

OWNER/OPERATOR'S MANUAL & PARTS LIST

POWER BLOWER

LA160





Orrville, OH www.ventrac.com

TO THE OWNER

Congratulations on the purchase of a new VENTRAC **LA160 Power Blower!** The purpose of this manual is to assist you in its safe and effective operation and maintenance.

With proper usage and care, the **power blower** will provide many years of service. Please read and understand this manual entirely before using the **power blower**. Keep this manual on file for future reference.

Always give Model and Serial # when ordering service parts.

Please fill in the following information for future reference:

Date of Purchase: Month	Day	Year	
Model Number:			
Serial Number:			
Dealer:			
Dealer Address:			
Dealer Phone Number:			
Dealer FAX Number:			

Venture Products Inc. reserves the right to make changes in design or specifications without incurring obligation to make like changes on previously manufactured products.

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INTRODUCTION

Product Description LA160 Power Blower

This revolutionary power blower features a new vertical shaft design that delivers powerful, yet quiet, performance. The 160 mph blowing power and the 180 degree, side to side rotational discharge (directed manually or by the auxiliary lever from the operator's seat) delivers unprecedented results.

The power blower can be used to remove leaves, light snow, water, etc. The rotational feature allows the full discharge effect in any direction. The forward position offers a unique way to clear light snow, leaves or debris from sidewalks and driveways.

Two gauge wheels on the power blower maintain a consistent distance from the surface. <u>Maximum</u> performance is produced <u>throughout</u> the 180° arc. Performance results can be reduced by lowering engine rpms.

An optional hydraulic package is available for rotational control from the tractor seat.

Ventrac LA160 Specifications

Overall Height
Overall Length
Overall Width
Fan
Fan Diameter
Fan Width
Gauge Wheels
Discharge Opening
Wind Speed
Weight
Venture Products, Inc. reserves the right to change these specifications without notice.



ATTENTION:

This symbol identifies potential health and safety hazards. It marks safety precautions. Your safety and the safety of others is involved.

SIGNAL WORD DEFINITIONS

A DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme cases.

A WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION

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

SAFETY

The following decals must be maintained on your Ventrac Attachment. If any decals are faded or missing, contact your dealer promptly for replacements.





В



Decal	Page & Location	Description	Part Number
Α	E-1, #26	HAZARD-MOVING PART	00.0101
В	E-3, #3	KEEP HAND AND FEET AWAY	00.0123
С	E-1, #20	VENTRAC SERIAL NO. PLT.	N/A



General Safety Procedures for Ventrac Tractors, Attachments, & Accessories



Read and understand the operator's manual before operating this equipment.

Observe and follow all safety decals.

DO NOT let children or any untrained person operate the tractor or attachment. Make sure that all operators of this equipment are thoroughly trained in using it safely.

Never allow additional riders on the tractor or attachments.

DO NOT operate tractor or attachments if you are under the influence of alcohol, drugs, or medication that may impair judgment or cause drowsiness, or if you are not feeling well.

Operate all controls from the operator's seat only.

Before operating equipment, make sure all shields are in place and fastened.

Ensure the attachment or accessory is locked or fastened securely to the tractor before operating. See tractor manual for locking procedure.

Ensure that all bystanders are clear of the tractor and attachment before operating. Be especially careful and observant if other people are present. Never assume that bystanders will remain where you last saw them.

Always look in the direction the tractor is moving.

Never direct the discharge of any attachment in the direction of people, animals, buildings, vehicles, or objects of value.

Stop operation immediately at any sign of equipment failure and correct the problem before continuing to operate. An unusual noise can be a warning of equipment failure or a sign that maintenance is required.

Before adjusting, cleaning, lubricating, or changing parts on the tractor or attachment, engage the parking brake, lower the attachment to the ground, stop the engine, and remove the ignition key.

To prevent the risk of uncontrolled equipment movement on tractors equipped with 2 speed axles, always shift the transaxle range with the tractor stationary on level ground and with the parking brake engaged.

If equipment is to be left unattended, engage the parking brake, lower the attachment to the ground, stop the engine, and remove the ignition key.

SAFETY

LA160 Safety Procedures

A WARNING

Before making any repairs or adjustments, engage the parking brake, lower attachment to the ground, shut the engine off, and remove the key.

A WARNING

Read and understand the operator's manual before operating this equipment.

Never allow anyone to ride on the blower. Be especially careful and observant whenever anyone else is in the vicinity while you are operating this equipment. Do not operate when a person is in front of or on either side of the blower.

Always operate blower in the float position unless discharge preference is higher than the gauge wheel position.

Operators should never direct the discharge chute toward people or anything that could be damaged by a thrown or blown object!

OPERATION

Attaching

- 1. Drive the tractor slowly forward into the hitch arms on the power blower. Align the lift arms of the tractor with the power blower hitch arms by raising or lowering the front hitch and complete the engagement.
- Once completely engaged, close the front hitch locking lever.*
- 3. Engage the parking brake* and shut off engine.
- 4. Place the attachment belt onto the PTO drive pulley on the tractor. Ensure the belt is properly seated in each of the four pulleys.
- 5. Engage the PTO tension spring. (See Figure 1)
- 6. If equipped with hydraulic directional control option, wipe hose ends clean, and connect to the tractor's hydraulic quick couplers.

NOTE: If the rotation action seems backward, reverse the quick coupler conections.

If one or both couplers will not engage, relieve pressure by tapping the coupler end on a hard surface. **Caution:** A small amount of oil will leak.



Figure 1

Detaching

- 1. Park the tractor on a level surface and set the parking brake.*
- 2. Lower the power blower to the ground.
- Shut off tractor engine.
- 4. Disengage the PTO tension spring. (See Figure 1)
- 5. Remove the attachment belt from the PTO drive pulley of the tractor.
- 6. If equipped, disconnect the hydraulic quick couplers from the tractor and store the hose ends in the top frame holes.
- 7. Disengage the hitch locking lever.*
- 8. Restart tractor and slowly back away from the power blower.

NOTE: The gauge wheels make it easy to hand move the power blower to a storage spot.

^{*} Refer to tractor manual for operation of controls.

OPERATION

Operating Techniques & Tips

Set the discharge of the power blower in the desired direction. <u>Caution: The power blower is very powerful and can cause damage and/or unintentionally displace things.</u>

The operator must be sitting on the tractor seat before the PTO can be engaged. The tractor engine should be running between 2,000 and 2,500 RPM before engaging the PTO switch. Increase the engine speed until there is sufficient force to accomplish the blowing task.

Full engine speed will produce approximately 160 MPH wind at the blower outlet. **Caution: Air** seems harmless, but it can be dangerous! **ALWAYS** use caution!

Generally, the power blower should ride on the gauge wheels with the <u>tractor hitch in the float position</u>. ALWAYS use FLOAT if the gauge wheels contact the ground surface. The power blower gauge wheels are <u>not</u> designed to carry tractor weight. The power blower can also be operated while lifted off the ground.

If the power blower requires manual rotation, ALWAYS put the tractor in PARK and shut off the PTO before leaving the tractor seat to change the blower discharge direction. To rotate the power blower manually, pull the rotation lock lever "out" and rotate the blower housing with the other hand. (See Figure 2) Release the lever to lock the blower housing in position.

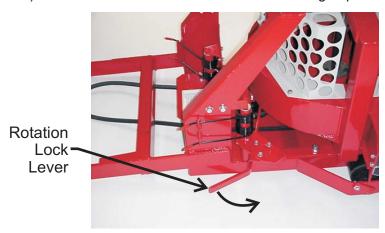


Figure 2

The power blower in the forward position can be effectively used to blow light snow, leaves, and debris from sidewalks.

MAINTENANCE/ADJUSTMENTS

Lubrication

- Grease the bearings on each end of the rotor shaft after every 50 hours of operation or once per season, whichever comes first. Usually 1-2 pumps of grease are sufficient. If the lower bearing is subjected to water or other harsh environments, it should be greased promptly and/or frequently.
- Remove the gauge wheels and grease the axle shafts as needed.

Belt Replacement

- 1. When the drive belt becomes excessively worn or breaks, install a new belt.
- 2. Remove the V-idler pulley.
- 3. Replace the belt.
- 4. Reinstall the V-idler pulley.

A CAUTION

Ensure that belts are always properly located in each pulley.

MAINTENANCE/ADJUSTMENTS

Optional Hydraulic Directional Control Installation

- 1. Release the tension spring on the rotation lock handle.
- 2. Remove the three bolts that hold the rotation lock lever to the motor mount. (See Figure 3)

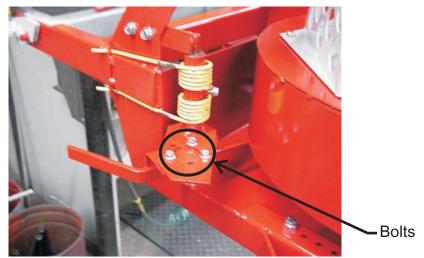


Figure 3

- 3. Install hydraulic motor with the three bolts provided in the kit and tighten properly. (See Figure 4)
- 4. Install pulley as shown in Figure 4.

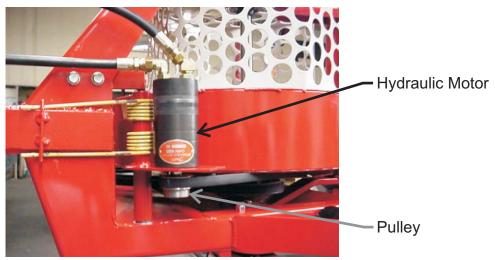
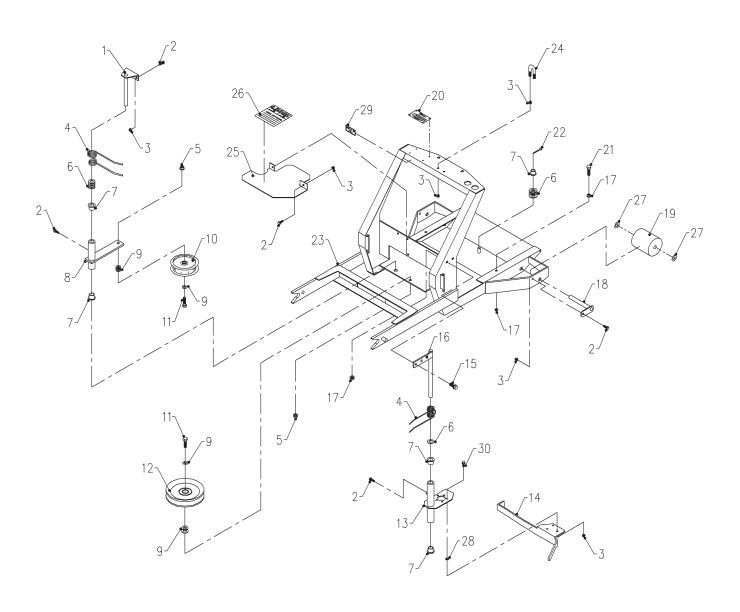


Figure 4

- 5. Install the belt. **NOTE:** The fan drive belt needs to be released to install the directional control belt into the belt groove on the underside of the blower housing.
- 6. Engage the tension spring and ensure the belt is properly located in pulleys.

PARTS MANUAL

ILLUSTRATED DRAWING MAIN FRAME

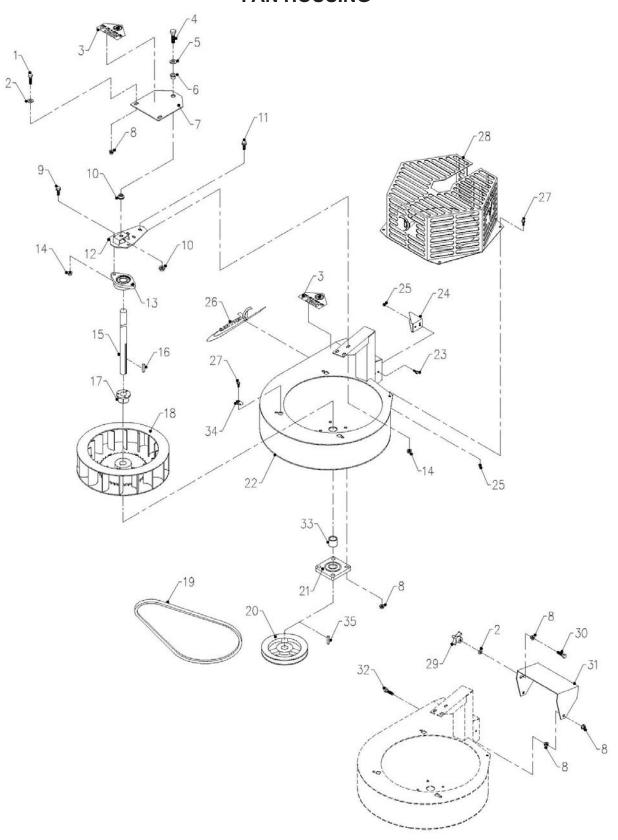


PARTS

MAIN FRAME

REF.	PART NO.	DESCRIPTION	QTY.
2	99.SF0404		8 13 2 2
8	40.0284	BUSHING, 1/2 ID X 5/8 OD X 5/8 IDLER ARM LA160. WASHER, FLAT 3/8 SAE. PULLEY, IDLER FLAT 4" X 3/8. BOLT, 3/8-16 USS X 1 3/4. PULLEY, V-IDLER 5 1/4 X 3/8 ID.	1 7 1 2
14	40.0283	,	1 2 1 6
20	NOT AVAILABLE	ROLLER, FRONT 3" DIA X 3 1/2" DECAL, VENTRAC SERIAL NO. PLT. BOLT, 5/16-18 USS X 1 1/2 COTTER PIN, 1/8 X 1 FRAME, MAIN LA160 U-BOLT, 1/4-20 1-1/8" ID	1 2 1 1
26	95.10	COVER, BELT LA160	1 4 3 1

ILLUSTRATED DRAWING FAN HOUSING

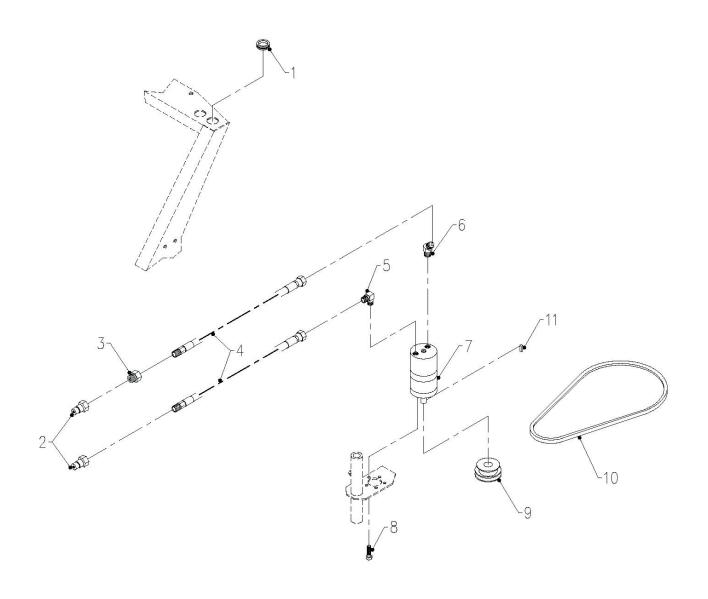


PARTS

FAN HOUSING

REF.	PART NO.	DESCRIPTION	QTY.
1	. 95.06	WASHER, FLAT 1/2 SAE	2 2 1 1
8 9 10	99.SF06	BOLT, SF 5/16-18 USS X 1	. 11 2 2 3
14 15 16 17	99.SF05		5 1 1 1
20 21 22	. 83.BK6016	BELT, A75 PULLEY, 6" 1"BORE BEARING, FLANGE, 1". HOUSING, FAN. BOLT, SF 1/4-20 X 1/2 GUARD, HAND/AIR FLOW GUIDE	1 1 1 4
25	00.0189 . 99.SF0405-1 . 62.0838 . 47.0213	DECAL, VENTRAC ORBITAL	1 4 1 1
32 33 34	. 90.0608	DEFLECTOR, BLOWER	2 1 3

ILLUSTRATED DRAWING HYDRAULIC DIRECTIONAL CONTROL



PARTS

HYDRAULIC DIRECTIONAL CONTROL

REF.	PART NO.	DESCRIPTION	QTY.
2	23.0104	GROMMET, 3/4ID,1 3/8OD,1/2THK COUPLER, HYD. QUICK MALE 1/4 FITTING, .025 ORIFICE 1/4 PIPE HOSE, ASM X 38" 1/4-1W FITTING, 90 ME 3/8 X 3/8 FITTING, 45 ME 3/8 X 3/8	2
8 9 10	91.0404	MOTOR, HYD PEERLESS 1.93 CU.IN BOLT, 1/4-28 SAE X 1/2 PULLEY, AS 1.7" 5/8" BORE BELT, A50 KEY, 3/16 X 5/8.	3



LIMITED WARRANTY – VENTRAC TURF EQUIPMENT

Venture Products, Inc. (shall be referred to as *V.P.I.*) warrants on the terms and conditions herein, that it will repair, replace, or adjust any part manufactured by *Venture Products* Inc. and found by *Venture Products Inc* to be defective in material and / or workmanship.

Effective September 1st 2005, *Ventrac* warranty on Tractors & Attachments (excluding the HG100/HG150 generator) for **Residential use only** is limited to **Three (3) years** from original purchase date. Ventrac Tractors & Attachments used **Commercially or for any income producing purpose** is limited to **Two (2) years** from original purchase date. *Ventrac* ET200 turbine blower (turbine only) is limited to **Two (2) years** from original purchase date. *Ventrac* HG100/HG150 generator is limited to **One (1) year** from original purchase date. *Ventrac* Tractors & Attachments used for **Rental** is limited to **180 days** from original purchase date. (**NOTE:** All accessories such as: 3-point hitch, foot pedal, dual wheel kit, etc. will be covered under the above warranty periods as they would apply provided they are installed by an Authorized *Ventrac* Dealer.) This warranty may be transferred and will carry the remainder of the warranty starting from the Original Purchase/Registration date with the dealership and/or *V.P.I*. In the event that product/s originally registered as (3) year Residential use are to be transferred to a commercial user the warranty would change to the remainder of (2) year Commercial use starting from the Original Purchase/Registration date with the dealership and/or *V.P.I*.

If this warranty covers a consumer product as defined by the Magnusson-Moss warranty act, no warranties, express or implied, (including, but not limited to, the warranty of merchantability or fitness for a particular purpose) shall extend beyond the applicable time period stated in bold face type above.

If this warranty covers a product used commercially or for any income producing purpose, the foregoing warranties are in lieu of all other warranties and no representations, guarantees or warranties, express or implied, (including, but not limited to, a warranty of merchantability or fitness for a particular purpose), are made by *V.P.I.* in connection with the manufacture or sale of its products.

The engine warranty is covered by its respective engine manufacturer. Please refer to the engine manufacturer's warranty statement that is included in the owner's manual.

The *Ventrac* turf equipment, including any defective parts, must be returned to an Authorized *Ventrac* Dealer within the warranty period. The warranty shall extend to the cost to repair or replace (as determined by *V.P.I.*) the defective part. The expense of pickup and delivery of equipment, service call drive time or any transportation expense incurred for warranty repair is the sole responsibility of the owner and is not covered under warranty by *Ventrac and/or V.P.I. V.P.I.* 's responsibility in respect to claims is limited to making the required repairs or replacements, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any *Ventrac* equipment. Proof of purchase may be required by the dealer to substantiate any warranty claim. Only warranty work performed and submitted by an Authorized *Ventrac* Dealer may be eligible for warranty credit.

This warranty extends only to *Ventrac* turf equipment operated under normal conditions and properly serviced and maintained. The warranty expressly does **NOT** cover: (a) any defects, damage or deterioration due to normal use, wear and tear, or exposure; (b) normal maintenance services, such as cleaning, lubrication, oil change; (c) replacement of service items, such as oil, lubricants, spark plugs, belts, rubber hoses or other items subject to normal service replacement; (d) damage or defects arising out of, or relating to abuse, misuse, neglect, alteration, negligence or accident; (e) repair or replacement arising from



LIMITED WARRANTY – VENTRAC TURF EQUIPMENT

operation of, or use of the turf equipment which is not in accordance with operating instructions as specified in the operator's manual or other operational instructions provided by V.P.I.; (f) repair or replacement arising as a result of any operation from Ventrac turf equipment that has been altered or modified so as to, in the determination of V.P.I., adversely affect the operation, performance or durability of the equipment or that has altered, modified or affected the turf equipment so as to change the intended use of the product; (g) repair or replacement necessitated by the use of parts, accessories or supplies, including gasoline, oil or lubricants, incompatible with the turf equipment or other than as recommended in the operator's manual or other operational instructions provided by V.P.I.; (h) repairs or replacements resulting from parts or accessories which have adversely affected the operation, performance or durability of the turf equipment; or (i) damage or defects due to or arising out of repair of Ventrac turf equipment by person or persons other than an authorized Ventrac service dealer or the installation of parts other than genuine Ventrac parts or Ventrac recommended parts.

The sole liability of *V.P.I.* with respect to this warranty shall be repair and replacement as set forth herein. *V.P.I.* shall have no liability for any other cost, loss, or damage. In particular *V.P.I.* shall have no liability or responsibility for: (i) expenses relating to gasoline, oil, lubricants; (ii) loss, cost or expense relating to transportation or delivery of turf equipment from the location of owner or location where used by owner to or from any Authorized *Ventrac* Dealer; (iii) travel time, overtime, after hours time or other extraordinary repair charges or charge relating to repairs or replacements outside of normal business hours at the place of business of an Authorized *Ventrac* Dealer; (iv) rental of like or similar replacement equipment during the period of any warranty repair or replacement work; (v) any telephone or telegram charges; (vi) loss or damage to person or property other than that covered by the terms of this warranty; (vii) any claims for lost revenue, lost profit or additional cost or expense incurred as a result of a claim of breach of warranty; or (viii) attorney's fees.

The remedies of buyer set forth herein are exclusive and are in lieu of all other remedies. The liability of *V.P.I.*, whether in contract, tort, under any warranty, or otherwise, shall not extend beyond its obligation as set forth herein. *V.P.I.* shall not be liable for cost of removal or installation nor shall *V.P.I.* be responsible for any direct, indirect, special or consequential damages of any nature. In no event shall *V.P.I.* be liable for any sum in excess of the price received for the goods for which liability is claimed.

There are no representations or warranties which have been authorized to the buyer of the turf equipment other than set forth in this warranty. Any and all statements or representations made by any seller of this equipment, including those set forth in any sales literature or made orally by any sales representative, are superceded by the terms of this warranty. Any affirmation of fact or promise made by *V.P.I.* or any of its representatives to the buyer which relates to the goods that are the subject to this warranty shall not be regarded as part of the basis of the bargain and shall not be deemed to create any express warranty that such goods shall conform to the affirmation or promise.

No employee, distributor, or representative is authorized to change the foregoing warranties in any way or grant any other warranty on behalf of *V.P.I.*

Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion on 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 also have other rights which vary from state to state.

This warranty applies to all Ventrac turf equipment sold in the United States and Canada.