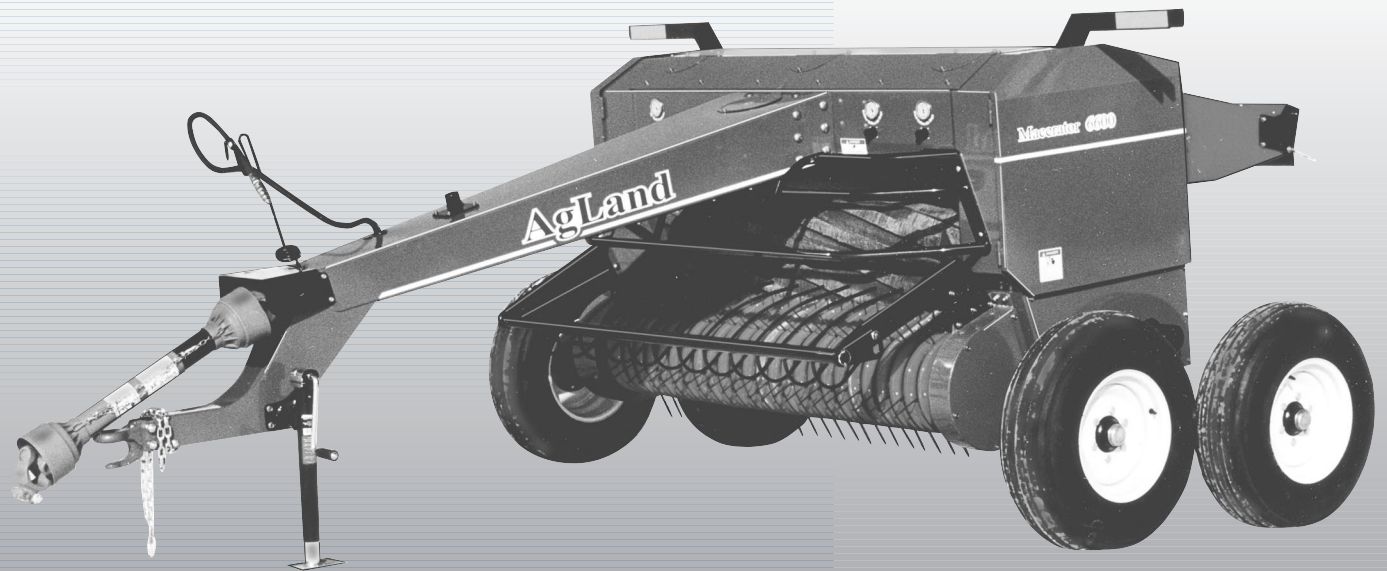


Assembly Instructions  
Operators Manual  
Parts Catalog



**Macerator 6600™**



# INDEX

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## Replacement Parts

To obtain prompt, efficient service, always remember to give the dealer the following information:

1. Correct part description
2. Model number of the machine
3. Serial number of the machine

The serial number is important in identifying your machine. It contains information for ordering replacement parts and options, which may vary, depending on the serial number identification.



(Serial # plate inside right side cover)

Measurements are given in U.S. units, followed by the equivalent in metric units. Hardware sizes are given in inches for the U.S. hardware and millimeter for metric hardware.



Congratulations, you have just purchased the AgLand Macerator 6600

To get the maximum benefit from your Macerator we suggest that you read the owners manual carefully.

The Macerator is designed to condition the hay for a super fast dry down while maintaining the maximum amount of nutrients and colour. The Macerator utilizes special steel macerator rollers, each running at a different speed allowing for a measured nicking or cutting of the top half of the stem or leaf for greater air exposure. The low profile, heavy-duty pickup, with extra width rollers allow for rapid operation with minimal leaf loss.

The roller system of the Macerator is designed, to allow for the right amount of maceration without cutting up the hay.

These operating and maintenance instructions have been compiled from extensive field experience and engineering data. Some information is general in nature due to unknown and varying conditions.

However, through experience and these instructions, you will be able to develop operating procedures suitable to your particular situation.

Please study this manual from the beginning to end BEFORE operating your new Macerator 6600. Pay special attention to the safety cautions in this book and on your equipment. Should anyone else operate this equipment be sure that they understand All Safety, Operating and Maintenance information presented in this manual



## WARNING

**Some pictures in this manual show the machine with shields removed to allow for a better view of the subject of the picture. The machine must never be operated with any of the shields removed!**

“Right” and “Left”, as used throughout this manual, are determined by facing the direction the machine will travel when in use.

The photographs, illustrations, and data used in this manual were current at the time of printing; but due to possible inline production changes, your machine can vary slightly in detail. The Manufacturer reserves the right to redesign and change the machine as necessary without notification.

# SAFETY PRECAUTIONS

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Read this manual completely and understand all operating instructions and precautions before attempting to operate or service your machine.

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operations of all controls before you try to operate this machine. **MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.**

The Safety Alert symbol identifies important safety messages on the machine and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

## Three Big Reasons

1. Accidents disable and kill.
2. Accidents cost.
3. Accidents can be avoided.

The safety information given in this manual does not replace safety codes, insurance needs, or state and local laws. Make sure your machine has the correct equipment needed as specified by the local laws and regulations!

## SAFETY ALERT SYMBOL



**This Safety Alert symbol means -  
ATTENTION!  
BE ALERT!  
YOUR SAFETY IS INVOLVED!**

**WATCH OUT FOR THIS SYMBOL ON  
YOUR MACERATOR 6600 AND  
THROUGHOUT THE MANUAL.**

### SIGNAL WORDS:

**DANGER** - An immediate and specific hazard which **WILL** result in severe personal injury or death if the proper precautions are not taken.

**WARNING** - A specific hazard or unsafe practice which **COULD** result in severe personal injury or death if proper precautions are not taken.

**CAUTION** - Unsafe practices **COULD** result in personal injury if proper practices are not taken, or as a reminder of good safety practices.

## Model 6600 AgLand Macerator

### Dimensions

<b>Width -</b>	10'6" (320 cm)
<b>Length -</b>	11'4" (345 cm)
<b>Height - operation</b>	3'6" (107 cm)
<b>transport</b>	4'10" (147 cm)
<b>Weight -</b>	3600 lbs (1633 Kg)

### Tires (4)

<b>Tire size -</b>	8 ply 11L - 15SL
<b>Pressure -</b>	20 psi (138 kPa)
<b>Wheel hub -</b>	6 bolt
<b>Wheel torque -</b>	85 ft. lbs. (115.2 NM)

### Pickup

<b>Width (inside flare) -</b>	5'11" (180 cm)
<b>Clearance under pickup when raised -</b>	14" to 16" (35.5 to 40.5 cm)
<b>Tooth clearance when raised -</b>	10" to 12" (25 to 30 cm)

### Rollers

Width of rubber feed rollers	5'6" (168 cm)
RPM of rubber feed rollers	645
Width of steel Macerator rollers	5'6" (168 cm)
RPM of top steel Macerator roller	1372
RPM of bottom steel roller	1514
Minimum spacing between bottom and top Macerator roller	1/32" (1 mm)

**Pickup tooth spacing -** 2 3/4" (7 cm)

*Some weights and measurements in this column are approximate.*

### Tractor Requirement

**Suggested minimum tractor size -**

80 HP( 60 KW)

\* Note : Tractor should be of sufficient size to maintain operator control in all situations.

### Air System

**Size of Air Pressure tank** 12 gallon (46L)

**Maximum Air Pressure in tank** 120 psi

**Hydraulic outlets required -** 1

**Suggested minimum underframe clearance -**  
15" (38 cm) to allow swath to flow freely under tractor

### Operating speed

**Approximate range -** 5 to 10 mph (8 to 16 k/h),  
depending on crop conditions

### Swath Size

Width up to - 5' (1.5m)

### Cut Width

Maximum 14' (427")

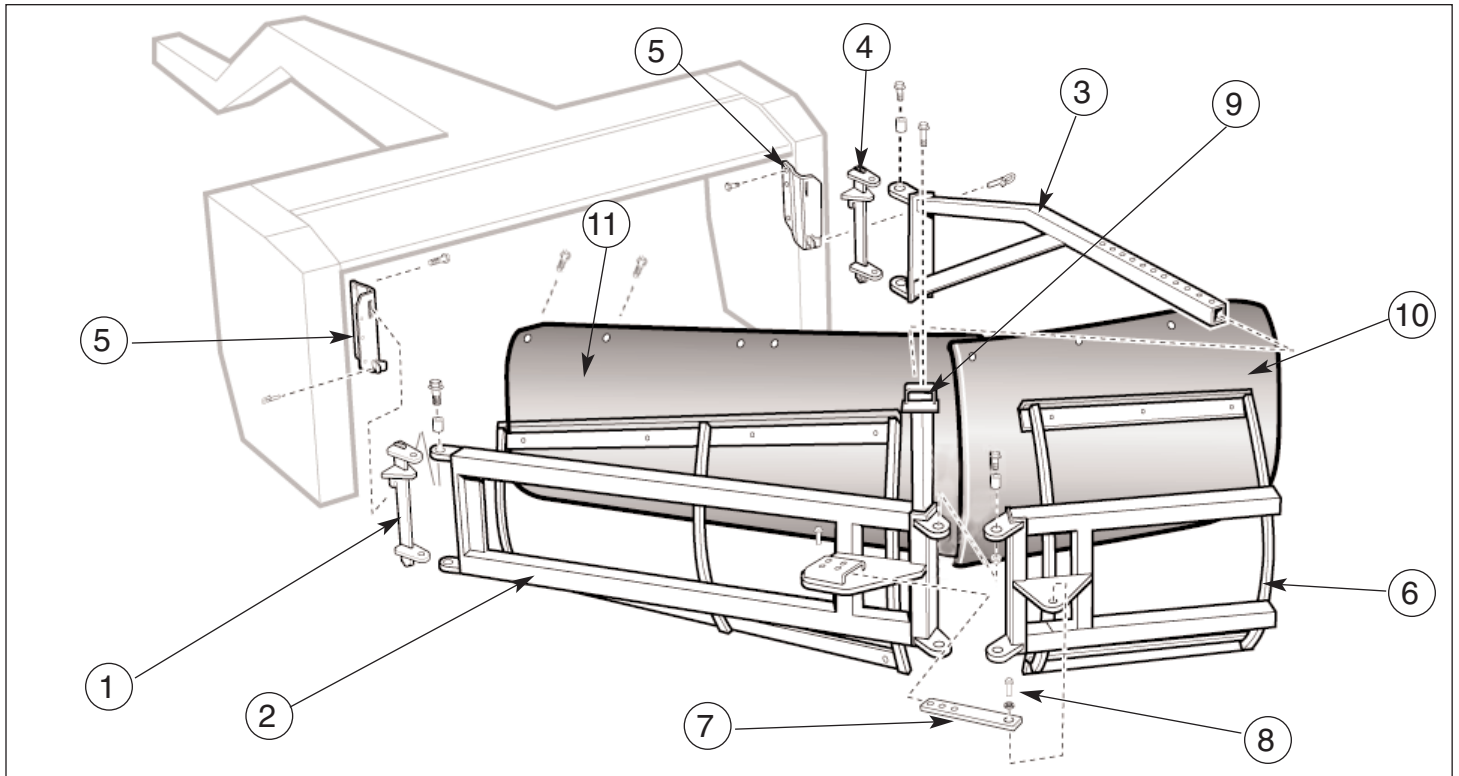
### Capacity

Up to - 2 1/2 ton/acre

NOTE: All specifications, statements and information shown in this manual are believed to be accurate at the time of printing. Specifications are subject to change without notice

# ASSEMBLY

## SWATH INVERTER (MOLD BOARD)



1. Attach Mold Board Attachment bracket L/H (1) to the Mold Board main frame (2) and attach main frame to Quick Attach bracket (5) (already installed) and insert lynch pin.

2. Attach Mold Board Attachment bracket R/H (4) to the adjustment bar (3) and attach bar to bracket (5) (already installed) and insert lynch pin.

3. Attach small frame (6) to the main frame (2) , using 1/2" x 1 1/2" hex bolts with bushing, washer and hex nut.

4. Attach extension adjustment bar (7) using 1/2" x 1 1/2" bolt and nut. Do not tighten adjustment bolt (8). Insert adjuster pin after unit completely assembled

5. Slide main frame adjustment bracket (3) through the adjustment bar (9) and insert 1/2" x 3" pin.

### Mold board sheet installation

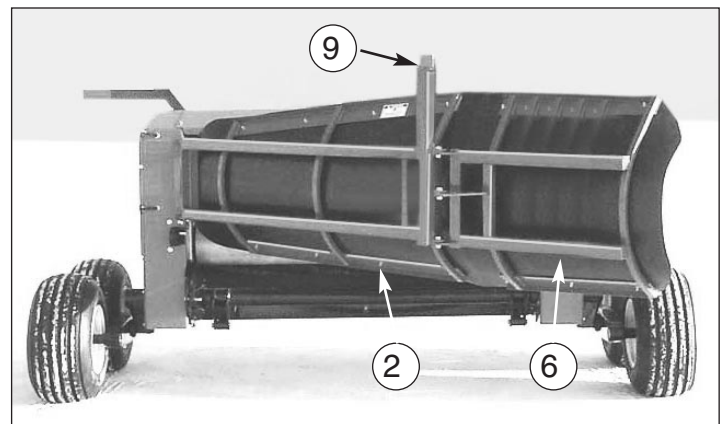
6. Install short mold board (10) to outside portion of main frame (6) using 5/16 x 3/4" carriage bolts and flange nuts. DO NOT tighten bolts at this time.

7. Install longer mold board sheet (11) on to the main frame (2) using 5/16" x 3/4" carriage bolts, overlapping the short mold board sheet.

8. All bolts holding the moldboard sheets can now be fully tightened.

9. Adjust angle of moldboard by moving adjustment bracket (3) in or out of adjustment bar (9) to preferred moldboard angle and insert 1/2" x 3" pin

**The tighter angle will result in less inversion, The wider angle will give you a greater inversion.**



## SPREADER ATTACHMENT

The Spreader attachment allows the Macerator to spread a wider swath and leave a thinner layer on the field for greater sun and wind exposure.

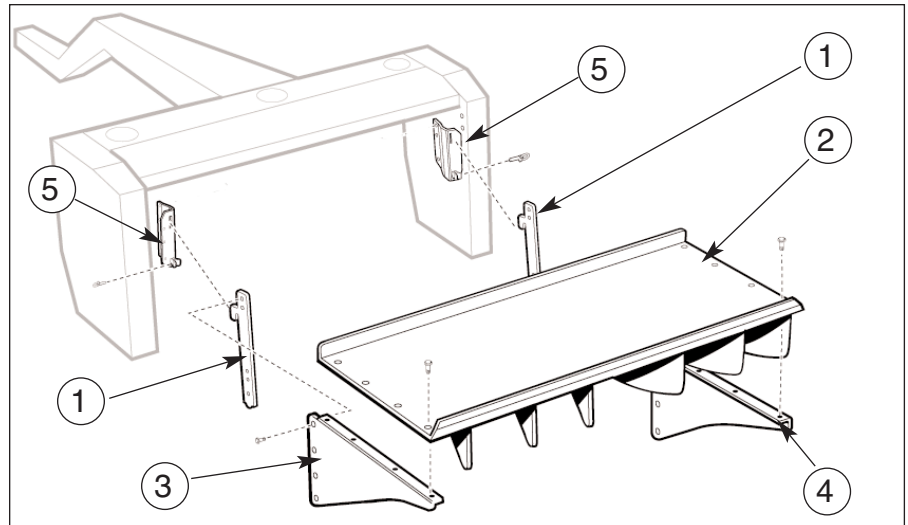
The Spreader attachment consist of only five pieces and quick attaches on to the rear of the main frame.

1. Insert 3/8" x 1" flange bolts through side panels (3 & 4) and attach quick mounting bracket(1).

2. Mount side panels (3 & 4) to top plate 2 with 5/16" x 3/4" flange bolts.

3. Tighten all bolts evenly.

4. Hook spreader attachment to the quick mounting bracket (5 on main frame and insert lynch pin.



Spreader attachment

## WINDROWER ATTACHMENT

The windrower attachment allows you to direct the cut hay down to keep a tighter windrow, or out for a wider swath width.

1. Insert 3/8" x 1" flange bolts through side panels (1) and attach quick mounting bracket (2).

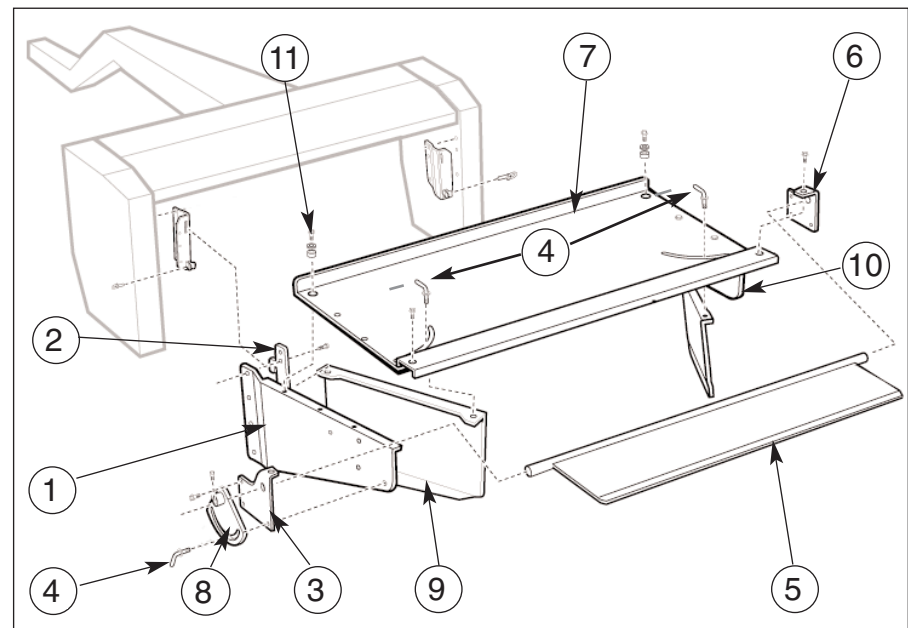
2. Mount brackets (1) to top plate (7) with 5/16" x 3/4" flange bolts. Do not tighten bolts.

4. Mount side brackets (3) to bracket (1) with 3/8" x 3/4" flange bolts.

5. Insert windrow baffle (5) into hole of side brackets (3)

6. Mount the other side bracket (6) to side panel (10) with 3/8" x 3/4" flange bolts.

7. Mount adjustment bracket (8) using 5/16 x 1 1/2 socket head cap screw



Windrower attachment

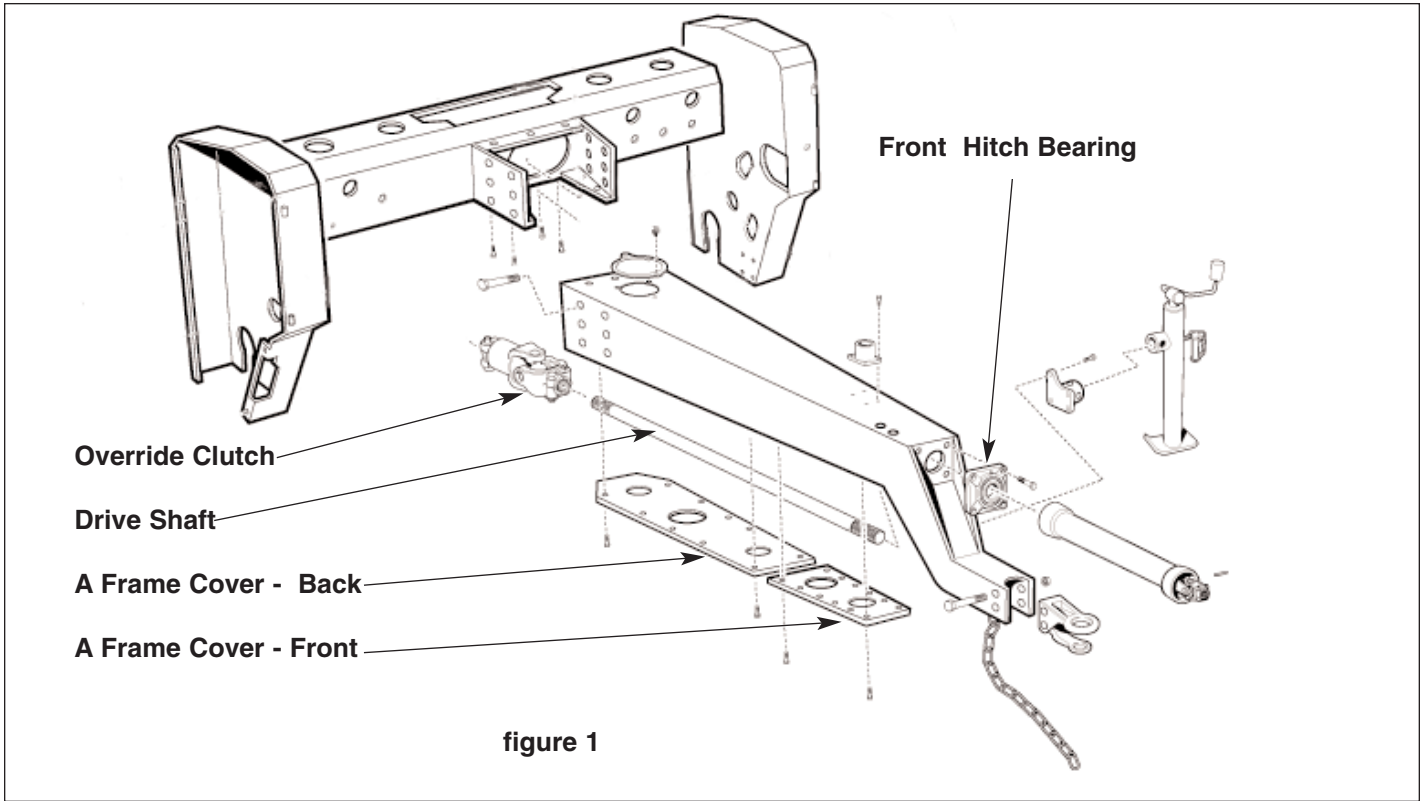
8. Install left & right side width adjusters (9 & 12) using 3/8" x 1" bolt & bushing (11) through top plate (7).

9. Insert wing bolt (4) through slot into width adjusters (9 & 12).

10. Tighten all bolts evenly.

11. Hook spreader attachment to the quick mounting bracket on main frame and insert lynch pin.

# ASSEMBLY



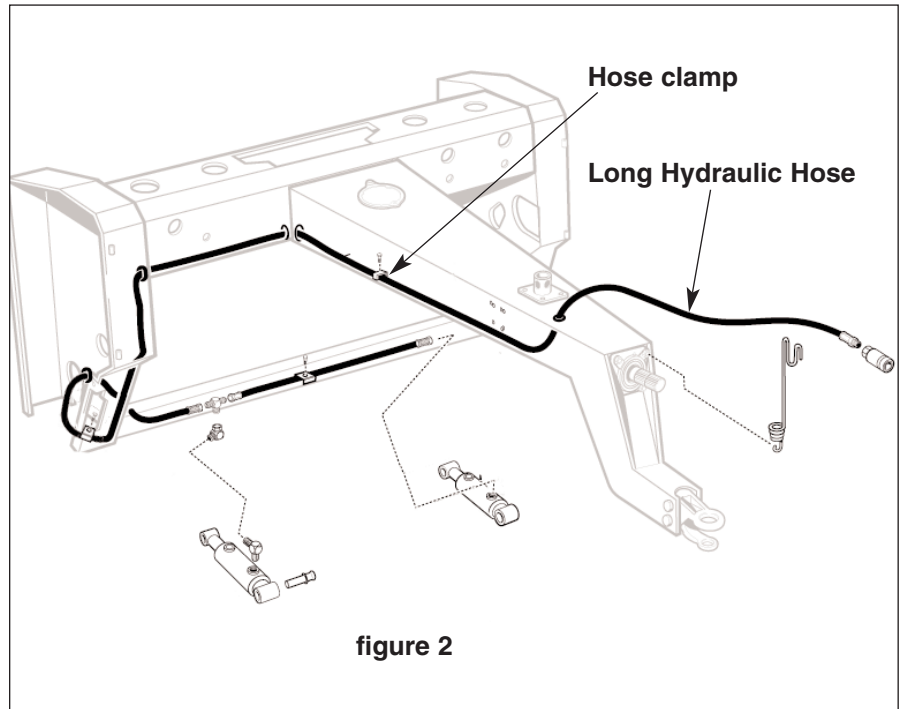
## ATTACHING HITCH

Sometimes the hitch will be shipped detached from the unit to allow for a more compact shipping package.

1. Bolt Hitch to main frame, figure 1, using fourteen 5/8 x 1 1/2" carriage bolts. Be sure bolts are securely tightened all around

2. Remove bearing on front of hitch, slide drive shaft into Override Clutch through front bearing hole and reinstall bearing and tighten shaft bolts on Override Clutch.

3. Install the long hydraulic hose securely with clamps provided, as shown in figure 2.





The Macerator can easily be moved from location to location. When transporting follow this procedure.

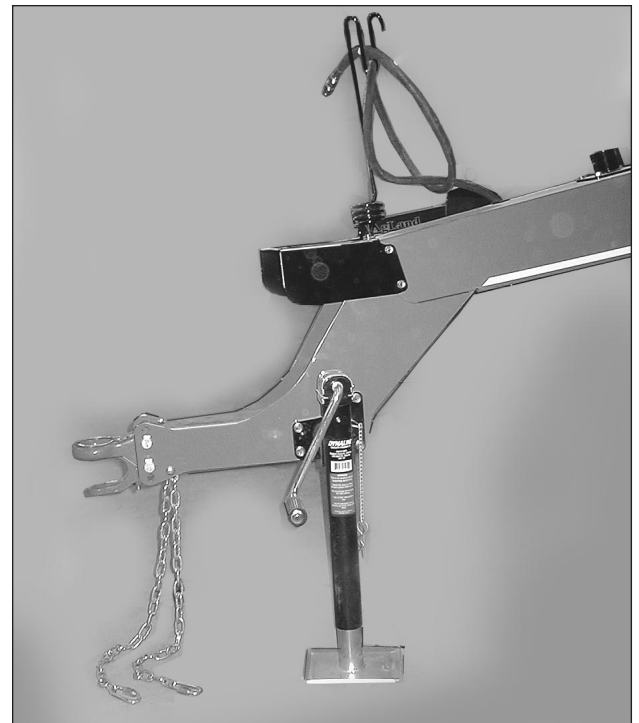


## TRANSPORT SAFETY

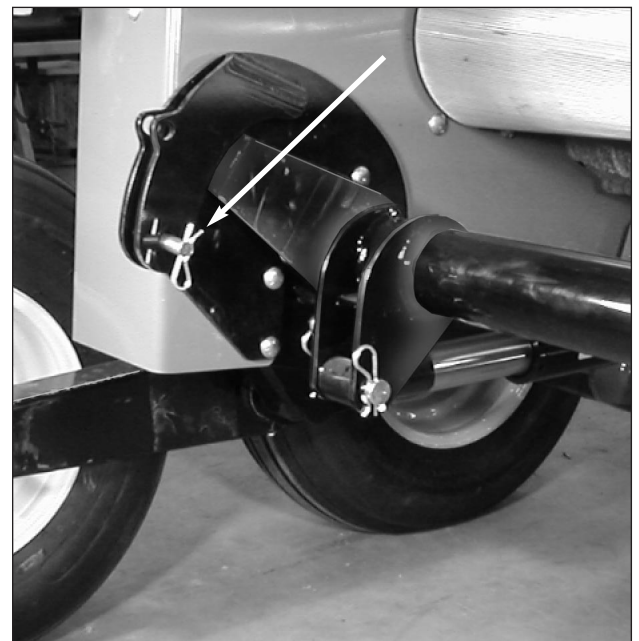
1. Make sure you are in compliance with all local regulations regarding transporting equipment on public roads and highways.
2. Make sure the SMV(Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, are clean and can be seen clearly by all overtaking and oncoming traffic.
3. Do not allow anyone to ride on the Macerator or tractor during transport.
4. Do not exceed 32 km/h (20 mph). Reduce speed on rough roads and surfaces.
5. Use a retainer on the drawbar pin and install a safety chain before transporting.
6. Always use proper lighting on the tractor when transporting.
7. Stay away from overhead electrical wires. Electrocutation can occur without direct contact.
8. When using a ball and socket, make sure the locking jaws are pinned securely in position.
9. Do not rely on the Macerator lift hydraulic cylinder to keep the machine raised! Be sure unit is in raised position and lever is secured with the lock-up pin provided.



Slow moving vehicle emblem



Hitch and safety chain



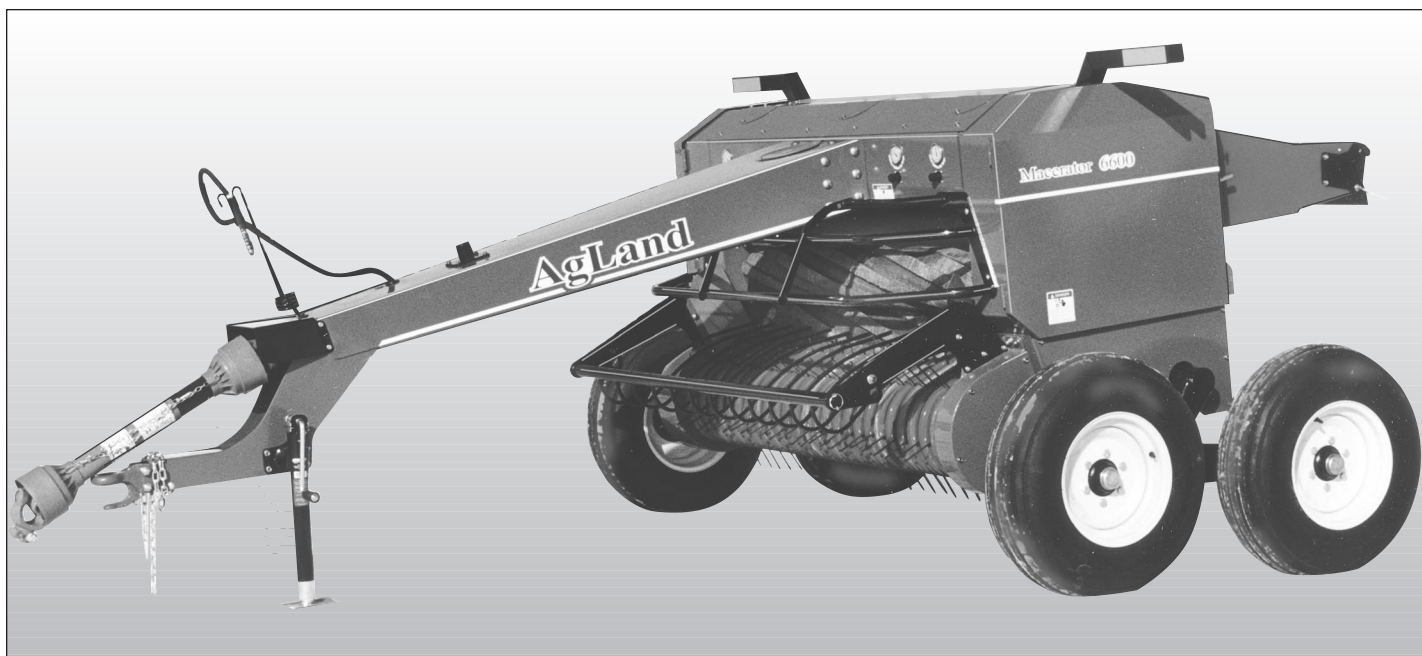
Lock travel pin in place



## Operating Safety

1. REVIEW ALL SAFETY INSTRUCTIONS with all operators before allowing them to operate the equipment. Follow up at least once a year!
2. All shields and guards must be in position and securely fastened before operating the Macerator.
3. Only use a tractor with ROPS cab and seat belt. Be careful when operating close to a road or building, the machine can throw stones and other debris during operation.
4. Emphasize the importance of safety when working around and operating the machine.
5. Do not allow or carry riders on any part of the equipment or tractor at any time.
6. Always keep hands, feet, and clothing away from moving parts.
7. Always lower the Macerator to the ground when parking.
8. Use a retainer or draw pin to secure the lifting lever of the Macerator before transporting equipment.
9. Use safety chain at all times.
10. NEVER attempt to unclog the machine when the tractor is running and hydraulic system is operating.
11. Before servicing, adjusting, repairing, or unplugging, stop the tractor engine, remove the ignition key, set the park brake, disengage hydraulics, and wait for all moving parts to stop.
12. Keep hands, feet, and clothing away from the pickup area when in operation to avoid entanglement hazard. Do not open or remove shields or guards while machine is running.
13. Be sure to relieve all pressure from hydraulic lines before disconnecting them. Before applying pressure to the system, make sure all connections are tight and that hoses and lines have not been damaged.
14. Always use adequate safety warnings and lights when transporting the machine on public roads.
15. Be sure the Slow Moving Vehicle emblem is installed at the rear of the machine. Check with local law enforcement regarding any specific requirements.

Use with a tractor having a minimum of 80hp (59kw). Tractor should have sufficient ground clearance for swath to pass cleanly under it.

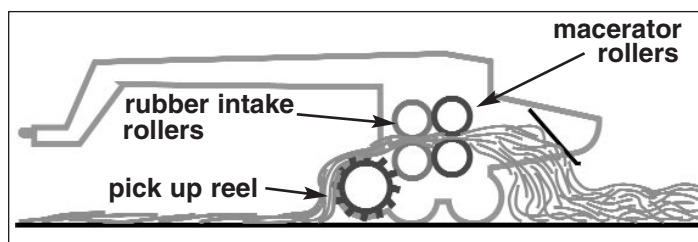


## PTO SPEED

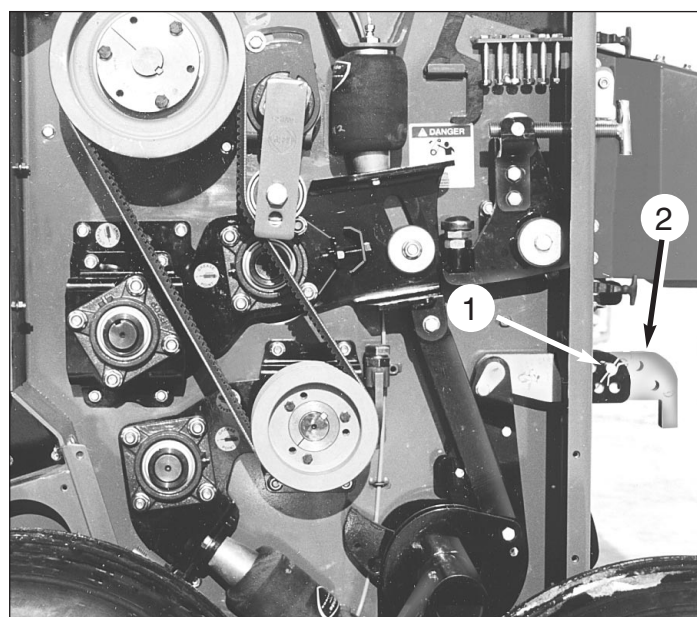
Unless otherwise specified, units are shipped with 1000 PTO speed. Units with 540 rpm PTO also available, contact dealer.

The PTO should be run at approximately 1000 rpm. The front rubber rolls run at 645 rpm and the upper steel roller runs at 1514 rpm at a tractor pto speed of 1000. The bottom steel roller runs at 1372 rpm at 1000 tractor pto speed. 540 runs at same speed.

## PICKUP HEIGHT & ADJUSTMENT



The Macerator 6600 pickup should be adjusted so that it will cleanly pick up all material of the field without gouging the soil. You may have to reset the height a few times to arrive at the best working height.

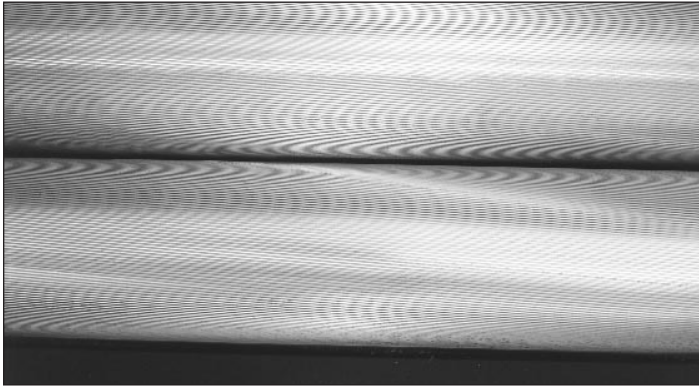


1. If your pickup is too low to the ground, use your tractor hydraulic cylinder control to raise the pickup approximately 1/2" - 1" off the ground.
2. Remove pin (1) and slide adjuster bar (2) to desired height (Pushing bar in raises machine. Pulling bar out lowers the unit).
3. Reinsert pin and lock in place.

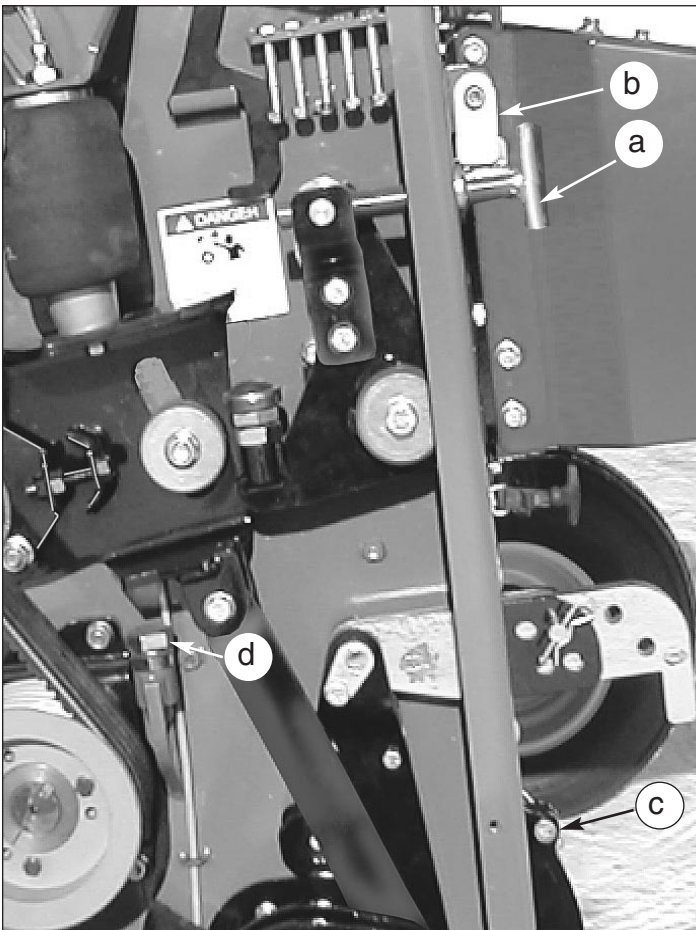
# OPERATION

## STEEL ROLLER ADJUSTMENT

For best results adjust the Macerator 6600 for your specific field conditions. The smaller the gap between the steel serrated rollers the more aggressive will be the maceration of the hay. Both the space between the rollers and the air pressure need to be adjusted for maximum efficiency.



1. Raise the Macerator, using your hydraulics
2. Turn crank (a) clockwise to widen the gap, Counterclockwise to narrow the gap, 1 turn = .04" (1 mm)

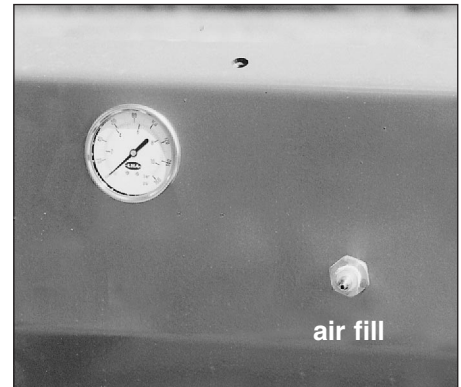


3. Be sure to set the gap exactly the same on both sides! (use gauge).
4. Put Crank Lock (b) in place .
5. To assure that the rollers do not touch, the safety stop is set by the factory at 1/32" or .8 mm.
6. If safety stop (d) needs adjusting, put travel safety pin (c) in place while unit is raised.
7. Adjust the safety stop bolt (d) as needed. Be sure the rollers don't touch during operation!
8. Repeat steps 1 to 4 to fine tune if necessary.

## PREPARATION - AIR SYSTEM

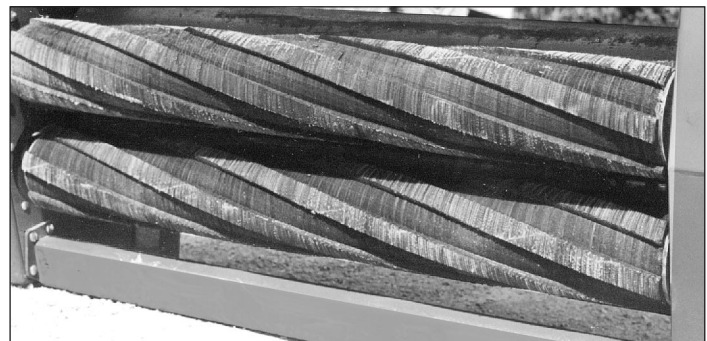
The purpose of the air system on the Macerator 6600 is to keep continuous pressure on the rolls.

***Before heading out to the field make sure the air pressure tank has a minimum of 100 psi pressure. This should give the operator sufficient air supply for the day.***



The pressure can make a difference on how well the machine performs on the field. While the pressure on the rubber rolls may not be as crucial too much pressure on the steel rolls will result in considerable leaf loss and some plugging may result in short wet hay.

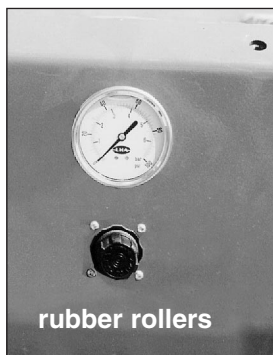
## RUBBER ROLLER ADJUSTMENT



The rubber rollers are designed to take the material from the pick-up and feed it into the steel rollers. The rubber rollers do not crush or crimp the hay.

## Rubber Rollers continued...

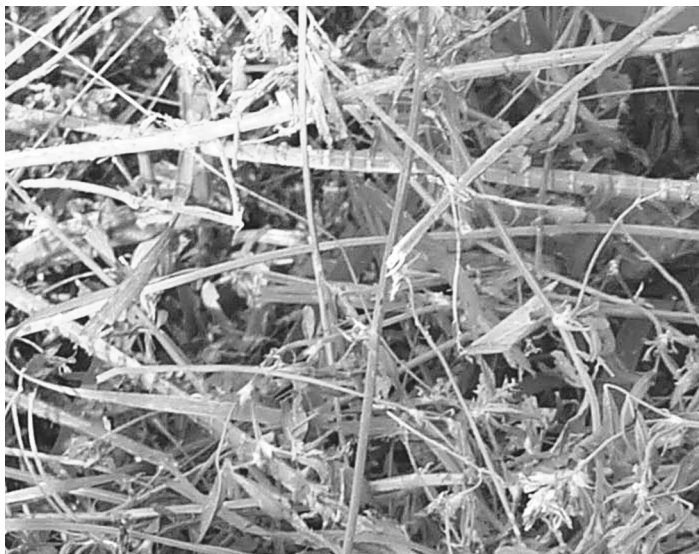
As a standard setting, we recommend 20-30 psi pressure on the rubber rollers. Regulate the pressure by pulling out the knob on the regulator marked **rubber rollers** and turning the knob clockwise or counter clockwise. When turning the knob counter clockwise you should hear the air escaping from the regulator.



In extreme conditions, increase or decrease the pressure. For example very heavy swaths may require less pressure.

## STEEL ROLLERS

The steel serrated rollers (rear) take the material from the rubber rollers and crack the stems.



To achieve the right setting some field testing may be necessary.

1. Pull out the knob on the air regulator marked steel rollers and turn the knob clock/counter clock wise to set the pressure to the steel rollers at approximately 30 psi.



## FIELD TEST

2. If you experience too much leaf loss or the plants are crushed too intensely, lower the air pressure.
3. If there is not enough maceration - increase pressure to the rollers by increasing the air pressure.

## check list



### USE GOOD SAFETY PRACTICES WHEN WORKING ON THIS MACHINE

Before doing any maintenance or service work on the machine, you must:

- Park machine on a solid level surface.
- Disengage all power
- Put the tractor transmission in PARK or apply the tractor parking brake.
- Stop the tractor engine and take the key with you.
- LOOK AND LISTEN! Make sure all moving parts have stopped.
- Install the cylinder safety stops, if applicable.
- Block the Macerator up securely before working

### FIRST TIME USE

- Tighten hub bolts 1-4\* after the first 1/2 hour of operation and repeat procedure after 1 1/2 hours and 3 hours.

#### **\*IMPORTANT**

See figure 1 - page 14

Hub 1 - tighten to 60 Ft. lbs

Hub 2 - tighten to 30 Ft. lbs

Hubs 3 - (2 hubs) - tighten to 9 Ft. lbs

Hub 4 - tighten to 6 Ft. lbs

Hub 5 - tighten to 16 Ft. lbs.

See figure 3 - page 15

Hub 12 - tighten to 60 Ft. lbs.

Hub 13 - tighten to 30 Ft. lbs.

### DAILY

- Check and tighten all hub bolts.
- Remove all dirt and crop deposits from machine.

### AFTER THE FIRST 25 HOURS OF USE

- Check bearing set screw tightness

### AT THE BEGINNING OF EACH SEASON

- Review all safety instructions.
- Carefully inspect all components for excessive wear or hazardous conditions.
- Lubricate the machine at all lubrication points\*.
- Check tires for correct inflation pressure.
- Tighten bolts.

\* **SEE LUBRICATION SCHEDULE AND PROCEDURES ON PAGE 17**

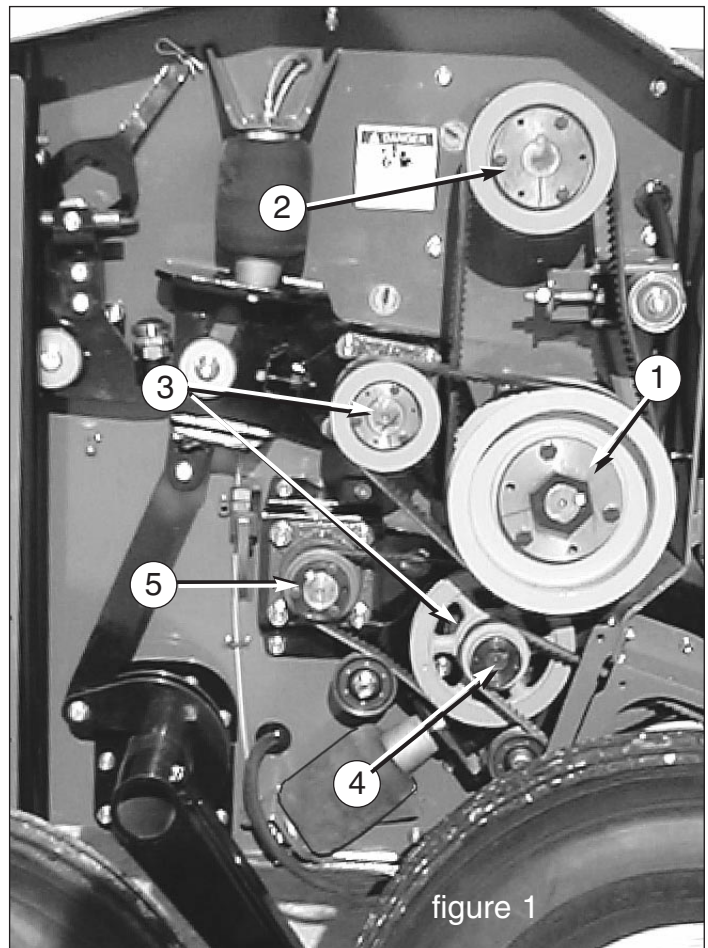


figure 1

## ROLLER DRIVE BELT REPLACEMENT

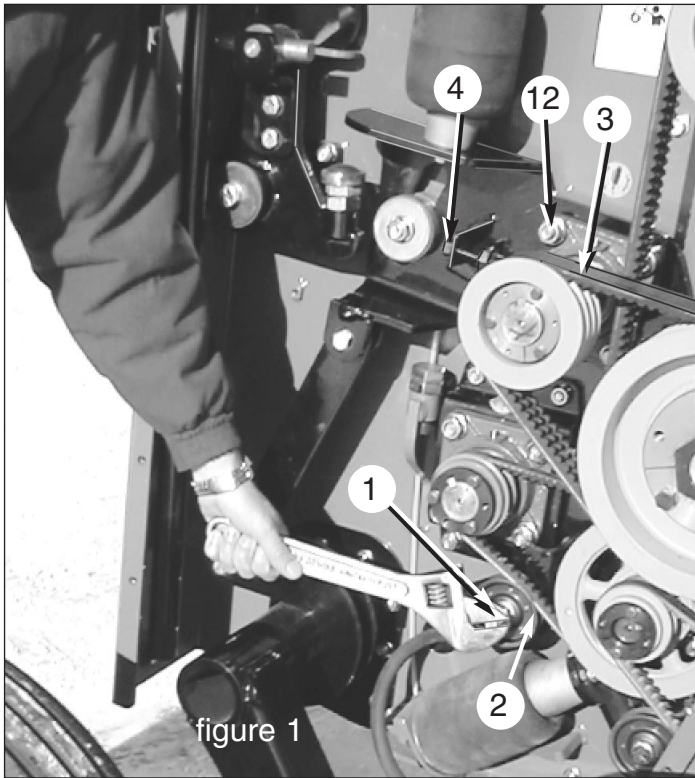


figure 1

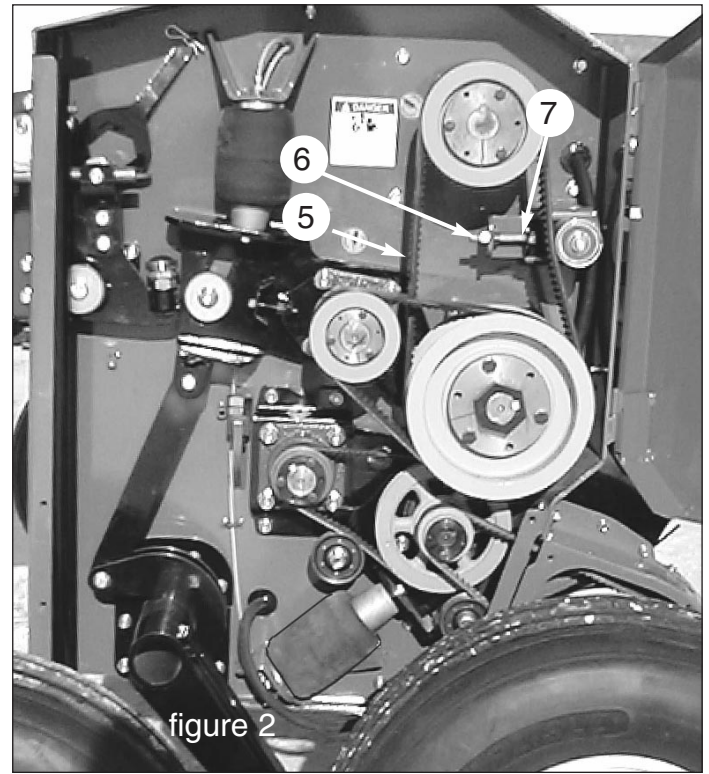


figure 2

Replace worn or damaged belts as follows:

1. Raise Macerator, and secure travel safety pin.
2. To remove belt (2) loosen and turn flattened bolt (1) counterclockwise.

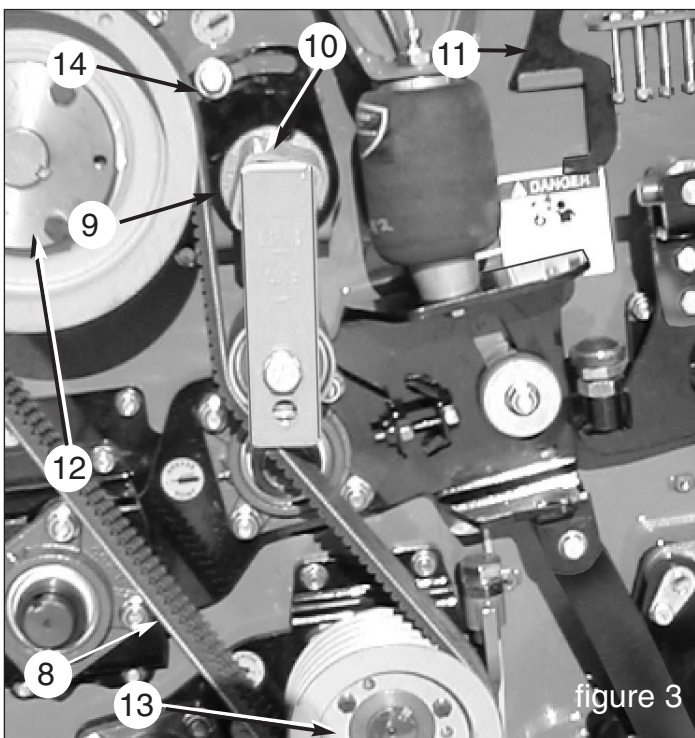


figure 3

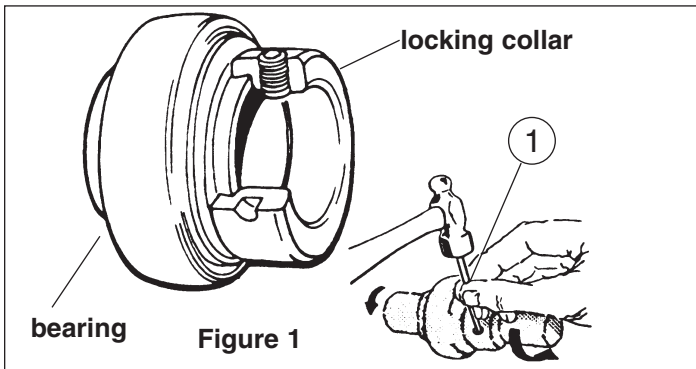
3. To remove belt (3) loosen 4 bolts (12) then loosen bolt (4) and slide roller forward (see note\*).
4. To remove belt (5) loosen bolt (7) then loosen bolt (6) and slide tightener forward.
5. To replace belt (8) loosen bolt (9 - behind tightener).
6. Take tightening wrench (11) (Use pipe (13) for leverage) and hold spring loaded tightener (10) firmly in place, while loosening bolt (14), now release tension slowly with wrench.
7. Replace all belts and tighten bolts (reverse sequence of points 2-5)

### 8. Reinstall covers!!

**\* Note: To maintain proper roller alignment, be sure to adjust the opposite tightener on the other side of the machine!**

# MAINTENANCE

## BEARING REPLACEMENT



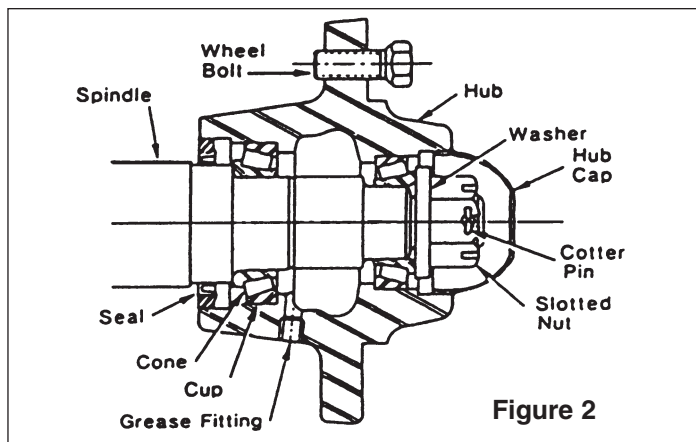
Sealed ball bearings are held in position on the shaft by a locking collar, figure 1, which is rotated to lock the assembly on the shaft and secured by a set screw. To remove Bearing:

1. Loosen set screw
2. Use a drift punch inserted in the drift pin hole to rotate and loosen the locking collar (1). Rotate the locking collar counter clock wise.
3. Remove the locking collar.
4. Support the shaft, for easier assembly later.
5. Remove the bolts for the bearing flanges.
6. Slide the bearing and the flanges from the shaft.

*Note: Cleaning paint and corrosion from the shaft will make removal easier.*

7. Put on the new bearings and flanges.
8. Replace locking collar on the shaft. Rotate the locking collar clockwise until lightly engaged. Tighten the collar by hitting it with a drift pin punch inserted in the drift pin hole rotating it further clockwise.
9. Tighten set screw.

## REPLACING OR REPACKING WHEEL BEARINGS



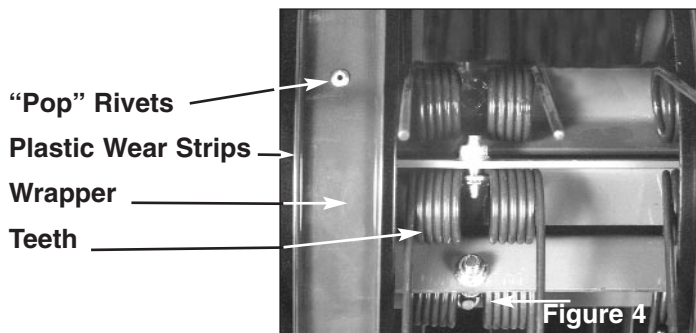
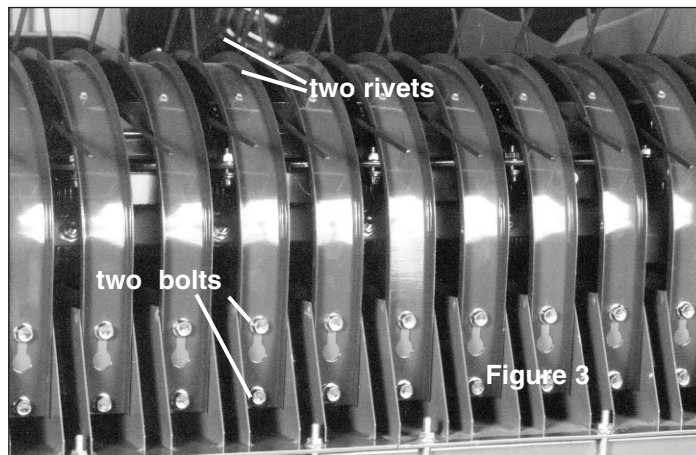
1. Remove wheel hubs and disassemble.
2. Clean bearings, seals, caps, washers, nuts and hubs with kerosene or other solvent.

3. Replace bearings or seals if worn or damaged.
4. Pack bearing cones and seals with No. 2 multi-purpose lithium grease or equivalent.
5. Reassemble hub and bearings. ( figure 2 )
  - a. Press cups against the shoulder in the hub.
  - b. Press seal flush into hub after bearing.
  - c. Place hub on shaft taking care not to damage the seal!
  - d. Tighten the wheel bearing nut. Do not overtighten.
  - e. Secure nut with a cotter pin.
  - f. Be sure to replace hub cap.

## PICKUP TEETH, WRAPPERS, WEAR STRIPS

Check for bent, broken or loose parts. If it is necessary to replace teeth or related parts, proceed as follows.

1. Ensure that your Macerator is blocked securely. Loosen the bolts, holding the wrapper(s) on pickup. (fig. 3) Slide wrapper forward, and remove the wrapper from the bolts.



2. Should the plastic wear strip require removal and replacement, drill out or carefully grind off the "pop" rivets. Replace strip with new rivets (figure 4).
3. Install new teeth or wrapper(s).



## General information

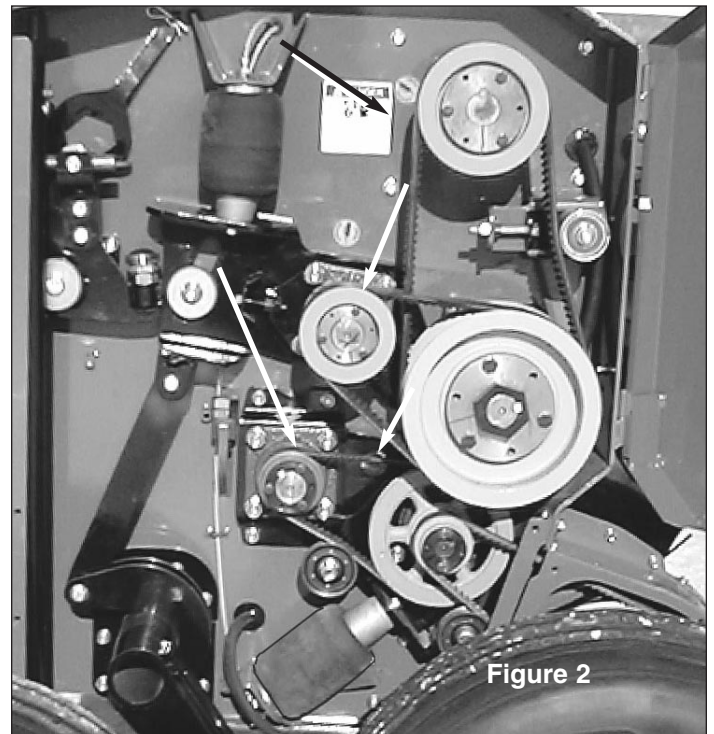
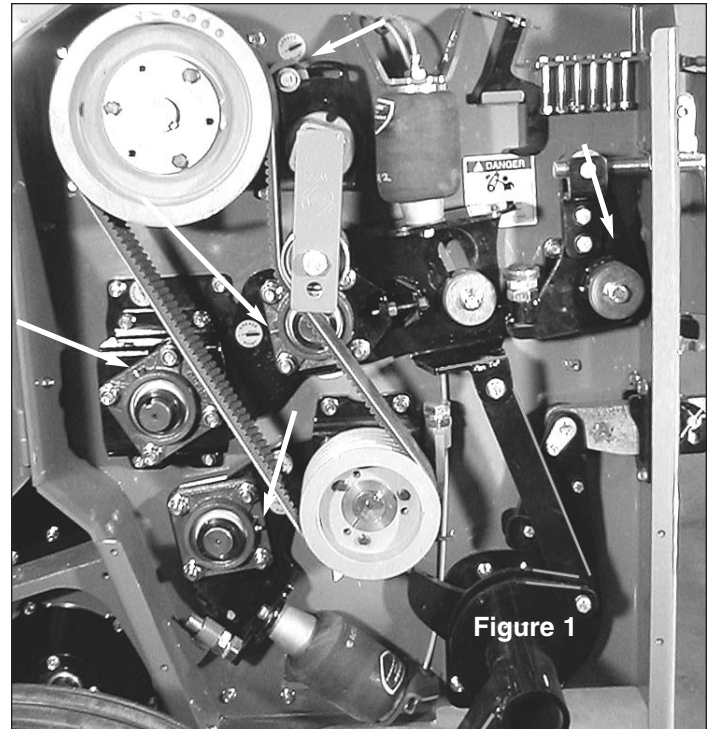
We recommend a good grade SAE multi-purpose high temperature grease.

Use a manual grease gun for all greasing. Air powered grease guns may damage the seal on the bearings.

Wipe all grease fittings with a clean cloth before greasing to avoid injecting dirt or grit in the bearings.

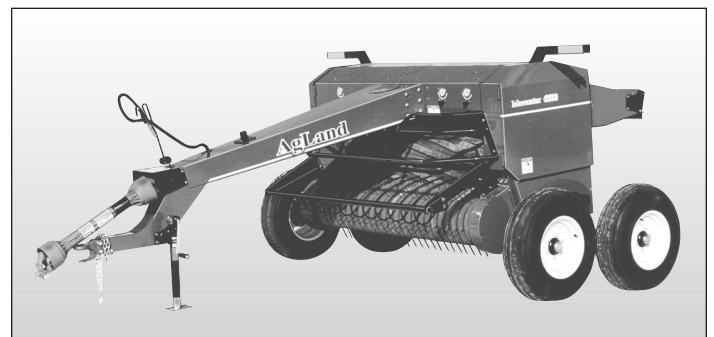
## At the beginning of the season

Grease all the sealed bearings, front rollers (two places), rear rollers (two places) and drive shaft one place, figures 1 and 2.



## Note:

*After lubricating, servicing, or adjusting the Macerator, make sure all tools and equipment are removed from Macerator to prevent damage.*





## HYDRAULIC AND AIR SAFETY

### HYDRAULIC SAFETY

Make sure that all components in the hydraulic system are kept in good condition and are clean.

Replace any worn, cut, abraded, flattened or crimped hoses and metal lines.

Do not attempt any makeshift repairs to hydraulic lines, fittings, or hoses by using tape, clamps, or cements. The hydraulic system operates under extremely high pressure: 1600 to 2300 PSI (11 033 to 15 859 kPa). Such repair will fail suddenly and create unsafe conditions.

A high pressure concentrated stream of hydraulic fluid can pierce the skin. If such happens, seek immediate medical attention as infection and toxic reaction could develop.

Wear proper hand and face protection (eg. face shield) when searching for a high pressure hydraulic leak. Use a piece of wood or cardboard as a backdrop instead of hands.

Before applying pressure to the system, make sure all connections are tight and that line, hoses, and couplings are not damaged.

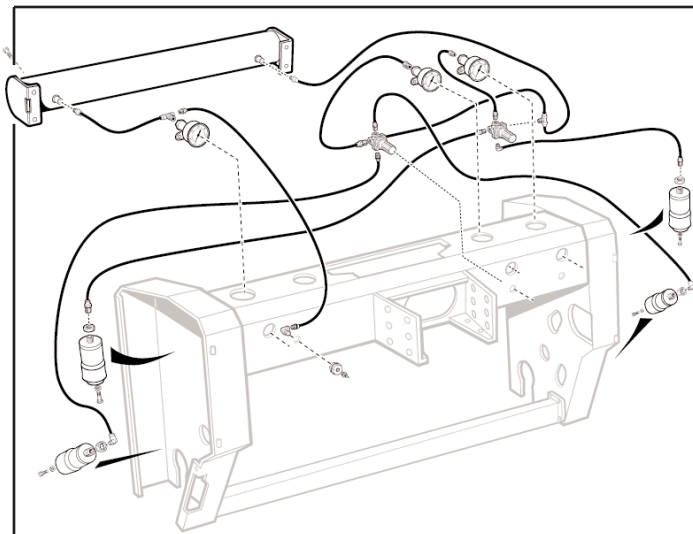
### AIR SAFETY

Make sure all hoses and bellows are kept in good condition and are clean.

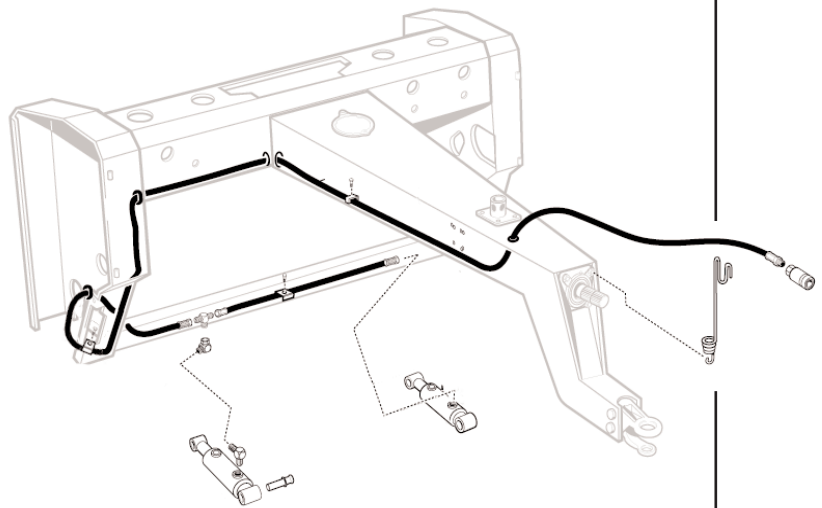
Replace any damaged lines or bellows.

Do not exceed 110 lbs air pressure in tank and 90 lbs. in air bags.

Think SAFETY!  
Work SAFELY!



AIR SYSTEM



HYDRAULIC SYSTEM

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pickup is skipping swath or not picking cleanly	Missing or broken pickup teeth	Replace missing teeth
	Pickup too high	Adjust pickup height
	Driving too fast for pickup speed	Use lower tractor gear with higher rpm
	Not following the same direction as swath was cut.	Follow the same direction as swath was cut
Material wrapping in pickup	Nylon wear plates missing or worn	Replace missing or worn nylon pads
	Pickup & travel speed not matched	Match pickup & ground speed as close as possible
Breakage or bending of pickup teeth	Running pickup too low	Adjust pickup height
	Excessive pickup rotation speed in rough or rocky conditions	Reduce pickup or ground speed
Excessive noise or heat from gear box	Insufficient oil in gear box	Top up gear oil as needed
	Worn or broken parts inside gear box	Replace parts as needed
Air pressure does not hold in air tank and air bags	Broken air line	Repair or replace line as needed
	Torn or punctured air bag	Replace air bag as needed
	Air regulator not working	clean or replace air regulator
Pickup does not rise or lower	Worn or punctured hydraulic cylinder or hydraulic oil line	Replace hydraulic lines & cylinders as needed
	Bushings too tight	Replace or clean bushings
Pickup height adjustment does not hold	Broken or worn parts on adjuster	Replace worn parts as needed
Rubber rolls not feeding properly	Air pressure too high or too low	Adjust air pressure using the regulator
	Gap between rollers too tight or too wide	Adjust gap width
Wax build up on steel rolls	Temperature & hay conditions cause the wax to come off the plant and stick to the rollers	The wax will come off after the rollers cool down. A thin layer of wax/leaves will build up on the rollers
Excessive leaf loss	Too much air pressure on steel rollers	Release air pressure
	Hay conditions too dry	Condition hay early in the morning
	The gap between steel rollers is too narrow or the rolls going too fast	Adjust gap between steel rollers

## TROUBLE SHOOTING

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<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
Hay is not being macerated	Not enough air pressure on steel rolls	Adjust air pressure as required
	Gap between rollers is too wide	Narrow the gap between steel rollers
	Windrow is too thick	Cut wider or thinner windrows
	Steel rolls not running fast enough	Increase tractor rpm
Swath not being inverted completely	Moldboard not adjusted properly	Adjust moldboard angle. The tighter angle will result in less inversion, The wider angle will give you a greater inversion.

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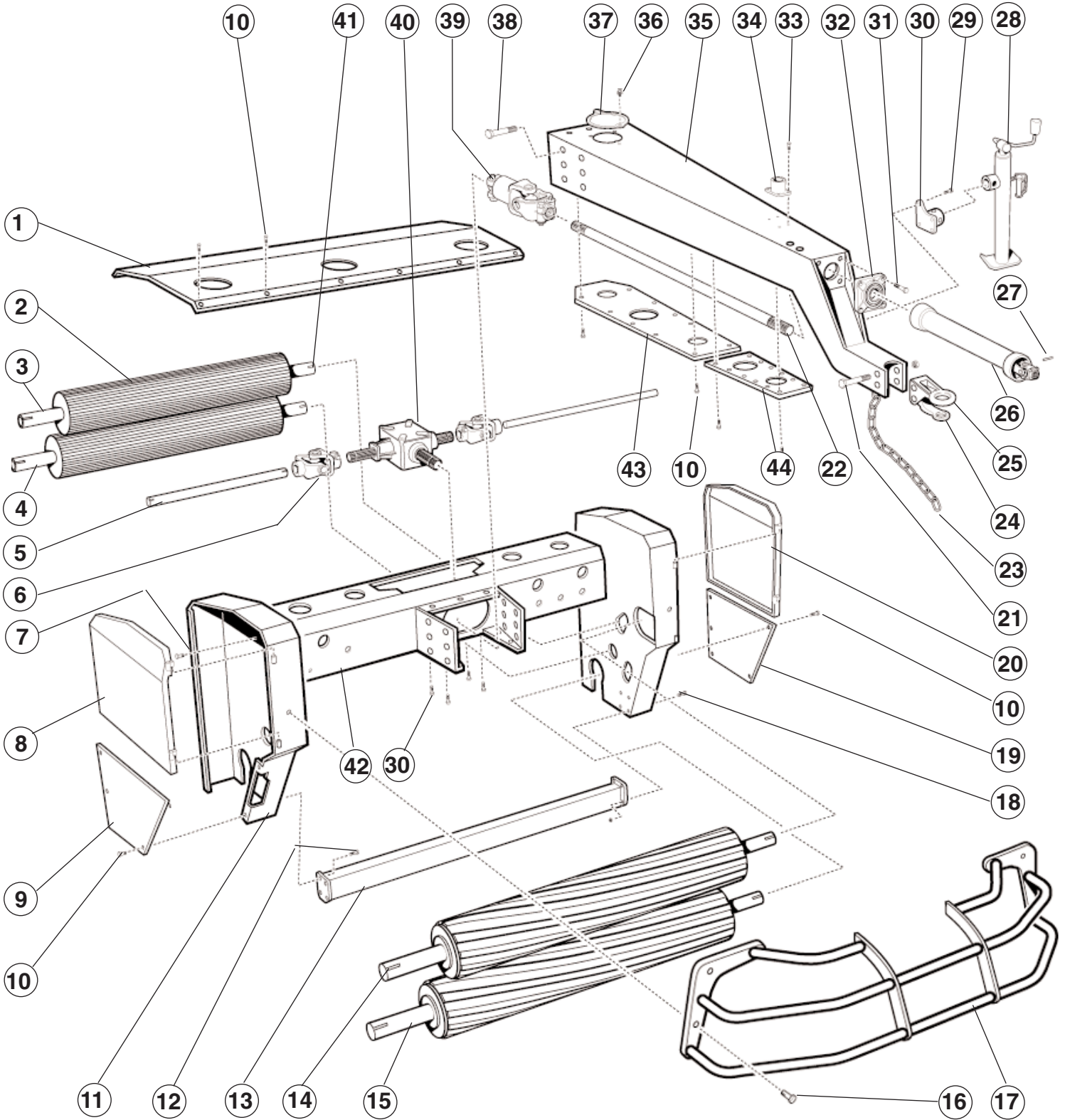
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**IMPORTANT:** When ordering parts, please specify model, serial number and ordering number.

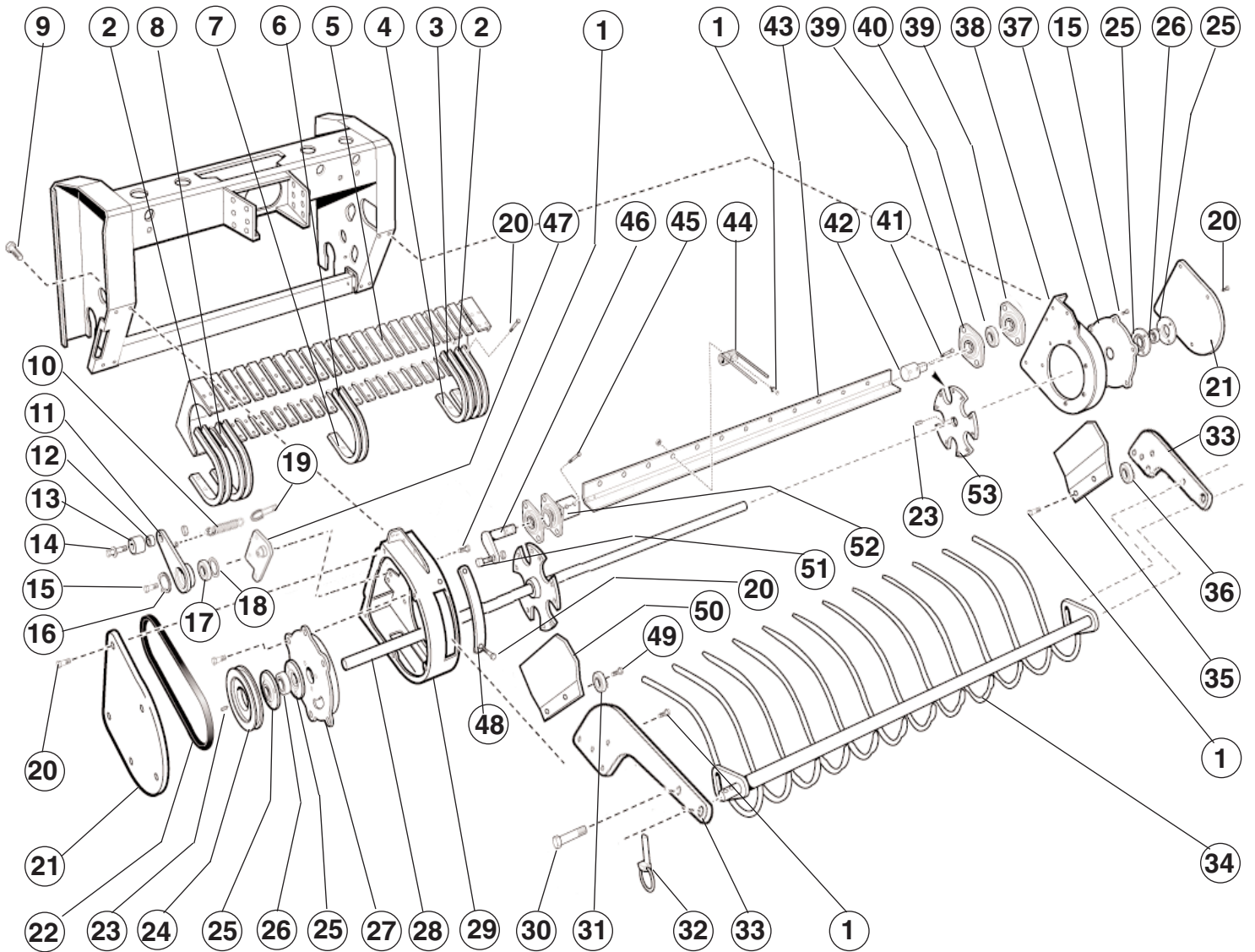
# MAIN FRAME & ROLLER ASSEMBLY



## MAIN FRAME & ROLLER ASSEMBLY

Item No.	Ordering Number	No. Required	Description
1	MC241	1	Top Cover
2	MC76W1	2	Steel Roller Tube
3	MC761T	1	Top Steel Roller Shaft
4	MC760B	1	Bottom Steel Roller Shaft
5	MC2271	2	Drive Stub Shaft
6	MC616	2	U Joint
7	BOS28045	8	7/16 x 1" Std. Bolt
8	MC21W6AR	1	Door - Right hand
9	MC216R	1	Bottom side cover - Right hand
10	BOC20035	46	5/16 x 3/4" Flange Bolt
11	MC21W2	1	Main Frame - right hand
12	BOC28045	8	7/16 x 1" Carriage Bolt and Flange Nut
13	MC21W8	1	Cylinder Cross Beam
14	MC770	1	Top Rubber Roller
15	MC771	1	Bottom Rubber Roller
16	BOC24035	4	3/8 x 3/4" Carriage Bolt
17	MC31W1	1	Guard
18	MC21W1	1	Main Frame - Left Hand
19	MC216L	1	Bottom side cover - Left hand
20	MC21W6AL	1	Door - Left hand
21	BOS40185	2	5/8 X 4 1/2" Bolt, Lock Washer & Nut
22	MC615	1	Drive Shaft
23	MC740	1	Travel Safety Chain
24	MC631	1	Hitch clevis PP1-107 VR
25	MC630	1	Cast Hitch Top - PP1-126VR
26	MC612	1	PTO Drive Shaft for <b>1000 RPM</b>
26	MC612A	1	PTO Drive Shaft for <b>540 RPM</b>
27	BOSM10708	1	Shear Pin
28	MC640	1	Side Wind Jack
29	BOF24045	4	3/8 X 1" Flange Bolt
30	MC21W5C	1	Jack Mount Bracket
31	BOS40065	8	5/8 X 1 1/2" Bolt
32	MC512	1	4 Bolt Flange Bearing
33	BOF24035	4	3/8 x 3/4 Flange Bolt
34	MC21W5D	1	Jack Storage Bracket
35	MC21W5	1	Main Frame Hitch
36	BOS20085	1	5/16 x 2" Hex Bolt With Spring And Nylon Locknut
37	MC215C	1	Over ride Clutch Service Cover
38	BOC40065	14	5/8 x 1 1/2" Carriage Bolt/ Nut
39	MC617	1	Override clutch
40	MC611	1	Gear Box for <b>1000 RPM</b>
40	MC611A	1	Gear Box for <b>540 RPM</b>
41	MC760H	4	Steel Roller Hub B-106
42	MC21W3	1	Main Cross Beam
43	MC215B	1	A-Frame Cover Back
44	MC215A	1	A-Frame Cover Front

PICK UP

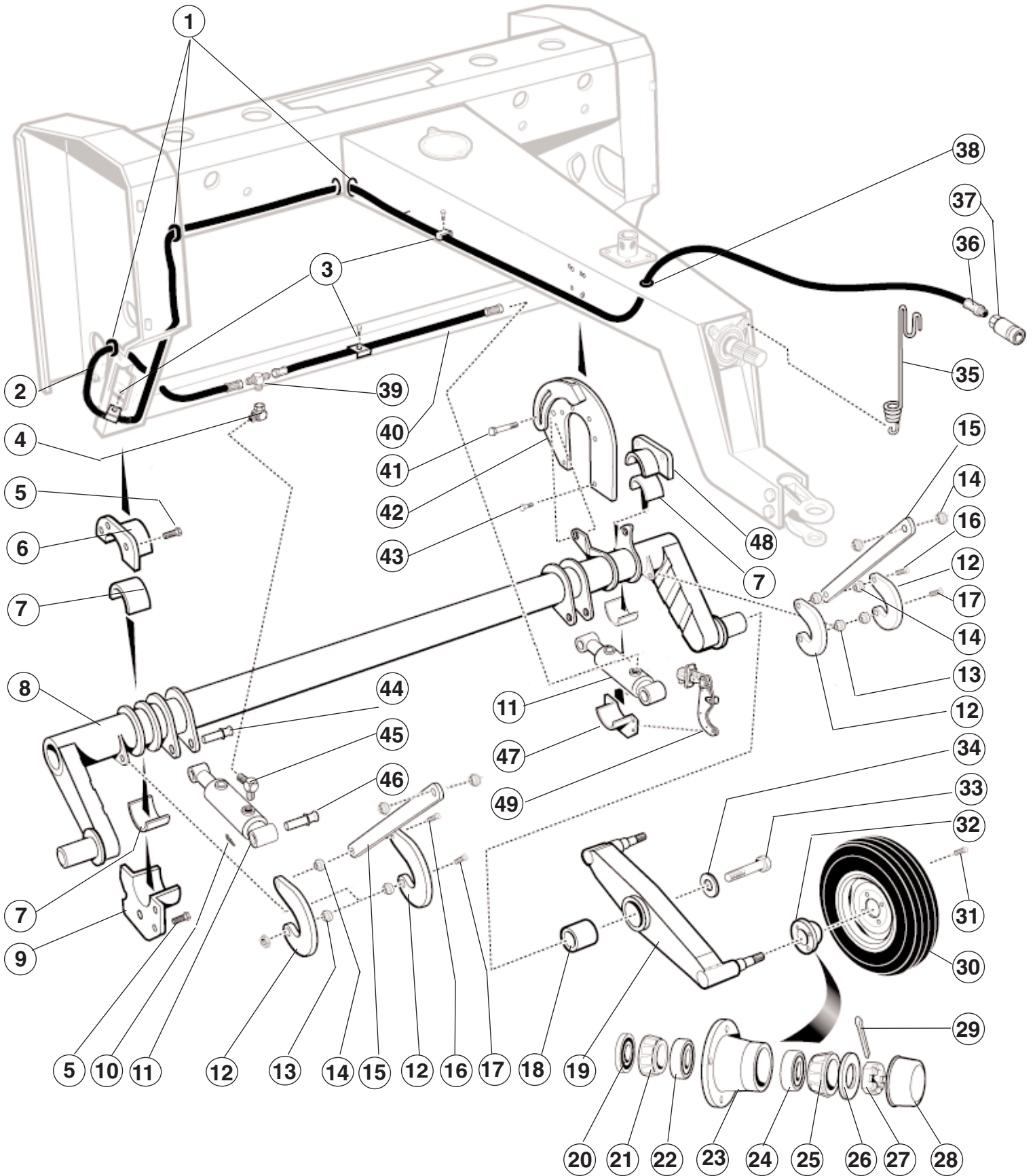




## PICK UP

Item No.	Ordering Number	No. Required	Description
1	BOF24045	68	3/8 x 1" Flange Bolt & Nut
2	MC11W4	2	End Pickup Wrapper
3	MC114SL	1	Pickup Wrapper - Short
4	MC114B	2	Pickup Wrapper - Small
5	MC11W1	1	Pickup Crossing
6	MC114	23	Pickup Wrapper
7	MC114A	27	Pickup Wrapper Spacer
8	MC114SR	1	Pickup Wrapper Spacer
9	BOF28045	8	7/16 x 1" Flange Bolt
10	MC832	1	Spring
11	MC12W5	1	Tightener Arm
12	MC125B	1	5/8 ID Spacer
13	MC830S	1	AG2352 Idler Pulley
14	BOS40085	1	5/8 x 2" Hex Head Bolt and Nut
15	BOF24045	23	3/8 x 1" flange bolt
16	WAF24	1	3/8" washer
17	MC506	1	1630 Ball Bearing
18	MC517	1	CR162 Snap Ring
19	MC12W6	1	Eye Bolt
20	BOF20035	126	5/16" x 3/4" Flange Bolt
21	MC112	2	Pickup Cover
22	MC839	1	BX53 V Belt
23	KE1605	3	1/4 x 1 1/4" Key
24	MC827S	1	MBL127 Pulley
25	MC516	4	3 Bolt Press Steel Flange
26	MC513	2	Bearing - 1 1/4" Self Aligning
27	MC122	1	Cam Track
28	MC134	1	Main Pickup Shaft
29	MC11W3	1	Pickup Frame - Right hand
30	BOSH40085	2	5/8 x 1" Socket Head Cap Screw & Nut
31	MC115A	1	Spacer, pickup shield
32	MC743	2	7/16 x 1 9/16 Lynch Pin
33	MC141	2	Comb Arm
34	MC14W3	1	Comb
35	MC115L	1	Pickup Deflector - Left hand
36	MC248C	1	Spacer, Pickup Shield
37	MC12W1	1	Bearing Holder Plate
38	MC11W2	1	Pickup Frame - Left hand
39	MC515	20	2 Bolt Press Steel Flange
40	MC514	10	1" Bearing- Self Aligning
41	BOS20105	10	5/16 x 2 1/2" Std. Hex. Head Bolt
42	MC133A	5	Tooth Bar Shaft
43	MC1311	5	Tooth Bar
44	MC750	60	Tooth
45	BOSH20085	10	5/16 x 2" Socket Head Cap Screw
46	MC13W3	5	Cam Arm
47	MC12W4	1	Tightener Arm Bracket
48	MC113	1	Access Cover
49	BOS24115	1	3/8 x 2 3/4" Std. Bolt & Nut
50	MC115R	1	Pickup Deflector- Right hand
51	MC511	5	Stud Bearing (CRSB20), Spacer & Nut
52	MC1312	5	Tooth Bar Block
53	MC13W2	2	Bearing Bracket Wheel

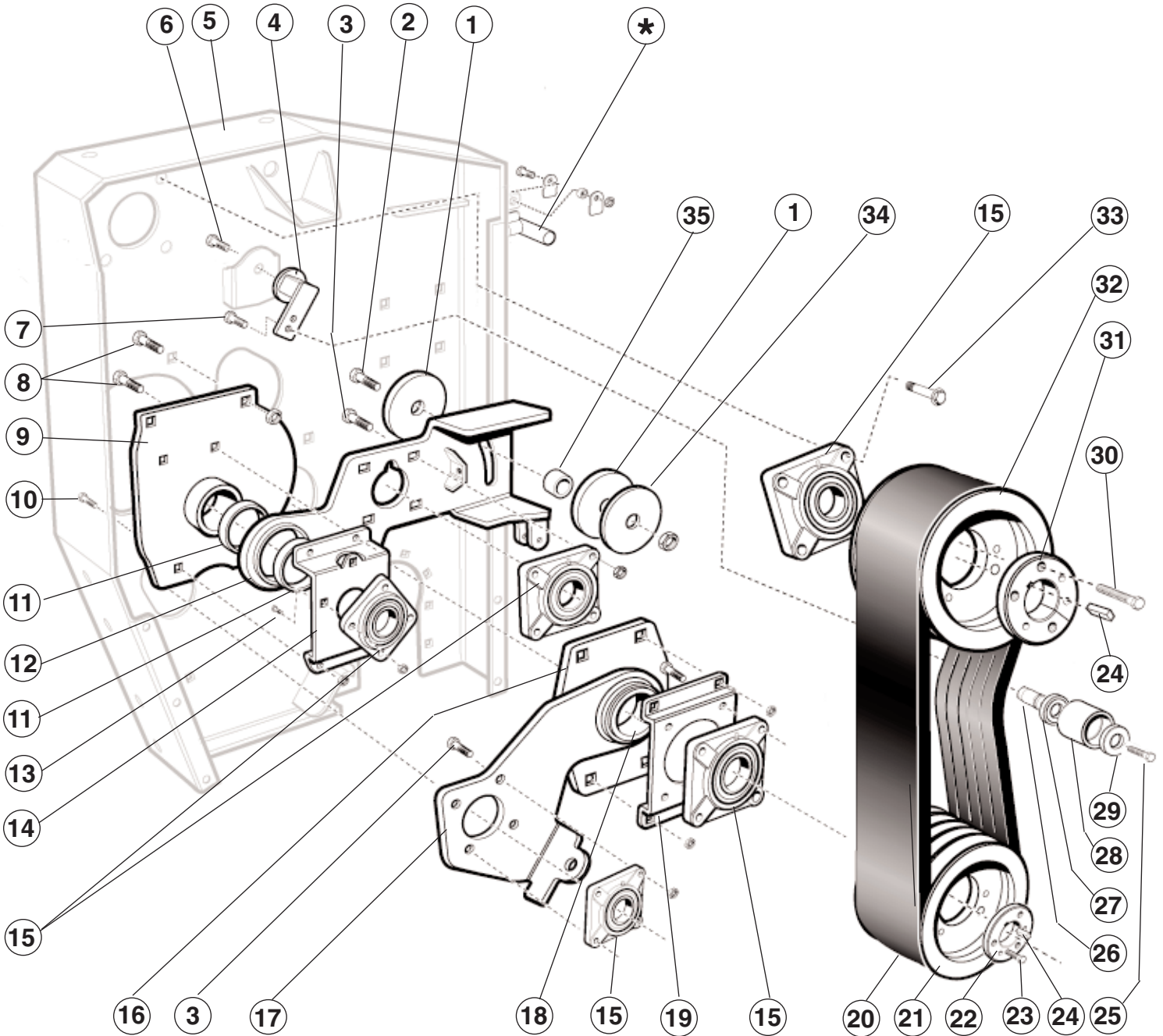
# AXLE, WHEEL AND HYDRAULICS



## AXLE, WHEEL AND HYDRAULICS

Item No.	Ordering Number	No. Required	Description
1	MC725	3	1.48 x .75 x .25" Grommet
2	MC712	1	Hydraulic Hose - Long
3	MC215F	3	Hose Clamp
4	MC714	1	45° Elbow
5	BOC28055	9	7/16 x 1 1/4" Carriage bolt & Flange Nut
6	MC21W7R	1	Axle Seat R/H
7	MC217	4	Axle Bushing
8	MC23W1	1	Axle
9	MC21W4R	1	Axle Support R/H
10	MC722	8	R Clip
11	MC711	2	Hydraulic Cylinder
12	MC232	4	Roller Lift Bracket
13	MC232M	4	Lift Bracket Bushing
14	MC233M	8	Lift Arm Bushing
15	MC233	2	Roller Lift arm
16	BOS32108	4	1/2 x 2 1/2" Bolt & Nut
17	BOS32118	2	1/2 x 2 3/4" Bolt & Nut
18	MC235	2	Walking Beam Bushing
19	MC23W5	2	Walking beam
20	MC552	4	Oil Seal
21	MC553	4	LM603049 Bearing
22	MC554	4	Race
23	MC551	4	Wheel Hub
24	MC556	4	Race
25	MC555	4	LM48548 Bearing
26	MC561	4	Washer
27	MC557	4	Nut
28	MC559	4	Hub Cap
29	MC558	4	Cotter Pin
30	MC550	4	Wheel, Tire And Rim
31	MC560	24	Wheel Bolt
32	MC551-9	4	Wheel Hub Assembly
33	BOS40068	2	5/8 x 1 1/2" Hex Bolt
34	MC237	2	Washer
35	MC723	1	Hose Holder
36	MC718	1	Flow Restrictor
37	MC717	1	Quick Coupler
38	MC726	1	1.25 x .75 x .09" Grommet
39	MC716	1	3/8" NPT Tee
40	MC713	1	Hydraulic Hose - Short
41	MC741	1	Travel Safety Pin
42	MC21W9	1	Travel Safety Bracket
43	BOC28065	7	7/16 x 1 1/2" Carriage Bolt / Flange Nut
44	MC720	2	1 x 3 1/2" Cylinder Pin
45	MC715	1	90° Hydraulic Elbow
46	MC721	2	1 x 5" Cylinder Pin
47	MC21W4L	1	Axle Support L/H
48	MC21W7L	1	Axle Seat L/H4
49	-	1	Height adjuster see page 28 for details

LEFT SIDE

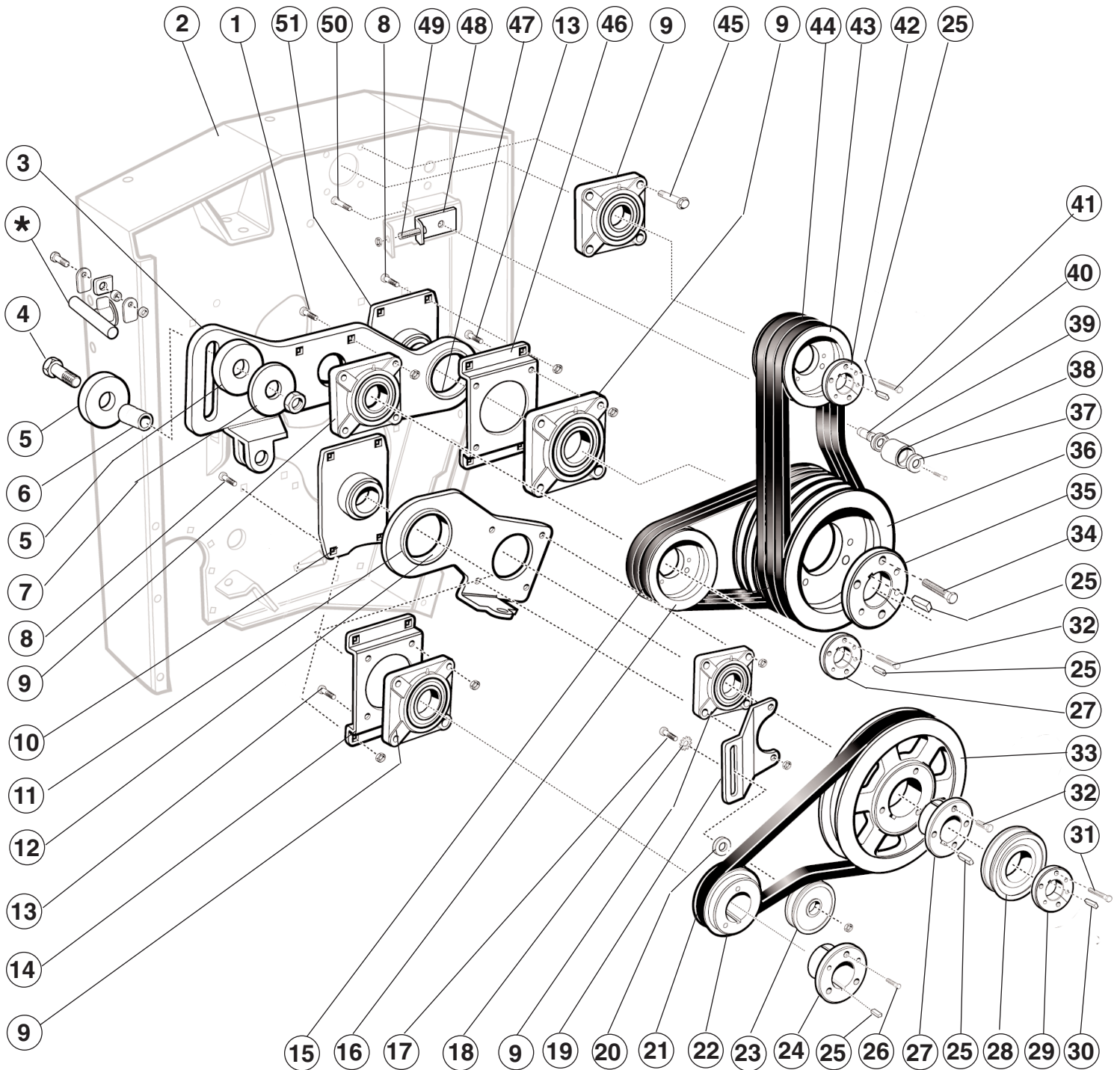


\* See Gap adjuster on page 33

## LEFT SIDE

Item No.	Ordering Number	No. Required	Description
1	MC225	2	Guide Washer
2	BOC40125	1	5/8 x 3" Carriage Bolt & Nylon Lock Nut
3	BOC40085	8	5/8 x 2" Carriage Bolt & Flange Nut
4	MCSE38	1	Tightener
5	MC21W1	1	Main Frame L/H Side
6	BOSM16405	1	16mm x 40mm Bolt
7	BOS48055	1	3/4 x 1 1/4" Standard Bolt
8	BOC32045	4	1/2 x 1" Carriage Bolt & Flange Nut
9	MC22W2	1	Pivot Arm Holder
10	BOC32055	6	1/2 x 1 1/4" Carriage Bolt
11	MC221A	2	Pivot Bushing
12	MC22W5L	1	Steel Roller Pivot Arm L/H
13	BOC40065	8	5/8 x 1 1/2" Carriage Bolt & Flange Nut
14	MC222A	1	Rubber Roller Bearing Bracket
15	MC512	5	4 Bolt Flange bearing
16	MC22W1	1	Pivot Arm Holder
17	MC22W4L	1	Rubber Roller Pivot Arm L/H
18	MC221	1	Pivot Bushing
19	MC223	1	Roller Bearing Bracket
20	MC837	1	5VX780 5 Banded Drive Belt
21	MC825S	1	5-5V7.5 Pulley
22	MC816S	1	SF 1 3/4" Hub
23	BOS24085	3	3/8 x 2" Bolt
24	KE 2408	2	3/8 x 2" Key
25	BOS40045	1	5/8 x 1" Bolt & Flat Washer
26	MC226E	1	Idler Shaft
27	MC508	1	6208 Bearing
28	MC226F	1	Idler Roller
29	MC510	1	6307 Bearing
30	BOS32115	3	1/2 x 2 3/4" Grade 5 Bolt
31	MC811S	1	E 1 3/4" Hub
32	MC824S	1	5-5V11.3 Pulley
33	BOS40085	4	5/8 x 2" Std Bolt
34	MC225A	1	2 3/4" Washer
35	MC225B	1	Spacer Pipe

RIGHT SIDE

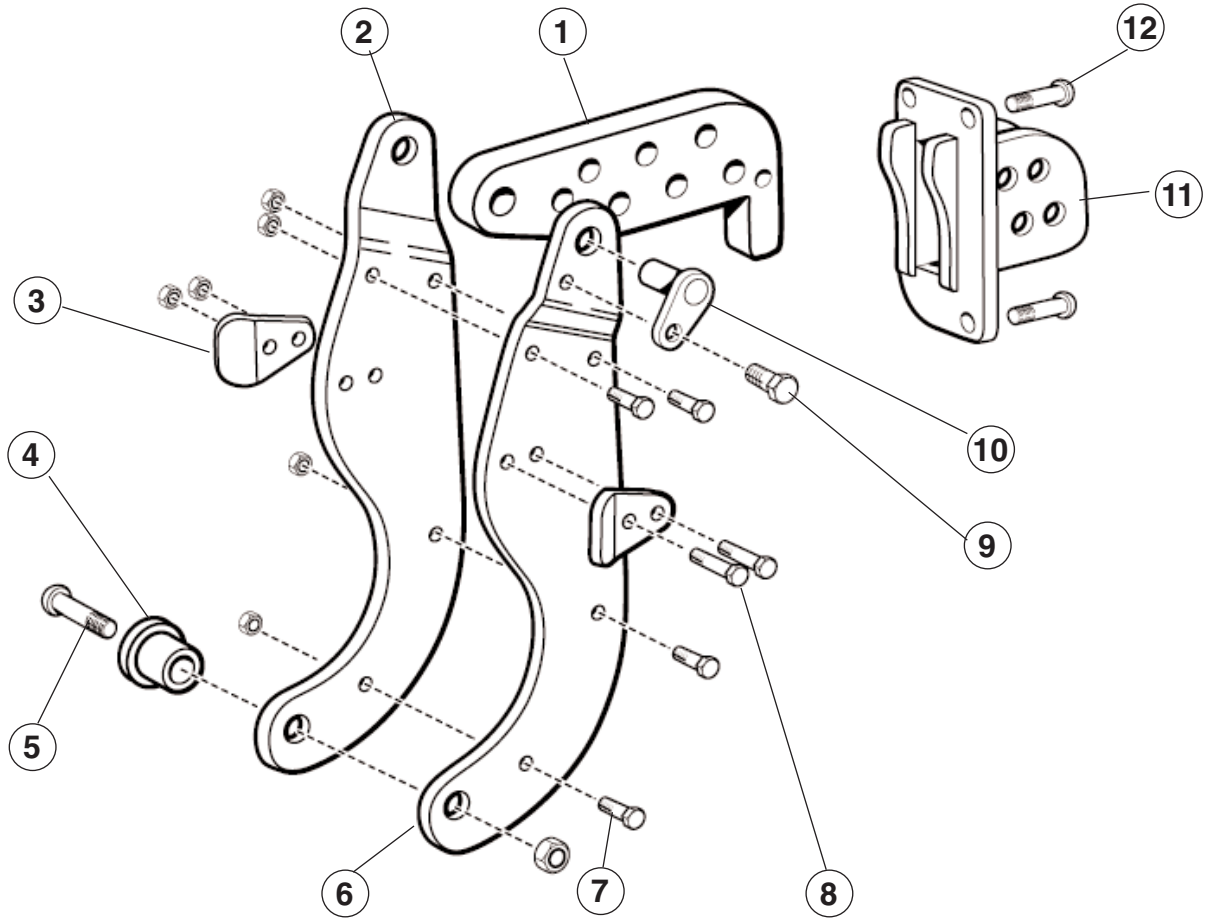


\*See Gap Adjuster on page 33

## RIGHT SIDE

Item No.	Ordering Number	No. Required	Description
1	BOC40085	8	5/8 x 2" Carriage Bolt / Reg Nut
2	MC21W2	1	Main Frame Right Hand Side
3	MC22W5R	1	Steel Roller Pivot Arm
4	BOC40125	1	5/8 x 3" Carriage Bolt / Reg Nut
5	MC225	2	Guide Washer
6	MC225B	1	Spacer Pipe
7	MC225A	1	2 3/4" Washer
8	BOC32055	8	1/2 x 1 1/4" Carriage Bolt / Flange nut
9	MC512	5	4 Bolt Flange Bearing
10	MC22W1	1	Pivot Arm Holder
11	MC22W4R	1	Rubber Roller Pivot Arm R/H
12	MC221	1	Pivot Bushing
13	BOC40065	8	5/8 x 1 1/2" Carriage Bolt/ Standard Nut
14	MC223	2	Roller Bearing Bracket
15	MC835	1	5VX450 3 Banded Drive Belt
16	MC822S	1	3-5V5.2 Pulley
17	MC255B	1	Flattened Carriage Bolt
18	MC255A	1	Belt Tightener Sprocket
19	MC25W5	1	Belt Tightening Bracket
20	MC125B	1	Spacer Belt Tightener
21	MC838	1	BX36 Belt
22	MC820S	1	1TB34 Pulley
23	MC830S	1	AG2352 Idler Pulley
24	MC814	1	P1 1 3/4" Hub
25	KE2408	5	3/8 x 2" Key
26	BOS20045	3	5/16 x 1" Hex Head Bolt
27	MC815S	2	SDS 1 3/4" Hub
28	MC828S	1	MBL33 Pulley
29	MC812S	1	L 1 1/4" Hub
30	KE1605	1	1/4 x 1 1/4" Key
31	BOS16045	2	1/4 x 1" Hex Head Bolt
32	BOS16055	6	1/4 x 1 1/4" Hex Head Bolt
33	MC821S	1	1B80 Pulley
34	BOS32115	3	1/2 x 2 3/4" Hex Head Bolt
35	MC811S	1	E 1 3/4" Hub
36	MC826S	1	6-5V10.9 Pulley
37	MC509	1	6305 Bearing
38	MC225H	1	Tube - Rubber Roller Drive, Idler
39	MC507	1	6206 Bearing
40	MC225G	1	Shaft - Rubber Roller Drive Tightener Spindle
41	BOS24085	3	3/8 x 2" Hex Head Bolt
42	MC816S	1	SF 1 3/4" Hub
43	MC823S	1	3-5V7.1 Pulley
44	MC836	1	5VX610 3 banded, Belt
45	BOS40085	4	5/8 x 2" Standard Bolt
46	MC222	1	Bearing Bracket - Rubber Roller
47	MC221A	2	Steel Roller Pivot Bushing
48	MC225F	1	Rubber Roller Drive Tightener Bracket
49	BOC32145	1	1/2 x 3 1/2" Carriage Bolt
50	BOC40145	1	5/8 x 3 1/2" Carriage Bolt

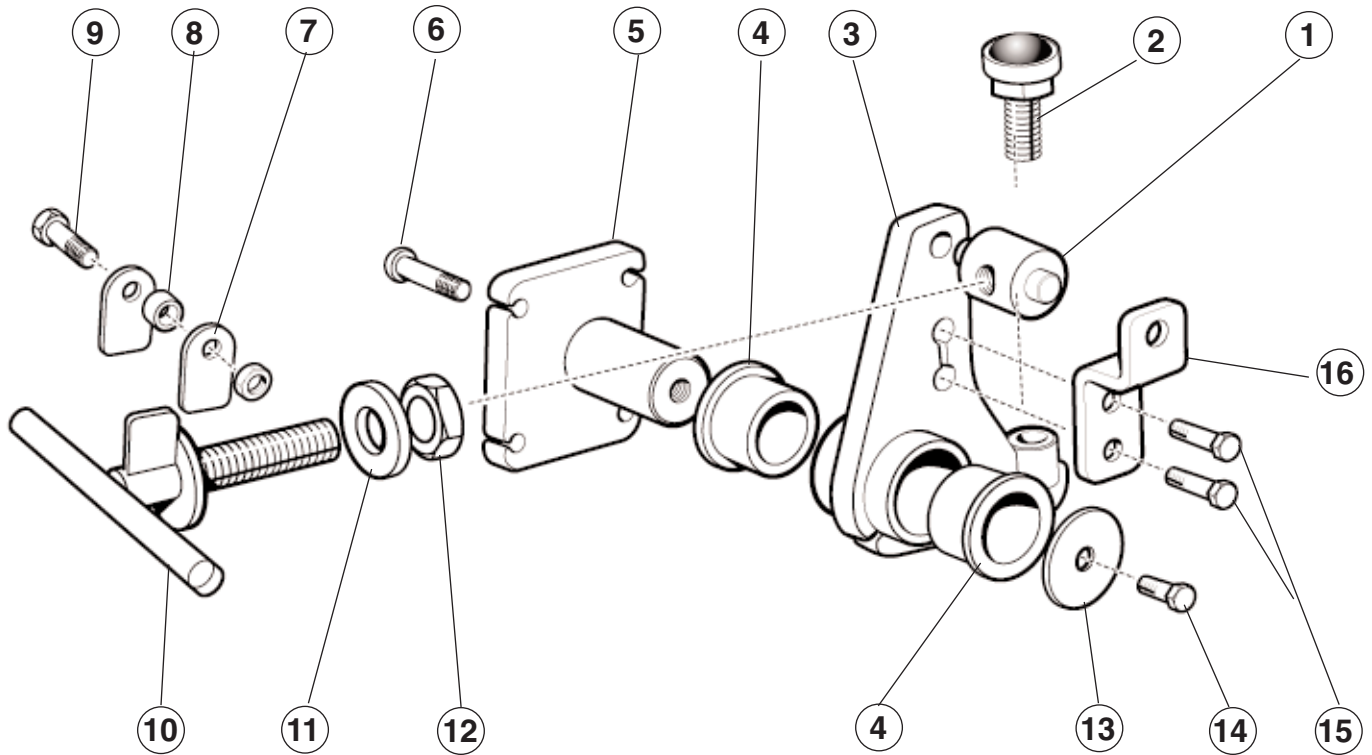
# HEIGHT ADJUSTERS



Item No.	Ordering Number	No. Required	Description
1	MC23W9	1	Height Adjuster Bar
2	MC238R	1	Height Adjuster Arm R/H
3	MC238A	2	Guide
4	MC238C	1	Height Adjuster Spacer Bushing
5	BOC40105	1	5/8 x 2 1/2" Carriage Bolt
6	MC238L	1	Height Adjuster Arm L/H
7	BOS24055	4	3/8 x 1 1/4" Hexagon Head Bolt and Nut
8	BOS24075	2	3/8 x 1 3/4" Hexagon Head Bolt and Nut
9	BOS32035	1	1/2 x 3/4" Standard Bolt
10	MC23W8A	1	Height Adjuster Arm Pin
11	MC23W8	1	Height Adjuster Bracket
12	BOC28045	3	7/16 x 1" Carriage Bolt



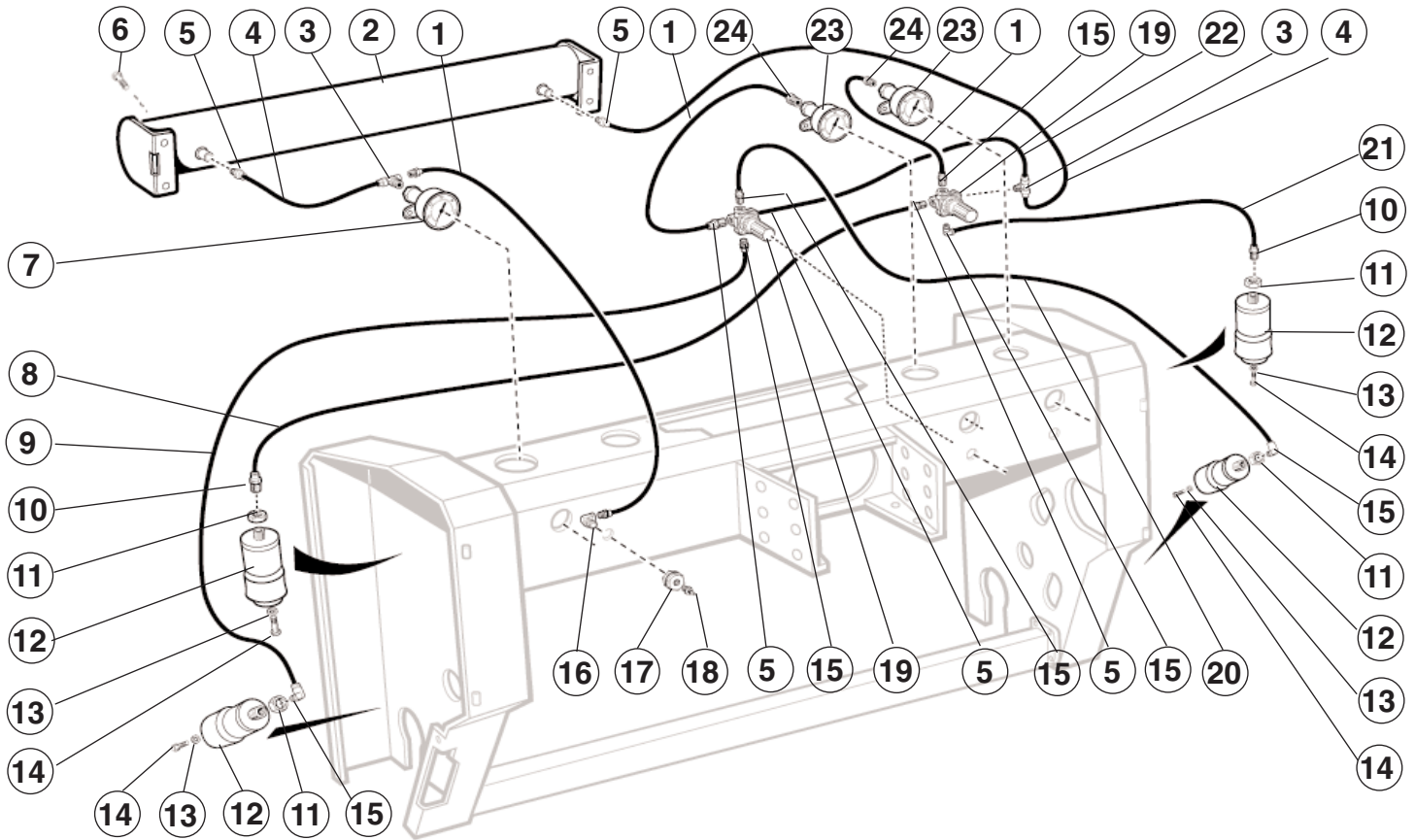
GAP ADJUSTERS



Item No.	Ordering Number	No. Required (Each Side)	Description
1	MC228D	1	Swivel Nut - Rubber Bumper Adjuster
2	MC22W3	1	Rubber Bumper
3	MC22W8R	1	Rubber Bumper Pivot Arm - R/H (Shown Above)
3	MC22W8L	1	Rubber Bumper Pivot Arm -L/H (Opposite side of machine - Not Shown)
4	MC228A	2	Bushings
5	MC22W9	1	Rubber Bumper Pivot
6	BOC32085	4	1/2 x 1 1/2" Carriage Bolt
7	MC254A	2	Crank Lock
8	MC248C	1	Spacer Bushing
9	BOS24055	1	3/8 x 1 1/4" Hexagon Head Bolt and Nut
10	MC25W4	1	Rubber Bumper Crank
11	MC254B	1	Spacer
12	NUTSJ64	1	1" Jam Nut
13	MC225A	1	Washer
14	BOS40045	1	5/8 x 1" Hexagon Head Bolt
15	BOS32075	2	1/2 x 1 3/4" Hexagon Head Bolt
16	MC228C	1	Swivel Nut Holder

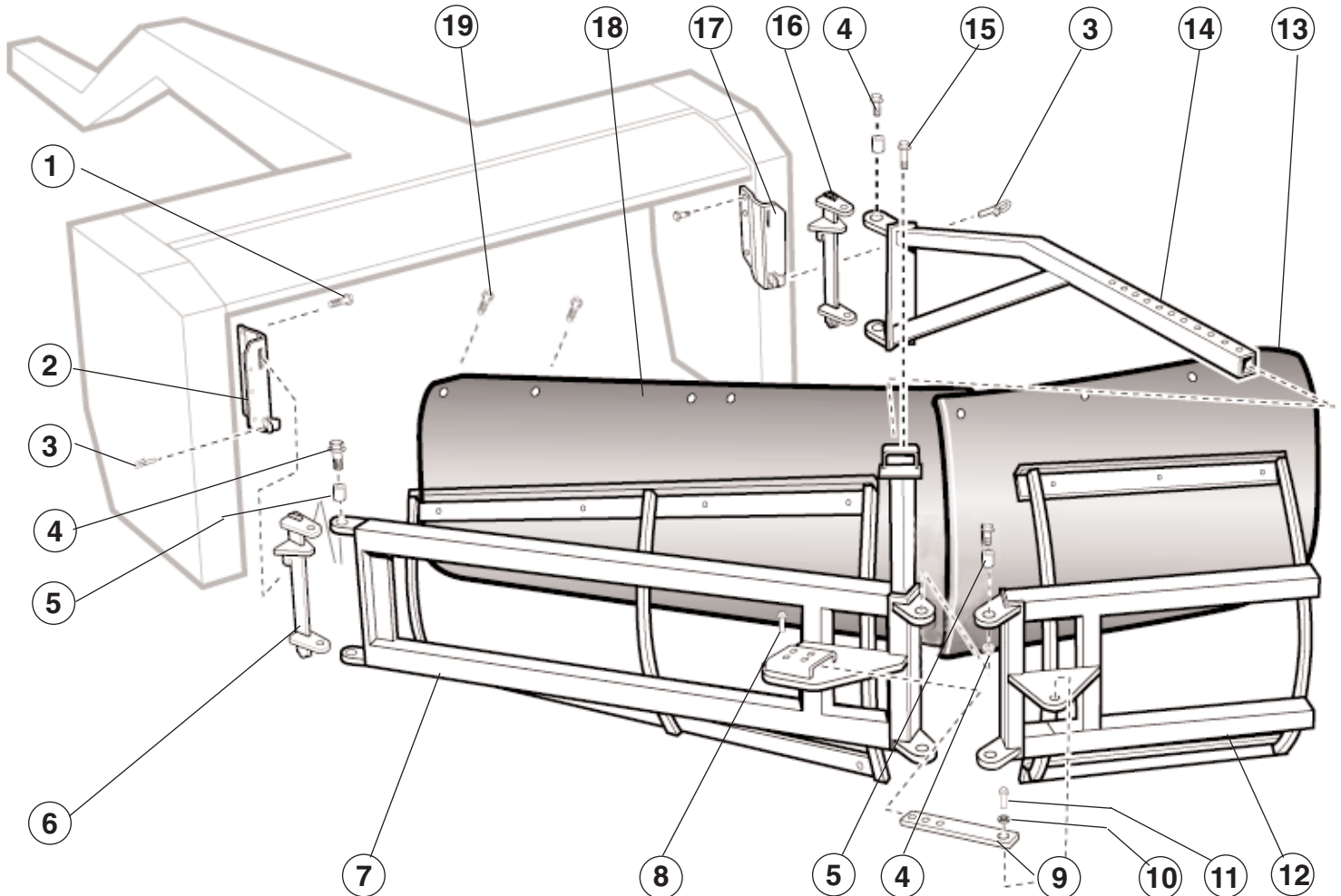
**IMPORTANT:** When ordering parts, please specify model, serial number and ordering number

AIR SYSTEM



Item No.	Ordering Number	No. Required	Description
1	MC912A	3	8" Hose
2	MC24W3	1	Air Tank
3	MC922	2	Tee
4	MC912B	2	18" Hose
5	MC919	5	1/4 x 1/4" Straight Fitting
6	BOF24055	4	3/8 x 1" Flange Bolt/Nut
7	MC914	1	Air Tank Pressure gauge
8	MC912G	1	110" Hose
9	MC912F	1	83" Hose
10	MC918	2	1/8 x 1/4" Straight Fitting
11	MC923	4	3/4" Fine thread jam nut
12	MC910	4	Air bag
13	WAL32	4	1/2" Spring Washer
14	BOS32055	4	1/2 x 1 1/4" Standard Bolts
15	MC920	6	1/8" male x 1/4" hose end Elbow
16	MC924	1	1/4 x 1/4" Elbow
17	MC915	1	Bulkhead Fitting
18	MC916	1	Shrader Valve
19	MC911	2	Regulator
20	MC912E	1	73" Hose
21	MC912D	1	29" Hose
22	MC912C	1	14 1/2" Hose
23	MC913	2	Roller Pressure Gauge
24	MC921	2	1/4" female end x 1/4" hose end Elbow
25	MC912	30'6"	Tubing (enough for replacement of all tubes, not cut)

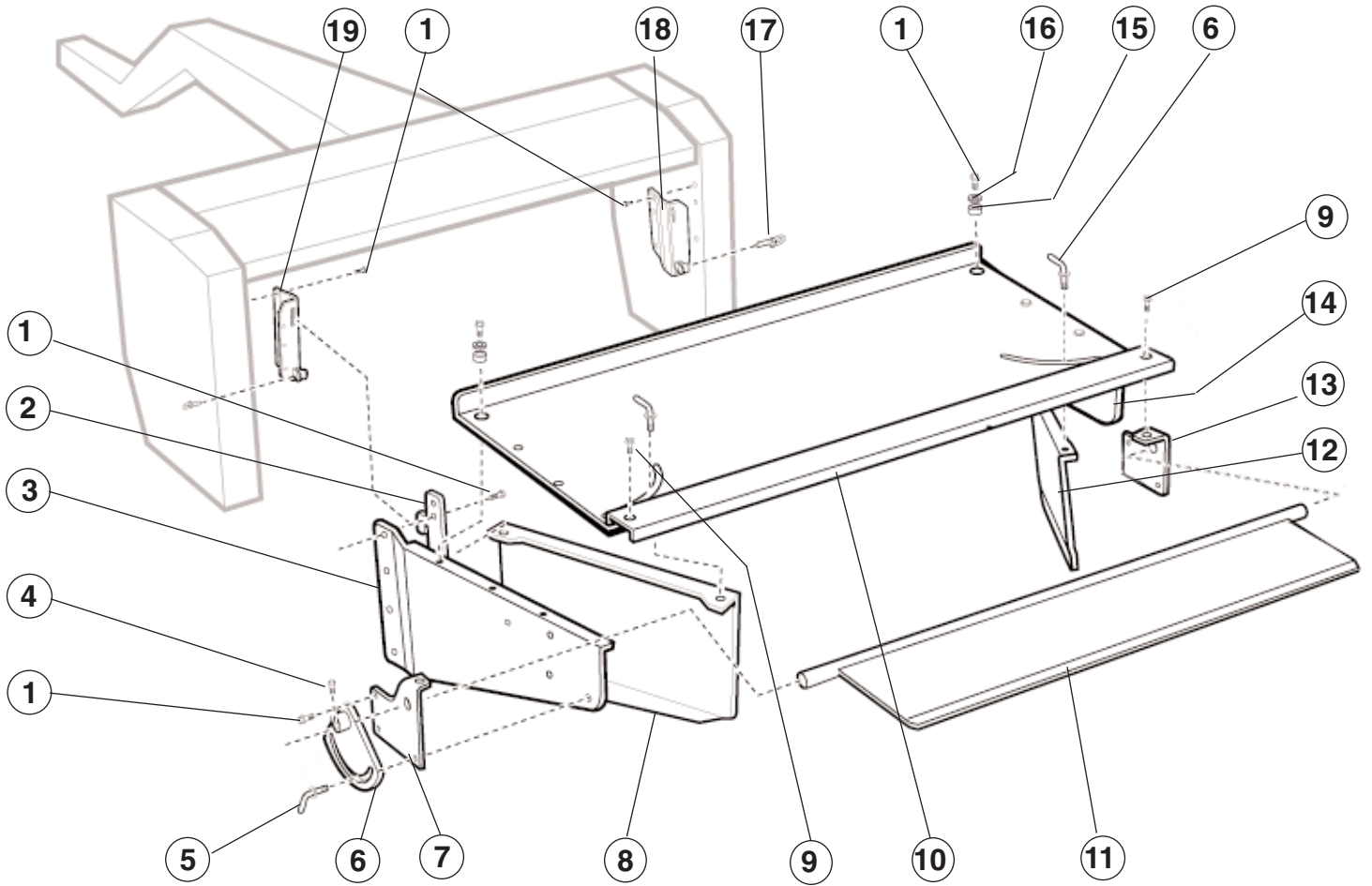
# MOLD BOARD ATTACHMENT



Item No.	Ordering Number	No. Required	Description
1	BOF24045	12	3/8 x 1" Flange Bolt
2	MC24W6L	1	Quick Attach Bracket L/H
3	MC743	2	Lynch Pin
4	BOS32055	6	1/2 x 1 1/4" Bolt & Nut
5	MB124	6	Pivot Bushing
6	MB12W2	1	Mold Board Quick Attach Hook L/H
7	MB12W3	1	Mold Board Main Frame
8	MB126P	1	Adjuster Pin 1/2" x 1 1/2"
9	MB126	1	Extension Adjuster Bar
10	MB123L	1	Bushing
11	BOS32065	1	1/2 x 1 1/2" Bolt And Nut
12	MB12W4	1	Mold Board Extension Frame
13	MB122E	1	Mold Board Extension
14	MB12W5	1	Adjuster Arm
15	MB125P	1	Adjuster Pin 1/2 x 4"
16	MB12W1	1	Mold Board Quick Attach Hook R/H
17	MC24W6R	1	Quick Attach Bracket R/H
18	MB122	1	Mold Board
19	BOC20035	14	5/16 x 3/4" Carriage Bolt

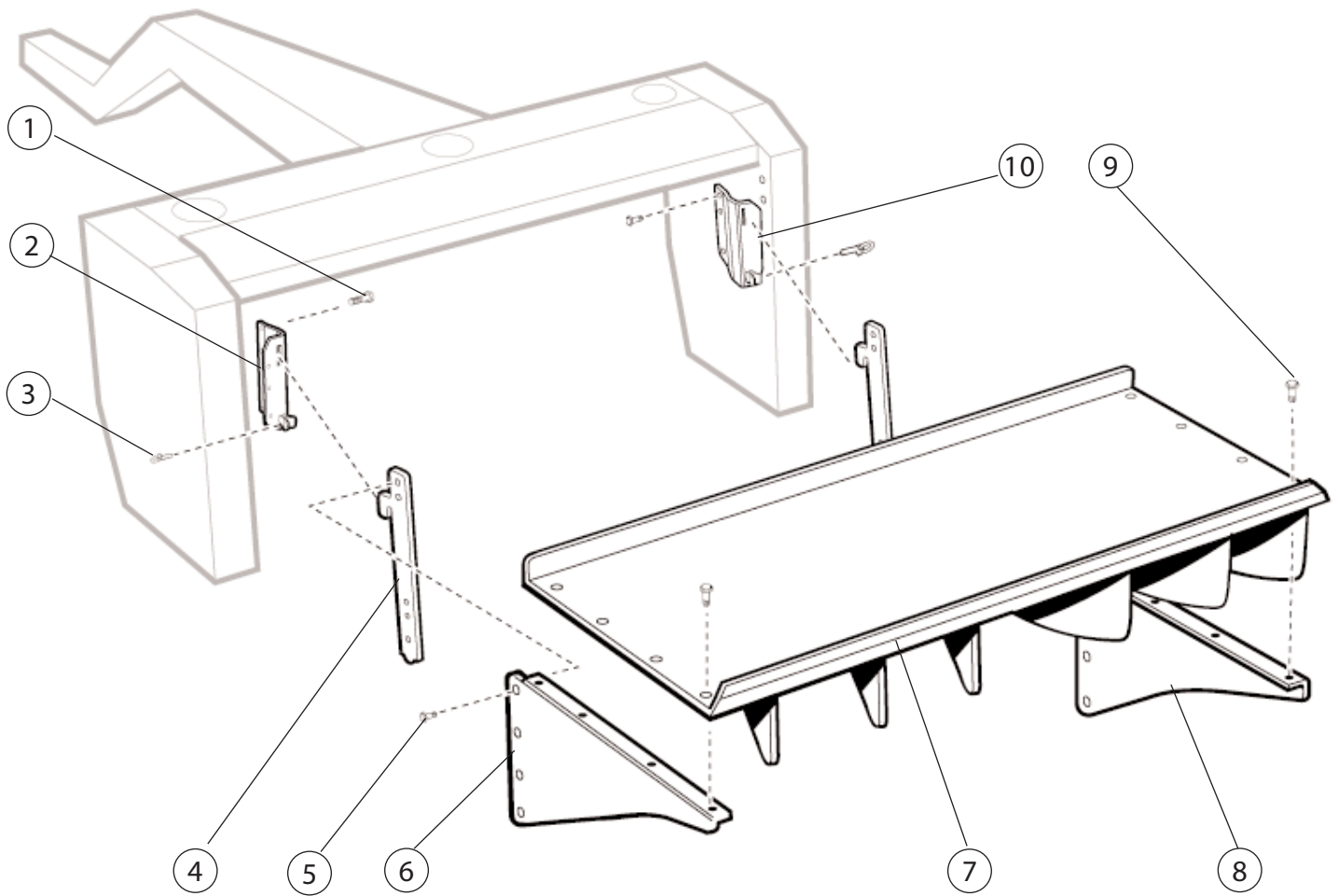
**IMPORTANT:** When ordering parts, please specify model, serial number and ordering number.

WINDROWER



Item No.	Ordering Number	No. Required	Description
1	BOF24045	27	3/8 x 1" Flange Bolt
2	MC248D	2	Quick Attach Hook
3	MC248A	1	Windrower Support - L/H
4	BOSH20065	1	5/16 x 1 1/2" Socket Head Cap Screw
5	MC24W8F	3	3/8 x 1" Wing Bolt
6	MC24W2	1	Shoot Adjuster Slide
7	MC24W8	1	Shoot Adjuster Bracket - L/H
8	MC24W8CL	1	Windrower Width Adjuster - L/H
9	BOF20035	10	5/16 x 3/4" Flange Bolt
10	MC248	1	Windrower Top
11	MC24W1	1	Shoot Adjuster Plate
12	MC24W8CR	1	Windrower Width Adjuster - R/H
13	MC24W9	1	Shoot Adjuster Bracket - R/H
14	MC24W8B	1	Windrower Support - R/H
15	MC248C	2	Windrower Bushing
16	WAF28	5	7/16" Washer
17	MC743	2	Lynch Pin
18	MC24W6R	1	Quick Attach Bracket R/H
19	MC24W6L	1	Quick Attach Bracket L/H

# SWATH SPREADER



Item No.	Ordering Number	No. Required	Description
1	BOF24045	12	3/8 x 10 Flange Bolts
2	MC24W6L	1	Quick Attach Bracket L/H
3	MC743	2	Lynch Pin
4	MC248D	2	Quick Attach Hook
5	BOF20035	8	5/16 x 3/4 Flange Bolt
6	MC24W7A	1	Spreader Support L/H
7	MC24W7	1	Spreader Top
8	MC24W7B	1	Spreader support R/H
9	BOF20035	8	5/16 x 3/4 Flange Bolt
10	MC24W6R	1	Quick Attach Bracket R/H

# LIMITED WARRANTY

Warranty service will be performed by an AgLand Dealer authorized to sell the Macerator

## AgLand Warranty

AgLand Industries Inc. manufactures the AgLand Macerator. AgLand Industries Inc. ("Manufacturer") warrants each Macerator sold by it to be free of defects in material or workmanship under normal use and service. The sole obligation of the Manufacturer is limited to repairing or replacing, as the Manufacturer may elect, any part or parts that prove, in the Manufacturer's judgment, to be defective in material or workmanship within one year\* after delivery to the original Retail Purchaser under normal farm use. (\*3 months after delivery when purchased by a commercial operator.) The defective part or parts will be replaced or repaired only to the original Retail Purchaser. Warranty repair or replacement will be done at the location of the AgLand dealer who sold the Macerator. Defective parts must be returned to the Manufacturer or Dealer who sold the Macerator at the expense of the Retail Purchaser to be inspected by the Manufacturer. Purchaser must give written notice to the Dealer from whom the Macerator was purchased of any claimed defect and the Dealer will repair or replace the part or parts found to be defective.

**Note: The sole remedy of The Purchaser for a claim under this warranty is the repair or replacement of defective parts.**

This warranty does not extend to the drive components or tires, which are made by other manufacturers and carry warranties from said manufacturers. There are no representations, warranties, or conditions, express or implied, statutory or otherwise, except those herein contained and no agreement collateral otherwise except those herein contained, and no agreement collateral hereto shall be binding upon either party unless in writing hereon or attached hereto, signed by the Purchaser and accepted by the Manufacturer at its head office.

## Service and Warranty Information

The Manufacturer's liability under this warranty is limited to the repairing or replacing of parts only, and the Manufacturer shall in no event be liable to the Retail Purchaser for consequential damage or loss of profits sustained by it as a result of any defect in material or workmanship on any of the equipment covered by this warranty.

The Macerator is warranted for agricultural use only. This warranty does not cover claims resulting from any use for other than agricultural applications.

Altering, modifying or adding additional equipment which is not approved for installation on the Macerator by the Manufacturer will void this warranty.

All warranties are subject to legislation of the state or province in which the Macerator is sold.

**Note: There are no warranties, express or implied, by the Manufacturer or its Dealer regarding the Macerator except the warranty against defects in the material or workmanship expressed herein. No person is authorized to bind The Manufacturer to any other warranty whatsoever.**

The Manufacturer reserves the right at any time to make changes in the design, material, parts or specifications of the Macerator without thereby becoming liable to make similar changes in equipment, machinery or parts previously manufactured.

AgLand Industries Inc.