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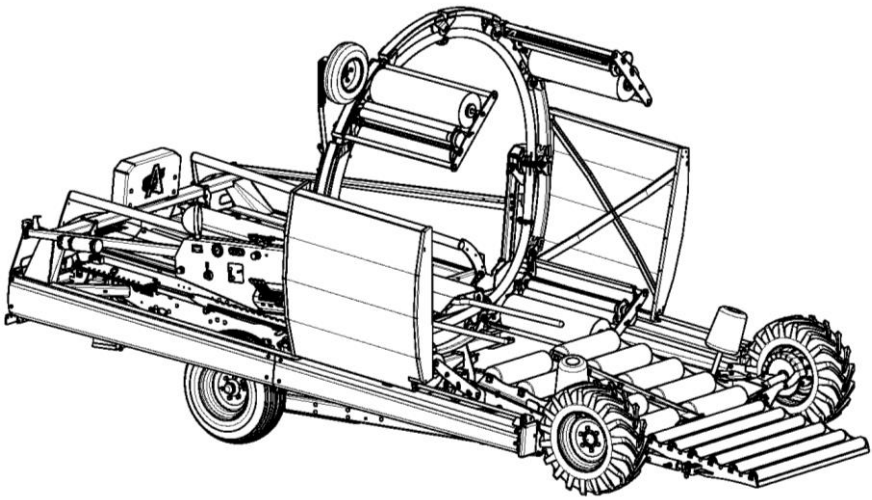
ANDERSON

Round and square bale wrapper Hybrid X



CE

Operator's Manual 2021

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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 that you:

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

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

ANDERSON

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 :

- 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 Hybrid X 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 Hybrid X Wrapper.

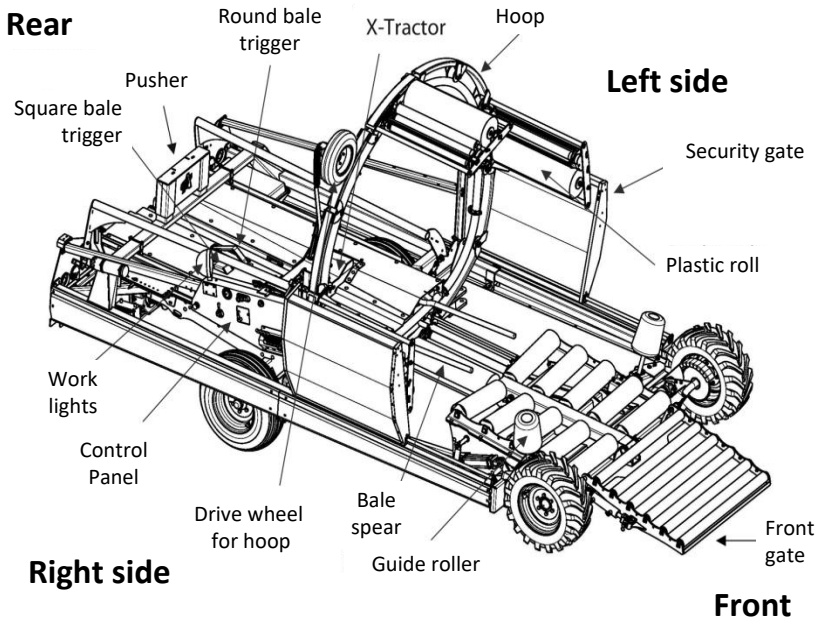


Figure 1 – Main components of an Anderson Hybrid X Wrapper

The following table shows and describes the stickers of the wrapper, excluding the ones you will find on the control panel. Those stickers can be found in Table 2.

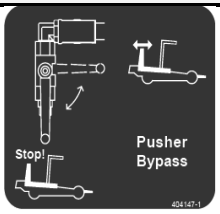
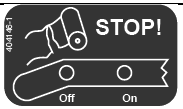
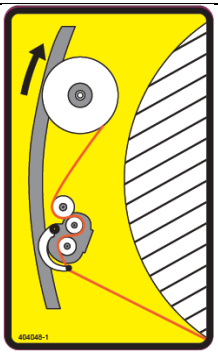
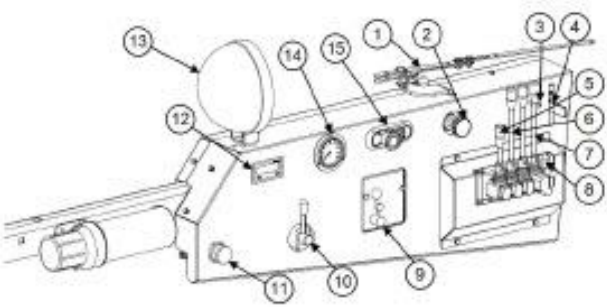
Sticker	Description
	Pusher Bypass
	Deactivate the plastic watch
	How to install the plastic film
	Right side bale guide
	Left side bale guide
	Lubrication point (Oil)
	Grease point (With grease gun)

Table 1 – Stickers on the wrapper

1.2 Control Panel

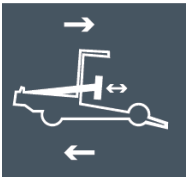
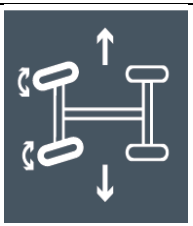
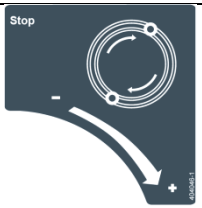
The below image shows the control panel of the wrapper.



1	Plastic watch
2	Hydraulic stop
3	Light switch
4	Engine Speed Control
5	X-Tractor lever
6	Front traction lever
7	Pivoting axle lever
8	Direction lever
9	Hoop speed control
10	Selector valve: wrapping or moving
11	Hydraulic brake valve
12	Bale counter
13	Work light
14	Hydraulic brake valve pressure gauge
15	Emergency stop

Figure 2 – Control panel

The following table shows the images seen on the control panel.

Sticker	Description
	Control of X-Tractor system
	Control of front traction tires
	Control of front axle and the front tailgate (if the ball valve is open)
	Steering control
	Hoop speed control

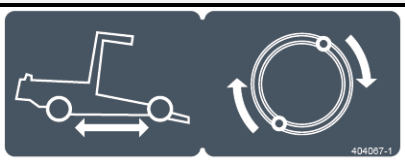
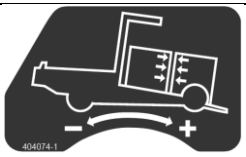
Sticker	Description
	Selection of Wrapping or Moving wrapper mode.
	Working light control switch.
	Activation of the remote control, Emergency Stop and Start engine.
	Hydraulic brake for bale compression.

Table 2 – Control panel stickers

1.3 Techincal Specifications

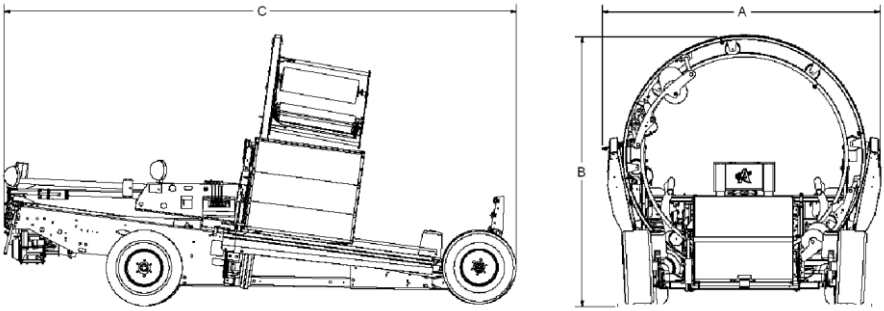


Figure 3 – Dimensions

Selection	Dimension
Width (A)	3m (118in)
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)	5,74m (226in)
Total Weight	2 475kg (5445lbs)
Pulling weight	410kg (902lbs)

Table 3 – Weight and dimensions

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)
Plastic 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) Exterior height: 2.43m (95.5in) Interior diameter : 2,05m (80,5in) Interior height: 2.01m (79in) Rotation speed : 28 RPM (max)
Hydraulic system	Type : Open Pressure : 2100 psi (max) Flow : 11.2 GPM (42 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 4 – General specifications

1.4 Tips 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 posses their best nutritional values! So, forage plants must be cut when the 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 fibres. 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 you bales are firm and even. They will then 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.

Basic Security measures

Danger!

Never walk on the front tail gate or let anyone else walk on this part of the equipment. Walking on the machine or on the tail gate may cause injuries or even death. This is one of the main causes of accidents related to the use of the wrapper.

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 for 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 left-hand side of the engine. This is particularly important before a long period of storage.

Figure 4 – Closing the fuel valve

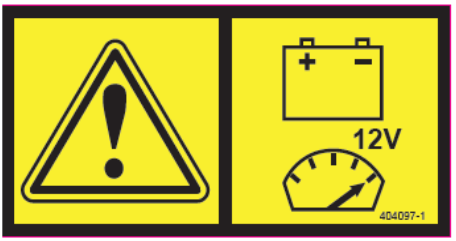
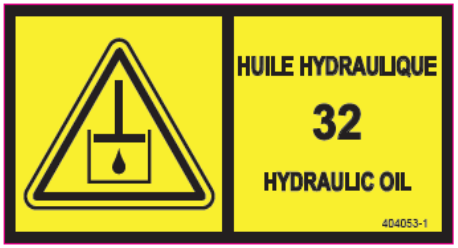
Moving the bale Wrapper

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.

2.1 Safety stickers

The following table shows labels on the wrapper and explains their significance.

Sticker	Meaning
	Never stand on the wrapper or let anyone using the wrapper stand on it.
	Emergency hydraulic shut-off.

Sticker	Meaning
	Caution, before doing any maintenance or repairs on the machine, stop the engine, remove the key from the ignition and consult the operator's manual section «Maintenance».
	Important, make sure that the battery has at least a 12 Volt charge before using the wrapper.
	Attention, carefully read and understand the contents of this operator's manual before operating the wrapper.
	Important, Use only grade 32 hydraulic oil or better.

Sticker	Meaning
	Danger of being caught in the drive chains Do not put your hands or any other body part close to a moving part of the wrapper.
	Danger of being caught or crushed by the machine when in operation. Keep a minimum distance of 5 meters from the wrapper when it is in operation.

Sticker	Meaning
	Danger to trip or fall. Never climb on or let anyone else climb on the tailgate of the wrapper.
	Danger of being caught or even crushed by the stretchers (Moving parts). Stay at a safe distance from the stretchers.

Table 5 – Safety stickers of the wrapper

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's 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).

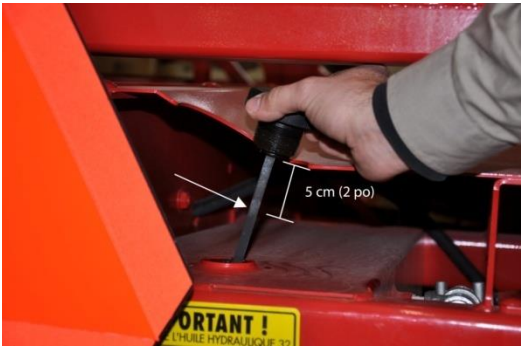


Figure 5 – Oil in Hydraulic oil tank

Figure 6 – Engine oil cap location

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 (ex. 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 in, or if the engine key is in the **OFF** position.
2. Push the start button (Green) on the control panel (Figure 2) or turn the Honda engine 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 to without damaging the bales in the row beside.

Security when moving your wrapper

Danger!

Whatever you choose 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 are moveing it.

Warning!

Before any movement, be sure that the front gate is locked in transport position (Section Locking of the front gate). When moving the wrapper long distances, be sure that the axle that the front drive pivots on, is lifted so that the front of the wrapper is not in danger of touching the ground.

Locking of the front gate

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

1. Ensure that the ball valve on the front tailgate is open.
2. Raise the tailgate (Figure 7) all of the way with the joystick (Figure 2).
3. Raise the arm to lock the tail gate and insert the arm to keep the gate in the upright position (Figure 7).
4. Insert the pin to lock the arm in place (Figure 7).

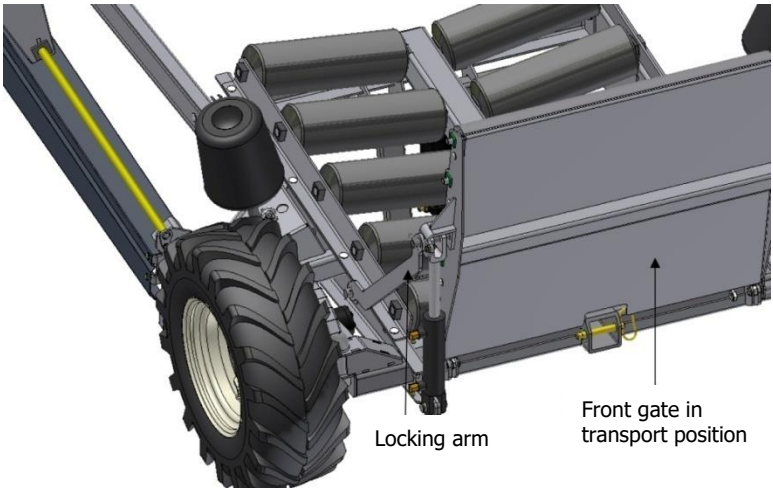


Figure 7 – Raising the front gate and locking into transport position

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.

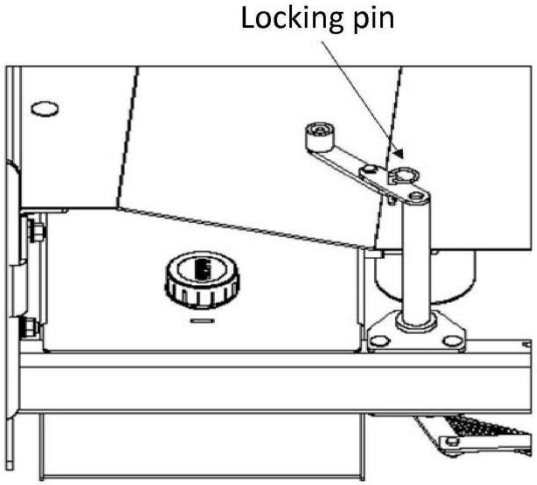


Figure 8 – Engine idol control lever

5. With the lever to control the height of the front axle, raise the wrapper from the ground. You should raise the front of the wrapper on all rough ground.
6. Place the control lever of the selection valve in the position **move** (Figure 2).
7. With the main valve levers, Move the wrapper with the **front traction** (To move forward or reverse) also (to turn the wheels) (Figure 2).
8. 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 our 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. Close the ball valve on the front tailgate to prevent it from moving when the axle control is operated.
2. Lift the wrapper by activating the front axle pivot (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. You should raise the front wheels completely when attaching it to a vehicle or tractor.**

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

Warning!	**We strongly recommend the use of 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.**

4. 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 its slot to hold the tongue in its storage area.

Figure 11 – Tongue Storage

Parking the wrapper on a slope

Use blocks or wheel stops when you are parking the wrapper on a slope. This will remove the risk of the wrapper moving involuntarily.

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)

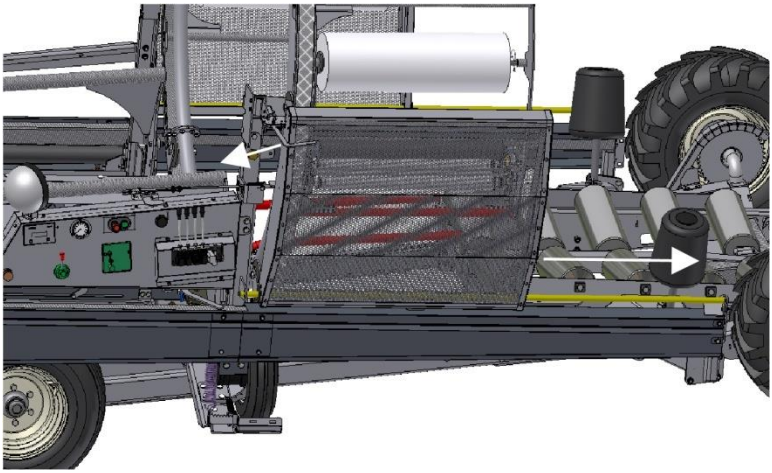


Figure 12 – Unlocking the safety gate

3. If one of the rolls is not at a good height to change, release the hoop brake (Figure 13) by turning the valve vertically, and turn the hoop manually until the plastic roll is in the correct position. Then turn the valve to the horizontal position to insure that the hoop does not move while you change your plastic.

Figure 13 – Hoop brake valve

Installing the first roll of plastic film

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

1. Turn the hoop brake valve to 90° to activate the brake (Figure 13) and be sure that the hoop does not turn during the installation of the plastic roll.

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)

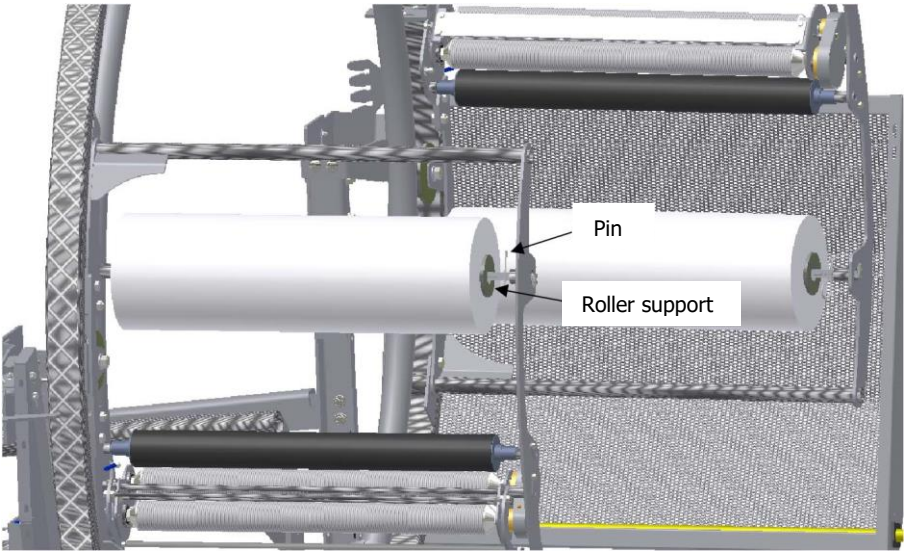


Figure 14 – Supports for film rolls

NOTE :	The rollers of the stretcher should always be clean and should turn freely. By taking care of the rollers you can avoid jams or tearing of the plastic film. If you need to, check section 6.4 to find out how to clean the stretcher rollers.

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

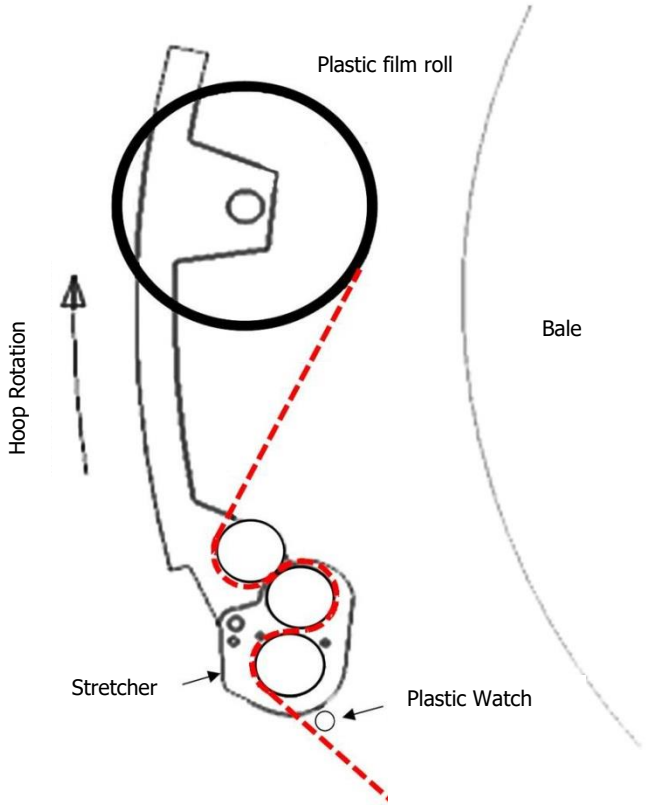


Figure 15 – Film installation

4. Replace the film support and insert the pin to lock it.
5. Insert the film between the rollers of the stretcher (see Figure 15). 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)

7. Pull on the plastic film until you have enough to tie a knot at the end and attach it to the bale guide as shown in the below image. To finish this step you will place a bale ready to wrap on the machine. (see section 4.4)

Figure 16 – Attaching the plastic film

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

Installing the other rolls of Plastic Film

To install the other film rolls, proceed as follows:

1. Turn the hoop so you have access to the send film supports.
   - Release the brake valve for 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:

- Type of bale (round or square)
- 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 front axle.

4.3 Compressing 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 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.

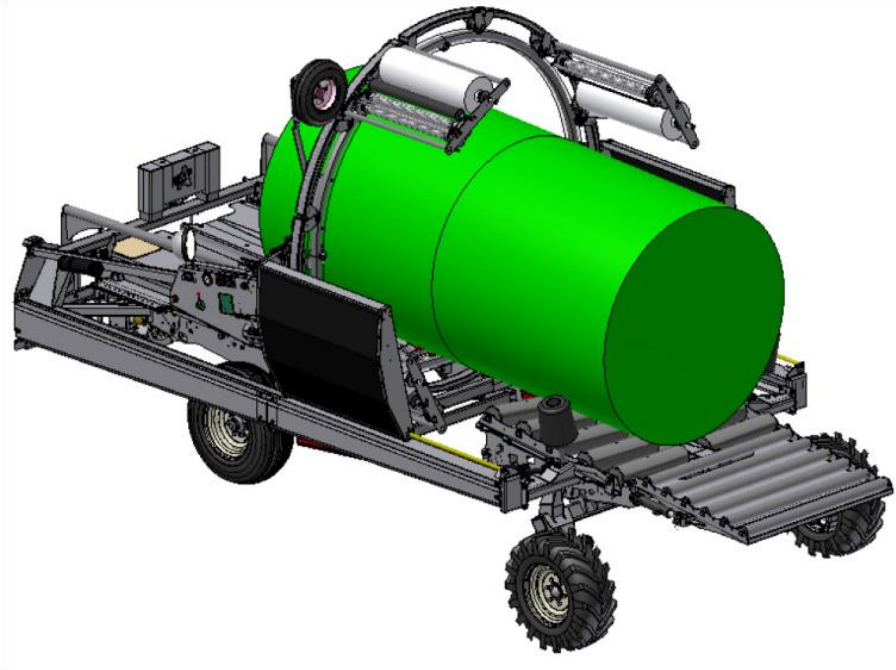


Figure 17 – Compression bales

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 front axle. 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.

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

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

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

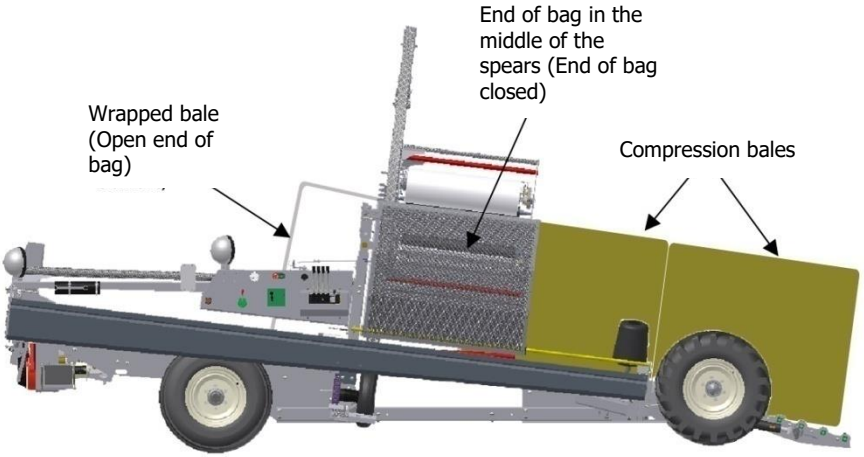


Figure 18 – Wrapping of first bale

8. 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 6), 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 hope 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.

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)

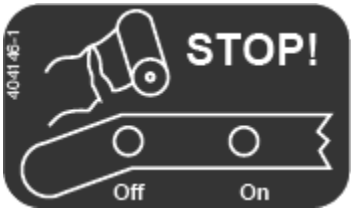


Figure 19 – Deactivation of the plastic watch

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.

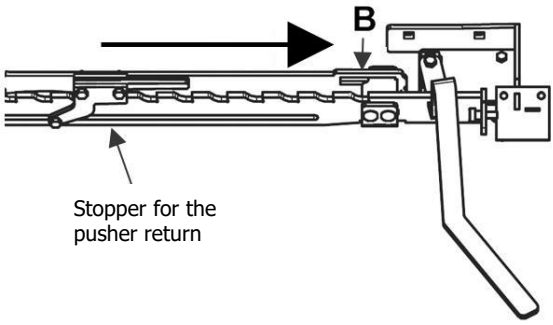


Figure 20 – Adjusting the stopper for the pusher

2. 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.

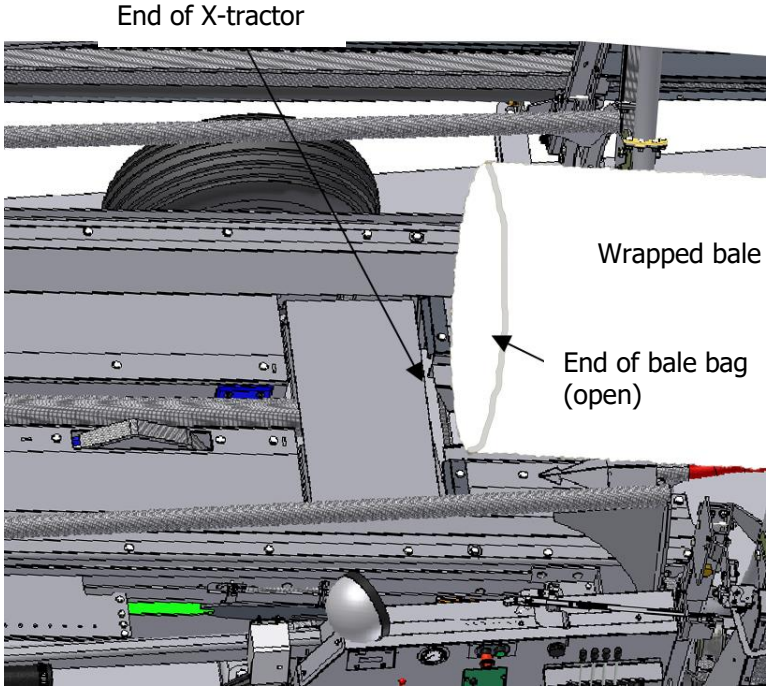


Figure 21 – Last bale position

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 0) 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.

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.

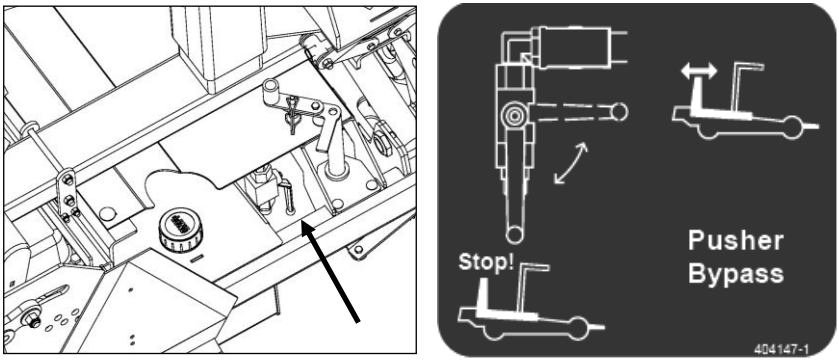


Figure 22 – Pusher bypass

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.

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

5.1 Bale type (round or square)

The front table rollers must be placed at different heights for the discharge of different types of bales.

If the bales are round, turn the handle clockwise until the table drops inward creating a ‘V”.

If the bales are square turn the handle counter-clockwise until the table is level.

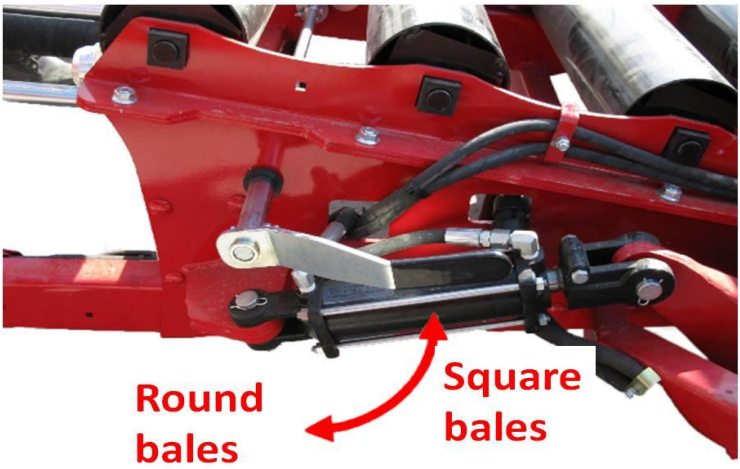


Figure 23 – Adjusting the front table rollers

5.2 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.

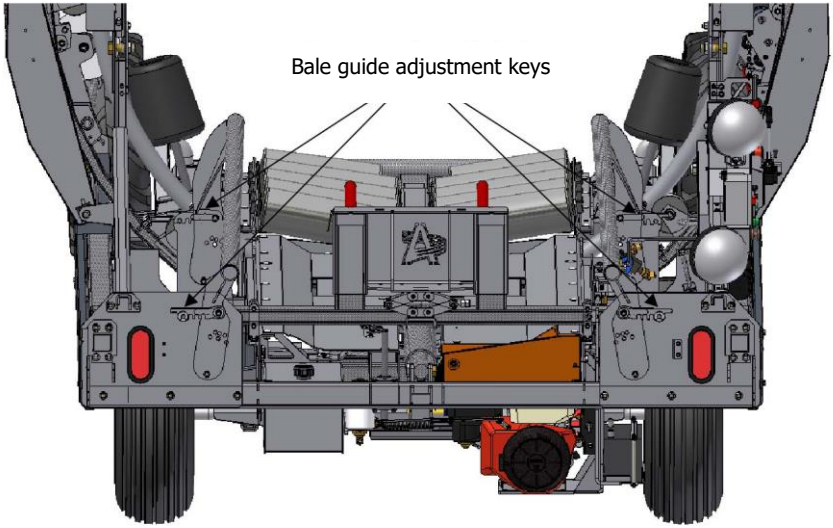


Figure 24 – Adjusting the bale guides

2. Place the bale guides in the appropriate position for the diameter or length of bales you are wrapping. Use the outer position for your large bales, the center position for medium size bales and the inside position for small bales.

Warning! **Place both bale guides in the same position.**

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

5.3 Guide rollers

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.

Warning!

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.

To adjust the guide rollers, proceed as follows:

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

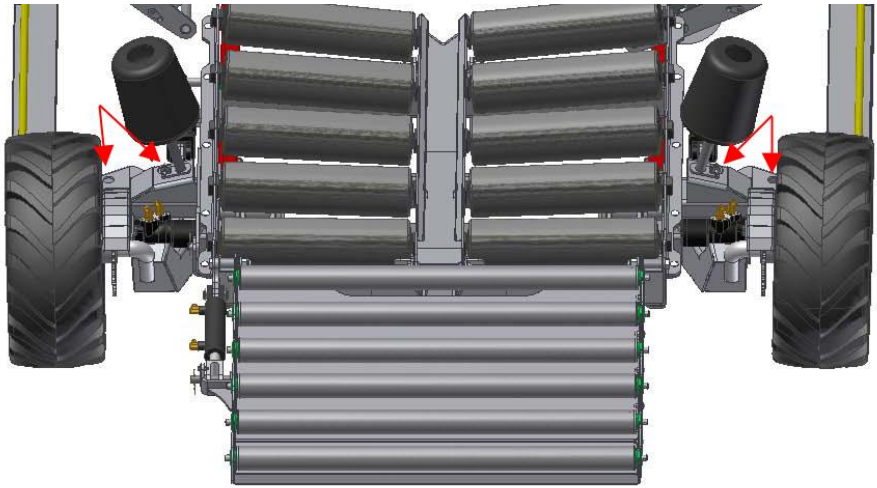


Figure 25 – Adjusting the guide rollers

2. Place the roller in the desired position on the outside for the square bales and on the inside for round bales.
3. Put the locking pin back in place.
4. If needed follow the same procedure to change the other guide roller.

5.4 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 26). 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.

Size of round bales	**Adjustment**
1,2m (4ft)	Position A
1,52m (5ft)	Position B
Size of square bales	**Adjustment**
0,9m x 0,8m (3ft x 3ft)	Position C
0,9m x 1,2m (3ft x 4ft)	Position A

Table 6 – Suggested adjustments (Position of the Pusher return stopper)

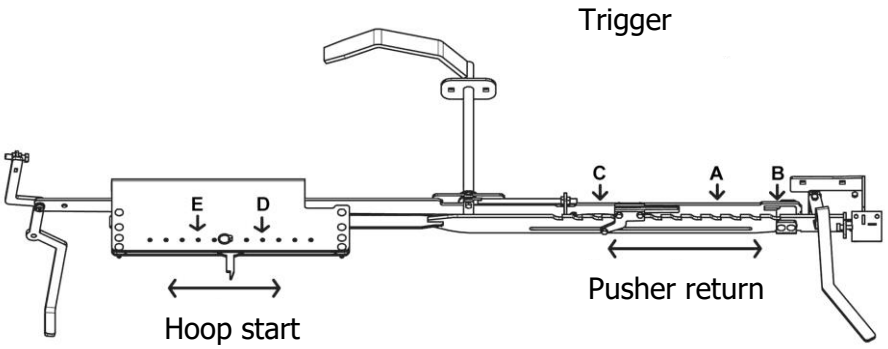


Figure 26 –Automatic system adjustments (Hoop start and Pusher return)

5.5 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 7 – Suggested settings (Position of the pointer to start the hoop) and Figure 26)

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 E
Size of square bales	**Adjustment**
0,9m x 0,8m (3ft x 3ft)	Position D
0,9m x 1,2m (3ft x 4ft)	Position D

Table 7 – Suggested settings (Position of the pointer to start the hoop)

5.6 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:

1. Unscrew two of the bolts that hold the pusher plate in place (see the following figure).
2. Insert these bolts into the holes on the side of the stationary part of the pusher so they support the plate.
3. Unscrew the two other bolts.
4. Raise the plate and place the two bolts you just removed from the side of the stationary part of the pusher to hold the plate in its new position.
5. Put the bolts back in their new positions, two by two, and tighten them all.

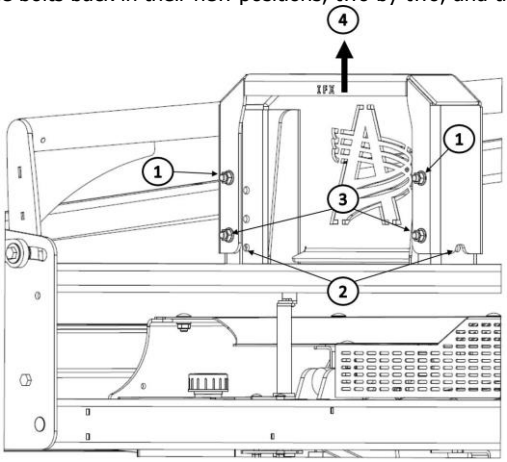


Figure 27 – Adjusting the height of the pusher

5.7 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.

ANDERSON

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.

5.8 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.

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 Maintenance and advanced adjustments 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 8 – Recommended maintenance schedule and advanced adjustments

6.2 Lubrication

You must lubricate your wrapper with oil in the following places:

Figure 28 – Lubrication points

Figure 29 – Drive chain

Figure 30 – Engine idle control

Figure 31 – Manual hoop start

Figure 32 – Automatic system

Figure 33 – Pusher guide rails

Warning!	**Do not grease 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

After every 200 bales you should grease your wrapper with a grease gun in the following places:

NOTE :	We recommend that you use synthetic grease.

Figure 34 – Grease points

Figure 35 – Both front axels

Figure 36 – Both rear axels

Figure 37 – The gears of the stretcher system

Figure 38 – Twelve sections of the hoop

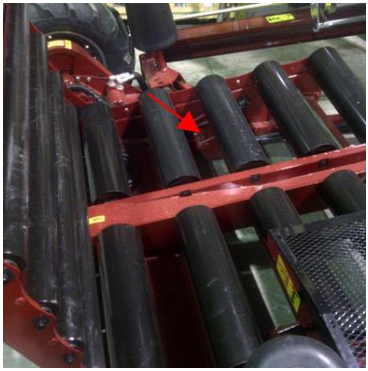


Figure 39 – Both pivots of the front axle

6.4 Cleaning

Front traction sprocket

Remove any debris or hay that may be stuck between the sprockets or around the axel. 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 antifriction 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 4 to know the specific pressure recommended for each type of tire.

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

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.

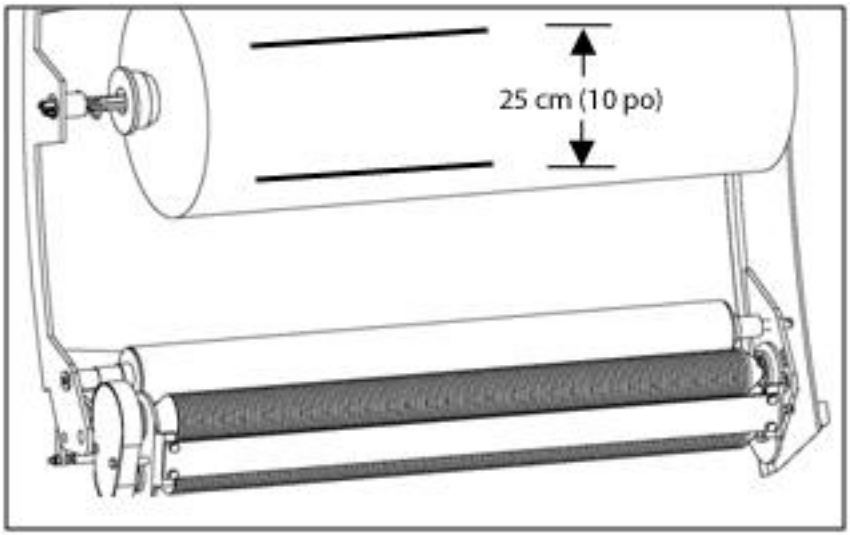


Figure 40 – Stretchers

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.

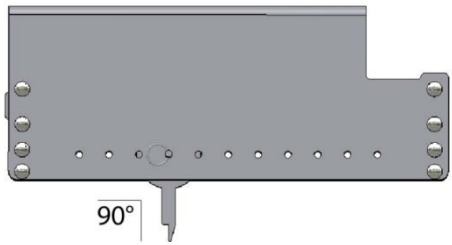
Adjusting the hoop activation lever (pointer)

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.

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 41).

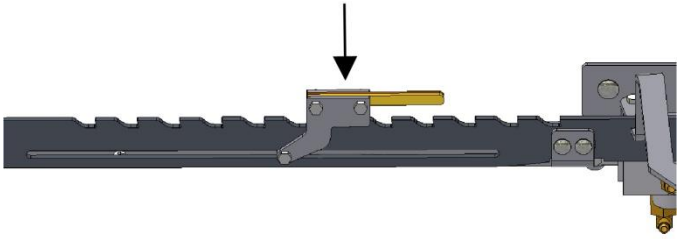


Figure 41 – Adjustment of the hoop activation (return of the pusher)

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 42) :

Manually push the pointer forward on the machine, the angle should be slightly lower than 90° (Figure 42).

•

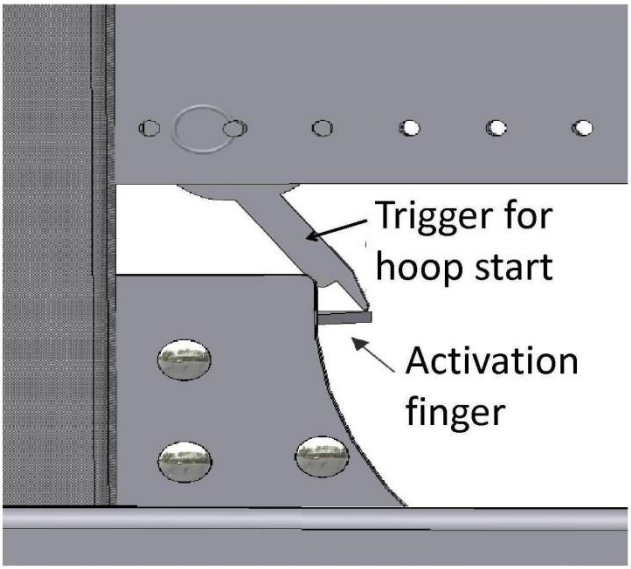


Figure 42 – Adjusting the control of the hoop start (position of the pointer)

- Start the engine.
- Push the manual release for the pusher (Figure 43).

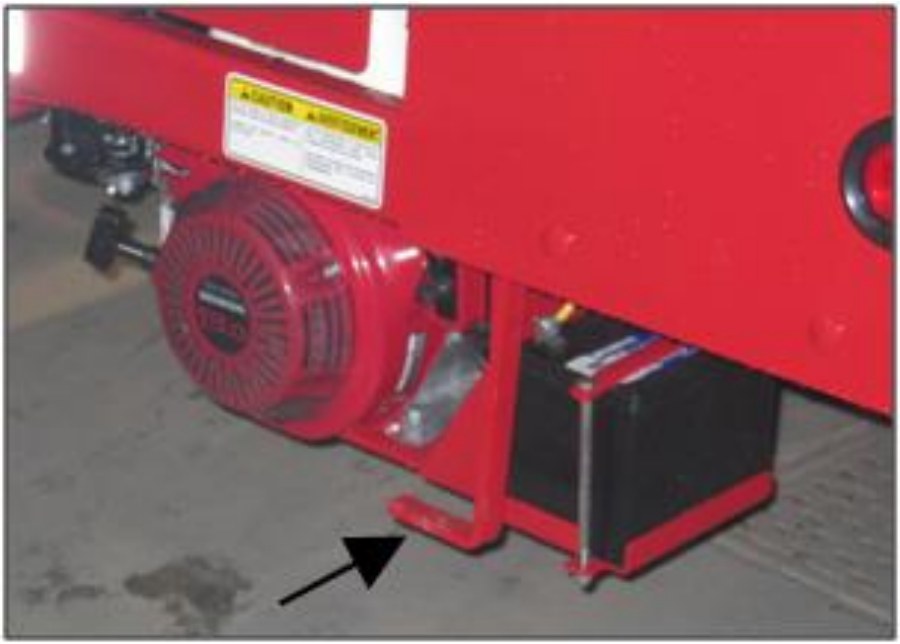


Figure 43 – Adjusting the control for the hoop (manual start of the pusher)

- Move to a position near the wrapper where you can see the pointer that activates the hoop.
- Push on the manual activation pedal of the pusher. 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 42).
- Stop the engine.

4. Loosen the bolts on the finger that hold in place. Adjust the position so that it slightly touches the pointer. (Figure 44).

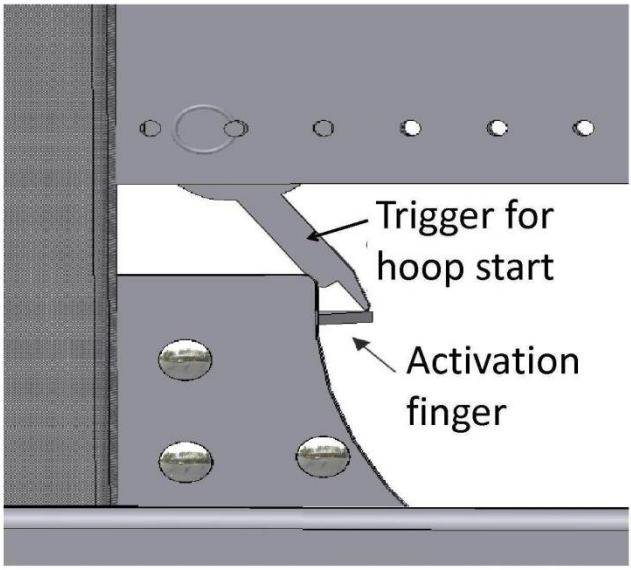


Figure 44 – Adjustment of the hoop trigger

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 triggers

These adjustments are only necessary if the trigger does not engage the pusher when a bale is placed on the wrapper. There are two triggers. One for round and one for square bales.

NOTE :	You should follow these steps when changing from one bale type to another.

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 43).
5. Move to a position where you can see the trigger and the pusher bar at the same time (Figure 45).
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 (For round or square bales) (Figure 45).
7. Stop the engine.

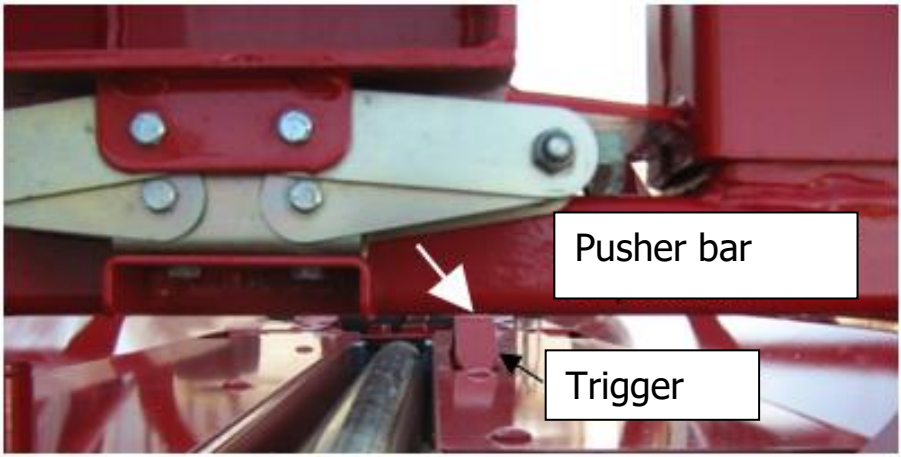


Figure 45 – Adjusting the pusher trigger (example with the trigger set for round bales)

Adjusting the height of the trigger for round bales

To adjust the height of the trigger of the pusher (Figure 45), proceed as follows:

1. Screw or unscrew the nuts (Figure 46), if you want to raise or lower the trigger for the pusher (Figure 45).

NOTE :	This adjustment is found on the right hand side of the wrapper.

2. Be sure that the trigger is about 2.5cm (1in) from the bottom of the pusher bar (Figure 45).

Figure 46 – Adjusting the pusher trigger for round bales (nuts)

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

Adjustning the height of the trigger for square bales

NOTE :	It is important to always adjust the height of the trigger for round bales before making an adjustment for square bales.

To adjust the space between the pusher bar and the trigger for square bales proceed as follows. (Figure 45)

1. Unscrew or screw in the two nuts (Figure 47), wether you are raising or lowering the trigger (Figure 45).

NOTE :	This adjustment can be found under the back part of the wrapper.

1. Be sure that the trigger is about 1.2cm (.5in) from the bottom of the pusher bar (Figure 45).

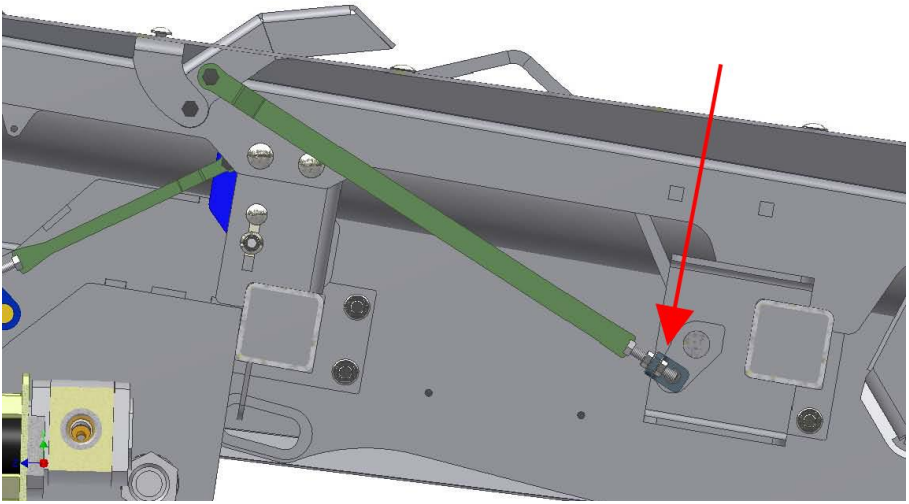


Figure 47 – Adjusting the square bale trigger (nuts)

The trigger for square bales is now adjusted. Restart the engine and pull on the Hydraulic stop button so that the pusher bar comes back to its 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 48. The space should be about 2.5cms (1in).

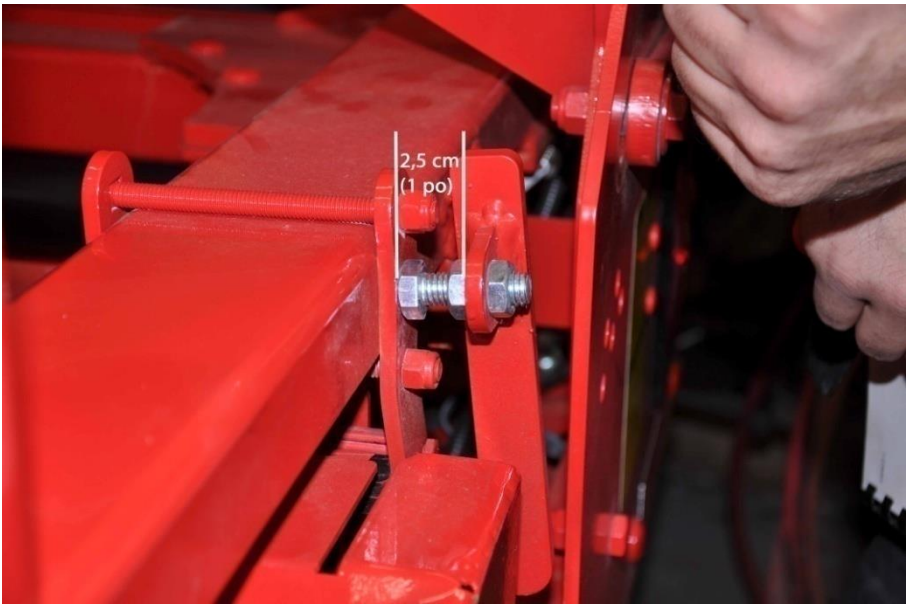


Figure 48 – Adjusting the limit stop for the pusher bar

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.

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 49). **Do not start the engine**.

Figure 49 – 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 50).

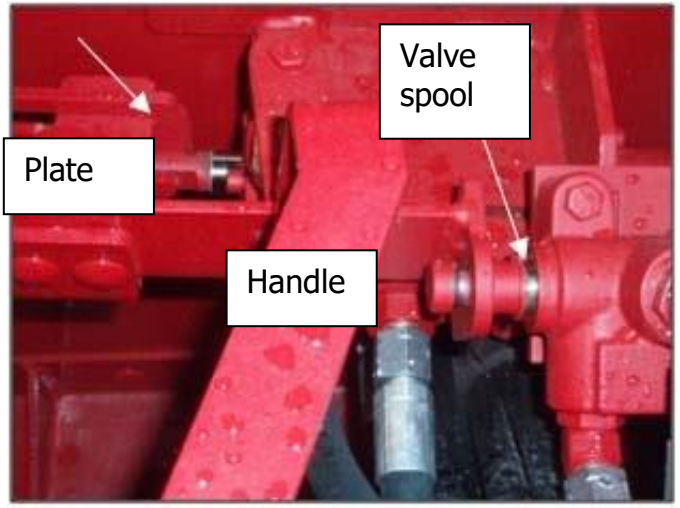


Figure 50 – Adjusting the automatic system (spool position)

5. Measure the distance from the snap ring and the valve body. If the distance is at 3mm (1/8 in) (Figure 51). The valve is adjusted correctly.

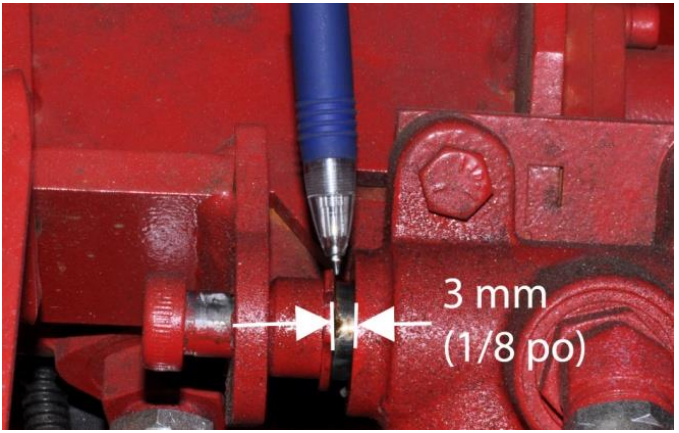


Figure 51 – Adjusting the automatic system (spool measurement)

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 52).
   Move the plate forward (Figure 52) by using the handle of the manual start of the hoop. Until you have a space of 3 mm (1/8 in) (Figure 51) do this while leaving the plate at the end of the slot that it sits in (Figure 50).
   - Tighten the two bolts again (Figure 52).

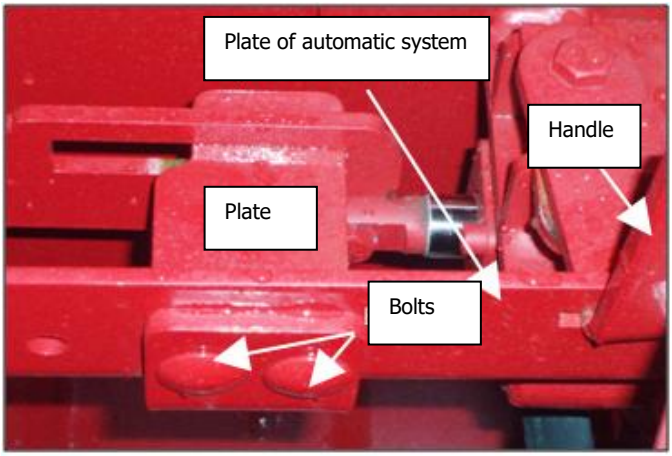


Figure 52 – Adjusting the automatic system (Moving the plate)

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.

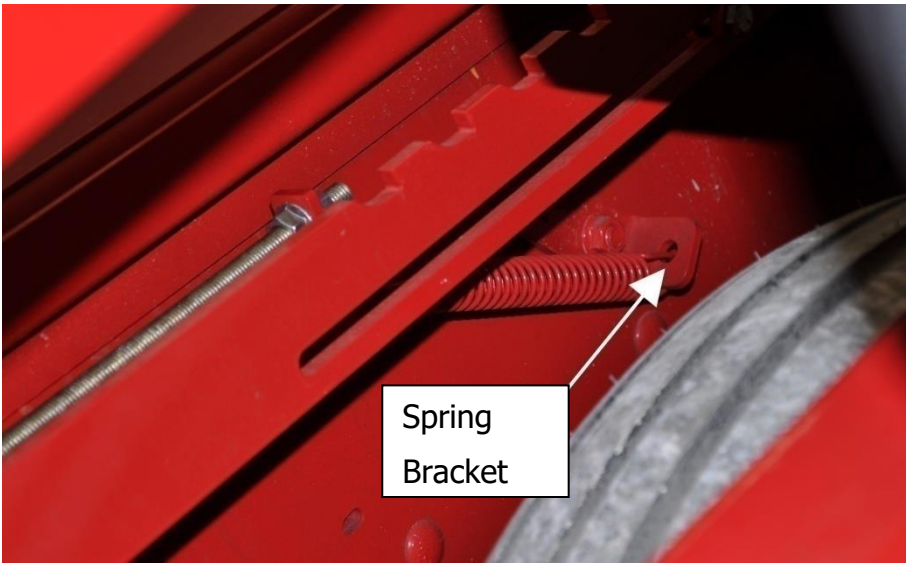


Figure 53 – Adjusting the automatic system spring

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.

Adjusting the tension of the outside hoop

After a period of time the outside hoop may become a bit loose. The stretchers that are attached to the outside hoop may then be in danger of hitting stationary parts of the wrapper and damage them. The outside hoop is too loose if the space between the bottom part of the hoop and the wheels do not touch. If this is the case, you should adjust the tension of the outside hoop by adjusting the inside hoop accordingly. To do this, follow the below procedure.

NOTE :	The adjustment should be done on each side of the wrapper and the adjustment should be identical on each side.

1. Loosen the 2 bolts that fix the plates of the inside hoop together (Figure 54).

Figure 54 – Adjusting the tension of the outside hoop

2. Tighten the extension bolt between the two nuts to separate the sections of the interior hoop. This will in turn put more tension on the outside hoop. This must be done equally on all sections of the hoop.

NOTE :

To verify the adjustment of the hoop to be sure that it is ok. Be sure that you do not have excessive movement when pulling on it by hand.

You should also verify the rotation of the hoop by moving it manually. As the inside hoop is not a perfect circle, the outside hoop should turn quite easily except when one of the hoop wheels are in the bend of the bottom inside hoop.

3. Once the tension has been adjusted correctly, insert the spacers provided by Anderson to fill in the spaces on the inside hoop plates.

Attention!

Be sure that the spacers are flush with the adjustment plates (round tube) of the hoop. If not you can damage the hoop wheels.

4. Unscrew the extension bolt until the plates are tight against the spacers.

5. Tighten the nuts on each end.

Hoop drive wheel

The hoop may slow down or stop because the drive wheel is slipping on the hoop. To adjust the wheel, proceed as follows:

1. Loosen the nut (1) that holds the spring of the wheel (Figure 55).
2. Tighten the nut at the end of the threaded rod (2) to put more tension on the spring of the drive wheel.
3. Once the tension of the spring is correct, tighten the nut (1).

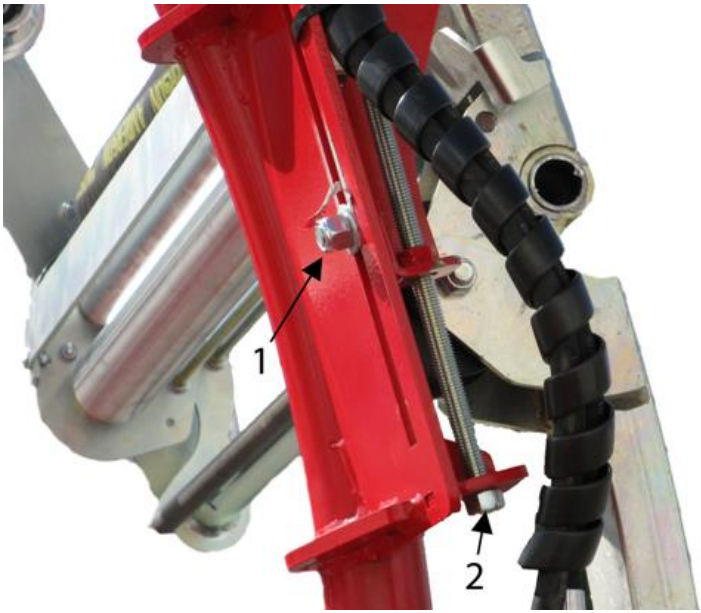


Figure 55 – Adjusting the hoop drive wheel

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 1).

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.	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 9 – Engine trouble

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.	1. Pick up the bale again and rotate it a few degrees and re-load it. 2. Widen the bale guides (See section Width of your bales (Bale guides) Page 56).
	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 triggers on page 76
	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 56.
	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 71.

Problem	Possible causes	Solution
The pusher does not return to the home position at the end of its cycle.	The automatic system may be dirty.	Clean the automatic system.
	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 10 – 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 11 – X-Tractor trouble

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.	1. Tighten the hoop wheel spring. See section 6.7 Advanced adjustments 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.	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 12 – 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 solevent and tighten the components of the plastic watch system.

Table 13 – Diverse trouble

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 14 – 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.

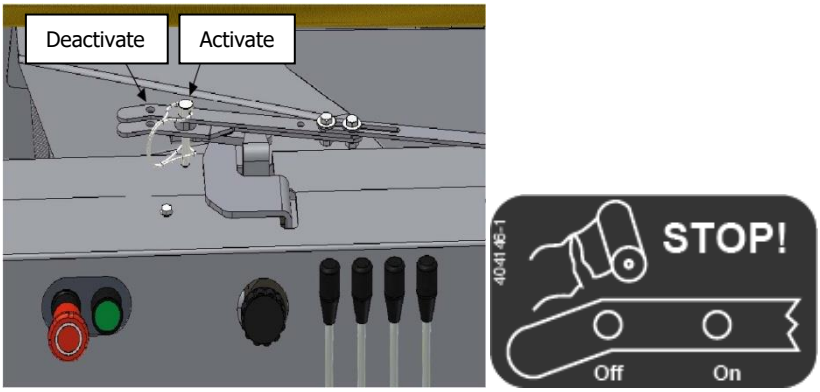


Figure 56 – Activation / deactivation of the plastic watch

9.3 High capacity gas tank (25liter, 5gal)

This option includes a 25 litre capacity fuel tank and a control lever to select the reservoir. The addition of this tank gives a larger autonomy to the wrapper.

Figure 57 – 25 liter fuel tank

Using the fuel tanks

NOTE :	With this option, your wrapper will be equipped with two fuel tanks. As the optional 25 liter tank has a larger capacity than the tank of the Honda engine, you should always use it first. Keep the engine tank for emergencies when the optional tank is empty.

A selection valve situated near the engine and allows you to choose the tank that will supply the fuel to the engine. To select the 25 liter tank (Large tank), place the control lever of the valve to the left-hand side. When this reservoir is empty, place the control lever to the right-hand side so you can select the tank for the engine. Make sure to keep enough gas to allow you to finish your work.

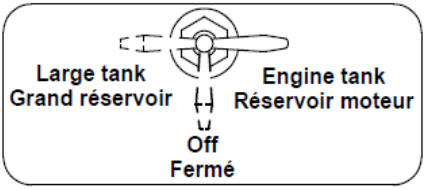


Figure 58 – Fuel tank selection

9.4 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 9.5).

Warning!	**This remote is not waterproof.**

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.

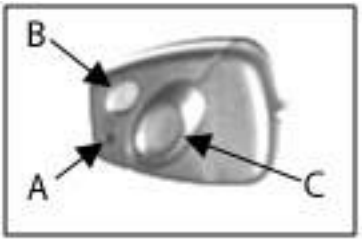


Figure 59 – Functions of the remote

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.

Figure 60 – Start engine and emergency stop sticker

3. Push on the green button (**B**) of the remote control (Figure 59).

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 15 – Troubleshooting the remote start and stop

9.5 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 61 – 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 62 – The receiver of the remote steering

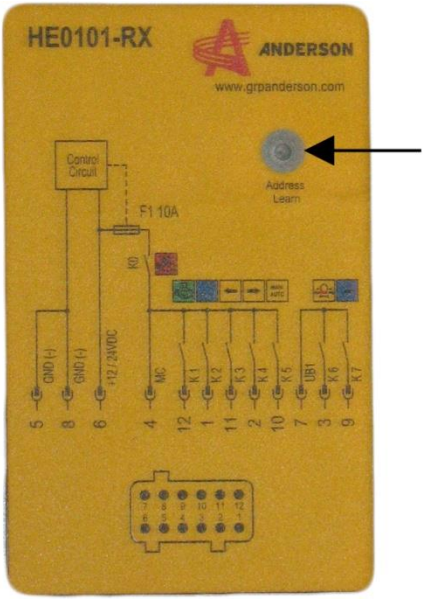


Figure 63 – Control panel of the remote steering option

Explaining of the LED signal lights:

Red LED	Green LED	Yellow LED	Description
Lit	OFF	OFF	Connection problem (*output diagram*)
OFF	OFF	Blinking	Waiting for signal
OFF	Blinking	OFF	Signal received

Table 16 – 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 17 – 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 18 – 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.

Danger!

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.

2. Turn on the remote steering by pressing the blue button on the control panel (Figure 61).
3. Press and hold the start engine button on the remote control (button 7)
4. Press the **Address Learn** button (Figure 63) 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.

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 61). 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

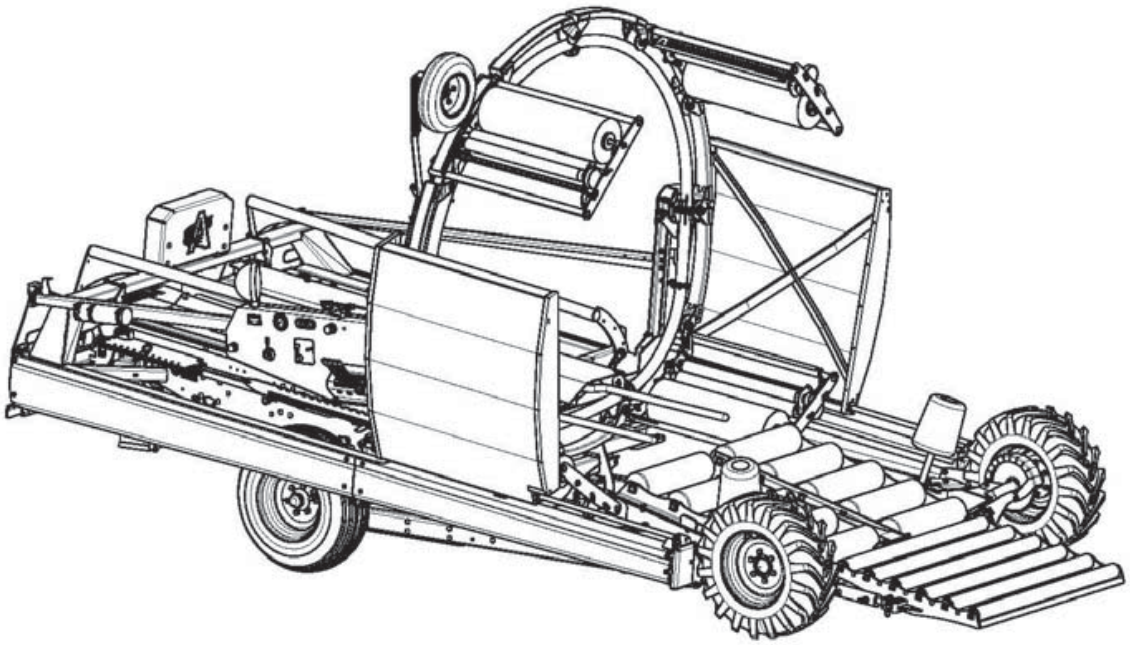
Problem	Possible causes	Solution
The remote control does not work	The battery is not charged or is dead	Replace the battery of the remote control. When you press on a button, the green LED will flash to indicate that the remote control is passing on a signal.
The remote is transmitting (the LED is blinking) 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 63)
	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 19 – Trouble with the remote steering

404652-2

ANDERSON

Round and square bale wrapper Hybrid X



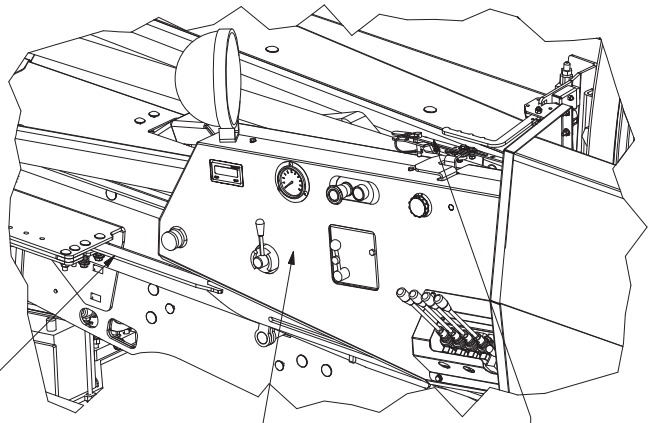
CE

Parts's Manual 2021

Content

1 - GENERAL VIEW

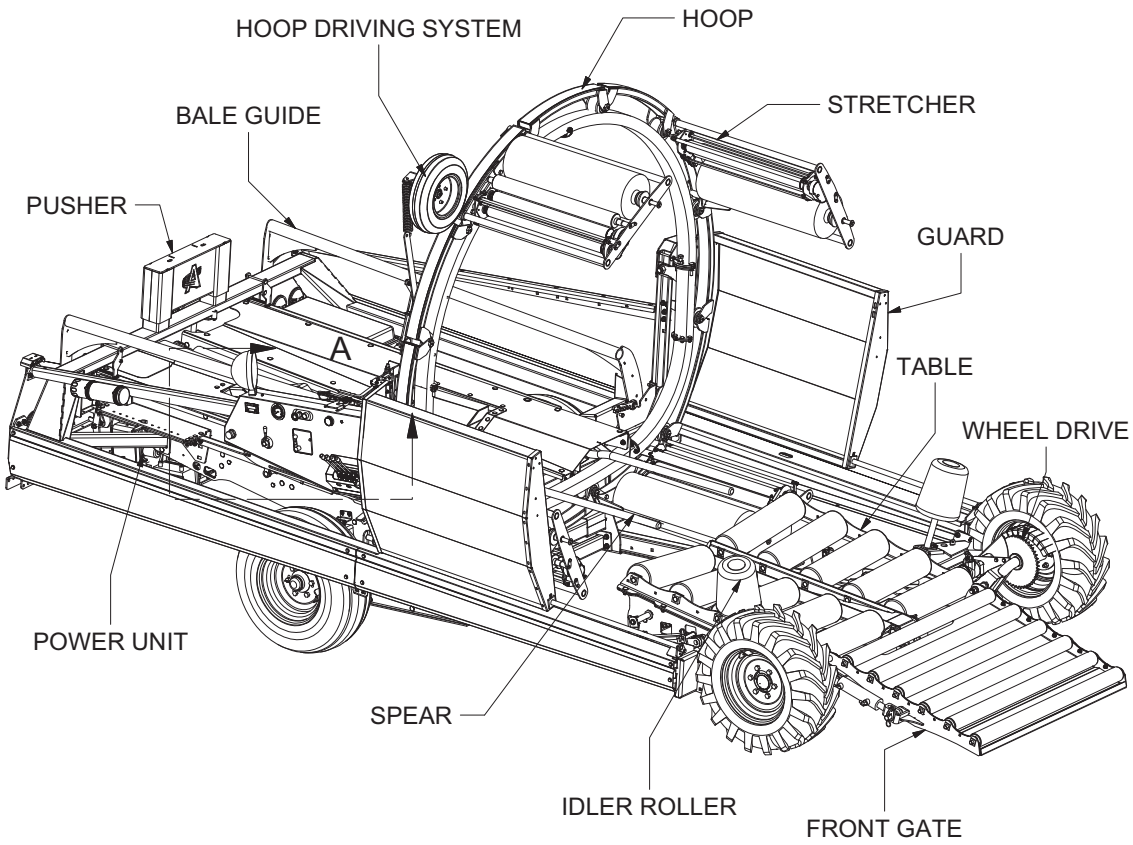
DETAIL A



PUSHER AUTOMATIC SYSTEM

CONTROL PANEL

PLASTIC WATCH



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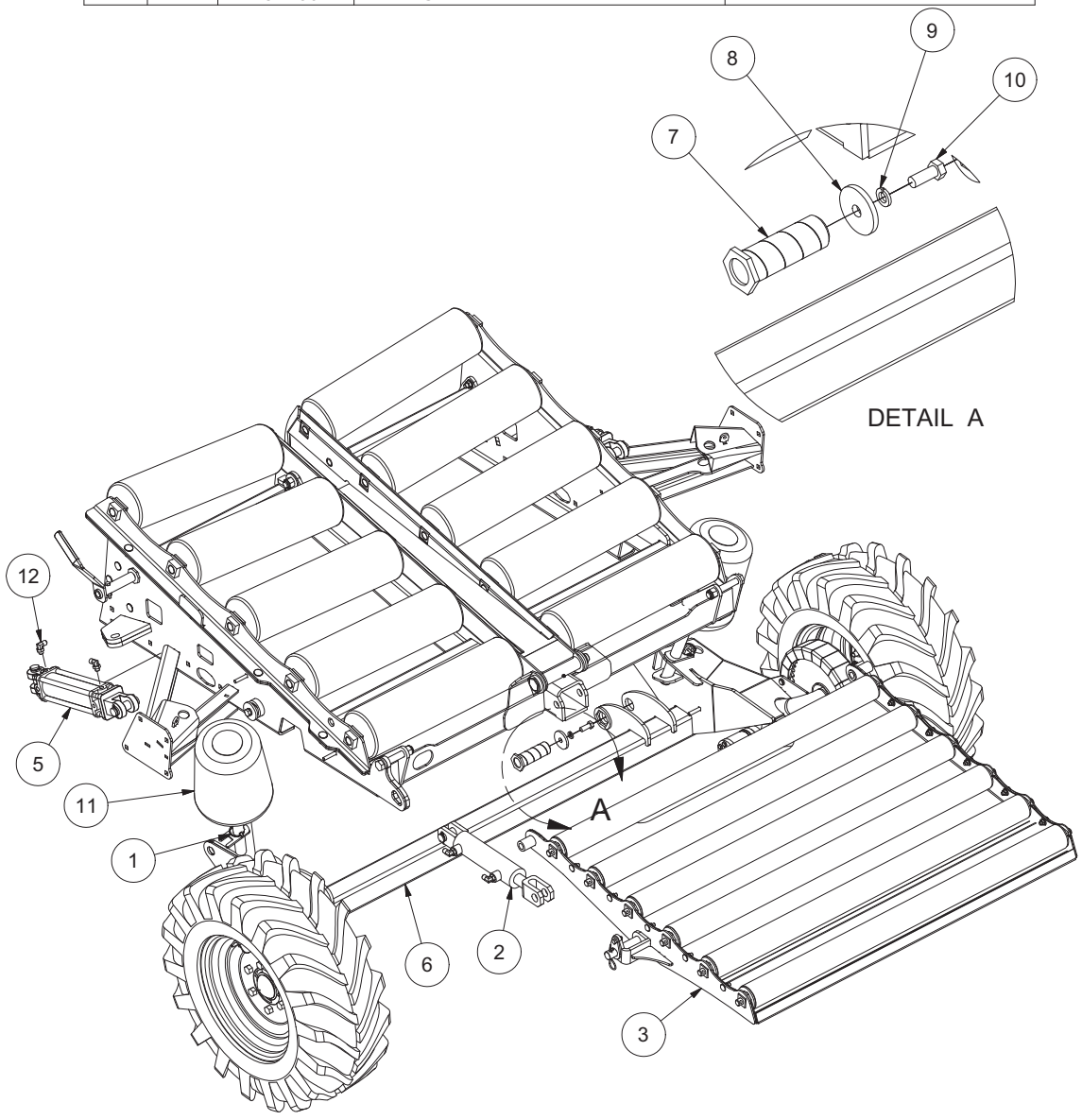
2 - COMPLETE FRONT SECTION

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	2	320007	PIN	
2	1	467099	HYDRAULIC CYLINDER	
3	1	***	FRONT GATE	
4	1	242097-1	FRONT GATE LOCK	
5	1	467215	HYDRAULIC CYLINDER	
6	1	242095-1	SPINDLE	
7	2	242104-1	SPINDLE AXLE	
8	2	242105-1	WASHER	
9	2	502048	LOCK WASHER 1/2	
10	2	500175	HEX BOLT GR5 1/2-13 X 1 1/4	
11	2	210832	ROLLER SUPPORT	
12	2	451260	FITTING	



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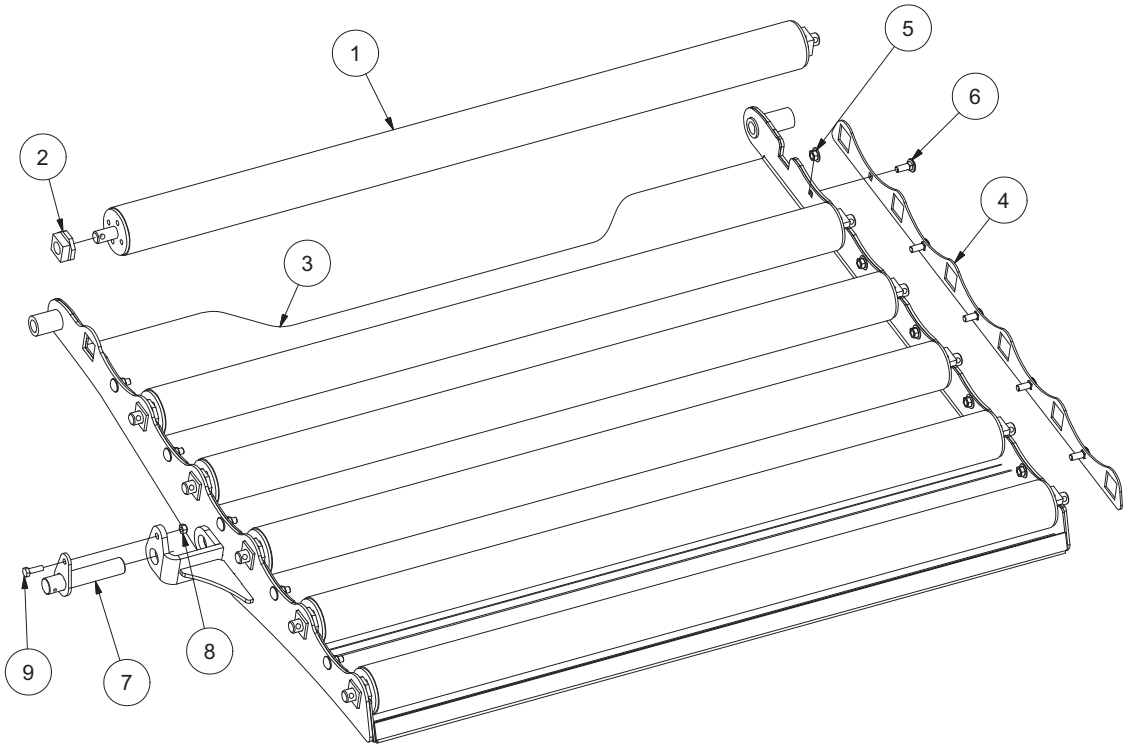
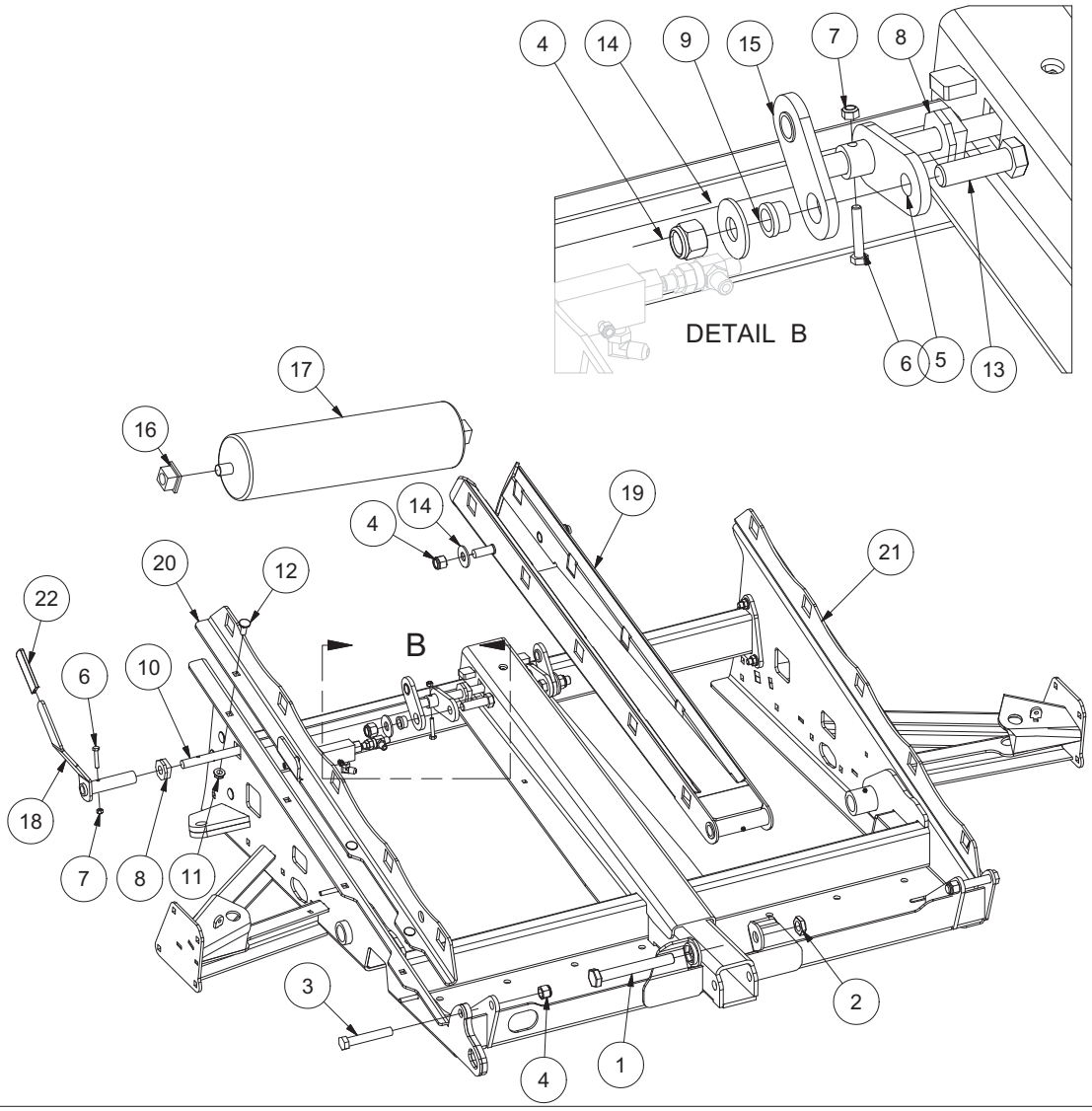
3 - FRONT GATE

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	6	210517-0	FRONT GATE ROLL	
2	12	279002	PLASTIC BUSHING	
3	1	242098	FRONT GATE FRAME	
4	1	242099	ROLL LOCK	
5	10	501022	HEX FLANGE NUT GR2 3/8-16 Z	
6	10	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
7	1	244320	CYLINDER HEAD PIN	
8	1	501031	HEX NYLON LOCKNUT GR5 5/16-18 Z	
9	1	500044	HEX BOLT GR5 5/16-18 X 1	



4 - FRAME FRONT SECTION

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	500338	HEX BOLT GR5 1-8 X 7 1/2	
2	1	501057	HEX HALF NUT GR5 1-8 Z	
3	2	500295	HEX BOLT GR5 3/4-10 X 4 1/2	
4	6	501036	HEX NYLON LOCKNUT GR5 3/4-10 Z	
5	2	242100	LOWER LINK	
6	3	500050	HEX BOLT GR5 5/16-18 X 1 3/4	
7	3	501031	HEX NYLON LOCKNUT GR5 5/16-18 Z	
8	3	279002	PLASTIC BUSHING	
9	2	492019	SPACER	
10	1	492021	LIFTING SHAFT	
11	14	501024	HEX FLANGE NUT GR2 1/2-13 Z	
12	8	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
13	2	500287	BOLT	
14	4	502009	FLAT WASHER 3/4 Z	
15	2	242103	UPPER LINK	
16	20	279001	PLASTIC BUSHING	
17	10	224408	ROLL	
18	1	242102-1	LIFTING HANDLE	
19	1	242106-1	FRONT CENTER FRAME	
20	1	242101-1	RIGHT OUTSIDE ROLL SUPPORT	
21	1	242101-2	LEFT OUTSIDE ROLL SUPPORT	
22	1	325132	PLASTIC HANDLE	



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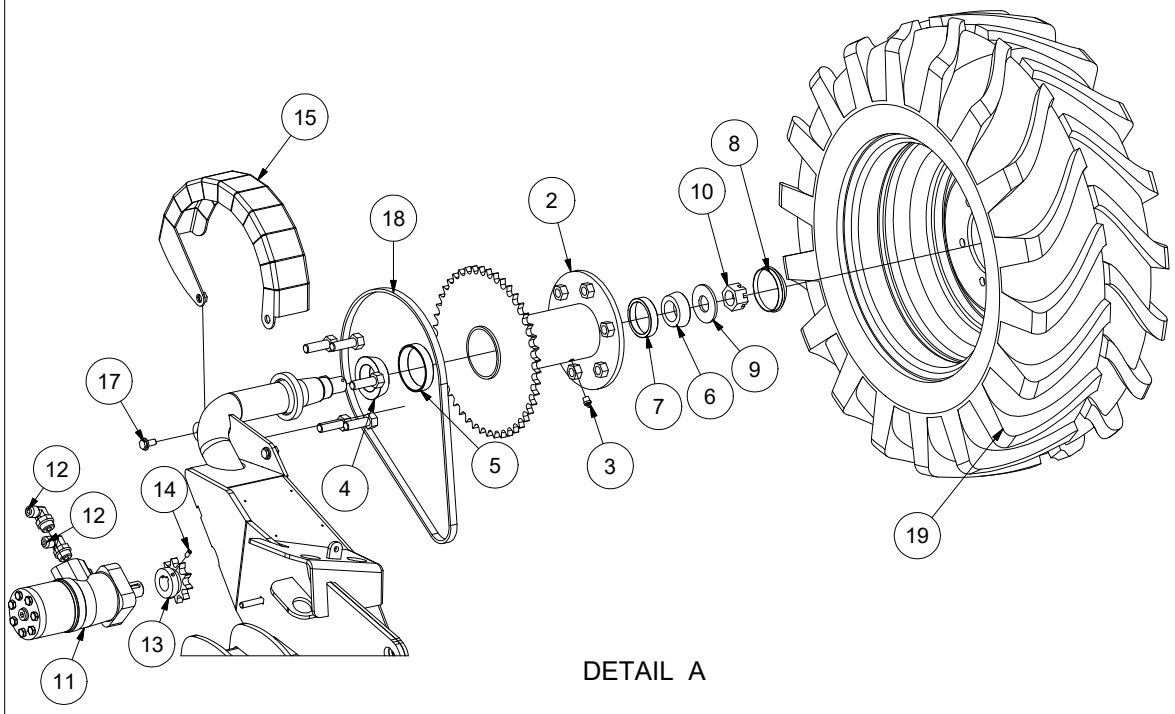
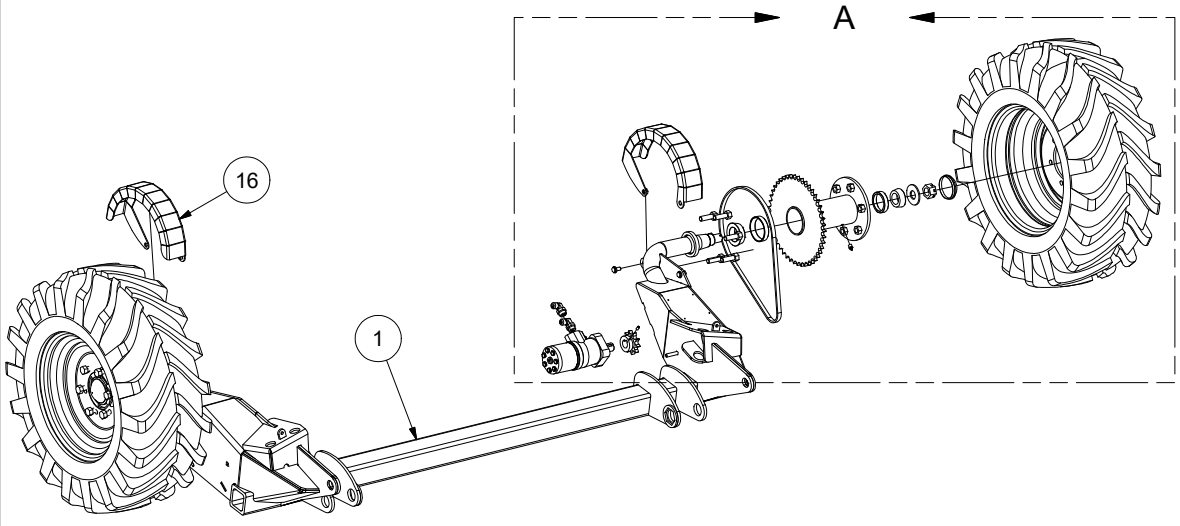
5 - FRONT SPINDLE



DETAIL A



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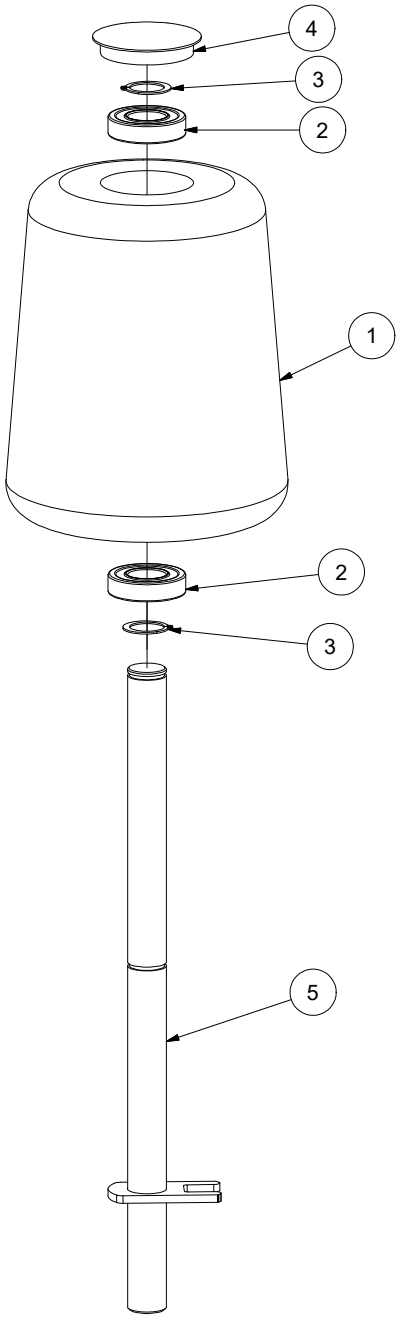
5 - FRONT SPINDLE

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242110-1	SPINDLE FRAME	
2	2	210016	HUB WITH SPROCKET	
3	2	322295	GREASE FITTING	
4	2	303501	BEARING LM603049	
5	2	303099	BEARING LM603011	
6	2	303034	BEARING LM48548	
7	2	303037	ROLLING BEARING CAGE LM48510	
8	2	481005	CAP	
9	2	502011	FLAT WASHER 1 Z	
10	2	501075	HEX CASTLE NUT 1-14	
11	2	469159	HYDRAULIC MOTOR	
12	4	451266	8 M.JIC - 10 M.ORB 90°	
13	2	301010	ROUE DENTÉE	
14	4	507003	HEX SOCKET SET SCREW CUP 1/4-20 X 1/2	
15	1	242127-1	RIGHT CHAIN GUARD	
16	1	242126-1	LEFT CHAIN GUARD	
17	4	500600	HEX FLANGE BOLT GR5 3/8-16 X 3/4 Z	
18	2	302594	TRACTION CHAIN	
19	1	481503	FRONT AXLE TRACTION TIRE	

6-ROLLER SUPPORT

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	325112	PLASTIC CONE	
2	2	303045	BEARING 1654-Z	
3	2	320006	RETAINING RING	
4	1	325107	CAP	
5	1	224026-1	ROLLING SUPPORT STAND SHAFT	



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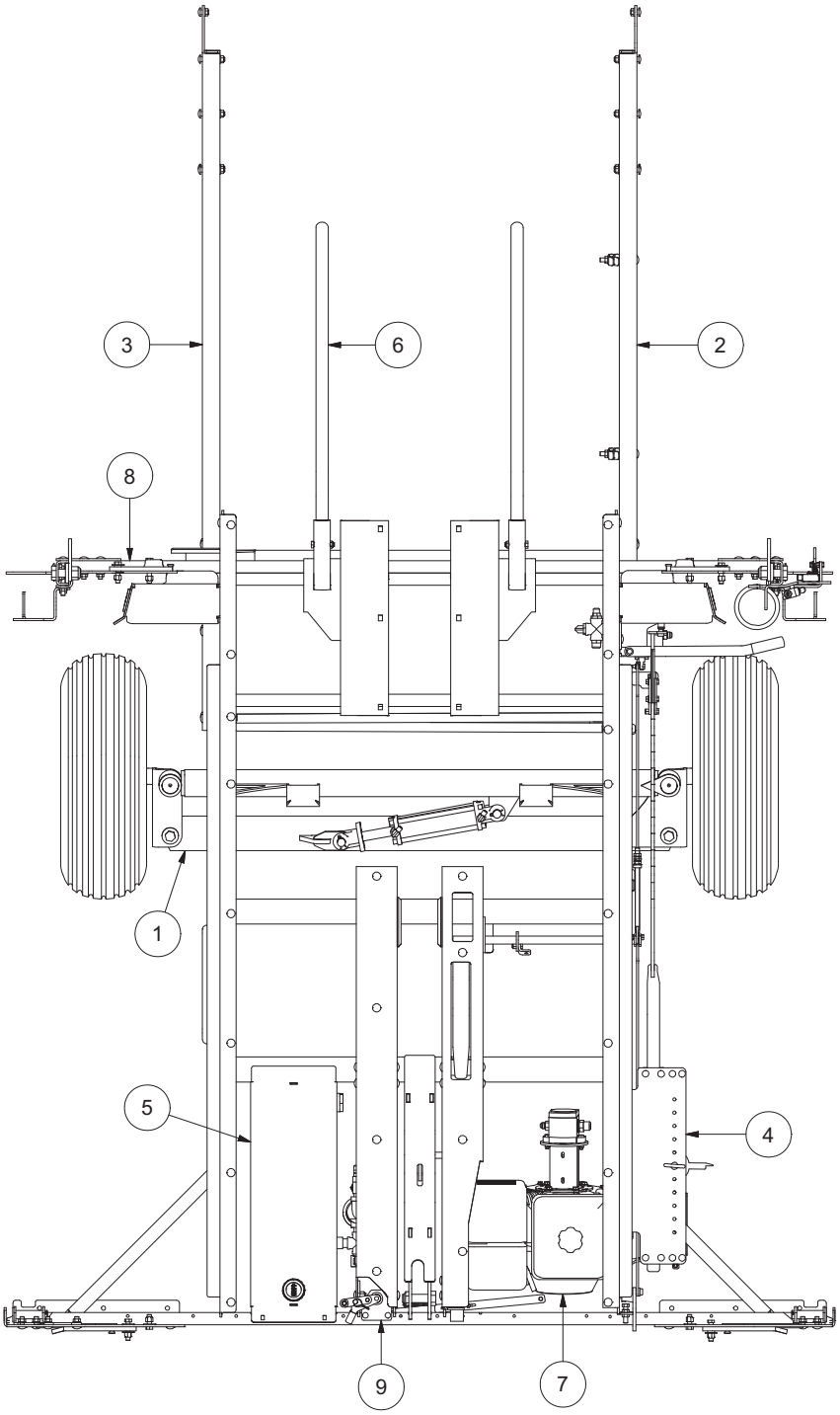
7 - REAR FRAME

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	***	STEERING WHEEL	
2	1	242108-1	RIGHT LINKING BEAM	
3	1	242109-1	LEFT LINKING BEAM	
4	1	***	AUTOMATIC SYSTEM	
5	1	***	OIL TANK	
6	1	210620-2	SPEAR	
7	1	***	POWER UNIT	
8	1	***	HOOP SUPPORT	
9	1	***	COMPLETE THROTTLE	



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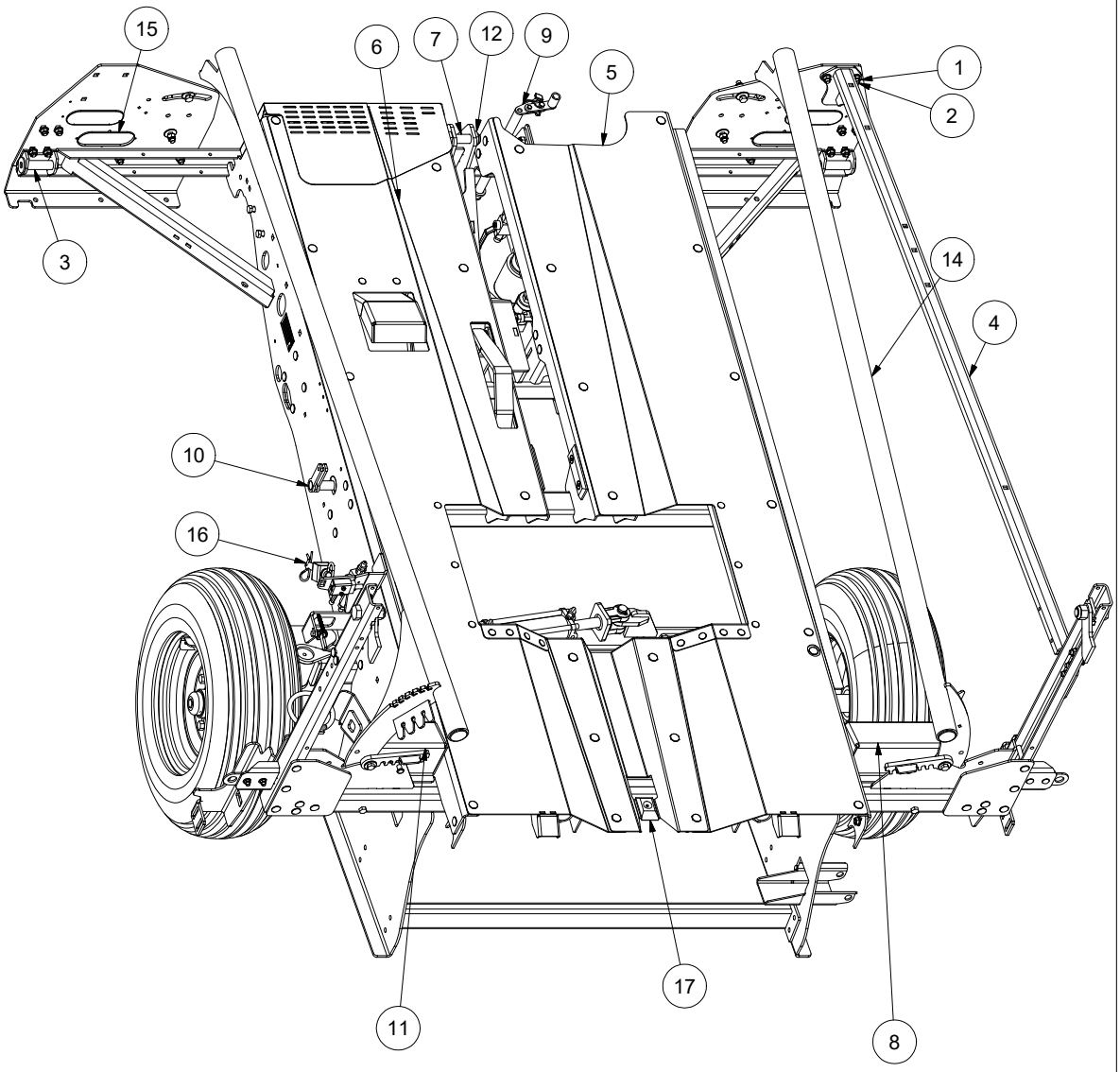
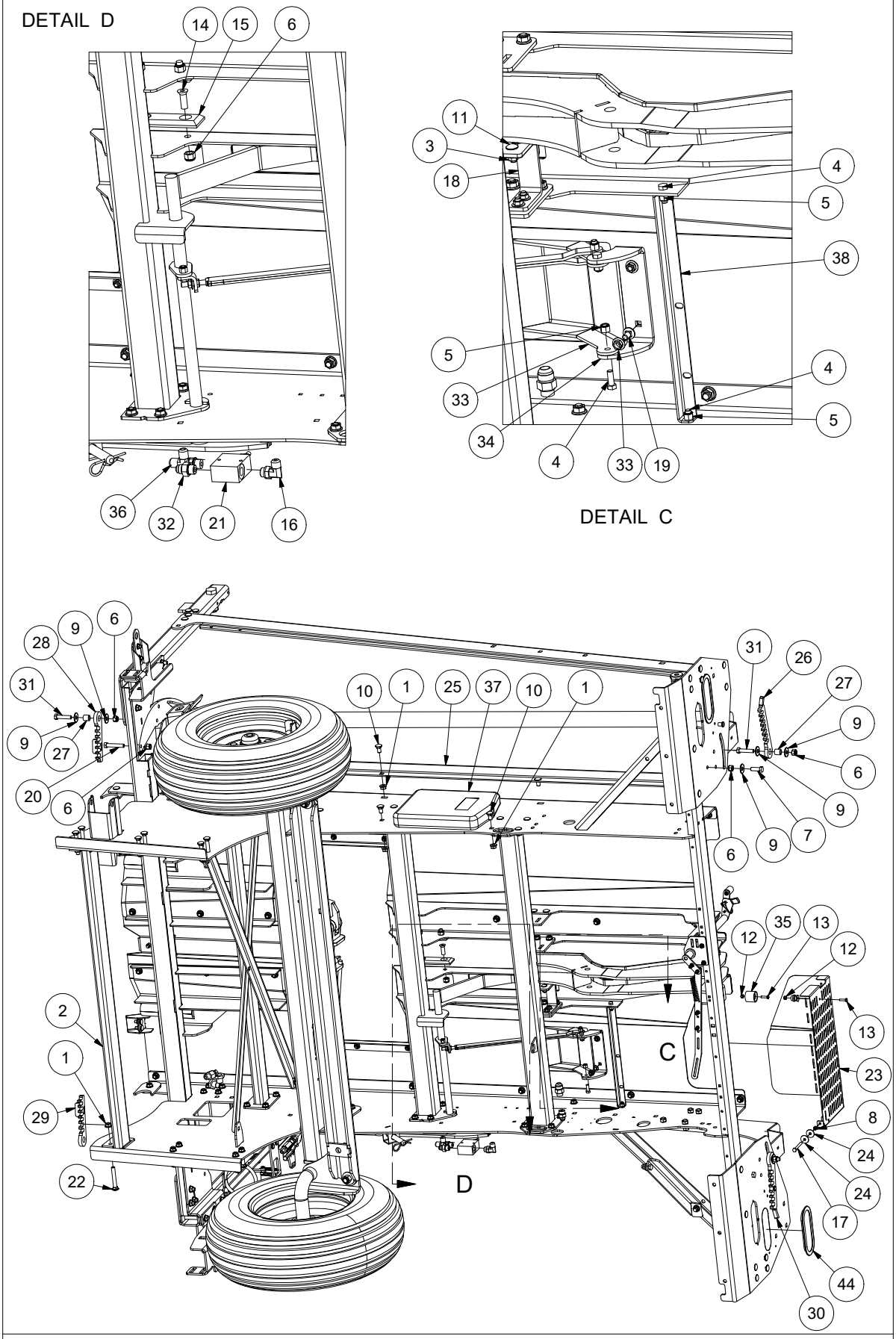
8 - REAR FRAME

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	161	501024	HEX FLANGE NUT GR2 1/2-13 Z	
2	24	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
3	2	242111	PUSHER CYLINDER PIN	
4	1	242112	TRANSVERSE RÉINFORCMENT	
5	1	242113-1	LEFT PLATE	
6	1	242114-1	RIGHT PLATE	
7	1	500328	HEX BOLT GR51-8 X 3 1/2 Z	
8	1	242115	LEFT TOGGLE PLATE	
9	1	242116	THROTTLE	
10	1	242117-1	RELEASE PLATE	
11	1	242118	RIGHT TOGGLE PLATE	
12	1	501057	HEX HALF NUT GR5 1-8 Z	
14	1	242120	LEFT BALE GUIDE	
15	1	210136-3	LIGHT KIT	
15	1	210136-2	EUROPE LIGHT KIT	
15	1	319858-1	EUROPE LIGHT ALONE WITH CONNECTOR	
16	1	320082	HITCH PIN	
17	1	492042	TEFLON	



8 - REAR FRAME



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8 - REAR FRAME

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PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	161	501024	HEX FLANGE NUT GR2 1/2-13 Z	
2	1	242094	FRAME REINFORCMENT	
3	51	501022	HEX FLANGE NUT GR2 3/8-16 Z	
4	19	500084	HEX BOLT GR5 3/8-16 X 1	
5	29	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
6	19	501034	HEX NYLON LOCKNUT GR5 1/2-13 Z	
7	2	500177	HEX BOLT GR5 1/2-13 X 1 1/2	
8	3	501031	HEX NYLON LOCKNUT GR5 5/16-18 Z	
9	10	502006-1	FLAT WASHER 1/2 Z	
10	101	500500	CARRIAGE BOLT GR5 1/2-13 X 1 Z	
11	14	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
12	10	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
13	9	500006	HEX BOLT GR5 1/4-20 X 1	
14	4	507054	HEX FLAT HEAD CAP SCREW GR5 1/2-13 X 1 1/2	
15	2	308009	TIVAR	
16	1	451265	8 M.JIC - 8 M.ORB 90°	
17	1	500057	HEX BOLT GR5 5/16-18 X 2 3/4	
18	1	242006	LOCK SUPPORT	
19	20	500440	CARRIAGE BOLT GR5 3/8-16 X 3/4 Z	
20	2	500184	HEX BOLT GR5 1/2-13 X 2 3/4	
21	1	466014	RELIEF VALVE	
22	4	500509	CARRIAGE BOLT GR5 1/2-13 X 3 1/2 Z	
23	1	242009-1	ENGINE COVER	
24	2	502072	FLAT WASHER 5/16 Z	
25	2	242011	GUIDE	
26	1	242012	REAR LEFT ADJUSTMENT	
27	4	308015	SPACER	
28	1	242013	FRONT LEFT ADJUSTMENT	
29	1	242014	FRONT RIGHT ADJUSTMENT	
30	1	242015	REAR RIGHT ADJUSTMENT	
31	4	500181	HEX BOLT GR5 1/2-13 X 2 1/4	
32	1	451178	8 M.JIC - 8 M.ORB	
33	1	242018-1	TIGGER	
34	1	242016-1	TRIGGER LINK	
35	1	325115	PRESSURE HOLDER	
36	1	451324	M JIC 8 - M ORB 6 TE	
37	1	325109-1	MANUAL CASE	
38	1	66-PLAT-053-A	TANK SUPPORT BRACKET	

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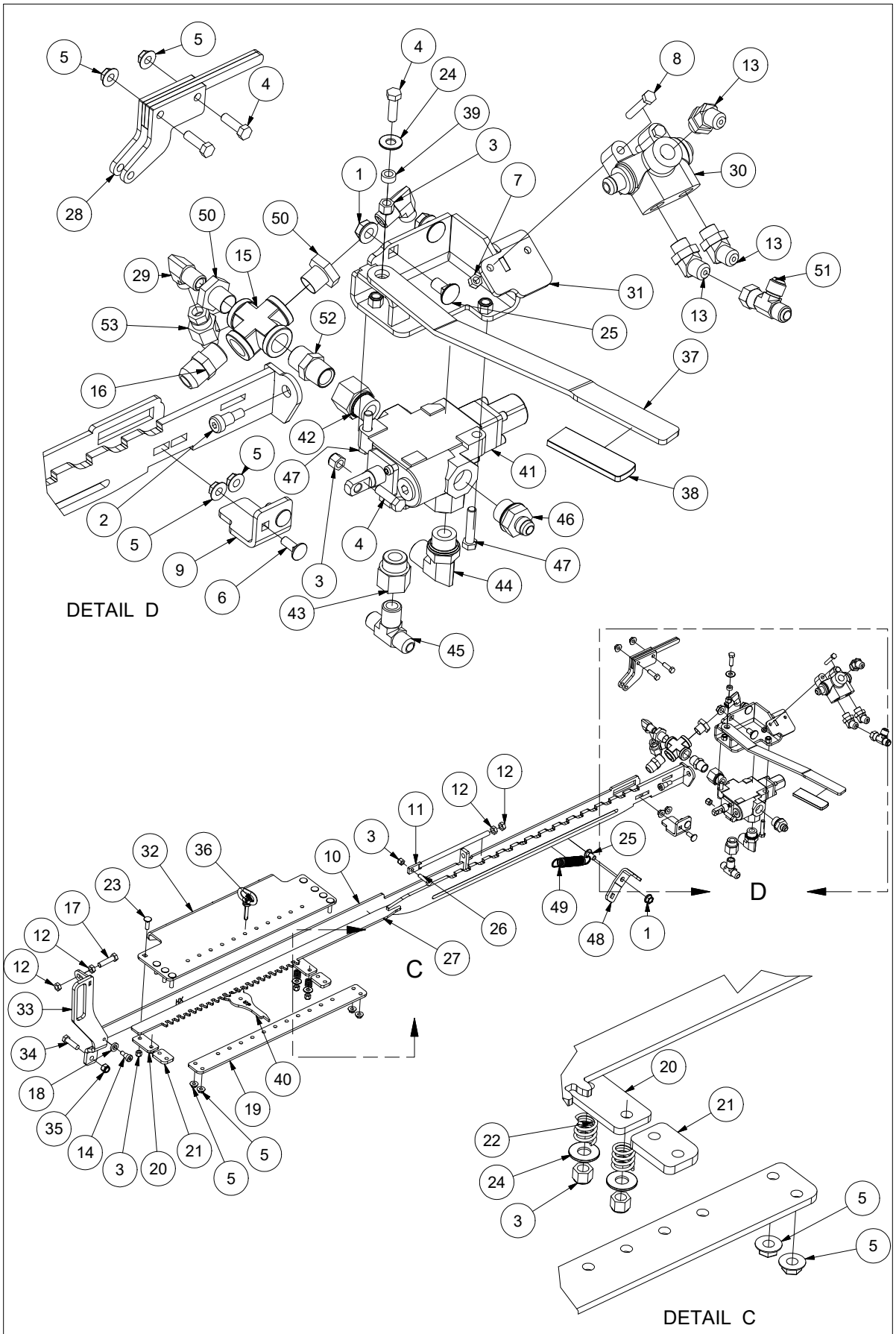
9 - AUTOMATIC SYSTEM



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9 - AUTOMATIC SYSTEM

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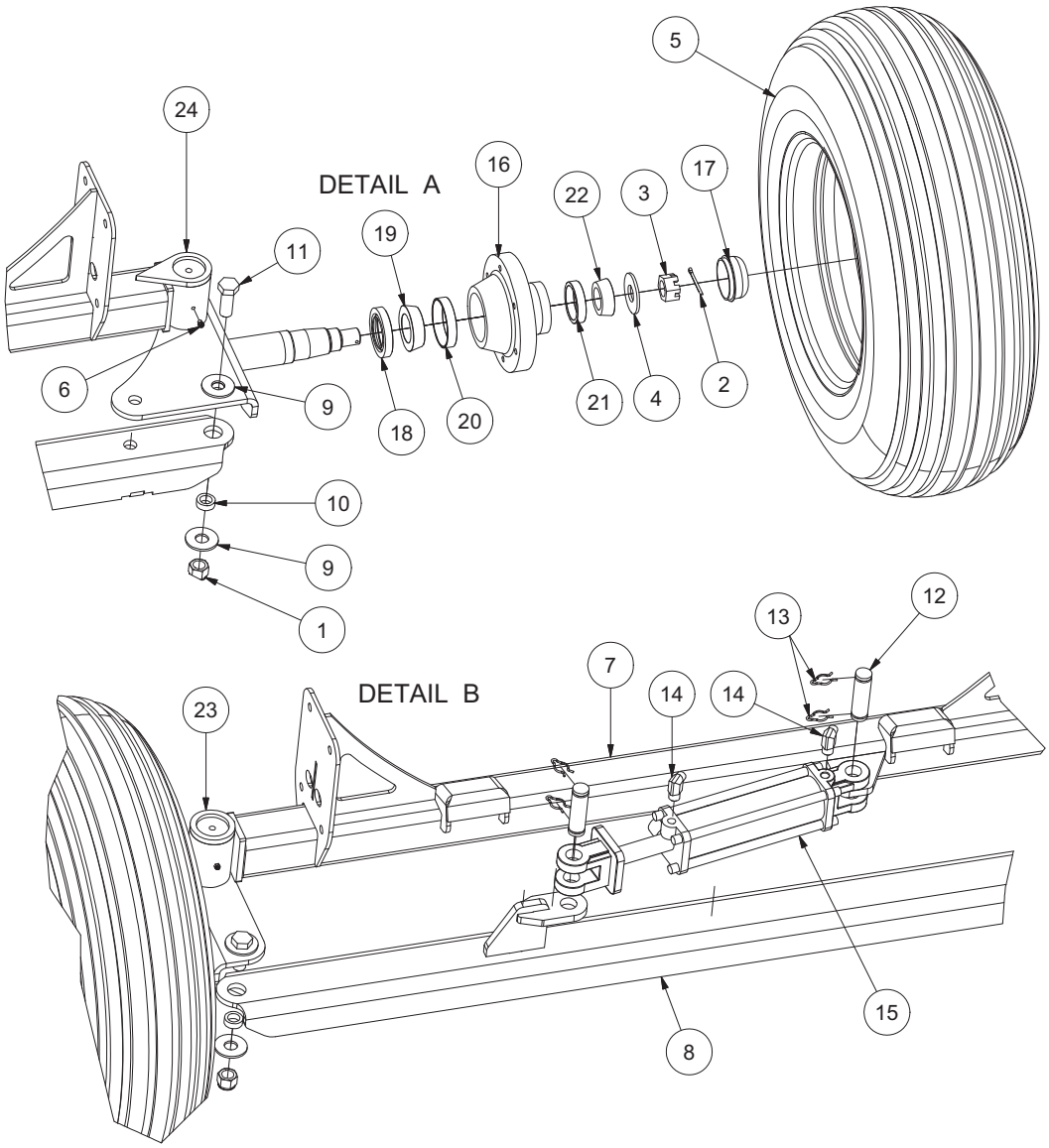
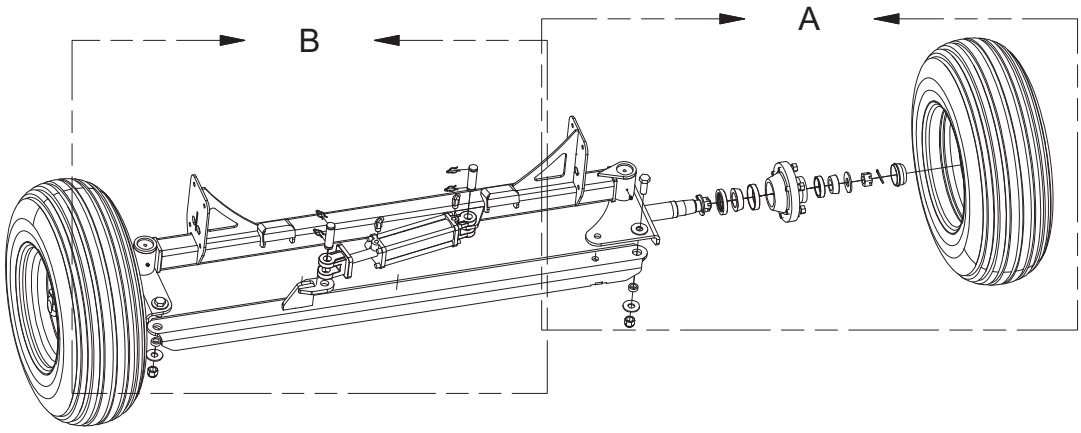
PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	6	501024	HEX FLANGE NUT GR2 1/2-13 Z	
2	1	500578	SHOULDER SCREW	
3	9	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
4	4	500086	HEX BOLT GR5 3/8-16 X 1 1/4	
5	8	501022	HEX FLANGE NUT GR2 3/8-16 Z	
6	2	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
7	2	501031	HEX NYLON LOCKNUT GR5 5/16-18 Z	
8	2	500052	HEX BOLT GR5 5/16-18 X 2	
9	1	242128	AUTOMATIC SYSTEM RETURN STOPPER	
10	1	242129	PUSHER ACTIVATION PLATE	
11	1	210784	ADJUSTMENT ROD	
12	5	501004	HEX NUT 1/2-13 Z	
13	3	451229	8 M.JIC - 8 M.ORB 45°	
14	1	500570	HEX SOCKET HEAD CAP SCREW 1/2 X 1/2	
15	1	450298	CROSS	
16	1	450558	12 M.JIC - 12 M.NPT	
17	1	500180	HEX BOLT GR5 1/2-13 X 2	
18	1	210148	WASHER	
19	1	210781-1	POINT PLATE SUPPORT	
20	2	210656-1	RACK AND PINION SUPPORT PLATE	
21	2	210814	POINT PLATE SUPPORT	
22	2	310014	SPRING	
23	2	500443	CARRIAGE BOLT GR5 3/8-16 X 1 1/4 Z	
24	3	502004	FLAT WASHER 3/8 Z	
25	6	500500	CARRIAGE BOLT GR5 1/2-13 X 1 Z	
26	1	500088	HEX BOLT GR5 3/8-16 X 1 1/2	
27	1	242130-1	RACK IN PINION	
28	1	210273	STOPPER SYSTEM	
29	2	450716	M JIC 8 - M NPT 8 90 DEG	
30	1	465890-1	HYDRAULIC VALVE	
31	1	242000-2	VALVE SUPPORT	
32	1	242002-2	RACK IN PINION SUPPORT	
33	1	242131-1	MANUAL LEVER	
34	1	500179	HEX BOLT GR5 1/2-13 X 1 1/2	
35	1	501034	HEX NYLON LOCKNUT GR5 1/2-13 Z	
36	1	320121	HANDLE PIN	
37	1	242001	MANUAL HOOP TRIGGER	
38	1	325132	PLASTIC HANDLE	
39	1	492039	SPACER	
40	1	244058-1	POINT PLATE	
41	1	465041	HYDRAULIC VALVE	
42	1	451127	12 M.ORB - 12 F.NPT	
43	1	451126	12 M.ORB - 8 F.NPT	
44	1	451276	12 M.JIC - 12 M.ORB 90°	
45	1	450829	8 M.JIC - 8 M.NPT	
46	1	451180	HYDRAULIC FITTING	
47	2	500090	HEX BOLT GR5 3/8-16 X 1 3/4	
48	1	210640	SPRING ATTACHMENT	
49	1	304001	SPRING	
50	2	450029	12 M.NPT - 8 F.NPT	
51	1	450973	T 8 F.JIC - 8 M.JIC	
52	1	450011	M NPT 12 - M NPT 12	
53	1	450973	HYDRAULIC FITTING	

10 - STEERING AXLE





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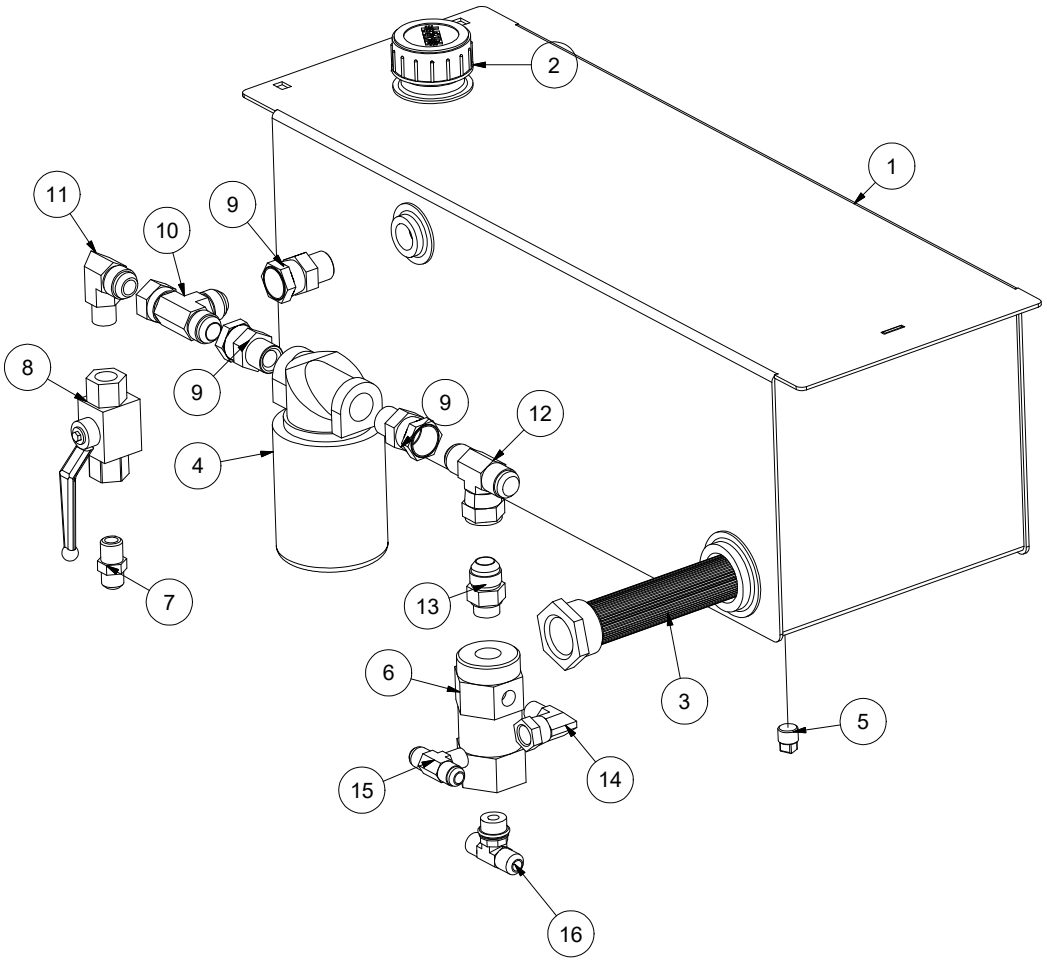
10 - STEERING AXLE

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	2	501036	NYLON NUT	
2	2	320042	COTTER PIN	
3	2	501076	CASTLE NUT	
4	2	502011	FLAT WASHER	
5	2	481507	TIRE AND RIM	
6	2	322299	GREASE FITTING	
7	1	242020-1	RIGID AXLE	
8	1	242024-1	LINK AXLE	
9	4	502009	FLAT WASHER	
10	2	492038	SPACER	
11	2	500285	BOLT	
12	2	467502	CYLINDER PIN	
13	4	467501	CYLINDER CLIP PIN	
14	2	450711	HYDRAULIC FITTING	
15	1	467215	HYDRAULIC CYLINDER	
16	2	481450	HUB	
17	2	481002	HUB CAP	
18	2	303500	DUST CAP	
19	2	303501	BEARING	
20	2	303099	BEARING	
21	1	303037	ROLLING BEARING CAGE	
22	1	303034	BEARING	
23	1	242021-1	LEFT AXLE	
24	1	242019-1	RIGHT AXLE	

11 - TANK

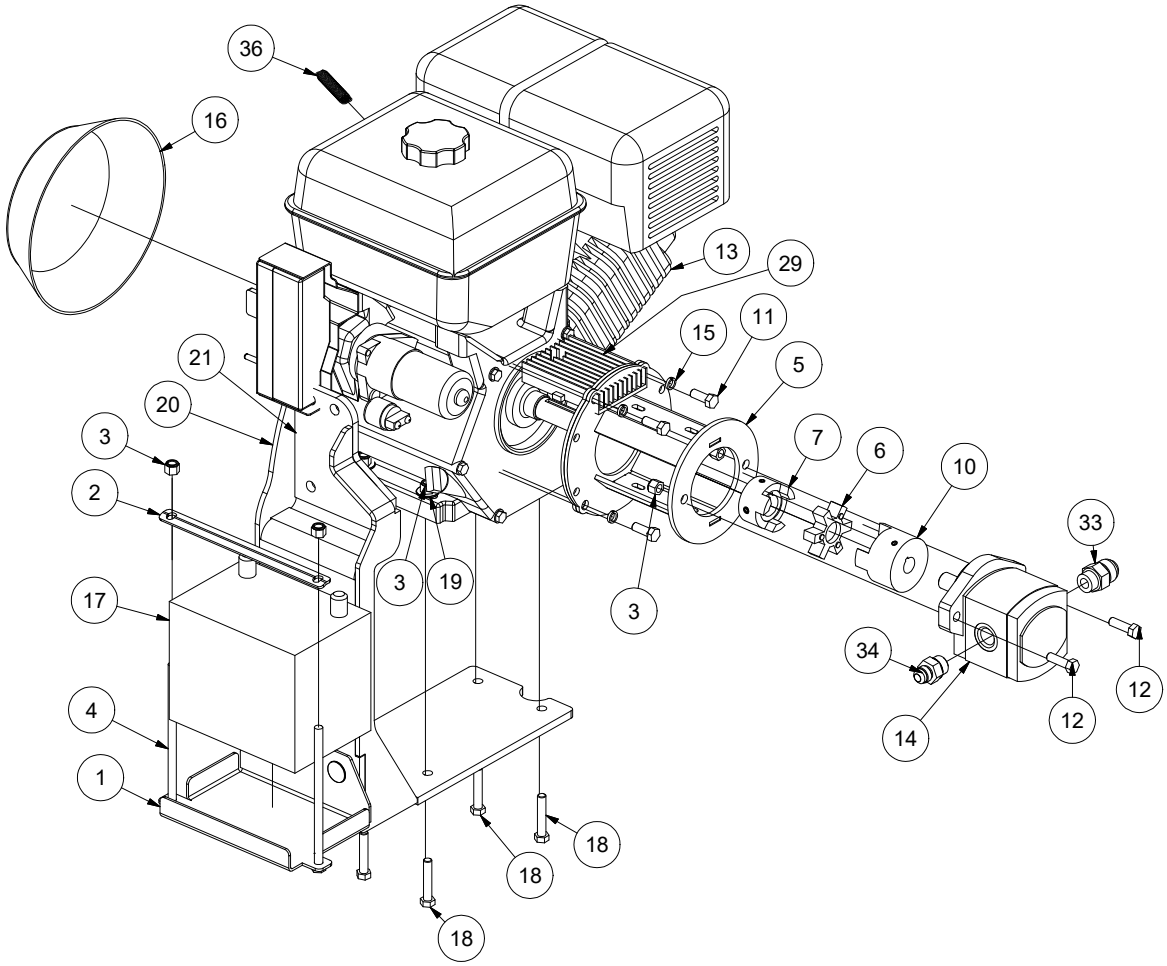
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	210279	TANK
2	1	470109	PLUG
3	1	470990	STRAINER
4	1	470013	FILTER
5	1	450072	PLUG 3/8
6	1	465917	PILOT OPERATED CHECK VALVE
7	1	450548	8 M JIC - 8 M NPT
8	1	466999	BALL VALVE
9	3	451000	12 F.JIC - 12 M.NPT
10	1	450975	HYDRAULIC FITTING
11	1	450723	HYDRAULIC FITTING
12	1	450985	12 M.JIC - 12 F.JIC
13	1	451189	12 M.JIC - 10 M.ORB
14	1	451413	6 M.ORB - 6 F.NPSM 90°
15	1	450828	8 M.JIC - 6 M.NPT
16	1	451313-1	8 M.JIC - 10 M.ORB



12 - POWER UNIT

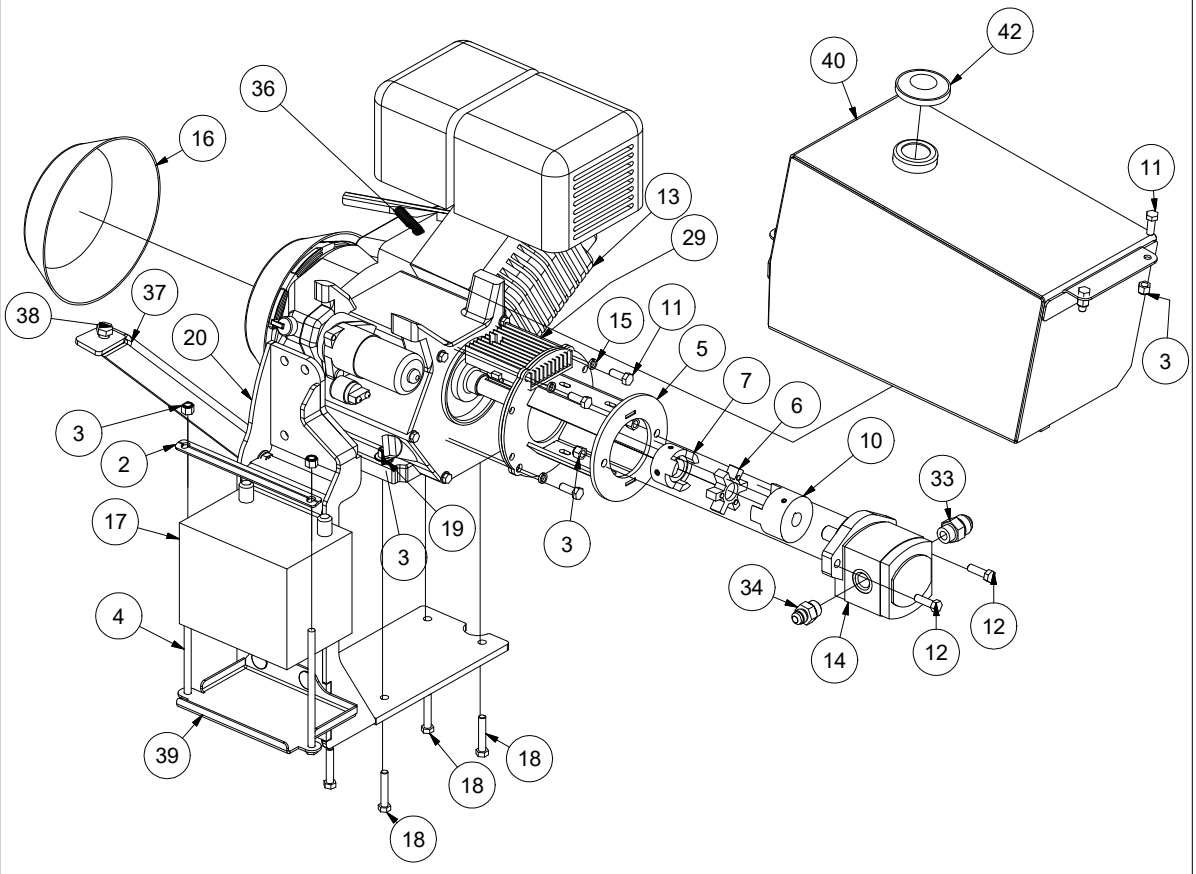
ANDERSON

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	210652	BATTERY SUPPORT	
2	1	210650	BATTERY ATTACHMENT	
3	8	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
4	2	500114	HEX BOLT GR5 3/8-16 X 7	
5	1	322008	PUMP ADAPTOR	
6	1	322020	INSERT	
10	1	322042	COUPLING	
7	1	322050	COUPLING	
11	4	500084	HEX BOLT GR5 3/8-16 X 1	
12	2	500086	HEX BOLT GR5 3/8-16 X 1 1/4	
13	1	610006	ENGINE	
14	1	468003	HYDRAULIC PUMP	
15	4	502045	LOCK WASHER 3/8	
16	2	210649	CRANK AIR FILTER	
17	1	470113	BATTERY	
18	4	500092	HEX BOLT GR5 3/8-16 X 2	
19	4	502004	FLAT WASHER 3/8 Z	
20	1	242093	ENGINE SUPPORT	
29	1	605009-1	VOLTAGE REGULATOR	
33	1	451189	12 M.JIC - 10 M.ORB	
34	1	451179	8 M JIC - 10 M ORB	
36	1	304026	SPRING	



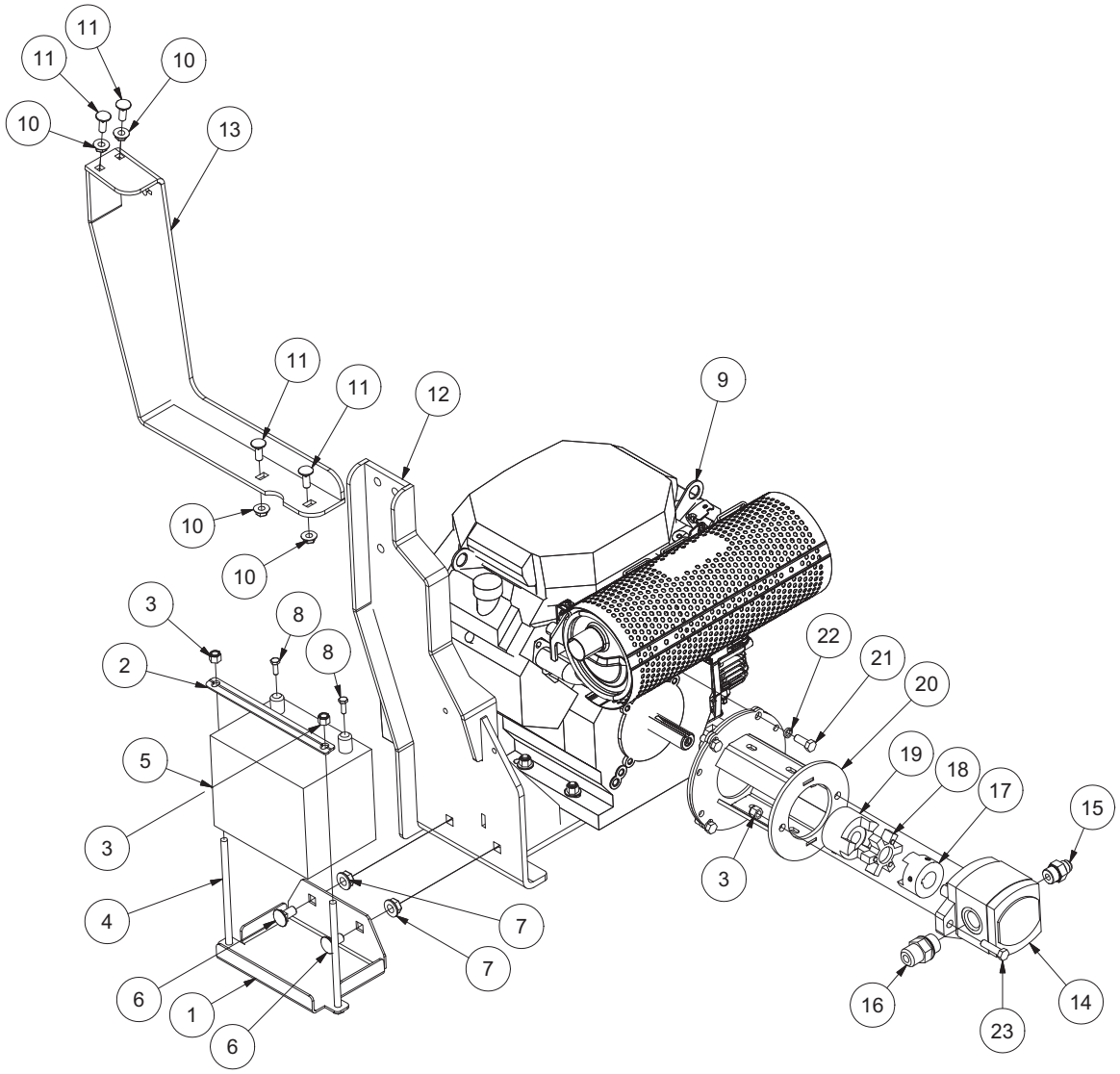
12 - POWER UNIT

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
2	1	210650	BATTERY ATTACHMENT	
3	12	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
4	2	500114	HEX BOLT GR5 3/8-16 X 7	
5	1	322008	PUMP ADAPTOR	
6	1	322020	INSERT	
10	1	322042	COUPLING	
7	1	322050	COUPLING	
11	8	500084	HEX BOLT GR5 3/8-16 X 1	
12	2	500086	HEX BOLT GR5 3/8-16 X 1 1/4	
13	1	610007	ENGINE	
14	1	468003	HYDRAULIC PUMP	
15	4	502045	LOCK WASHER 3/8	
16	2	210649	CRANK AIR FILTER	
17	1	470113	BATTERY	
18	4	500092	HEX BOLT GR5 3/8-16 X 2	
19	4	502004	FLAT WASHER 3/8 Z	
20	1	242093-1	ENGINE SUPPORT	
29	1	605009-1	VOLTAGE REGULATOR	
33	1	451189	12 M.JIC - 10 M.ORB	
34	1	451179	8 M JIC - 10 M ORB	
36	1	304026	SPRING	
37	1	244145-1	BRACE	
38	2	500175	HEX BOLT GR5 1/2-13 X 1 1/4	
39	1	244069	BATTERY SUPPORT	
40	1	081-TNK-AE	GAS TANK	
42	1	700175	CAP	

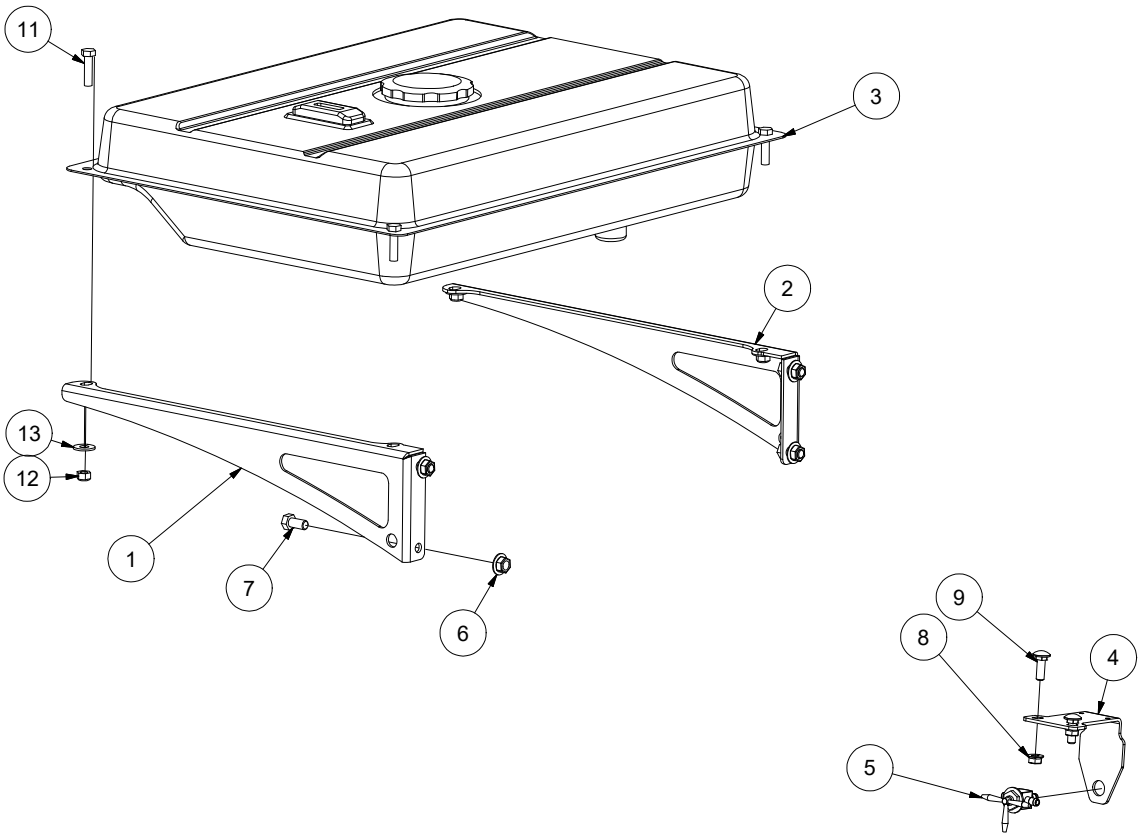


12 - POWER UNIT (20HP)

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	210652	BATTERY SUPPORT	
2	1	210650	BATTERY LOCK	
3	8	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
4	2	500114	HEX BOLT GR5 3/8-16 X 7	
5	1	470113	BATTERY	
6	2	500500	CARRIAGE BOLT GR5 1/2-13 X 1 Z	
7	2	501024	HEX FLANGE NUT GR2 1/2-13 Z	
8	2	500004	HEX BOLT GR5 1/4-20 X 3/4	
9	1	612000	20 HP MOTOR	
10	4	501022	HEX FLANGE NUT GR2 3/8-16 Z	
11	4	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
12	1	242161	SUPPORT DE MOTEUR 20 HP	
13	1	242162	SUPPORT DE MOTEUR 20 HP	
14	1	468003	HYDRAULIC PUMP	
15	1	451179	HYDRAULIC FITTING	
16	1	451190	12 M.JIC - 12 M.ORB	
17	1	322050	COUPLING	
18	1	322020	INSERT	
19	1	322042	COUPLING	
20	1	322008	PUMP ADAPTOR	
21	4	500084	HEX BOLT GR5 3/8-16 X 1	
22	4	502045	LOCK WASHER 3/8	
23	2	500088	HEX BOLT GR5 3/8-16 X 1 1/2	

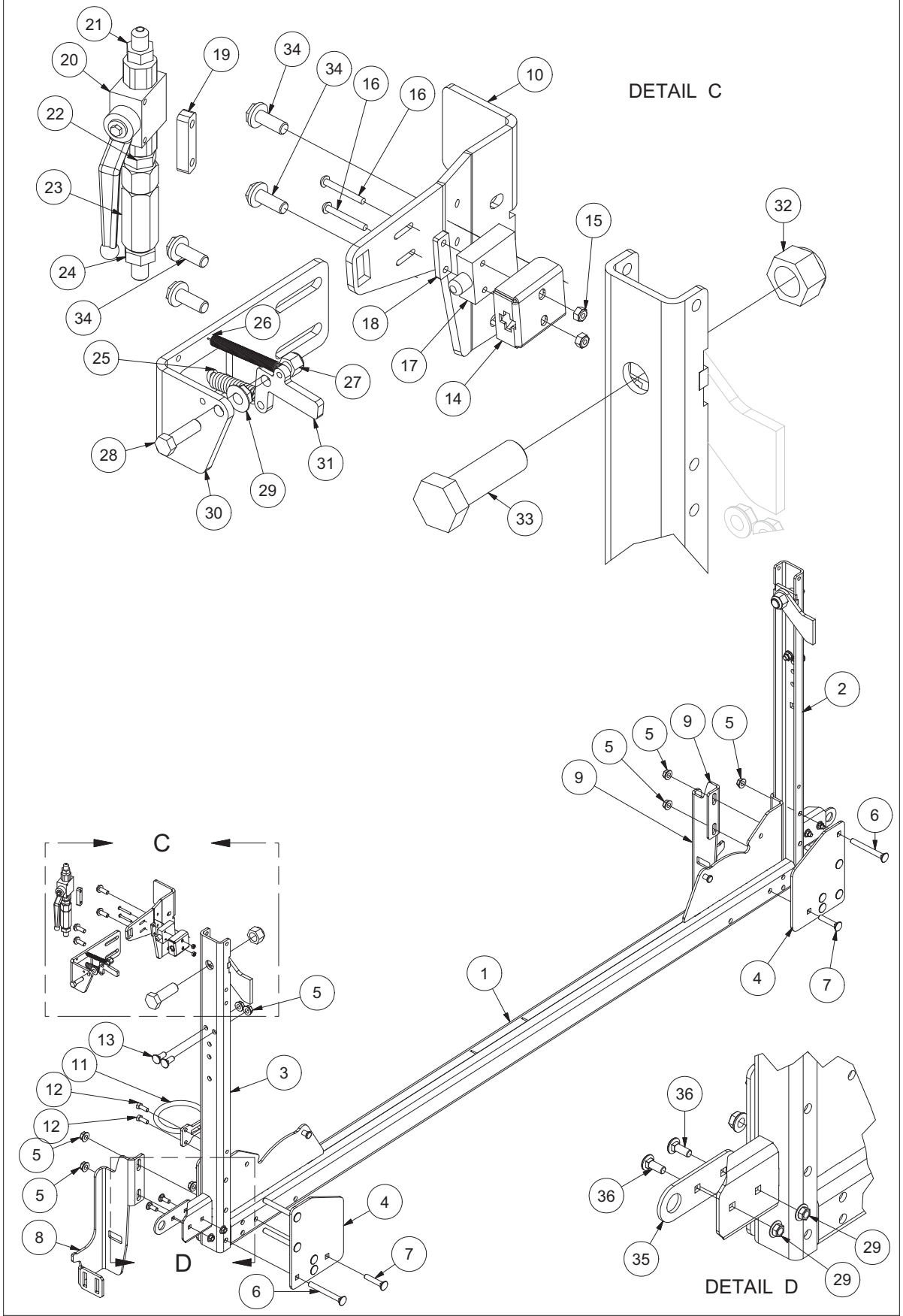


12.5 - 25L GAS TANK



PART LIST				
ITEM	QTY	PART #	DESCRIPTION	NOTE
1	1	210364	SUPPORT GAUCHE DE RÉSERVOIR	
2	1	210363	SUPPORT DROIT DE RÉSERVOIR	
3	1	470032	RÉSERVOIR	
4	1	210362	SUPPORT DE VALVE	
5	1	470027	VALVE ESSENCE	
6	4	501022	ÉCROU À EMBASE HEX GR2 3/8-16 Z	
7	4	500082	BOULON HEX GR5 3/8-16 X 3/4	
8	2	501021	ÉCROU À EMBASE HEX GR2 5/16-18 Z	
9	2	500403	BOULON À CARROSSERIE GR5 5/16-18 X 1 Z	
11	4	500046	BOULON HEX GR5 5/16-18 X 1 1/4	
12	4	501031	ÉCROU NYLON IND HEX GR5 5/16-18 Z	
13	4	502014	RONDELLE PLATE 5/16 Z	

13 - HOOP SUPPORT



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13 - HOOP SUPPORT

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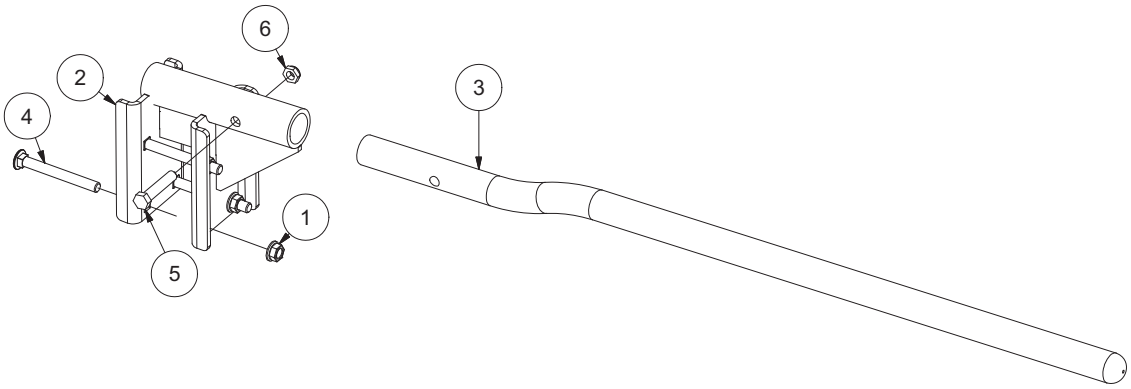
PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	***	WHIT THE FRAME	
2	1	242065	LEFT HOOP SUPPORT	
3	1	242067	RIGHT HOOP SUPPORT	
4	2	242068	FRONT PLATE ATTACHMENT	
5	16	501024	HEX FLANGE NUT GR2 1/2-13 Z	
6	6	500511	CARRIAGE BOLT GR5 1/2-13 X 4 1/2 Z	
7	6	500506	CARRIAGE BOLT GR5 1/2-13 X 2 1/2 Z	
8	1	242069	LEFT CYLINDER SUPPORT	
9	1	242070	RIGHT CYLINDER SUPPORT	
10	1	242071	GUARD ATTACHMENT	
11	1	210892	HOSE ATTACHMENT	
12	2	500084	HEX BOLT GR5 3/8-16 X 1	
13	4	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
14	1	210839	SWITCH GUARD	
15	2	501049	HEX NYLON LOCKNUT GR5 M10-24-STAINLESS	
16	2	507080	PHILLIPS ROUND HEAD MACHINE SCREW 10/24 X 1 1/2 Z	
17	1	315160	EMERGENCY STOPPER	
18	1	242073	SPACER	
19	1	242139	SPACER	
20	1	466998	HYDRAULIC VALVE	
21	1	450542	6 M.JIC - 6 M.NPT	
22	1	450007	8 M.NPT - 6 M.NPT	
23	1	465906	CHECK VALVE	
24	1	450543	HYDRAULIC FITTING	
25	1	304005	SPRING	
26	1	304022	SPRING	
27	1	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
28	1	500086	HEX BOLT GR5 3/8-16 X 1 1/4	
29	5	501022	HEX FLANGE NUT GR2 3/8-16 Z	
30	1	242137	TRIGGER SUPPORT	
31	1	210199	TRIGGER	
32	2	501037	HEX NYLON LOCKNUT GR5 1-8 Z	
33	2	500326	HEX BOLT GR5 1-8 X 3 Z	
34	4	500602	HEX FLANGE BOLT GR5 3/8-16 X 1 Z	
35	2	242160	GUARD SUPPORT	
36	4	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	

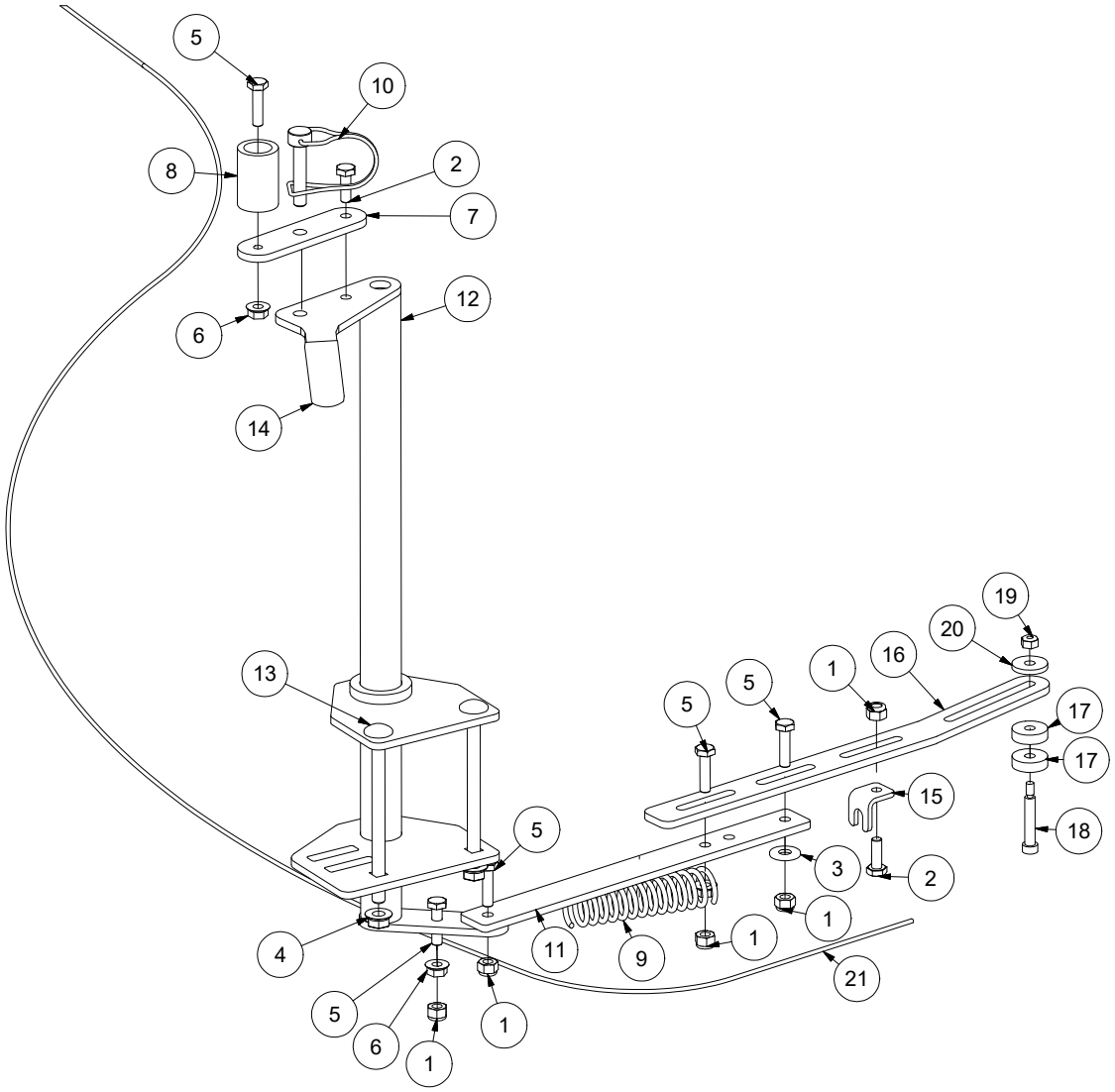
14 - SPEAR

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	4	501024	HEX FLANGE NUT GR2 1/2-13 Z	
2	1	242043	SPEAR SUPPORT	
3	1	210620-2	SPEAR	
4	4	500511	CARRIAGE BOLT GR5 1/2-13 X 4 1/2 Z	
5	1	500182	HEX BOLT GR5 1/2-13 X 2 1/2	
6	1	501054	HEX HALF NYLON LOCKNUT GR5 1/2-13 Z	



14 - THROTTLE CONTROL 13 HP

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	5	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
2	2	500004	HEX BOLT GR5 1/4-20 X 3/4	
3	1	502002	FLAT WASHER 1/4 Z	
4	2	501021	HEX FLANGE NUT GR2 5/16-18 Z	
5	5	500006	HEX BOLT GR5 1/4-20 X 1	
6	3	501020	HEX FLANGE NUT GR2 1/4-20 Z	
7	1	210624-2	ACTIVATION PLATE	
8	1	306031	STOPPER	
9	1	310015	SPRING	
10	1	320031	LOCK PIN	
11	1	210775-1	ADJUSTABLE PLATE	
12	1	242046-1	THROTTLE CONTROL	
13	2	500412	CARRIAGE BOLT GR5 5/16-18 X 4 1/2 Z	
14	1	325131	PLASTIC HANDLE	
15	1	244080	CABLE HANGER	
16	1	242047-1	ADJUSTABLE PLATE	
17	2	244081	SPACER	
18	1	500582	HEX SOCKET HEAD CAP SCREW 1/4 X 1 1/4	
19	1	501050	HEX NYLON LOCKNUT GR5 10-24 Z	
20	1	244083	SPACER	
21	1	325237	RPM CABLE	



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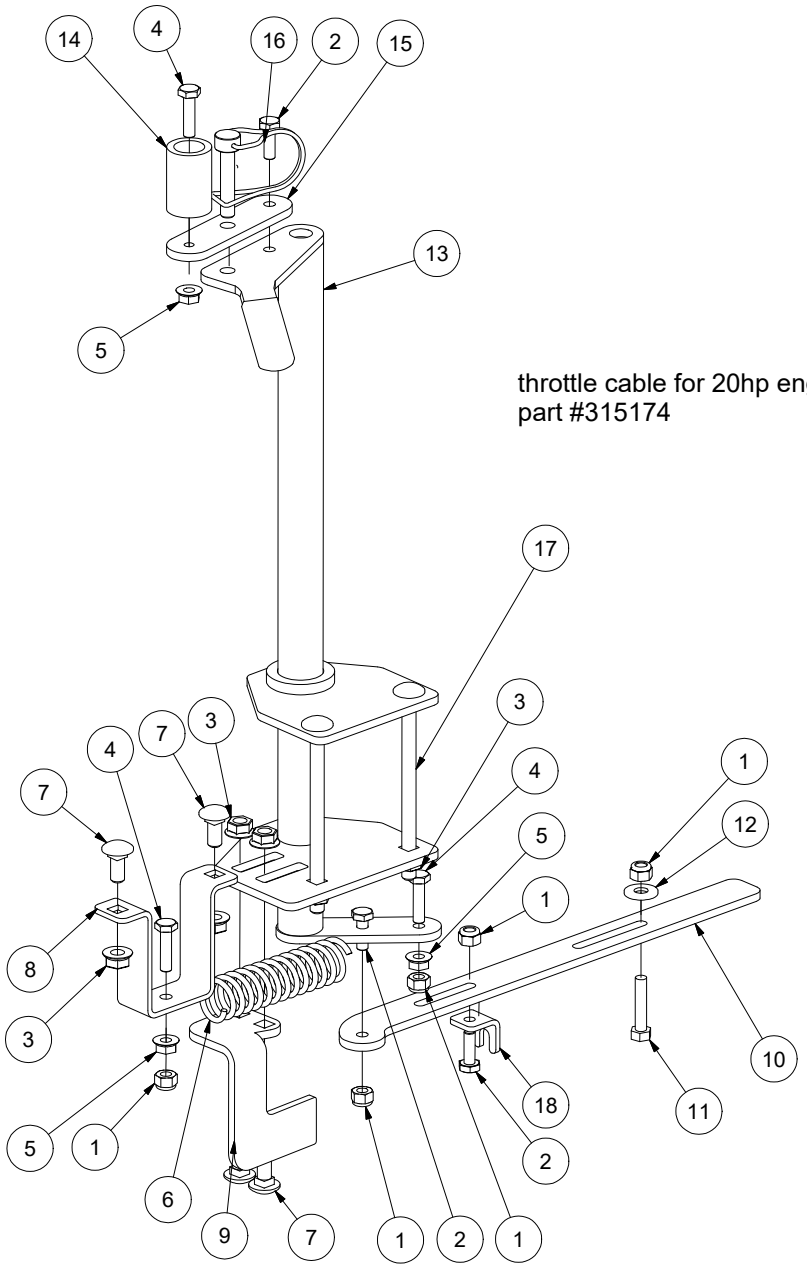
14 - THROTTLE CONTROL 20 HP

PART LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	6	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
2	3	500004	HEX BOLT GR5 1/4-20 X 3/4	
3	6	501021	HEX FLANGE NUT GR2 5/16-18 Z	
4	3	500006	HEX BOLT GR5 1/4-20 X 1	
5	3	501020	HEX FLANGE NUT GR2 1/4-20 Z	
6	1	310015	SPRING	
7	4	500401	CARRIAGE BOLT	
8	1	210987-1	SPRING SUPPORT	
9	1	210089-1	RPM STOPPER	
10	1	242159	ADJUSTMENT PLATE	
11	1	500008	HEX BOLT GR5 1/4-20 X 1 1/4	
12	1	502002	FLAT WASHER 1/4 Z	
13	1	242046-1	THROTTLE HANDLE	
14	1	306031	STOPPER	
15	1	210624-2	ACTIVATION PLATE	
16	1	320031	LOCK PIN	
17	2	500412	CARRIAGE BOLT GR5 5/16-18 X 4 1/2 Z	
18	1	244080	CABLE HANGER	



throttle cable for 20hp engine`:
part #315174

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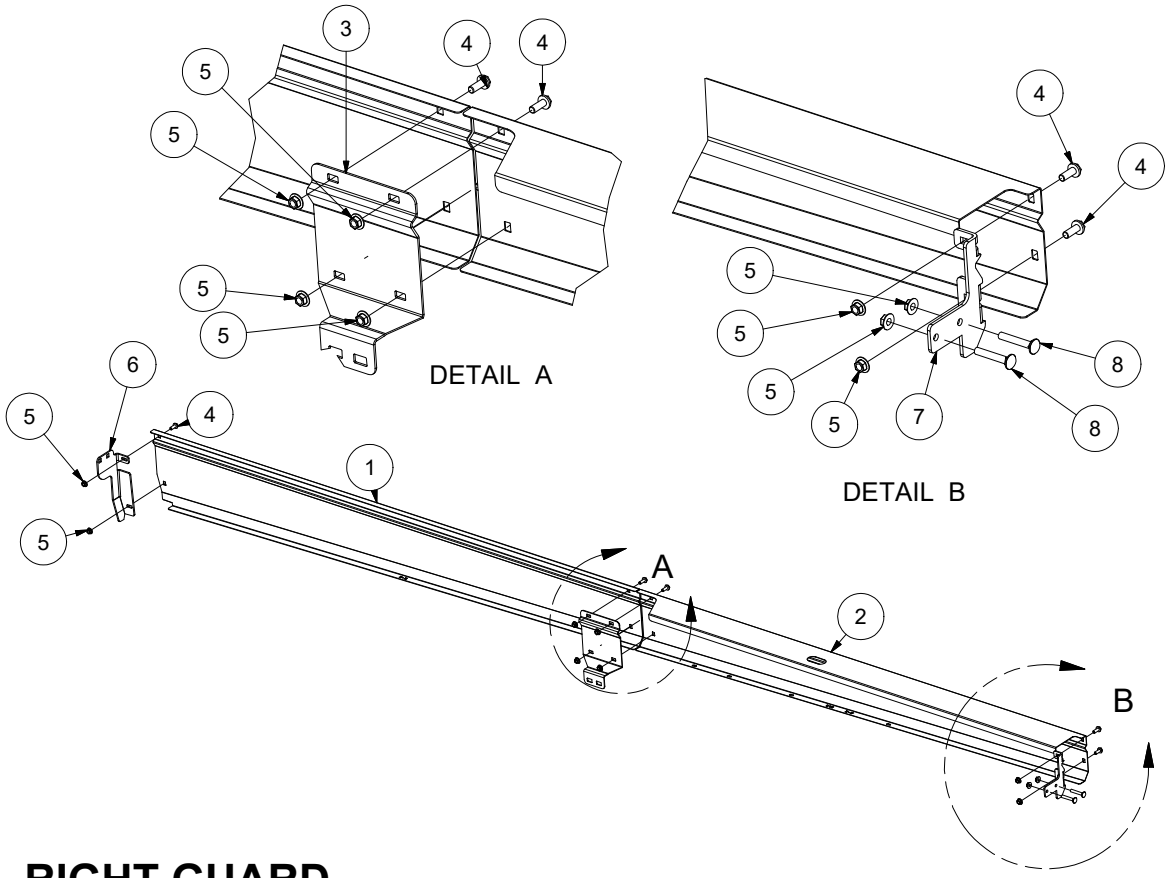
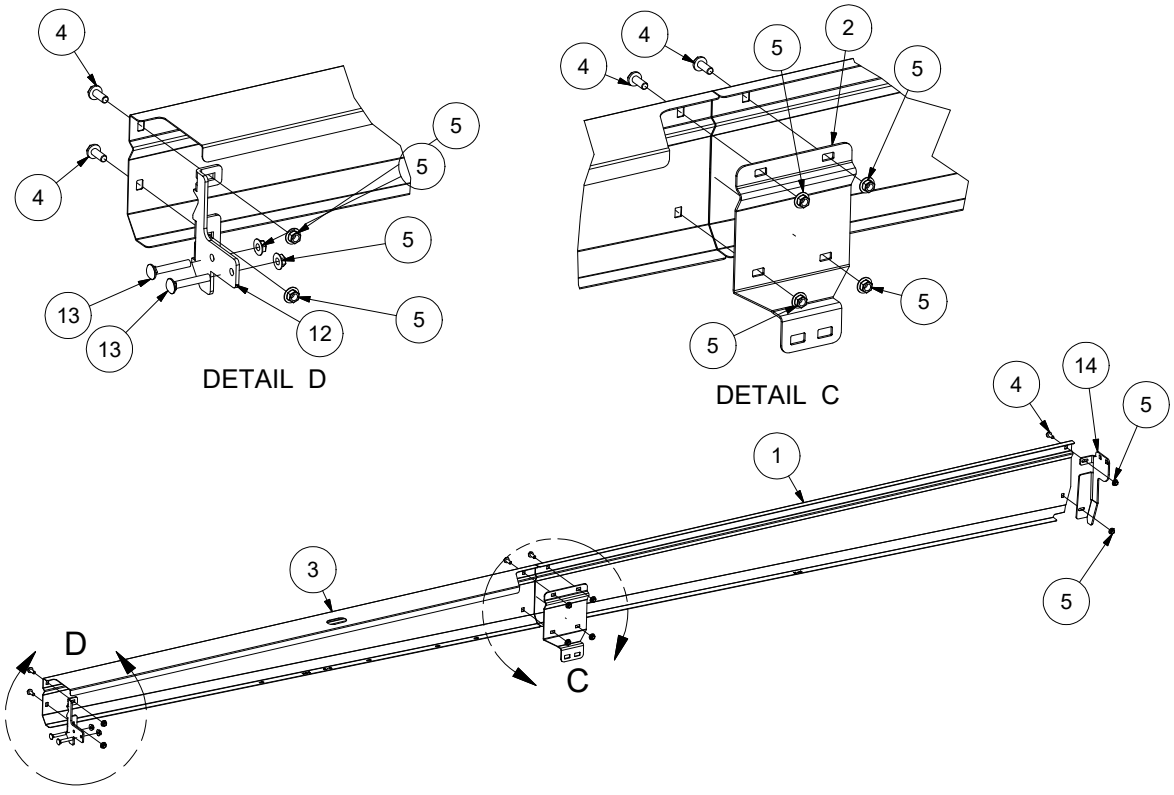
LEFT GUARD



RIGHT GUARD



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LEFT GUARD

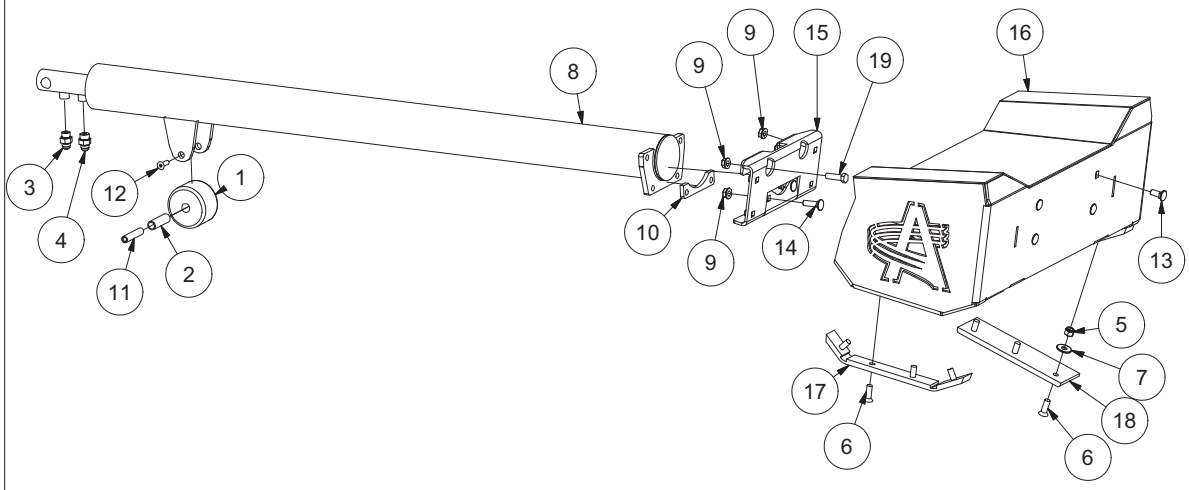
PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242061	LEFT REAR FENDER	
2	1	242062	RIGHT FRONT FENDER	
3	1	242060	FENDER UNION	
4	8	500602	HEX FLANGE BOLT GR5 3/8-16 X 1 Z	
5	10	501022	HEX FLANGE NUT GR2 3/8-16 Z	
6	1	242163	LEFT REAR FENDER SUPPORT	
7	1	242164	LEFT FRONT FENDER SUPPORT	
8	2	500447	CARRIAGE BOLT GR5 3/8-16 X 2 1/4 Z	

RIGHT GUARD

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242063	RIGHT REAR FENDER	
2	1	242060	FENDER UNION	
3	1	242064	RIGHT FRONT FENDER	
4	8	500602	HEX FLANGE BOLT GR5 3/8-16 X 1 Z	
5	10	501022	HEX FLANGE NUT GR2 3/8-16 Z	
12	1	242166	RIGHT FRONT FENDER SUPPORT	
13	2	500447	CARRIAGE BOLT GR5 3/8-16 X 2 1/4 Z	
14	1	242165	RIGHT REAR FENDER SUPPORT	

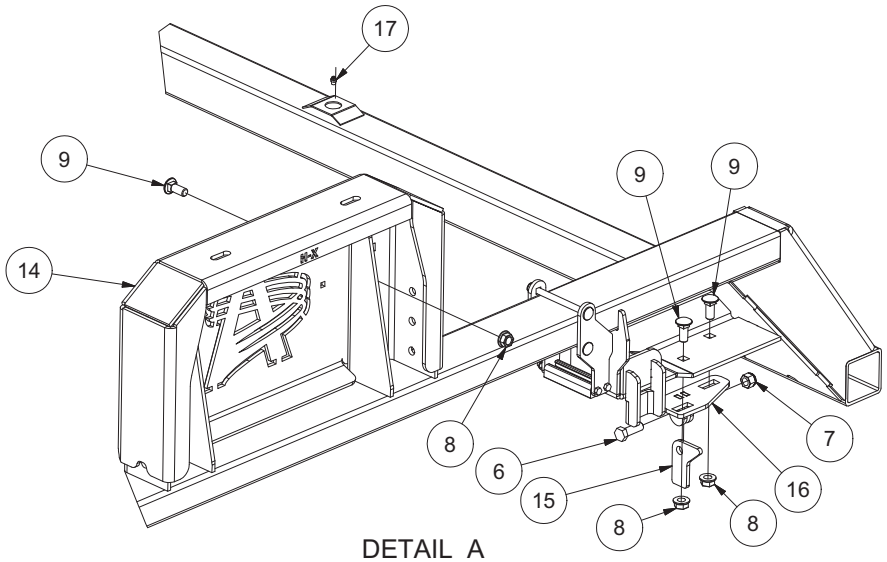
17 - PUSHER CYLINDER

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	308007	CYLINDER WHEEL	
2	1	308013	SPACER BUSHING	
3	1	451178	HYDRAULIC FITTING	
4	1	451179	HYDRAULIC FITTING	
5	14	501034	NYLON NUT	
6	14	507054	FLAT SOCKET CAP SCREW	
7	14	502006	FLAT WASHER	
8	1	467317	X-TRACTOR CYLINDER	
9	8	501024	FLANGE NUT	
10	1	210346	SPACER PLATE	
11	1	308012	WHEEL ATTACHMENT	
12	2	507053-1	FLAT SOCKET CAP SCREW	
13	4	500501	CARRIAGE BOLT	
14	2	500503	CARRIAGE BOLT	
15	1	210345	PUSHER SUPPORT PLATE	
16	1	242081	PUSHER PLATE	
17	2	492029	OUTSIDE SKATE	
18	2	492028	INSIDE SKATE	
19	2	500179	BOLT	

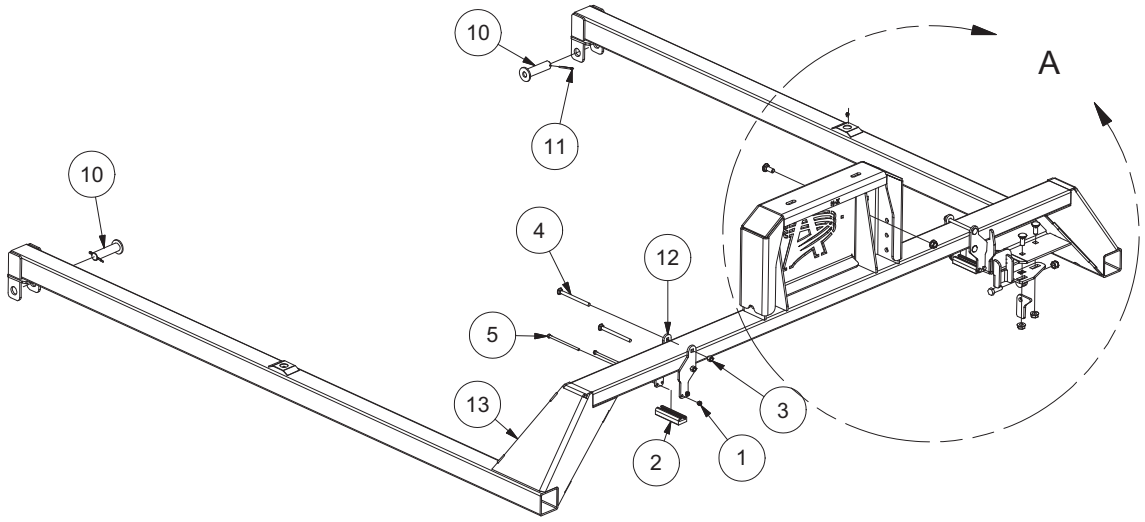


18 - PUSHER

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	4	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
2	2	210671	TEFLON	
3	4	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
4	4	500456	CARRIAGE BOLT GR5 3/8-16 X 5 Z	
5	4	500026	HEX BOLT GR5 1/4-20 X 5	
6	1	500177	HEX BOLT GR5 1/2-13 X 1 1/2	
7	1	501034	HEX NYLON LOCKNUT GR5 1/2-13 Z	
8	6	501024	HEX FLANGE NUT GR2 1/2-13 Z	
9	6	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
10	2	210183	CYLINDER LOCK PIN	
11	2	320043	COTTER PIN 5/32 X 1 1/2	
12	4	242132	TEFLON SUPPORT	
13	1	242133-1	MOVING PUSHER	
14	1	242140	PUSHER	
15	1	210182	WEDGE	
16	1	242045-1	WEDGE SUPPORT	
17	1	322299	GREASE FITTING	

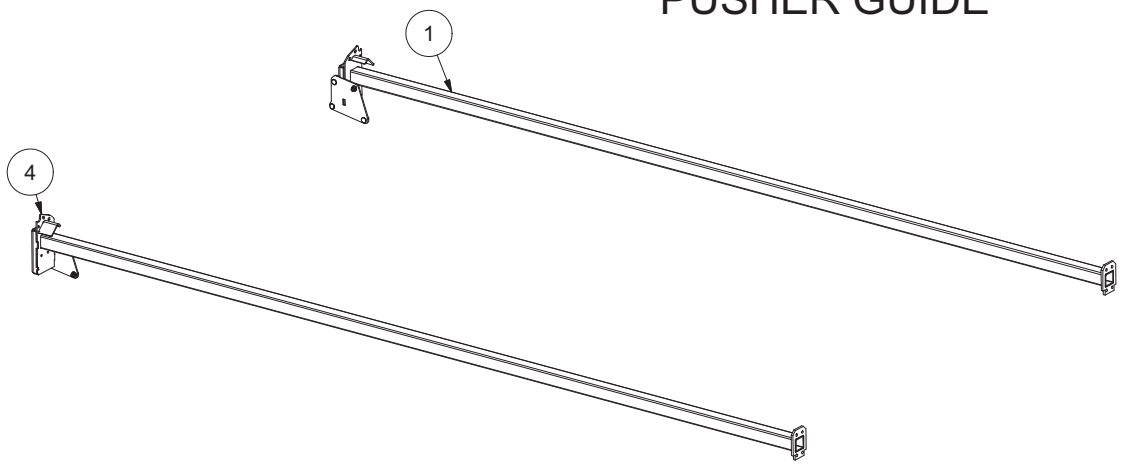


DETAIL A



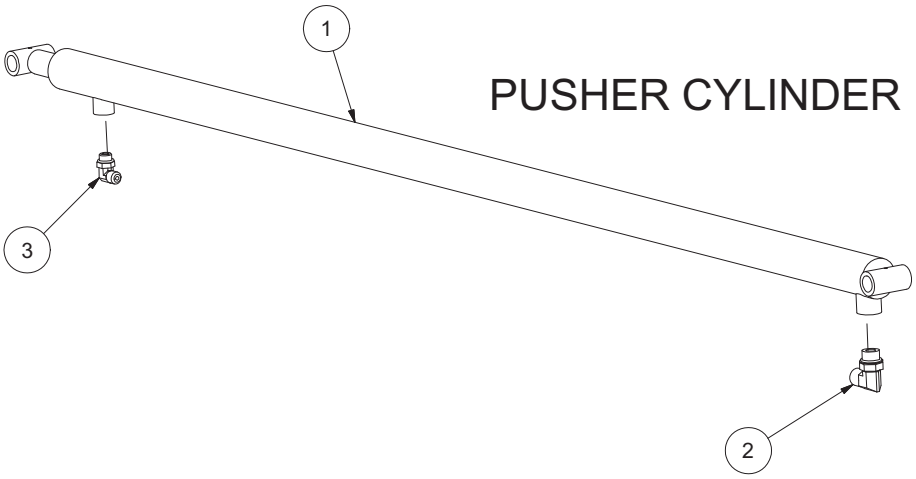
PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242075-3	RIGHT PUSHER GUIDE	
4	1	242076-3	LEFT PUSHER GUIDE	

PUSHER GUIDE

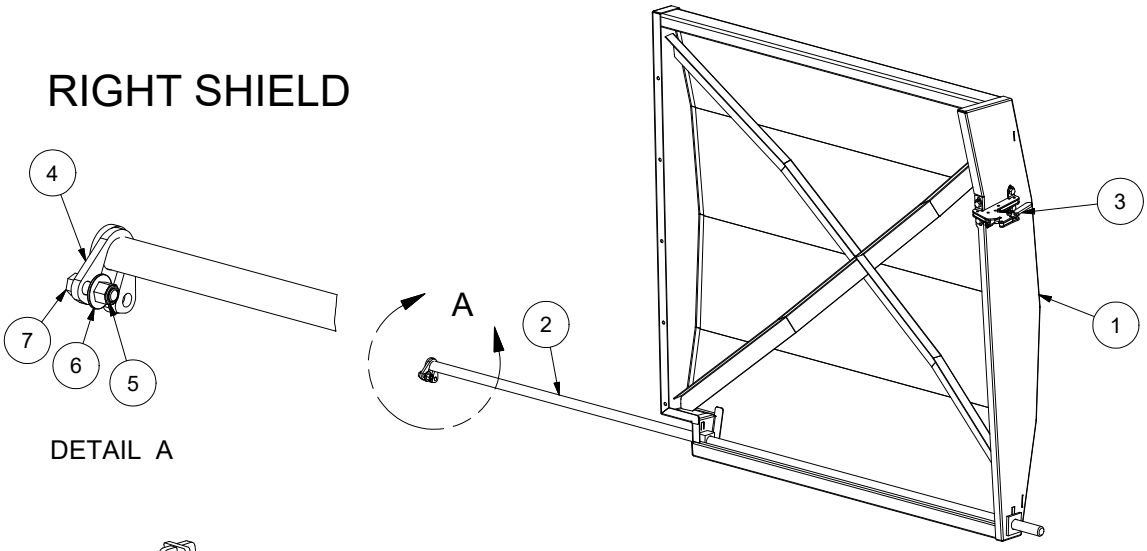


PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	467284	HYDRAULIC CYLINDER	
2	1	451276	12 M.JIC - 12 M.ORB 90°	
3	1	451265	8 M.JIC - 8 M.ORB 90°	

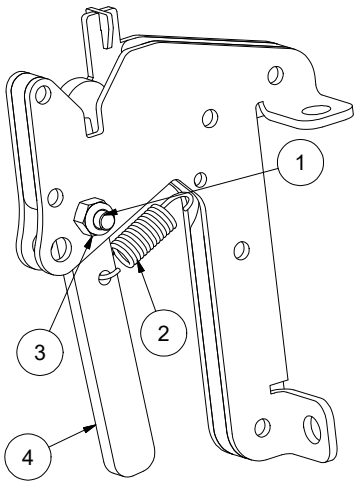
PUSHER CYLINDER



RIGHT SHIELD

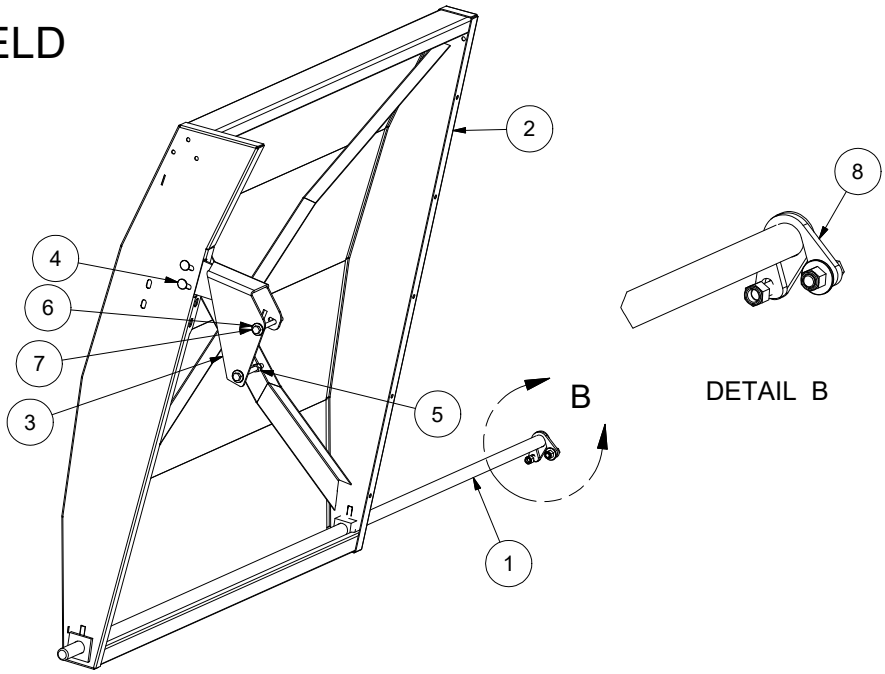


DETAIL A



ATTACHMENT

LEFT SHIELD



DETAIL B

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RIGHT SHIELD

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242057-1	RIGHT SHIELD	
2	1	210683-2	SHIELD SUPPORT	
3	1	***	ATTACHMENT	
4	1	242167	GUARD LOCK	
5	1	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
6	1	502004	FLAT WASHER 3/8 Z	
7	1	500086	HEX BOLT GR5 3/8-16 X 1 1/4	

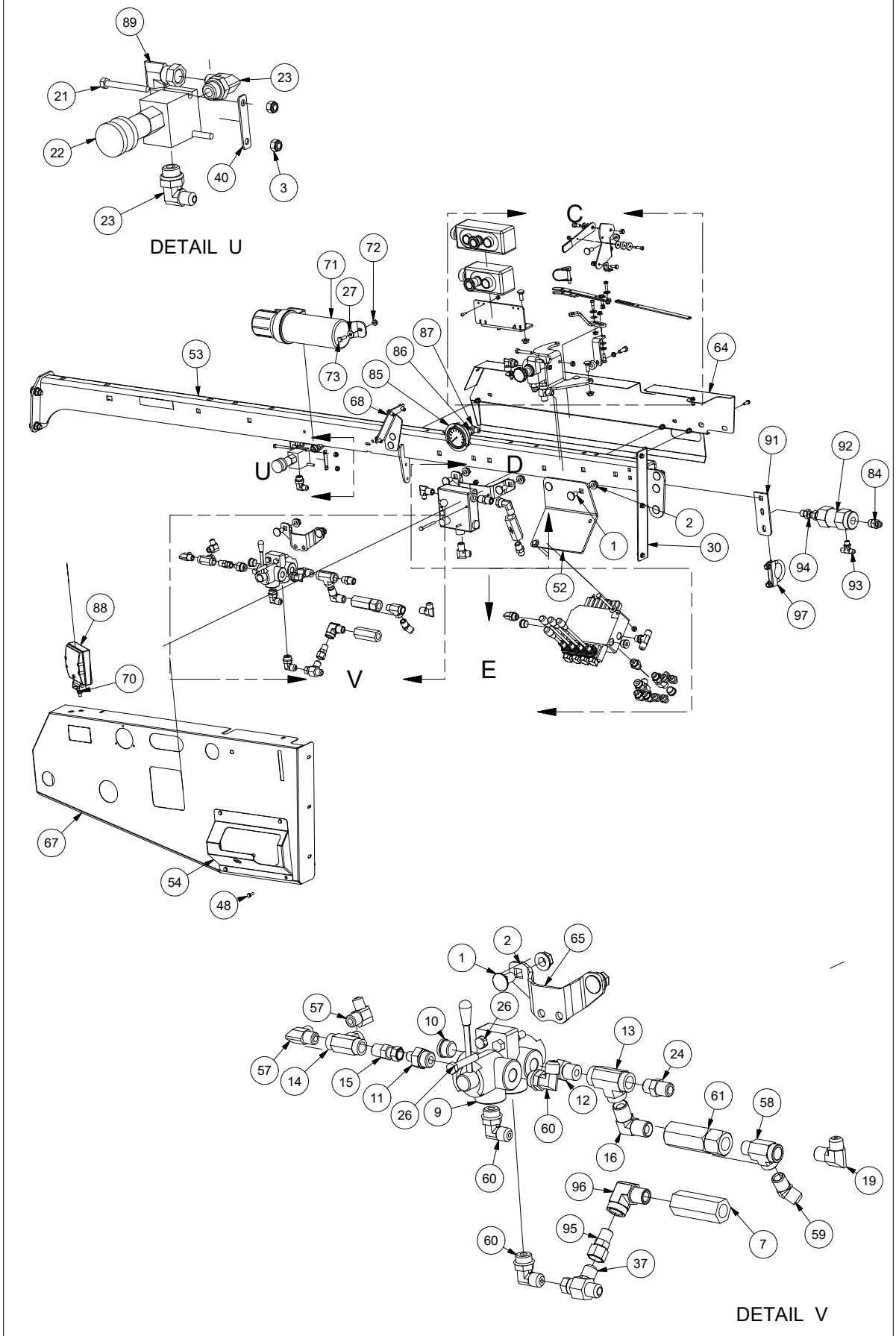
ATTACHMENT

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	500006	HEX BOLT GR5 1/4-20 X 1	
2	1	304021	SPRING	
3	1	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
4	1	210755-1	SHIELD HANDLE	

LEFT SHIELD

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	210304	SHIELD SUPPORT	
2	1	242058-1	LEFT SHIELD	
3	1	242059	SHIELD SIDE SUPPORT	
4	2	500440	CARRIAGE BOLT GR5 3/8-16 X 3/4 Z	
5	4	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
6	3	502004	FLAT WASHER 3/8 Z	
7	2	500104	HEX BOLT GR5 3/8-16 X 4	
8	1	242167	GUARD LOCK	

21 - VALVE AND SUPPORT



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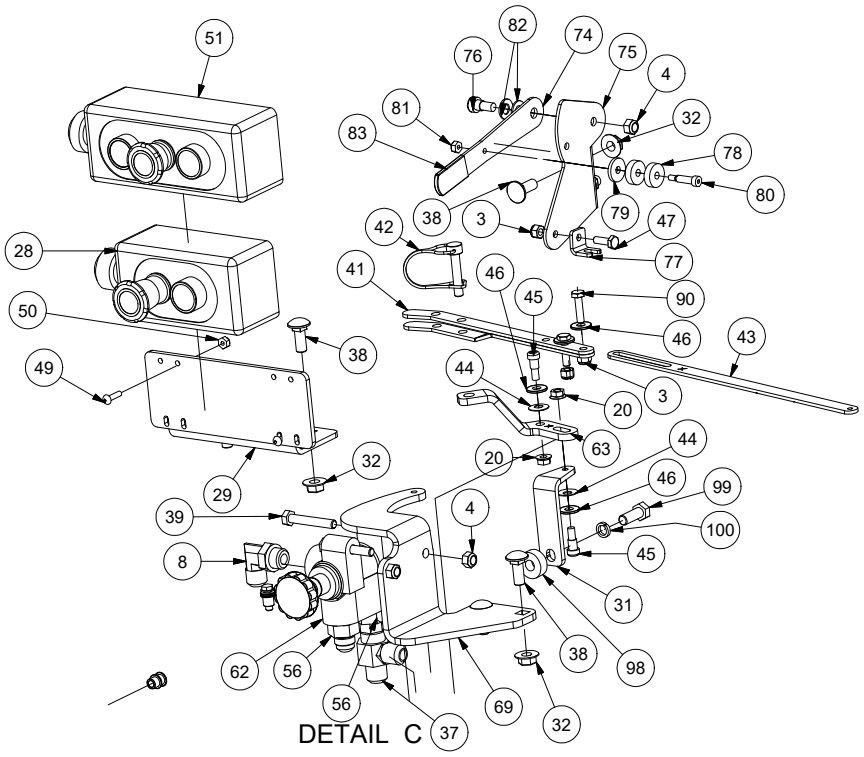
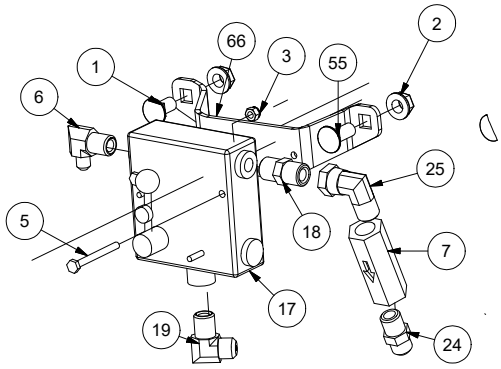
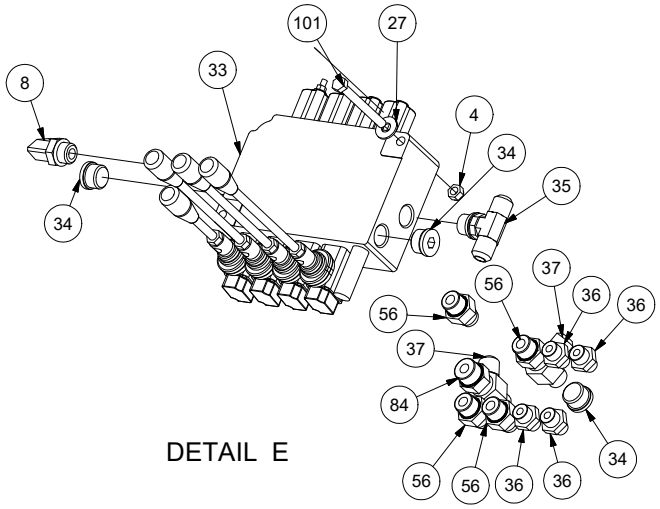
21 - VALVE AND SUPPORT



DETAIL C



DETAIL D



DETAIL E

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21 - VALVE AND SUPPORT

ANDERSON

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	5	500500	CARRIAGE BOLT GR5 1/2-13 X 1 Z	
2	12	501024	HEX FLANGE NUT GR2 1/2-13 Z	
3	7	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
4	5	501031	HEX NYLON LOCKNUT GR5 5/16-18 Z	
5	2	500017	HEX BOLT GR5 1/4-20 X 2 1/2	
6	1	450712	HYDRAULIC FITTING	
7	2	465879	CHECK VALVE	
8	2	451265	8 M.JIC - 8 M.ORB 90°	
9	1	465065-1	HYDRAULIC VALVE	
10	1	451356	PLUG ORB 10	
11	1	451173	6 M.JIC - 10 M.ORB	
12	1	451097	10 M.ORB - 8 M.NPT	
13	1	450243	8 F.NPT	
14	1	450242	6 F.NPT	
15	1	450994	6 F.JIC - 6 M.NPT	
16	1	450196	HYDRAULIC FITTING	
17	1	465983	VALVE	
18	1	450008	HYDRAULIC FITTING	
19	2	450716	M JIC 8 - M NPT 8 90 DEG	
20	4	501020	HEX FLANGE NUT GR2 1/4-20 Z	
21	2	500016	HEX BOLT GR5 1/4-20 X 2 1/4	
22	1	465877	HYDRAULIC VALVE	
23	2	451261	6 M.JIC - 8 M.ORB	
24	2	450548	8 M JIC - 8 M NPT	
25	1	450381	8 F.NPSM - 8 M.NPT 90°	
26	2	500092	HEX BOLT GR5 3/8-16 X 2	
27	4	502014	FLAT WASHER 5/16 Z	
28	1	315159-1	CONTROL	
29	1	210348	EMERGENCY STOP SUPPORT	
30	1	242134	FRONT GUARD SUPPORT	
31	1	210305	ACTIVATION HOOK	
32	10	501022	HEX FLANGE NUT GR2 3/8-16 Z	
33	1	465978	HYDRAULIC VALVE	
34	3	451355	PLUG 8 M. ORB	
35	1	451313	8 M.JIC - 8 M.ORB	
36	4	451172	6 M JIC - 8 M ORB	
37	4	450973	HYDRAULIC FITTING	
38	6	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
39	2	500052	HEX BOLT GR5 5/16-18 X 2	
40	1	242039	HYD. BREAK VALVE SUPPORT	
41	1	210359	TRANSFERT ROD 2	
42	1	320031	LOCK PIN	
43	1	210358	TRANSFERT ROD 1	
44	2	502035	SPRING	
45	2	500572	HEX SOCKET HEAD CAP SCREW 5/16 X 3/8	
46	4	502002	FLAT WASHER 1/4 Z	
47	1	500004	HEX BOLT GR5 1/4-20 X 3/4	
48	15	500599	HEX FLANGE BOLT GR5 1/4-20 X 3/4 Z	
49	5	507042	BUTTON HEAD SCREW	
50	5	501050	HEX NYLON LOCKNUT GR5 #10-24	
51	1	315155-4	CONTROL	
52	1	242042-1	VALVE SUPPORT HYBRID X (VDM6 4 SECTIONS)	
53	1	242040	RIGHT HOOP SUPPORT REINFORCMENT	
54	1	242041-1	VALVE GUARD HYBRID X (VDM6 4 SECTIONS)	
55	7	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
56	6	451178	8 M.JIC - 8 M.ORB	
57	2	450711	HYDRAULIC FITTING	
58	1	450273	8 F NPT - 8 M NPT T	
59	1	450673	8 M.JIC - 8 M.NPT 45°	
60	3	451266	8 M.JIC - 10 M.ORB 90°	
61	1	465879	CHECK VALVE	
62	1	465890	VALVE	
63	1	210807-1	PIVOT	
64	1	242135-1	BACK GUARD	
65	1	210353	VALVE SUPPORT	
66	1	242037	VALVE SUPPORT	
67	1	242038-1	CONTROL PANEL	
68	1	242141	REAR GUARD SUPPORT	
69	1	244094	VALVE SUPPORT	
70	1	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
71	1	325120	MANUAL CASE	
72	2	501021	HEX FLANGE NUT GR2 5/16-18 Z	
73	2	500044	HEX BOLT GR5 5/16-18 X 1	
74	1	244100	RPM LEVER	
75	1	244101	RPM LEVER SUPPORT	
76	1	500583	HEX SOCKET HEAD CAP SCREW 3/8 X 1/4	
77	1	244080	CABLE HANGER	
78	2	244081	SPACER	
79	1	244083	SPACER	
80	1	500581	HEX SOCKET HEAD CAP SCREW 1/4 X 3/4	
81	1	501050	HEX NYLON LOCKNUT GR5 10-24 Z	
82	2	502094	BELLEVILLE SPRING DISK	
83	1	325131	PLASTIC HANDLE	
84	3	451179	8 M JIC - 10 M ORB	
85	1	470006	PRESSURE GAUGE	
86	1	450102	4 F.NPT - 4 F.NPT	
87	1	450710	6 M.JIC - 4 M.NPT 90°	
88	1	319798	WORK SPOTLIGHT	
89	1	450953	HYDRAULIC FITTING	
90	2	500006	HEX BOLT GR5 1/4-20 X 1	
91	1	244226	SUPPORT	
92	1	465917	PILOT OPERATED CHECK VALVE	
93	1	451312	6 M.JIC - 6 M.ORB	
94	1	450588	8 F.JIC - 8 M.JIC	
95	1	450996	8 F.JIC - 8 M.NPT	
96	1	450149	8 F.NPT - 8 M.NPT 90°	
97	1	507125	U BOLT 3/8" X 1 3/4"	
98	1	210377	SHIM	
99	1	500084	HEX BOLT GR5 3/8-16 X 1	
100	1	502045	LOCK WASHER 3/8	
101	2	500058	HEX BOLT GR5 5/16-18 X 3	

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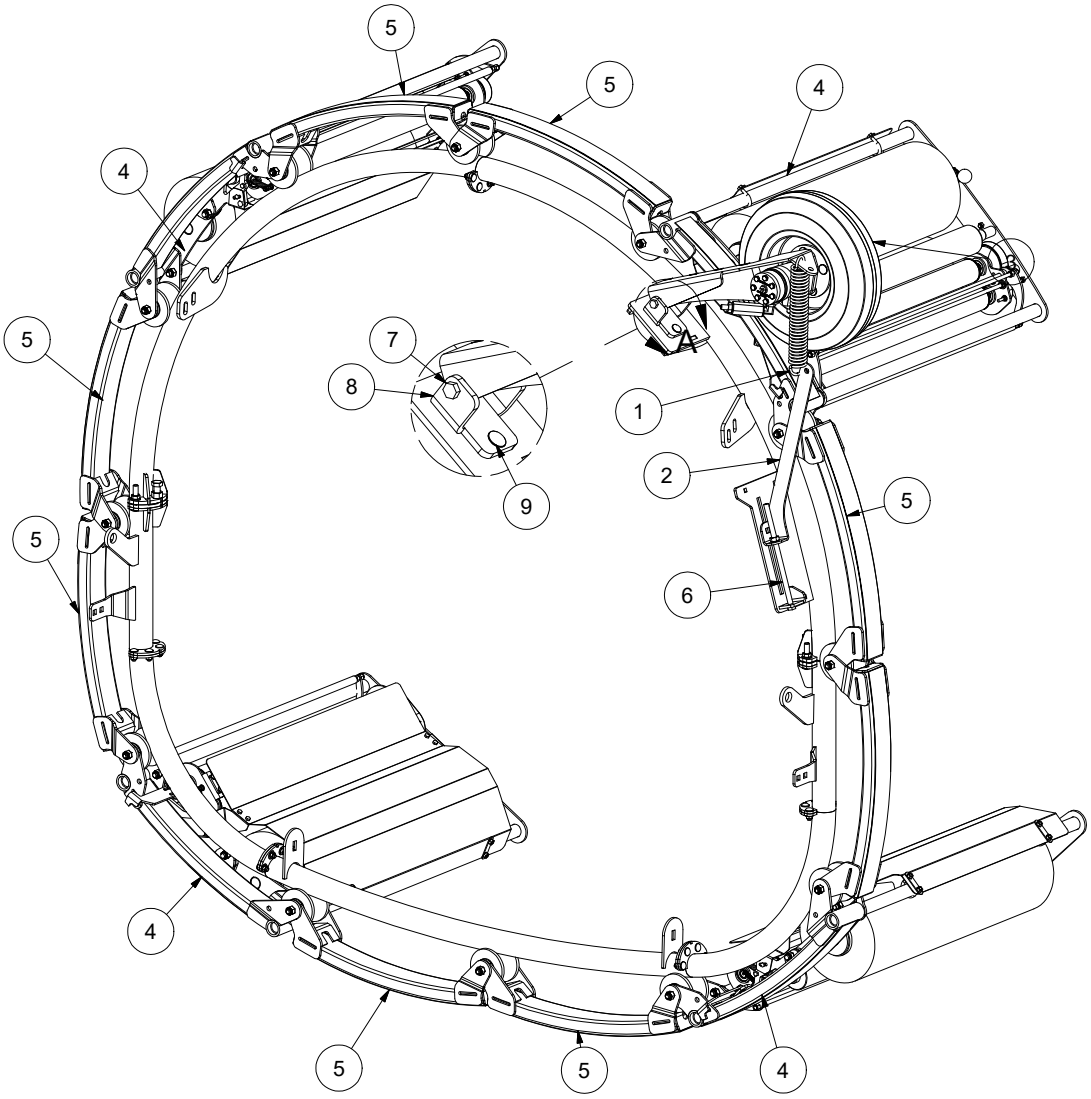
22 - HOOP

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	304013	SPRING	
2	1	242054	WHEEL TENSIONER	
3	1	***	HOOP WHEEL	
4	4	***	STRETCHER HOOP SECTION	
5	8	***	HOOP SECTION	
6	1	242055	WHEEL ROD ADJUSTMENT	
7	1	500193	HEX BOLT GR5 1/2-13 X 5	
8	1	224526	WHEEL SUPPORT ATTACHMENT	
9	2	500502	CARRIAGE BOLT GR5 1/2-13 X 1 1/2 Z	



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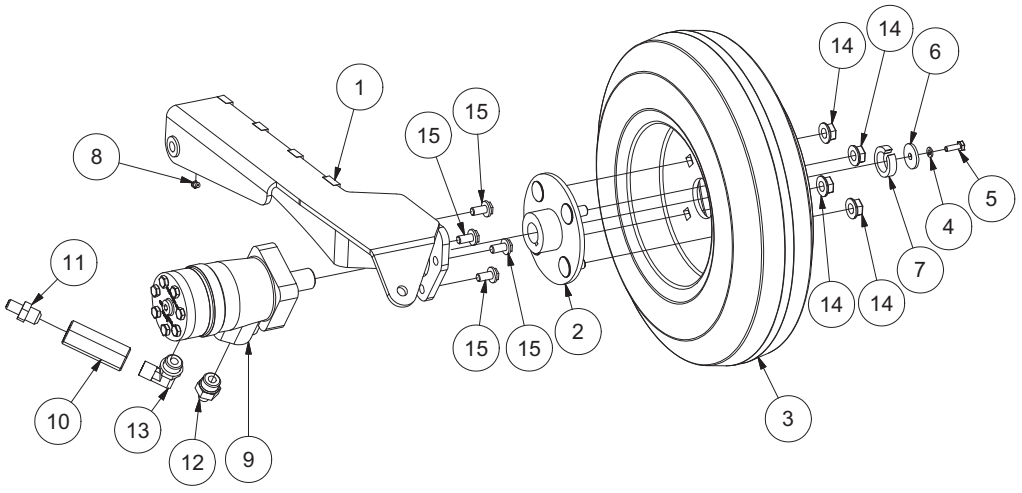
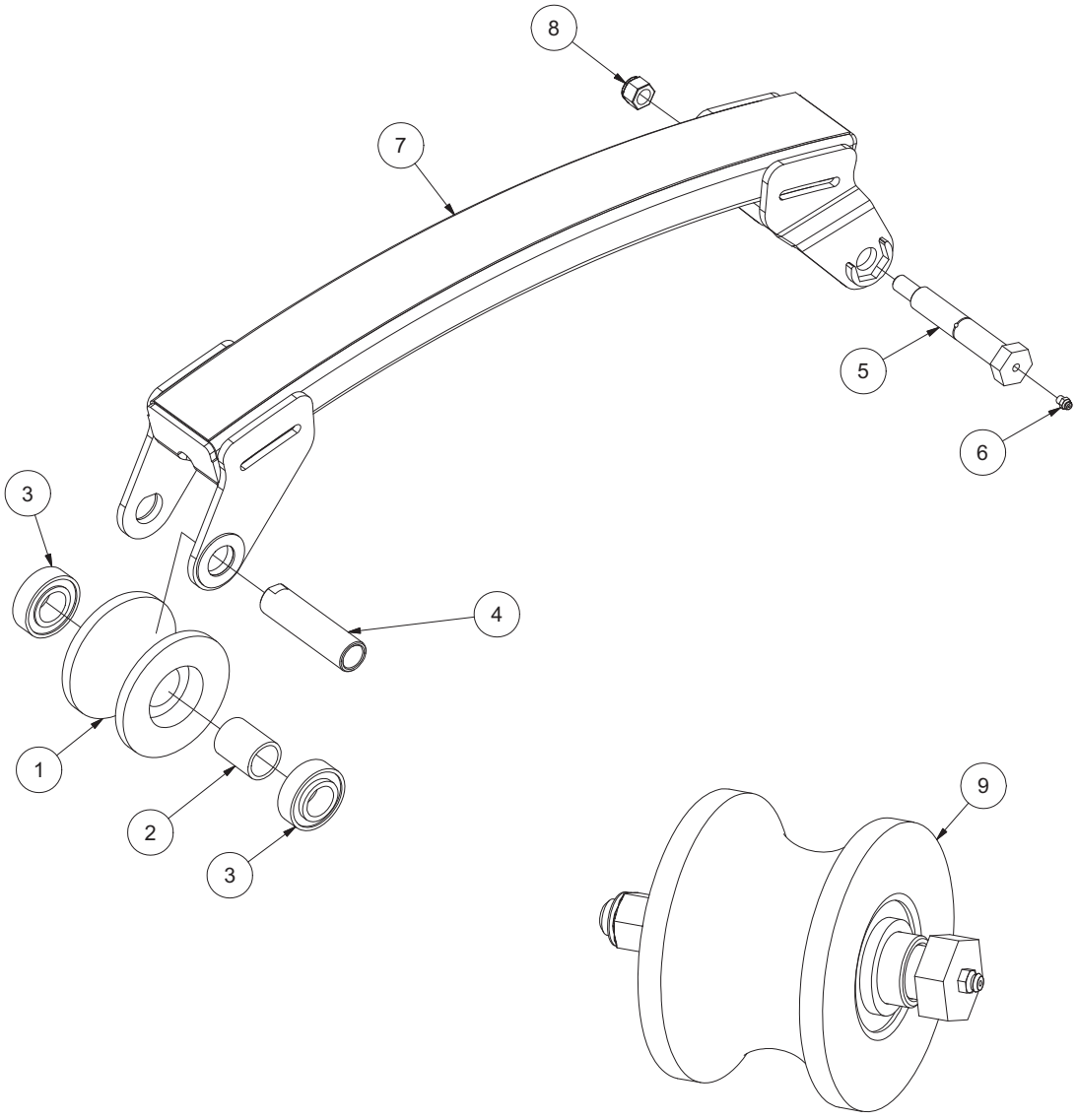
22 - HOOP

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242158	HOOP WHEEL SUPPORT	
2	1	210628	WHEEL HUB	
3	1	481505	TIRE ASSEMBLY	
4	1	502064	LOCK WASHER 1/4	
5	1	500004-2	HEX BOLT GR8 1/4-20 X 3/4	
6	1	210629	WASHER	
7	1	210630	SPACER	
8	1	322299	GREASE FITTING	
9	1	469158	HYDRAULIC MOTOR	
10	1	465916	HYDRAULIC FITTING	
11	1	450543	HYDRAULIC FITTING	
12	1	451173	6 M.JIC - 10 M.ORB	
13	1	450164	10 M.ORB - 8 M.NPT 90°	
14	4	501024	HEX FLANGE NUT GR2 1/2-13 Z	
15	4	500600	HEX FLANGE BOLT GR5 3/8-16 X 3/4 Z	

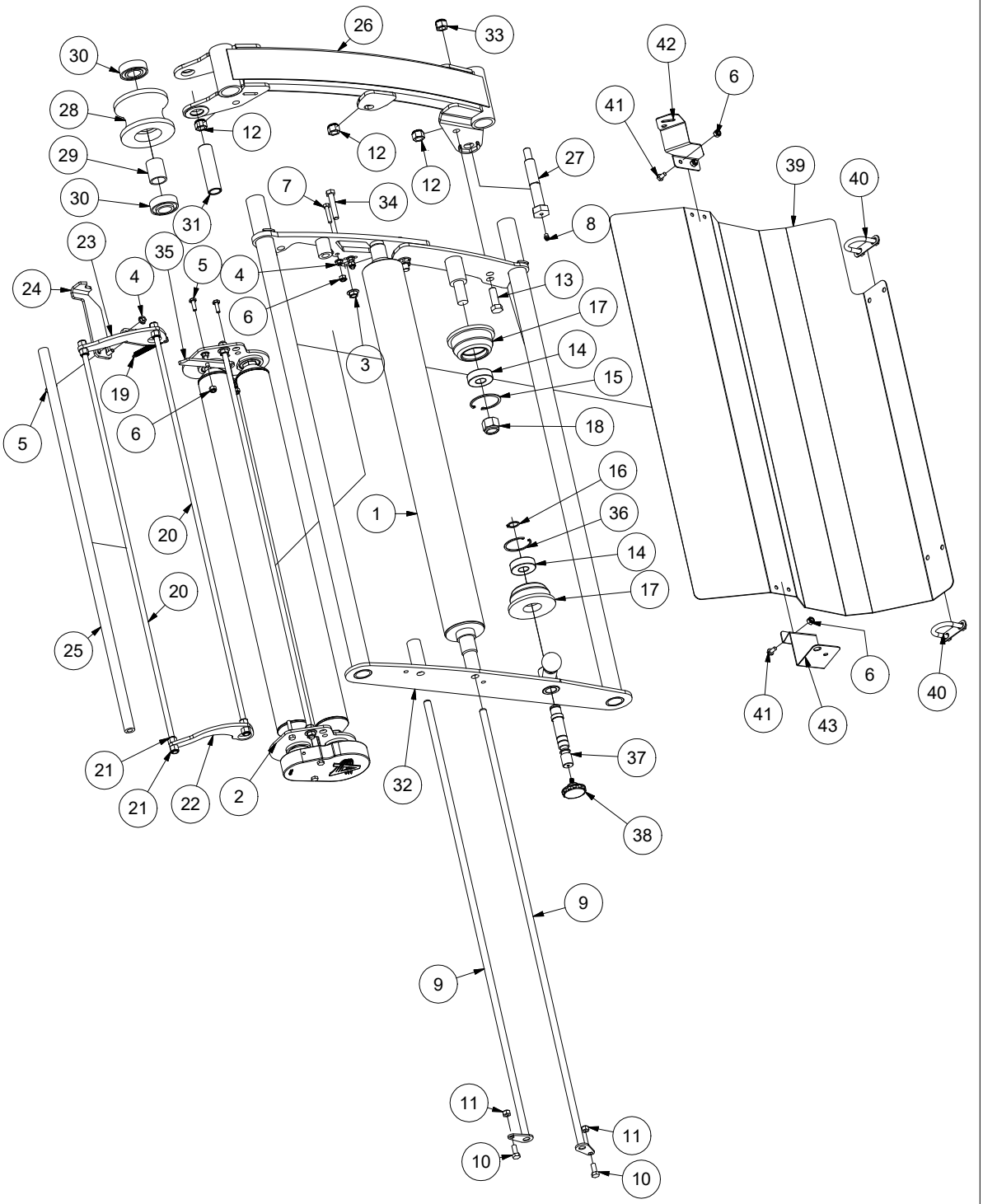


23 - HOOP SECTION

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	492002	CASTER	
2	1	492003	SPACER	
3	2	303989-1	BEARING	
4	1	492011	SPACER	
5	1	492012	BOLT	
6	1	322299	GREASE FITTING	
7	1	242121	STRETCHER SECTION FRAME	
8	1	501034-1	NYLON NUT	
9	1	322107	COMPLETE CASTER	



24 - STRETCHER HOOP SECTION



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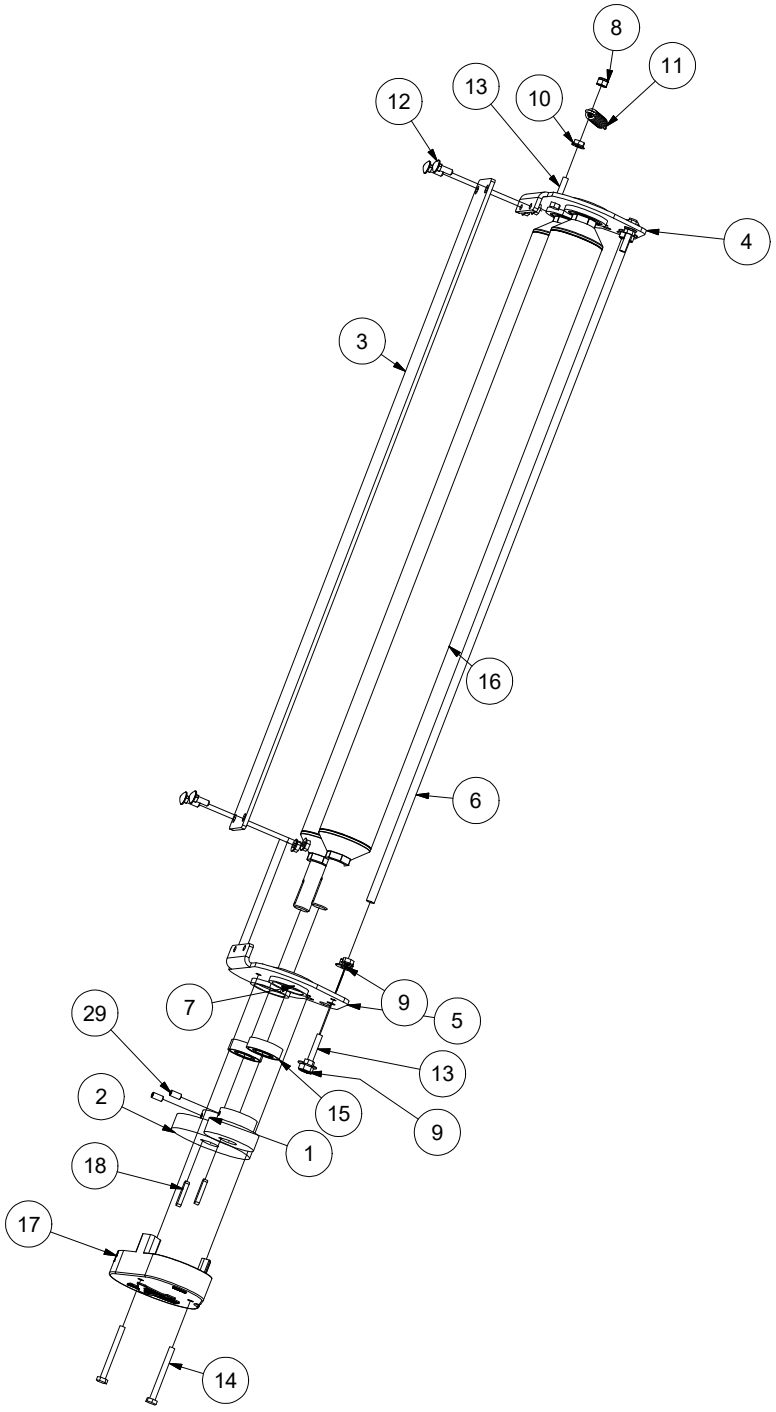
24 - STRETCHER HOOP SECTION

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	279005	BLACK ROLLER ON STRETCHER	
2	1	279004	STRETCHER	
3	5	501022	HEX FLANGE NUT GR2 3/8-16 Z	
4	13	501020	HEX FLANGE NUT GR2 1/4-20 Z	
5	4	500004	HEX BOLT GR5 1/4-20 X 3/4	
6	9	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
7	5	500008	HEX BOLT GR5 1/4-20 X 1 1/4	
8	1	322299	GREASE FITTING	
9	2	210585	RETAINING ROD	
10	2	500042	HEX BOLT GR5 5/16-18 X 3/4	
11	2	501031	HEX NYLON LOCKNUT GR5 5/16-18 Z	
12	3	501034	HEX NYLON LOCKNUT GR5 1/2-13 Z	
13	3	500177	HEX BOLT GR5 1/2-13 X 1 1/2	
14	2	303012	BEARING 6204RS-750	
15	1	320056	RETAINNING RING INT. 2	
16	1	320113	RETAINNING RING EXT. 3/4	
17	2	224082	PLASTIC ROLL SUPPORT	
18	1	501036	HEX NYLON LOCKNUT GR5 3/4-10 Z	
19	1	304022	SPRING	
20	2	306034	FIXATION ROD	
21	8	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	
22	1	242085	OUSIDE HALF MOON	
23	1	242148	INSIDE HALF MOON SUPPORT	
24	1	242086	TRIPPING PLATE	
25	1	2400	NYLATRON TUBE	
26	1	2420	STRETCHER SECTION FRAME	
27	1	492012	BOLT	
28	1	492002	CASTER	
29	1	492003	SPACER	
30	2	303989-1	BEARING	
31	1	492011	BUSHING SPACER	
32	1	242035-1	TENSIONNEUR FRAME	
33	1	501034-1	HEX NYLON LOCKNUT GR5 1/2-20 Z	
34	1	500092	HEX BOLT GR5 3/8-16 X 2	
35	1	242149	STOPPER	
36	1	320027	RETAINNING RING INT. 1 3/4	
37	1	492041-1	ADJUSTEMENT ROD	
38	1	325238	KNOB	
39	1	66-CER-136-A	SHIELD	
40	2	507159	"U" BOLT 5/16 X 1	
41	4	500001	HEX BOLT GR5 1/4-20 X 1/2	
42	1	66-CER-138-A	LEFT BRACKET	
43	1	66-CER-137-A	RIGHT BRACKET	

25 - STRETCHER



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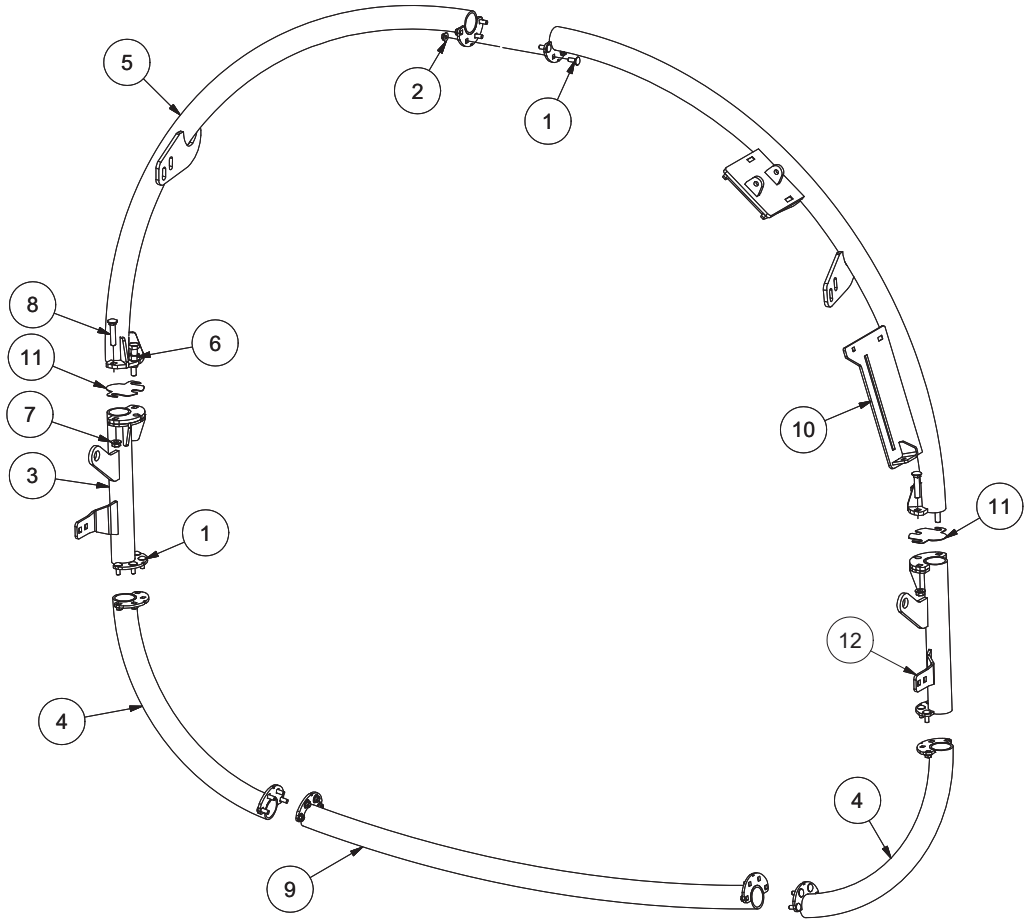
PARTS LIST			
ITEM	QTY	PART	DESCRIPTION
1	1	279102	SMALL GEAR
2	1	279100	LARGE GEAR
3	1	210586	RETAINING PLATE
4	1	210587	STRETCHER REAR PLATE
5	1	210588	STRETCHER FRONT PLATE
6	1	306017	RETAINING ROD
7	4	224067	BEARING CUP
8	1	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z
9	4	501022	HEX FLANGE NUT GR2 3/8-16 Z
10	9	501020	HEX FLANGE NUT GR2 1/4-20 Z
11	1	304005	SPRING
12	4	500360	CARRIAGE BOLT GR5 1/4-20 X 3/4 Z
13	3	500008	HEX BOLT GR5 1/4-20 X 1 1/4
14	2	500017	HEX BOLT GR5 1/4-20 X 2 1/2
15	4	303018	BEARING 6203
16	2	224069	ROLL
17	1	210589	COVER
18	2	325141	KEY

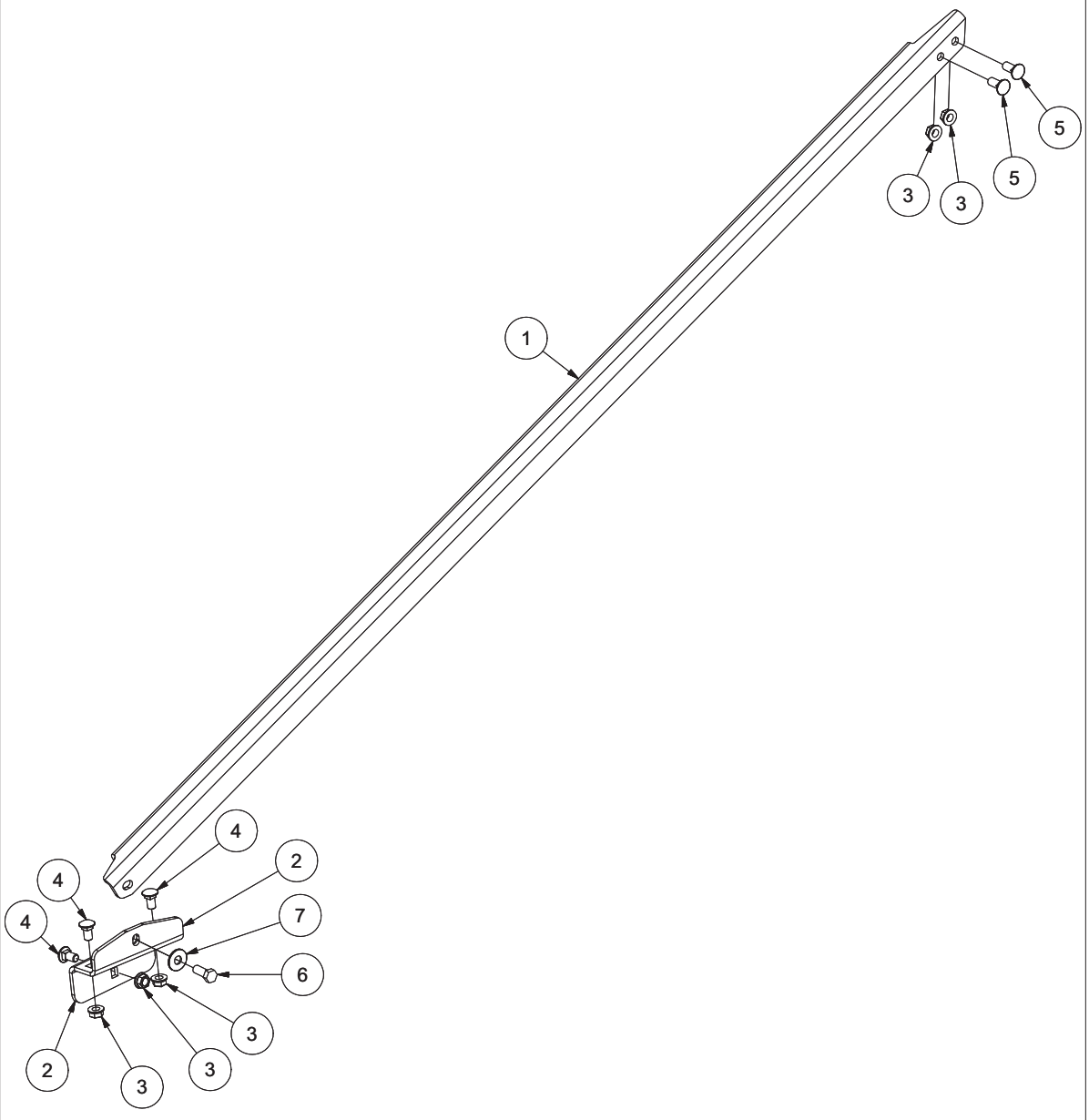
26 - INSIDE HOOP

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	20	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
2	20	501022	HEX FLANGE NUT GR2 3/8-16 Z	
3	1	242048	LEFT CENTRAL SECTION	
4	2	242049	LEFT AND RIGHT BOTTOM SECTION	
5	1	242050	LEFT UPPER SECTION	
6	2	500246	HEX BOLT GR5 5/8-11 X 2	
7	4	501024	HEX FLANGE NUT GR2 1/2-13 Z	
8	4	500506	CARRIAGE BOLT GR5 1/2-13 X 2 1/2 Z	
9	1	242051	CENTRAL BOTTOM SECTION	
10	1	242052	RIGHT UPPER SECTION	
11	2	242053	SPACER	
12	1	242048-1	RIGHT CENTRAL SECTION	



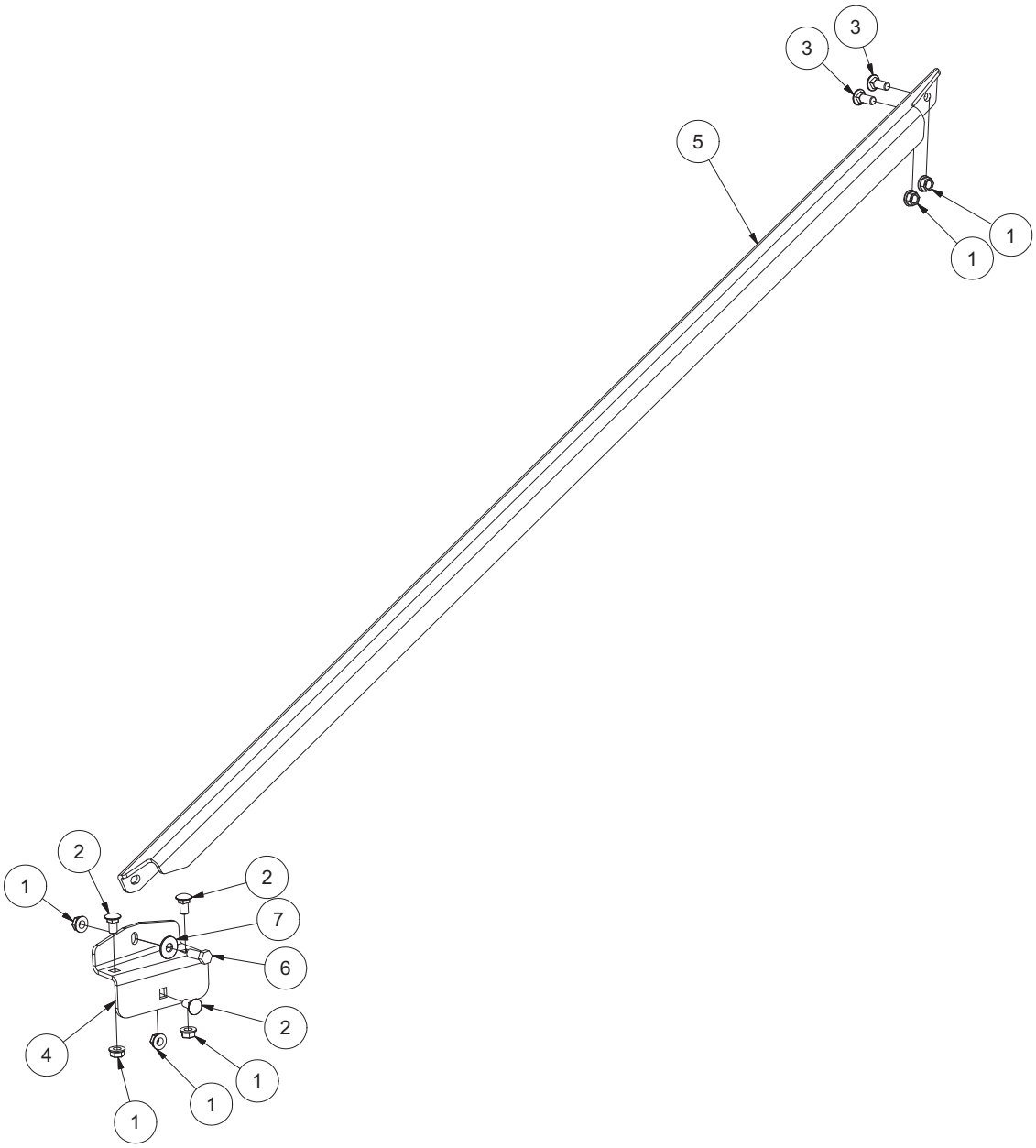
27 - HOOP BRACE

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	1	242150-1	RIGHT HOOP BRACE	
2	1	242169	RIGHT BRACE SUPPORT	
3	6	501024	HEX FLANGE NUT GR2 1/2-13 Z	
4	3	500500	CARRIAGE BOLT GR5 1/2-13 X 1 Z	
5	2	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
6	1	500175	HEX BOLT GR5 1/2-13 X 1 1/4	
7	1	502006	FLAT WASHER 1/2 Z	

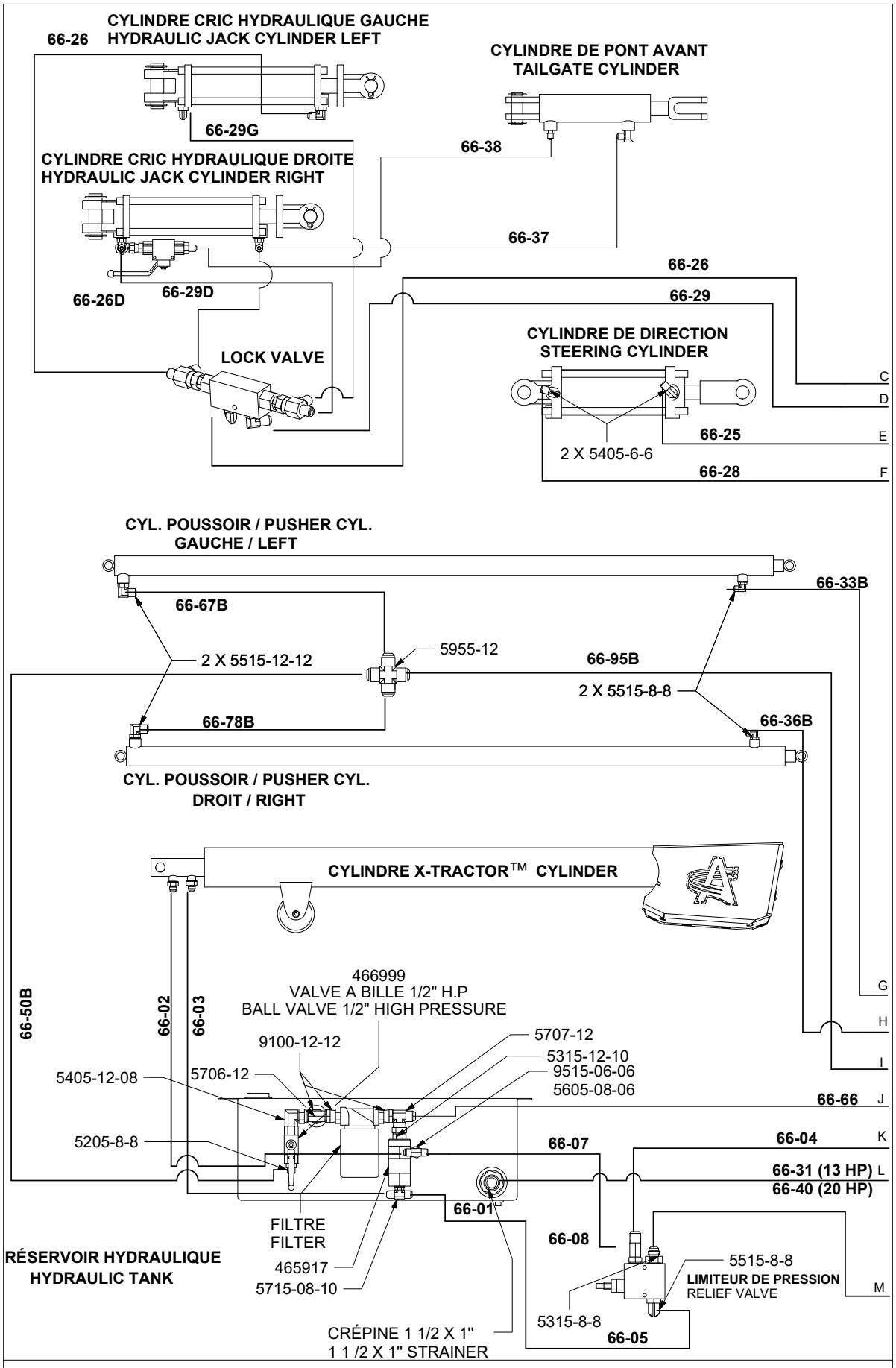


27 - HOOP REINFORCEMENT

PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	6	501024	HEX FLANGE NUT GR2 1/2-13 Z	
2	3	500500	CARRIAGE BOLT GR5 1/2-13 X 1 Z	
3	2	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
4	1	242168	LEFT BRACE SUPPORT	
5	1	242151-1	LEFT HOOP BRACE	
6	1	500175	HEX BOLT GR5 1/2-13 X 1 1/4	
7	1	502006	FLAT WASHER 1/2 Z	



28 - DIAGRAMME HYDRAULIQUE - HYDRAULIC DIAGRAM



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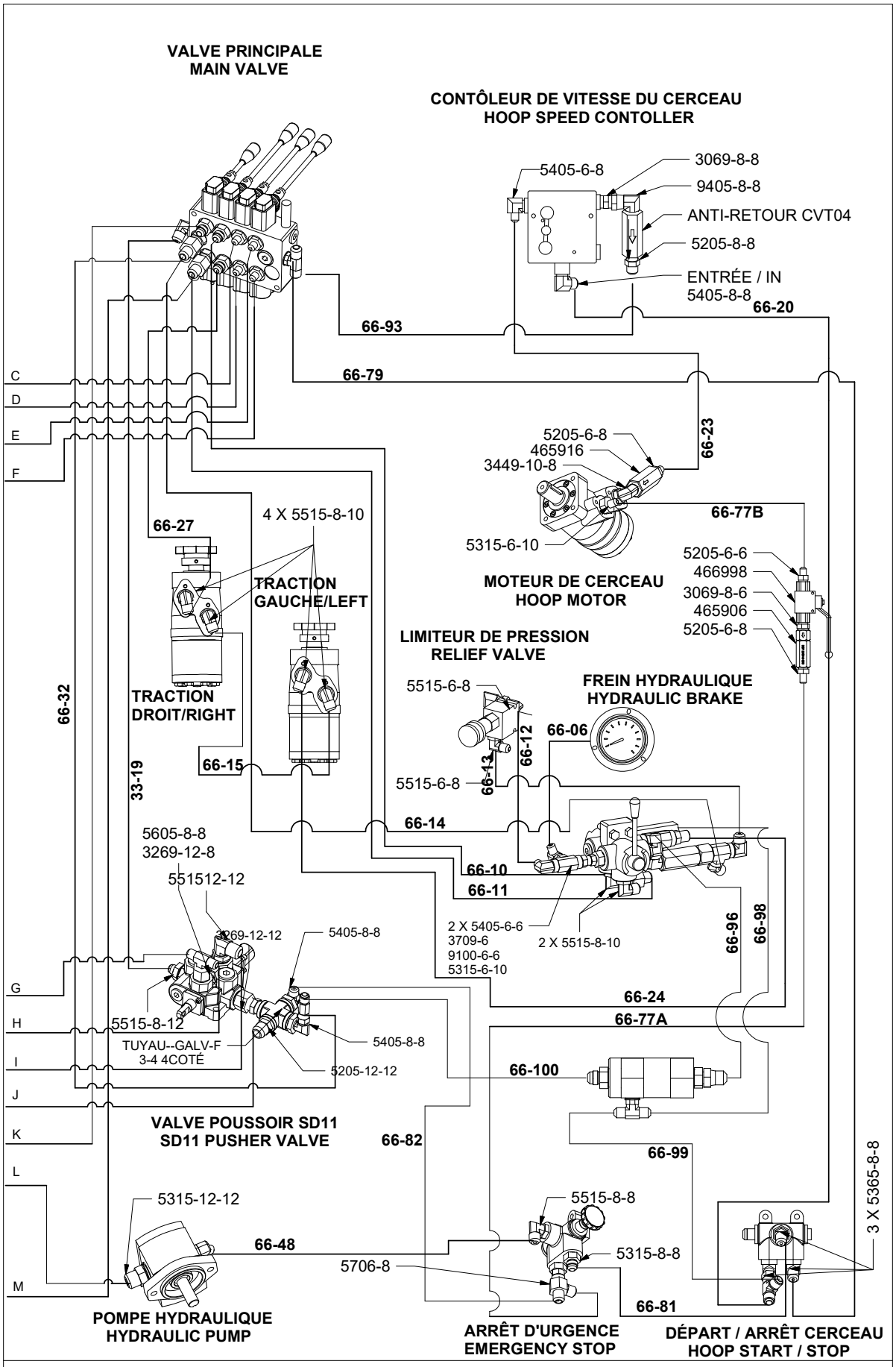
28 - DIAGRAMME HYDRAULIQUE - HYDRAULIC DIAGRAM



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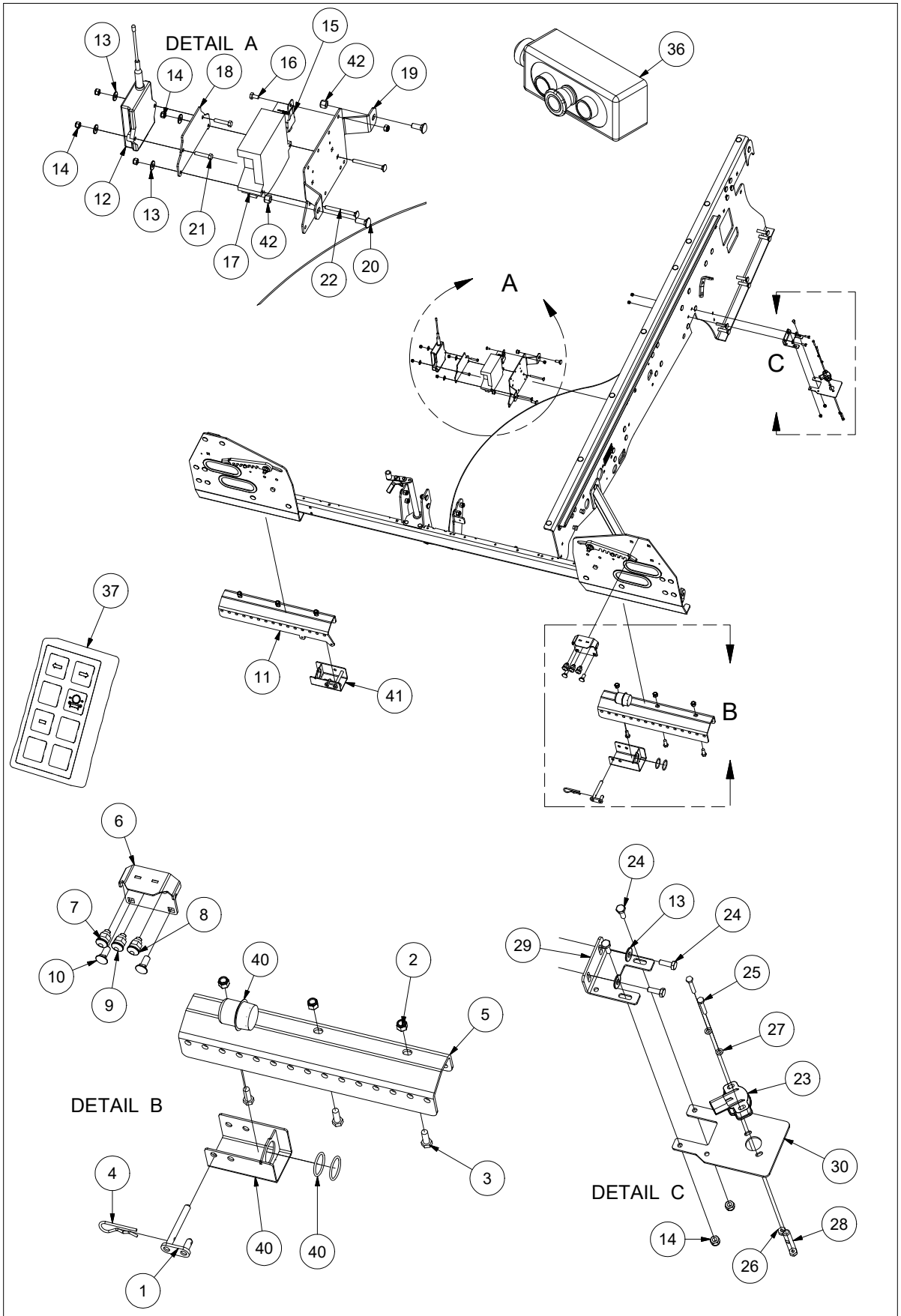
28 - DIAGRAMME HYDRAULIQUE-HYDRAULIC DIAGRAM

LISTE DE BOYAUX-HOSE LIST					
QTÉ-QTY	PIÈCE-PART	DESCRIPTION	QTÉ-QTY	PIÈCE-PART	DESCRIPTION
1	224450	66-01	1	224476	66-29G
1	224451	66-02	1	224477-1	66-31 (13 HP)
1	224452	66-03	1	224449	66-40 (20 HP)
1	224453	66-04	1	224478	66-32
1	224454	66-05	2	224479	66-33B
1	224455	66-06	1	224527	66-37
1	224456	66-07	1	224528	66-38
1	224458	66-10	1	224482	66-36B
1	224459	66-11	1	224483	66-48
1	224460	66-12	1	224484	66-50B
1	224461	66-13	1	224485	66-66B
1	224462	66-14	1	224486	66-67B
1	224463-1	66-15	1	224487	66-77A
1	224464	66-19	1	224487-1	66-77B
1	224465	66-20	1	224489	66-78
1	224466	66-23	1	224490	66-79
1	224467-1	66-24	1	224491	66-81
1	224468	66-25	1	224492	66-82
1	224469	66-26	1	224493	66-93
1	224470	66-26D	1	224494	66-95
1	224471	66-26G	1	224521	66-96
1	224472-1	66-27	1	224522	66-98
1	224473	66-28	1	224523	66-99
1	224474	66-29	1	224524	66-100
1	224475	66-29D			

29 - AUTOMATED DRIVING



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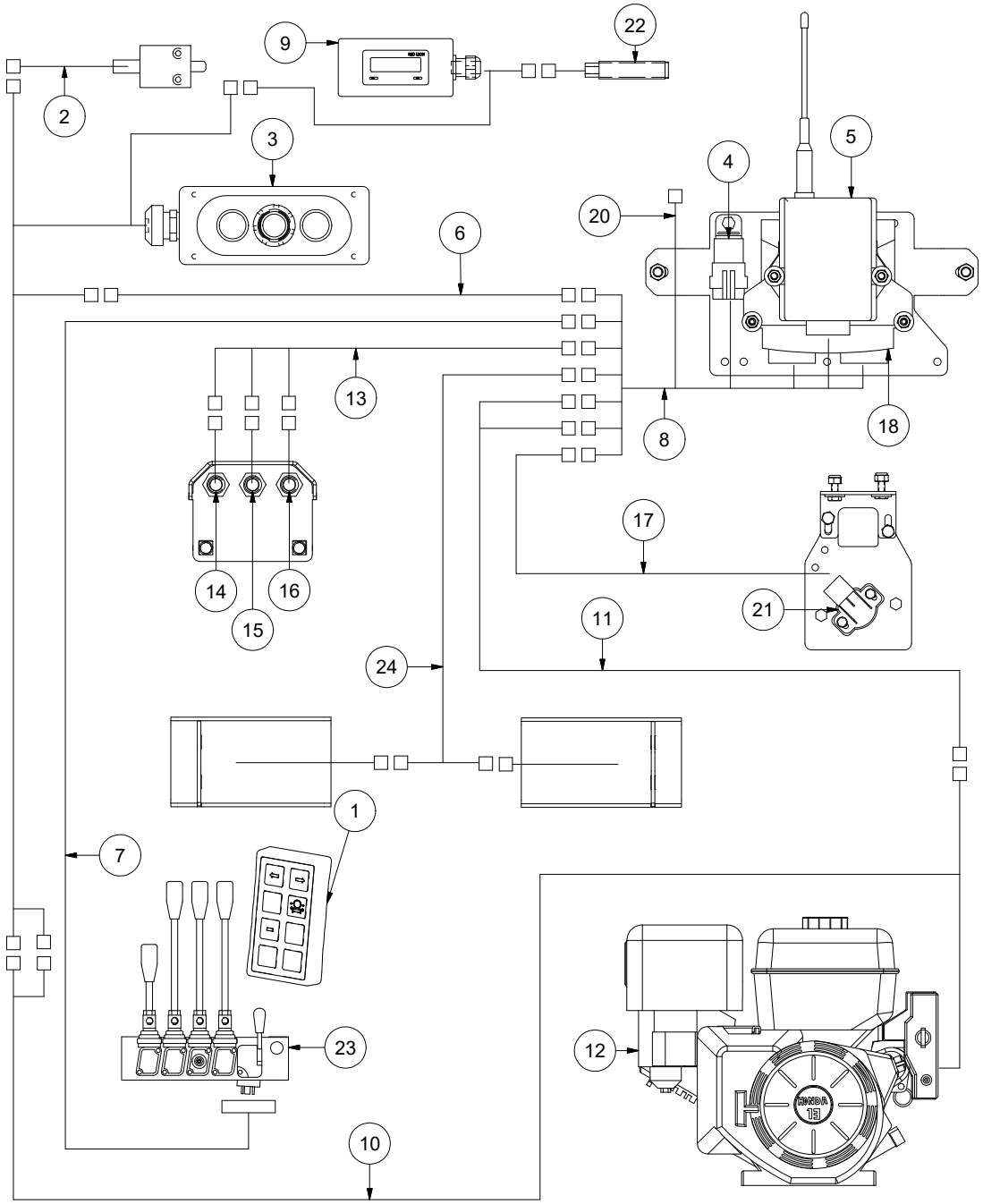
PARTS LIST				
ITEM	QTY	PART	DESCRIPTION	NOTE
1	2	210336	PIN	
2	16	501034	HEX NYLON LOCKNUT GR5 1/2-13 Z	
3	10	500175	HEX BOLT GR5 1/2-13 X 1 1/4	
4	2	320039	HITCH PIN 3/16	
5	1	210334	RIGHT GUARD	
6	1	210339	LIGHT GUART	
7	3	900565-1	GREEN LIGHT KIT	
8	1	900566-1	RED LIGHT KIT	
9	1	900564-1	YELLOW LIGHT KIT	
10	22	500501	CARRIAGE BOLT GR5 1/2-13 X 1 1/4 Z	
11	1	210335	LEFT GUARD	
12	1	315172	RECEIVER	
13	7	502002	FLAT WASHER 1/4 Z	
14	14	501030	HEX NYLON LOCKNUT GR5 1/4-20 Z	
15	1	900606	RELAY	
16	1	500001	HEX BOLT GR5 1/4-20 X 1/2	
17	1	315089-1	COMPUTER	
18	1	210360	RECEIVER SUPPORT	
19	1	210361	CONTROLER SUPPORT	
20	2	500442	CARRIAGE BOLT GR5 3/8-16 X 1 Z	
21	2	500008	HEX BOLT GR5 1/4-20 X 1 1/4	
22	2	500368	CARRIAGE BOLT GR5 1/4-20 X 2 3/4 Z	
23	1	900099	SENSOR	
24	6	500004	HEX BOLT GR5 1/4-20 X 3/4	
25	2	500348	HEX BOLT GR5 10/24 X 1 1/4 STAINLESS	
26	2	501049	HEX NYLON LOCKNUT GR5 M10-24-STAINLESS	
27	2	502015	WASHER	
28	1	210399	ACTIVATOR FOR SENSOR	
29	1	242025	SENSOR FRAME SUPPORT	
30	1	210333	SENSOR SUPPORT	
31	1	315155-4	3 FONCTION REMOTE	
32	1	315171	REMOTE CONTROL	
33	1	244080	CABLE HANGER	
34	2	244081	SPACER	
35	1	500582	HEX SOCKET HEAD CAP SCREW 1/4 X 1 1/4	
36	1	501050	HEX NYLON LOCKNUT GR5 10-24 Z	
37	1	244083	SPACER	
38	1	325237	RPM CABLE	
39	1	315228	USB CABLE TO CONNECTOR	
40	1	315230	CHARGER DC 12V TO 5V USB	
41	1	INCLUS DANS LE DROIT		
42	2	501032	HEX NYLON LOCKNUT GR5 3/8-16 Z	

29 - AUTOMATED DRIVING (OPTION)



LISTE DE PIÈCES			
ITEM	QTÉ	PIÈCE	DESCRIPTION
1	1	315332	REMOTE CONTROL
2	1	315160	LIMIT SWITCH
3	1	315155-4	CONTROL PANEL
4	1	900606	RELAIS 12V ``WEATHERPROOF``
5	1	315133	CONTROL (REMOTE STERING)
6	1	315152	CAB-4F-8-4M
7	1	315156	HARNESS TO ELECTRICAL VALVE
8	1	315192	HARNESS TO CONTROL
9	1	315096	BALE COUNTER
10	1	315158-4	HARNESS (EMERGENCY STOP)
11	1	315162	HARNESS (ELECTRIC START)
12	1	610006	ENGINE
13	1	315190	HARNESS (INDICATOR LED LIGHT)
14	1	900565	GREEN LED

LISTE DE PIÈCES			
ITEM	QTÉ	PIÈCE	DESCRIPTION
15	1	900566	RED LED
16	1	900564	YELOW LED
17	1	315189	HARNESS TO WHEEL SENSOR
18	1	315089	CONTROLLER (AUTOPILOT)
19	1	315101	OPTICAL SENSOR
20	1		PROGRAM ENTRY CONNECTION
21	1	900099	WHEEL ANGLE SENSOR
22	1	315097	BALE COUNTER SENSOR
23	1	465923	MAIN VALVE
24	1	315191	CABLE FOR DISTANCE SENSOR

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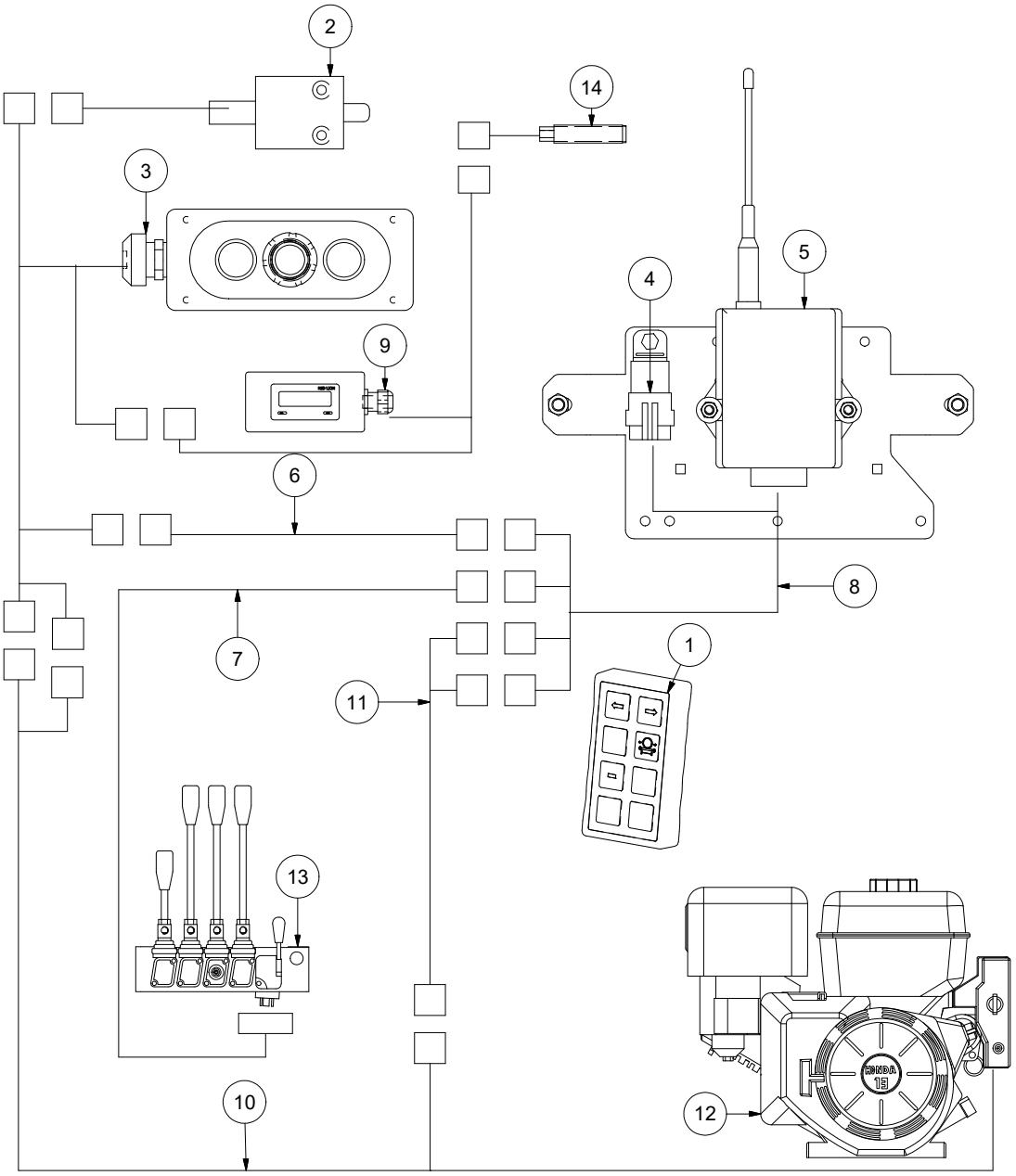
29 - REMOTE CONTROL DRIVING (OPTION)



LISTE DE PIÈCES			
ITEM	QTÉ	PIÈCE	DESCRIPTION
1	1	315132	REMOTE CONTROL
2	1	315160	LIMIT SWITCH (SAFETY GATE)
3	1	315155-4	DASHBOARD CONTROL PANEL
4	1	900606	RELAIS 12V ``WEATHERPROOF``
5	1	315133	CONTROLLER (REMOTE STEERING)
6	1	315152	CAB-4F-8-4M
7	1	315156	HARNESS TO ELECTRIC VALVE
8	1	315188	HARNESS TO CONTROLLER (REMOTE STEERING)
9	1	315096	BALECOUNTER
10	1	315158-3	HARNESS (EMERGENCY STOP)
11	1	315162	HARNESS (ELECTRIC START)
12	1	610006	ENGINE
13	1	465977	MAIN VALVE
14	1	315097	BALE COUNTER SENSOR

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