

SMITHCO

Wayne, Pennsylvania 19087

**OWNER'S
MANUAL**

**WINDSTAR BLOWER
MODEL # 55-100**

**For Customer Service
Call: (888) 422-5173**

Starting Serial # W100

Revised January, 2005

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INTRODUCTION

Thank you for purchasing a **SMITHCO** 55-100 Windstar Blower.

Carefully read this manual as it includes safety, operating, assembly and maintenance instructions. Failure to do so could result in personal injury or equipment damage.

Keep manuals in a safe place after operator and maintenance personnel have read them. Right and left sides are from the operator's seat, facing forward.

All **SMITHCO** machines have a Serial Number and Model Number. Both numbers are needed when ordering parts. The serial number plate on the 55-100 Windstar is located on the right, inside of the main frame.

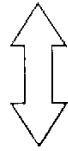
For easy access, record your Serial and Model numbers here.

SMITHCO		DATE OF MFG.
WAYNE, PENNSYLVANIA 19087 USA 610-688-4009 FAX 610-688-6069		<input type="text"/>
SERIAL NO.	kw/hp	
<input type="text"/>	<input type="text"/>	
MODEL NO.	kg/lb	
<input type="text"/>	<input type="text"/>	

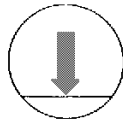
Information needed when ordering replacement parts:

1. Model Number of machine.
2. Serial Number of machine.
3. Name and Part Number of part.
4. Quantity of parts.
5. Ship Via

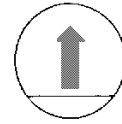
SYMBOLS



Up/Down Arrow



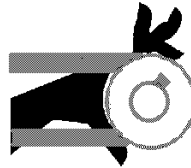
Down/Lower



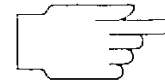
Up/Raise



No Smoking



Moving Parts



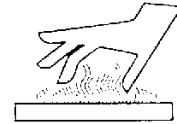
Manual Operation



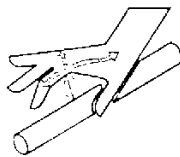
Pinch Point



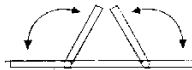
Step



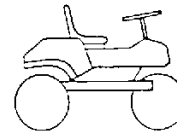
Hot Surface



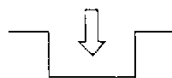
Hydraulic Fluid Penetration



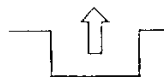
Lift Arm



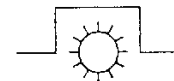
Tractor



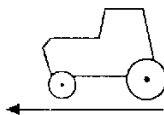
Engage



Disengage



PTO



Ground Speed



Fast



Slow

H

High

L

Low

F

Forward

R

Reverse

N

Neutral



Warning
Danger
Caution

SYMBOLS

	Read Operator's Manual		Electrical Power		No Electrical Power
	Engine - Stop		Engine - Start		Engine - Run
	Engine Oil		Temperature Light		Water Temperature
	RPM 1000/mi		Gasoline		Diesel
	Glow Plug - On		Glow Plug - Off		Glow Plug
	Hour Meter		Hour Meter		Fuse
	Hand Throttle		Choke - Closed		Choke - Open
	Park Brake		Park Brake Release		Hydraulic Oil Level

SAFETY INSTRUCTIONS



SAFETY WARNING!

ALL SHIELDS AND GUARDS MUST BE IN PLACE FOR PROPER AND SAFE OPERATION OF THIS EQUIPMENT. WHERE THEY ARE SHOWN REMOVED IN THIS MANUAL, IT IS FOR PURPOSES OF ILLUSTRATION AND INSTRUCTION ONLY. DO NOT OPERATE THIS EQUIPMENT UNLESS ALL SHIELDS AND GUARDS ARE IN PLACE.



THIS SYMBOL:

SAFETY WARNING!

MEANING: Failure to understand and obey this warning may result in injury to you or others.

ADDITIONAL SAFETY INSTRUCTIONS

1. Keep hands, feet and clothing away from all PTO driven parts.
2. Keep all guards and shields in place during operation.
3. Never attempt to adjust, clean or lubricate the machine while in operation.
4. Before starting tractor, make sure that the transmission and PTO are disengaged.



SAFETY WARNING!

Recommended tractor PTO is 35 H.P. minimum
PTO R.P.M. is recommended at 540, maximum 600 R.P.M.

CONTROL IDENTIFICATION & ASSEMBLY

1. PTO Shaft – Transfers power from the tractor to the SMITHCO Blower. Make sure up or down angle of PTO shaft does not exceed 15 degrees.
2. Mount the Blower to the 3-Point hitch of the tractor.
3. Drive sheaves, belts, bearings and shields – All sheaves, belts and bearings are driven by the PTO.

ASSEMBLY

1. Remove from crate
2. Connect PTO shaft to input shaft of machine, tighten screws on shaft.
3. Adjust casters with spacers provided to allow for proper ground clearance.
4. Mount Blower to 3-point hitch of tractor and connect PTO shaft.

OPERATING INSTRUCTIONS

Know the location and function of all controls and how to stop the equipment quickly in an emergency before you operate the equipment.

BEFORE OPERATION

1. Before operating this equipment, read and understand the Owner's Manual.
2. Never allow children to operate this machine.
3. Never operate this machine in the vicinity of bystanders.
4. Before servicing or inspecting this machine, make certain that the power source is shut down and that all moving parts have stopped and then disconnect PTO shaft.
5. Never allow hands, clothing or any part of the body to enter the intake or near moving parts.
6. Wear approved eye and ear protection while operating the machinery.
7. Before starting the machine, visually inspect all nuts, bolts and other fasteners to see that they are properly secured. Check all fasteners every 10 to 12 hours of operation for proper alignment and tightness.

OPERATION

1. If a foreign object should strike the fan mechanism of the machine and cause an unusual noise or vibration, shut the PTO off immediately and allow it to come to a complete stop. Disconnect the PTO from the power unit, and then do the following:
 - A. Inspect for damage.
 - B. Repair or replace any damaged parts.
 - C. Check and tighten any loose fasteners or parts.
2. Keep material from building up in the intake area as this may prohibit proper discharge air.
3. Keep all safety shields and guards in place and in good working condition.
4. Keep your face and all body parts away from intake and discharge openings.
5. Discharge spout produces high air velocity and can propel material up to 80 feet from the machine.

OPERATING INSTRUCTIONS (Continued)

6. Replace damaged or missing safety decals.

NOTE: The Blower belts will become stretched and need readjustment after the first hours of use. 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.

BEGIN OPERATION



SAFETY WARNING!

Obtain and wear ear protection and safety glasses when operating this machine. Do not wear loose fitted clothing. Operator should always wear heavy-duty gloves, boots and other articles of clothing. A safe operator is one who practices safety and uses good common sense to protect himself.

Do not operate in the vicinity of bystanders.

1. Mount Blower to 3-point of tractor and connect PTO shaft to tractor output shaft.
2. Adjust center link on tractor so that the Blower is setting level at the ground surface. Make sure there is sufficient clearance between the blower and the ground surface. This will eliminate any scalping of ground surface.
3. If it is necessary to inspect or work on the Blower, always disengage the PTO and shut off the tractor engine before doing so.

STOP OPERATION

On PTO models, move throttle on tractor to the slow position and disengage the PTO lever on the tractor. Shut off the tractor engine and allow the machine to come to a complete stop.



SAFETY WARNING!

The impeller is heavy and will continue to turn even though the operator has shut off the power source. Do not attempt to service or inspect the machine until you see that the shafts have stopped turning.

SERVICE

BREAK – IN SERVICE

After the first hour of use:

1. Check belts. Retension if needed.
2. Tighten set screws on bearings.
3. Check nuts, bolts and fasteners to see that they are secure.

LUBRICATION

Lubricate grease fitting on bearings and PTO shaft.

TROUBLESHOOTING

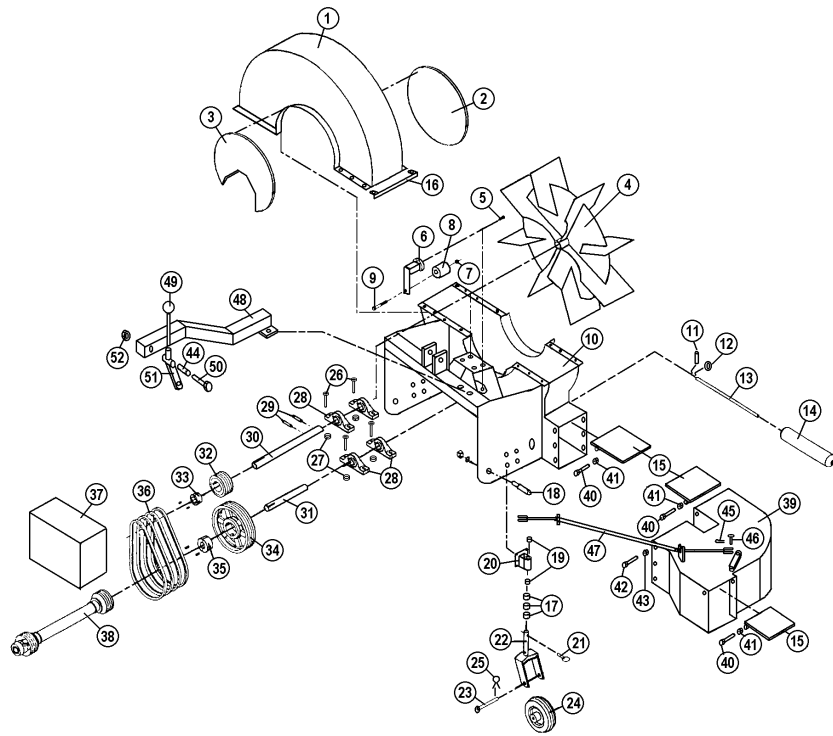
BELTS

Problem	What to Check
Belts slip	Tension adjustment Load may be excessive Bearings may have seized
Belts wear rapidly	Pulley's may not be properly aligned
Belts, jump, catch or twist	Check with straightedge across faces of pulleys

INTAKE AND DISCHARGE

Problem	What to Check
Lack of air flow	Intake congested Discharge plugged

55-100 WINDSTAR BLOWER DRAWING



55-100 WINDSTAR BLOWER PARTS LIST

REF#	PART#	DESCRIPTION	QTY.
1	550-262	Fan Housing Top	1
2	550-215	Blower Panel 21"	1
3	550-242	Rear Blower Panel	1
4	550-220	Fan	1
5	400-026	1/2" x 1" Bolt	1
6	550-206	SE27 Tensioner Sprocket	1
7	400-106	5/8" Nut	1
7	400-211	5/8" Lockwasher	1
8	550-205	P3B Sprocket	1
9	400-141	5/8" x 5" Bolt	1
10	550-263	Blower Housing Bottom	1
11	40-168	1/8" x 1" Cotter Pin	2
12	40-128	5/8" Bushing	4
13	550-259	Roller Shaft	1
14	550-248	Rubber Roller	1
15	550-260	Blower Flap	3
16	550-265	Cover Strap	2
17	550-261	Caster Spacer	4
18	550-209	Pin w/ Nut & Lockwasher	2
19	720-064	1" Bushing	2
20	550-264	Caster Mounting Bracket	2
21	550-258	Latch Pin	2
22	550-247	Caster Fork	2
23	550-257	Caster Axle	2
24	550-246	Wheel & Tire	2
25	720-043	1/8" x 1 1/2" Cotter Pin	2
26	400-028	1/2" x 2" Bolt	8
27	400-105	1/2" Nut	8
28	550-207	Bearing	4
29	550-249	Spring Pin	2
30	550-222	Shaft 22 1/4"	1
31	550-226	Shaft 16 1/4"	1
32	550-202	4/5 v5.5 SD QD Sheave	1
33	550-200	1 1/2 QD Bushing	1
34	550-203	4/5 V11.3E SD Sheave	1
35	550-201	E 1 1/2 QD Bushing	1
36	550-204	5V x 540 V Belt	4
37	550-256	Belt Guard	1
38	550-208	PTO Shaft	1
39	550-267	Chute	1
40	400-028	3/8" x 2" Bolt	6

55-100 WINDSTAR BLOWER PARTS LIST (Continued)

REF#	PART#	DESCRIPTION	QTY.
41	400-116	3/8" Locknut	6
42	400-002	5/16" x 1" Bolt	6
43	400-109	5/16" Locknut	6
44	10-007	Oilite Bushing	2
45	720-079	1/8" Cotter Pin	2
46	720-078	5/16" x 1" Clevis Pin	2
47	44-719	Shift Cable	1
48	550-266	Control Arm	1
49	932-040	Plastic Ball Knob Handle w/Shaft	1
50	400-029	1/2" x 3" Bolt	1
51	550-268	Cable Control Bracket	1
52	400-112	1/2" Locknut	1

LIMITED WARRANTY

SMITHCO warrants this product to be free from defects in material and workmanship under normal use for one year from the date of purchase by the original user. (60 days if product is used for rental purposes.) All warranty claims must be handled through a SMITHCO authorized dealer or by SMITHCO, INC. All transportation charges must be paid by the purchaser.

There is no further express warranty. All implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year. (60 days if product is used for rental purposes) from date of purchase by the original user, and, to the extent permitted by law any and all implied warranties are excluded and disclaimed after the expiration of such period.

All incidental and consequential damages, including pick-up and delivery of the unit, communication, mileage charges and/or rental of a replacement unit during repair, are not covered under this warranty, or is any loss of income and/or other loss resulting from the failure of the product to function due to a warranty defect.

The following items are not covered under the SMITHCO warranty and are warranted by their respective manufacturer.

- a) Engine and engine parts including starters, generators, alternator and filters.
- b) Transaxle, differentials, gear boxes, and mechanical pumps.
- c) Hydrostatic transmissions, hydraulic pumps and motors.
- d) Batteries
- e) Wheels and tires.

A copy of the warranty for the above items is furnished if necessary with each SMITHCO product.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion of limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Federal law now requires disclosure of the warranty which applies to this product prior to the sale to a consumer. Please leave this statement attached to the product and allow the buyer to remove it after purchase.

SMITHCO
Wayne, Pennsylvania 19087

