Tube - Line 5500 X2 Owner's Manual 2005



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Fender Bale Switch Fuel Tank / Mount Tool Box Running Lights Manual Hydraulic Schematic Electric Hydraulic Schematic Electric Control Panel Schematic Sequence of Operation Manual Sequence of operation Automatic Film Sensor Wheel Drive Wheel Drive Wheel Motor Hydraulics To Use The Wheel Twin Wrap Kit Re: Mounting Accessories (year 2003) Remote Guide Roller Kit Lights Leveler

Tubeline 5500 X 2 New for 2005

- 1. Roll-Away Safety Guard
- 2. Engine placement at Control Panel side
- 3. 18 Amp. Charging System
- 4. Bale Saddle/Riser integrated
- 5. Roller Bed Leveler (lever actuated)
- 6. Fold Away Push Off Arms
- Outside Frame parts Bolt On (can be shipped in van trailer) will require more assembly. With Doors removed Rail to Rail is 100 inches.

Welcome to this new Operators Manual

After the cover page comes a Table of Contents. This is a list of "HOT" buttons on the different topics and parts drawings. At the bottom of most pages is a "Hot" button back to the table of contents. On the bottom of the parts drawings is also a "Hot" button to the list of part numbers. Clicking on the "Hot button in parts list will take you back to the parts drawing again.

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Warranty

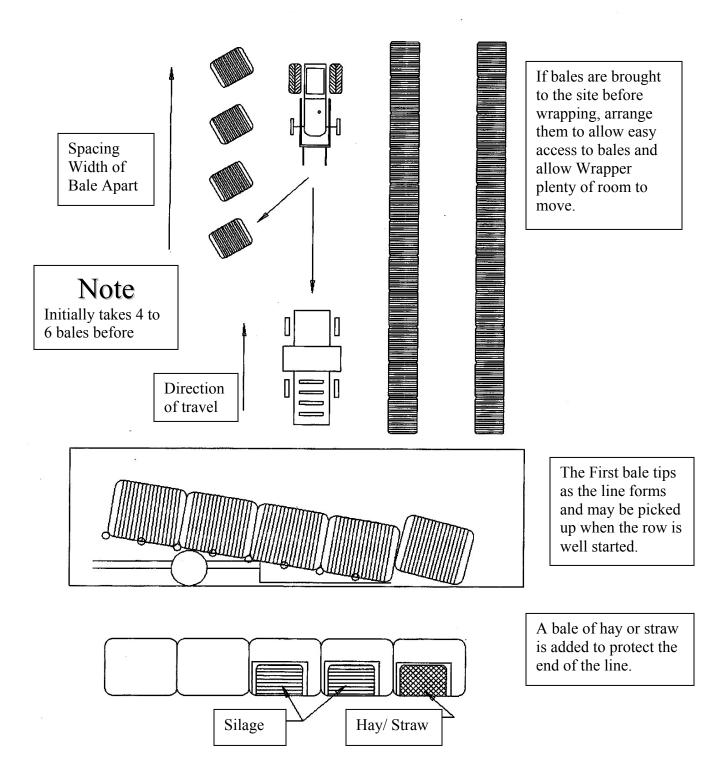
Warranty and Limitation Of Liability

All Equipment is sold subject to mutual agreement that it is Warranted by the company to be free from defects of material and workmanship. But the company shall not be liable for special, indirect or consequential, damages of any kind under this contract or otherwise. The company's liability shall be limited exclusively to replacing or repairing without charge, at it's factory or elsewhere, at it's discretion. Any material, or workmanship defects which become apparent within one year from the date on which the equipment was purchased, and the company shall have no liability for damages of any kind. The buyer by the acceptance of the equipment will assume all liability for any damages which may result from the use or misuse by his employees or others.

Warranty coverage is null and void unless Warranty Registration form has been completely filled in and is on file at Tube-Line Manufacturing Inc.

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Tube Line Set up



Operating the Model TL5500 Tube-Line Bale Wrapper

Big Bale Silage

The objective of big bale silage is to provide high quality forage using a minimum of equipment. To do this, crop must be cut at the correct stage of maturity, wilted, baled tightly and wrapped air tight using a good quality stretch wrap.

The Tube-Line wrapper makes timely harvest possible by reducing the dependence on the weather. It is much easier to get weather to wilt silage then to make dry hay. This also extends the working day, as forage is at the correct moisture to bale earlier and later in the day.

Bales

Well-shaped firm bales are necessary for successful wrapping. Bales are best wrapped as soon as possible after baling. If bales are left unwrapped, they will sag and lose shape. Heating will start soon after baling and protein quality will be lost. It is desirable to wrap within four hours. In an emergency such as rain, bales can be left 12 to 16 hours.

Successful silage can be made over a wide moisture range. In general, 40 to 50% moisture is satisfactory for dairy cows. Some beef farmers prefer 60 to 70% moisture as it limits intake. A good rule of thumb is to dry "Half-way to hay". Drier silage gives you:

- 1. Lighter bales to handle
- 2. More desirable fermentation with fewer odors
- 3. Less freezing in the winter
- 4. Higher dry matter intake

Wrapping Site

Select a site that will allow room to make an adequate bale row length. The Tube-Line is a very fast wrapper, but requires time to set up and move to a new line. There should be space for at least 50 or more bales in a row.

Select a site that is accessible in winter conditions and does not flood in the spring.

A firm surface is necessary for the successful operation of the Tube-Line. Avoid soft ground, as the wrapper will not move forward smoothly if it is sinking into the ground. Wrap on the level or up a slight grade.

A site that is free from grass and debris will be less likely to attract rodents that can damage the plastic.

Bale Size

ROUND BALES The Model TL5500 will wrap bales of up to $5\frac{1}{2}$ wide and up to 5' high. It will wrap all sizes smaller then these dimensions as well.

Remember when making big bale silage, the bales will be heavier then dry hay. This puts extra strain on loading and transporting equipment. Also, bales will be heavier when feeding out and may have to be moved on wet ground or snow. As a result, most operators reduce silage bale diameters to $4-4\frac{1}{2}$, even though the wrapper and baler will handle larger bales.

Square Bales

The Model TL5500 X^2 will wrap most sizes of square bales. The length should be reduced to 5'. This is to allow the bales to be placed on the bale receiver. This may also be the maximum length advisable to handle big square bales of silage.

Bales, which are approximately 4' wide and 2' high, can be stacked two high for wrapping.

Bales, which are approximately 3' wide and 3' high, do not stack well. These may be wrapped in a single tier of bales.

Big square bales must be wrapped manually, or with the remote control kit. When stacking two high, the first bale would activate the automatic device prior to loading the second bale.

Extra care must be taken to ensure that extra film is applied at the bale joints if the bales are uneven.

Recommended Operating Procedure

We suggest the following method of operating the TL5500 X2 Tube-Line Wrapper.

-Park the wrapper where you want the end of the row to be, facing in the appropriate direction.

-Fold front section of tongue and insert bracket in hydraulic steering pin.

-Start the engine

-Undo tail tiebar hairpin and lay bar over rear axle and put hairpin back into place to prevent loss.

Caution: <u>To Prevent Injury</u>—Prior to lowering wrapper tail section, be sure to check that all bystanders are standing clear.

-Lower the tail section using the manual operating valve

Installation Of Plastic

Plastic from factory has a natural *tack* on inside. In event of plastic being stored for an extended period of time, the tack may migrate to opposite side. To test for *tacky* side, fold plastic inside to inside and pull apart. Fold opposite (top to top) to determine tackier side. The roll of plastic should be installed with *tack* on inside of the plastic film next to the bale of silage. The plastic then passes over the slave roller and is threaded through the two metal rollers on the tensioner as shown in the diagram.

The two metal stretcher rollers rotate at different speeds. This causes the plastic to be stretched. It is very important that the plastic goes over the slow roller first and the faster roller second.

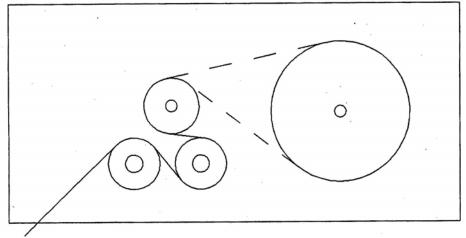
If there is any question on which is the faster roller:

- 1. Place a pen mark on each roller and rotate one roller one turn.
- 2. Check the location of the mark on the other roller.

If it has advanced further, then it is the fast roller.

If it has advanced less, then it is the slow roller.

When the plastic is installed correctly, it should stretch tight on the bale to form a smooth tube.



Trouble Shooting Plastic Installation

1. Wrinkles in the plastic with seams between layers easily visible.

Check to determine if plastic is properly routed through the metal tensioner rollers.

2. Plastic tears between tensioner and bale.

Reel holders not turning freely. Lubricate and turn manually until free.

Slave roller not turning freely. Lubricate and turn manually until free.

Poor quality plastic. Use a brand with a good tear resistance.

Tack build-up on rollers. Particularly in hot weather, the tack, which sticks the layers of plastic together, can build up on the rollers. Clean the tensioner with warm soapy water.

Plastic roll is too hot. In very hot weather the plastic can become soft if left in the sun for long periods of time. In these conditions, the spare rolls should be kept in the shade. After installation on the machine the roll can be parked under the row of wrapped bale if not used for an extended period of time. In extreme heat, the top position roll on twin tensioner machines can be covered to provide shade when not in use.

Roll of plastic catching on the bottom of the bale. If bales are misshapen, the roll of plastic may drag on the bottom of the bale, causing the plastic to break.

If wrapper is equipped with electric automation:

Switch the control to manual.

Caution: Prior to rotating hoop, check to be sure guards are in place and all persons are clear of hoop.

-Test the hydraulics by rotating the hoop and moving the bale ram back and forth. -Install the roll of plastic according to Plastic Installation diagram.

Caution: Close guards after installing plastic to avoid injury.

Caution: Round bales are heavy and silage bales are even heavier. Use only authorized bale-handling equipment. Keep bales low when turning loader.

Bale Guide Bars/Riser

The bale guide bars are designed to align the round bales as the bales are set on the wrapper. These bars should be adjusted to the narrow setting to wrap round bales up to 5ft dia. For bales larger than this use the wide setting.

When wrapping square bales use the narrow setting and change the switch plate to the top

To Wrap Bales with Model TL5500 X2 A (automatic)

Open the bale pusher and place the first bale on the table. Push this bale and two other bales through the hoop. This gives a stable end for the line. These bales can be picked up and placed on the wrapper later when the line is formed and wrapped later. Alternatively a bale of straw can be used to form a tight seal in addition to the plastic sheet or bag.

-Pull about 4' of plastic through each plastic stretcher and tie it under the twine on the third bale. Or tie it to the bracket at control panel (see picture on page 14).

-Place a single bale bag or a sheet of plastic on the next bale to form the end seal.

-With control panel switch "auto/man" set to "man" turn "forward" switch to advance bale without the plastic stretcher applying plastic.

-As the bale is pushed through the hoop, start the plastic dispenser rotating to apply plastic by pushing in the "Rotate" button.

-When the ram hits the switch at the end of stroke forward motion on cylinder will stop, "this switch can be moved on the slider arm to accommodate your needs. More about this later."

-With switch set to "man", the switch buttons have to be turned and/or pushed and held, when you let them go the function will stop.

-Turning, reverse switch will retract the ram and open the bale pusher to accommodate the next bale.

-After you have wrapped a few bales in this way, switch "auto/man" switch to "auto" and place bale onto bale table. As bale depresses the table trigger the ram will start automatically. Adjust second slider switch to start the wrap cycle where you prefer.

-To stop cycle after the cycle has started in the automatic mode turn **auto/man** switch to "man". (or if you have the optional remote kit, push **stop** switch to stop the wrap cycle.) After you have rectified the problem finish the rest of cycle in the "man" mode and then return to "auto" mode.

-For safety reasons safety switches are installed in doors. In "auto" the safety doors must be closed for machine to function properly.

Steering

The wrapper is equipped with hydraulic steering. The purpose of this is to keep the wrapper operating in a straight line or direct the wrapper around obstacles. If the ground is uneven or the wrapper is operated on a side hill then it can drift out of line. The loader operator is usually able to detect if the wrapper is not moving in the desired direction. Also the steering can be used to go around obstacles in the wrapping path. Do not make sharp turns as this prevents the bales from being tightly packed together. With the <u>automatic wrapper</u> the steering speed can be adjusted with the needle valve at the manifold block.

-When starting the row, align the wrapper in the desired direction for the row and ensure the steering is in the center position.

With - Optional Remote Control-

With optional remote control the machine can be controlled with the hand held unit. The table trigger switch should be unplugged. Then the control panel, "man/auto" switch on "auto", bale can be placed on table without cycle starting. After the bale has been placed, and you want the cycle to start, press the start button on the hand unit. The machine will now go through the complete wrap cycle and stop at the end of the cycle. Two of the remote buttons are used to control right and left steering. The fourth button is the remote cycle stop.

-Notice- The <u>on/off</u> switch on the control panel will <u>turn off the electric</u> current to the <u>control panel</u>.

-Slider Switches-

Adjust the <u>second</u> slider switch to start the rotate motor when the bales have made contact. By adjusting the slider switch at the <u>rear</u> of the slider bar, which will stop the ram and wrap motor, and reverse the ram cylinders. Adjust it so that the junctions of the 2 bales are in the wrap chamber. It is possible to adjust the <u>second</u> slider switch so the wrap will start just before the bales start moving through the wrap chamber, thereby putting extra plastic on the joint of bale. The <u>front</u> slider switch is set to stop the ram retract stroke after the engine has throttled down.

Brake

The **brake** is operated by using the brake hydraulic valve. Moving hydraulic lever will cause oil pressure to apply brakes on the rear wheel. Increase pressure to the point where the bales are packed firmly together. <u>Close brake ball valve</u> to maintain positive pressure on brakes.

Open ball valve and **RELEASE BRAKES** WHEN THE ROW IS FINISHED AND PRIOR TO TRANSPORTING THE WRAPPER!!

To Wrap Bales with **Model TL5500** (with the manual hydraulics)

Open the bale pusher and place the first bale on the table. Push this bale and two other bales though the hoop. This gives a stable end for the line. These bales can be picked up and placed on the wrapper later when the line is formed and wrapped later. Alternatively a bale of straw can be used to form a tight seal in addition to the plastic sheet or bag.

-Pull about 4' of plastic through each plastic stretcher and tie it under the twine on the third bale. Or tie it to the plastic loop bracket at the control panel, see picture on page 14.

-Place a single bale bag or a sheet of plastic on the next bale to form the end seal.

-Set the selector value to 'bale only'. This will allow the bale to be moved without the plastic stretcher applying plastic.

-Place this bale on the table. Push it to the hoop.

-As the bale is pushed through the hoop, start the plastic dispenser rotating to apply plastic by operating the 'wrap' valve.

-The bale should be advanced 4" for each rotation of the plastic dispenser. This will apply 4 to 5 layers of plastic.

-Until the operator is familiar with the operation of the wrapper, it is best to advance the bale about 4", do a wrap of plastic, advance the bale, do a wrap, etc. When the operator is familiar with the machine, set the flow valve so that the correct amount of plastic is applied as the bale is moved forward.

-Set the selector valve to 'both'. This will start the plastic when the bale is being pushed.

If there is a space between the bale after it is loaded and the previous bale, Set selector valve to 'Cylinder Only' Advance the bale until it contacts the previous bale

Then move the selector valve to 'Both'

If the bales do not line up then put on extra wrap at junction of the bales to ensure a good seal.

-Careful application of an adequate amount of plastic is critical to give a good quality product. Careless application of plastic will result in losses.

Continually watch the row for dark "window" indicating that not enough plastic has been applied.

Contents

Steering

The wrapper is equipped with hydraulic steering. The purpose of this is to keep the wrapper operating in a straight line or direct the wrapper around obstacles. If the ground is uneven or the wrapper is operated on a side hill then it can drift out of line. The loader operator is usually able to detect if the wrapper is not moving in the desired direction. Also the steering can be used to go around obstacles in the wrapping path. Do not make sharp turns as this prevents the bales from being tightly packed together.

-When starting the row, align the wrapper in the desired direction for the row and ensure the steering is in the center position.

Use Of The Operating Brake

The Model TL5500 X^2 is equipped with an operating brake. It is essential that bales be packed tightly together to ensure that the silage is sealed and will keep well. If the bales are not securely packed end to end, air can enter between the bales and cause spoilage.

It is best to choose a wrapping site where the wrapper operates on the flat or slightly up hill. If the ground is very hard and causes very little rolling resistance, or the wrapper must be operated down hill, then the brake must be used to pack bales.

The brake is operated by using the brake hydraulic valve. Moving hydraulic lever will cause oil pressure to apply brakes on the rear wheel. Increase pressure to the point where the bales are packed firmly together. <u>Close brake ball valve</u> to maintain positive pressure on brakes.

Open ball valve and RELEASE BRAKES WHEN THE ROW IS FINISHED AND PRIOR TO TRANSPORTING THE WRAPPER. <u>Completing The Row</u>

-When the desired row length has been reached, place a bale bag on the bale to seal the end.

-Continue to apply stretch wrap until the bag is completely wrapped. <u>Contents</u>

Pushing off the bales from wrapper

-The automatic wrapper will have to be switched to manual position for pushing bale off.

Caution: The use of automatic setting when pushing off bales will increase the risk of injury.

-To push off the bales

Open the bale pusher

-Remove the lynch pins from the front of push plate arms; unfold the arms to extend the push plate.

-Remove the lynch pins from the top of arms and swing the X bars onto the pins, replace the lynch pins to secure the X bar.

#1 Push bale through wrapper by using the forward button and wrap button with automatic machine or with manual machine with lever in "both" mode until you have enough plastic on bale.

Continue pushing bale through wrap chamber until you have reached the end of stroke.

#2 Retract the bale pusher.

#3 Refold the push plate arms and secure with lynch pins at front of arms.

#4 Open the safety doors, Remove 2 x 3 tube from engine side of wrapper and lay across the top of pushoff Brackets.

#5 Close pusher a second time to push bales off the wrapper.

#6 Flip the folded arms open at the rear of the ram tubes.

#7 Open the pusher and move $2 \ge 3$ tube to the socket at the rear end of the arms. Close the pusher to finish pushing off the bales from the tail.

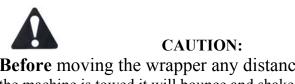
#8 Open the bale pusher, store 2 x 3 tube in bracket with lock pin.

#9 Fold the arms at the rear of the ram tubes back into the original position.

#10 Fold up tail end of roller table using the "tail" valve and secure with tie bar.

#11 Undo steering, unfold tongue and insert lock pin.

#12 Check to make sure the brakes are released before driving away.



Before moving the wrapper any distance close fuel valve at the engine. As the machine is towed it will bounce and shake, and the carburetor float will let too much fuel into the engine and washing the cylinder walls down and ending up in the engine oil.

DO NOT TOW BALE WRAPPER AT SPEEDS OVER 35KPH.

Daily Maintenance:

Lubricate all grease points Apply liberal amounts of grease to the pusher slides daily.

NOTE: PLASTIC STRETCHER IS TO BE GREASED ONLY ONCE PER SEASON!

When wrapping in hot weather there can be a build-up of adhesive on the plastic stretcher. This can cause the plastic to break. If there is a build-up of adhesive. Wash stretcher with soap and water.

Wrapping Straw

The TL5500 X2 wrapper can be used to weather protect straw. Only two layers of plastic are necessary.

If straw is dry, it may be wrapped continuously without spaces. Straw that has some moisture is best wrapped with spaces in the plastic.

After wrapping:

After wrapping inspect rows of silage regularly to ensure there is no damage occurring from birds, rodents or livestock.

Feeding Out:

With the TL5500 X_2 , a loader can pick bales without cutting the plastic. The plastic breaks away between bales and can be removed from the side of the bales before dropping the bales in the feeder.

Tube-Line wrapped bales do not spoil as the line is fed. Unlike long bags of bales, the stretch wrap prevents air from moving past the bales and causing the bales at the far end

to heat. As the next bale is undisturbed it will not spoil for one to two days in warm weather and for at least a week in cooler weather.

Disposal Of Plastic

Users of bale wrappers are encouraged to collect all plastic to prevent it from becoming an environmental problem. If there is a high temperature incinerator in your area, the plastic can be safely burned without producing hazardous by-products.

Plastic, although bulky, is inert in a landfill and will not pollute ground water.

Manufacturers are making serious efforts to economically recycle silage plastic. Use a recycling service when available, collect and dispose all plastic. Unsightly used silage film will encourage complaints.

The design of Tube-Line Bale Wrappers is protected under Canadian Patent 1285862 and USA Patent 4793124.

Edited 11/08/2004 for Model year 2005

Specification

TUBE-LINE 5500

Hydraulic Pump

Prince Model # SP20A11A9HR .677 cu in/rev Side ports inlet port 1 1/16-12 O-ring Outlet port 7/8-14 O-ring Mounting 2 bolt 'A' flange Shaft 5/8 keyed Rotation clockwise

Manual Valve

Prince model RD5300RD532CCCAAA5A4B1 Tandem center Spring center to neutral from work position Work ports blocked in neutral Prince model LS3000 LS-3010-01 4 way 3 position Pressure release detent spring center to neutral ³/₄ NPTF In\Out ports ¹/₂ NPTF Work ports

Electric Hydraulic Valve

Continentaltandem center 12 volt DC VS12MBLGB75Continentalsingle center 12 volt DC VS12M1AGB75LPrince2-spool monoblock RD522CCAA5A4B1Prince Power Beyond Plug #8 SAE 66028001

Hydraulic Motor

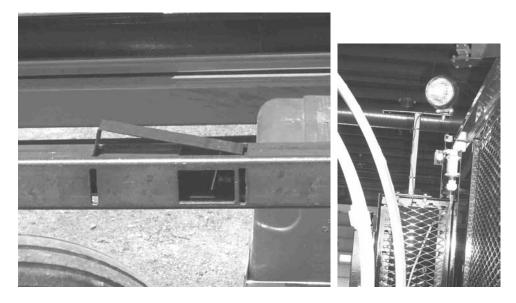
Charr Lynn 101-1004 1" keyed straight shaft ½" pipe ports 9.7 cu in/rev displacement 4-bolt flange

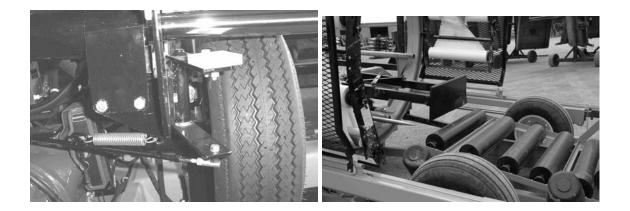
Hydraulic Oil

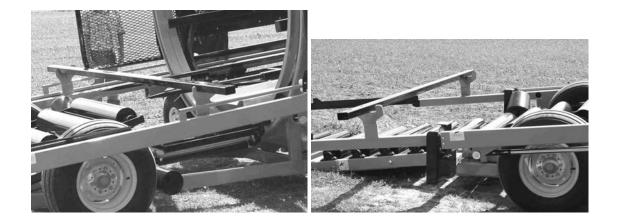
SAE # 10 Hydraulic Oil 10 US gal

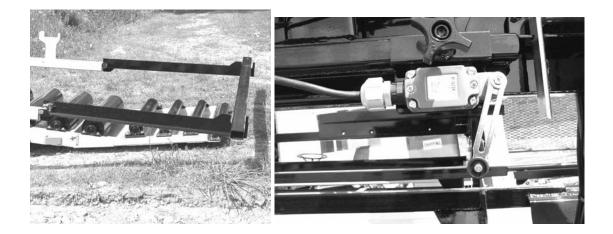
Hydraulic Filter 10 micron Stauff – SF6520 Gresen – F22001 Fram – P1653-A Fleetguard – HF6510 Cross – 1A9021

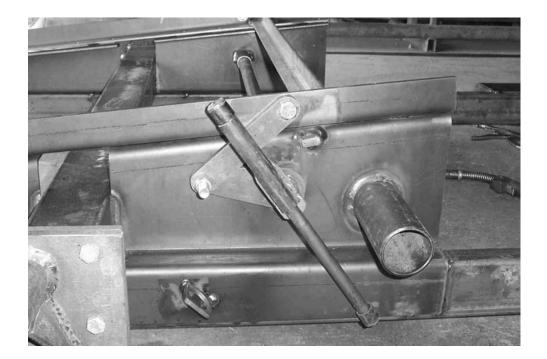














Notes

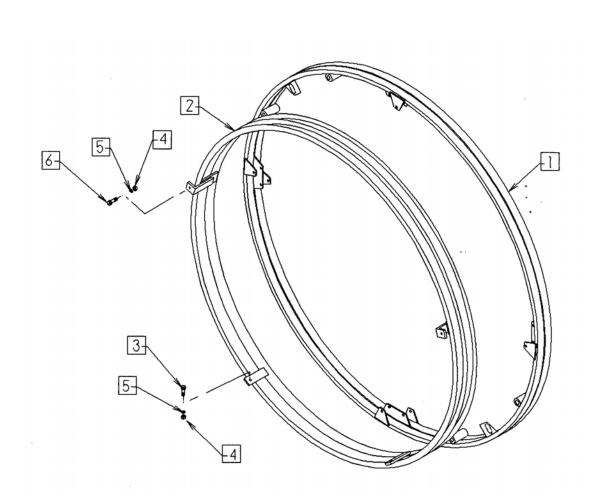
Electric Solenoid valves can be manually operated by pushing a small punch into the end of spool and holding it in. **Do Not Use a Hammer!!**

Caution Stay Away From Hoop When Engine Is Running

Inside of Control Panel, control relays are numbered CR1 to CR5 from left to right. Relay CR1 is wired to table trigger. CR1 will activate solenoid valve to extend ram cylinder. CR2 is wired to switch at the front slider, when ram is extended to this switch CR2 will close, energizing the wrap motor valve. Ram cylinder will extend and wrap motor will turn until ram comes in contact with slider switch at rear, then CR1 and CR2 will turn off and CR3 will turn on. Wrap motor will stop and ram cylinder will retract until ram cylinder trips limit switch at front end of table. All controls will then turn off. Testing can be done by pushing trigger plate and wait until machine goes through cycle, or you can push small square button on the front of relay 1 and let machine go through cycle.

When control relays are activated a small light goes on inside the relay. When running machine through the cycle and wrapper motor or the cylinders do not work, check flowcontrol valve to see if flow is going to both motor and cylinder. Engine is stopped by grounding ignition, in case of ignition failure make sure that stop switch wire is not grounded to frame and engine switch is not in stop position. Steering is controlled by switch right/left on control panel through CR4 and CR5 activating coil A or B on steering solenoid valve.

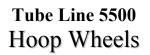
<u>Contents</u>

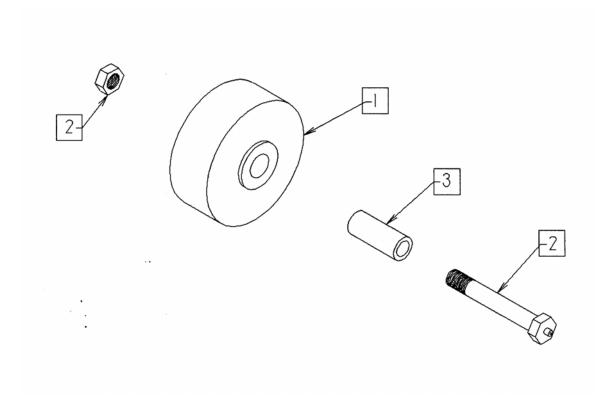


Tube Line 5500

Ноор

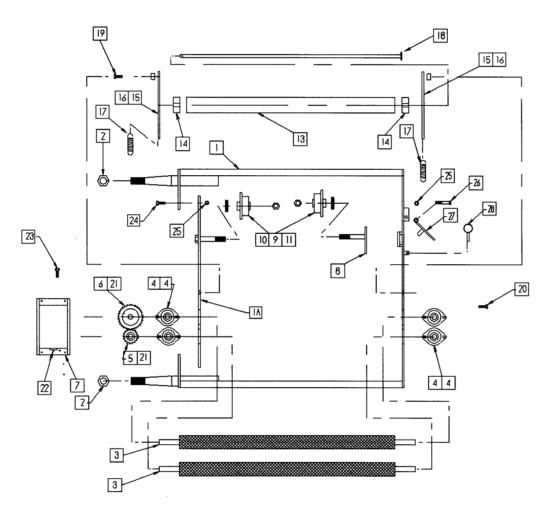
Item #	Description
1	Outer Ring
2	Inner Ring
3	5/8 x 2 Bolt
4	5/8 Nut
5	5/8 Lockwasher
6	5/8 x 3 ½ Bolt





Item #	Description
1	4 inch Wheel
2	Axle Bolt / Locknut
3	Spanner





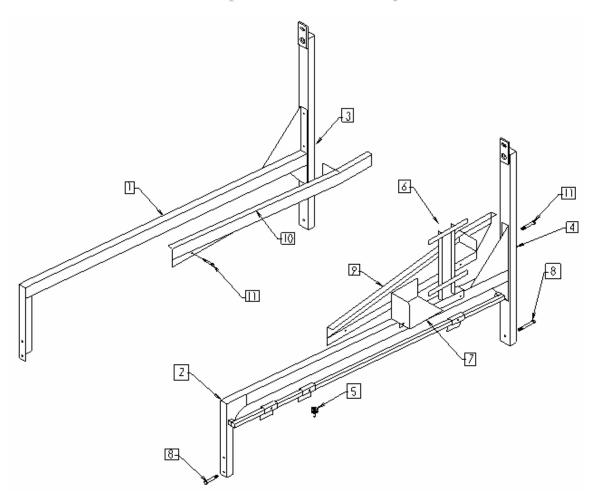
Tube Line 5500 Plastic Wrap Carrier

Item #	Description	Item #	Description
1	Main Wrap Bracket	15	ABS Bracket
1A	Main Wrap Side Insert	16	Spacer
2	1-14 UNF Casselnut	17	Spring
3	Tensioner Roller	18	Axle Shaft
4	³ / ₄ inch Bearing	19	¹ / ₂ x 2 Bolt
5	Small Gear	20	5/16 Carriage Bolt
6	Large Gear	21	3/16 Keystock
7	Gear Cover	22	Grease Fitting
8	Spool Holder	23	10-24 x ³ / ₄ Bolt
9	Plastic Wrap Spool	24	3/8 x 1 #5 Bolt
10	5/8 Flat Washer	25	3/8 Locknut
11	5/8 Nylocknut	26	3/8 x 2 ½ Bolt
13	ABS Pipe	27	Latch
14	HMWPVC Bearing	28	3/16 Linch Pin

Contents

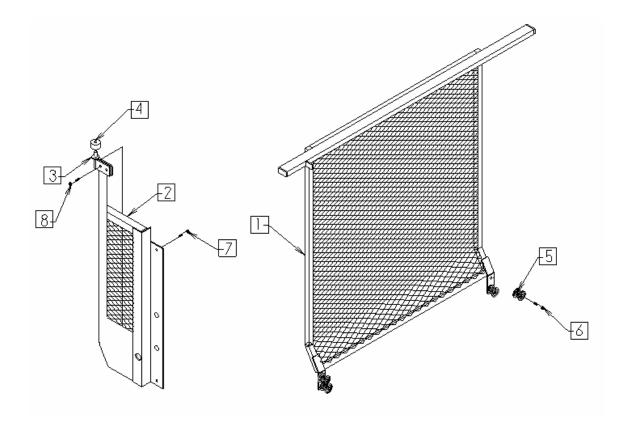
Parts 1

Tube-Line 5500 X2 Hoop Brace Assembly

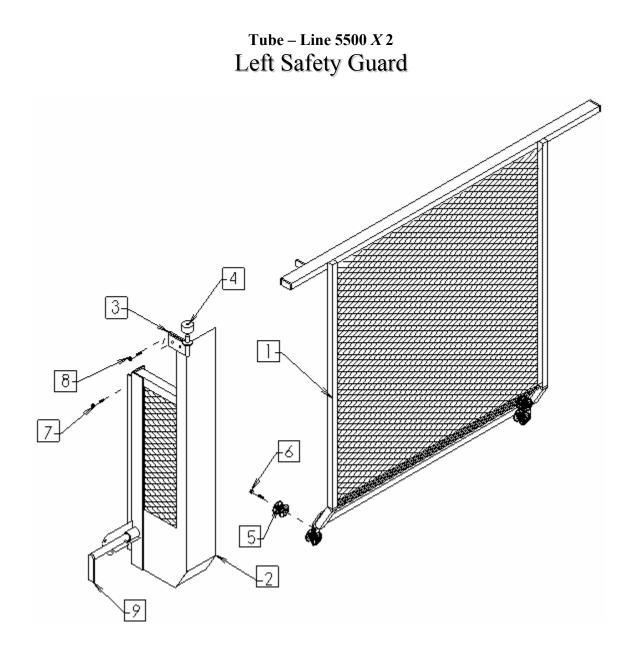


Item #	Description	Item #	Description
1	Right Brace	7	Manual Control Mount
2	Left Brace	8	¹ / ₂ x 3 bolt
3	Right Hoop Post	9	Left Bale Deflector
4	Left Hoop Brace	10	Right Bale Deflector
5	Switch Adjuster Screw	11	3/8x 3 Bolt
6	Automatic Control Panel		
	Mount		

Tube – Line 5500 X 2 Right Safety Guard

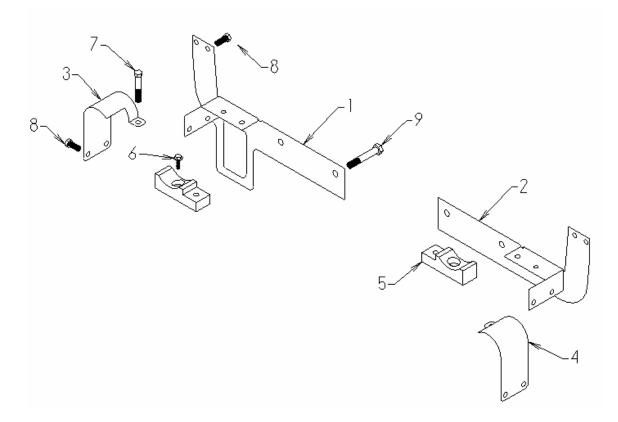


Item #	Description	
1	Safety Door	
2	Safety Guard Bracket	
3	Top Roller Bracket	
4	Top Roller	
5	Bottom Roller	
6	¹ / ₂ x 3 Bolt	
7	3/8 x 3 Bolt	
8	3/8 x 1 ½ Bolt	



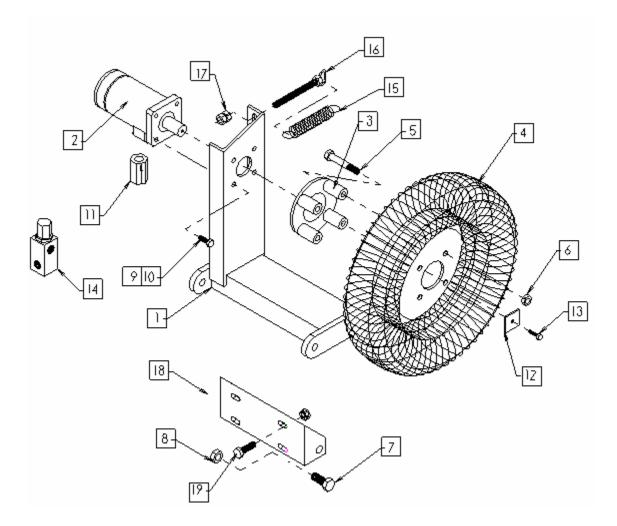
Item #	Description
1	Safety Door
2	Safety Guard Bracket
3	Top Roller Bracket
4	Top Roller
5	Bottom Roller
6	¹ / ₂ x 3 Bolt
7	3/8 x 3 Bolt
8	3/8 x 1 ½ Bolt
9	Hoop Lock

Tube – Line 5500 X 2 Ram Cylinder Support



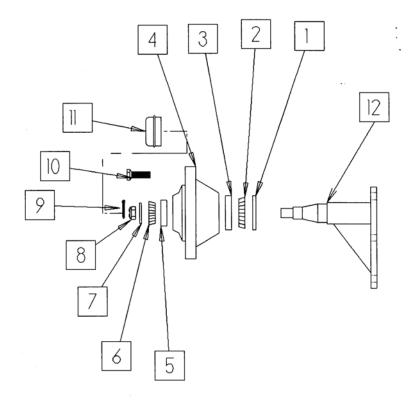
Item #	Description	
1	Right Support Bracket	
2	Left Support Bracket	
3	Right Cylinder Clamp	
4	Left Cylinder Clamp	
5	Cylinder Support	
6	5/16 x 1 ¼ Bolt	
7	3/8 x 3 Bolt	
8	3/8 x 1 Bolt	
9	¹ / ₂ x 3 Bolt	





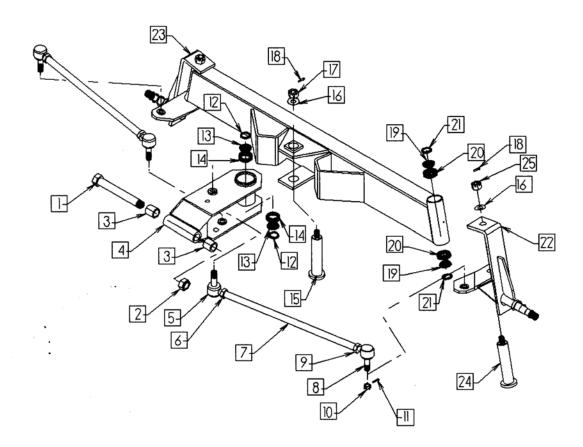
Item #	Description	Item #	Description
1	Drive Base	11	Check Valve (manual only)
2	Hydraulic Motor	12	Wheel Washer
3	Wheel Hub	13	¹ / ₄ x 1 Bolt c/w Lockwasher
4	Drive Wheel	14	Relief Valve (manual only)
5	¹ / ₂ x 3 UNF Bolt	15	Wheel Tensioner Spring
6	¹ / ₂ Wheel Nut	16	Spring Tensioner Bolt
7	5/8 x 1 ½ Bolt	17	¹ / ₂ Nuts
8	5/8 Locknut	18	Drive Base Mount
9	3/8 x ³ / ₄ Bolt	19	3/8 x 1 ½ Bolt
10	3/8 Lockwasher		

Tube Line 5500 X 2 Axle / Spindle / Hub

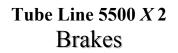


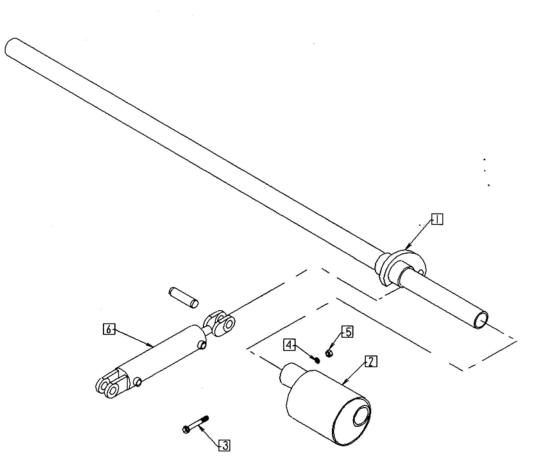
Item #	Description	
1	Seal	
2	Inner Bearing	
3	Inner Bearing Race	
4	Hub	
5	Outer Bearing Race	
6	Outer Bearing	
7	Flat Washer	
8	Wheel Nut	
9	Cotter Pin	
10	Wheel Stud	
11	Dust Cap	
12	Spindle	

Tube Line 5500 X 2 Front Axle



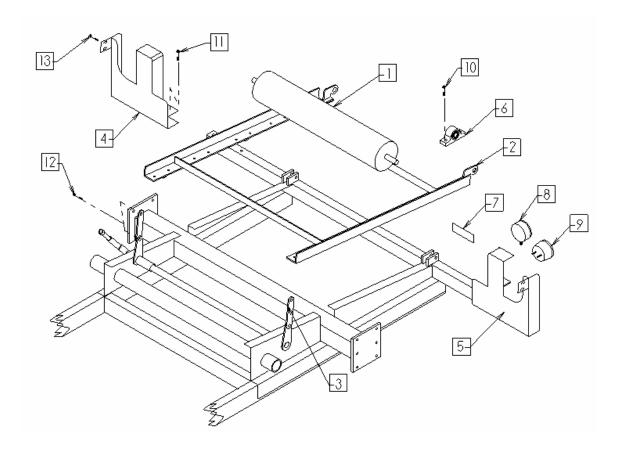
Item #	Description	Item #	Description
1	7/8 x 8 Bolt	13	Tongue Bracket Timkin Bearing
2	7/8 Locknut	14	Tongue Bracket Timkin Cup
3	Tongue Bracket Bushing	15	Tongue Bracket Pin
4	Tongue Bracket Assy	16	13/16 Flatwasher
5	Tie Rod End Right Thread	17	Tongue Bracket Nut
6	³ / ₄ Jam Nut (NF RH)	18	3/16 x 2 Cotter Pin
7	Tie Rod	19	Spindle Bearing Timkin Cone
8	Tie Rod End Left Thread	20	Spindle Bearing Timkin Cup
9	³ / ₄ Jam Nut (NF LH)	21	Spindle Bearing Seal
10	9/16 NF Slotted Hex Nut	22	Left Side Spindle Assy
11	1/8 Cotter Pin	23	Right Side Spindle Assy
12	Tongue Bracket Seal	24	Spindle Pin





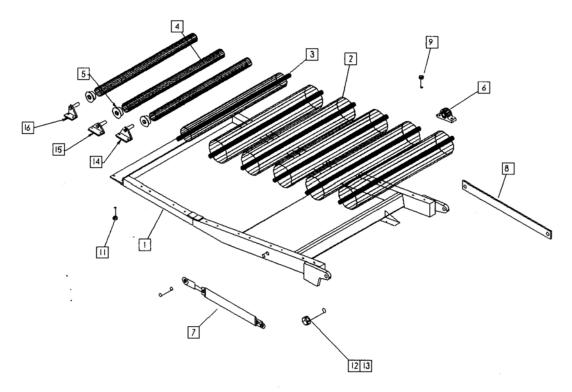
Item #	Description
1	Rocker Tube
2	Brake Eccentric
3	¹ / ₂ x3 ¹ / ₂ Bolt
4	Lockwasher
5	¹ / ₂ Nut
6	2 ¹ / ₂ x 8 Hydraulic Cylinder

Tube – Line 5500 X 2 Rear Roller



Item #	Description	Item #	Description
1	Large Roller	8	Amber Light
2	Riser Frame	9	Red Light
3	Riser Link	10	3/8 x 1 ½ Bolt
4	Right Light Bracket	11	3/8 x 4 Bolt
5	Left Light Bracket	12	5/8 x 2 Bolt
6	Bearing	13	3/8 x 1 ½ Bolt
7	Red Reflector		

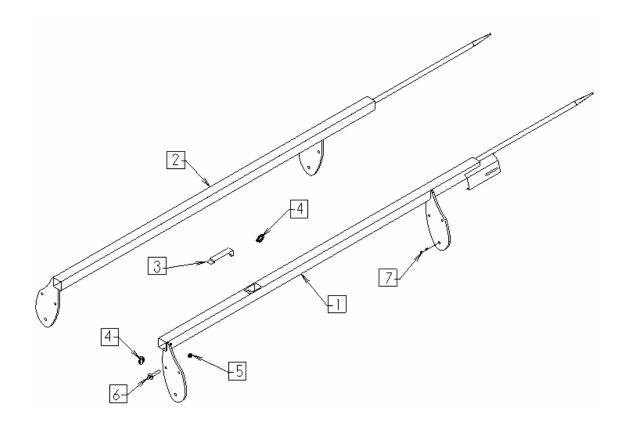
Tube Line 5500 X 2 Tail



Item #	Description
1	Tail Base
2	Large Roller
3	4" Roller
4	Small Roller
5	³ / ₄ " Bearing
6	1" Bearing
7	3 x 12 Hydraulic Cylinder
8	Tail Tie Bar
9	3/8 x 1 ½ Bolt
11	5/16 x 1 ½ Bolt
12	1 x 4 Bolt
13	1" Nylocknut
14	1 st Small Roller Bracket
15	2 nd Small Roller Bracket
16	3 rd Small Roller Bracket Right
17	3 rd Small Roller Bracket Left



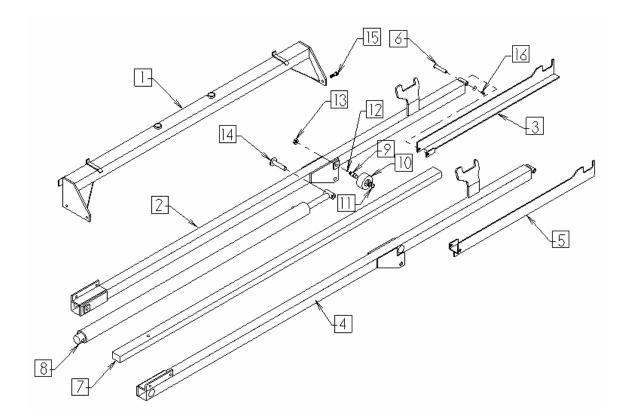
Tube – Line 5500 X 2 Bale Saddle



Item #	Description
1	Left Bale Guide
2	Right Bale Guide
3	Bale Trigger Plate
4	Lynch Pin
5	Grommet
6	¹ / ₂ Pin
7	¹ / ₂ x 2 Bolt

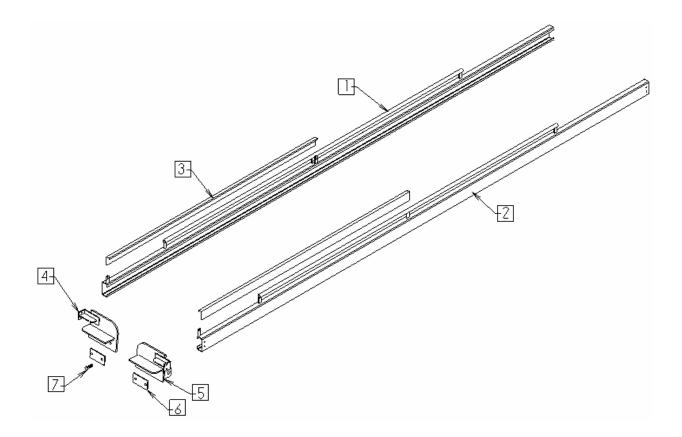


Tube – Line 5500 X 2 Bale Ram



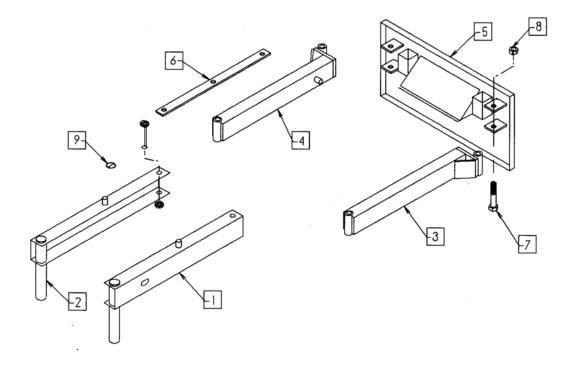
Item #	Description	Item #	Description
1	Front Ram Member	9	Ram Axle
2	Right Ram Tube	10	Ram Roller
3	Right Push-off Arm	11	Snap Ring
4	Left Ram Tube	12	Grease Fitting
5	Left Push-off Arm	13	³ / ₄ UNF Nut
6	Push-off Arm Pivot Pin	14	Cylinder Pin
7	Push-off Cross Tube	15	5/8 x 1 ½ #5 Bolt
8	Ram Cylinder	16	3/8 x ³ / ₄ Bolt

Tube – Line 5500 X 2 Side Rail



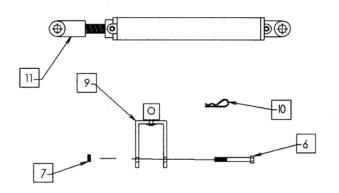
Item #	Description
1	Right Side Rail
2	Left Side Rail
3	Guard
4	Right Front Cylinder Mount
5	Left Front Cylinder Mount
6	Reinforcing Plate
7	5/8 x 1 ½ UNF Bolt

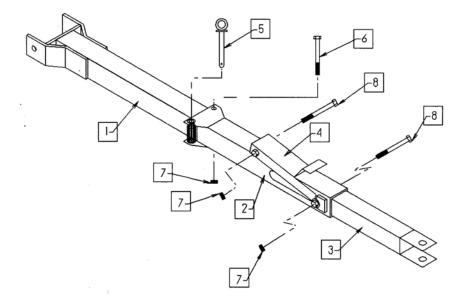
Tube Line 5500 X 2 Push Off



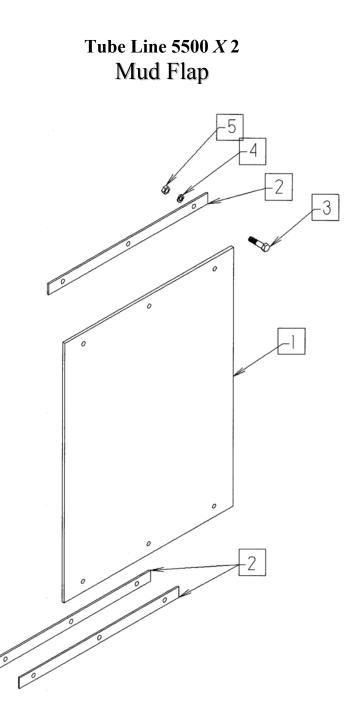
Item #	Description
1	Left Front Arm
2	Right Front Arm
3	Left Rear Arm
4	Right Rear Arm
5	Push Plate
6	X Bar
7	³ / ₄ x 5 Bolt
8	³ / ₄ Locknut
9	3/16 Linch Pin

Tube – Line 5500 X 2 Tongue



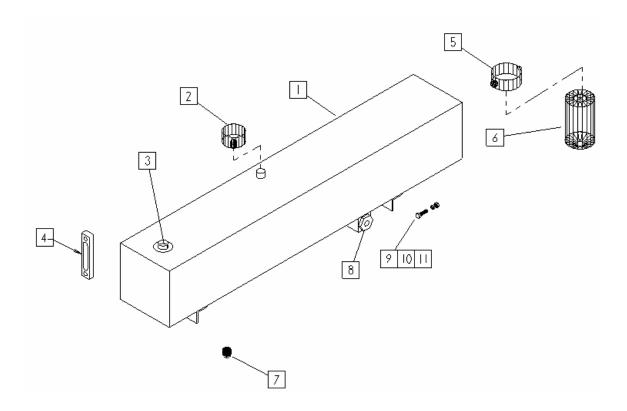


Item #	Description	Item #	Description
1	Main Tongue	7	5/8 Locknut
2	Swinging Tongue	8	5/8 x 4 ½ Bolt
3	Sliding Tongue	9	Tongue Holder
4	Tongue Latch	10	Hair Pin
5	Tongue Pin	11	2 x 16 Hydraulic Cylinder
6	5/8 x 5 Bolt		



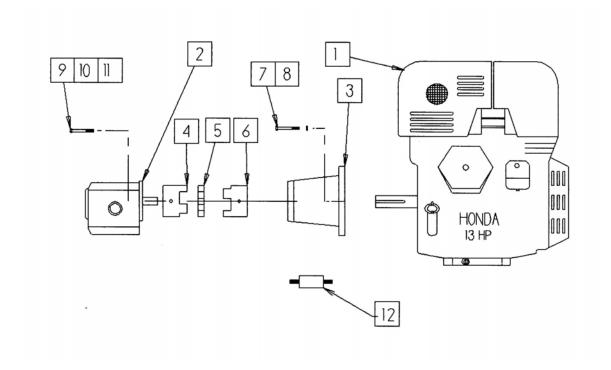
Item #	Description
1	Mud Flap
2	Metal Strip
3	Bolt
4	Lockwasher
5	Nut

Tube – Line 5500 X 2 Hydraulic Tank



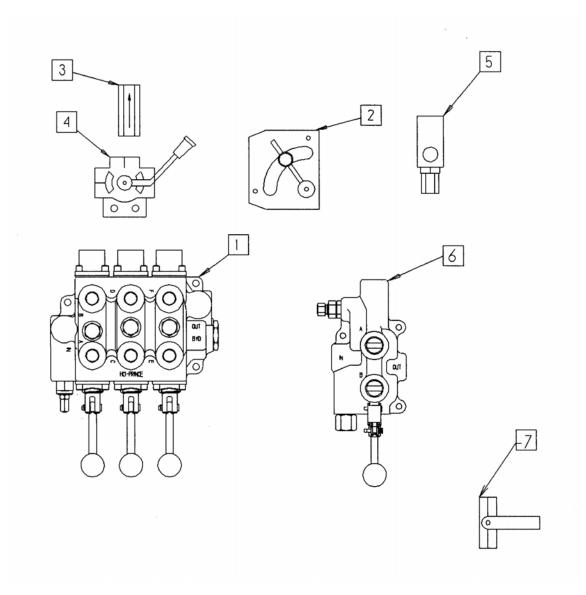
Item #	Description	Filter	Cross Ref
1	Hydraulic Tank	Stauf	SF6520
2	Breather Cap	Gresen	F22001
3	Filler Plug (1 1/4 pipe)	Fram	P1653-A
4	Sight Gauge	Fleetguard	HF6510
5	Filter Base	Cross	1A9021
6	10 micron Filter		
7	Magnetic Plug		
8	Suction Strainer		
9	3/8 x 1 Bolt		
10	3/8 Lockwasher		
11	3/8 Nut		

Tube Line 5500 X2 Pump / Motor



Item #	Description	Item #	Description
1	13 HP Honda Engine	7	3/8 x 1 Bolt
2	Hydraulic Pump	8	3/8 Lockwasher
3	Engine – Pump Adaptor	9	3/8 x 1 ¼ Bolt
4	Love Joy Coupling (pump)	10	3/8 Lockwasher
5	Coupling Spacer	11	3/8 Flatwasher
6	Love Joy Coupling (engine)	12	Fuel Filter

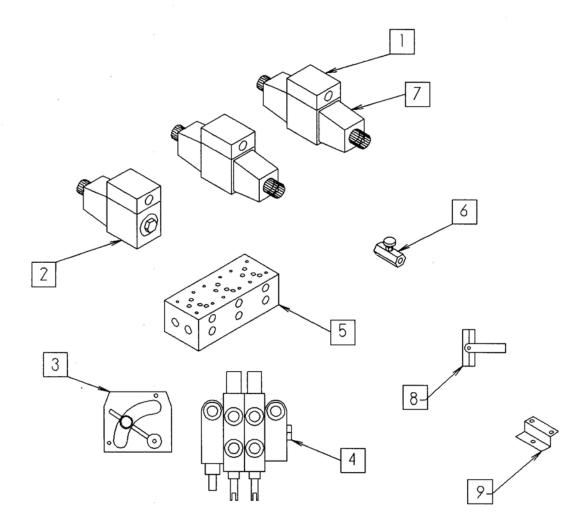
Tube Line 5500 X 2 Manual Valve Bank



Item #	Description
1	RD5300 Valve
2	RD- 150 –08 Flow Control
3	1/2 " Check Valve
4	Selector Valve
5	Relief Valve
6	LS3010-1 Valve
7	Ball Valve

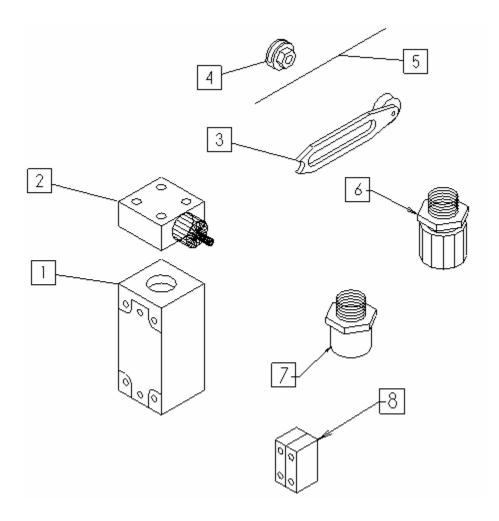


Tube Line 5500 X 2 Automatic Valve Bank

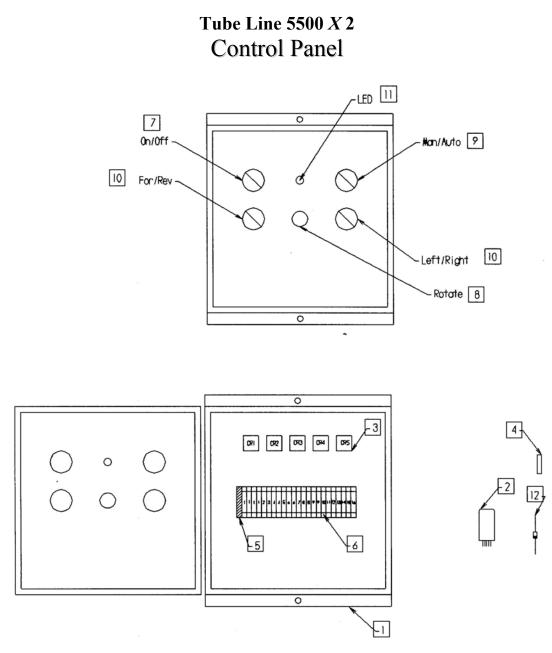


Item #	Description
1	Tandem Center 12 volt DC Valve
2	Single 12 volt DC Valve
3	RD-150- 08 Flow Control
4	2 Spool Mono Block Valve
5	3 Station Manifold
6	Steering Speed Control Valve
7	Valve Coil
8	Ball Valve
9	Manifold Mount

Tube Line 5500 X 2 Limit Switch



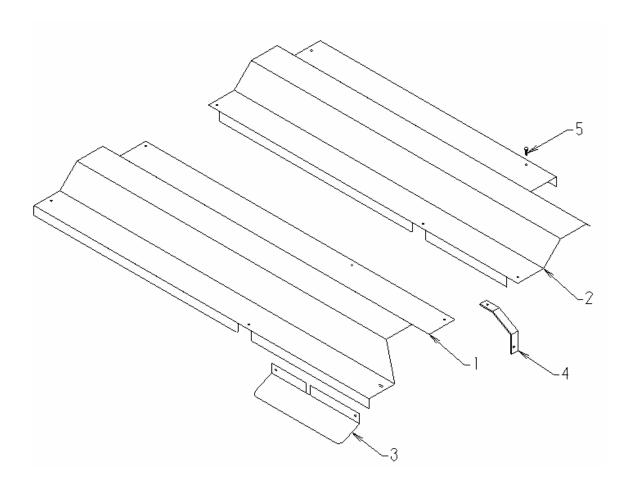
Item #	Description
1	Body
2	Actuator
3	Arm
4	Wire Clamp
5	Wire Arm
6	PVC Box Connector
7	Metric to pipe Adaptor
8	Contact Block



On / Off switch is also the Engine STOP

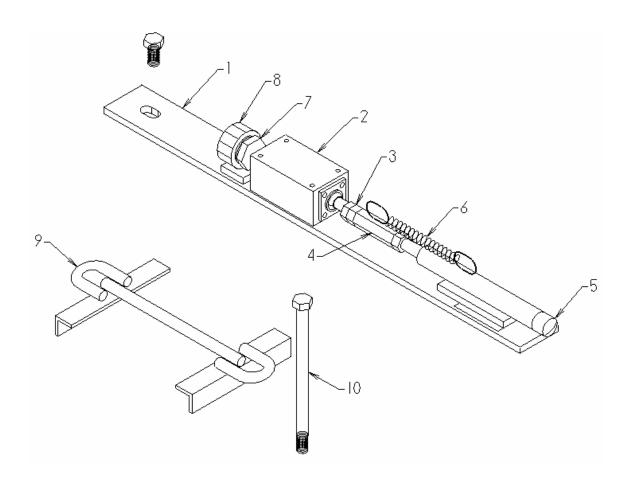
Item #	Description	Item #	Description
1	Control Panel Assy	7	On /Off Switch
2	Control Relay	8	Rotate Switch (push button)
3	11 Pin Base	9	Man/Auto Switch (dial type)
4	15 Amp Fuse	10	Ram & Steering (dial type)
5	DIN Rail Fuse Holder	11	LED
6	DIN Rail Terminal Block	12	Diode

Tube – Line 5500 X 2 Fender



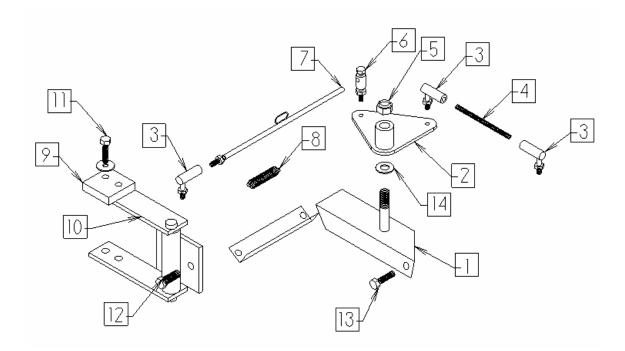
Item #	Description
1	Left Fender
2	Right Fender
3	Engine Shield
4	Rear Bracket
5	3/8 x 1 Bolt

Tube – Line 5500 X 2 Bale Switch



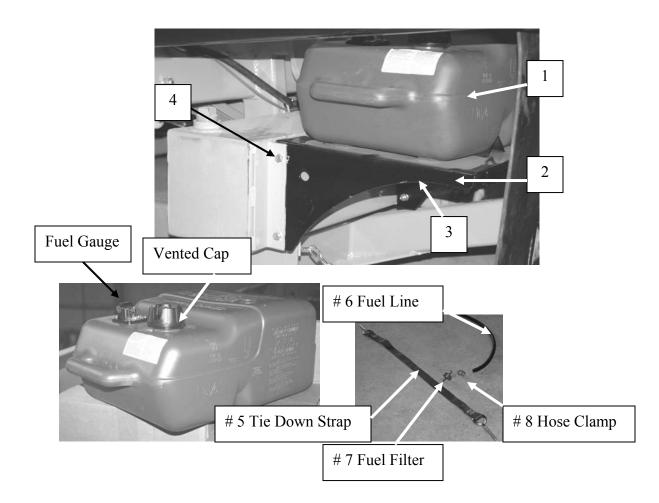
Item #	Description	
1	Switch Base	
2	Switch	
3	3/8 x 1 Bolt	
4	3/8 Coupling Nut	
5	Push Rod	
6	Spring	
7	Adaptor metric to inch	
8	Wire Clamp	
9	Battery Hold – Down	
10	Battery Bolts	

Tube – Line 5500 X 2 Throttle



Item #	Description	Item #	Description
1	Engine Bracket	8	Spring
2	Swing Link	9	Striker Block
3	Ball Joint	10	Main Link
4	¹ / ₄ UNF Rod	11	5/16 x 1 ½ Bolt
5	¹ / ₂ Locknut	12	3/8 x 1 ½ Bolt
6	Linkage Pivot	13	5/16 x 1 Bolt
7	Control Rod	14	¹ / ₂ SAE Washer

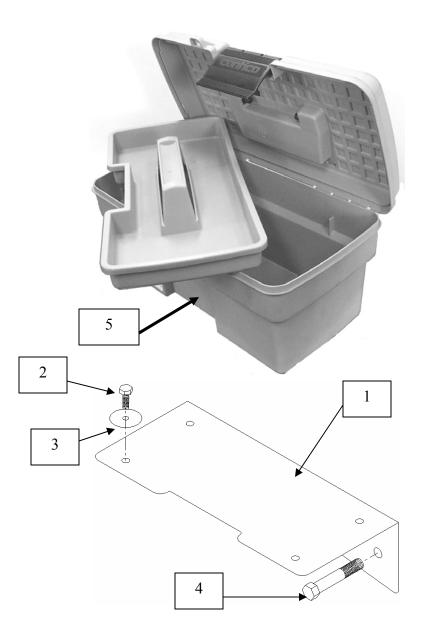
Tubeline 5500 X2 Fuel Tank / Mount



Item #	Description
1	Fuel Tank
2	Fuel Tank Bracket
3	Grommet
4	3/8 x 1 Bolt
5	Tie Down Strap
6	Fuel Line
7	Fuel Filter
8	Hose clamp

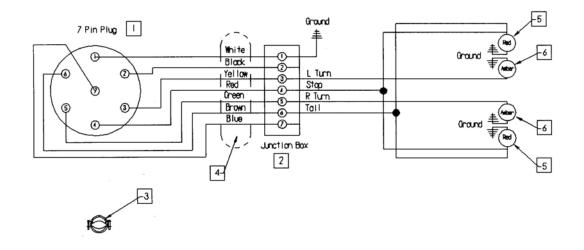
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Contents Parts 9.5
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Tube Line 5500 X 2 Tool Box



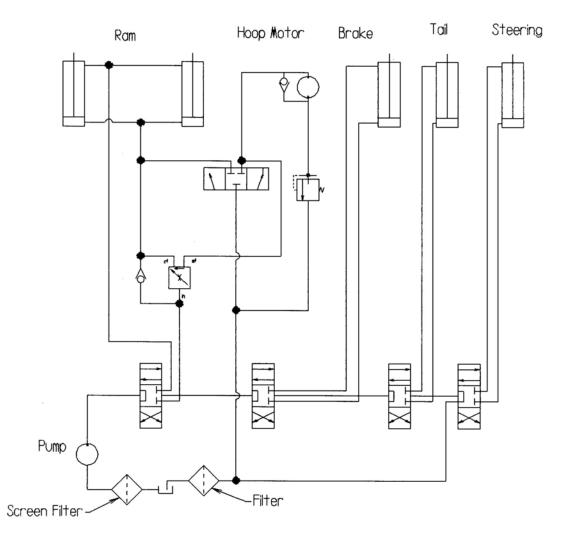
Item #	Description	Item #	Description
1	Mounting Bracket	4	3/8 x 2 ¹ / ₂ Hex Bolt – Nut / Lockwasher
2	¹ / ₄ x 1 Hex Bolt – Locknut	5	Tool Box with Tray
3	Large dia.Washer		

Tube Line 5500 X 2 Running Lights

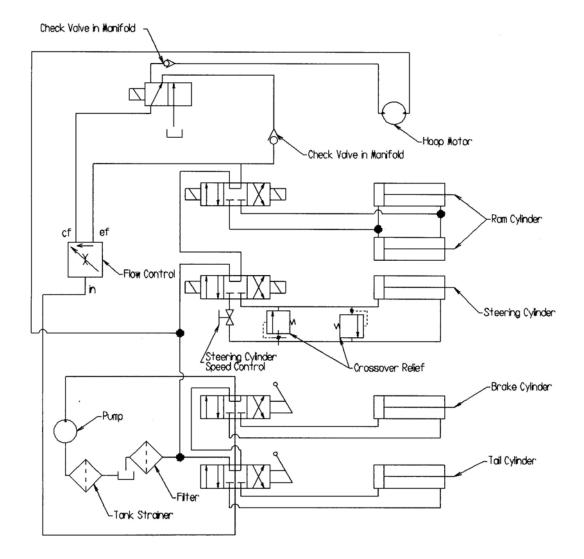


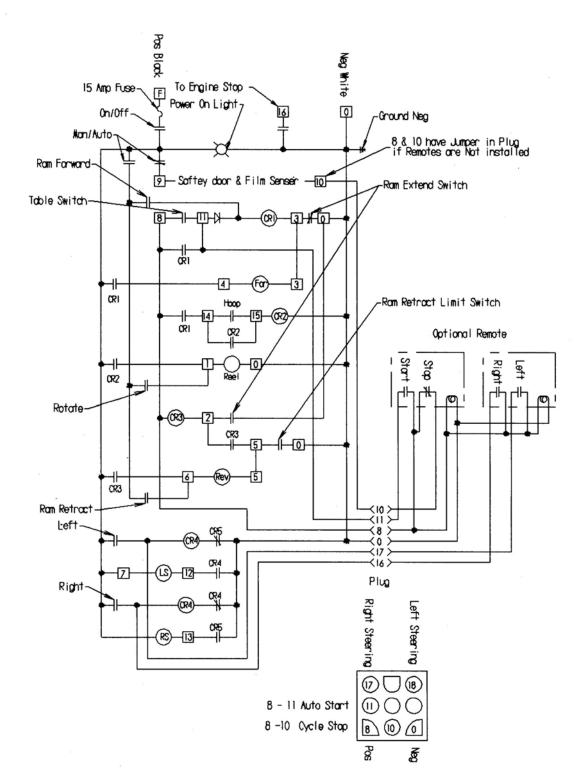
Item #	Description
1	7 Pin Plug
2	Junction Box
3	Strain Relief
4	7 Wire Conductor
5	Red Lamp
6	Amber Lamp

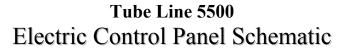
Tube Line 5500 X 2 Manual Hydraulic Schematic



Tube Line 5500 X 2 Electric Hydraulic Schematic







Tube-Line 5500 X 2 Manual Hydraulic Sequence of Operation

- 1 With valves in neutral position, engine running hydraulic fluid is pumped through valve bank and returned to reservoir.
- 2 Brakes, tail and steering are standard hydraulic cylinder operation.
- Wrap cycle push wrap valve in, detent will hold valve in position, fluid flows from valve through flowcontrol and is split into 2 circuits, one circuit will go to ram cylinders and the other will go to hydraulic motor. These circuits are proportioned with the lever on flowcontrol valve. With the selector valve handle in "Both" position flow will go to cylinder and motor. By changing flowcontrol handle, the cylinders will speed up or slow down accordingly. At the same time motor will change speed inversely to cylinder ie. When cylinder slows down motor will speed up.
- 4 Selector valve is used to bleed either cylinder or motor flow back to tank, or block both circuits causing both cylinder and motor to operate. Ie. With handle in wrap only position the fluid that would normally go to the cylinder will flow back to tank. With handle in ram only position motor fluid will go to tank.
- 5 Wrap cycle pull wrap valve out, detent will hold valve in position, fluid will flow from valve port causing cylinder to retract. Fluid from other end of cylinder will return through check valve, at flowcontrol back through valve stack and to tank.
- 6 Check valve at motor lets motor freewheel in one direction without cavitating. Relief valve at motor return acts as a restrictor valve to keep motor from turning when ram cylinder is retracting.

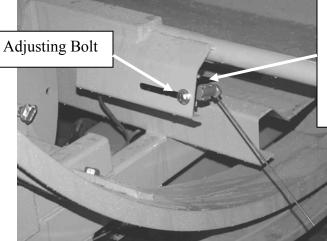
Tube-Line 5500 X 2

Electric Hydraulic Sequence of operation

- 1 With valves in neutral position, control panel on/off switch in off position, engine running fluid is pumped through valve stack and returned to reservoir.
- 2 Brakes and tail are standard hydraulic cylinder operation.
- 3 Wrap cycle fluid flows from power beyond port on 2 spool valve to flowcontrol, and is split into 2 circuits one circuit goes to double solenoid valve for ram cylinder, the other circuit goes to single solenoid valve for hydraulic motor. By moving flowcontrol handle more or less fluid will flow to cylinder or motor ie. As more fluid flows to cylinder less fluid will flow to motor and vise-versa.
- Electric control panel- "Man-Auto" switch turned to "Man". Turn "On/Off" switch to On, then red LED will light up indicating 12V power is at control circuits, with engine running. Turn "Forward" switch in to energize solenoid A on double solenoid valve. Ram cylinder will extend. Turn "Reverse" switch to energize solenoid B on same valve. Ram cylinder will retract. Push Rotate button in and hydraulic motor will turn. "For/Rev and Push" buttons have to be held to operate, by releasing them action will stop. Engine throttle has linkage to slow engine down when ram is all the way to the front. Spring on linkage will speed engine up as soon as Ram cylinder starts to extend.
- 5 When "Man/Auto" switch is turned to Auto, "For/Rev and Rotate" switches no longer function. Depress trigger switch located on bale table, Ram hydraulic valve is energized. The ram cylinder will extend and engine will speed up. When ram extends to front slider switch, this switch will energize the single solenoid valve and turning the wrap motor. When ram is extended to the limit switch at the end of stroke, single solenoid valve and double solenoid valve "A" will turn off. Solenoid B will energize causing ram cylinder to retract until it trips limit switch at the front end of bale table, solenoid "B" will turn off, the ram cylinder will stop and engine will idle down.
- 6 Steering is done by steering switch, right/left activating steering double solenoid valve A or B. This valve will work in either manual or automatic mode.

<u>Contents</u>

Tube - Line 5500 X 2 Film Sensor



Wire should stick through and touch the top of bracket to keep the other end from dropping down too far and interfering with the film rolls. End of the wire may be bent to allow switch to open

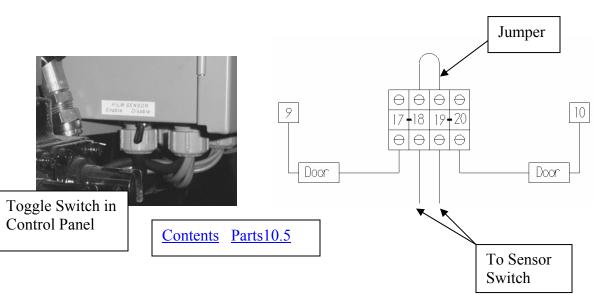
Installation

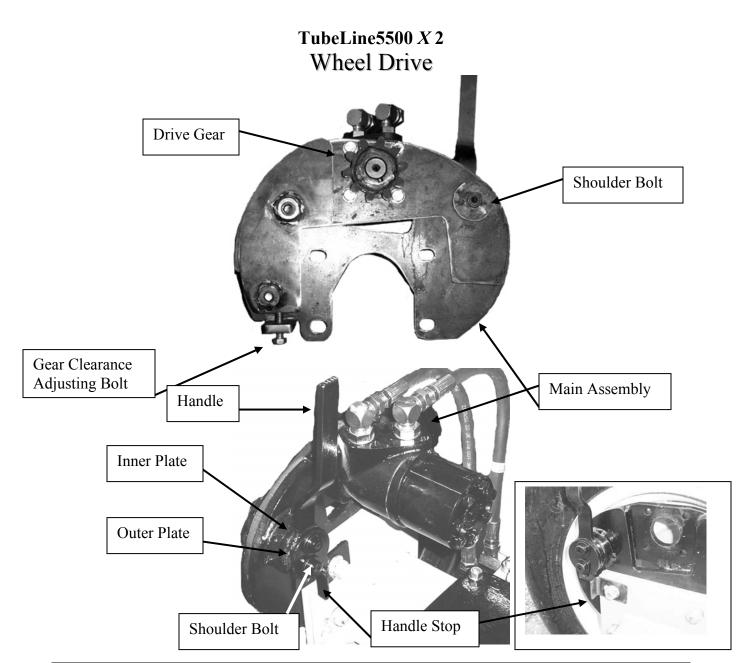
This machine is pre-wired for a film switch. To install, locate 2-wire plug on the end of a wire that is located close to the rear left pivot on the Bale Saddle.

Remove the plug and plug film switch onto it.

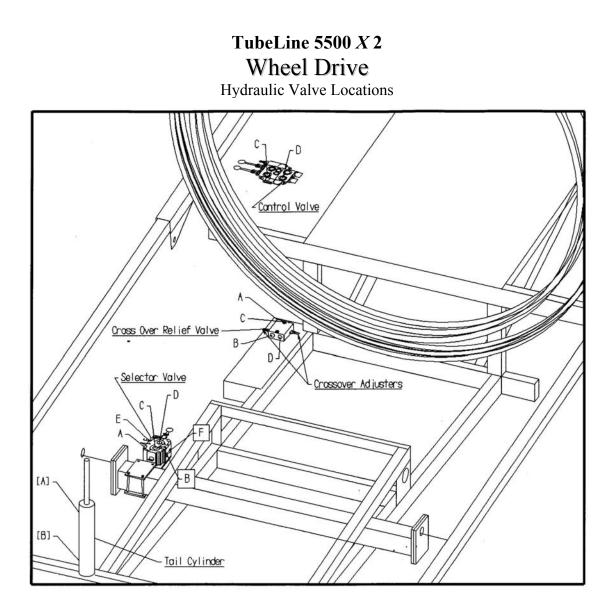
Install toggle switch into the bottom of the control panel as shown. Remove JUMPER wire and wire toggle switch in where the jumper was. <u>The wires are not polarity</u> <u>sensitive.</u> With this switch the sensor can be disabled in the "auto" position.

Notice: in "man" the sensor and the safety doors <u>Do not</u> work. Adjust the wire arm with no plastic in the machine. Make sure the wire does not interfere with the plastic roll assy. When plastic is in the machine it will hold the wire up, causing the switch to close. Make the switch closes with the wire parallel with the bale spears. Wire can be <u>shortened</u> to suit your needs. The switch bracket can be adjusted back and forth so only one layer of plastic holds the wire up, if more then one layer contacts the wire then the unbroken roll of plastic will hold the switch up and defeating the sensor.





Handle Update kit	Item #	Description	Part #
#550-203-242	1	Rim with Gear (not shown)	550-200-134
Consists of	2	Main Assembly	550-200-135
2 pc c/w SAE Washer	3	Shoulder Bolt	550-200-136
	4	Gear	550-203-237
	5	Motor	550-200-138
1 pc	6	Handle	550-203-240
1 pc	7	Inner Plate	550-203-238
1 pc	8	Outer Plate	550-203-239
1 pc	9	Handle Stop	500-203-241



Item #	Description	
1	Crossover Relief Valve	
2	Selector Valve	
3	Selector Valve Mount	
4	Mount Clamp	



Wheel Motor Hydraulics

Remove wheel from Rear left hub, and unbolt the spindle assy.

Mount the hydraulic motor assy on the outside of spindle bracket with the longer 1/2 bolts.

Install the new rim with gear welded on the inside.

After rim is installed adjust gear so that the backlash is at a minimum but allowing the gear to turn freely.

To do this engage handle to top, loosen bolts A and move plate up or down by adjusting height bolt and retighten bolts.

After adjustment is OK, lock height adjustor bolt with jam nut.

Mount crossover relief valve on base of hoop wheel motor bracket with 2 pc 5/16 bolts.

Ports A and C should be facing to the front.

Mount selector value on $\frac{1}{4} \times 4 \frac{1}{4}$ plate with 2 pc 3/8 bolts.

Fasten selector valve bracket on bottom of axle beam with smaller plate on top of axle and bolt with long 3/8 bolts through plates. Clamping assy. On to axle.

Remove Hydraulic lines from port C and D on control valve.

Install 3/8 in. line x 84 from port D on control valve to port A on Crossover relief valve. Install 3/8 in. line x 84 from port C on control valve to port C on Crossover relief valve.

Install 3/8 in. line x 60 from port B on crossover valve to port D on Selector Valve.

Install 3/8 in. line x 60 from port D on crossover valve to port C on selector valve

Install 3/8 in. line x 14 from port E on selector vale to Bottom port on Motor.

Install 3/8 in. line x 14 from port A on selector valve to Top port on Motor.

Install ¹/₄ in. line x 64 from port F on selector valve to Bottom port on Tail Cylinder.

Install ¹/₄ in. line x 64 from port B on selector valve to Top port on Tail Cylinder.

DO NOT ADJUST RELIEF VALVE - Preset at factory 1700 psi

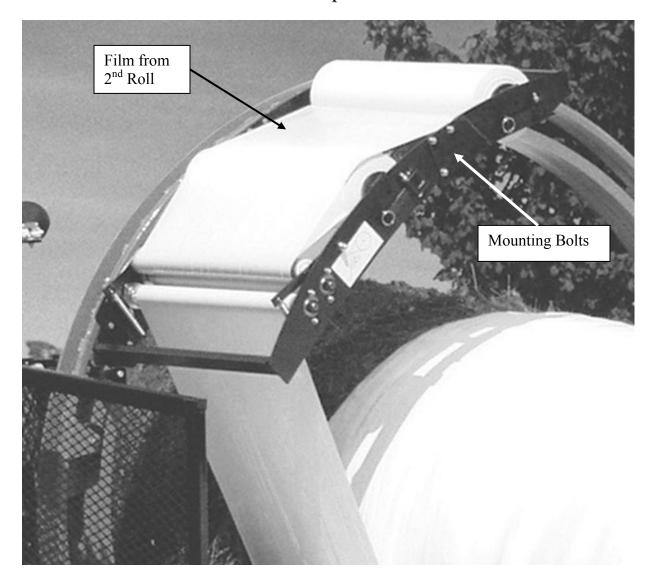
To Use The Wheel

-The control valve that is used to raise and lower the tail will now also be used to drive the wheel through the selector valve. By shifting the selector valve you can select between the wheel motor and tail cylinder. -By leaving selector valve in tail position crossover valve will function somewhat as a float valve.

-To engage the wheel motor, swing the handle beside the motor all the way up to the top position until the handle slides down behind handle stop.

Notice: Do not force the handle. If the gears do not mesh, try to turn the small gear a little bit with the hydraulic valve and try again. -To disengage pull lock pin out (<u>if used</u>) and swing handle all the way down.

Coat Motor Gear Lightly with grease before installing TubeLine 5500 X 2 Twin Wrap Kit



Note

The film from the 2nd roll goes over top of the first roll and through the tension rolls together with the first film from the first roll.

Item #	Description
1	Twin Wrap Frame
2	Plastic Wrap Spool
3	$3/8 \ge 1$ Bolts, nut lockwasher
4	Spool Holder

TubeLine

Model TL5500 X2 & TL6500 X2

Re: Mounting Accessories (year 2003)

Remote Package consists of Pause -Cycle stop, Start - start wrap cycle,

Steering – Right/Left

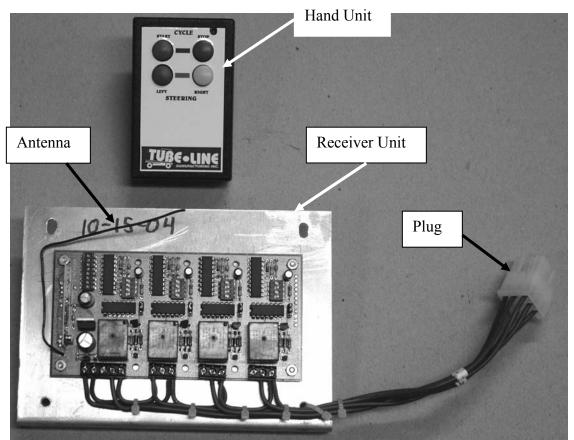
1: Installing Remote Package

Bolt receiver assembly to inside rear right of control box with connector plug at bottom <u>Remove the jumper between term #8 and #10</u>. Plug the connector together at the bottom of the panel. Notice

Antenna wire stays inside the control box

2: To frequency has been preset at the factory. If in the event that another machine would be in close proximity to this machine, there is a slight chance that the frequencies will interfere with each other. The frequencies can be changed by removing the receiver from the control panel and changing the DIP switches on the channels. The hand unit will also have to have the switches set the same as the receiver.

3: When using the remote start of ram, unplug the wire from the switch at the table trigger to disable the switch. Secure the end of wire somewhere so it does not get tangled in the steering of the wrapper, make sure the plug will not short out to the frame.

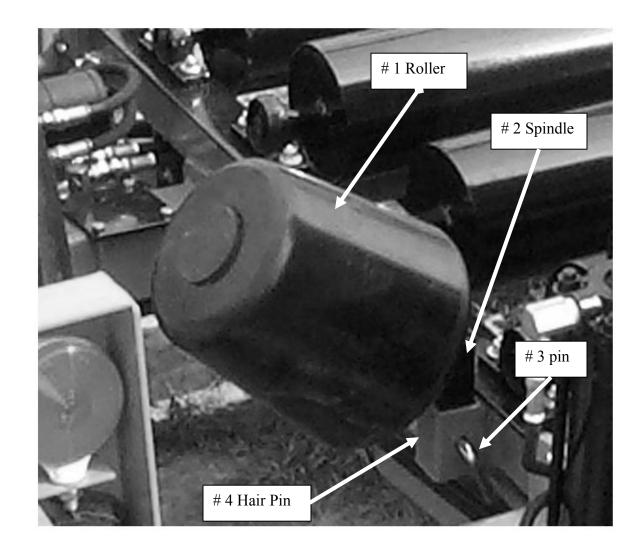


TubeLine 5500 *X* **2**



Guide Roller Kit

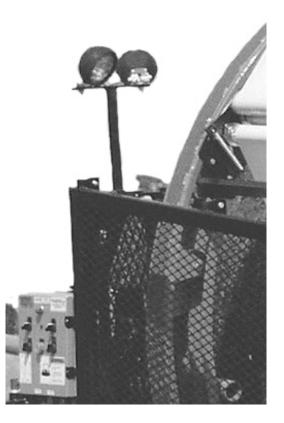
Kit consists of two rollers and are used on the lower side to keep the bales from rolling off to one side.



Item #	Description
1	Roller
2	Spindle
3	Pin
4	Hair Pin

Contents Parts 11.5

Tube Line 5500 X 2 Lights



The light brackets can be mounted on top of side guards as shown.

Light package consists of 3 lights and one on/off toggle switch.

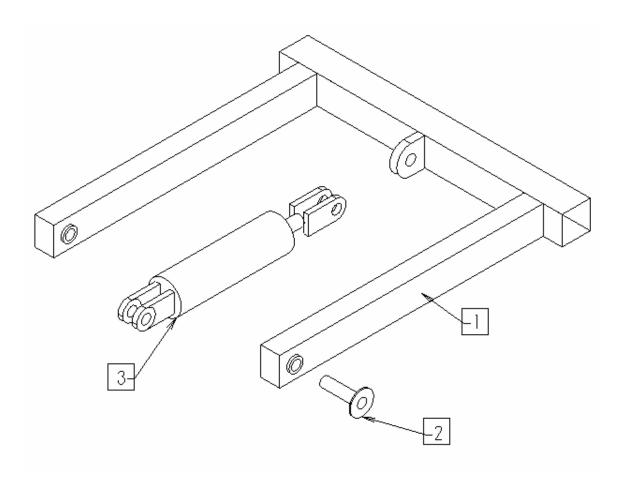
Usually the lights are mounted with 2 lights facing to the rear and 1 facing to the front. The toggle switch can be mounted by drilling a $\frac{1}{2}$ " hole into the side of the control panel,

be careful that you don't damage wires on the inside. Install the switch, and wire it into the bottom of fuse block with inline fuse. This way lights are fused separate from wrapper controls.

The engine has an 18 Amp charging system and should keep the battery charged. Note: the engine only charges 18 amp when running at high speed; at an idle it charges very little. With the lights on an the engine not revved up, over a period of time the battery will slowly discharge.

Contents Parts 11.5

Tube – Line 5500 X 2 Leveler



Item #	Description
1	Main Stand
2	Pivot Pin
3	3 ¹ / ₂ x 8 Cylinder

Contents Parts 11.5

HoopHoopParts 1181 $550-100-001$ 1Hoop Outer Ring182 $550-100-002$ 1Hoop Inner Ring183 $550-200-116$ 2Mounting Bolt $5/8 x 2$ 184 $599-100-004$ 2 $5/8$ Nut185 $599-100-005$ 2 $5/8$ Lockwasher186 $599-100-003$ 2Mounting Bolt $5/8 x 3 1/2$ Hoop Wheels191 $500-200-014$ 84'' Wheel192 $500-100-015$ 8Axle Bolt \ Locknut193 $550-200-016$ 8SpannerPlastic Wrap Carrier20 $550-100-072$ Complete Main Wrap Assembly201 $550-100-089$ 2Main Wrap Bracket201A $550-200-090$ 2Main Wrap Side Insert202 $550-100-005$ 4 $1-14$ UNF Castellated nut203 $550-100-006$ 4Tensioner Roller204 $550-100-007$ 8 $3/4$ Flange Bearing205 $550-100-007$ 2Small Gear206 $550-100-010$ 2Gear Cover208 $550-200-115$ 2Spool Holder2010 $550-100-013$ 8 $5/8$ Flatwasher2010 $550-100-014$ 4 $5/8$ Nylocknut2013 $500-100-021$ 4Plastic Bearing2014 $500-100-017$ 4Spacer </th <th>Page #</th> <th>Ref#</th> <th>Part #</th> <th>Qty</th> <th>Description</th>	Page #	Ref#	Part #	Qty	Description
18 2 550-100-002 1 Hoop Inner Ring 18 3 550-200-116 2 Mounting Bolt 5/8 x 2 18 4 599-100-004 2 5/8 Nut 18 5 599-100-003 2 Mounting Bolt 5/8 x 3 1/2 18 6 599-100-015 2 5/8 Lockwasher 18 6 599-100-015 8 Axle Bolt \ Locknut 19 1 500-200-014 8 4" Wheel 19 2 500-100-015 8 Axle Bolt \ Locknut 19 3 550-200-016 8 Spanner Plastic Wrap Carrier 20 550-100-072 Complete Main Wrap Assembly 20 1 550-200-090 2 Main Wrap Bracket 20 1 550-100-005 4 1-14 UNF Castellated nut 20 2 550-100-006 4 Tensioner Roller 20 4 550-100-008 2 Small Gear 20 5 550-100-010 2 Gear Cover 20 6 <t< th=""><th><u>Hoop</u></th><th></th><th>Hoop</th><th></th><th>Parts 1</th></t<>	<u>Hoop</u>		Hoop		Parts 1
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184599-100-0042 $5/8$ Nut185599-100-0032Mounting Bolt 5/8 x 3 1/2186599-100-0032Mounting Bolt 5/8 x 3 1/2191500-200-01484" Wheel192500-100-0158Axle Bolt \ Locknut193550-200-0168SpannerPlastic Wrap Carrier20550-100-072Complete Main Wrap Assembly201550-100-0892Main Wrap Bracket202550-100-00541-14 UNF Castellated nut203550-100-00541-14 UNF Castellated nut203550-100-0064Tensioner Roller204550-100-00783/4 Flange Bearing205550-100-0082Small Gear206550-100-0082Small Gear206550-100-0092Large Gear207550-100-0102Gear Cover208550-200-1152Spool Holder209550-200-1152Spool Holder2010550-100-01385/8 Flatwasher2011550-100-01385/8 Flatwasher2013500-100-0214Plastic Bearing2014500-100-01445/8 Nylocknut2015550-100-0164Bracket2016550-100-0174Spacer <td>18</td> <td>2</td> <td>550-100-002</td> <td>1</td> <td>Hoop Inner Ring</td>	18	2	550-100-002	1	Hoop Inner Ring
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20 20 550-100-019 16 5/16 Carriage Bolt	20	18	550-100-018	2	Axle Plastic Roller
	20	19	550-100-003	2	1/2 x 2 Bolt c/w Locknut
20 21 550-100-020 4 3/16 Keystock	20	20	550-100-019	16	5/16 Carriage Bolt
	20	21	550-100-020	4	3/16 Keystock
20 22 550-100-021 2 Grease Fitting	20	22	550-100-021	2	Grease Fitting
20 23 599-100-006 8 10-24 x 3/4 Machine Bolt	20	23	599-100-006	8	10-24 x 3/4 Machine Bolt
20 24 550-200-100 8 3/8 x 1 #5 bolt	20	24	550-200-100	8	3/8 x 1 #5 bolt
20 25 550-200-101 8 3/8 locknut	20	25	550-200-101	8	3/8 locknut

20	26	550-200-102	2	3/8 x 2 1/2 bolt
20	27	550-200-103	2	Latch
20	28	550-200-104	2	3/16 lynch pin
Page #	Ref #	Part #	Qty	Description
-		Hoop Brace Assembly		Parts 2
21	1	5X2-100-100	1	Right Hoop Brace
21	2	5X2-100-101	1	Left Hoop Brace
21	3	5X2-100-102	1	Right Hoop Post
21	4	5X2-100-103	1	Left Hoop Post
21	5	599-100-104	2	Switch Adjuster Screw
21	6	5X2-100-105	1	Automatic Control Panel Mount
21	7	5X2-100-106	1	Manual Control Mount
21	8	599-100-110	4	1/2 x 4 1/2 Bolt
21	9	5X2-100-110	1	Left Bale Deflector
21	10	5X2-100-111	1	Right Bale Deflector
21	11	599-100-111	14	3/8 x 3 Bolts
		Right Safety Guard		
22	1	5X2-100-022 R	1	Right Safety Door
22	2	5X2-100-024 R	1	Right Side Safety Door Bracket
22	3	5X2-100-120	1	Top Roller Bracket
22	4	5X2-100-121	1	Top Roller
22	5	5X2-100-122	4	Bottom Roller
22	6	500-100-083	2	1/2 x 3 Bolts
22	7	599-100-111	2	3/8 x 3 Bolts
22	8	599-100-031	2	3/8 x 1 1/2 Bolts
		Left Safety Guard		
23	1	5X2-100-023 L	1	Left Safety Door
23	2	5X2-100-025 L	1	Left Side Safety Door Bracket
23	3	5X2-100-120	1	Top Roller Bracket
23	4	5X2-100-121	1	Top Roller
23	5	5X2-100-122	4	Bottom Roller
23	6	500-100-083	2	1/2 x 3 Bolts
23	7	599-100-111	2	3/8 x 3 Bolts
23	8	599-100-031	2	3/8 x 1 1/2 Bolts
23	9	550-200-050	1	Hoop Lock Pin

Page #	Ref #	Part #	Qty	Description
		Ram Cylinder Support		Parts 3
24	1	5X2-100-130	1	Right Cylinder Support Bracket
24	2	5X2-100-131	1	Left Cylinder Support Bracket
24	3	5X2-100-132	1	Right Cylinder Clamp
24	4	5X2-100-133	1	Left Cylinder Clamp
24	5	550-200-109	2	Cylinder Support Block
24	6	5X2-100-134	2	5/16 x 1 1/4 Bolt
24	7	599-100-111	2	3/8 x 3 Bolt
24	8	500-100-046	4	3/8 x 1 Bolt
24	9	500-100-083	4	1/2 x 3 Bolt
		Hoop Drive		
25	1	5X2-100-049	1	Drive Wheel Base
25	2	500-100-050	1	Hydraulic Motor Char Lynn 101-1005
25	3	500-100-051	1	Motor Hub
25	4	500-100-052	1	Drive Wheel
25	5	500-100-053	4	1/2 x 3 UNF Bolt
25	6	500-100-054	4	1/2 Wheel Nut
25	7	500-100-055	2	5/8 x 1 1/2 Bolt
25	8	500-100-056	2	5/8 Locknut
25	9	500-100-057	4	3/8 x 3/4 Bolt
25	10	500-100-038	4	3/8 Lockwasher
25	11	500-100-059	1	Check Valve (maual model only)
25	12	500-100-060	1	Wheel Washer
25	13	500-100-061	1	1/4 x 1 Bolt & Lockwasher
25	14	500-101-222	1	Relief Valve (manual model only)
25	15	500-101-231	1	Wheel Tensioner Spring
25	16	500-101-232	1	Spring Tensioner Bolt
25	17	500-100-076	2	1/2 Nut
25	18	5X2-100-090	1	Base Bracket
25	19	599-100-031	4	3/8 x 1 1/2 Bolt
		<u>Axle / Spindle / Hub</u>		Parts 3.5
26	1	500-100-063	4	Inner Seal
26	2	500-100-064	4	Inner Bearing
26	3	500-100-065	4	Inner Bearing Race
26	4	500-100-066	4	Hub
26	5	500-100-067	4	Outer Bearing Race
26	6	500-100-068	4	Outer Bearing
26	7	500-100-069	4	Flatwasher
26	8	500-100-070	4	Castellated Nut
26	9	500-100-071	4	Cotter Pin
26	10	500-100-072	20	Wheel Stud
26	11	500-100-073	4	Dust Cap

Page #	Ref #	Part #	Qty	Description
26	12	550-200-001	4	Rear Spindle Assy
		Front Axle		Parts 4
27	1	500-100-152	1	7/8 x 8 Bolt
27	2	500-100-153	1	7/8 Locknut
27	3	550-111-012	2	Bushing (1-1/8 x 7/8 x 1-1/2)
27	4	550-221-008	1	Tongue Bracket
27	5	550-111-006	2	Rod End R Thread
27	6	550-111-003	2	3/4 Jam Nut (NF RH)
27	7	550-221-001	2	Tie Rod
27	8	550-111-007	2	Rod End L Thread
27	9	550-111-002	2	3/4 Jam Nut (NF LH)
27	10	550-111-004	4	9/16 NF Slotted Hex Nut
27	11	550-111-005	4	1/8 x 1 Cotter Pin
27	12	550-111-011	2	Tongue Bracket Seal CR20952
27	13	550-111-010	2	Bearing Cone (13686)
27	14	550-111-009	2	Bearing Cup (13620)
27	15	550-221-013	1	Tongue Timkin Pin
27	16	550-111-014	3	13/16 Flat Washer
27	17	550-111-015	3	3/4 Slotted Hex Nut
27	18	550-111-016	3	3/16 x 2 Cotter Pin
27	19	550-200-080	4	Spindle Bearing Cone L44643
27	20	550-200-081	4	Spindle Bearing Cup L44610
27	21	550-200-082	4	Spindle Bearing Seal CR523696
27	22	550-100-083	1	Left Spindle
27	23	550-100-084	1	Right Spindle
27	24	550-100-085	2	Spindle Timkin Bolt
		Brakes		
28	1	5X2-100-028	1	Brake Rocker Tube
28	2	550-100-029	2	Brake Eccentric
28	3	500-100-113	2	1/2 x 3 1/2 Bolt
28	4	500-100-075	2	1/2 Lockwasher
28	5	500-100-076	2	1/2 Nut
28	6	500-100-082	1	2 1/2 x 8 Hydraulic Cylinder

Page #Ref #Part #QtyDescription291 $500-100-086$ 5Large Roller292 $5X2-100-007$ 1Riser Frame293 $5X2-100-030$ 2Riser Link294 $5X2-100-031$ 1Right Light Bracket295 $5X2-100-032$ 1Left Light Bracket296 $500-100-030$ 101" Bearing297 $5X2-100-033$ 2Red Reflector298 $5X2-100-034$ 2Amber Light299 $5X2-100-035$ 2Red Light299 $5X2-100-035$ 2Red Light299 $5X2-100-036$ 4 $3/8 x 1 \frac{1}{2}$ Bolt2910 $599-100-031$ 20 $3/8 x 1 \frac{1}{2}$ Bolt2911 $5X2-100-036$ 4 $3/8 x 1 \frac{1}{4}$ Bolt2912 $550-200-116$ 4 $5/8 x 2$ Bolt2913 $500-100-119$ 4 $3/8 x 1 \frac{1}{4}$ Bolt2913 $500-100-033$ 1Tail Base301 $550-100-033$ 1Tail Base302 $500-100-099$ 14" Roller305 $550-100-092$ 6 $3/4$ " Tube End Nylatron Bearing306 $550-100-036$ 121" Bearing307 $599-100-035$ 1Tail Tiebar308 $599-100-035$ 1Tail Tiebar309 $599-100-035$ 1Tail T					Parts 5
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292 $5X2-100-007$ 1Riser Frame293 $5X2-100-030$ 2Riser Link294 $5X2-100-031$ 1Right Light Bracket295 $5X2-100-032$ 1Left Light Bracket296 $500-100-030$ 101" Bearing297 $5X2-100-033$ 2Red Reflector298 $5X2-100-034$ 2Amber Light299 $5X2-100-035$ 2Red Light299 $5X2-100-035$ 2Red Light299 $5X2-100-036$ 4 $3/8 \times 1 \frac{1}{2}$ Bolt2910 $599-100-031$ 20 $3/8 \times 1 \frac{1}{2}$ Bolt2911 $5X2-100-036$ 4 $3/8 \times 1 \frac{1}{4}$ Bolt2912 $550-200-116$ 4 $5/8 \times 2$ Bolt2913 $500-100-119$ 4 $3/8 \times 1 \frac{1}{4}$ BoltTail301 $550-100-033$ 1301 $550-200-106$ 3302 $500-100-036$ 5Large Roller303 $500-100-092$ 6 $3/4$ " Tube End Nylatron Bearing306 $550-100-030$ 121" Bearing307 $599-100-035$ 1Tail Tiebar309 $599-100-035$ 1Tail Tiebar309 $599-100-037$ 4 $5/16 \times 1 1/2$ Flathead Bolt	•			-	
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30 8 599-100-035 1 Tail Tiebar 30 9 599-100-031 28 3/8 x 1 1/2 Bolt 30 11 550-100-037 4 5/16 x 1 1/2 Flathead Bolt	30	6	550-100-030	12	1" Bearing
309599-100-031283/8 x 1 1/2 Bolt3011550-100-03745/16 x 1 1/2 Flathead Bolt	30	7	599-100-107	1	3 x 12 Hydraulic Cylinder
30 11 550-100-037 4 5/16 x 1 1/2 Flathead Bolt	30	8	599-100-035	1	Tail Tiebar
	30	9	599-100-031	28	3/8 x 1 1/2 Bolt
20 12 500 100 009 2 1 4 Dolt	30	11	550-100-037	4	5/16 x 1 1/2 Flathead Bolt
JU 12 J99-100-006 2 I X 4 BOIL	30	12	599-100-008	2	1 x 4 Bolt
30 13 599-100-009 2 1" Nylocknut	30	13	599-100-009	2	1" Nylocknut
3014550-200-0022First Small Roller Bracket	30	14	550-200-002	2	First Small Roller Bracket
30 15 550-200-003 2 2 nd Small Roller Bracket	30	15	550-200-003	2	2 nd Small Roller Bracket
3016550-200-0041Last Right Roller Bracket	30	16	550-200-004	1	Last Right Roller Bracket
30 17 550-200-005 1 Last Left Roller Bracket	30	17	550-200-005	1	Last Left Roller Bracket
Bale Saddle Parts 5.5			Bale Saddle		Parts 5.5
31 1 5X2-100-140 1 Left Bale Guide	31	1	5X2-100-140	1	Left Bale Guide
31 2 5X2-100-141 1 Right Bale Guide	31	2	5X2-100-141	1	Right Bale Guide
31 3 5X2-100-142 1 Bale Trigger Plate	31	3	5X2-100-142	1	Bale Trigger Plate
31 4 550-200-108 1 3/16 Lynch Pin	31	4	550-200-108	1	3/16 Lynch Pin
31 5 5X2-100-143 1 Grommet	31	5	5X2-100-143	1	Grommet
31 6 550-200-104 4 3/16" Lynch pin	31	6	550-200-104	4	3/16" Lynch pin
31 7 500-100-008 4 1/2 x 2 Bolt	31	7	500-100-008	4	1/2 x 2 Bolt

Bale Ram Parts 6 32 1 5X2-100-150 1 Front Ram Member 32 2 5X2-100-151 1 Right Ram Tube 32 3 5X2-100-152 1 Right Push-off Arm 32 4 5X2-100-153 1 Left Ram Tube 32 5 5X2-100-153 1 Left Ram Tube 32 6 5X2-100-154 1 Left Push-off Arm 32 6 5X2-100-155 2 Push-off Arm Pivor Pin 32 7 500-100-048 1 Push-off Tube
3225X2-100-1511Right Ram Tube3235X2-100-1521Right Push-off Arm3245X2-100-1531Left Ram Tube3255X2-100-1541Left Push-off Arm3265X2-100-1552Push-off Arm Pivor Pin
32 3 5X2-100-152 1 Right Push-off Arm 32 4 5X2-100-153 1 Left Ram Tube 32 5 5X2-100-154 1 Left Push-off Arm 32 6 5X2-100-155 2 Push-off Arm Pivor Pin
32 4 5X2-100-153 1 Left Ram Tube 32 5 5X2-100-154 1 Left Push-off Arm 32 6 5X2-100-155 2 Push-off Arm Pivor Pin
32 5 5X2-100-154 1 Left Push-off Arm 32 6 5X2-100-155 2 Push-off Arm Pivor Pin
32 6 5X2-100-155 2 Push-off Arm Pivor Pin
32 7 500-100-048 1 Push-off Tube
32 8 550-100-043 2 Hydraulic Ram Cylinder
32 9 5X2-100-156 4 Ram Axle
32 10 5X2-100-157 4 Ram Roller
32 11 5X2-100-158 4 Snap Ring
32 12 5X2-100-159 4 Grease Fitting 1/4-28
32 13 5X2-100-160 4 3/4" UNF Nut
32 14 500-100-042 4 Cylinder Pin
32 15 5X2-100-161 4 5/8 x 1 1/2 UNF Bolt #5
32 16 500-100-087 2 3/8 x 3/4 Bolt
Side Rail Parts 6.5
34 1 5X2-100-170 1 Right SideRail
34 2 5X2-100-171 1 Left Side Rail
34 3 5X2-100-172 2 Guard
3445X2-100-1731Right Front CylinderMount
3455X2-100-1741Left Front CylinderMount
34 6 5X2-100-175 2 Reinforcing Plate
34 7 5X2-100-161 4 5/8 x 1 1/2 UNF Bolt #5
Push Off
35 1 5X2-100-180 1 Push Off Left Front Arm
35 2 5X2-100-181 1 Push Off Right Front Arm
35 3 5X2-100-182 1 Push Off Left Rear Arm
35 4 5X2-100-183 1 Push Off right Rear Arm
35 5 599-100-016 1 Push Plate
35 6 599-100-017 2 X Bar
35 7 599-100-018 4 3/4 x 5 Hinge Bolt
35 8 599-100-019 4 3/4 Nylocknut
35 9 550-200-104 4 3/16 Linch Pin
Tongue
36 1 550-100-051 1 Main Tongue
36 2 550-100-052 1 Swinging Tongue
36 3 550-100-053 1 Sliding Tongue
36 4 500-100-151 1 Tongue Latch
36 5 500-100-154 1 Tongue Pin
36 6 500-100-155 2 5/8 x 5 Bolt

36	7	500-100-056	4	5/8 Locknut
36	8	500-100-157	2	5/8 x 4 1/2 B
36	9	500-100-160	1	Tongue Hold
36	10	500-100-112	1	Hair Pin
36	11	500-100-103	1	2 x 16 Hydra

Page #	Ref#	Part #	Qty	Description
		<u>Mud Flap</u>		
37	1	550-100-054	2	Mud Flap
37	2	500-100-164	4	Metal Strip
37	3	500-100-165	12	5/16 x 1 Bolt
37	4	500-100-092	12	5/16 Lockwa
37	5	500-100-093	12	5/16 Nut
		Hydraulic Tank		
38	1	5X2-100-190	1	Hydraulic Ta
38	2	500-100-169	1	Breather Cap
38	3	500-100-170	1	Filler Plug 1
38	4	500-100-171	1	Sight Gauge
38	5	500-100-172	1	Filter Base
38	6	500-100-173	1	10 Micron Fi
38	7	500-100-174	1	Magnetic Dra
38	8	500-100-175	1	Suction Filte
38	9	500-100-176	4	3/8 x 1 Bolt
38	10	500-100-038	4	3/8 Lockwas
38	11	500-100-039	4	3/8 Nut
		Pump / Motor		
39	1	500-100-179	1	13 HP Honda
39	1	5X2-100-200	1	13 HP Honda
				QNR)
39	2	500-100-181	1	Hydraulic Pu
39	3	500-100-182	1	SP20A11A9 Engine – Pur
39 39	4	500-100-182	1	Love Joy Co
39 39	5	500-100-185	1	Coupling Spa
39 39	6	500-100-184	1	Love Joy Co
39 39	7	500-100-185	4	3/8 x 1 Bolt
39 39	8	500-100-038	4	3/8 Lockwas
39 39	o 9	500-100-038	4	3/8 x 1 1/4 B
39 39	9 10	500-100-038	2	3/8 X 1 1/4 B 3/8 Lockwas
	10		2	
39	11	500-100-190	Z	3/8 Flatwash

x 4 1/2 Bolt

gue Holder

6 Hydraulic Cylinder

Parts 7

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- 1/4 Pipe

Filter

rain Plug

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- la Engine (rope start QA)
- la Engine (electric start

ump Prince # HR

mp Adapter

oupling (Pump Side)

bacer

oupling (Engine Side)

sher

Bolt

sher

2 3/8 Flatwasher

Page #	Ref #	Part #	Qty	Description
		Manual Valve Bank		Parts 7.5
40	1	500-200-192	1	Prince RD532CCCAAA5A4B1
40	2	500-100-193	1	Flow Control Prince RD-150-08
40	3	500-100-194	1	1/2" Check Valve
40	4	500-100-195	1	Selector Valve
40	5	500-101-222	1	Relief Valve Prince RD18375
40	6	500-200-193	1	Prince # LS3010-1
40	7	550-200-112	1	Ball Valve
		Automatic Valve Bank		Parts 8
41	1	500-100-200	2	Continental Tandem Center 12 VDC VS12MBLGB75L
41	2	500-100-201	1	Continental Single Center 12 VDC VS12M1AGB75L
41	3	500-100-193	1	Flow Control Prince RD-150-08
41	4	550-100-055	1	2 Spool Monoblock Valve c/w Power Beyond
41	5	550-100-056	1	Triple Manifold Block
41	6	550-200-006	1	Steering Speed Control (needle valve)
41	7	550-200-007	5	12 VDC 48W Valve Coil
41	8	550-200-112	1	Ball Valve
41	9	550-200-113	2	Manifold mount
		Limit Switch		
42		550-100-060	3	Limit Switch Assembly
42	1	550-100-057	1	Limit Switch Body
42	2	550-100-058	1	Limit Switch Actuator
42	3	550-100-059	2	Limit Switch Arm
42	4	550-100-082	2	Wire Clamp
42	5	599-100-049	2	Wire Arm
42	6	550-100-086	12	PVC Box Connector
42	7	550-200-086		Metric to Pipe Adaptor
42	8	550-200-087	3	NO/NC Contact
		Control Panel		Parts 8.5
43	1	550-200-061	1	Control Panel
43	2	500-100-221	5	Control Relay
43	3	500-100-223	5	11 pin Relay Base
43	4	550-100-079	1	15 amp Fuse
43	5	550-150-083	1	Din rail Fuse Holder
43	6	550-150-084	20	Din rail Terminal Block
43	8	550-100-075	1	Panel Rotate Push Button
43	9	550-100-076	2	Panel on/off Hand/Auto Dial Switch
43	10	550-100-077	2	Panel Ram and Steering Dial Switch

43	11	550-100-078	1	LED (li	ight emittir	ng diode)
43	12	550-150-085	1	Diode	1N5406	3 amp 600 V (100

V will work)

Page #	Ref #	Part #	Qty	Description
		<u>Fender</u>		Parts 9
44	1	5X2-100-210	1	Left Fender
44	2	5X2-100-211	1	Right Fender
44	3	5X2-100-212	1	Engine Shield
44	4	5X2-100-213	1	Rear Bracket
44	5	500-100-046	2	3/8 x 1 Bolt
		Bale Switch		
45	1	5X2-100-220	1	Bale Switch Base
45	2	5X2-100-221	1	Switch
45	3	500-100-046	1	3/8 x 1 Bolt
45	4	5X2-100-222	1	3/8 Coupling Nut
45	5	5X2-100-223	1	Push Rod
45	6	500-100-062	1	Spring
45	7	550-200-086	1	Metric to Pipe Adaptor
45	8	550-100-082	1	Wire Clamp
45	9	500-100-221	1	Batery Holddown
45	10	500-100-212	1	5/16 x 7 Bolt
		<u>Throttle</u>		
46	1	599-100-067	1	Engine Throttle Bracket
46	2	5X2-100-230	1	Swing Link
46	3	550-100-065	3	Ball Joint
46	4	599-100-069	1	1/4 x 4 UNF Rod
46	5	500-100-114	1	1/2 Locknut
46	6	550-100-067	1	Link Pivot
46	7	5X2-100-231	1	Control Rod
46	8	550-100-069	1	Throttle Spring
46	9	5X2-100-232	1	Striker Block
46	10	5X2-100-233	1	Main Link
46	11	599-100-070	2	5/16 x 1 1/2 Bolt
46	12	599-100-031	2	3/8 x 1 1/2 Bolt
46	13	500-100-165	3	5/16 x 1 Bolt
46	14	5X2-100-234	1	1/2" SAE Washer

Page #	Ref #	Part #
		Fuel Tank / Mount
47	1	550-204-100
47	2	5X2-100-240
47	3	5X2-100-143
47	4	500-100-046
47	5	550-204-110
47	6	550-204-107
47	7	550-200-111
47	8	550-204-109
		<u>Tool Box</u>
48	1	550-204-112
48	2	550-204-113
48	3	550-204-114
48	4	550-200-102
48	5	550-204-115
		Running Lights
49	1	550-200-117
49	2	550-200-118
49	3	550-200-119
49	4	550-200-120
49	5	550-200-121
49	6	550-200-122
		Accessories
		Film Sensor

		Film Sensor
56	1	550-200-234
56	1	550-100-060
56	1	550-200-235
		Wheel Drive
57	1	550-203-242
57	2	550-200-135
57	3	550-200-136
57	4	550-203-237
57	5	550-200-138
57		550-203-240
57		550-203-238
57		550-203-239
57		550-203-241

Qty Description

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Parts 9.5

Fuel Tank Fuel Tank Mount Grommet 3/8 x 1 Bolt Tie Down Strap 1/4 Fuel Line Fuel Filter Hose Clamp

Parts 10

- Tool Box Mount 1/4 x 1 Hex Bolt with Locknut 1/4 Large dia Washer 3/8 x 2 1/2 Bolt Tool Box
- 7 Pin Plug
- Junction Box
- Strain Relief
- 7 Wire Conductor
- Red Lamp
- Amber Lamps

Parts10.5

- Switch Bracket
- Limit Switch (check page 39)
- Toggle Switch
- Rim with Gear (not shown)
- 1 Main Assembly
- 3 Shoulder Bolt
 - Gear
- 1 Hydraulic Motor
- 1 Lock Handle
- 1 Inner Plate
- 1 Outer Plate
- 1 Handle Stop

		Wheel Drive		Parts 11
58	1	550-200-120	1	Crossover Relief Valve
58	2	550-200-121	1	Selector Valve
58	3	550-200-122	1	Selector Valve Mount
58	4	550-200-123	1	Mount Clamp
		<u>Twin Wrap Kit</u>		
60	1	550-200-139	2	Twin Wrap Frame
60	2	550-200-140	4	Plastic Wrap Spool
60	3	550-200-141	10	3/8 x 1 Bolt c/w Nut lockwasher
60	4	550-200-115	4	Spool Holder
		Re: Mounting		
		Accessories (year		
		<u>2003)</u> (remote		
61			1	Hand Unit (Transmitter)
61			1	Receiver Unit (Receiver)
		Guide Roller Kit		Parts 11.5
62	1	550-200-238	2	Roller
62	2	550-200-239	2	Spindle
62	3	550-200-233	2	Pin
62	4	500-100-112	2	Hair Pin
		<u>Lights</u>		
63		5X2-100-201	2	Light Bracket
		Leveler		-
64	1	5X2-100-205	1	Main Stand
64	2	5X2-100-206	2	Pivot Pin
64	3	5X2-100-207	1	3 1/2 x 8 Hydraulic Cylinder
				5 5

Dated -- Nov 24 2004