

GIANT-VAC MFG. INCORPORATED
SOUTH WINDHAM, CT. 06266
203-423-7741

OPERATING AND ASSEMBLY INSTRUCTIONS
FOR
MODEL 16FM P.T.O. THREE-WAY BLOWER

Inspect your unit for any damage that might have occurred in shipping. If any is found, save the packing container and IMMEDIATELY notify the transport carrier who delivered your machine, as he is responsible for the damage and is the only one to make any adjustments. Before leaving our plant, all components were completely inspected. All manufacturing dimensions are held to close tolerances, and thus, you will have little difficulty in assembly of your Model 16FM Blower if you follow these steps.

CAUTION
ROTATING FAN

BEFORE MAKING ANY ADJUSTMENTS OR REPAIRS,
STOP ENGINE. WHILE IN OPERATION KEEP
ALL PARTS OF BODY AWAY FROM INTAKE AND
EXHAUST SECTIONS.

READ THE OPERATION SECTION OF THIS MANUAL CAREFULLY BEFORE
OPERATING THE TRACTOR OR THE MODEL 16FM P.T.O. BLOWER.

SAFETY SUGGESTIONS ARE AS FOLLOWS:

SAFETY AND OPERATING INSTRUCTIONS
FOR GIANT-VAC MODEL 16FM P.T.O. BLOWER

TRAINING:

1. Regard your 16FM Blower as a piece of power equipment and teach this regard to all who operate this unit.
2. Never allow children or young teen-agers to operate the tractor or 16FM Leaf Blower.
3. Be sure you know how to stop the tractor's engine at a **MOMENT'S NOTICE.**
4. Instruct children to keep away from the areas of operation at all times.

PREPARATION:

1. Before starting operation, clear the entire work area of all debris that could catch on or be thrown by the 16FM Leaf Blower.
2. Unless there is very good artificial light, use only during the daylight hours.

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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3. Fill the tractor fuel tank outdoors. Avoid spilling fuel and do not fill the tank while the engine is running or while you are smoking.

OPERATION:

1. Do not operate with any guards or component parts removed from unit.
2. Before making any adjustments or repairs, stop engine and remove the P.T.O. Drive Shaft or Hydraulic Motor.
3. While in operation, keep all parts of body away from intake and exhaust sections.
4. When operating machine, keep people and pets a safe distance away.
5. Follow the tractor manufacturer's recommendations for safe operation.
6. Use caution in selecting your cleaning pattern. Always avoid steep hills, especially if the turf is wet. **CAUTION:** Do not travel straight down slopes exceeding 14 degrees. When climbing a steep slope and the tires begin to slip, the grade is too steep for safe operation. Angle the tractor to a less steep slope until the tires stop slipping and traction is regained.
7. Model 16FM P.T.O. 3-way Blower is designed to be used in conjunction with an out-front type mower tractor - with the mower deck OFF the tractor. The tractor must have a minimum 23HP. NEVER RUN THE TRACTOR'S P.T.O. DRIVE OVER TRACTOR MANUFACTURER'S RECOMMENDATIONS FOR P.T.O. RPMS.
8. Never allow another person to ride in the tractor or Model 16FM unit.
9. Model 16FM Leaf Blower is designed so the unit blows equally well in either a left or right hand direction, as well as, forward. In operation, the air shall be discharged directly from one side. By flipping the cord, which is controlled by the operator while seated on the tractor, the air passes through the ventury and then passes to the other side. The side discharge chutes have an adjustable deflector for directing the air for varying conditions.
10. Never engage the tractor P.T.O. Drive until you are at the area you plan to clean. **CAUTION:** Before you engage the P.T.O. Drive lever, set the tractor throttle to the slow position. Next, engage the P.T.O. lever, then slowly increase the engine throttle speed. Be certain the P.T.O. lever is disengaged before stopping the tractor.

MAINTENANCE:

1. Keep the unit free from accumulations of grass, leaves or excessive grease. An accumulation of these combustible materials may result in a FIRE.
2. Grease the P.T.O. Drive Shaft - caster wheels - and shaft bearings every 50 hours.
3. ON 16FM BLOWERS that have a secondary Drive Shaft, the belt tension is initially set at the factory. However, they will wear in and adjust. We recommend that you check the belt tension after one hour and then after the next 10 hours of operation. To do this, use a belt tensioning gauge. This should be placed in the center of the span and should read 12 pounds pressure with 1/4" deflection.
NOTE: Only one belt should be checked at a time. Also check to see that the drive pulleys are in line.

ASSEMBLING:

1. Remove unit and parts from the cardboard box.
2. Secure the front caster wheels using four 3/8" x 1" bolts with 3/8" lockwashers, flatwashers and nuts.
3. Install rear hitch using four 1/2" bolts and 1/2" lockwashers.
4. Remove mower deck from tractor.
5. Mount the Model 16FM Blower onto the FRONT of the tractor.
6. Attach the P.T.O. Drive Shaft or Hydraulic P.T.O. Motor.
7. Attach the lift chain from lift on tractor to the Blower Rear frame.
8. IMPORTANT: Be certain the Model 16FM Blower is properly mounted to the tractor. Raise and lower the unit a few times before you engage the P.T.O. Drive lever.
9. Install the control cord on the tractor.

WARRANTY

GIANT-VAC MFG. COMPANY INCORPORATED, here-in-after called Giant-Vac, warrants each new Giant-Vac to the original retail purchaser of new Giant-Vac equipment to be free from manufacturing defects in normal service for a period of 90 days, unless it is used for rental purposes which limits the warranty to 30 days. This warranty does not apply to engines, tires or other parts that are manufactured and warranted by the manufacturer. Items such as bags, grass catchers, hoses, and blades are not warranted, as these are considered expendable items. This warranty does not include equipment failures due to normal wear.

Any obligation under this warranty is expressly limited to the replacement or repair at an authorized servicing Giant-Vac dealer, or at a point designated by us, of such parts or parts as such appear to us to have been defective. All defective parts have to be returned freight prepaid before credit is issued.

We shall not be liable for transportation charges in connection with the replacement or repair of defective parts.

This warranty does not apply to a Giant-Vac upon which repairs or alterations have been made by others except with our prior written approval.

We shall not be liable for consequential damages or contingent liabilities nor for the fitness of any Giant-Vac for any particular purpose.

We make no other express, implied or statutory warranty, nor is anyone authorized to make any in our behalf.

PARTS LIST NO. 5776

MODEL 16FM FOR JACOBSON

REF. NO.	PART NO.	DESCRIPTION	FOR JACOBSON MODEL	
			T436G T422D	T320G
1	10123	Blower housing & chute	1	
1	10123	Blower housing & chute		1
2	21546	Impeller	1	
2	21546	Impeller		1
3	31533	Impeller Bolt, Key & Lockwasher	1	1
4	20190	Intake baffle	1	1
5	31534	Bolt & Lockwasher 3/8" x 1 1/2"	4	4
6	33136	Wheel 410 x 350 heavy duty bearing	2	2
7	33137	Wheel bearing only	4	4
8	33138	Axle spacer	4	4
9	33139	Axle	2	2
10	33140	Axle & locknut	2	2
11	33141	Caster horn	2	2
11-A	31305	Lynch pin 1/4"	2	2
12	33142	Caster horn arm	2	2
13	31437	Grease fitting	2	2
14	31306	Flange bushing 1"	4	4
15	31535	Bolt, nut, lockwasher 3/8" x 1"	8	8
16	38019	Hitch frame	1	
16	38020	Hitch frame		1
17	31536	Bolt - lockwasher 1/2" x 1 1/4"	4	4
18	37102	Pump mount bracket	1	
19	37103	Drive shaft guard		1
20	36178	Impeller shaft	1	
20	36179	Impeller shaft		1
21	36180	Impeller shaft bearing	2	2
22	31546	Bolt, nut, lockwasher 3/8" x 1 1/2"	8	8
23	31497	Coupling - pump half	1	
24	31498	Insert spider	1	
25	31496	Coupling impeller shaft half	1	
26	27205	Control rope	1	1
27	24596	Right Hand air deflector	1	1
28	24597	Left Hand air deflector	1	1
29	31538	Bolt, lockwasher 3/8" x 1"	4	4
30	31422	Spring	2	2
31	24598	Right side inner deflector plate	1	1
32	31537	Bolt, lockwasher 3/8" x 1"	4	4
33	27201	Right side inner deflector plate rod	1	1
34	27203	Spring holder	2	2
35	27204	Rod top arm	2	2
36	24599	Left side inner deflector plate	1	1
37	27202	left side inner deflector plate rod	1	1

PARTS LIST NO. 5777

MODEL 16FM FOR BOBCAT

REF. NO.	PART NO.	DESCRIPTION	FOR BOBCAT MODEL	
			T24N	XT4005 XT4015B XT4010D
1	10123	Blower housing & chute	1	
1	10123	Blower housing & chute		1
2	21546	Impeller	1	1
3	31533	Impeller bolt, key & lockwasher	1	1
4	20190	Intake baffle	1	1
5	31534	Bolt & lockwasher 3/8"	4	4
6	33136	Wheel 410 x 350 heavy duty bearing	4	4
7	33137	Wheel bearing only	4	4
8	33138	Axle spacer	4	4
9	33139	Axle	2	2
10	33140	Lock nut	2	2
11	33141	Caster horn	2	2
11-A	31305	Lynch pin 1/4"	2	2
12	33142	Caster horn arm	2	2
13	31437	Grease fitting	2	2
14	31306	Flange bushing 1"	4	4
15	31535	Bolt, nut, lockwasher 3/8" x 1"	8	8
16	38021	Hitch frame	1	
16	38022	Hitch frame		1
17	31536	Bolt, lockwasher 1/2" x 1 1/4"	4	4
19	37105	Drive shaft guard	1	1
20	36182	Impeller shaft	1	
20	36183	Impeller shaft		1
21	36180	Impeller shaft bearing	2	2
22	31546	Bolt, nut, lockwasher 3/8" x 1 1/2"	8	8
26	27205	Control rope	1	1
27	24596	Air deflector right hand	1	1
28	24597	Air deflector left hand	1	1
29	31538	Bolt, locknut 3/8" x 1"	4	4
30	31422	Spring	2	2
31	24598	Right side inner deflector plate	1	1
32	31537	Bolt, lockwasher 3/8" x 1"	4	4
33	27201	Right side inner deflector rod	1	1
34	27203	Spring holder	2	2
35	27204	Rod top arm	2	2
36	24599	Left side inner deflector plate	1	1
37	27202	Left side inner deflector rod	1	1
38	36184	Input shaft bearing	2	2
39	36185	Input shaft	1	1
40	36186	Belt set (2)	1	1
41	36187	Pulley impeller shaft	1	1
42	36188	Pulley input shaft	1	1

PARTS LIST NO. 5778

MODEL 16FM FOR CUSHMAN

REF. NO.	PART NO.	DESCRIPTION	FOR CUSHMAN MODEL		
			804	806 807	808 809
1	10123	Blower housing & chute	1		
1	10124	Blower housing & chute		1	
1	10124	Blower housing & chute			1
2	21546	Impeller	1		
2	21546	Impeller		1	1
3	31533	Impeller bolt, key & lockwasher	1	1	1
4	20190	Intake baffle	1	1	1
5	31534	Bolt & lockwasher 3/8"	4	4	4
6	33136	Wheel 410 x 350 heavy duty bearing	2	2	2
7	33137	Wheel bearing only	4	4	4
8	33138	Axle spacer	4	4	4
9	33139	Axle	2	2	2
10	33140	Locknut - axle	2	2	2
11	33141	Caster horn	2	2	2
11-A	31305	Lynch pin 1/4"	2	2	2
12	33142	Caster horn arm	2	2	2
13	31437	Grease fitting	2	2	2
14	31306	Flange bushing 1"	4	4	4
15	31535	Bolt, nut & lockwasher 3/8" x 1"	8	8	8
16	38023	Hitch frame	1		
16	38024	Hitch frame		1	1
17	31536	Bolt, lockwasher 1/2" x 1 1/4"	4	4	4
19	37104	Drive shaft guard	1	1	1
20	36181	Impeller shaft	1		
20	36181	Impeller shaft		1	1
21	36180	Impeller shaft bearing	2	2	2
22	31546	Bolt, nut & lockwasher 3/8" x 1 1/2"	8	8	8
26	27205	Control rope	1	1	1
27	24596	Right hand air deflector	1		
27	24596	Left hand air deflector		1	1
28	24597	Left hand air deflector	1		
28	24597	Right hand air deflector		1	1
29	31538	Bolt & lockwasher 3/8" x 1"	4	4	4
30	31422	Spring	2	2	2
31	24598	Right side inner deflector plate	1		
31	24600	Right side inner deflector plate		1	1
32	31537	Bolt & lockwasher 3/8" x 1"	4	4	4
33	27201	Right side deflector plate rod	1		
33	27206	Right side deflector plate rod		1	1
34	27203	Spring holder	2	2	2
35	27204	Rod top arm	2	2	2
36	24599	Left side inner deflector plate	1		
36	24601	Left side inner deflector plate		1	1
37	27202	Left side inner deflector plate rod	1		
37	27207	Left side inner deflector plate rod		1	1

