INDUSTRIES

Bale Chopper

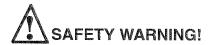


Introduction

This manual gives you assembly, operating, and service information for Self-Powered and PTO Model Bale Choppers. The Table of Contents directs you to the specific information you need.

A Bale Chopper can present hazards to an operator who follows unsafe procedures in either the operation or the maintenance of the unit. Therefore, SAFE-TY WARNINGS are presented at certain locations in the text.

Read and understand all instructional material included with the Bale Chopper or its components before assembling and operating the equipment.



- Never force material onto the cutting knives.
- Do not feed bales tied with wire into the Chopper.
- Wear approved eye and ear protection while operating the Bale Chopper.
- Keep hands and feet out of the tub. Never operate the Bale Chopper with the tub or the safety lid removed.
- Check bale tub for children, pets and foreign objects before operating.
- Allow the engine to cool sufficiently before adding gasoline. DO NOT allow smoking, sparks, or flames in the vicinity when adding gasoline.

- The area around the gasoline engine must be kept clear of flammable material. Periodically use the hose with no material in the machine to blow this area clean. Always keep a fire extinguisher near the Bale Chopper during operation.
- The battery, on Bale Choppers with electric start, can produce explosive gasses. Ventilate when charging or using in enclosed space. DO NOT produce sparks from cable clamps, tools, or other sources; and DO NOT allow flames or smoking in the vicinity of the battery. Shield eyes when working near the battery, and always keep the vent caps tight and level.
- Battery electrolyte is an acidic solution, which can cause severe burns if handled improperly. Observe all poison/danger warnings printed on electrolyte cartons and on the battery. Wear splash-proof goggles and protective clothing when adding electrolyte to batteries. Avoid contact of electrolyte with skin, eyes, or clothing. KEEP BATTERIES AND ELECTROLYTE OUT OF REACH OF CHILDREN. If electrolyte is spilled or splashed on the body, IMMEDIATELY FLUSH WITH WATER; if electrolyte comes into contact with the eyes, FLUSH WITH WATER FOR 15 MIN-**UTES AND GET PROMPT MEDICAL ATTENTION:** if electrolyte is taken internally, DRINK LARGE QUANTITIES OF WATER OR MILK, FOLLOWED WITH MILK OF MAGNESIA, BEATEN EGGS, OR **VEGETABLE OIL.**

Specifications:

BLOWER MODEL BALE CHOPPERS:

SELF-POWERED MODELS

- M NA5000PSME (11 hp.)
- MA6000 (13 hp.)
- MA8000ESME (18 hp.)
- MA8500ESME (18 hp.)

POWERED BY: 4-cycle Honda Gasoline Engine.

WIDTH: 31" HEIGHT: 51" LENGTH: 55" WEIGHT: 490 lbs. SHIPPING WT: 565 lbs. NUMBER OF KNIVES: 32 (NA8500ESME - 4) 4-BLADE IMPELLER: 16.5" dia. ADJUSTABLE GRATE ASSEMBLY

PTO MODELS

- NA1000PTOB
- NA1500PTOB

POWERED BY: 540 PTO

WIDTH: 31" HEIGHT: 55" LENGTH: 60" WEIGHT: 525 lbs. SHIPPING WT: 600 lbs.

NUMBER OF KNIVES: 32 4-BLADE IMPELLER: 16.5" dia. ADJUSTABLE GRATE ASSEMBLY

360° DIRECTIONAL SPOUT

360° DIRECTIONAL SPOUT HEIGHT: 48" SPOUT ROTATION: 360°

SUPER-FLEX HOSE

HOSE ADAPTER HEIGHT: 30"
SUPER-FLEX HOSE: 6" X 30' standard length

CUTTING TIME PER BALE*:

360° DIRECTIONAL SPOUT:
Approximately 20 Seconds
HOSE AND ADAPTER:
Approximately 30 Seconds

* Cutting time per bale may vary with different types of material. Times quoted are with dry straw bales fed continuously.

Superior construction in every model:

Every Goossen Bale Chopper has a durable polyester powder paint finish, electro-statically applied to cover completely and keep moisture out. This finish is extremely strong, and resists chipping and cracking.

Taper-locked sheaves and banded 3-belt drive ensure maximum efficiency and long life.

Goossen Industries, Inc., is continually striving to improve the design and performance of its products. We reserve the right to make changes in specificiations and design without thereby incurring any obligation relative to previously manufactured products.

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Description of Operation

BLOWER MODEL BALE CHOPPERS:

SELF-POWERED MODELS

- NA5000PSME (11 hp.)
- MA6000 (13 hp.)
- NA8000ESME (18 hp.)
- NA8500ESME (18 hp.)

PTO MODELS

- NA1000PTOB
- NA1500PTOB

The Goossen Bale Chopper, available in self-powered and PTO versions, chops and applies straw for erosion control, bedding and mulching. Depth of cut is easily adjustable while in operation, to handle a variety of materials* and conditions. The standard 30' hose provides even layering and pin-point placement. A 360° directional spout is available for broadcast applications.

*NOTE: Do not shred cardboard with a Goossen Bale Chopper. The density of cardboard will cause damage to cutting knives and to the rotor.

Assembly

ALL MODELS:

TUB COVER SAFETY SHIELD

Using the Hardware supplied:

- 1. Install the eyebolt through the top hole in the rear tub wall, with a flat washer, lockwasher and nut on each side of the wall.
- 2. Mount the tub to the tub base with the truss-head bolts, lockwashers and nuts provided. Put the bolt heads inside the tub to provide a smooth inside surface.
- 3. Insert a 5/16" bolt into each hole at the top of the tub and screw a 5/16" nut just past the first thread of each bolt. Put the front lip of the safety shield (lid) down *inside* the tub and screw one bolt into each coupler on the lid. Center the shield in the opening, then lock it into position by tightening the 5/16" nuts against the edges of the shield.
- 4. Connect the tensioning spring from the eyebolt to the hole in the rear of the safety shield.

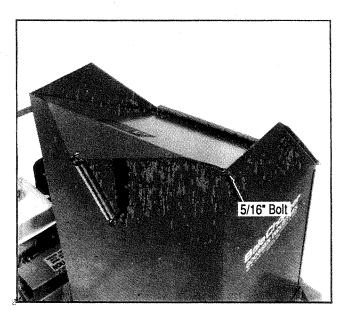


Figure 1. Safety Shield

BLOWER MODEL BALE CHOPPERS:

SUPER-FLEX HOSE AND ADAPTER

(PTO and Self-Powered Blower Models)

Using the hardware supplied:

- 1. Mount the hose adapter to the Bale Chopper. See Figure 2.
- 2. Attach the hose to the hose adapter with a 6" hose clamp, and secure the hose handle to the other end of the hose with two 6" hose clamps. See Figure 2.

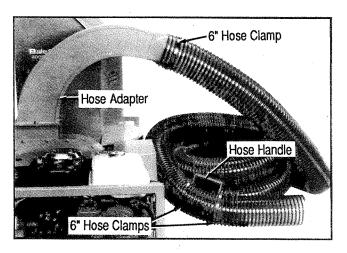


Figure 2. Super-flex Hose & Adapter

360° DIRECTIONAL SPOUT

(PTO and Self-Powered Blower Models)

Using the hardware supplied:

- 1. Attach the lower spout to the Bale Chopper. See Figure 3.
- 2. Mount the upper spout on the lower spout. Be sure to install the roller bearings as shown. See Figure 3.
- 3. Install the crank assembly. See Figure 3. If the sprocket teeth do not fully engage the ring on the upper spout, shim the crank assembly with washers. Lightly lubricate the sprocket teeth, the areas of contact between the upper spout and the lower spout, and the areas where the crank contacts its brackets.
- 4. Attach the spout extension to the upper spout. See Figure 3.

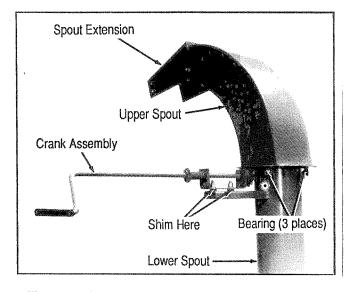


Figure 3. Spout Attachment & Crank Assembly

PTO BLOWER MODEL ASSEMBLY

- Install the pins provided and connect your three-point hitch to the Bale Chopper.
 - Do Not connect the PTO drive shaft at this time.
- 2. Raise the Bale Chopper to the height where the PTO drive shaft would be level, if installed.
- 3. Connect the drive shaft to the Bale Chopper.
- 4. Hold the drive shaft level, with the 540 yoke aligned beside the PTO shaft on the tractor.
- 5. Allow for 3/4" clearance between the outer shield and the bell housing at the Bale Chopper end of the drive shaft. See Figure 4.
- 6. If the drive shaft is too long, separate the halves and cut the full amount of excess length from both the male half and the female half.

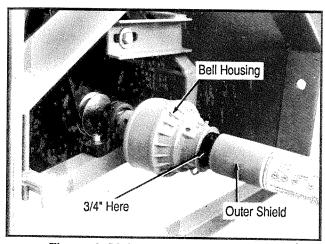


Figure 4. PTO Drive Shaft Installation

Note: if you cut only one end of the drive shaft, the other end will bottom out during operation. Cut the inner and outer shields as necessary to compensate for the shaft length adjustment.

- 7. Connect the 540 yoke to the PTO shaft on the tractor.
- 8. Remove the quick pin from its shipping location at the upper rear of the unit, and insert it into the hole in the lower rear of the unit to secure the bale carrier.

SELF-POWERED BLOWER MODEL ASSEMBLY

Battery

The battery is shipped without electrolyte. Therefore, the battery must be filled with sulfuric acid electrolyte before the Bale Chopper can be used.



Battery electrolyte can cause severe burns if handled improperly. Observe all poison/danger warnings on electrolyte cartons and on the battery. Wear splash-proof goggles and protective clothing when adding electrolyte to batteries. Avoid contact of electrolyte with skin, eyes, or clothing. KEEP BATTERIES AND ELECTROLYTE OUT OF REACH OF CHILDREN. If electrolyte is spilled or splashed on the body, IMMEDIATELY FLUSH WITH WATER; if electrolyte is spilled or splashed on the body, IMMEDIATELY FLUSH WITH WATER; if electrolyte comes into contact with the eyes, FLUSH WITH WATER FOR 15 MIN-UTES AND GET PROMPT MEDICAL ATTENTION: if electrolyte is taken internally, DRINK LARGE QUANTITIES OF WATER OR MILK, FOLLOWED WITH MILK OF MAGNESIA, BEATEN EGGS, OR VEGETABLE OIL.

To fill the battery with electrolyte:

- Place the battery on a level surface and remove the vent caps. If the battery has thin plastic shields in the cell openings, remove and discard them.
- 2. Fill the battery with battery grade sulfuric acid to just above the separators. DO NOT OVERFILL.
- 3. Reinstall the vent caps, then charge the battery as instructed below. AFTER charging, check the acid level, and fill to the bottom of the vent well openings. DO NOT OVERFILL.

Charging the battery:



- The battery can produce explosive gasses. Ventilate when charging or using in an enclosed space. DO NOT produce sparks from cable clamps, tools, or other sources; and DO NOT allow flames or smoking in the vicinity of the battery. Shield eyes when working near the battery. Shield eyes when working near the battery, and always keep the vent caps tight and level.
- 1. Make sure the vent caps included with the battery are installed.
- 2. Connect the battery to the charger according to the charger manufacturer's instructions and charge at 10 amperes for 50 minutes, or 2-9 amperes for 2 hours (depending on the capabilities of the charger).

Installing the battery:

- 1. Make sure the cable terminals and any hard hold-down wires are clean. If the battery is a replacement and the connectors and hold-down have been used before, clean them with a wire brush.
- 2. Place the battery in the tray with the terminals on the side of the battery nearest the wall of the Bale Chopper, and secure the battery in position with the hold-down provided.

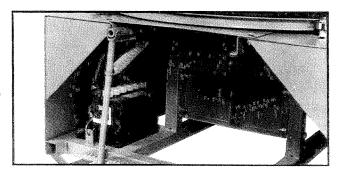


Figure 5. Battery Location

Connect the cables to the proper terminals, connecting the UNGROUNDED cable first. Do not overtighten. Apply a commercial battery anti-corrosion material or petroleum jelly to the terminals, to minimize corrosion.

Control Identification

BLOWER MODELS-PTO



 Blade rotation is started and stopped by means of the tractor PTO, and all control levers are on the tractor.

Tub Rotation Lever

Figure 6 shows the location and action of the lever which controls tub rotation.

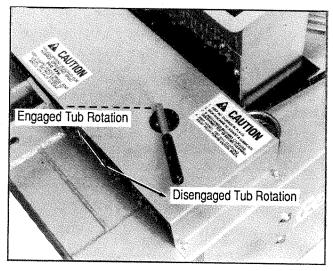


Figure 6. Tub Rotation Lever (PTO Model)

BLOWER MODEL-SELF-POWERED

Blade Rotation Lever

Figure 7 shows the location and action of the lever which causes the cutting blades to move. This lever has a locking tab on it, which locks into position in the teeth shown. The lever must be held to the right to release the locking tab, when it is being moved up or down.

(ON SELF-POWERED BLOWER MODELS WITH AN ELECTRIC CLUTCH, the blade rotation lever is replaced by a clutch engagement/disengagement switch, located on the motor control panel, just below the key. UP engages the clutch, DOWN disengages the clutch.)

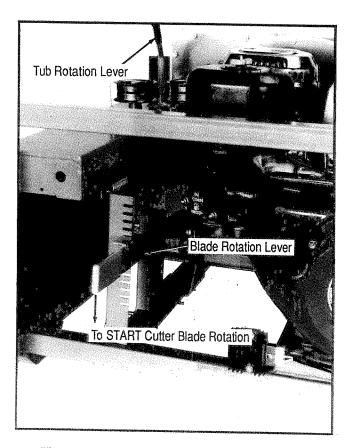


Figure 7. Rotary-Blade Engagement Lever (Self-Powered Model)

Tub Rotation Lever

Figure 8 shows the location of the lever which engages the tub assembly.

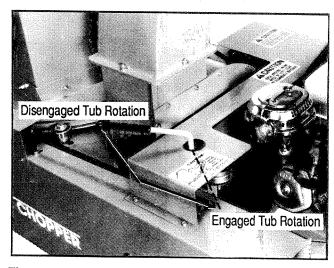
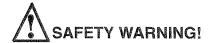


Figure 8. Tub Rotation Lever (Self-Powered Model)

Operation



- Wear approved eye and ear protection while operating the machine.
- Keep all guards in place during operation. Never operate the Bale Chopper with the tub removed.
- Before operating the machine, check to ensure that all belt guides and snubbers are in place, to prevent belts from slipping off the pulleys and systems from being accidentally engaged.
- Check bale tub for children, pets and foreign objects before operating.
- Never push material onto the cutters with your hands or feet.

Note: The Bale Chopper is gravity-fed, and it is natural for the rate of chopping to slow as the bale becomes lighter, until another bale is added.

Note: If bales are bound by wire instead of string or plastic, remove the wire before putting the bales into the tub.



 Periodically clean chopped material away from engines to lessen the possibility of fire. Always keep a fire extinguisher near the Bale Chopper during operation.

Before operating the Bale Chopper, check the tension on the belts.

Note: On initial operation of the Bale Chopper, the belts will become stretched and need readjustment after the first 10-15 bales. When readjusting belt tension, use a straightedge across the faces of pulleys to make sure they are properly aligned and the belts will run true.

BLOWER MODELS-PTO

A set of belts between the PTO shaft and the cutter shaft assembly drives the cutting blades whenever the PTO driveshaft is turning.



 Cutting blade rotation cannot be controlled from the Bale Chopper.

The shaft which drives the cutting blades also drives a gear box, through a second belt. A lever forces an idler pulley against a belt between the gear box and the tub, causing the bale to turn.

To begin operation:

- Make sure the tub rotation lever is disengaged.
- 2. Engage the PTO, to start blade rotation.
- 3. Set the first bale into the tub (if the bales are bound by wire instead of string or plastic, remove the wires before setting the bales into the tub).
- 4. Engage the tub rotation lever.

Note: Remove the strings from the bale, as soon as they have been cut.

Add another bale when there is about 1/3 bale left in the tub.

To stop operation:

- Move the lever to stop the tub.
- 2. Disengage the tractor PTO, to stop blade rotation.

BLOWER MODELS-SELF-POWERED

Belts run between the shaft assembly, which contains the cutting blades, and the engine; and between the shaft assembly and a gear box.

Moving a lever to force an idler pulley against the belts between the engine and the shaft assembly drives the shaft (and the cutting blades). This action also drives the gear box.

Moving a second lever forces an idler against a belt running between the gear box and the tub, to turn the bale. The bale will not turn unless the cutting blades are moving.

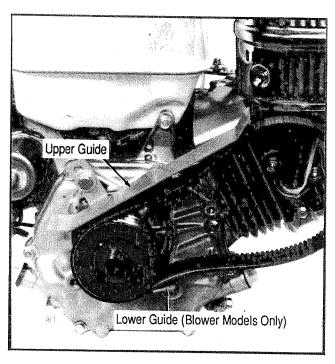


Figure 9 . Engine-mounted Belt Guides (engine removed from chassis for photo)



 Make sure that the belt guides (shown in Figure 9) are in place on the engine, and that the lower guide is positioned so that the belt bulges away from the pulley when it is slack. This helps prevent accidental engagement of the cutting blades.

To begin operation:

- 1. Make sure all tub and rotor engaging mechanisms are disengaged. See Figures 7 & 8.
- 2. Start the engine, following the manufacturer's instructions.
- 3. Engage the rotor to start blade rotation by manual lever.
- 4. Place the first bale into the tub (if the bales are bound by wire instead of string or plastic, remove the wires before setting the bales into the tub).

Note: Remove the strings from the bale as soon as they have been cut.

- 5. Use the tub rotation lever to start the bale turning.
- 6. Add another bale when there is about 1/3 bale left in the tub.

To stop operation:

- 1. Stop tub rotation.
- 2. Disengage the rotor mechanism.

Adjustments

BELT TENSION ADJUSTMENT

Note: Use only industrial V-belts. Do not use automotive belts.

Note: Do not overtighten belts. Excessive tension can cause premature bearing, gearbox, and clutch failure.

Note: Use a straightedge to check alignment across the faces of pulleys after adjusting belt tension, to ensure that the belts will run true.

BLOWER MODEL-PTO

The belts which turn the cutter shaft on the PTO Models are adjusted by means of two 1/2" threaded rods located beside the PTO shaft. See Figure 10.

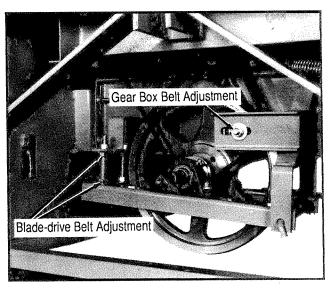


Figure 10.
Belt Tension Adjustment Points(PTO Models)

These rods adjust the position of the bearing bracket, to change belt tension.

The belt which transmits power to the gear box to rotate the tub is adjusted by means of a pulley mounted in a slotted bracket (see Figure 10.)

The belt which turns the tub is adjusted by moving an adjustable idler. See Figure 11.

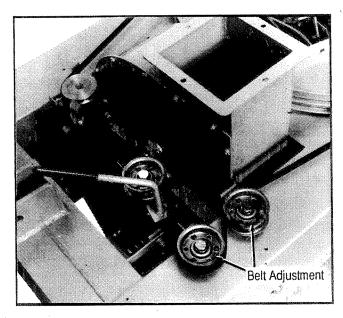


Figure 11.

Tub Belt Tension Adjustment (PTO Models)

(Shown with tub, spout and shield removed)

BLOWER MODEL-SELF-POWERED

The belts which turn the cutter shaft on the Self-Powered and PTO Models are adjusted by relocating the engine in its mounting slots. Loosen the bolts through both the belt tightening bracket and the reinforcement plate under the engine, then turn the adjustment bolt at the side of the engine mounting place to move the engine and adjust belt tension.

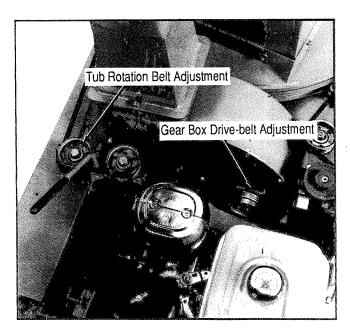


Figure 12. Belt Tension Adjusting Points (Self-Powered Models)

The belt which transmits power to the gear box is adjusted by means of an idler pulley mounted in a slotted bracket beside the gear box. See Figure 12.

The belt which turns the tub is adjusted by moving an adjustable idler. See Figure 12.

BLOWER MODELS

Depth of cut is adjusted by means of a lever located at the rear of the machine (the end opposite the power input). The lever moves one direction to raise the grate on the self-powered model, and the opposite direction to raise the grate on the PTO models (due to blade-rotation requirements).

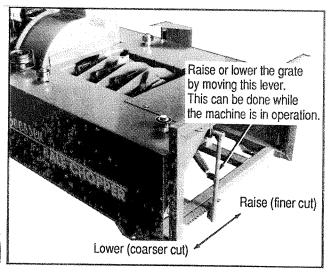


Figure 13. Depth-of-Cut Adjustment (Blower Models)
(Tub base removed for clarity. Self-Powered Model shown – PTO Model adjustment lever is on right and directions for raising and lowering are reversed)

Material Distribution

BLOWER MODELS

For blower model Bale Choppers, the spout adapter and 30' by 6" hose enable pinpoint placement and efficient distribution of mulching materials. The directional spout enables broadcasting of chopped material.

Service

BREAK-IN SERVICE

After the first 10-15 bales:

- 1. Check belts. Retension if needed.
- 2. Tighten set screws on bearings.
- 3. Check the tub carrier bearings and make necessary adjustments. See Figure 14.

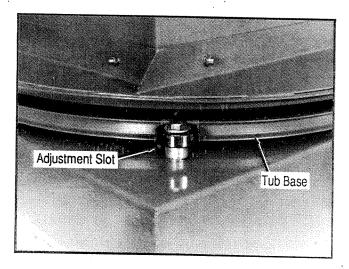


Figure 14. Tub Carrier Bearing Position

Periodically check belt tension and carrier bearing adjustment.

LUBRICATION

360° Directional Spout

As needed:

Lightly lubricate sprocket teeth, areas of contact between the upper spout and the lower spout, and areas where the crank contacts its mounting brackets.

Bearings

The bearings are sealed and require no lubrication.

Gear Box

Blower Models-PTO

Use 80-90 EP Gear Oil.

At 100 HRS:

1. Drain the gearbox while warm.

- 2. Thoroughly flush the gearbox housing with a light flushing oil.
- 3. Refill the gearbox with 6 oz. of 80-90 Gear Oil.

Every 6 months:

Repeat Steps #1 - #3 above to change lubricant.

Blower Model-Self-Powered

No oil change or addition required unless unit leaks. use Mobil SHC 634 wormgear lubricant, or equivalent.

Gasoline Engine:

Follow the manufacturer's instructions.

KNIFE REPLACEMENT



- Wear protective gloves whenever handling blades or working near them.
- Knives and their retaining hardware rotate at high speed. It is essential that they be mounted securely to prevent accidents from flying metal.
 Mount the knives only with Grade 5 1/4"-20 x 1/2" bolts and locknuts, treated with Loctite® (or equivalent). Tighten lock nuts to 18 in. lbs.

Note: If the serrations are worn down but the tip of the knife is still intact, the knife may be turned around and remounted.

The rotary shaft assembly has been factory balanced. Whenever knives are replaced, or additional knives are attached to the assembly, this balance must be maintained. It is best to replace knives with serrated knives, since these pull the material down into the machine. New bolts and nuts are necessary when turning or replacing knives, and Loctite® must be used on each bolt.

To maintain balance:

- A. Mount replacement knives only in the places from which the worn knives were removed.
- B. Mount additional knives only as opposing pairs on each plate, and in the patterns shown in Figure 22.

Note: Do not put any knives on the rotor plate furthest from the impeller on Blower models.

C. Do not remove nuts and bolts installed as weights, unless you are mounting knives in those holes.

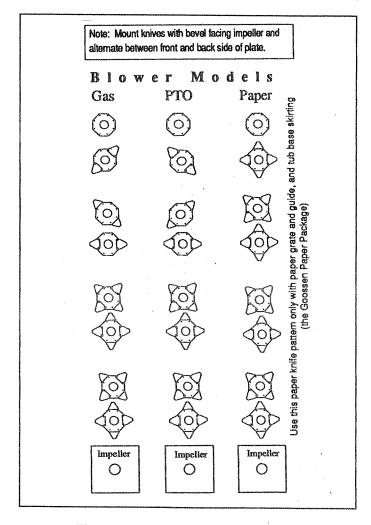


Figure 15. Knife Installation Pattern

To replace knives:

- 1. Remove the belt from around the tub.
- 2. Loosen the bolts mounting the rear tub carrier bearings. See Figure 14.
- 3. Slide the loosened bearings toward the rear and remove the tub from the Bale Chopper.
- Unbolt and remove the grate guide (Blower models).
- 5. With the grate adjustment lever (Figures 18 and 19), rotate the grate upward and clear of the knives.
- 6. Remove and replace the knives as necessary, using only Grade 5 1/4"-20 x 1/2" bolts and lock nuts secured with Loctite® (or equivalent), and tighten to 18 in. lbs.
- 7. Return the grate to its original position.
- 8. Reinstall the tub.

Troubleshooting

PROBLEM:

Gear box vibrates, is very noisy

ENGINE:	
PROBLEM:	WHAT TO CHECK:
Engine shuts off during operation	 Engine may be low on fuel.
	 Engine may be low on oil.
	(The Honda Engine is equipped with an
	"Oil Alert" automatic shut-off.)
	 Air breather may be clogged.
BELTS:	
PROBLEM:	WHAT TO CHECK:
Belts slip	 Tension adjustment.
	 Load may be excessive.
4	 Knives may be too dull.
	 Grate setting may be too low (cutting too deeply).
	 Foreign material may be lodged in the chopper
	(on knives or blower paddles).
	Bearings may have seized.
PROBLEM:	WHAT TO CHECK:
Belts wear rapidly;	 Pulleys may not be properly aligned. Check with
Belts jump, catch, or twist CUTTING AND DISCHARGE:	straightedge across faces of pulleys.
PROBLEM:	WHAT TO CHECK:
Hose plugs	Material being chopped may have too much
riose piags	moisture in it.
	 RPM may not be high enough.
	(540 RPM max. is recommended for PTO models.
	Adjust throttle to increase RPM to required levels.
	DO NOT attempt to adjust the engine governor on
	gas models — it should not exceed the factory
	setting of 3200 RPM, or 3600 RPM for 18 hp.)
	 Foreign material may be lodged in the hose.
	 Grate setting may be too low.
	Grate cetting may be too low.
PROBLEM:	WHAT TO CHECK:
Slow cutting time	 Grate setting may be too high.
•	 Material being cut may have too much moisture in it.
	 Knives may be dull.
	 RPM may be too low (but do not exceed 540 max.
	for PTO models, 3200 or 3600 max. for gas models
	-see above.)
GEAR BOX:	
PROBLEM:	WHAT TO CHECK:
Oil leaks	 Housing bolts may be loose.
	 Oil seals may need replacement
PDODI EM.	MILLAT TO OLUMBIA
PROBLEM:	WHAT TO CHECK:
Gear box overheats	Oil level may be too low.
	Dirt or grease may have accumulated around
	the gear box.

WHAT TO CHECK:

- Oil level may be low.
- Components may be worn or damaged. Load may be excessive.

NA5000PSME MAINFRAME COMPONENTS

NA5000PSME MAINFRAME COMPONENTS

No. Req'd	cv	- 27								2					32		-	7		ay/ 1		2 7	1 (4
Description	Battery Battery Hold Down Strap Rear Lift Handle Battery Cable Terminal End	Battery Cable Set Decal (Goossen Mainframe)	Gear Box Top Sheave (AK32 x 5/8") Belt Guide	Gear Box Sheave (AK34 x 5/8")	Engaging Channel Swivel	Electric Start Forma Engline (11 hp.) Banded Drive Belt (3/3VX315)	Taper Lock Bushing (1610 x 1" 1K) Drive Sheave (3/3V 5.0 -1610)	Upper Drive Belt Guide	Impeller End SpacerSheave. 3.0 x 1"	Pillow Block Bearing	Lower Drive Belt Guide	1610 x 1" Taper Lock Hub	Blower Trough Front	(Gas #2388 & PTO#1244 ON)	Cutting Knife	Blower Trough AssemblyBear Rearing Guard	Rear Frame Plate	Rear Frame Plate Bracket2	Safety Lid	Decal (Danger Keep Hands and Feet Away)	Lid Eyebolt	Decal (Goossen Tub)	Decal (Caution Cut & Refflove Surings) Bale Tub (2-Wire)
Part No.	GF-235 GF-236 GF-246 GF-232	GF-237 PF-243-00	PF-206 GF-215 GE 214	GF-506	GF-212-00	GB-223-00	GB-204-00 GB-203-00	GB-105-00	PB-502-00 PB-113-00	PB-105-00	GB-106-00	GB-204-00 GB-204-00	GB-502-00 PR-601-00	3	PB-109-00	GB500-00 PE-235-00	GF-255-00	GF-256-00	PT-312-01	BLP-106-00	PT-313-00	PT-321-00	PT-320-00 PT-300-00
Ref.	39 40 41 42	1 64	46	48	50 1	52	53	55	57	59	90	- 65 - 67	63	<u>-</u>	65	96	88	69	2 i	7.1	73	74	76
No. Description Req'd	Front Lift Handle	Spring Channel Guide	Engaging Channel Spacer2 Engaging Channel Spacer	Wide Idler Pulley	1 1/2" Cap Plug1	Maintrame	Shift Assembly Stop1	Plastic Cover (Shift Assy. Handle)1	Shift Assembly1		Belt Guide	Tub Belt Shield1 Belt Guide1	Front Belt Shield1	Decal (Danger Keep I	Decal (Clean With Hose)1	7 Finger Grate Guide1	Tub Base Assembly (2-Wire)1	Tub Drive Belt, Blower Models1	7 Finger Grate1		Spring	Grate Adjustment Bracket1	Tub Base Bearing Spacer
<u> </u>	GF-225 GF-226 GF-205	GF-206 GF-230 GF-230	GF-203 GF-213	GF-251 GF-231	GF-204 PF-215	GF-500 GF-524-00	PF-242	PF-225	GF-218	PF-213	PF-212	GF-217 PF-216	GF-502-00	BLP-106-00	GF-247	PF-337	PT-304	PT-511	GF-628-00	PF-226	7F-217 GF-242	PF-231	PF-219 PF-220
Ref. Part No. No.																							

NA6000 MAINFRAME COMPONENTS

NA6000 MAINFRAME COMPONENTS

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a	Description	Battery	Battery Hold Down Strap	Rear Lift Handle	Battery Cable Terminal End2	Battery Cable Set	Decal (Goossen Mainframe)	Gear Box Top Sheave (AK32 x 5/8")	Belt Guide	Gear Box (15:1 Ratio)	Gear Box Sheave (AK34 x 5/8")	Gear Box Belt (4L370)	Engaging Channel Swivel	Electric Start Honda Engine (13 np.)	Tanar I ook Bushing (1610 x 1" 1K)	Drive Chapte (3/37/ 4 5-1610)	Upper Drive Belt Guide	Impeller End Spacer	Sheave, 3.0 x 1"	Pillow Block Bearing2	Lower Drive Belt Guide	Drive Sheave (3/3V 3.65)	1610 x 1" laper Lock Hub	Blower Irough Front	Impeller Even Spaced Rolor	(das #2500 a 1 (# 1244 (1/)	mbly	Rear Bearing Guard	Rear Frame Plate	Rear Frame Plate Bracket2	Safety Lid	Decal (Danger Keep Hands and Feet Away)		Lid Eyeboli	Decal (Goossell Tub)	Bale Tub (2-Wire)
Part	No.	GF-235	GF-236	GF-246	GF-232	GF-237	PF-243-00	PF-206	GF-215	GF-214	GF-506	GF-520-00	GF-212-00	CSP-100-00	GB-223-00	GD-204-00	GB-303-00	PR-502-00	PB-113-00	PB-105-00	GB-106-00	GB-504-00	GB-204-00	GB-502-00	PB-601-00	PR-109-00	GB500-00	PF-235-00	GF-255-00	GF-256-00	PT-312-01	BLP-106-00	PT-316-00	PI-313-00	PI-321-00	PT-300-00
Ref.	No.	33	40	41	42	43	44	45	46	47	48	49	20	<u>ب</u>	52	0 5	20 rc	7.7	58	23	09	61	62	63	64	n n	99	67	68	69	70	7	72	. i	74	76
No.	Description Req'd	Front Lift Handle1	Cover for Engaging Handle1		Engaging Channel Clip1	Spring	Engaging Channel Guide1	Engaging Channel2	Engaging Channel Spacer2	Wide Idler Pulley1	Reinforcement Plate2	Engaging Handle Stop Assembly1	1 1/2" Cap Plug1		Decal (BCG-3 Serial	Shift Assembly Stop	Spring Spring (Shift Assy, Handle)	Chief Associated (Stifft Assy, Flatials)	Sillit Assembly		Belt Guide2	Tub Belt Shield1		Front Belt Shield		Decal (Danger Keep I	Decal (Clear Will Flose)	Rear Botor Cover	Tub Base Assembly (2-Wire)1	Tub Drive Belt, Blower Models1	7 Finger Grate	Roll Pin1	Spring	Grate Lever	all the same of	Tub Base Bearing Spacer
Part	No.	GF-225	GF-226	GF-205	GF-229	GF-206	GF-230	GF-203	GF-213	GF-251	GF-231	GF-204	PF-215	GF-500	GF-524-00	PF-242	PF-211	PF-225	פוליקט	PF-213	PF-212	GF-217	PF-216	GF-502-00	GF-245-00	BLP-106-00	GF-24/	PE-534	PT-301	PT-511	GF-628-00	PF-226	PF-211	GF-242	PF-231	PF-219
Ref.	Š.									တ	0		Δ.	3	4		19	. ,	<u></u> Σ	20 - 20	7	O.I	23	-	25	· ^ ·	/ C	0 0	30	, ,	32	33	34	35	36	32/

NA8000ESME MAINFRAME COMPONENTS

Ref.	Part No.	No. Description Reg	No.	Ref.	Part No.	Description
-5	GE-225		_	30	GE-235	the state of the s
N .	GF-226	Cover for Engaging Handle1		40	GF-236	Battery Hold Down Strap
ယ	GF-205	Engaging Handle1		4	GF-246	Rear Lift Handle1
4	GF-229	Engaging Channel Clip1		42	GF-232	Battery Cable Terminal End4
(J)	GF-206	Spring1		43	GF-237	Battery Cable Set
	GF-230	Engaging Channel Guide1		44	PF-243-00	Decal (Goossen Mainframe)
	GF-203	Engaging Channel1		45	PF-206	Gear Box Top Sheave (AK32 x 5/8")
	GF-213	Engaging Channel Spacer2	N	46		Belt Guide
	GF-251	Wide Idler Pulley1		47		Gear Box (15:1 Ratio)1
	GF-231		NO	48	8	Gear Box Sheave (AK34 x 5/8")
	GF-204			49		Gear Box Belt (4L370)
	PF-215	1 1/2" Cap Plug1		50		Engaging Channel Swivel
	GF-500	Mainframe1		5		Electric Start Honda Engine (18 hp.)
4	GF-524-00	Decal (BCG-4 Serial Number)1		52	GB-223-00	Banded Drive Belt (3/3VX315)
ਨਾ	PF-242	Shift Assembly Stop1		წვ	GB-204-00	Taper Lock Bushing (1610 x 1" 1K)1
	면구.2건	Spring1		54	GB-503-00	Drive Sheave (3/3V 4.5-1610)
17	PF-225	Plastic Cover (Shift Assy. Handle)1		55	GB-105-00	Upper Drive Belt Guide
∞	GF-218	Shift Assembly1	souds	57	PB-502-00	Impeller End Spacer1
9		Flat Washer (1/2")4	42	58	PB-113-00	Sheave, 3.0 x 1"1
20	PF-213	Idler Spacer2		59	PB-105-00	Pillow Block Bearing2
ᄁ	PF-212	Belt Guide2		60	GB-106-00	Lower Drive Belt Guide
	GF-217	Tub Belt Shield1		61	GB-104-00	Drive Sheave (3/3V 3.15)1
	PF-216	Belt Guide1		62	PB-110-00	1210 x 1" Taper Lock Hub1
	GF-502-00	Front Belt Shield1		63	GB-502-00	Blower Trough Front
	GF-245-00	Decal (Area Around Engine)1		64	PB-601-00	Even Space
	PF-238-00	Decal (Danger Keep Hands and Feet Away)1				(Gas #2388 & PTO#1244 ON)1
27	GF-247	Decal (Clean With Hose)1		<u>0</u>	PB-109-00	Cutting Knife32
	PF-337	7 Finger Grate Guide1		66	GB500-00	Blower Trough Assembly1
	PF-534	Rear Rotor Cover1		67	PF-235-00	Rear Bearing Guard1
30	PT-301	Tub Base Assembly (2-Wire)1		68 8	GF-255-00	Rear Frame Plate1
	PT-511	Tub Drive Belt, Blower Models1	amath.	69	GF-256-00	Rear Frame Plate Bracket2
_	GF-628-00	7 Finger Grate1	met	70	PT-312-01	Safety Lid1
33	PF-226	Roll Pin1		71	BLP-106-00	Decal (Danger Keep Hands and Feet Away)1
	PF-211	Spring1	***************************************	72	PT-316-00	Lid Spring
35	GF-242	Grate Lever1		73	PT-313-00	Lid Eyebolt1
36		Grate Adjustment Bracket1		74	PT-321-00	Decal (Goossen Tub)2
37	PF-231		-4	1	ローのころ	
	PF-231 PF-219	Tub Base Bearing4		ζ	L 1-070-00	Decal (Caution Cut & Remove Strings)1

MAINFRAME COMPONENTS NA8500ESWE

NA8500ESME MAINFRAME COMPONENTS

ン	Bale Tub (2-Wire)	PT-300-00	76	4	Tub Base Bearing Spacer	PF-220	38
Decal (Caution Cut & Remove Strings)1	Decal (Caution C	PT-320-00	75	4.	Tub Base Bearing	PF-219	37
Decal (Goossen Tub)2	Decal (Goossen	PT-321-00	74	<u>:</u>	Grate Adjustment Bracket	PF-231	36
Eyebolt1	Lid Eyebolt	PT-313-00	73		Grate Lever	GF-242	35
Spring1	Lid Spring	PT-316-00	72	<u>.</u>	Spring	PF-211	34
Decal (Danger Keep Hands and Feet Away)1	Decal (Danger Ke	BLP-106-00	71		Roll Pin1	PF-226	33
Safety Lid1	Safety Lid	PT-312-01	70	<u>:</u>	3 Finger Grate1	GF-528-00	32
Rear Frame Plate Bracket	Rear Frame Plate	GF-256-00	69	<u></u>	Tub Drive Belt, Blower Models	PT-511	<u>α</u>
Rear Frame Plate1	Rear Frame Plate	GF-255-00	68	<u>:</u>	Tub Base Assembly (2-Wire)	PT-301	30
Rear Bearing Guard1	Rear Bearing Gu	PF-235-00	67	<u>.</u>	Rear Rotor Cover	PF-534	29
Blower Trough Assembly	Blower Trough A:	GB500-00	66		7 Finger Grate Guide	PF-337	28
Cutting Knife4	Cutting Knife	PB-109-00	65	<u>:</u>	Decal (Clean With Hose)1	GF-247	27
(Gas #2388 & PTO#1244 ON)1	(Gas #2388 & P1			<u>)</u>	Decal (Danger Keep Hands and Feet Away)1	PF-238-00	26
Gas Rotor	Impeller/Course Gas Rotor	GB-701-00	64	<u>:</u>	Decal (Area Around Engine)	GF-245-00	25
Blower Trough Front	Blower Trough F	GB-502-00	63	:	Front Belt Shield1	GF-502-00	24
1210 x 1" Taper Lock Hub1	1210 x 1" Taper I	PB-110-00	62		Belt Guide1	PF-216	23
/3V 3.15)	Drive Sheave (3/	GB-104-00	61		Tub Belt Shield	GF-217	22
Lower Drive Belt Guide1	Lower Drive Belt	GB-106-00	60	2	Belt Guide	PF-212	21
Pillow Block Bearing2	Pillow Block Bea	PB-105-00	59	2	Idler Spacer2	PF-213	20
Sheave, 3.0 x 1"1	Sheave, 3.0 x 1"	PB-113-00	58		Flat Washer (1/2")		19
Impeller End Spacer1	Impeller End Spa	PB-502-00	57		Shift Assembly	GF-218	8
Upper Drive Belt Guide1	Upper Drive Belt	GB-105-00	55	: : : :	~	PF-225	17
Drive Sheave (3/3V 3.65-1610)1	Drive Sheave (3/	GB-504-00	54	:	Spring	PF-211	16
Taper Lock Bushing (1610 x 1" 1K)1	Taper Lock Bush	GB-204-00	53	:	Shift Assembly Stop	PF-242	다
Banded Drive Belt (3/3VX300)1	Banded Drive Be	SVA-191-00	52	<u>:</u>	Decal (NA8500ESME Serial Number)	GF-524-00	4
Electric Start Honda Engine (18 hp.)1	Electric Start Hor	CSP-135-00	<u>ত্</u>		Mainframe	GF-500	芯
Engaging Channel Swivel1	Engaging Chann	GF-212-00	50	<u>.</u>	1 1/2" Cap Plug1	PF-215	12
Gear Box Belt (4L370)1	Gear Box Belt (4	GF-520-00	49		Engaging Handle Stop Assembly	GF-204	
Gear Box Sheave (AK34 x 5/8")1	Gear Box Sheav	GF-306-00	48		Reinforcement Plate	GF-231	70
Gear Box (15:1 Ratio)1	Gear Box (15:1 I	GF-214	47	:	Wide Idler Pulley	GF-251	9
	Belt Guide	GF-215	46	2	Engaging Channel Spacer2	GF-213	∞
Gear Box Top Sheave (AK32 x 5/8")1	Gear Box Top Sh	PF-206	45		Engaging Channel	GF-203	7
Decal (Goossen Mainframe)2	Decal (Goossen	PF-243-00	44		Engaging Channel Guide	GF-230	6
Battery Cable Set1	Battery Cable Se	GF-237	43	:	Spring	GF-206	Œ
Battery Cable Terminal End4	Battery Cable Te	GF-232	42		Engaging Channel Clip	GF-229	4
Rear Lift Handle1	Rear Lift Handle	GF-246	41	:	Engaging Handle	GF-205	ω
Battery Hold Down Strap1	Battery Hold Dov	GF-236	40		Cover for Engaging Handle	GF-226	N
	Battery	GF-235	39		Front Lift Handle	GF-225	
Req'd	Description	No.	No.	Req'd	Description	No.	No.

NA1000PTOB MAINFRAME COMPONENTS

NA1000PTOB MAINFRAME COMPONENTS

Ref. Part Description No. Ref. Part Description No. No. Ref. Part Description No. No. Ref. Part Description No. No. Ref. Part Req'd No. No. Ref. Part							And the second s		
## Part Description	:	PTO Shaft (Size 2)	PB-224-00	62		Shift Assembly Stop	PF-242-00	32	
Part		Idler Shaft	PB-112-00	63		Spring	PF-211-00	<u> </u>	
Part Description No. No. Ref. Part Description No. No. Ref. Part Description No. No. Ref. Part Description No. No. No. No. Description No. No. No. No. No. No. No. No.	:	Drive Sheave (4-3V14.0)	PB-202-00	62		Shift Assembly	PF-210-00	30	
Part Description No. Ref. Part Part Description Req'd No.		2517 X 1" Taper Lock Hub	PB-204-00	9		Shift Handle Assembly Cover	PF-225-00	29	
Part Description No. N		Banded Drive Belt (4/3VX500)	PB-323-00	60		Belt Guide	PF-507-00	28	
Part		Sheave (3.0 X 1")	PB-113-00	59		Belt Guide	PF-207-00	27	
f. Part Description No. No. Ref. Part No. No. No. Description Regrd No. No. No. Description Regrd No. No. No. Description No. No. No. Description Regrd No. No. No. Description No. No. No. Description Regrd No. No. No. Description No. No. No. Description Regrd No. No. No. Description No. No. No. Description No. No. No. Description No. No. No. No. Description No. No. No. No. Description No.	:	Gear Box Drive Belt (4L 420)	PF-222-00	58		Gear Box Side Sheave (AK46 X 5/8)	PF-305-00	26	
Part	:	Tightener Frame	PB-203-00	57		Gear Box Top Sheave (AK32 X 5/8)	PF-206-00	25	
## Part	2	Adjustment Bolt (6")	PB-220-00	56		Gear Box (2:1 Ratio)	PF-204-00	24	
Part Description No. Ref. Part Part Part Part PF-500-00 Main Frame 1 12" 133 50-WUSS 12" USS Flat Washer PF-215-00 Cap Pilly 1 1/2" 2 2 35 PF-220-00 Tub Base Bearing PF-220-00 PF-215-00 Decal (BC-3 Serial Number) 1 33 PF-220-00 PF-210-00 Decal (BC-3 Serial Number) 1 2 36 PF-220-00 Tub Base Bearing Spacer 2 2 2 2 2 2 2 2 2		Rear Bearing Guard	PF-235-00	55		Grate Adjustment Bracket	PF-231-00	23	
Part Description No. Ref. Part Description Part Description Part Description Part Par		Blower Trough Assembly	PB-400-00	54	· · · · · · · · · · · · · · · · · · ·	Grate Frame Bracket	PF-232-00	22	
Part Description	32	Cutting Knife	PB-109-00	53	-	Roll Pin	PF-226-00	7	
## Part Description No. No.	:	Impeller	PB-601-00	52		Spring	PF-211-00	20	
Part Description No. Ref. Part Part PF-500-00 Main Frame		Blower Trough Front	PB-536-00	5		Grate Lever	PF-230-00	19	
Part Description No. Ref. Part Part No. Description Req'd No. No. Description PF-500-00 Main Frame 1 33 50-MUSS 1/2" USS Flat Washer PF-215-00 Cap Plug, 1 1/2" 34 PF-216-00 Bell Guide Bell Guide PF-216-00 Bell Guide Bell Guide PF-216-00 Base Bearing PF-216-00 Tub Base Bearing PF-217-00 PR-218-00 Bale Carrier PF-218-00 Bale Carrier PF-218-00 Bale Tub (2-Wire) PR-218-00 Bale Tub (2-Wire) PR-218-00 Bale Tub (2-Wire) PR-218-00 Decal (Caution Cut & Remove Strings) PF-218-00 Decal (Goossen Tub) PR-218-00 Decal (Goossen Tub) PR-		Retainer Clip	PB-115-00	50		Rear Rotor Cover	PF-534-00	8	
Part Description No. Ref. Part Description No. Description Red'd No. Description PF-214-00 3-Point Pin w/Hardware 1 35-WUSS 1/2" USS Flat Washer PF-214-00 3-Point Pin w/Hardware 2 34-PF-216-00 Belt Guide PF-215-00 Decal (BC-3 Serial Number) 35-PF-219-00 Tub Base Bearing PF-219-00 PB-117-00 Narrow Idler Pulley 4 PF-219-00 Tub Base Bearing Spacer PF-213-00 Idler Pulley Spacer 4 PF-200-00 Bale Carrier PF-219-00 PF-213-00 Idler Pulley Spacer 38-PF-200-00 Bale Carrier PF-201-00 PF-213-00 Belt Guide 4 PF-201-00 Bale Carrier PF-201-00 PF-213-00 Decal (Goossen Mainframe) 4 PF-312-00 Decal (Caution Cut & Remove Strings) PF-312-00 PF-230-00 Tub Base Assembly (2-String) 4 PF-313-00 Decal (Caution Cut & Remove Strings) PF-238-00 Decal (Caution Keep All Guards) 44 PF-313-00 Decal (Caution Stand Feet Away) PF-238-00 <t< td=""><th></th><td>Tightener Pin</td><td>PB-114-00</td><td>49</td><td></td><td>Adjustable Grate</td><td>PF-503-00</td><td>17</td><td></td></t<>		Tightener Pin	PB-114-00	49		Adjustable Grate	PF-503-00	17	
Part Description No. Ref. Part Description No. Description Red'd No. No. PF-500-00 Main Frame 1 33 50-WUSS 1/2" USS Flat Washer PF-214-00 3-Point Pin w/Hardware 2 34 PF-216-00 Belt Guide PF-215-00 Cap Plug, 1 1/2" 34 PF-219-00 Tub Base Bearing PF-215-00 Decal (BC-3 Serial Number) 35 PF-219-00 Tub Base Bearing PF-213-00 Idler Pulley 4 PF-201-00 Bale Carrier PF-212-00 Belt Guide 97-300-00 Bale Tub (2-Wire) PF-213-00 Belt Guide 97-300-00 Bale Tub (2-Wire) PF-212-00 Belt Guide 97-300-00 Bale Tub (2-Wire) PF-213-00 Belt Guide 97-300-00 Bale Tub (2-Wire) PF-213-00 Decal (Goossen Mainframe) 40 PT-320-00 Decal (Caution Cut & Remove Strings) PF-213-00 Decal (Goossen Tub) 40 PT-313-00 Lid Eyebolt PR-213-00 Decal (Caution Cepe Alway) PT-313-00 Lid Eyebolt	:	Impeller End Spacer	PB-502-00	48		7 Finger Grate Guide	PF-337-00	<u>1</u>	
Part Description No. Ref. Part Part No. Description Req'd No. No. Description PF-500-00 Nain Frame 1 33 50-WUSS 1/2" USS Flat Washer PF-214-00 3-Point Pin will-ardware 2 2 PF-216-00 Belt Guide 1 PF-215-00 Cap Plug, 1 1/2" 34 PF-219-00 Tub Base Bearing 1 PF-213-00 Decal (BC-3 Serial Number) 1 37 PF-219-00 Tub Base Bearing Spacer PF-213-00 Idler Pulley 2 36 PF-219-00 Tub Base Bearing Spacer 37 PF-219-00 Tub Base Bearing Spacer PF-213-00 Idler Pulley Spacer 2 38 PT-300-00 Bale Carrier 8 PT-312-01 Base Bearing Spacer 9 PF-213-00 Idler Pulley Spacer 2 39 PT-312-01 Base Carrier 9 PT-312-01 Base Tub (2-Wire) 9 PF-213-00 Decal (Goossen Mainframe) 40 PT-320-00 Decal (Caution Cut & Remove Strings) 9 PF-203-00 Tub Base Assembly (2-String) 41 PT-313-00 Lid Eyebolt 1 PF-203-00 Decal (Caution Keep All Guards) 42 PT-316-00 Decal (Caution Ceep Hands and Feet Away) PF-203-00 Decal (Clean Wit	4	Pillow Block Bearing	PB-105-00	47		Decal (Caution 540 RPM)	PF-239-00	5	
Part Description No. Ref. Part Part No. Description Req'd No. No. Description PF-500-00 Nain Frame 1 33 50-WUSS 1/2" USS Flat Washer PF-214-00 3-Point Pin wi Hardware 2 2 2 2 2 2 2 34 PF-216-00 Belt Guide 34 PF-219-00 Tub Base Bearing 35 PF-220-00 Tub Base Bearing Spacer 36 PF-220-00 Tub Base Bearing Spacer 37 PF-201-00 Bale Carrier 37 PF-201-00 Bale Carrier 38 PT-300-00 Bale Tub (2-Wire) 39 PT-312-01 Bale Tub (2-Wire) 39 PT-312-01 Bale Tub (2-Wire) 39 PT-312-01 Decal (Goossen Tub) 39 PT-313-00 Decal (Goossen Tub) 39 PT-316-00 Decal (Goossen Tub) 39 PT-3		Rotor Sheave (4-3V 3.15)	PB-104-00	46		Decal (Clean With Hose)	GF-247-00	14	
Part Description No. Ref. Part Part No. Description Req'd No. No. Description PF-200-00 Main Frame 1 33 50-WUSS 1/2" USS Flat Washer PF-214-00 3-Point Pin w/Hardware 2 34 PF-216-00 Belt Guide PF-215-00 Cap Plug, 1 1/2" 34 PF-219-00 Tub Base Bearing PF-236-00 Decal (BC-3 Serial Number) 1 37 PF-201-00 Belt Guide PF-212-00 Belt Guide 4 PF-201-00 Bale Carrier Belt Guide PF-212-00 Belt Guide 33 PT-300-00 Bale Tub (2-Wire) Belt Guide PF-243-00 Decal (Goossen Mainframe) 39 PT-312-01 Safety Lid PT-301-00 PF-201-00 Tub Base Assembly (2-String) 41 PT-331-00 Decal (Goossen Tub) PD-201-00 PF-202-00 Tub Base Assembly (2-String) 42 PT-316-00 Lid Spring PF-202-00 Front Belt Shield 41 PT-316-00 Lid Spring	<u>:</u>	Taper Lock Bushing (1210 X 1.000" 1K).	PB-110-00	45		Decal (Caution Keep All Guards)	PF-238-00	ದ	
Part Description No. Ref. Part Part No. Description No. No. No. PF-500-00 Nain Frame 1 33 50-WUSS 1/2" USS Flat Washer PF-214-00 3-Point Pin w/Hardware 2 34 PF-216-00 Belt Guide PF-238-00 Decal (BC-3 Serial Number) 1 37 PF-219-00 Tub Base Bearing PB-117-00 Narrow Idler Pulley 4 PF-220-00 Tub Base Bearing Spacer PF-213-00 Belt Guide 2 38 PT-300-00 Bale Tub (2-Wire) PF-243-00 PF-243-00 Tub Belt Shield 38 PT-301-00 Safety Lid PF-243-00 Tub Drive Belt Blower Models (A128) 40 PT-3313-00 Decal (Goossen Tub) PT-301-00 Tub Base Assembly (2-String) 42 PT-313-00 Lid Eyebolt		Decal (Danger Keep Hands and Feet Away)	BLP-106-00	44	and.	Front Belt Shield	PF-202-00	芯	
Part Description No. Ref. Part No. Description Red'd No. No. Description No. Main Frame 1 33 50-WUSS 1/2" USS Flat Washer 50-WUSS Flat Washer 1/2" USS Flat Washer 50-WUSS Flat Washer 50-W		Lid Spring	PT-316-00	43		Tub Base Assembly (2-String)	PT-301-00	è.	
Part Description No. Ref. Part No. Description Ref. Part No. No. No. No. No.			PT-313-00	42		Tub Drive Belt Blower Models (A128)	PT-511-00	7	
Part No. No. Ref. Part Description No. Description Req'd No. No. No. PF-500-00 Main Frame 1 33 50-WUSS 1/2" USS Flat Washer PF-215-00 Cap Plug, 1 1/2" 34 PF-216-00 Belt Guide Belt Guide PF-236-00 Decal (BC-3 Serial Number) 1 35 PF-219-00 Tub Base Bearing Spacer PF-213-00 Idler Pulley 4 PF-201-00 Bale Carrier Bale Carrier PF-212-00 Belt Guide 1 38 PT-300-00 Bale Tub (2-Wire) PF-209-00 Tub Belt Shield 1 40 PT-320-00 Decal (Caution Cut & Remove Strings)		Decal (Goossen Tub)	PT-321-00	4	2	Decal (Goossen Mainframe)	PF-243-00	ဖ	
Part No. Ref. Part No. Description Red'd No. No. No. No. No. PF-500-00 Main Frame 1 PF-214-00 3-Point Pin w/Hardware 2 PF-215-00 Cap Plug, 1 1/2" 34 PF-219-00 Tub Base Bearing PF-236-00 Decal (BC-3 Serial Number) 1 PF-213-00 Idler Pulley Spacer 38 PF-213-00 Bale Carrier Belt Guide 39 PT-312-01 Safety Lid		Decal (Caution Cut & Remove Strings)	PT-320-00	40		Tub Belt Shield	PF-209-00	∞	
Part No. Ref. Part No. Description Req'd PF-500-00 Main Frame 1 PF-214-00 3-Point Pin w/Hardware 2 PF-215-00 Cap Plug, 1 1/2" 33 PF-236-00 Decal (BC-3 Serial Number) 1 PF-213-00 Idler Pulley Spacer 34 PF-201-00 Bale Carrier 35 PF-201-00 Bale Tub (2-Wire)		Safety Lid	PT-312-01	39	made	Belt Guide	PF-212-00	7	
Part No. Ref. Part No. Ref. Part PF-500-00 Main Frame		Bale Tub (2-Wire)	PT-300-00	38	 N	Idler Pulley Spacer	PF-213-00	တ	
Part No. Ref. Part No. Description Req'd PF-500-00 Main Frame		Bale Carrier	PF-201-00	37	4	Narrow Idler Pulley	PB-117-00	ĊΊ	
Part No. Ref. Part No. Reg'd No. No. Description PF-500-00 Main Frame	4	Tub Base Bearing Spacer	PF-220-00	36	med	Decal (BC-3 Serial Number)	PF-236-00	4	
Part No. Ref. Part No. Reg'd No. No. PF-500-00 Main Frame 1 PF-214-00 3-Point Pin w/Hardware 34 Per 216-00 Ref. Part No. No. Pescription No. No. Description Ref. Part No. No. Pescription No. No. Description Ref. Part No. No. Description Description Ref. Part No. No. Description Ref. Part Per 214-00 Ref. Part Description Ref. Part Ref. Part No. No. Description Ref. Part Ref.	4	Tub Base Bearing	PF-219-00	35	2	Cap Plug, 1 1/2"	PF-215-00	ω	
Part No. Ref. Part No. Description Req'd No. No. No. Description	2	Belt Guide	PF-216-00	34	N	3-Point Pin w/Hardware	PF-214-00	N .	
Part No. Ref. Part No. Description Req'd No. No. Description	4.	1/2" USS Flat Washer	50-WUSS	္ယ		Main Frame	PF-500-00	<u>-</u>	
Part No. Ref. Part	Req'd	Description	<u>N</u>	<u>Z</u>	Req'd	Description	No.	<u>N</u> 0.	
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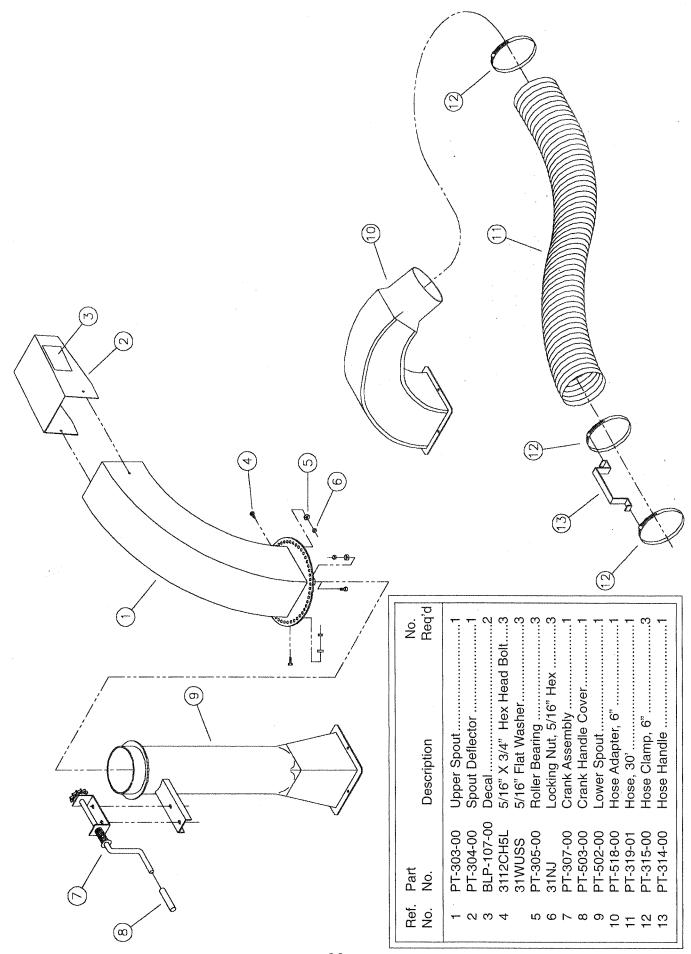
MAINFRAME COMPONENTS NA1500PTOB

NA1500PTOB MAINFRAME COMPONENTS

43 P1-316-00 Lid Spring	Decal (Clear With Flose) Decal (Caution 540 RPM)		10 10 11 11 11 11 11 11 11 11 11 11 11 1
PT-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-115-00 PB-115-00 PB-701-00 PB-400-00 PB-223-00 PB-222-00 PB-223-00 PB-323-00 PB-323-00 PB-204-00 PB-204-00 PB-204-00 PB-204-00 PB-204-00	Decal (Clear With Flose) Decal (Caution 540 RPM)		3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 2 2 2 2 3 3 2 2 2 3 3 2 2 3 3 3 2 3
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-203-00 PB-220-00 PB-220-00 PB-113-00 PB-323-00 PB-323-00 PB-202-00 PB-202-00 PB-202-00 PB-202-00	Decal (Clear With Flose) Decal (Caution 540 RPM)		3 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 6 5 4 3 2 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-203-00 PB-220-00 PB-220-00 PB-213-00 PB-323-00 PB-323-00 PB-323-00 PB-202-00	Decal (Clear With Flose) Decal (Caution 540 RPM)		3 22 2 2 2 2 2 2 2 2 2 2 3 3 5 6 5 4 3 2 3 3 6
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-400-00 PB-223-00 PB-223-00 PB-223-00 PB-323-00 PB-323-00 PB-323-00 PB-323-00 PB-323-00	Decal (Clear With Flose)		22 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3
P1-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-400-00 PB-220-00 PB-220-00 PB-223-00 PB-113-00 PB-113-00 PB-323-00	Decal (Clear With Flose)		22 22 22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-502-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-400-00 PB-220-00 PB-220-00 PB-222-00 PB-113-00	Decal (Clear With Flose)		222222222222222222222222222222222222222
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-400-00 PB-235-00 PB-220-00 PB-222-00	Decal (Clean with mose)		222222222222222222222222222222222222222
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-502-00 PB-114-00 PB-115-00 PB-701-00 PB-701-00 PB-109-00 PB-400-00 PB-235-00 PB-235-00 PB-220-00 PB-203-00	Decal (Clean With Hose)		22 22 22 22 22 22 22 22 22 22 22 22 22
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-114-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-109-00 PB-235-00 PB-235-00 PB-220-00	Decal (Clean with mose)		222200876643270
P1-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-105-00 PB-114-00 PB-115-00 PB-115-00 PB-701-00 PB-701-00 PB-400-00 PB-400-00 PF-235-00	Decal (Clear With Hose)		222200000000000000000000000000000000000
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-502-00 PB-115-00 PB-115-00 PB-536-00 PB-701-00 PB-701-00 PB-400-00	Decal (Clean with mose)		22200070054
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-502-00 PB-114-00 PB-115-00 PB-715-00 PB-701-00 PB-701-00	Decal (Clean with mose)		222 2 2 3 3 3 3 4 3 2 3 3 3
P1-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-502-00 PB-114-00 PB-115-00 PB-536-00 PB-701-00	Decal (Clean with mose)		22 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PI-316-00 BLP-106-00 PB-110-00 PB-105-00 PB-502-00 PB-114-00 PB-115-00 PB-536-00	Decal (Clean with Hose)		
P1-316-00 BLP-106-00 PB-110-00 PB-104-00 PB-105-00 PB-502-00 PB-114-00 PB-115-00	Decal (Clean With Hose)		
PI-316-00 BLP-106-00 PB-110-00 PB-104-00 PB-105-00 PB-502-00 PB-114-00	Decal (Clean with nose)		
PI-316-00 BLP-106-00 PB-110-00 PB-104-00 PB-105-00 PB-502-00	Decal (Clean with nose)1 Decal (Caution 540 RPM)1 7 Finger Grate Guide1		
PB-104-00 PB-110-00 PB-104-00 PB-105-00	Decal (Clean with Hose)1		
PI-316-00 BLP-106-00 PB-110-00 PB-104-00	Cecal (Clean VIII TOSE)		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
BLP-106-00 PB-110-00	D-1-1 ()		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
BLP-106-00	Decal (Caution Keep All Guards)1		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
T-316-00	Front Belt Shield1		
DT 010 CO	Tub Base Assembly (2-String)1		<u> </u>
42 PT-313-00 Lid Eyebolt	Tub Drive Belt Blower Models (A128)1		
PT-321-00	Decal (Goossen Mainframe)2		(0
PT-320-00	Tub Belt Shield1		<u> </u>
39 PT-312-01 Safety Lid	Belt Guide1		~!
38 PT-300-00 Bale Tub (2-Wire)	Idler Pulley Spacer2		<u></u>
37 PF-201-00 Bale Carrier	Narrow Idler Pulley4	PB-117-00	(Ti
PF-220-00	TOB Serial Number)		
PF-219-00	Cap Plug, 1 1/2"2		 ယ ၊
PF-216-00	3-Point Pin w/Hardware2		
33 50-WUSS 1/2" USS Flat Washer4	Wain Frame	PF-500-00	
d No. No. Description	Description Req'd		No.
Ref. Part	No.	Part	Ref.

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BALE CHO	BALE CHOPPER OPTIONS AND ACCESSORIES	DECALS / OWNER'S MAN	MANUALS	
Part	No.	-		No.
No.	Description Req'd	No. No.	Description	Req'd
GF-404	Fire Extinguisher (Gas Tubs Only)1	GF-224	Gas Serial Number Decal	
PT-504	Directional Spout Extension1	PF-236	PTO Serial Number Decal	
PT-308	Bale Tub (3-Wire)1	GF-245	Caution (Engine Area)	2
PT-306	Safety Lid (3-Wire)	PF-238	Caution (Safety Shields)	2
PT-309	Tub Base Assy (3-Wire)1	PT-321	Bale Chopper (Bale Tub)	2
PT-330	6" Hose Splice1	PT-320	Caution (Cut Strings)	
NA1240WLKT	Gas Chopper Wheel Kit1	PF-239	Caution (RPM Label)	
GP-123	ESEC to ESME Conversion1	GF-247	Caution (Clean with Hose)1	-
GF-409	Honda Spark Pluc Wrench1	GF-408	Caution (Do Not Start Engine)	
	ď	PF-243	Goossen Mainframe	2
		PF-237	Warning Rotating Knives	
		BD-730	Serial No. Decal (BDC-1)	
		BD-731	Keep Feet and Hands Clear Decal	
		BLP-107-00	Chute Decal	
		GP-152-00	Chopper Owner's Manual	
		GF-224	NA5000PSME - SER #	
Not illustrate	Not illustrated, order by description.	GF-524	NA6000ESME - SER #	
		GF-804	NA8000ESME - SER #	
		GF-805	NA8500ESME - SER #	
		PF-236	NA1000PTOB - SER #	
		- DE 236 00	NIA 1500DTOB _ 000 #	٠.

YTNARRAW

The Goossen Bale Chopper is warranted against defects in workmanship and materials for one year from purchase date.

Gooseen Industries will repair or replace, at our option, any part which our examination shows to be defective. Warranty is limited to parts only. Labor and transportation charges for parts submitted under this warranty will be paid by the user.

No product or parts may be returned for warranty consideration without prior written approval from Goossen Industries.

This warranty does not apply to parts subjected to misuse, abuse, alteration, improper or inadequate maintenance, or normal wear.

Gasoline engines are not covered under this warranty. Refer to the manufacturer's warranty included for specific warranty information.

Goossen Industries, its agents or representatives, make or imply no other warranties.