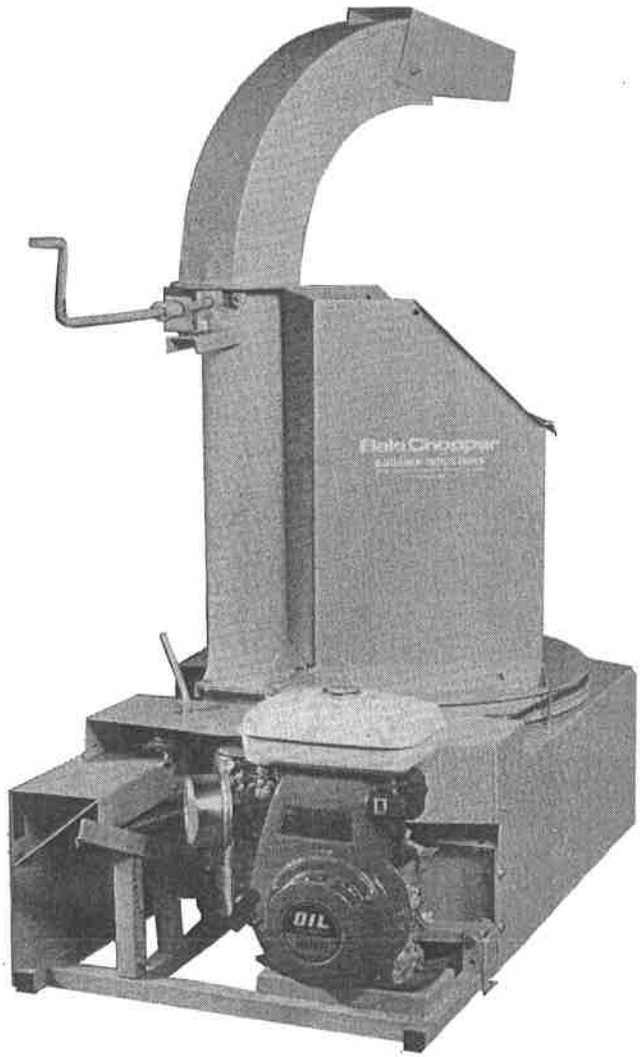
clutch for BC-2 942020
banded drive belt 940029
impeller pulley 2V with clutch models 942015

Operator's Manual

Parts and Service Information



Goossen

BALE CHOPPER

MODELS

BCG2

(Self-powered Model)

and

BC3

(PTO Model)

[redacted] Specifications

Self-powered Model BCG2

GENERAL INFORMATION

POWERED BY: **10 HP 4 Cyl. Honda Engine**
WIDTH: **31''** HEIGHT: **51''** LENGTH: **55''** WEIGHT: **400 lbs.**
ROTOR: **15'' x 9''** NUMBER OF KNIVES: **22**
BLOWER DIA.: **16''** NUMBER OF BLOWER PADDLES: **6**
STANDARD GRATE: **15'' x 11¼''** STANDARD GRATE SPACING: **2½''**
OPTIONAL GRATE SPACING: **1¼'' or 3¾''**

RISER & SPOUT SPECIFICATIONS
STANDARD RISER & SPOUT HEIGHT: **48''**
SPOUT ROTATION: **180 Degrees**
OPTIONAL HOSE SPOUT ADAPTOR HEIGHT: **30''**

HOSE SPECIFICATIONS
FLEX HOSE: **6'' ID** STANDARD LENGTH: **30 Feet**
OPTIONAL LENGTHS: **20 or 60 Feet**

CUTTING TIME PER BALE
*STANDARD RISER & SPOUT: **35 to 45 Seconds**
*6'' x 30' FLEX HOSE: **45 to 60 Seconds**

PTO Model BC3

GENERAL INFORMATION

POWERED BY: **540 PTO**
WIDTH: **31''** HEIGHT: **55''** LENGTH: **60''** WEIGHT: **525 lbs.**
ROTOR: **27'' x 9''** NUMBER OF KNIVES: **40**
BLOWER DIA.: **16''** NUMBER OF BLOWER PADDLES: **6**
STANDARD GRATE: **27'' x 12''** STANDARD GRATE SPACING: **2½''**
OPTIONAL GRATE SPACING: **1¼'' or 3¾''**

RISER & SPOUT SPECIFICATIONS
STANDARD RISER & SPOUT HEIGHT: **48''**
SPOUT ROTATION: **180 Degrees**
OPTIONAL HOSE SPOUT ADAPTOR HEIGHT: **30''**

HOSE SPECIFICATIONS
FLEX HOSE: **6'' ID** STANDARD LENGTH: **30 Feet**
OPTIONAL LENGTHS: **20 or 60 Feet**

CUTTING TIME PER BALE
*STANDARD RISER & SPOUT: **35 to 45 Seconds**
*6'' x 30' FLEX HOSE: **45 to 60 Seconds**

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

Introduction

This manual gives you assembly, operating, and service information for Model BC3 and Model BCG2 Goossen 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, SAFETY 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.

SAFETY WARNING. Never force material onto the cutting knives.

SAFETY WARNING. Do not feed bales tied with wire into the Chopper.

SAFETY WARNING. Wear approved eye protection while operating the Bale Chopper.

SAFETY WARNING. Keep hands and feet out of the tub. Never operate Bale Chopper with tub removed.

Table of Contents

Assembly

Using the hardware supplied:

1. Attach the lower spout to the bale chopper. See Figure 1.

2. Mount the upper spout on the lower spout. Be sure to install the roller bearings as shown. See Figures 1 & 2.

3. Install the crank assembly. See Figure 2. 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 1.

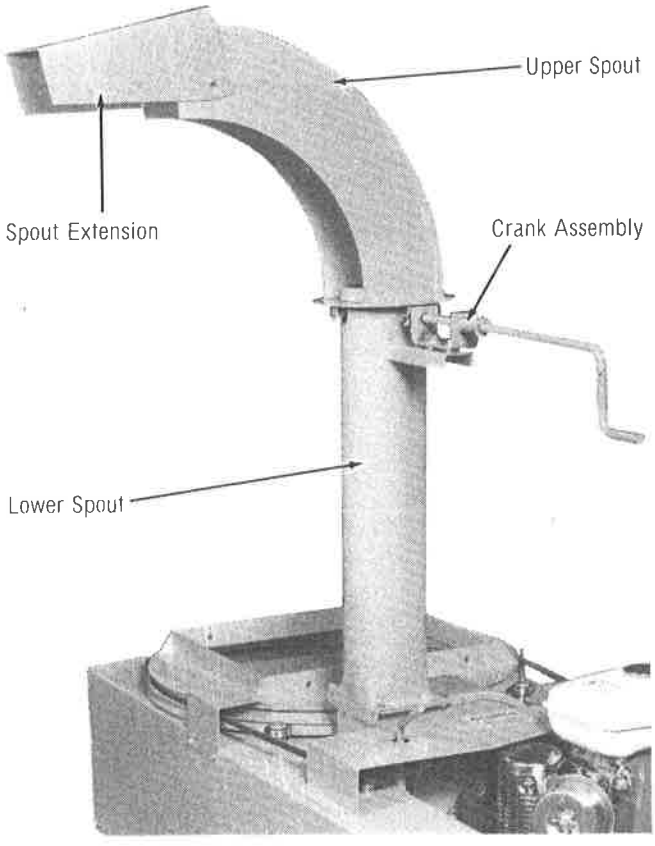


Figure 1 Spout Attachment

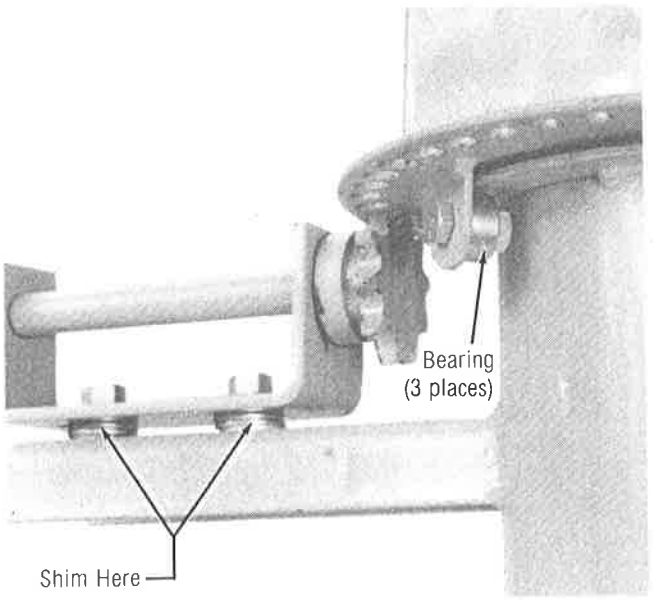


Figure 2 Crank Assembly

PTO Model

1. 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 3.

   Decide how much must be cut off the drive shaft to leave the 3/4'' when it is connected.

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.

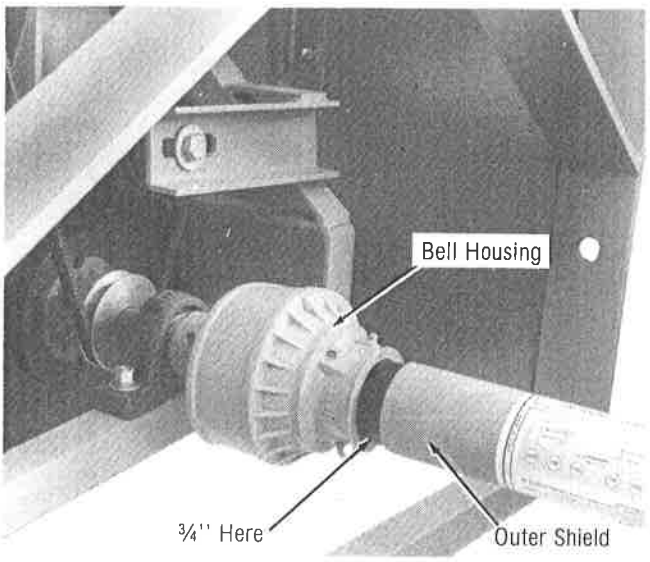


Figure 3 P.T.O. Drive Shaft Installation

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.

Control Identification

PTO Model

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

Tub Rotation Lever

Figure 4 shows the location and action of the lever which controls tub rotation.

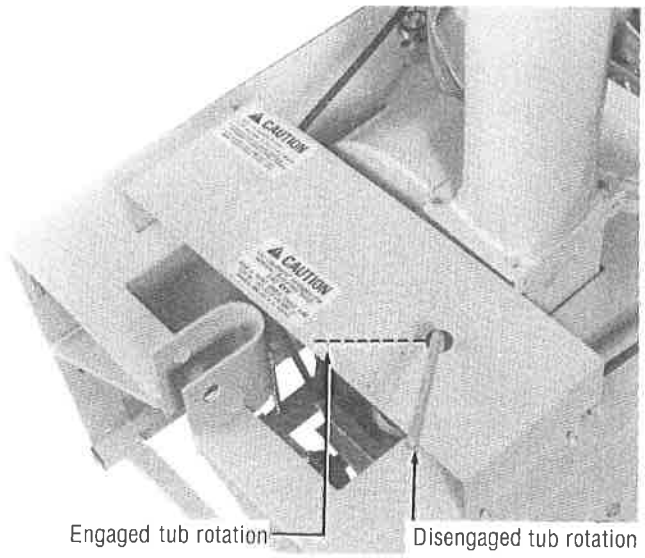


Figure 4 Tub Rotation Lever
(P.T.O. Model)

Self-powered Model

Blade Rotation Lever

Figure 5 shows the location and action of the lever which causes the cutting blades to move. This lever has a pin on it which locks it into position in the holes shown. The pin must be released and the lever held to the right as it is moved up or down.

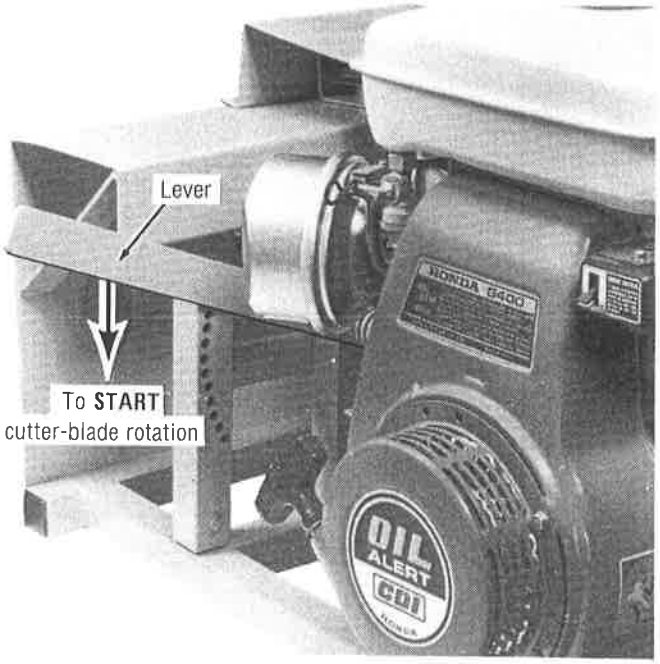


Figure 5 Rotary-blade Engagement Lever

Tub Rotation Lever

Figure 6 shows the location of the lever which engages the tub assembly.

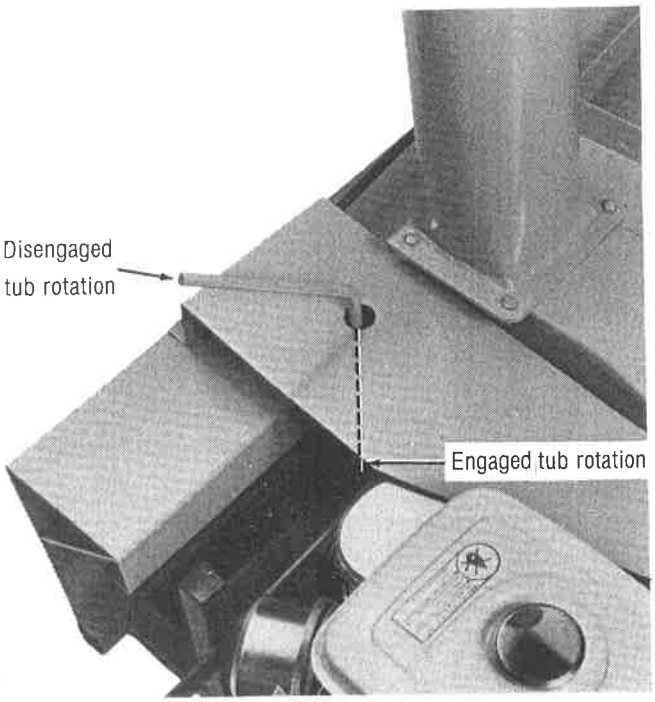


Figure 6 Tub Rotation Lever
(Self-powered Model)

Operation

SAFETY WARNING. Wear approved eye protection while operating the machine.

SAFETY WARNING. Keep all guards in place during operation. Never operate the Bale Chopper with tub removed.

SAFETY WARNING. 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.

SAFETY WARNING. 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.

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

SAFETY WARNING. Before operating the machine, check to ensure that all belt guides and snubbers are in place, to prevent belts from slipping off the pulleys or systems from being accidentally engaged.

PTO Model:

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

SAFETY WARNING. 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:

1. Make sure the tub rotation lever is disengaged.
2. Engage the PTO, to start blade rotation.
3. Set the first bale into the tub.
4. Engage the tub rotation lever.

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

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

To stop operation:

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

Self-powered Model

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.

SAFETY WARNING. Make sure that the belt guides (shown in Fig. 7) are in place on the engine, and that the lower guide is positioned so the belt bulges away from the pulley when it is slack. This helps prevent accidental engagement of the cutting blades.

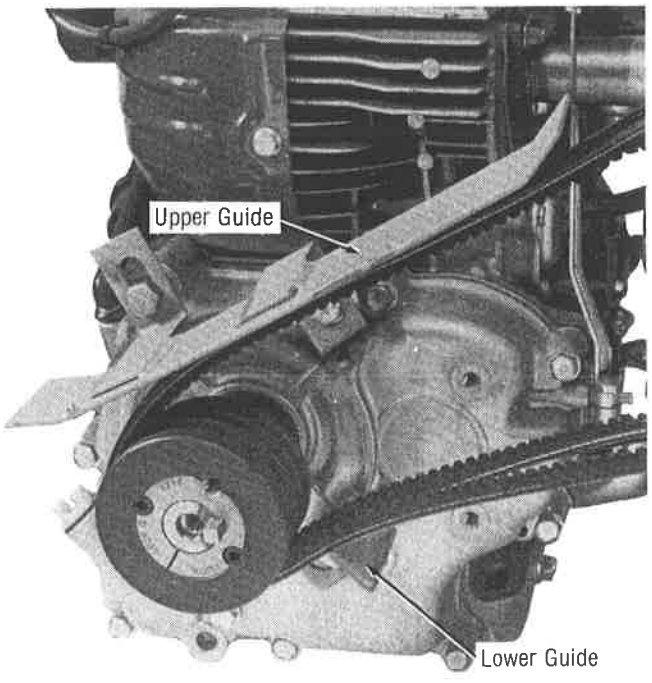


Figure 7 Engine-mounted Belt Guides
(engine removed from chassis for photo)

To begin operation:

1. Make sure the tub rotation lever is in the disengaged position. See Figure 6.
2. Start the engine, following the manufacturer's instructions.
3. Engage the Rotary Blade Lever to start blade rotation.
4. Place the first bale 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. Lift the blade rotation lever fully upward to stop cutter blade rotation.
3. Shut off the engine.

Adjustments

Belt Tension Adjustment

Note: Use only industrial v-belts, 3 - 3V x 315 or equivalent. Do not use automotive v-belts.

PTO Model

The belts which turn the cutter shaft on the PTO Model BC3 are adjusted by means of two 7/16'' threaded rods located beside the PTO shaft (See Fig. 8).

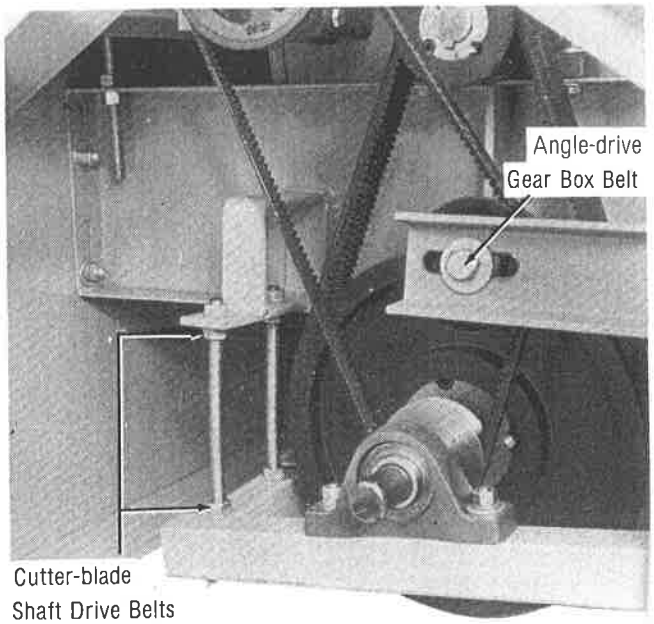


Figure 8 Belt Tension Adjustment Points
(P.T.O. Model)

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 Fig. 8).

The belt which turns the tub is adjusted by moving an adjustable idler. See Fig. 9.

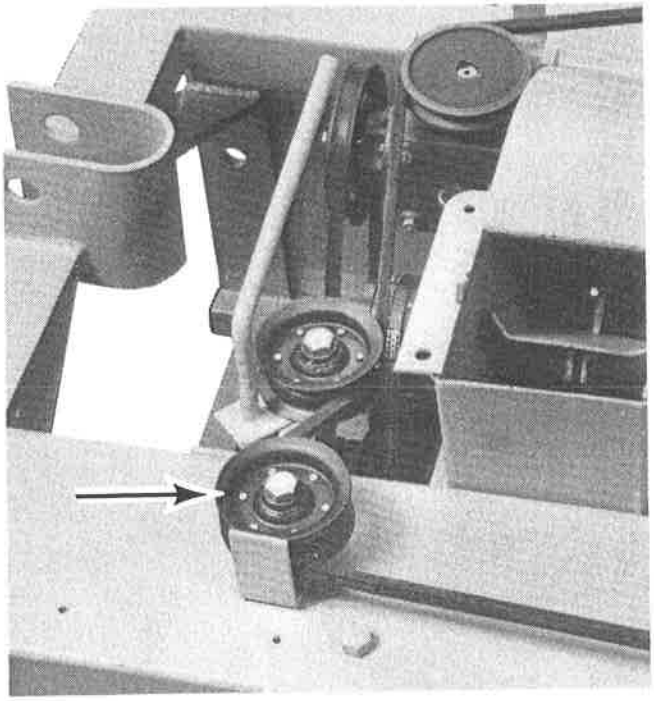


Figure 9 Tub-belt Tension Adjustment
(shown with cover removed) (P.T.O. Models)

Self-powered Model

The belts which turn the cutter shaft on the BCG2 are adjusted by relocating the engine in its mounting slots.

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 Fig. 10.

The belt which turns the tub is adjusted by moving an adjustable idler. See Fig. 10.

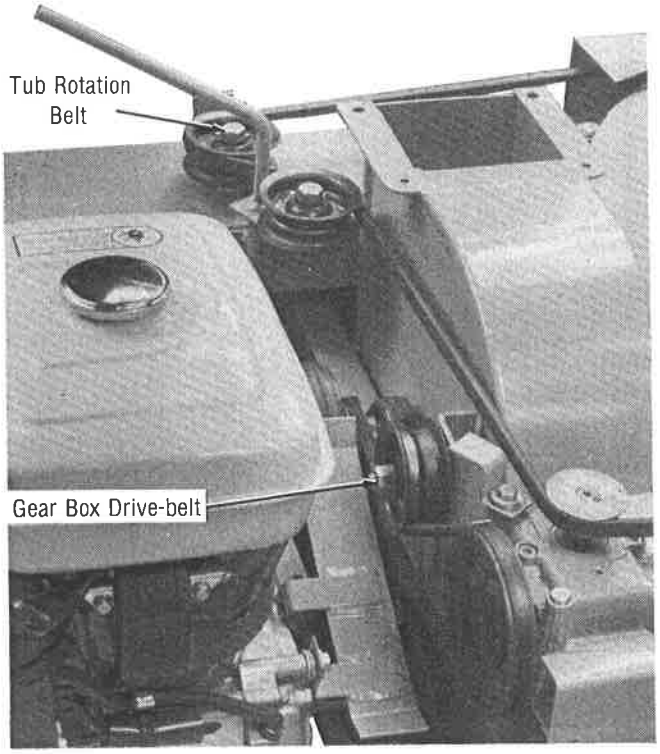


Figure 10 Belt Tension Adjusting Points
(Self-powered Models)

■ Knife Height Adjustment (Depth of Cut)

Depth of cut can be adjusted from 1'' to 1-7/8''. Maximum depth (1-7/8'') is recommended for chopping most materials.

If the material being chopped is especially difficult (frozen, wet, etc.), or if a finer- than-normal cut is desired, the blades (depth of cut) can be changed by repositioning the rotary assembly.

To adjust depth of cut:

1. Loosen the eight bolts that secure the rotary-blade/carriage assembly to the sides of the chopper housing (PTO model) or housing/frame (self-powered model). Figures 11 and 12 show rear adjusting points. Front adjusting points are similar in both models.

2. Adjust the height of the blade tips by turning the adjusting nuts on the 4-1/2'' leveling bolts the same number of revolutions.

Note: Rear leveling bolts not used on self-powered models.

3. Tighten the eight mounting bolts.
4. Tighten the locking nuts on the leveling bolts.
5. Check belt tension and adjust as needed.

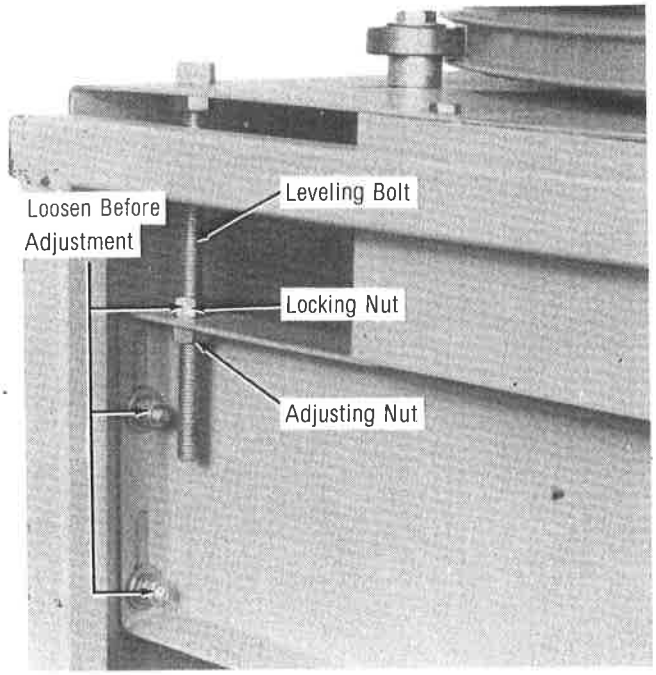


Figure 11 Blade Height Adjustment
(P.T.O. Models)

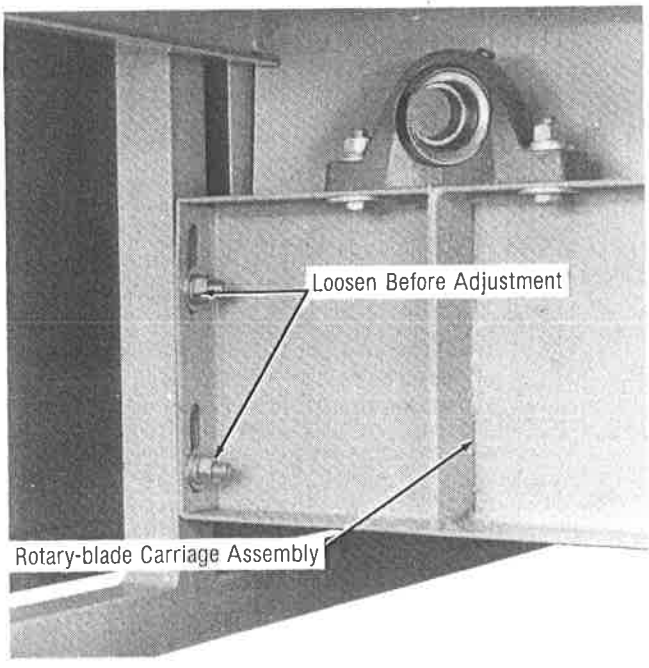


Figure 12 Blade Height Adjustment
(Self-Powered Models)

Blower Paddle Adjustment

Blower paddles must be adjusted so there is approximately 1/8'' between the ends of the paddles and the wall of the blower housing where indicated in Figure 13. To adjust:

1. Loosen the bolts which mount the shaft assembly bearing at the front of the machine, so the entire paddle wheel and shaft can be slid over.
2. Insert a 1/8'' rod or bar between the end of the paddle and the housing wall, as shown in Fig. 13.
3. Rotate the shaft assembly to ensure that all paddles are set properly.
4. Tighten the bearing mounting bolts securely, to maintain the setting.

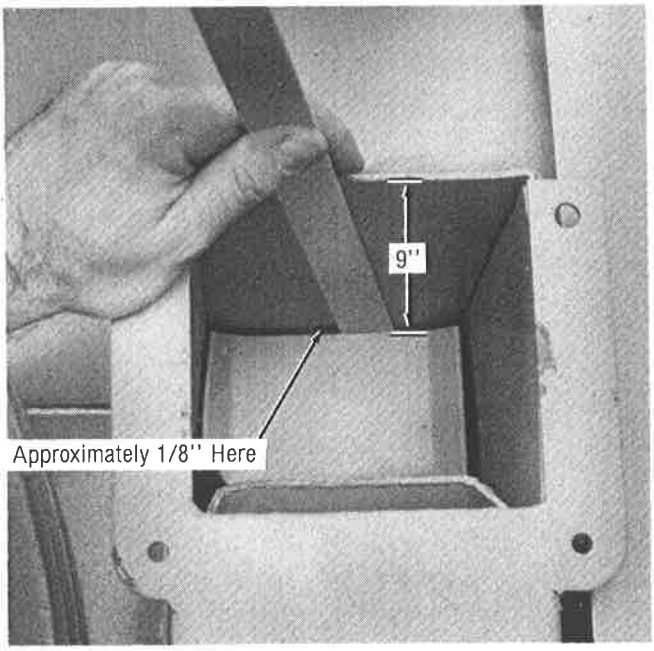


Figure 13 Proper Blower Paddle Clearance

Special-order equipment

Fine-Chop Grate

A finer grate is available to help in getting a finer chop for feeds or special applications.

Slow-rotation Tub Pulley

Bale tub rotation can be slowed to 12 RPM rather than the standard 18 RPM, by replacing the standard 4'' pulley with a smaller diameter pulley. This will help produce a finer cut, but it will reduce the cutting speed.

Note: Additional knives added to the rotary assembly will give a finer chop.

Material Distribution

A spout adapter and a 30' by 6'' hose are available, to enable efficient distribution of mulching materials just where they are needed. These can be mounted on either model Bale Chopper.

Service

Break-in service

After the first 10 - 15 bales:

1. Check belts. Retension if needed.
2. Tighten set screws on bearings.
3. Check drum carrier bearings for adjustment. See Fig. 14.

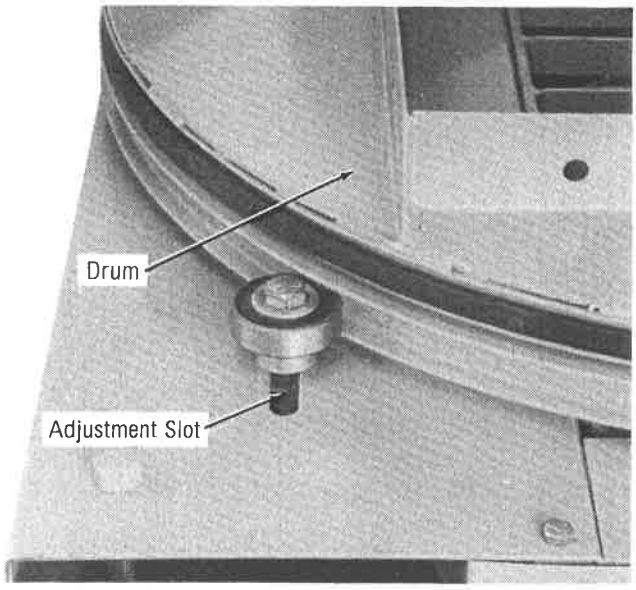


Figure 14 Drum Carrier Bearing Position

Periodically check belt tension and carrier bearing adjustment.

Lubrication

Chute

As needed:

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 mounting brackets.

Bearings

The bearings are sealed and require no lubrication.

Gear Box

PTO Model

At 15 - 60 degrees F.:

Use AGMA No. 2 oil, viscosity 284-347 SSU

At 50 - 125 degrees F.:

Use AGMA No. 4 oil, viscosity 626-765 SSU

At 100 HRS:

1. Drain the reducer while warm.
2. Thoroughly flush the housing with a light flushing oil.
3. Refill the reducer with 4 oz. of fresh lubricant.

Every 6 months:

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

Self-powered Model

No oil change or addition is necessary unless unit leaks.

Use Mobil SHC 634 wormgear lubricant, or equivalent.

Gasoline Engine

Follow manufacturer's instructions.

Knife Replacement

SAFETY WARNING. Wear protective gloves whenever handling blades or working near them.

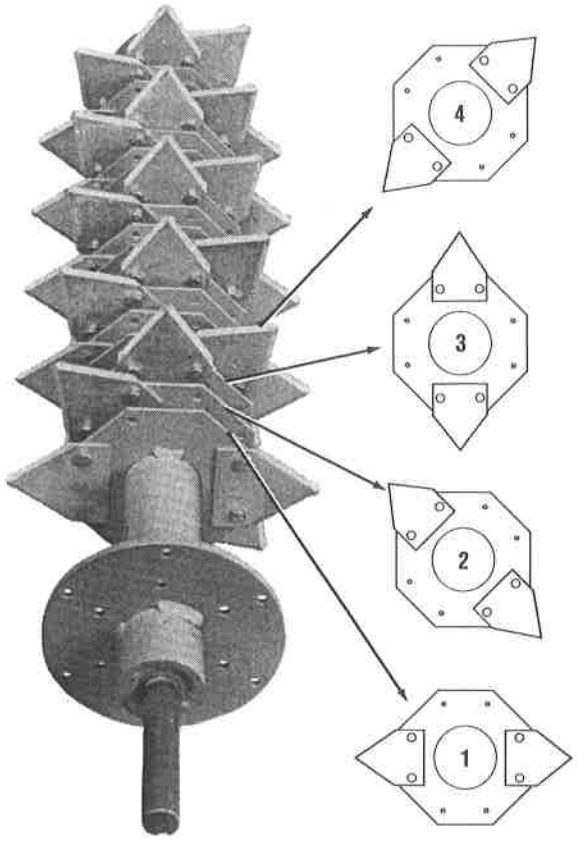
Note: If the serrations are worn down but the tip of the knife is still intact, the knife may be turned around and remounted.

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.

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 spiral pattern of the original knives. See Figure 15.



Repeat mounting sequence each 4th plate.

Figure 15 Correct Cutter-blade Installation Pattern

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

SAFETY WARNING. 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 8 1/4''-20 x 1/2'' bolts and locknuts, treated with Loc-tite® (or equivalent). Tighten lock nuts to 18 in. lbs.

To replace knives:

1. Remove the belt from around the tub.
2. Loosen the bolts mounting the rear drum carrier bearings. See Figure 14.
3. Slide the loosened bearings toward the rear, and remove the tub from the bale chopper.
4. Remove the two bolts holding the grate above the rotary assembly and lift out the grate.
5. Remove and replace knives as necessary, using only Grade 8 1/4''-20 x 1/2'' bolts and lock nuts secured with loc-tite® (or equivalent) and tightened to 18 in. lbs.
6. Reinstall the grate.
7. Adjust the height of the cutters above the grate, if necessary. (See ''Knife Height Adjustment,'' Pg. 6)
8. Reinstall the tub.

Troubleshooting

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.
	Knives may be too dull.
	Knives may be set too high (cutting too deeply).
	Foreign material may be lodged in chopper (on knives or blower paddles).
	Bearings may have seized.

Discharge Components

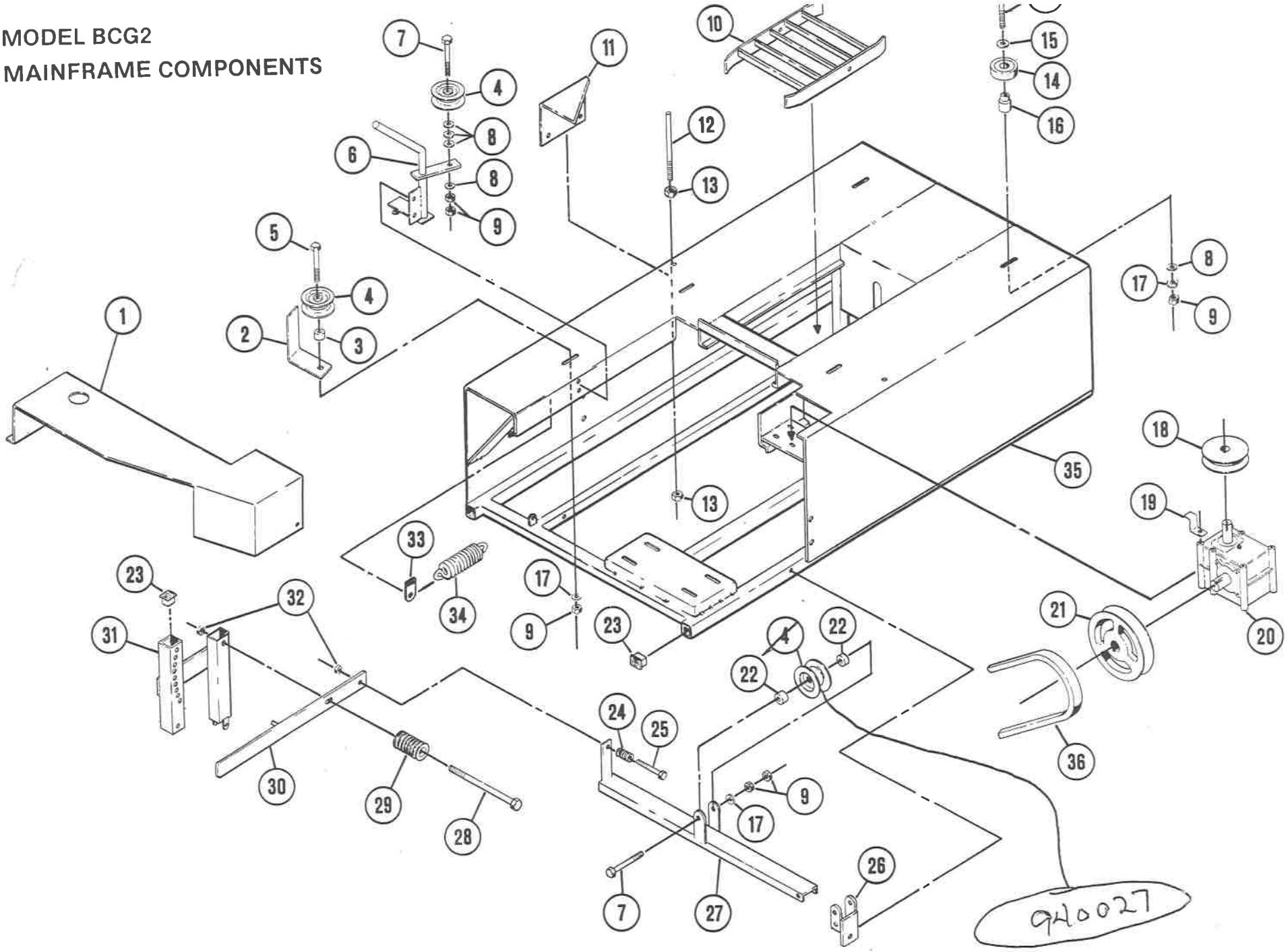
Problem	What to Check
Hose plugs	Blower paddles may need adjustment. See Fig. 13.
	Material being chopped may have too much moisture in it.
	RPM may not be high enough. (540 RPM is recommended for most applications.)
	Foreign material may be lodged in the hose.

Gear Box

Problem	What to Check
Oil leaks	Housing bolts may be loose.
	Oil seals may need replacement.
Gear box overheats	Oil level may be low.
	Dirt or grease may have accumulated around the gear box.
Gear box vibrates, is very noisy	Oil level may be low.
	Components may be worn or damaged.
	Load may be excessive.

MODEL BCG2

MAINFRAME COMPONENTS

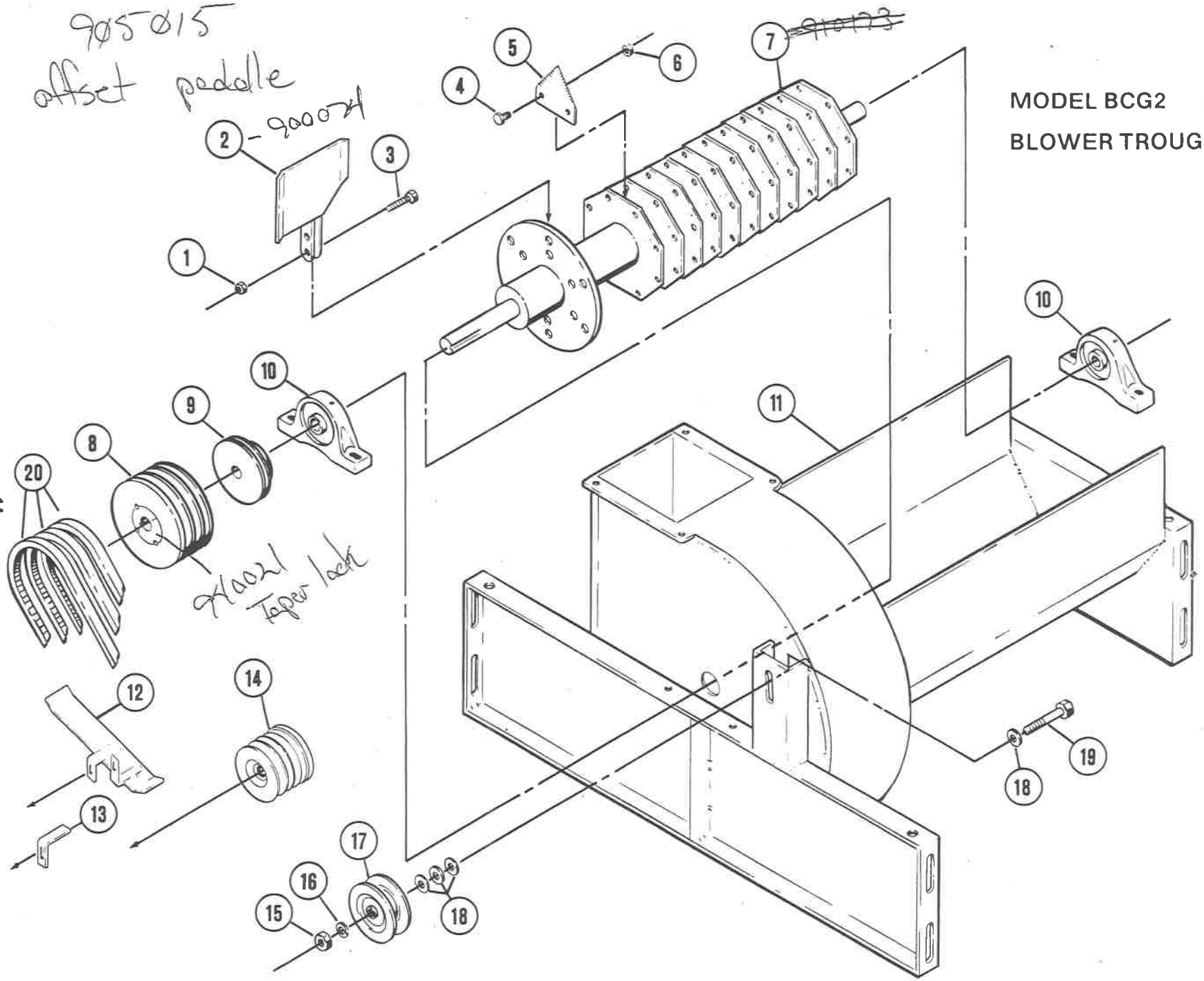


MODEL BCG2 MAINFRAME COMPONENTS

Item #	Part Number	Description	Qty.
1	GF202	Front Belt Shield	1
2	PF212	Belt Guide	1
3	PF213	Spacer	1
4	PB117	Idler Pulley	3
5	GF219	Bolt, ½ x 3½", hex. hd.	2
6	GF218	Shift Assembly	1
7	PF214	Bolt, ½" x 2½", hex. hd.	6
8	PB116	Flat Washer, ½"	9
9	PB121	Nut, ½"	9
10	GF201	Standard Grate	1
*	GF221	Fine Chop Grate	1
11	GF217	Tub Belt Shield	1
12	PF216	Belt Guide	2
13	PF217	Nut, 5/16" hex.	4
14	PF219	Tub Bearing	4
15	PF218	Flat Washer, 7/16"	4
16	PF220	Tub Bearing Spacer	4
17	PB122	Lockwasher, ½"	6
18	GF216	Sheave, 2¼"	1
19	GF215	Belt Guide	1
20	GF214	Gear Box (20-to-1 Ratio)	1
21	PF205	Sheave 20 or 15	1
22	GF213	Spacer	2
23	PF215	Cap Plug, 1½"	6
24	GF210	Spring	1
25	GF211	Bolt, 5/16" x 2½" hex. hd.	1
26	GF212	Swivel Assembly	1
27	GF203	Engaging Channel	1
28	GF208	Bolt, 5/16" x 4" hex. hd.	1
29	GF206	Spring	1
30	GF205	Engaging Handle	1
31	GF204	Handle Assembly	1
32	PB107	Locknut, 5/16" hex.	2
33	GF209	Spring Tab	1
34	PF211	Spring, Shift Assembly	1
35	GF200	Main Frame	1
36	GF220	Belt, Gear Box Drive	1

940001

* Not Illustrated, order by description only.


905015
offset paddle
2 - 900024
MODEL BCG2
BLOWER TROUGH ASSEMBLY
A4021
Taper lock

In the older Goossen Bale Chopper manuals (BCG-2 / BC-3), PB-110 was the bolt used for the knife. In the newer manuals (NA5000, etc.), PB-110 was the taper-lock used on the impeller shaft of the PTO units. This crosses to our taper-lock 940007 (1210 x 1" IK).

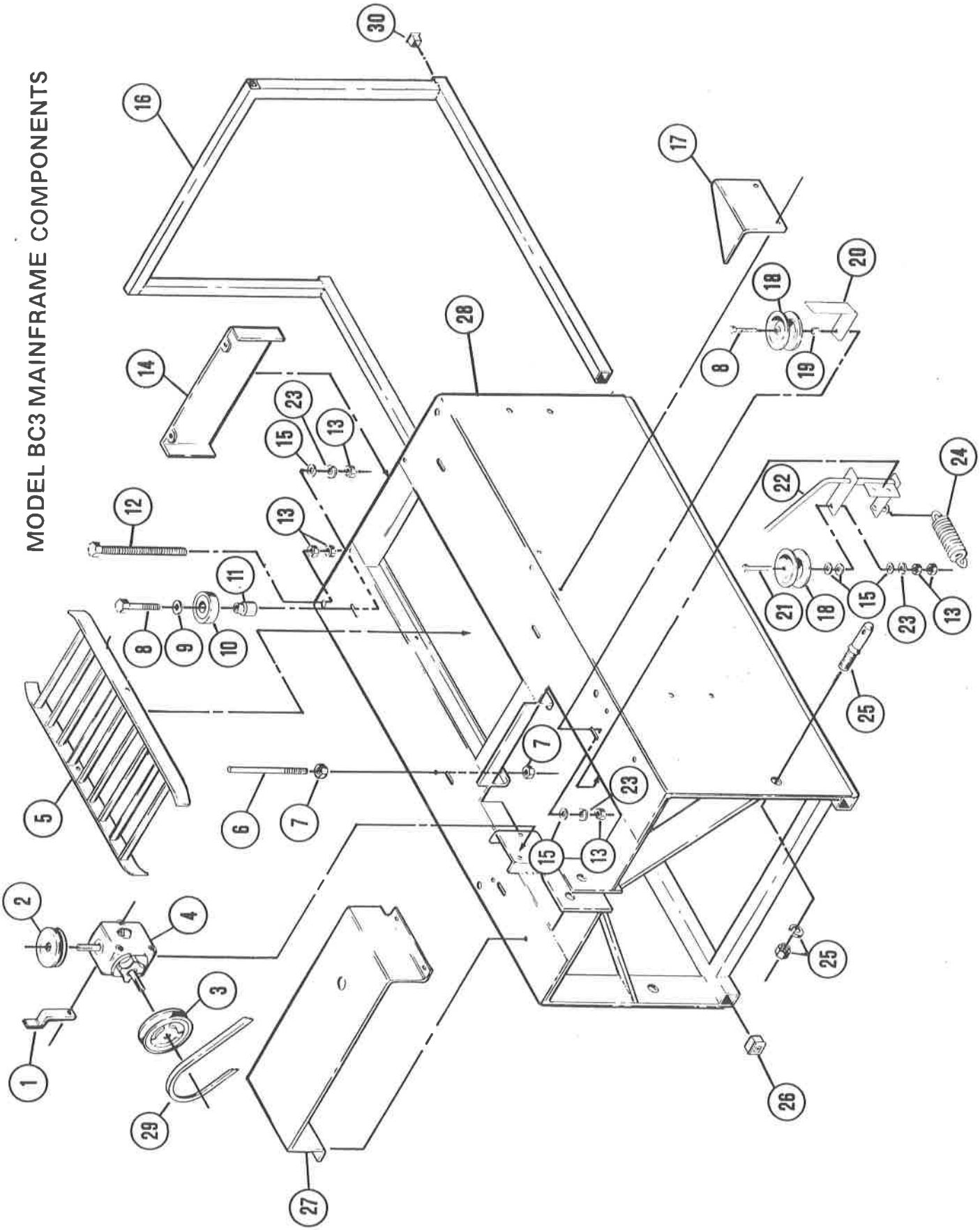
MODEL BCG2 BLOWER TROUGH ASSEMBLY

Item #	Part Number	Description	Qty.	Item #	Part Number	Description	Qty.
1	PB107	Locknut, 5/16'' hex.	12	11	GB100	Blower Trough Assembly	1
2	GB102	Blower Paddle	6	12	GB105	Upper Belt Guide	1
3	PB108	Bolt, 5/16'' x 1½'' hex. hd.	12	13	GB106	Lower Belt Guide	1
4	PB110	Bolt, ¼'' x ½'' Grade 8 hex. hd.	as req'd.	14	GB104	Drive Sheave	1
5	PB109	Cutting Knife	as req'd.	15	PB121	Nut, ½'' hex.	1
6	PB111	Locknut, ¼'' hex.	as req'd.	16	PB122	Lockwasher, ½''	1
7	GB101	Main Rotor	1	17	PB117	Idler Pulley	1
8	GB103	Rotor Sheave	1	18	PB116	Flat Washer, ½''	4
9	PB113	Sheave, 2½''	1	19	PB118	Bolt, ½'' x 2½'' hex hd.	1
10	PB105	Sealed Bearing	2	20	GB123	Belt, Drive	3

905020
GB301
94/2095

94/2007
94/2007 bushing
1"

MODEL BC3 MAINFRAME COMPONENTS

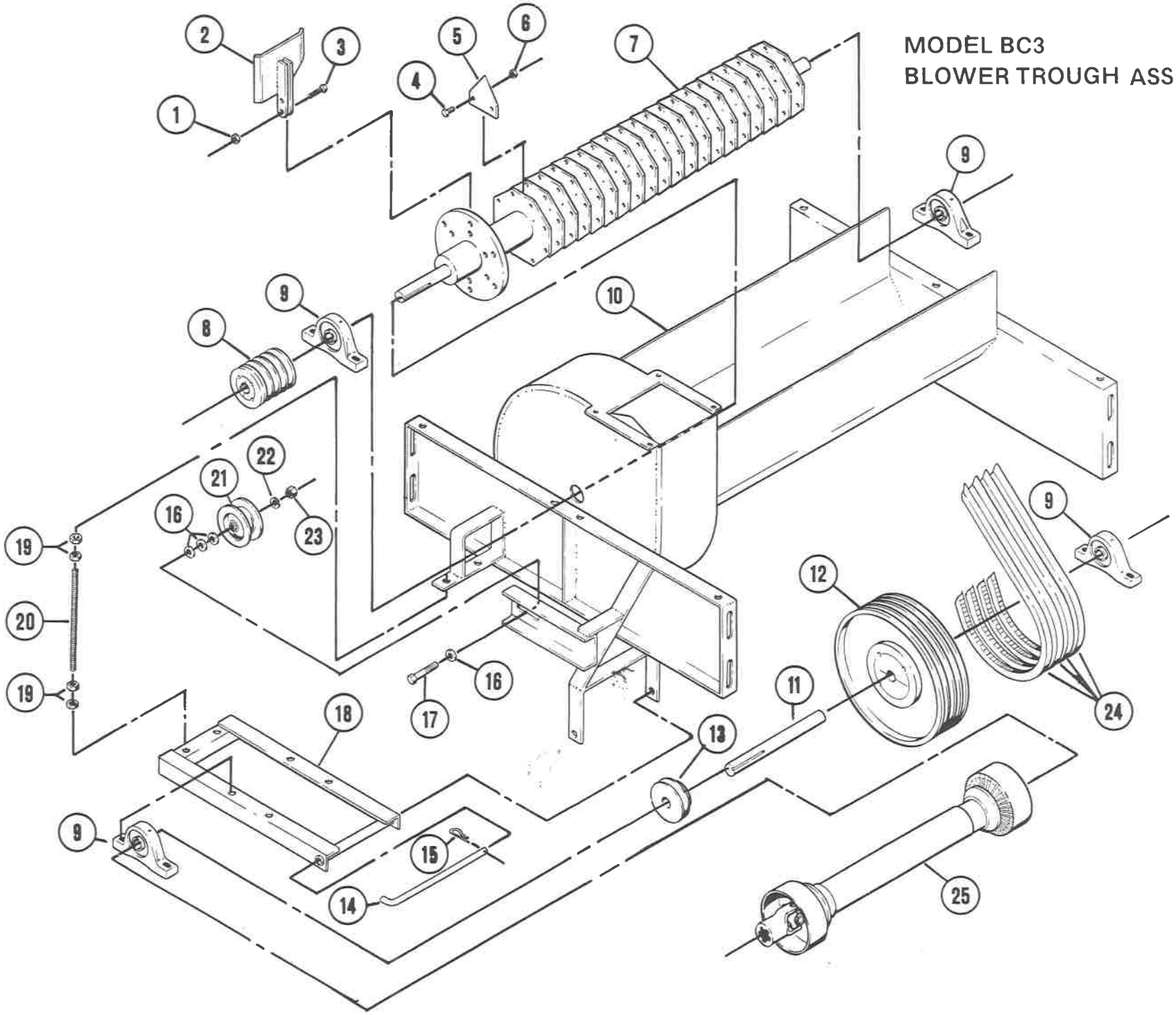


MODEL BC3 MAINFRAME COMPONENTS

Item #	Part Number	Description	Qty.
1	PF207	Belt Guard	1
2	PF206	Sheave, 3-3/4"	1
3	PF205	Sheave, 4"	1
4	PF204	Gear Box (2 to 1 Ratio)	1
5	PF203	Standard Grate	1
*	PF223	Fine Chop Grate	1
6	PF216	Belt Guide	2
7	PF217	Nut, 5/16" hex.	4
8	PB118	Bolt, ½ x 2½" hex. hd.	5
9	PF218	Flat Washer, 7/16"	4
10	PF219	Tub Bearing	4
11	PF220	Tub Bearing Spacer	4
12	PF221	Adjustment Bolt, ½" hex. hd.	4
13	PB121	Nut, ½" hex.	11
14	PF208	Rotor Shield	1
15	PB116	Flat Washer, ½"	7
16	PF201	Bale Carrier	1
17	PF209	Belt Guard	1
18	PB117	Idler Pulley	2
19	PF213	Spacer	1
20	PF212	Belt Guide	1
21	PF214	Bolt, ½" x 2½" hex. hd.	1
22	PF210	Shift Assembly	1
23	PB122	Lockwasher, ½"	6
24	PF211	Spring (Shift Assembly)	1
25	PF212	3 Point Pin w/Hardware	2
26	PF215	Cap Plug, 1½"	2
27	PF202	Belt Guard	1
28	PF200	Main Frame	1
29	PF222	Belt, Gear Box Drive	1
30	PF224	Cap Plug, 1¼"	4

* Not Illustrated, order by description only.

MODEL BC3
BLOWER TROUGH ASSEMBLY

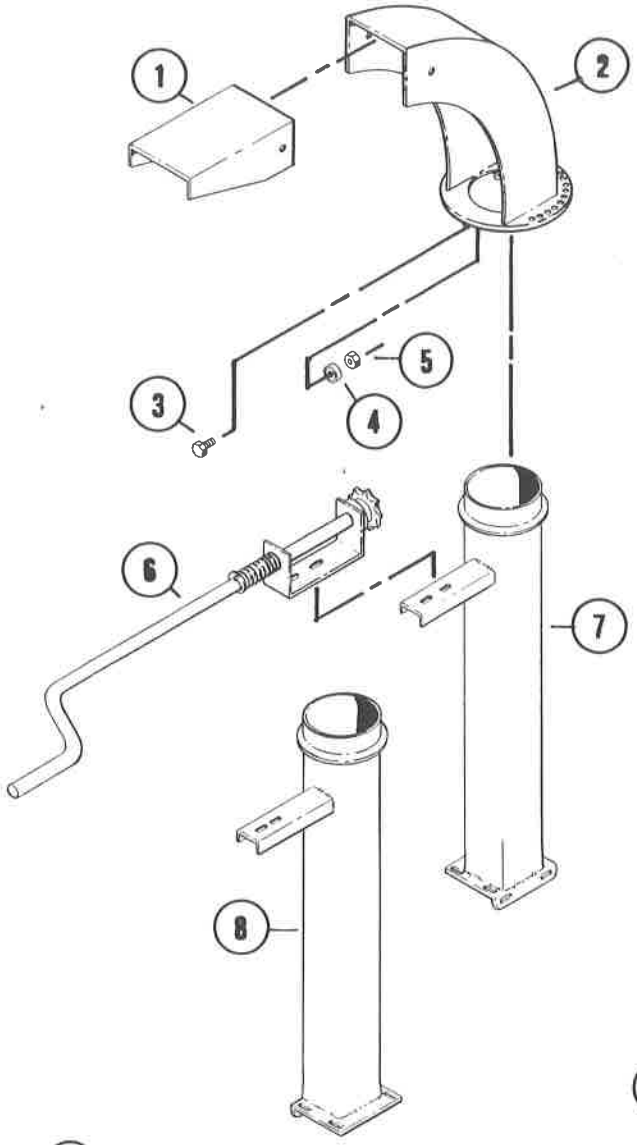


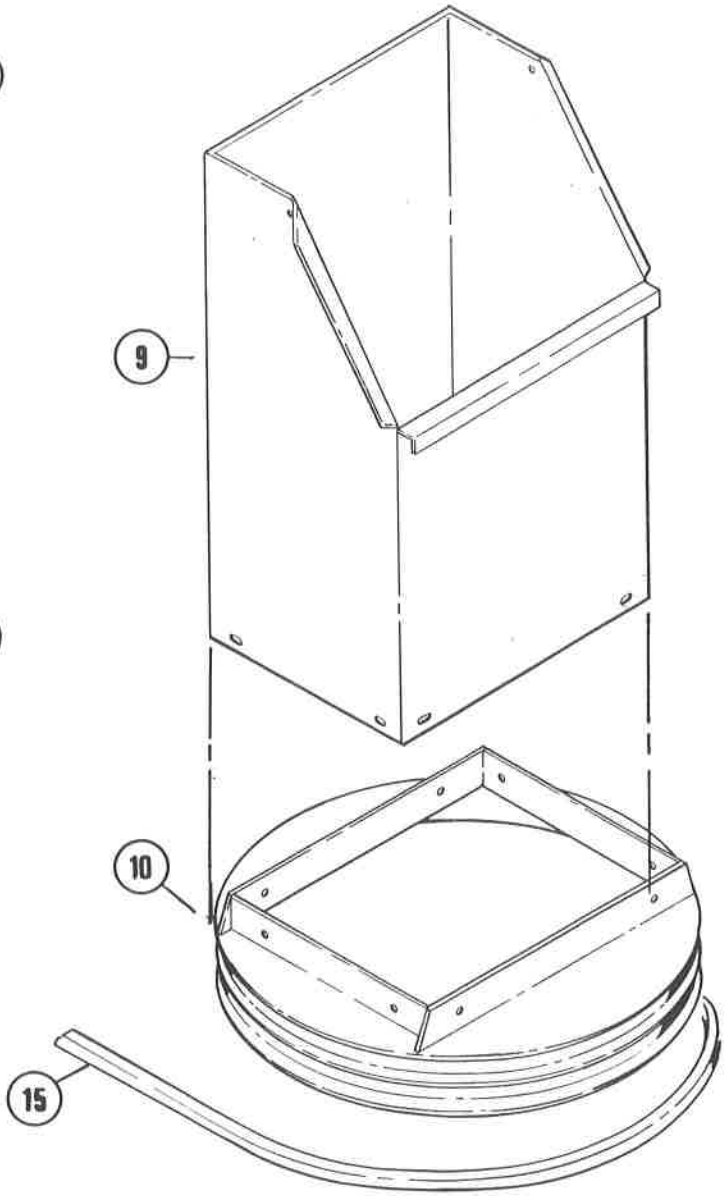
MODEL BC3 BLOWER TROUGH ASSEMBLY

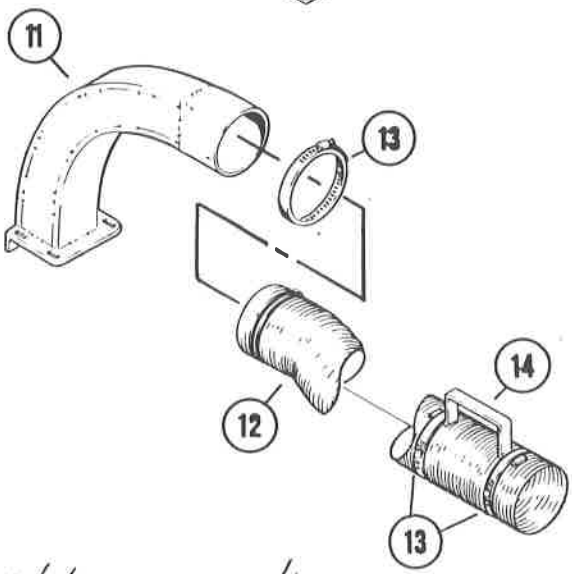
Item #	Part Number	Description	Qty.
1	PB107	Locknut, 5/16''	12
2	PB106	Blower Paddle	6
3	PB108	Bolt, 5/16'' x 1½'' hex. hd.	12
4	PB110	Bolt, ¼'' x ½'' Grade 8 hex. hd.	as req'd.
5	PB109	Cutting Knife	as req'd.
6	PB111	Locknut, ¼''	as req'd.
7	PB101	Main Rotor	1
8	PB104	Rotor Sheave	1
9	PB105	Sealed Bearing	4
10	PB100	Blower Trough Assembly	1
11	PB112	Idler Shaft	1
12	PB102	Drive Sheave	1
13	PB113	Sheave, 3½''	1
14	PB114	Tightener Pin	1
15	PB115	Retainer Clip	1
16	PB116	Flat Washer, ½''	4
17	PB118	Bolt, ½'' x 2½'' hex. hd.	1
18	PB103	Tightener Frame	1
19	PB119	Nut, 7/16'' hex.	8
20	PB120	Adjustment Bolt	2
21	PB117	Idler Pulley	1
22	PB122	Lockwasher, ½''	1
23	PB121	Nut, ½'' hex.	1
24	PB123	Belt, Drive	4
25	PB124	P.T.O. Shaft	1

PB106 900060 standard

900063 offset







TUB AND SPOUT ASSEMBLIES

Item #	Part Number	Description	Qty.
1	PT304	Deflector Spout	1
2	PT303	Upper Spout	1
3	PT306	Bolt, 5/16" x 1/2" hex. hd.	3
4	PT305	Roller Bearing	3
5	PB107	Locking Nut, 5/16" hex.	3
6	PT307	Crank Assembly	1
7	PT302	Lower Spout (P.T.O.)	1
8	GT300	Lower Spout (Gas)	1
9	PT300	Bale Tub (2 Wire)	1
—	PT308	Bale Tub (3 Wire)	1
10	PT301	Tub Base Assembly (2 Wire)	1
—	PT309	Tub Base Assembly (3 Wire)	1
11	NA6000	Spout Adapter, 6"	1
12	NA6010	Hose, 30'	1
13	NA6020	Hose Clamps	3
14	NA6030	Hose Handle	1
*	PT310	Bolt, Truss hd., 5/16" x 3/4" (3 Wire Tub to Base Assembly Only)	8
15	PT311	Tub, drive belt	1

* Not Illustrated, order by description only.

old lower spout is smaller in dia. than newer spout needs a plate to adapt

LIMITED WARRANTY

The GOOSSEN INDUSTRIES BALE CHOPPER is warranted against defects in workmanship and materials for a period of ONE YEAR from purchase date.

GOOSSEN 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 (including belts or knives).

Gasoline engines and electric motors are not covered under this warranty. Refer to the manufacturers warranty included for specific warranty information.

GOOSSEN INDUSTRIES, its agents or representatives make or imply no other warranties.

Goossen

INDUSTRIES

927 West Court
Box 705
Beatrice, Nebraska 68310

Printed in U.S.A.