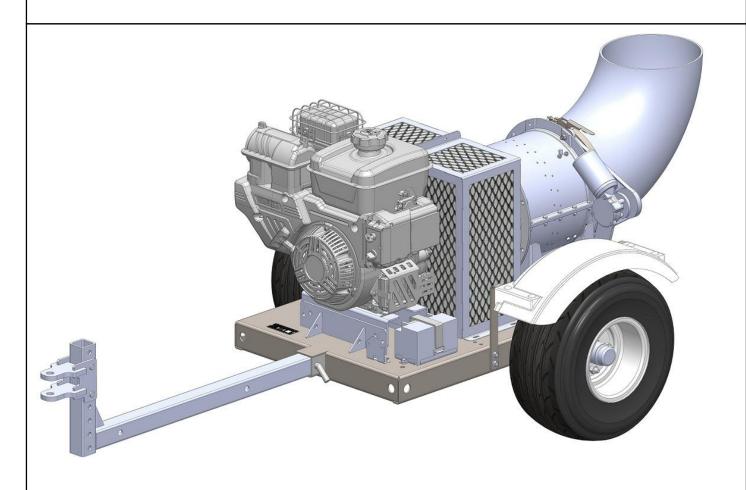
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BUFFALO TURBINE'S BT-CYC8K2 ORIGINAL INSTRUCTIONS AND PARTS MANUAL

03/25 -BT MAN

TABLE OF CONTENTS

| Ref. Number | Description | Page Number |
|-------------|--|-------------|
| 1.0 | Introduction | 2 |
| 2.0 | Safety | 3 |
| 2.1 | Safety Decals | 4 |
| 2.2 | General Safety | 4 |
| 2.3 | Operating Safety | 4 |
| 2.4 | Maintenance Safety | 4 |
| 2.5 | Transport Safety | 5 |
| 2.6 | Storage Safety | 5 |
| 2.7 | Sign-off Form | 5 |
| 3.0 | Warranty Information | 6 |
| 3.1 | Warranty Registration Form | 7 |
| 4.0 | Operations | 8 |
| 4.1 | To the new operator or owner | 8 |
| 4.2 | Break-in | 8 |
| 4.3 | Pre-Operation Checks | 8 |
| 4.4 | Model BT-CKB7 Assembly Instructions | 9 |
| 4.5 | Field Operation | 10 |
| 4.6 | Operating RPM | 10 |
| 4.7 | Storage | 10 |
| 5.0 | Machine Specification | 10 |
| 6.0 | Maintenance | 11 |
| 6.1 | Maintenance Safety | 11 |
| 6.2 | Fluids | 11 |
| 6.3 | Service Checklist | 11 |
| 0.5 | Moreflex Coupling Parts | 12 |
| | Moreflex Coupling Installation | 13 |
| | BT-CYC8K2 Parts Reference | 14 |
| | BT-CYC8K2 Parts Sub-Assemblies | 15 |
| | Wiring Schematic for Nozzle Control System | 16 |
| | Bill of Materials for BT-CYC8K2 | 17 |
| | Nozzle Options | 18 |
| | Buffalo Turbine Additional Products | 19 |
| | Burraio Turonic Additional Froducts | 17 |
| | 1 | |
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1.0 INTRODUCTION

Congratulations on your choice of a Buffalo Turbine Debris Blower. This equipment has been designed and manufactured to meet the needs of the Turf Care Industry.

Safe, efficient and trouble-free operation of your Buffalo Turbine Blower requires that you and anyone else, who will be operating or maintaining the Blower, read and understand all of the safety, operation, maintenance and troubleshooting information contained within this Operator's manual.

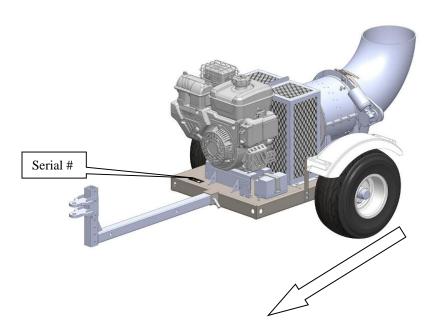
This Manual covers the BT-CYC8K2 Turbine Blower.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Call your Buffalo Turbine dealer or distributor if you need assistance, information, or additional copies of the manuals.

SERIAL NUMBER LOCATION

Always give your dealer the serial number of your Debris Blower when ordering parts or requesting service or other information.

The serial number plate(s) is located where indicated in the pictures below. Please document the number in the space provided for easy reference.



OPERATOR ORIENTATION – The directions left, right, front and rear, as mentioned throughout the manual, are as seen from the driver's seat and facing in the direction of travel.

MODEL BT-CYC8K2

LEFT FRONT TOP SURFACE OF FRAME

| Camial | Number: | |
|--------|---------|--|
| Serial | | |

2.0 SAFETY

YOU are responsible for the **SAFE** operation and maintenance of your Buffalo Turbine Debris Blower. **YOU** must ensure that you and anyone else, who is going to operate, maintain or work around the Buffalo Turbine Blower be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alerts you to all good safety practice while operating the Blower.

Remember **YOU** are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this machine is familiar with the procedures recommended and follows safety precautions. Remember most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Blower owners must give operating instructions to operators or employees before allowing them to operate the Blower, and at least annually thereafter.
- The most important safety device on this equipment is a **SAFE** operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. All accidents can be avoided.
- A person who has not read and understood all operating instructions is not qualified to operate the machine. An untrained operator exposes themselves and bystanders to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety which could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

This Safety Alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

The Safety Alert symbol identifies important safety messages on the Buffalo Turbine Blower and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Why is SAFETY important to you?



3 Big Reasons: Accidents Disable and Kill
Accidents Cost
Accidents Can Be Avoided

SIGNAL WORDS: Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines

- 1. **DANGER** –injury or death if the proper precautions are not taken.
- 2. **WARNING** -- A specific hazard or unsafe practice that COULD result in severe personal injury or death if proper precautions are not taken.
- 3. **CAUTION** Unsafe practices that COULD result in personal injury if proper practices are not taken, or as a reminder of good safety.

The Safety Alert symbol identifies important safety messages on the Buffalo Turbine Blower and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

2.1 SAFETY DECALS

The types of decals on the blower unit are shown below. Good safety requires that you familiarize yourself with the various Safety Decals, the type of warning and the area, or particular function related to that area that requires your **SAFETY AWARENESS.* THINK SAFETY! WORK SAFELY!**

!ATTENTION!

- 1. KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
- 2. STOP ENGINE AND REMOVE KEY BEFORE LEAVING OPERATOR'S POSITION.
- 3. MACHINE MUST COME TO A COMPLETE STOP BEFORE ANY MAINTENANCE, TO INCLUDE ADJUSTING, LUBRICATING OR CLEANING, IS PERFORMED.
- 4. KEEP PEOPLE AND PETS AT SAFE DISTANCE FROM MACHINE.
- 5. KEEP ALL GUARDS AND SHIELDS IN PLACE.



Never operate without eye protection due to blowing debris.



Never operate without ear protection due to prolonged exposure to excessive noise



Never operate without guards in place because there are sharp rotating components that will cause serious injury.

REMEMBER – If safety decals have been damaged, removed, become illegible or parts replaced without decals, new decals must be applied. New decals are available from your authorized dealer.

2.2 GENERAL SAFETY

- 1. Read and understand the Operator's Manual and all safety signs before operating, maintaining, and adjusting.
- 2. Provide a first-aid kit for use in case of an accident. Store in a highly visible place.
- 3. Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.
- 4. Wear appropriate protective gear. This list includes but is not limited to:
 - A hard hat
 - Protective shoes with slip resistant soles
 - Protective glasses or goggles
 - Heavy gloves
 - Wet weather gear
 - Hearing protection
- 5. Do not operate without guards or shields properly installed.
- 6. Do not allow riders.
- 7. Wear appropriate ear protection for prolonged exposure to excessive noise.
- 8. (All Models) Set Blower on the ground, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before dismounting to service or adjust.
- 9. Clear the area of people, especially small children, before starting the unit.
- 10. Review all safety related items annually with all personnel who will be operating or maintaining the Blower.
- 11. Keep hands, feet, hair and clothing away from moving parts. Operate equipment only while seated in the operator's seat.

2.3 OPERATING SAFETY

- 1. Read and understand the Operator's Manual and all safety signs before operating, servicing or adjusting.
- 2. Before servicing or repairing, <u>Set blower on the ground, stop engine, set park brake, remove key, and wait for all moving parts to stop.</u>

2.4 MAINTENANCE SAFETY

- 1. Read and follow ALL general, operating, maintenance and safety information in this manual.
- 2. Support the machine with blocks or safety stands when changing tires or working beneath it.
- 3. Set Blower on the ground, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before operating, servicing or adjusting.
- 4. Make sure all guards are in place and properly secured when operating or maintaining the Blower.

2.5 TRANSPORT SAFETY

- 1. Turf trailer Receptacle Uses a Pin Hitch Only. Use Presto Pin. **Do Not Exceed 15 MPH (24KPH) At Any Time.** Use a DOT Approved trailer for Highway Use and for speeds exceeding 15 MPH (24KPH). Make sure you are in compliant with all local DOT regulations regarding transporting Buffalo Turbine equipment on public roads and highways.
- 2. The CKB7 can be made into a Skid Model by removing the trailer package and can easily be transported and operated in the bed of a standard pick-up truck or utility vehicle. Be sure to block, anchor and secure the unit before operating or transporting. **Do not use the top of the Turbine housing to strap or tie down blower unit.**

2.6 STORAGE SAFETY

- 1. Store the Blower on a firm, level surface.
- 2. Store away from areas of human activity. Do not permit children to play on or around the stored machine.
- 3. Make sure the unit is sitting, or blocked up firm and solid and will not tip or sink into a soft area.
- 4. Cover with a weatherproof tarpaulin and tie down securely.

2.7 SIGN-OFF FORM

- Buffalo Turbine recommends that anyone who will be operating and/or maintaining the Buffalo Turbine Blower must read and clearly understand ALL Safety, Operating and Maintenance information presented in this manual.
- Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.
- Make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. We feel that an untrained operator is unqualified to operate this machine.

A sign-off sheet is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in the Operator's Manual and have been instructed in the operation of the equipment.

SIGN-OFF FORM

| DATE | EMPLOYEES SIGNATURE | EMPLOYERS SIGNATURE |
|------|---------------------|---------------------|
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Buffalo Turbine Debris Blowers

Buffalo Turbine Warranty Policy

3.0 MACHINE WARRANTY INFORMATION

Buffalo Turbine warrants the DEBRIS BLOWER, to the original owner, to be free from defects in material and workmanship, under normal use and service. All machines must have a completed registration form sent to Buffalo Turbine within 30 days of purchase for warranty to apply. Obligation under this warranty shall extend for a period of 10 years from date of purchase and, at the option of Buffalo Turbine, replacement of any parts found, upon inspection by Buffalo Turbine, to be defective. Any parts replaced under warranty will have the remainder of the warranty from the original date of purchase.

Warranty parts during first 2 years will be shipped free of charge via standard ground shipping *If expedited shipping is required charges will be paid by the end user*

Year 1: parts and labor Year 2: parts only

Customer will be required to pay shipping charges for years 3-10

Year 3: Engine, per engine manufacturer's standard / Turbine Assembly / Frame (parts only)

Year 4-10: Turbine Assembly / Frame (parts will be prorated)

Buffalo Turbine reserves the right to incorporate improvements in material and design of its products without notice and is not obligated to make the same improvements to equipment previously manufactured.

ALL WARRANTY REPAIRS NEED PRE-APPROVAL BY A FACTORY PERSON (FROM BUFFALO TURBINE) PRIOR TO COMMENCING WITH A WARRANTY REPAIR TO INCLUDE SERIAL NUMBER AND HOURS FROM HOUR METER (IF EQUIPPED). PRE-APPROVAL WILL BE REQUIRED BY THE END USER AND DEALER/DISTRIBUTOR LEVEL.

Factory ordered Buffalo Turbine parts must be used when filing a warranty claim.

LIMITATIONS OF LIABILITY

This warranty is expressly in lieu of all other warranties expressed or implied and all other obligations or liabilities on our part of any kind or character, including liabilities for alleged representations or negligence. We neither assume nor authorize any other person to assume on our behalf, any liability in connection with the subsequent sale of the **DEBRIS BLOWER**. This warranty shall not apply to any DEBRIS BLOWER, which has been altered outside the factory in any way so as, in the judgment of Buffalo Turbine, to affect its operation or reliability, or which has been subject to misuse, neglect, or accident. This warranty does not cover parts and accessories, which are under separate guarantee from the manufacturers and service can be, obtained from their service facilities. No warranty is extended to regular service items such as lubricants, belts, paint and the like.

Original Instruction Manual

The Purchaser acknowledges having receiving training in the safe operation of the DEBRIS BLOWER and further acknowledges that Buffalo Turbine does not assume any liability resulting from the operation of the DEBRIS BLOWER in any manner other than described in the Operator's Manual supplied at the time of purchase.

WARRANTY VOID IF NOT REGISTERED (see Page 2 for warranty registration form)

DO NOT SPLIT THE TURBINE HOUSING FOR ANY REASON.

DO NOT ATTEMPT TO SERVICE OR DISASSEMBLE THE TURBINE BLOWER.

DO NOT USE THE TOP OF THE TURBINE HOUSING TO STRAP OR TIE DOWN BLOWER UNITS.

Unauthorized service work on the Turbine Blower will null and void all warranties.

If there are any questions regarding any of our products call Buffalo Turbine at 716 592 2700.

3.1 Warranty Registration Form

BUFFALO TURBINE

WARRANTY REGISTRATION FORM & INSPECTION REPORT

Any units not registered with Buffalo Turbine are not eligible for warranty claims

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery

| Customer's Name | Dealer's Name |
|--|--|
| Address | Address |
| City, State, Zip, Country | City, State, Zip, Country |
| Email Address (important) | Email Address |
| Telephone Number | |
| Blower Model | Circle one: |
| Serial Number | Commercial Use |
| Delivery Date | Private Use |
| DEALER INSPECTION REPORT | SAFETY CHECKS |
| Tire Pressure Check Model KB | All Decals Installed |
| Wheel Bolts | Review Operating and Safety Instructions |
| Belt Tension | |
| Lubricate Machine | Guards in Place |
| Fasteners Tight | Trailer assembly bolts properly installed and tightened |
| ALL 3 POINT HITCH MODELS: PTO | SHAFTS MUST TELESCOPE IN EVERY POSITION |
| I have thoroughly instructed the buyer on the above content, equipment care, adjustments, safe operation | described equipment which reviews the included Operator's Manual and applicable warranty policy. |
| Date | Dealer's Rep. Signature |
| The above equipment and Operator's Manual has been adjustments, safe operation and applicable warranty | en received by me and I have been thoroughly instructed as to the care, policy. |
| Date | Owner's Signature |
| PLEASE EMAIL TO BUFFA | LO TURBINE AT - service@buffaloturbine.com |

PLEASE EMAIL TO BUFFALO TURBINE AT - service@buffaloturbine.com Or fax to 716 592 2460

4.0 OPERATIONS

4.1 TO THE NEW OPERATOR OR OWNER

Buffalo Turbine Debris Blowers are designed to quickly and efficiently, blow away leaves, cuttings and other debris. The material is conveyed on a stream of high volume and velocity of air to remove it from the area of concern. When the material is removed, it gives a neat, professional look to the working area.

Many of the features incorporated into the machine are the result of suggestions made by customers like you. Read the manual carefully to learn to operate the machine safely and how to set it to provide maximum efficiency. The manual will take you step-by-step through your working day. By following the operating instructions in conjunction with a good maintenance program, your Blower will provide many years of trouble-free service.

Potential Mechanical Hazards while operating your machine:

Never operate the debris blower around others to prevent the possibility of being run over by equipment. Never ride on your debris blower to prevent the possibility of being thrown off the machine or hurt severely.

Potential Crushing Hazards while operating your machine:

Between Trailer Tongue and mounting hitch on towing vehicle Between each nozzle



WARNING:

This Product can expose you to chemicals including carbon monoxide and benzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

4.2 BREAK-IN

Although there are no operational restrictions on the Blower when it is used for the first time, it is recommended that the following mechanical items be checked:

A. Operating for first ½ hour

- 1. Re-torque all wheel bolts, axle nuts and trailer mounting bolts and nuts.
- 2. Re-torque all other fasteners and hardware.
- 3. Check set screw (nozzle pulley) to ensure it tightened.

B. Operating for first 5 hours

- 1. Re-torque all hardware and fasteners.
- 2. Check set screw (nozzle pulley) to ensure it tightened.
- 3. Go to the normal servicing and maintenance schedule as defined in the Maintenance Section of the manual.

4.3 PRE-OPERATION CHECKS

Efficient and safe operation of the Buffalo Turbine Blower requires that each operator reads and understands the operating procedures and all related safety precautions outlined in this section. A pre-operation checklist is provided for the operator. It is important for both personal safety and maintaining the good mechanical condition of the machine that this checklist is followed.

BATTERY MUST BE CONNECTED BEFORE OPERATION (DISCONNECTED FOR SHIPPING).

Before Operating the Blower and each time thereafter, the following areas should be checked off.

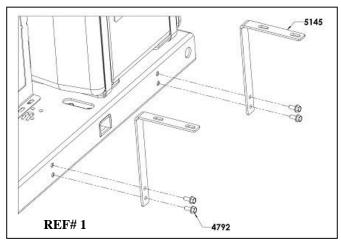
- 1. For fuel, oil, and operating information of the Vanguard Engine, refer to the Manufacturers specs included with this manual.
- 2. The Model CYC8K2 turf trailer is not designed for highway towing. For highway use or speeds above 15mph (24kph) an optional DOT approved trailer must be used.
- 3. Insure the Blower unit is attached to a proper receiver mounted on the towing vehicle. A pin hitch receptacle is standard with the model CYC8K2. Attach the CYC8K2 trailer using the proper size hitch pin with a locking presto pin.
- 4. Make sure all guards and shields are in place, secured and functioning as designed.
- 5. Check that all clamp bands are secure.
- 6. Check the belts and pulleys for proper tension and alignment.

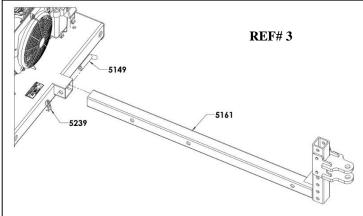
<u>CAUTION !</u> DO NOT ALLOW LEAVES OR DEBRIS TO ACCUMULATE ON OR NEAR THE ENGINE OR EXHAUST SYSTEM OF THE MODEL KB BLOWER, TRACTOR ENGINE OR ANY INTERNAL COMBUSTION ENGINE.

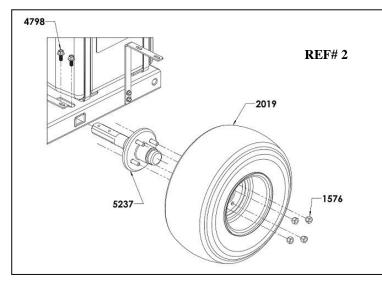
4.4 MODEL BT-CYC8K2 Assembly Instructions

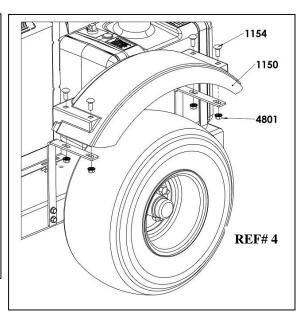
- 1. Fill engine oil to proper level. (overseas shipments)
- 2. Attach 2 Fender Brackets (part# 5145) with 2 bolts each (part# 4792). Tighten bolts. (REF#1)
- 3. Attach axle stub shaft assembly (part # 5237) using 2 bolts (part # 4798). Tighten bolts. (REF#2)
- 4. Attach the tongue (part # 5161) to the frame using the bent hitch pin (part # 5149) and clip pin (part # 5239) Note: The tongue is adjustable and will allow for multiple different heights. Determine the desired height before attaching the tongue. (REF#3)
- 5. Attach both fenders (part # 1150) using (4) 3/8-16 x 1" carriage bolts (part # 1154) and 3/8-16 flange nuts (part # 4801) (REF#4)
- 6. Recheck all mounting bolts to assure that they are tight.
- 7. Bolt on tires(part # 2019) . (REF#2)
- 8. Reattach positive battery cable (RED) and ground cable (Black) to proper terminals.

USE PRESTO PIN TO KEEP HITCH PIN IN PLACE WHILE OPERATING









4.5 FIELD OPERATION

- 1. Do not direct debris blower towards people, pets, autos, windows, etc.
- 2. <u>Starting blower unit</u>: Always start engine at a lower engine speed with nozzle pointed down or away. Turn Engine Key to ON postion and press Engine Start button on Transmitter.
- 3. The air stream direction is changed (in either direction) by pressing the nozzle buttons on the transmitter. The nozzle will stop turning by releasing the transmitter button. ALWAYS CHECK THE GROUND CLEARANCE WHEN OPERATING THE NOZZLE IN THE DOWN VERTICAL POSITION.
- 4. **Stopping blower unit**: Shut engine off above ½ throttle by turning key switch to off position to avoid engine backfire. Press Engine Stop button on Transmitter. **Make sure Keyswitch is turned off at the end of the day to prevent battery draining.**
- 5. Allow the blower fan speed to come to a complete stop before disconnecting from tow vehicle.

4.6 OPERATING RPM (ALL MODELS)

The manufacturer's engine section normally recommends the unit be run at a RPM that will insure efficient operation. The Blower can operate at a slower RPM if it can effectively move the debris. Increase engine RPM as needed.

Moving light material, such as dry leaves, requires much less wind than wet or heavier material.

Always try to blow with the wind. The Blower can be used for a wide variety of applications to move leaves, grass clippings, aeration plugs and debris. Drying wet areas has been another use with these powerful Debris Blowers.

4.7 STORAGE

At the end of the working season or before storing the blower unit, prepare the machine by following this procedure:

- 1. Select a storage area that is dry, level and free of debris.
- 2. Thoroughly wash the machine with a water hose to remove all debris and residue.
- 3. Run the machine at low RPM to dry the Blower Components.
- 4. Touch up all paint chips and scratches to prevent rusting.
- 5. Inspect for worn or failed components. Order the replacement parts and repair the blower unit when time allows. This will eliminate unnecessary down time at the start of next season.
- 6. Store in an enclosed building. If space is not available, cover with a waterproof tarpaulin and tie it down securely.
- 7. Store the machine away from areas of human activity.
- 8. Do not allow children to play around the stored unit.

5.0 BT-CYC8K2 Machine Specifications

Frame Size 24" wide X 36" Long
Length: 94" With nozzle installed and tongue
57.5" Skid model with nozzle installed

Width: 44" With axle and tires
Height: 34" With axle and tires

Weight: 336 lbs

Electrical System: 12 Volt battery / 180 CCA
Fuel Capacity: 1.5 Gallon Unleaded Fuel only

Input Power: 14HP Gas Engine
Outlet Size: Approximately 10"

6.0 MAINTENANCE SECTION

6.1 Maintenance Safety

- 1. Set Blower on a level surface, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before dismounting to service, adjust or repair.
- 2. Reinstall and secure all guards removed for servicing before starting to use machine again. *We recommend wearing gloves when removing or installing the guard to avoid getting cut*
- 3. Securely support machine with blocks or safety stands when changing tires or working beneath it.

6.2 Fluids

Change oil per Manufacturer's specification (see Engine owner's manual section).

6.3 SERVICE CHECKLIST

See Lubrication and Maintenance sections for details of service. Copy this page to continue record.

TURN OFF ENGINE, REMOVE KEY & DISCONNECT BATTERY BEFORE SERVICING BLOWER UNIT

| CODE: <u>LUBRICATE-(L) / CHECK-(*) / CHANGE-(C) / REPLACE-(B) / CLEAN-(CL)</u> |
|---|
| SCHEDULED MAINTENANCE HOURS |
| SERVICED BY |
| MAINTENANCE |
| 8 hrs or daily |
| (*) Remove all debris that has settled between the blower wheel fan and the stationary vanes. |
| Helps maintain peak performance. |
| (*) Check engine oil and fill to proper level – Do not overfill |
| (*) Check air filter and precleaner |
| (CL) Clean debris from air intake and other cooling areas on the engine |
| (*) Check tire pressure (Max. 50 PSI) |
| (*) Check Clamp Band Bolt for tightness |
| 40 hours or weekly |
| (*) Inspect battery terminals for any corrosion, broken wires, or loose connections. |
| (*) Remove Battery and clean debris from inside of battery box |
| (*) Check set screw (nozzle pulley) to ensure it is tightened |
| (*) Wash and Clean any dirt or grime build up that has accumulated on blower wheel |
| fan blades. Helps to minimize vibration balance and maintain peak performance. |
| 200hrs or annually (CL) Machine |

DO NOT OPERATE BLOWER UNIT WITHOUT GUARDS SECURELY ATTACHED

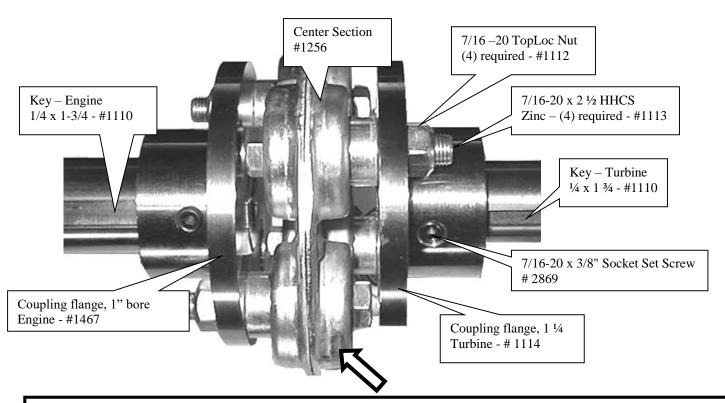
INSTALLATION INSTRUCTIONS & PARTS FOR THE MOREFLEX COUPLING

PART # 1747 - COUPLING COMPLETE

Includes PN 1110(2pc), 1112(4pc), 1113(4pc), 1114(1pc), 1467(1pc), 1256(1pc), 2869(4pc)

ALIGNMENT OF TURBINE SHAFT WITH SHAFT OF ENGINE IS CRITICAL

- Install keys in both shafts.
- 2. Slide coupling flanges on both shafts (engine and turbine shafts)
- 3. Place Moreflex coupling CENTER SECTION between coupling flanges and secure with 4 bolts and TOPLOC nuts. The bolt heads are positioned against the coupling in alternating directions. <u>Tighten all</u> 4 bolts. DO NOT TIGHTEN SET SCREWS AT THIS TIME.
- 4. Check key for proper position under the set screw hole on both shafts.
- 5. Place several drops of Loctite 271 into these two holes <u>only</u>. <u>Set screws and tapped screw holes must</u> be free of dirt and oil for Loctite to work properly.
- 6. Install the set screws over the keys and tighten firmly.
- 7. Using a drill point, dimple each shaft through the other 2 set screw holes. Clean drill chips, oil and dirt before applying Loctite.
- 8. Place several drops of Loctite 271 in these 2 holes.
- 9. Install and tighten set screws in these 2 holes.
- 10. Check and retighten the 4 bolts that hold the coupling center section in place.
- 11. Visually inspect the unit and replace the guard. <u>DO NOT OPERATE WITHOUT THE GUARDS IN PLACE</u>.

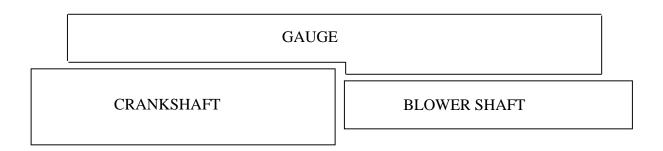


Part # 1256 (center section) is a <u>"WEAR"</u> item that should be visually checked each time the engine oil is changed. This coupling is equipped with special lock nuts. Occasionally check that all 4 nuts are securely fastened. LOOK FOR CRACKS IN THE RUBBER COMPOSITION THAT SURROUNDS THE 4 BUSHINGS. <u>Replace the center section</u> <u>when the rubber composition begins to show ANY signs of cracking OR an increase in vibration OR unusual sounds. When in doubt, call our Service Department.</u>

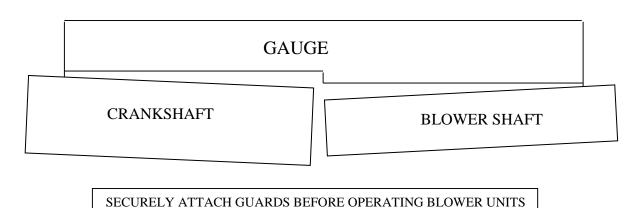
MOUNTING BLOWER ASSEMBLY ONTO FRAME AND ALIGNMENT RECOMMENDATIONS

- 1. Install blower assembly onto frame and tighten all of the bolts.
- 2. Remove all burrs and oil from the shafts and keyways (engine and blower shafts).
- 3. Using the supplied gauge, align the shafts parallel to each other (very important).
- 4. Check in four places around the shafts at 90° to each other.
- 5. When properly aligned, gauge should have little to no gap between itself and the shafts at any point along the gauge.
- 6. To adjust, move the engine. The 2 mounting brackets have tapped holes in each corner to help support and adjust the position of the engine. The 4 roll pins may need to be repositioned after alignment is completed and bolts are tightened.
- 7. Tighten all engine bolts and recheck alignment. Drill and install 4 roll pins in new position.

ACCEPTABLE



NOT ACCEPTABLE



(5345)(5161 5339 5266 (5149 5239 4808 (5387 *NOT ALL HARDWARE/WIRING IS SHOWN (5210)4810 (12-1119) (12-5389) (5340)3398 (5303) (5171 (4792) (5170) 4838 5298 5341 (5196 1145 12-3840 12-4935 4792 5237 (2019) (5167 (1576) 1154 4801 5145 1150

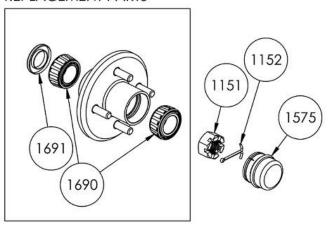
BT-CYC8K2 PARTS REFERENCE

(BEGINNING W/ SERIAL #41246)

4088

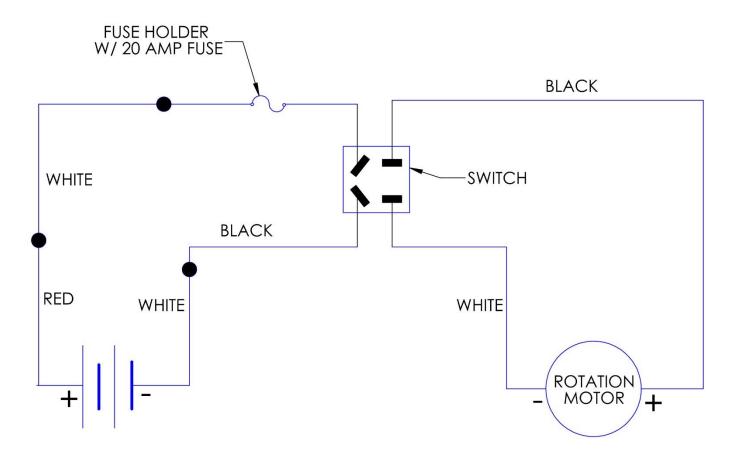
BT-CYC8K2 SUB ASSEMBLIES PARTS REFERENCE

PN 1153 (HUB W/ STUD RISERS) REPLACEMENT PARTS



| HUB ASS | EMBLY PARTS REFERE | ENCE |
|--------------------|--------------------------------|------|
| Part # Description | | Qty. |
| 1151 | 1"-14 CASTLE NUT | 1 |
| 1152 | 1/8 X 1-1/2" COTTER PIN | 1 |
| 1575 | BEARING CAP | 1 |
| 1690 | 1-1/16 TAPER ROLLER BEARING | 2 |
| 1691 | SEAL | 1 |

WIRING SCHEMATIC CONTROL BOX



| | | BILL OF MATERIALS FOR BT-CYC8K2 | |
|------------|--------------|---|---------------|
| REF PAGE # | PN | DESCRIPTION | QTY |
| 12 | 1110 | KEY, 1/4 X 1-1/2 | 2 |
| 12 | 1112 | 7/16-20 TOPLOC NUT GRADE 5 ZINC | 4 |
| 12 | 1113 | 7/16-20 X 2-1/2 HHCS ZINC GRADE 5 | 4 |
| 12 | 1114 1130 | COUPLING FLANGE 1-1/4 BORE 5/16-18 X 3/8 SET SCREW | 1 1 |
| 14 | 1145 | SHEAVE AK32 X ½ (ROTATION MOTOR) | 1 |
| 14 | 1150 | PLASTIC FENDER | 2 |
| 14 | 1154 | 3/8-16 X 1 CARRIAGE BOLT ZINC | 8 |
| | 1156R | SERIAL TAG | 1 |
| | 1182 | 4 x 4 BT DECAL | 2 |
| | 1186 | CAUTION DO NOT OPERATE DECAL | 1 |
| | 1233 | AMERICA & SAFETY FIRST DECAL | 1 |
| 12 | 1256 | MOREFLEX CENTER SECTION | 1 |
| 12 | 1275 1467 | BLACK CABLE TIES 8" LONG COUPLING FLANGE 1" BORE | 5 1 |
| 14 | 1576 | %-20 LUG NUT | 8 |
| 12,14 | 1747 | MOREFLEX COUPLING COMPLETE | 1 |
| 14 | 2019 | 18" X 8 ½" X 8" 4PLY SAWTOOTH TIRE ON 8X7, 4-4 WHITE RIM | 2 |
| 12 | 2869 | 7/16-20 X 3/8" SOCKET SET SCREW | 4 |
| 14 | 3398 | ROTATION MOTOR, 12V, BI DIRECTIONAL | 1 |
| 14 | 4088 | HITCH ATTACHMENT WELDMENT | 1 |
| | 4117 | ½" CLEVIS PIN, 3" LONG | 2 |
| | 4725 | WARNING – COMBINED EAR /EYE PROTECTION & THROWN OBJECT DECAL | 1 |
| 14 | 4792 | 5/16-18 X ¾" SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 6 |
| | 4795 4797 | 5/16-18 SERRATED FLANGE NUT, GRADE 5, ZINC | 2 |
| | 4797 4798 | 3/8-16 x ¾" SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC 3/8-16 X 1" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 2 8 |
| | 4799 | 3/8-16 X 1-3/4" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 4 |
| 14 | 4801 | 3/8-16 SERRATED FLANGE HEX NUT, GRADE 5 , ZINC | 12 |
| 14 | 4808 | 1/4-20 X 3/4" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 4 |
| 14 | 4810 | ¼-20 SERRATED FLANGE HEX NUT, GRADE 5, ZINC | 4 |
| 14 | 4838 | LONG ROTATION MOTOR BRACKET | 1 |
| | 4917 | 5/16-18 x 1" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 10 |
| | 4989 | 5/16-18 X 1-1/4" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 2 |
| 14 | 5056 | MEDIUM RIVETS 1/8" DIA, ¼" GRIP | <u>2</u> 4 |
| 14 14 | 5145 5149 | FENDER BRACKET – BOLT ON 5/8 X 3" BENT HITCH PIN | 1 |
| 14 | 5161 | ADJUSTABLE TONGUE WELDMENT FOR KB7 SERIES | 1 |
| 14 | 5167 | PLASTIC NOZZLE | 1 |
| 14 | 5170 | ELBOW BASE RING BEARING | 4 |
| 14 | 5171 | BEARING BUSHING | 8 |
| | 5193 | %-28 X 3/4" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 3 |
| 14 | 5196 | FRAME | 1 |
| 14 | 5209 | FRONT ENGINE RAIL | 1 |
| 14 | 5210 | REAR ENGINE RAIL | 1 2 |
| 14 14 | 5237 5239 | STUB AXLE/ HUB ASSEMBLY, KB7 SERIES LOCKING COTTER PIN | 2 1 |
| 14 | 5266 | CARBURETED 14HP ENGINE | 1 |
| 14 | 5298 | BATTERY STRAP | 1 |
| 14 | 5303 | BATTERY TRAY | 1 |
| | 5304 | 5/16-18 X 1-1/2" LONG SERRATED FLANGE HEAD BOLT, GRADE 5, ZINC | 2 |
| 14 | 5339 | GUARD KIT | 1 |
| 14 | 5340 | COMPACT, POWERSPORTS-SIZED BATTERY 180CCA | 1 |
| 14 | 5341 | AX48 V-BELT | 1 |
| 14 | 5345 | JOYSTICK CONTROLLER ASSEMBLY | 1 |
| 14 | 5387 5544 | WIRED CONTROLLER EXTENSION BRACKET RED POSITIVE BATTERY CABLE | <u>1</u> |
| | 5544 5545 | BLACK NEGATIVE BATTERY CABLE | 1 |
| 14 | 12-1119 | BELLMOUTH | 1 |
| 14 | 12-5389 | RH BLOWER ASSEMBLY | 1 |
| 14 | 12-3840 | V-GROOVE BASE RING | 1 |
| 14 | 12-4935 | QUICK RELEASE CLAMP BAND | 1 |
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TALK WITH OUR EXPERTS

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> 180 Zoar Valley Road Springville, NY 14141

OPTIONS

NOZZLES



Aerospace Polymer Nozzle - Part# 2851 Standard Clamp Band - Part# 1173



ALUMINUM NOZZLES

Optional aluminum nozzles will not connect to the standard Aerospace Polymer Nozzle (Part# 2851). Requires: Two 45° elbow segments (Part# 1171) and two additional clamp bands (Part# 1173).

12" Nozzle Extension - Part# 1468 20" Nozzle Extension - Part# 1845

10" Round Nozzle - Part# 1417 12" Round Nozzle - Part# 1172 Improves air velocity with lower horsepower and hydraulic blower units



Flexible Nozzle Assembly - Part# 3345 Various lengths available. Ideal for rough terrain.



10" Rectangular Nozzle - Part# 1469 19" Rectangular Nozzle - Part# 1425

5.5"x15" opening - extra length/more concentrated air flow. Uses - heavy wet debris, plugs, top dressing. No ground clearance in the vertical down position.



Fishtail Nozzle - Part# 1743

5"x30" (wide angle) opening. Distributes a large volume of air at a lower velocity over a wide area. Easily converts blower into a "Greens Fan". Adaptable to all models. Not as effective at moving debris.



D.O.T. TRAILER

Part# 1613-D for 8000, KB4, EFI & Mega



2" BALL RECEIVER HITCH Part# 4605





FORK POCKETS

Part# 4552 Great for moving blowers around jobsites and bed mount / skid mount applications.



LINE DRIVER ATTACHMENT



CORDED CONTROL

Part# 2788 for KB4 Model Part# 2787 for Mega, Diesel Models



ROTATION BEARING KIT

Part# 3838 Increases rotation speed and reduces load on rotation motor.



QUICK CONNECT CLAMP BAND

Part# 4935 Quickly remove or add nozzle with the barrel style clamp band.



EXHAUST GUARD KIT

Part# 2988 Available for Model: KB





BUFFALO TURBINE PRODUCTS



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