

GRASS BLOWER CATCHER

FORM NO: 40656 (4-86)

PART NO: 40655

PRINTED IN USA

NOTE

Read this manual carefully and learn to operate and service your grass catcher before using it.

To keep the warranty, the grass catcher must be maintained and operated as directed in this manual.

All references to "left-side", "right-side", "front", and "back" are given from the operator's position.

Use the serial number to ensure prompt and correct service when ordering parts, requesting service, or making inquiries.

SERIAL NUMBER



Look for this symbol to point out important safety precautions. It means -- ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

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operating and servicing the trooterand attachments.

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- 3. SERVICE INSTRUCTIONS
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- 6. WARRANTY

Instructions for Safe Operation

Improper use of this grass vacuum can injure people and damage the equipment. People using or servicing this grass catcher must read and follow the instructions in this manual.

It is important to understand that this manual and any other Gravely instruction manuals do not cover every possible danger. It is impossible for Gravely to know of all possible dangers in operating and servicing the tractor and attachments.

The purchaser must give these instructions to the people operating and maintaining this grass catcher. These people must use eye and foot protection.

1.1 Preparation:

- Read the tractor and the vac operator's manuals carefully.
- Learn the location and function of all tractor and attachment controls.
- Learn how to use the controls to stop the tractor and attachment.
- 4. Use caution with gasoline. Gasoline is very flammable. Keep it in a clean and tight container away from flames or hot items. Never put gasoline in the fuel tank while the engine is running or hot. Clean up spilled gasoline before starting engine.
- Be certain that all shields, guards, and interlock switches are in the correct positions.
- 6. When hauling the tractor, connect the chassis and rear hitch to the transporting vehicle. Never connect from control levers, rods, or like items that could be damaged.
- 7. Operate the equipment only when discharge chute is in place or the complete grass catcher with collector boot and tube is in place.
- 8. As the vac basket fills with material, weight is removed from the front wheels. Limit the amount collected or add front weight to prevent loss of steering control.

1.2 Operation:

- 1. Wear foot and eye protection. Do not wear loose clothing.
- Do not use the equipment in the dark without adequate lighting.
- Keep the grass catcher in good condition. Maintain it as directed in this manual.
- 4. Replace all parts that become damaged or lost.
- 5. USE ONLY GRAVELY ACCESSORIES AND ATTACHMENT OR ATTACH-MENTS GRAVELY HAS APPROVED FOR USE WITH THIS TRACTOR.
- 6. Do not overspeed the engine. Do not override the governor.
- 7. Keep away from moving parts.
- 8. Keep people and animals away from the operating area.
- Do not let people other than the operator ride on the tractor.
- 10. Use a slow speed and engage the direction control lever slowly when operating on slopes.
- 11. Look for and keep away from hazards.
- 12. Shut engine off, move the PTO Control to "OFF", and remove ignition key before unclogging chute or removing grass catcher.
- 13. Look behind when operating in reverse.
- 14. After hitting an object with the equipment, stop the engine and check for damage. Repair any damage before continuing operation.
- 15. Operate the tractor only from the seat.
- 16. Travel up and down, not across slopes.
- 17. Never permit children to operate the tractor.
- 18. Before leaving the tractor, move the PTO Control to "OFF", lower mower, lock the brake, and remove the ignition key.

- 19. If there is a sudden change in the sound or vibration of the equipment, stop the engine and check for damage.

 Repair any damage or failure before continuing operation.
- 20. Never run the engine indoors except to move it outside. Exhaust fumes are dangerous.
- 21. Go slow on slick surfaces.
- 22. Follow traffic laws when operating on or near a road.
- 23. Before making adjustments or servicing, move the PTO to "OFF", turn the ignition switch to "OFF", and wait until all moving parts completely stop.
 - 24. Check the mounting hardware for the blade frequently.
 - 25. Keep the PTO control in the "OFF" position when transporting.

Look for and swep away from bazards

Operating Instructions

2.1 General:

- 1. When starting to cut grass with the vac in place, start at a slower than normal ground speed but with throttle set for high engine speed. Use the Gear Selector Lever to control speed. Select the gear for the best cutting and vac action. The heavier and wetter the grass, the slower the ground speed.
- With lush, extra heavy or wet grass, it may be necessary to make two passes. First cut at maximum cutting height from ground surface, then recut at the lower setting. When the liners are full, they may be tied up while in the basket, then lifted from the baskets for disposal. It may be easier to remove the liners from the baskets by laying the basket on its side and removing the liner.
- 3. If the hose plugs, momentarily stop ground travel and allow it to clear. IF THE HOSE DOES NOT CLEAR, PUT THE PTO IN THE "OFF" POSITION AND STOP THE TRACTOR ENGINE BEFORE ATTEMPTING TO CLEAR THE HOSE.
 - 4. Successful operation results from the thoughtful management of several variables:
 - a. Catcher will work best in dry grass. Between 10 a.m. and 6 p.m. would be an ideal time, after dampness has left in the morning but before evening dew.
- b. Use fast throttle setting on the tractor at all times, since this gives better air flow in the basket or cart.
- c. Try different travel speeds. Generally, third to fifth speeds are best.

2.2 ACAUTION:

- 1. Be sure the boot, hoses, and blower drive are properly assembled and secured prior to operating the vac and mower.
 - 2. Always move the PTO to "OFF", turn the ignition switch to "OFF" and wait until all parts have stopped moving before unplugging the hoses.
 - To maintain steering control, mount wheel weights on the front wheels.

Service Instructions

- 3.1 When the Vac Stops Collecting, Check the Following:
- 1. Be sure the mower has a sharp Gravely blade on it.
- 2. Low tip speed on blade--check engine RPM and increase to a maximum of 3300 RPM, decrease ground speed.
- 3. High ground speed on tractor--shift to lower gear.
- 4. Grass conditions--grass must be dry.

3.2 Vac Removal:

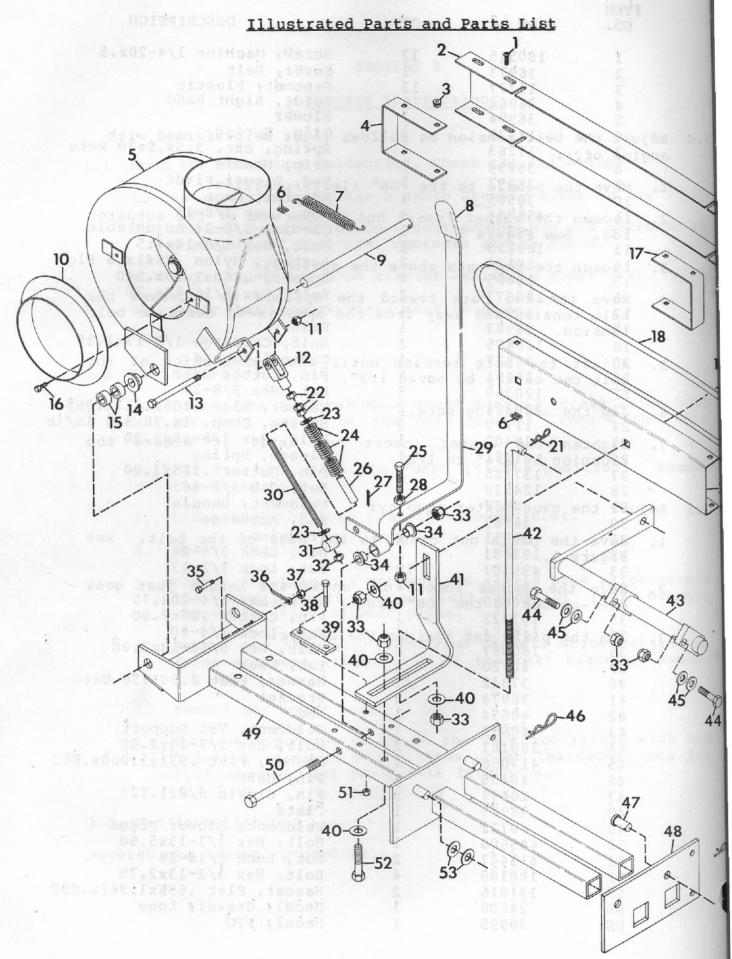
- 1. Loosen the four pan head cross machine screws which hold the belt cover to the belt guide. Remove the belt cover.
- 2. Put the handle in the "OFF" (right) position. Remove
 - 3. Disconnect the hose from the blower inlet.
- Remove the rod.
- 5. Remove the hair pin cotters and clevis pins which retain the tube support plate (left side of rear hitch).

 Remove the tube support plate.
 - 6. Remove the hair pin cotter and washers which retain the frame weldment (right side of the rear hitch). Remove the vac.
 - 7. Remove the mower boot.
- 8. Put the discharge chute on the deck and retain with two 3/8-16xl carriage bolts (from under the deck), two 3/8 flat washers, and two 3/8-16 lock nuts.

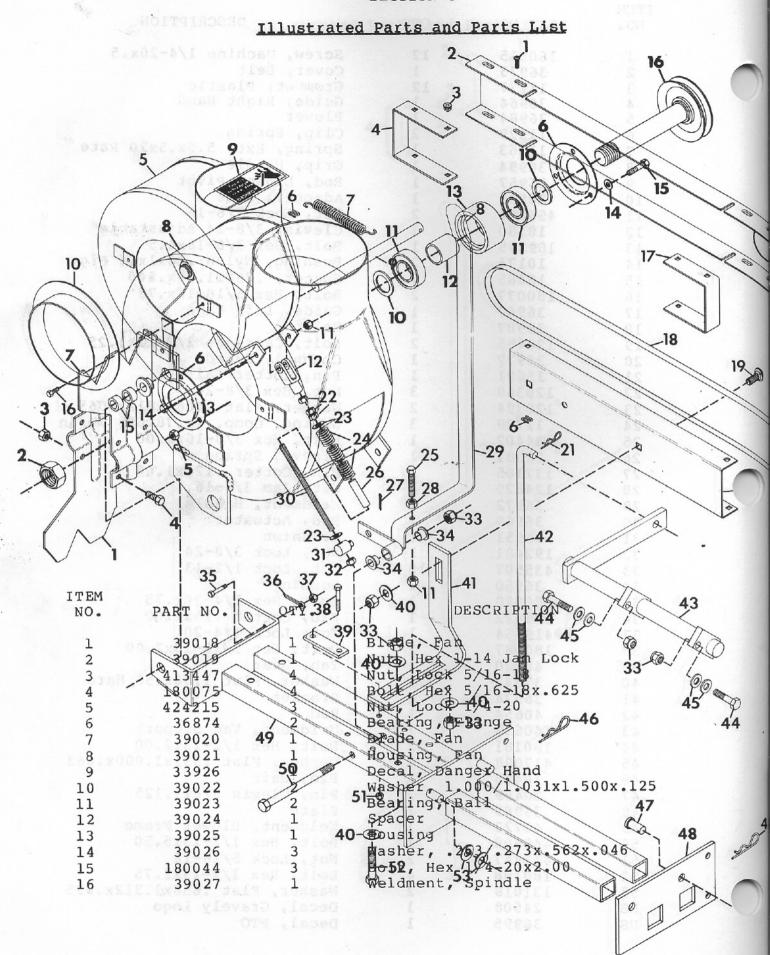
3.3 Vac Installation: associated with pulgray should

Reverse the removal procedure.

	1	TEM	DADE NO	OMV	DESCRIPTION
		NO.	PART NO.	QTY.	DESCRIPTION
		1	160515	12	Screw, Machine 1/4-20x.5
		2	36973	1	Cover, Belt
		3	11777	12	Grommet, Plastic
		4	36964	1	Guide, Right Hand
		5	36984	1	Blower
3.4	Adj	us& the	bell1229sion	as #ollow	vs Chipt Springformed with
		ine off)		1	Spring, Ext. 5.5x.5x20 Rate
		8	36994	1	Grip, Handle
	1.	Move th	ne h 36952 to 38585	the PON" ((leRed.pblowernPivot Adapter, Hose
	2.	Lbosen	the5606her i	nser4 nut	or Nuthe Levek 3/8 the actuator
			See 18389e 5.		Clevis, 3/8-24 Adjustable
		13	189295	1	Bolt, Hex 3/8-16x4.5
	3.	Losen 15	thelew74nuts	abo∳e the	Spacer, .760x1.00x.540
	4.			tow2rd th	he Boditinglex to librare set the
	-	belt to	ensi36967d aw	av fkom ti	he Capicings Left de de de belt
		18nsion		1	Belt
		19	126485	2	Bolt, Carriage 1/2-13x1.25
	5.	20 just	the36927t te	ension unt	ilChapenedid Guateion of the
				moved 1/2"	Pin, Cotter Hair
		22	120369	3	Nut, Hex 3/8-24
	6.		ad30384ng n		Washer, Flat .406x.812x.065
		24	11779	3	Spring, Comp. 1x.78x338 lb/in
	7.		the 40 asher		nutoltintMex 3/8-1622r90 the
			n b213,84" to		Sleeve, Spring
		27	137185 124829	27 1 28	Pin, Cotter .125x1.00 Nut, Jam 3/8-16
3.5	Adi		ove3607Ater		Weldment, Handle
3.3	Adj	30	36969	stopiny.	Rod, Actuator
	1.			clock to	thermendoof the bolt. See
	1.		5.192481	1	Nut, Lock 3/8-24
		33	435507	10	Mut, Lock 1/2-13
	2.	Move t	he was the in	sert2nut	untBushing handle just goes
		35er-ce	ent&£0020the	"ON" 1(left	bodttidex 1/4-20x.75
		36	103422	1 1	Pin, Cotter .25x2.00
	3.				halidle Lock 1/4-20
		38	180087	2	Bolt, Hex 5/16-18x2.00
		39	40720	1	Tab, Wear
		40	37842	11.	Washer, Flat 1.38x.56 Hard
		41	36974	2	Bracket Rod
		42	40654	1	Weldment, Vac Support
		44	180181	2	Bolt, Hex 1/2-13x2.00
		45	417098	4	Washer, Flat .531x1.000x.063
		46	10405	4	Pin, Hair
		47	20499	2	Pin, Clevis 5/8x1.125
		48	36989	1.	Plate
	A	49	40722	1	Weldment, Blower Frame
		50	445608	1	Bolt, Hex 1/2-13x5.50
		51	413447	2	Nut, Lock 5/16-18
1		52	180188	4	Bolt, Hex 1/2-13x2.75
1		53	131016	2	Washer, Flat .656x1.312x.095
		NS	24608	1	Decal, Gravely Logo
		NS	36995	1	Decal, PTO



PART NO.	OTY.	DESCRIPTION
4		
		Screw, Machine 1/4-20x.5
		Cover, Belt
		Grommet, Plastic
		Guide, Right Hand
		Blower
		Clip, Spring
	ine Delion	Spring, Ext. 5.5x.5x20 Rate
	1	Grip, Handle
		Rod, Blower Pivot
	1	Adapter, Hose
		Nut, Lock 3/8-16
		Clevis, 3/8-24 Adjustable
		Bolt, Hex 3/8-16x4.5
		Bushing, Nylon .76x1x.6 Flg.
	4	Spacer, .760x1.00x.540
180077		Bolt, Hex 5/16-18x.75
36967		Guide, Left Hand
36987	1	Belt
126485	2	Bolt, Carriage 1/2-13x1.25
36977	1	Channel, Guard
15691	1	Pin, Cotter Hair
120369	3	Nut, Hex 3/8-24
120394	2	Washer, Flat .406x.812x.065
11779	3	Spring, Comp. lx.78x338 lb/in
34402	. 1	Bolt, Hex 3/8-16x2.00
21381		Sleeve, Spring
		Pin, Cotter .125x1.00
		Nut, Jam 3/8-16
		Weldment, Handle
		Rod, Actuator
		Trunnion
		Nut, Lock 3/8-24
		Nut, Lock 1/2-13
		Bushing
		Bolt, Hex 1/4-20x.75
	1	Pin, Cotter .25x2.00
		Nut, Lock 1/4-20
		Bolt, Hex 5/16-18x2.00
	i i	Tab, Wear
		Washer, Flat 1.38x.56 Hard
		Bracket
		Rod
		Weldment, Vac Support
	2	Bolt, Hex 1/2-13x2.00
		Washer, Flat .531x1.000x.063
		Pin, Hair
		Pin, Clevis 5/8x1.125
		Plate
	po hance-	Weldment, Blower Frame
		Bolt, Hex 1/2-13x5.50
		Nut, Lock 5/16-18
		Bolt, Hex 1/2-13x2.75
		Washer, Flat .656x1.312x.095
		Decal, Gravely Logo
36995	1	Decal, PTO
	160515 36973 11777 36964 36984 11329 11263 36994 36957 38585 456004 18380 189295 10174 18485 180077 36967 36987 126485 36977 15691 120369 120394 11779	36973 1 11777 12 36964 1 36984 1 11329 2 11263 1 36994 1 36957 1 38585 1 456004 2 18380 1 189295 1 10174 2 18485 4 180077 2 36967 1 36987 1 126485 2 36977 1 15691 1 120369 3 120394 2 11779 3 34402 1 21381 1 137185 1 124829 1 36972 1 36960 2 180020 1 103422 1 419454 1 180087 2 40720 1 37842 11 36989<

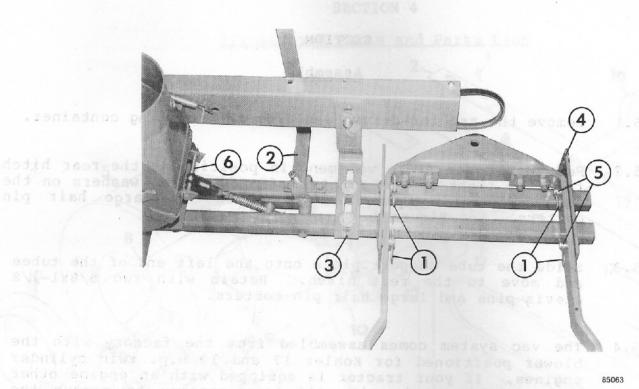


Assembly

- 5.1 Remove the tractor-driven vac from the shipping container.
- 5.2 Put the blower frame weldment in position in the rear hitch from the right side. Put two .656 I.D. flat washers on the forward mounting pin. Retain with two large hair pin cotters. See Figure 1.
- 5.3 Slide the tube support plate onto the left end of the tubes and move to the rear hitch. Retain with two 5/8x1-1/8 clevis pins and large hair pin cotters.
- 5.4 The vac system comes assembled from the factory with the blower positioned for Kohler 17 and 19 h.p. twin cylinder engines. If your tractor is equipped with an engine other than a Kohler twin, it will be necessary to remove the blower from the frame and reassemble it with the spacers positioned as follows:
 - Briggs and Stratton four spacers to the rear of the blower.
 - Kohler 17 and 19 h.p. one spacer to the rear and three spacers in the front of the blower.
 - Kohler 12 h.p. two spacers to the rear and two spacers to the front of the blower.

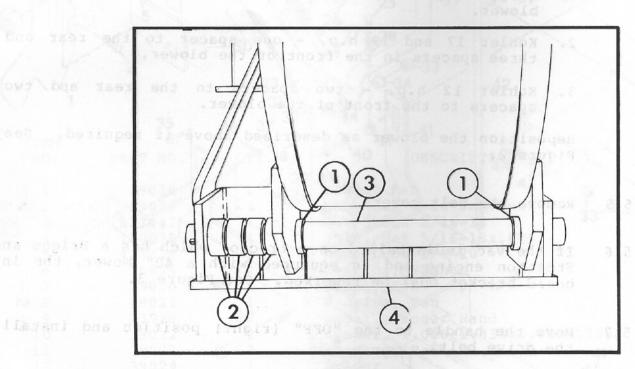
Reposition the blower as described above if required. See Figure 2.

- 5.5 Remove the belt cover.
- 5.6 If the vac is installed on a tractor which has a Briggs and Stratton engine and is equipped with a 40" mower, the inboard bracket must be reworked. See Figure 3.
- 5.7 Move the handle to the "OFF" (right) position and install the drive belt.



1 - Large Hair Pin Cotter 4 - Tube Support Plate
2 - Handle Assembly 5 - 5/8xl-1/8 Clevis Pin
3 - Bracket 6 - 3/8-16x4.50 Bolt

FIGURE 1

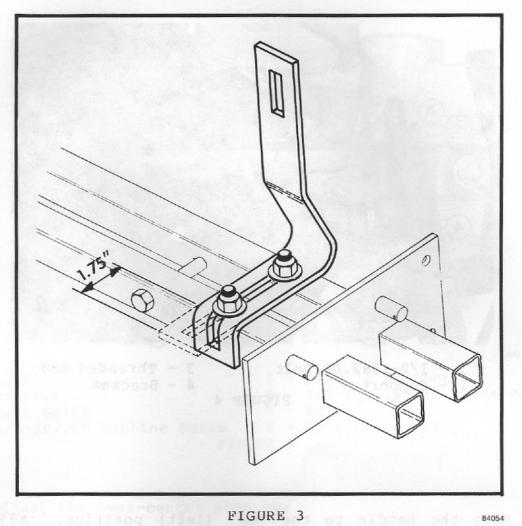


1 - Bushings

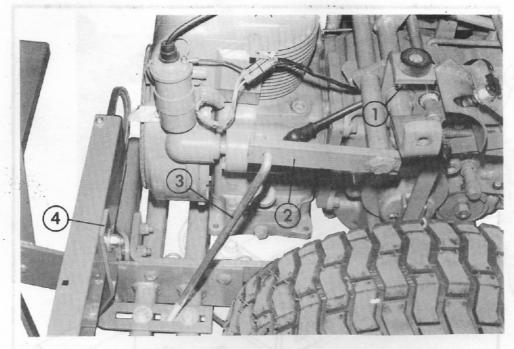
2 - Spacers

3 - Rod

4 - Blower Support FIGURE 2



- Remove the top 1/2" bolt which mounts the rear hitch bracket (item 18, page 18, 8000-G Series IPL) to the transmission. See Figure 4.
- Put the vac support weldment on the tractor and secure with two 1/2-13x2 bolts, four flat washers, and two washer insert nuts.
- 5.10 Put the threaded rod through the slot in the left bracket and hook the top end in the support. Secure with a small hair pin cotter. On the 17 h.p. and 19 h.p. tractors, it may be necessary to cut 1/2" off the muffler outlet to allow clearance for the rod.
- Install a flat washer and washer insert nut on the lower end of the rod. Tighten until the frame is not loose in the hitch. Do not overtighten as it will cause difficult operation of the direction control lever.



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1 - 1/2-13x2.00 Bolt

2 - Support

3 - Threaded Rod

4 - Bracket

5.12 Move the handle to the "ON" (left) position. Adjust the guide channel fore and aft so that the belt is midway between the plastic grommet and the wall of the guide channel. Tighten bottom four bolts. See Figure 5.

FIGURE 4

5.13 With the handle in the "ON" position (left position--belt tight), adjust the guide channel up and down until the belt is midway in the guide channel. Tighten two carriage bolts.

5.14 Adjust the belt tension as follows:

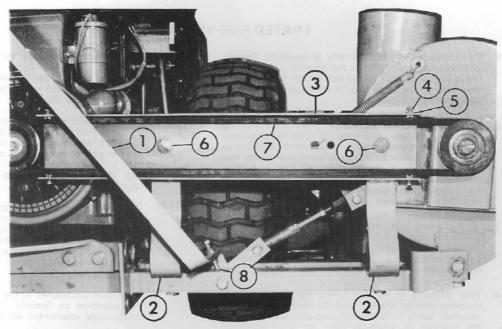
1. Move the handle to the "ON" (left) position.

the hitch. Do not overlighten as it will cause difficult

 Compress the springs on the actuator rod with the two nuts until the first nut makes light contact with the spring sleeve.

operation of the direction control lever.

3. Jam the adjusting nuts.



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1 - Handle

2 - Bracket

3 - Belt Guide

4 - 1/4-20x.50 Machine Screw

5 - Plastic Grommet

6 - 1/2-13x1.25 Carriage Bolts

7 - Belt

8 - Over-Center Stop

FIGURE 5

5.15 Adjust the over-center stop by:

- 1. Move the plain nut close to the head of the bolt. See Figure 5.
- Move the washer insert nut until the handle just goes over-center to the "ON" (left) position.
- 3. Jam the plain nut against the handle.
- 5.16 Put the handle in the "ON" (left) position.
- 5.17 Put the belt cover in position on the guide channel. Tighten the four mounting screws. Move the right end guide until it is about 1/8" from the belt and tighten the mounting screws. Move the left guide until it is about 1/2" from the belt and tighten the mounting screws.
 - 5.18 Run in for 10 minutes and check belt declutching. Readjust if necessary to stop blower.

LIMITED FIVE-YEAR WARRANTY

- This Limited Five-Year Warranty is issued by Gravely International, Inc., only to the original purchaser. If Gravely equipment is leased by Gravely, this Warranty shall extend also to the original lessee as if such lessee were the original purchaser.
- Gravely warrants that all new equipment manufactured by Gravely ("Gravely Products") shall be free of defects in material and workmanship for the term described in paragraph 4, below. Except as hereinafter provided, this Warranty does not cover any engine, tires or battery forming a part of the Gravely Product. Engine and tires are covered by and subject to separate warranties of the manufacturers thereof.
- In the event that any Gravely Product warranted hereunder shall be defective or fail to conform with this Warranty, Gravely shall, subject to the provisions hereof, pay for, or provide labor and materials for, the repair or replacement of such defective Gravely Product.
- 4. This Warranty is for five years (60 months) from purchase date for Gravely Products used exclusively for personal, family or household purposes, and two years (24 months) for products used for other purposes (commercial use). Repair of Gravely Products after the second year (24 months from date of purchase) shall be subject to a \$50.00 deductible for each repair. (After two years, Gravely agrees to repair or replace of Sective Gravely Products used exclusively for personal, family or household purposes only to the extent that the cost of such repair or replacement exceeds \$50.00.)

Batteries are warranted by Gravely for a period of twelve (12) months only. If a battery shall fail within twelve (12) months of purchase, the replacement cost thereof shall be prorated over a twelve-month term based upon the number of months since purchase.

- To obtain Warranty Service on a Gravely Product (including any battery or other component not manufactured by Gravely), use this procedure:
 - Notify the Gravely dealer from whom you purchased the equipment.
 - b. If you have moved and it is not convenient to notify the selling dealer, notify the nearest Gravely dealer. You should supply this dealer with a copy of the bill of sale as proof of the date of purchase.
 - Make arrangements to have the equipment delivered to the dealer (refer to paragraph 6 a., below).
 - d. If you have any questions concerning the Gravely Limited Warranty, they should be referred to:

Gravely International, Inc. One Gravely Lane Clemmons, NC 27012 Attn: Customer Service Department

 Warranty service on Gravely Products must be performed by an authorized Gravely dealer.

- 6. This Warranty does not cover the following:
 - Transportation to the Gravely dealership. (If the Gravely dealer provides transportation, he will charge for such service.)
 - Normal maintenance services and normal replacement of items such as spark plugs, belts, oil, oil filters, air filters, and mower, plow or cultivator blades, gauge wheels, skids and other wear items.
 - Any Gravely Product which has been altered or modified in any way.
 - d. Any repair or replacement occasioned by customer neglect or lack of proper maintenance. (The purchaser is responsible for making sure that Gravely Products are operated and serviced as directed in the applicable manual or service instruction. Incorrect use or maintenance will void this Warranty.)
 - e. Any repair occasioned by the use of any attachment not approved by Gravely. (The use of any such unapproved attachment will void this Warranty.)
- 7. GRAVELY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES. OR WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTIES ARE LIMITED IN DURATION TO THE TERMS SET OUT IN PARAGRAPH 4, ABOVE. GRAVELY SHALL HAVE NO LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE BREACH OF ANY WARRANTY. INCLUDING, BUT NOT LIMITED TO, LIABILITY FOR INCONVENIENCE, RENTAL OR PURCHASE OF REPLACEMENT EQUIPMENT, OR FOR LOSS OF PROFITS OR OTHER COMMERCIAL LOSS.
- 8. Some states do not allow limitations on how long an implied warranty lasts, so the above statement may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.
- 10. A Gravely product registration card is supplied with each Gravely Product. Please complete the card and return it to Gravely at the address listed on the card. The equipment registration card will be used by Gravely for:
 - a. Recording date of purchase.
 - Notification of owners in compliance with the Consumer Product Safety Act, should any notification be necessary.

The return of such card is necessary for your warranty to be effective.

 This Warranty is not subject to change or modification by anyone, including Gravely dealers and no Gravely dealer is authorized to make any representations or promises on Gravely's behalf.

