

# MODEL:

PARTS MANUA

75-70644B TURBINE BLOWER PB200 (S/N 0300 and Above)



MAN 4176363 Rev. A 04-2018

# **CALIFORNIA PROPOSITION 65**

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

ADVERTENCIA: Cáncer y Dãno Reproductivo - www.65Warnings.ca.gov.

#### **IMPORTANT MESSAGE**

Thank you for purchasing this Schiller Grounds Care. Inc. product. You have purchased a world class product, one of the best designed and built anywhere.

This product comes with an Owner/Operator's Manual. The useful life and good service you receive from this product depends to a large extent on how well you read and understand this manual. Treat this product properly and adjust it as instructed, and it will give you many years of reliable service.

See a Schiller Grounds Care. Inc. dealer for any service or parts needed. Schiller Grounds Care. Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care. Inc. products. You can trust Schiller Grounds Care. Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care. Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this product only as directed in the manual, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

#### Schiller Grounds Care. Inc. One Bob Cat Lane Johnson Creek, WI 53038-0469

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# TURBINE BLOWER

#### DESCRIPTION

The PB200 Turbine Power Blower is designed to attach to the quick-hitch of Steiner power units. Noise pollution will not be a concern with this turbine power blower. Quiet but powerful, it quickly cleans walkways, parking lots, leaves, debris, and more.

#### Features:

- Nozzle rotation 360 degrees continuous
- Nozzle rotation by hydraulic motor
- Kickstand for easy hookup
- Axial flow turbine design
- Quiet operation
- Direct airflow to either side from operator's seat
- Quick-Hitch, Front-Mount
- Caster Wheel follows ground contours
- Steel bumper protects nozzle

#### SPECIFICATIONS

Overall Width	
Overall Height	
Overall Length	
Weight	
Weight on caster wheel	
Air flow	
Nind speed	
Wind speed (deflected to front)	
Sound level (while seated in operator's seat)	

# TURBINE BLOWER

#### NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care. Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care. Inc. Engineering Department. Any Schiller Grounds Care. Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture–including the addition of "after-market" accessories or component parts not specifically approved by Schiller Grounds Care. Inc.–will result in the Schiller Grounds Care. Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care. Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care. Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means: ATTENTION! BECOME ALERT!

Your safety and the safety of others is involved.

#### Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care. Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

## A DANGER

**DANGER** indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

## A WARNING

**WARNING** indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

# 

**CAUTION** indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

## CAUTION

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage

S SCHILLER GROUNDS CARE

Model

XXXXXXX

Serial Number

Schiller Grounds Care, Inc. One Bob Cat Lane Johnson Creek, WI 53038 **MODEL NUMBER:** This number appears on sales literature, technical manuals and price lists.

**SERIAL NUMBER:** This number appears only on your machine. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

#### **GENERAL SAFETY**

- Read and understand the owner's manual, before attempting to operate this machine.
- Operate all controls from the operator's seat, (if so equipped). **NO RIDERS.**
- Keep all shields in place and safety switches adjusted properly.
- Do not leave equipment unattended. STOP the engine and remove the key (if so equipped).
- Do not allow minors or the inexperienced to operate this machine.

- Never allow anyone to operate or service this machine while under the influence of alcohol or drugs.
- Keep people and pets a safe distance away from machines using power driven attachments. Injury could result from flying debris.
- Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands, and feet.
- Operate the machine only in daylight or in good artificial light.

#### **OPERATING SAFETY**

1. Do not attempt to work on unit or any attachments with the engine running!

## A WARNING

The tractor may coast when the engine stops. Set the parking brake.

- 2. Before leaving the tractor seat:
  - 1. Disengage PTO drive.
  - 2. Set PARKING brake.
  - 3. Stop Engine.

## **A**DANGER

DO NOT ATTEMPT TO CLEAN INLET OR OUTLET AREAS WITH BLOWER RUNNING.

## A DANGER

DO NOT OPERATE WITH PERSONS IN THE AREA. HIGH SPEED BLOWER MAY PROPEL OBJECTS CAUSING POSSIBLE INJURY OR DEATH.



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BEFORE OPERATING THIS MACHINE READ AND UNDERSTAND THE OPERATOR'S MANUAL. KEEP ALL SHIELDS IN PLACE AND FOLLOW ALL SAFETY RULES.

00-093



-Keep hands and feet away. -Stop engine and remove spark plug wire before servicing. -Do not operate without guards in place.



-Keep bystanders away. -Do not blow toward people or pets. -Do not blow toward items that may be damaged by flying debris. 4165975 Location: Main Frame

Location: Side of Main Frame

ATTACHING THE TURBINE POWER BLOWER	
• Open the quick hitch latches and drive the tractor into position, aligning the quick hitch. Be sure that both latches are fully engaged and locked.	<ul> <li>Remove the clip pin from the support stand. Rotate the stand to the highest setting and insert clip pin. This stand is used to dismount the blower and position it at the correct height to simplify attaching the next</li> </ul>
• Stop the engine! Do not attempt to install the drive belt with the engine running.	time.
• Put the belt over the drive pulley and engage or adjust the double idler assembly.	<ul> <li>A rear weight bar with 2 weights is required when this turbine power blower is attached to the Model 410 or 430 power unit.</li> </ul>
• Attach the hydraulic hoses to the quick- couplers. Route the hoses in a place where they will not be damaged. If the hydraulic lever movement seems backward, reverse the hoses at the quick-couplers.	NOTE: Always remove rear weights when front mounted attachment is removed!

# TURBINE BLOWER

#### OPERATING THE TURBINE POWER BLOWER

#### Controls

- The Front Lift lever controls the lift. Normal operation is to have the lever in the "FLOAT" position.
- The Auxiliary Hydraulic lever controls the position of the nozzle. It will rotate in a continuous 360 degree rotation.

## **A**CAUTION

Always wear eye protection when operating this blower.

#### **Operating Instructions**

- Rotate the nozzle for desired air flow direction.
- Observe the wind direction and work with the wind whenever possible. The blower works equally well when traveling forward or reverse. When clearing large areas it is advisable to use patterns which blow all the debris in the same direction.
- Adjust weight transfer to decrease weight on the front caster wheel.

## **A**CAUTION

USE CAUTION WHEN OPERATING NEAR PERSONS, PETS, AND LIGHTWEIGHT OBJECTS WHICH MAY TIP OR ROLL WITH THE HIGH VELOCITY OF THE BLOWER. NOTE THAT THE VELOCITY IS OF HURRICANE RATING.

FLYING DEBRIS CAN ALSO CAUSE DAMAGE TO PERSONS, AUTOS, WINDOWS, ETC. Operator Warnings!

#### Visual check

- Check for damaged or missing parts or fasteners each time the blower is operated. Repair or replace.
- Do not operate if the nozzle or drive have been modified in any way.

#### **Chemical applications**

• Use of the turbine blower to apply spray chemicals is not recommended.

#### Bystanders

• Warn all bystanders to keep a safe distance away while blower is in operation.

#### Machine stability

• A rear weight bar with 2 weights is required when this unit is mounted on the Model 410 and 430 power units.

#### Nozzle

 Use care that the nozzle does not bump into objects during operation. Do not operate with damaged nozzle.

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SERVICE SCHEDULE	ADJUSTMENTS
Daily:	Turbine drive belt:
<ul> <li>Check for any signs of loose bolts and tighten as needed.</li> </ul>	Remove the drive belt shield. Tighten the drive belt by loosening the front bearing mount bolts, move the drive shaft with the adjusting screw, and re-tighten
<ul> <li>Check inlet area and outlet nozzle for collection of foreign material and clean as needed.</li> </ul>	mount bolts. Replace the shield. Nozzle rotation belt:
<ul> <li><b>25 hour:</b></li> <li>In addition to daily service, grease the two bearings on the drive shaft, the caster swivel, and caster wheel.</li> </ul>	Remove the nozzle drive belt shield. Adjust the belt by loosening the hydraulic motor mounting bolts, and move the pump in the mounting slot. Replace the shield.
<b>NOTE:</b> The turbine has sealed bearings and does not require periodic lubrication.	

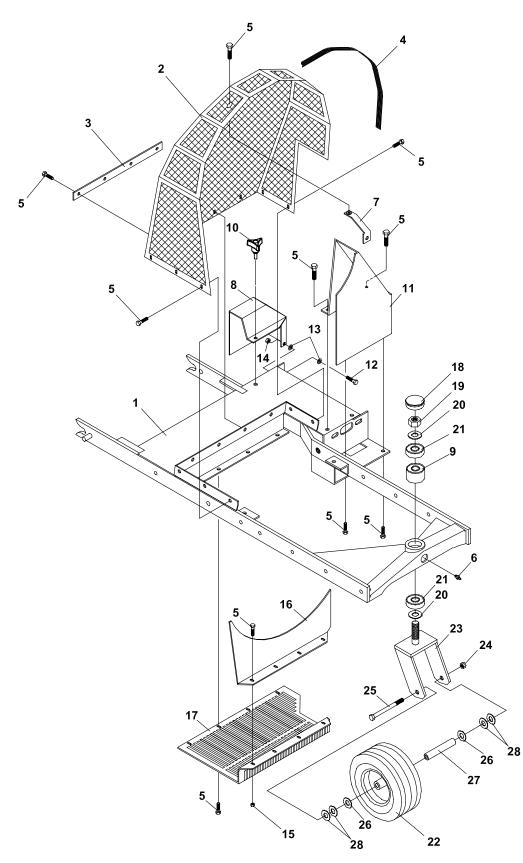


# PARTS SECTION

## MAIN FRAME

## **FIGURE 1**





## MAIN FRAME

# TURBINE BLOWER

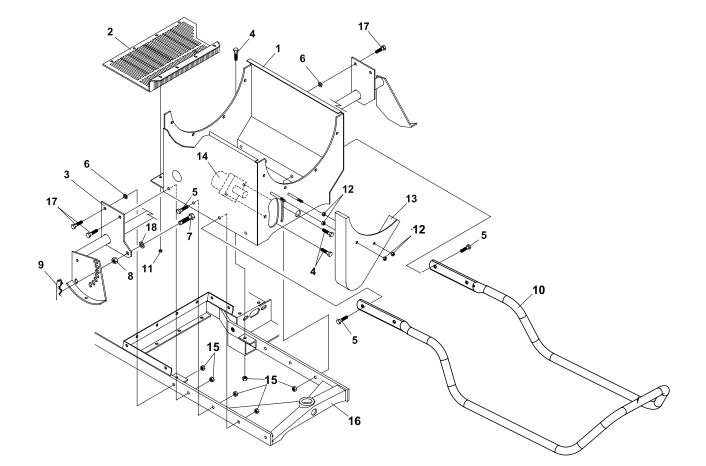
## FIGURE 1

TEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1 4	4165649	S-MAIN FRAME	1				
2 (	6110053.17	INTAKE SCREEN	1				
3 (	6110015.17	STRAP-RETAINING	1				
+ !	56-027	TRIM-4'	1				
5 (	64139-04	BOLT-WLF 1/4-20X3/4	22				
6 8	85010N	S/B GREASE FITTING	1				
7 (	6110047.17	BRACE INTAKE SCREEN	1				
3 (	64-611.7	SHIELD-DRIVE PULLEY	1				
) 4	4165469	SPACER76 X 1.25 X .188	1				
10 4	4170936	KNOB-3 PRONG 1/4-20	1				
11 (	6110058.17	GUARD-DRIVE BELT	1				
12 (	64123-54	BOLT, 5/16-18X3/4	1				
3 (	64163-04	25/64X5/8X16GA WASHER	2				
4 (	64229-02	LOCKNUT-NYLON 5/16-18	1				
15 (	64141-2	NUT-WLF 1/4-20	4				
6 (	6110010.17	GUARD-LOWER	1				
17 (	6110011.17	INTAKE SCREEN-LOWER	1				
8	53-060	HUB CAP	1				
99	99-AC12NF	NUT, 3/4	1				
20 (	64163-06	WSHR768/.756X1.25X14	2				
21 (	55-Z9504AB	BALL BEARING-3/4ID	2				
22 4	4164205	WHEEL-W/410-4 TIRE	1				
4	4164204-01	BEARING	1				
3 (	6110059.7	FRAME-CASTER WHEEL	1				
.4 (	64141-4	NUT-WLF 3/8-16	1				
.5 (	64123-130	BLT-HEX 3/8-16X5-1/2	1				
6 (	64163-16	WASHER-41/64 X 1-3/8 X 12	2				
27 (	6110046	AXLE	1				
28 (	64163-12	WSHR632X1X.25	4				

## **MOUNTING ASSEMBLY**

## **FIGURE 2**





## **MOUNTING ASSEMBLY**

# TURBINE BLOWER

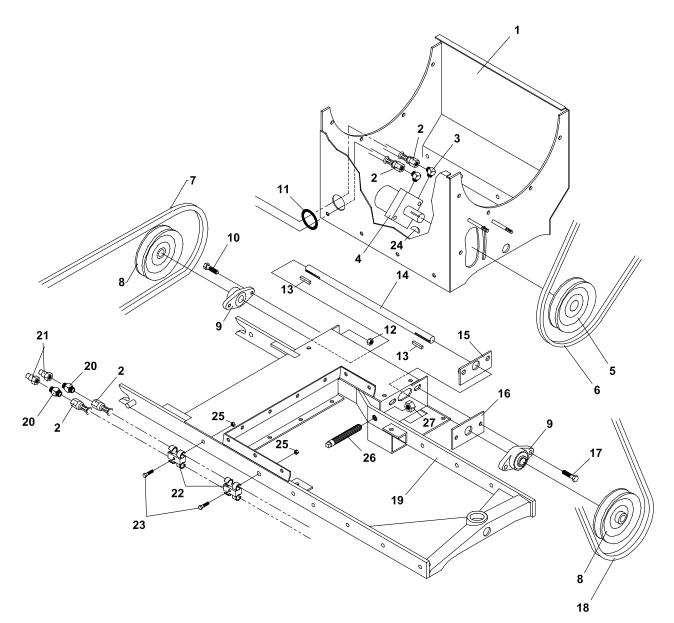
## FIGURE 2

ITEN	I PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	6110052.17	TURBINE MNTNG STAND	1				
2	6110011.17	INTAKE SCREEN, LOWER	1				
3	6110056.7	KICKSTAND	1				
4	64139-21	BLT-WLF 3/8-16X3/4	4				
5	64139-24	BLT-WLF 3/8-16 X 1	4				
6	64163-87	WASHER, .391X1.375X12GA	4 2				
7	99-F36	BOLT, LEG RETAINER	1				
8	64141-13	NUT WLF 1/2-13	1				
9	64168-1	COTTER-HAIRPIN .12X2-3/8	3 1				
10	4175618.17	TUBE-TURBINE BLOWER	1				
11	64141-2	NUT-WLF 1/4-20	4				
12	64141-6	NUT, 5/16-18	4				
13	4166802.17	GUARD-NOZZLE	1				
14	21-135	MOTOR	1				
	21-136	SEAL KIT	1				
15	64141-4	NUT-WLF 3/8-16	12				
16	4165649	S-MAIN FRAME	1				
17	64139-18	BLT-WLF 3/8-16X1-1/4	4				
18	64163-67	WASHER516X1X12GA	1				

## **DRIVE PARTS / HYDRAULICS**

## **FIGURE 3**

# TURBINE BLOWER



## **DRIVE PARTS / HYDRAULICS**

# TURBINE BLOWER

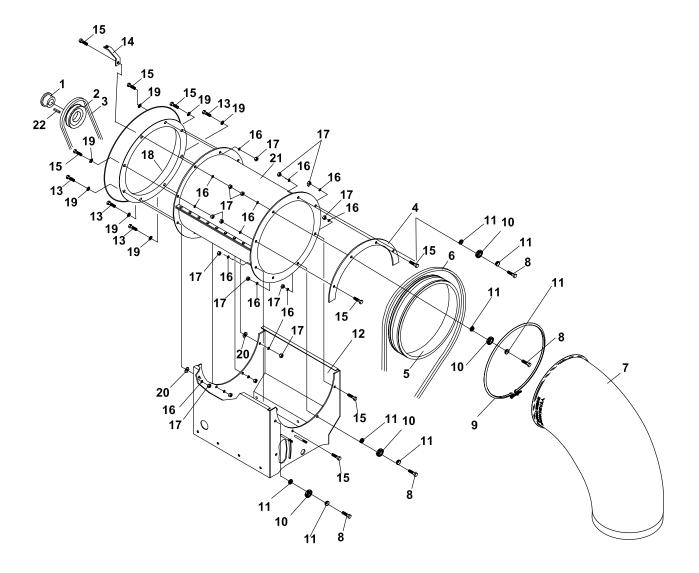
## FIGURE 3

ITEN	M PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	6110052.17	TURBINE MNTG STAND	1				
2	20-017	HOSE, 1/4 X 70	2				
3	25-2503-10-6	FITTING-90	2				
4	21-135	MOTOR-HYD	1				
	21-136	SEAL KIT	1				
5	83-BS2816	PULLEY	1				
6 7	81-A053	BELT-A53	1				
	83-BK5012	PULLEY-5"	2				
9	55-FB23012	BEARING	2				
10	64139-24	BLT-WLF 3/8-16 X 1	2				
11	05-039	GROMMET-1-5/16IDX2OD	1				
12	64141-4	NUT-WLF 3/8-16	2				
13	64164-11	KEY-3/16X3/16X1-1/4	2				
14	6110009	SHAFT-INPUT DRIVE	1				
15	6110057.7	MOUNTING PLATE-BRG	1				
16	6110030.7	SPACER-BRG PLATE	1				
17	64262-013	BLT-FLNGE 3/8-16X1-1/2	2				
18	81-B050	BELT-B50	1				
19	4165649	MAIN FRAME	1				
20	25-0103-4-6	FITTING-STR	2				
21	23-004	QUICK COUPLER-MALE	2				
22	4165751	CLAMP, HOSE 1/2"	2				
23	64123-283	BLT-HEX, 1/4-20 X 1-3/4	2				
24	64164-28	WOODRUFF KEY-1/4 X 1	1				
25	64229-01	NUT-NYLON LOCK 1/4-20	2				
26	6110014	BOLT-ADJ 5/8	1				
27	64001-1	NUT, HEX JAM 5/8-18	1				

## **TURBINE PARTS**

## **FIGURE 4**

TURBINE BLOWER



## **TURBINE PARTS**

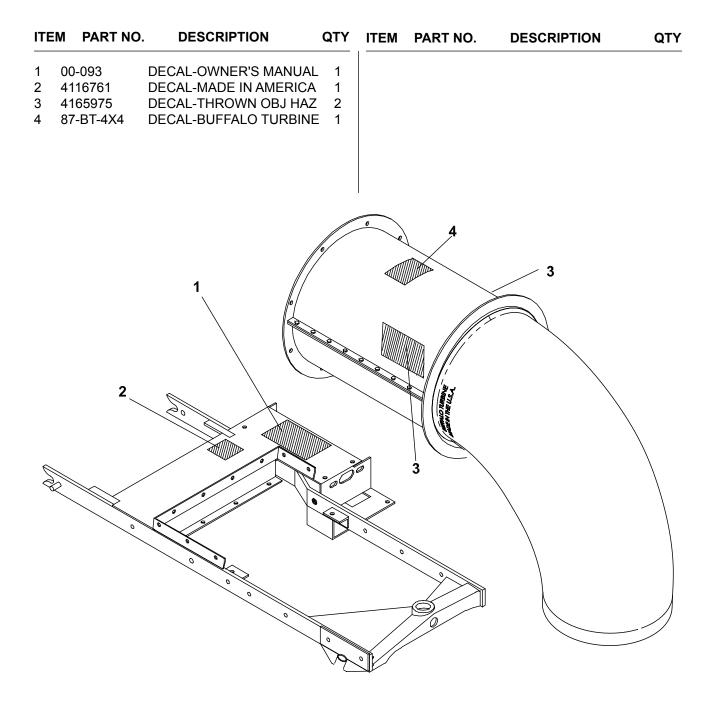
# TURBINE BLOWER

## FIGURE 4

ITE	M PART NO	D. DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	83-H20	BUSHING, 1-1/4" H	1				
2	83-BK65H	PULLEY-6.5" H BUSHING	1				
3	81-B050	BELT-B50	1				
4	6110022.17	SPACER-NOZZLE RING	1				
5	4175903-04	BASE RING-V-GROOVE	1				
6	81-A053	BELT-A53	1				
7	4175903-01	NOZZLE-PLASTIC	1				
8	4175903-02	BOLT 3/8-24 X 2" LG FHCS	4				
9	87-14-139	BANDS-CLAMP	1				
10	4175903-03	BEARING-ELBOW BASE RI	NG4				
11	4175903-05	BUSHING-BEARING	8				
12	6110052.17	TURBINE MNTNG STAND	1				
13	64123-37	BOLT,HEX 3/8-24 X 1-1/2	4				
14	6110047.17	BRACE-INTAKE SCREEN	1				
15	64123-21	BLT-HEX 3/8-24X1-1/4	8				
16	64006-03	LOCKWASHER-3/8 HEL	16				
17	64025-04	NUT-3/8-24	16				
18	87-14-221-D	1 BELLMOUTH	1				
19	64163-61	WSHR .81X.406X16GA	7				
20	87-14-1605-4	A SPACER-3/8 X 1 X 3/16	2				
21	87-14-924	BLOWER-TURBINE ASSY	1				
*	00-290	DECAL-ROTATION POS INE	) 1				
22	64164-10	KEY1/4X1/4X1-1/4 MACH	1				
	*	NOT ILLUSTRATED					

#### **FIGURE 5**

TURBINE BLOWER





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