227	HYDRAULIC FITTING
10	2	451229	HYDRAULIC FITTING



24 - DIAGRAMME HYDRAULIQUE - HYDRAULIC DIAGRAM



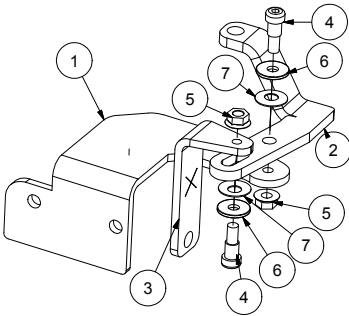
24 - DIAGRAMME HYDRAULIQUE - HYDRAULIC DIAGRAM



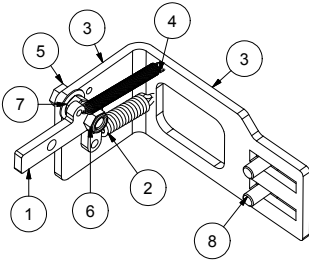
24 - DIAGRAMME HYDRAULIQUE-HYDRAULIC DIAGRAM



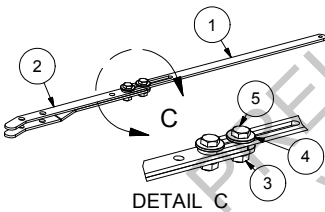
LISTE DE BOYAUX-HOSE LIST					
QTÉ-QTY	PIÈCE-PART	DESCRIPTION	QTÉ-QTY	PIÈCE-PART	DESCRIPTION
1	210855	61-14	1	210856	61-19
1	210857	61-20	1	210858	61-48
1	210859	61-69	1	210860	61-78
1	210861	61-79	1	210862	61-81
1	210863	61-82	1	210864	61-32
1	210865	61-77	1	210866	61-95
1	210867	61-93	2	210868	61-10
1	210869	61-12	1	210870	61-13
1	210871	61-23	1	210872	61-25
1	210873	61-26	1	210874	61-27
1	210875	61-28	1	210876	61-29
1	210877	61-33	1	210878	61-36
1	210879	61-15	1	210880	61-24
1	210881	61-34	1	210882	61-35
1	210883	61-31	1	210884	61-66
1	210885	61-1	1	210886	61-2
1	210887	61-3	1	210888-1	61-4
1	210889-1	61-5	1	210890	61-6
1	210899	61-50	1	210901	61-7
1	210902	61-8			



PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210807-1	PIVOT
2	1	210306-1	SUPPORT OF PIVOT
3	1	210305	ACTIVATION HOOK
4	2	500572	SHOULDER SCREW
5	2	501020	FLANGE NUT
6	2	502002	FLAT WASHER
7	2	502035	SPRING WASHER

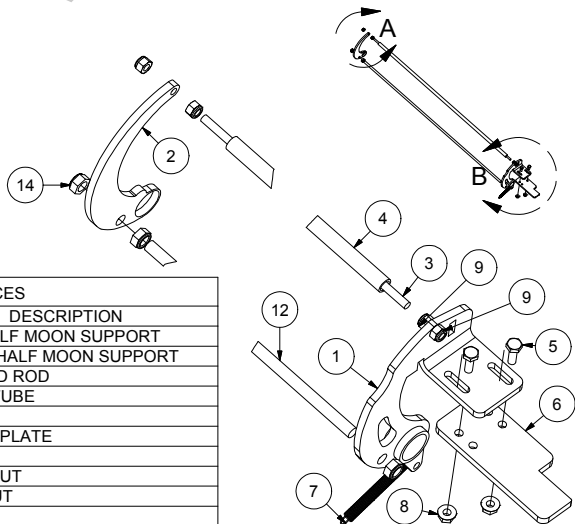


PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210199	TRIGGER
2	1	304005	SPRING
3	1	210795	TRIGGER SUPPORT
4	1	304022	SPRING
5	1	500086	BOLT
6	1	501032	NYLON NUT
7	1	501022	FLANGE NUT
8	2	500602	FLANGE BOLT



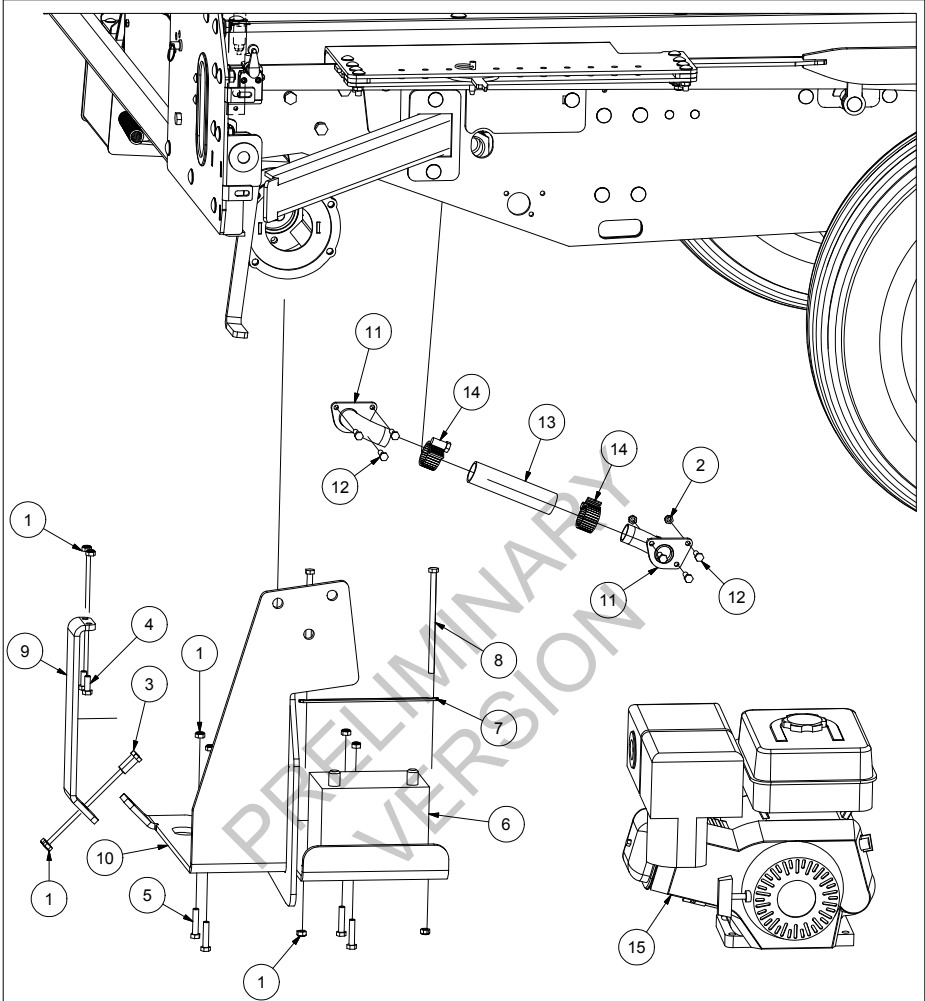
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210358	TRANSFER ROD 1
2	1	210359	TRANSFER ROD 2
3	2	501020	FLANGE NUT
4	2	502002	FLAT WASHER
5	2	500004	BOLT

DETAIL C



LISTE DE PIÈCES			
ITEM	QTY	PART	DESCRIPTION
1	1	210806	INSIDE HALF MOON SUPPORT
2	1	210794	OUTSIDE HALF MOON SUPPORT
3	1	210795	THREADED ROD
4	1	210805	PLASTIC TUBE
5	2	500004	BOLT
6	1	210797	TRIPPING PLATE
7	1	304022	SPRING
8	2	501020	FLANGE NUT
9	4	501030	NYLON NUT
12	1	306034	
14	4	501032	NYLON NUT

26 - DIESEL ENGINE SUPPORT (OPTION)



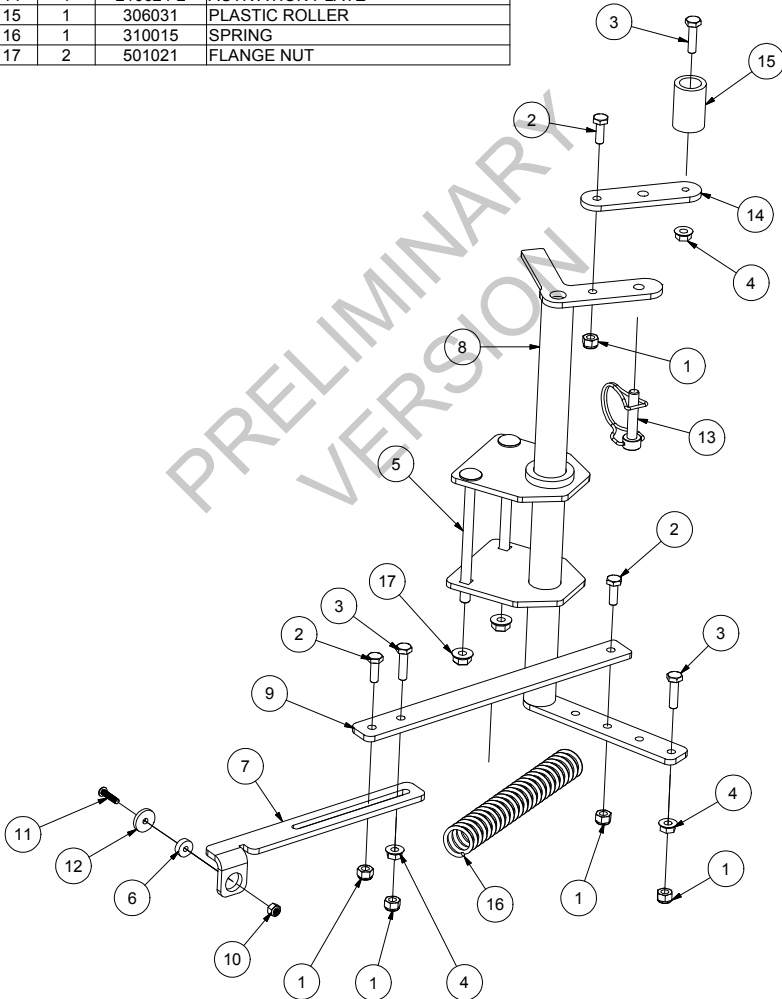
PARTS LIST

ITEM	QTY	PART	DESCRIPTION
1	8	501032	NYLON NUT
2	3	501031	NYLON NUT
3	2	500086	BOLT
4	2	500084	BOLT
5	4	500090	BOLT
6	1	470113	BATTERY
7	1	210650	BATTERY ATTACHEMENT
8	2	500114	BOLT
9	1	210329	SUPPORT REINFORCEMENT
10	1	210330	ENGINE SUPPORT
11	2	210331	ELBOW
12	6	500046	BOLT
13	1	210331-1	PIPE
14	2	325122	COLLAR
15	1	T1-DIES	ENGINE



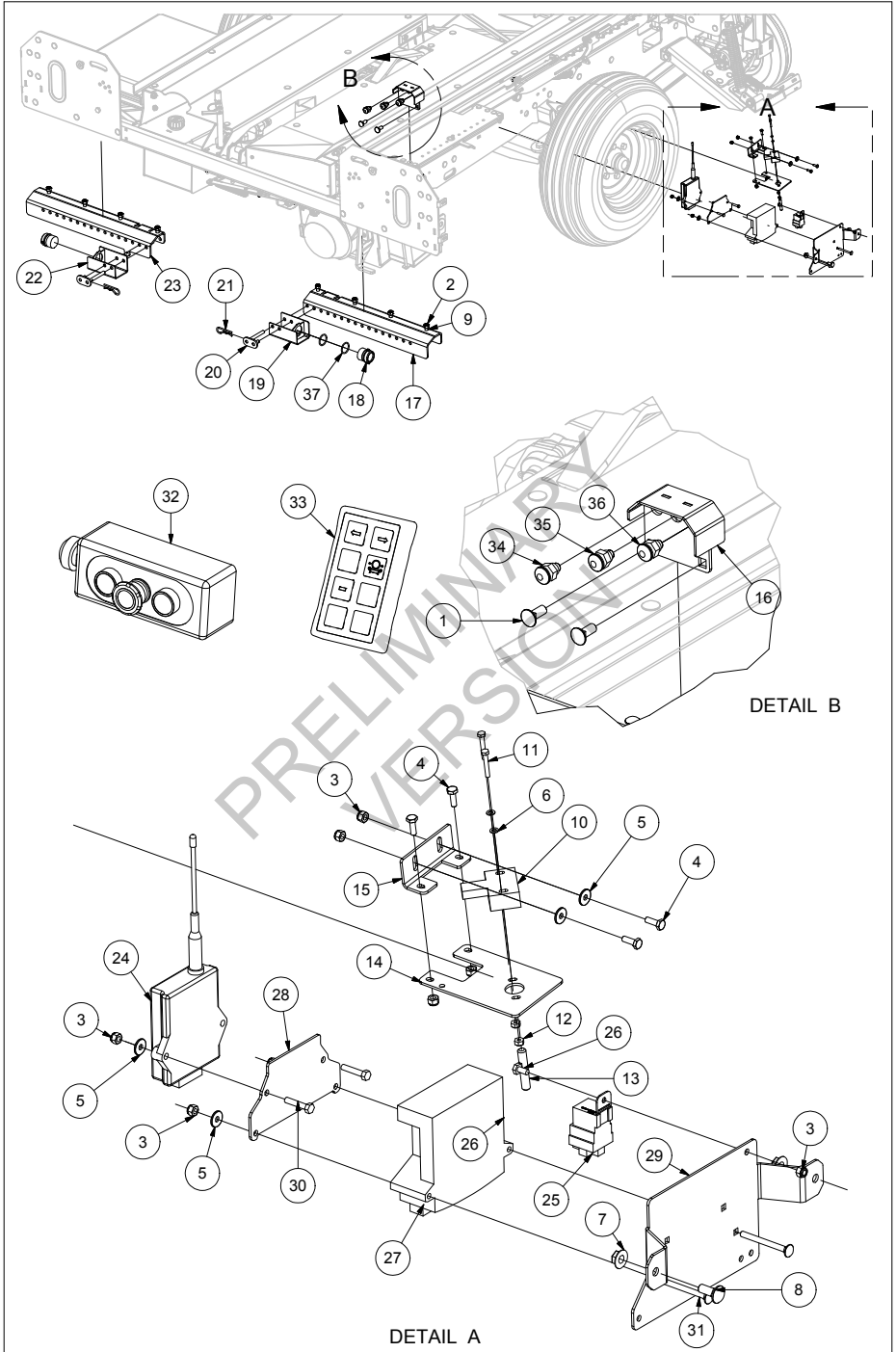
26 - TROTTLE CONTROL DIESEL ENGINE (OPTION)

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	5	501030	NYLON NUT
2	3	500004	BOLT
3	3	500006	BOLT
4	3	501020	FLANGE NUT
5	2	500412	CARRIAGE BOLT
6	1	210328	BUSHING
7	1	210326	AJUSTABLE PLATE
8	1	210332	TROTTLE
9	1	210325	AJUSTABLE PLATE 2
10	1	501050-1	NUT
11	1	507087	SCREW
12	1	210327	WASHER
13	1	320031	LOCK PINCARRIAGE BOLT
14	1	210624-2	ACTIVATION PLATE
15	1	306031	PLASTIC ROLLER
16	1	310015	SPRING
17	2	501021	FLANGE NUT





27 - AUTOMATED DRIVING (OPTION)



27 - AUTOMATED DRIVING (OPTION)

PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
2	8	501034	NYLON NUT
3	4	501030	NYLON NUT
4	4	500004	BOLT
5	2	502002	FLAT WASHER
6	2	502015	WASHER
6	19	501032	NYLON NUT
7	2	501022	FLANGE NUT
8	2	500442	CARRIAGE BOLT
9	8	500175	BOLT
10	1	315103	SENSOR
11	2	500348	BOLT
12	2	501049	NYLON NUT
13	1	223399	ACTIVATOR FOR SENSOR
14	1	210333	SENSOR SUPPORT
15	1	210340	FRAME SENSOR SUPPORT
16	1	210339	LIGHT GUARD
17	1	310334	RIGHT GUARD
18	2	315101	SENSOR
19	1	210337	RIGHT SENSOR BOX
20	2	210336	PIN
21	2	320010	HITCH PIN
22	1	210338	LEFT SENSOR BOX
23	1	210335	LEFT GUARD
24	1	315133	REMOTE
25	1	900603	RELEY
26	1	500001	BOLT
27	1	315081	COMPUTER
28	1	210360	REMOTE CONTROL SUPPORT
29	1	210361	CONTROL SUPPORT
30	2	500008	BOLT
31	2	500368	CARRIAGE BOLT
32	1	315155	3 FONCTION REMOTE
33	1	315132	REMOTE CONTROL
34	3	900565	GREEN LIGHT KIT
35	3	900566	RED LIGHT KIT
36	1	900564	YELLOW LIGHT KIT
37	2		ORING

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	
1	4	500084	BOLT	
2	8	501022	FLANGE NUT	
3	2	500360	CARRIAGE BOLT	
4	4	500082	BOLT	
5	1		GAS TANK	
6	1	210364	GAS TANK LEFT SUPPORT	
7	1	210363	GAS TANK RIGHT SUPPORT	
8	1	470027	GAS VALVE	
9	1	210362	VALVE SUPPORT	
10	1	470026	GAZ FILTER	

