## 

## Operator's Manual



## \& Parts Manual

## Thank you for purchasing a Harper Turbo Vac.

As with all Harper products, the Harper Turbo Vac has been developed through tough design and testing procedures to produce a machine that can be relied on. This manual gives assembly, operating, and service information for Model TV40 Turbo Vacs. Please read and understand all instructional material included with the Turbo Vac or its components before assembling and operating the equipment.

A Turbo Vac can present hazards to an operator who follows unsafe procedures in either the operation or maintenance of the unit. Therefore, SAFETY WARNINGS are presented at certain locations in the text.

## THIS SYMBOL:

## A safety warning: A

MEANING: Failure to understand and obey this warning may result in injury to you or others. Whenever this symbol is used, please pay very close attention to the information presented, and make sure you fully understand. If you do not, contact your dealer or Harper Industries, Inc. for clarification.

## SAFETY WARNING! <br> 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.

Harper Industries, Inc. is continually striving to improve the design and performance of its products. We reserve the right to make changes in specifications and design without thereby incurring any obligation relative to previously manufactured products.

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## LIMITED WARRANTY

The Harper Turbo Vac is warranted against defects in workmanship and materials for a period of TWELVE MONTHS from the original date of retail purchase to the original purchaser.

Harper Industries will repair or replace, at our option, any part which our examination shows to be defective. Warranty is limited to parts, labor and ground freight delivery of replacement parts. The user will pay freight charges for parts submitted under this warranty.

No product or part may be returned for warranty consideration without prior approval from Harper Industries.

This warranty does not apply to parts subjected to misuse, abuse, alteration, improper or inadequate maintenance, or normal wear (including belts and broom).

Gasoline engines are not covered under this warranty. Refer to manufacturer's warranty for specific warranty information. Harper Industries, its agents or representatives, make or imply no other warranties.

## Evaporative Emissions Control System Warranty

The evaporative emission control system is warranted for two (2) years. If any evaporative emission-related part on your equipment is defective in material or workmanship, the part will be repaired or replaced by Harper Industries Inc..

Your evaporative emission control system may include parts such as: fuel tanks, fuel lines, fuel line fittings, fuel caps, carbon canisters, canister mounting brackets, carburetor purge port connection, filters, vapor hoses, clamps, control valves, control solenoids, electronic controls, vacuum control diaphrams, purge valves, liquid/vapor separator and other associated components.

## RECORDS

Date of Purchase $\qquad$ / $\qquad$ 1 $\qquad$ _

Serial Number Machine $\qquad$

Serial Number Engine $\qquad$

Dealer's Phone $\qquad$

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Specifications

| Safety Features | Minimal dust generated, <br> quiet operation -90 dB |
| :--- | :--- |
| Blower Drive | Double V-belt drive with electric clutch |
| Blower Fan | $25^{\prime \prime}$ diameter abrasion resistant steel with <br> replaceable poly-liner <br> $111 / 2^{\prime \prime}$ shaft with self-aligned bearings |
| Blower Discharge | Access plate for inspection and easy liner replacement |
| Airflow | Re-circulated air system |
| Brush Drive | Hydraulic motor direct drive |
| Engine | 20 HP Kohler, gasoline |
| Hydraulics | Belt driven hydraulic pump |
| Hydraulic Oil | Terresolve EL 3068, bio-based, high performance, ISO <br> 68 -viscosity, severe service See Service Schedule |
| Main Frame | 11 gauge welded and reinforced steel tubing |
| Bearings | Greaseable sealed bearings |
| Hopper Capacity | 4 cubic yards |
| Wheels/Tires | 4-bolt wheels, $18.5 \times 8$ tires |
| Controls | Engine, blower \& brush controls on machine |
| Pick-up Brush | Option |
| Discharge | $12^{\prime \prime}$ Diameter $\times 52^{\prime \prime}$ replaceable brush |
| Tongue and Hitch | Adjustable tongue functions as pick-up height controller |
| Paint | Durable 2-part polyurethane |
| Dimensions | $135 "$ L x 64" W x 82" H |
| Weight | 1600 lbs. - 730 kg |

NOTE: Following publication of this manual, certain changes in standard equipment and/or options may have occurred which would not be included in these pages. Your Harper dealer is the best source for up-to-date information.


Hopper* - The hopper stores up to 4 yards of material.

Broom Motor* - The broom motor turns the broom clock-wise, throwing material forward and upward into the air stream.

Air Return* - Allows air to be put into the 'recirculating' effect which is common feature among all Turbo Vacs.

Hydraulic Reservoir - The hydraulic reservoir on a TV40RH has a 20 gallon capacity.

Hydraulic Pump - The hydraulic pump on the TV40RH is directly attached to the tractor PTO.

Blower Housing* - Surrounds the fan and is covered on the inside by a plastic liner.

Dump Cable* - Releases the hopper door.
Oil Cooler - The oil cooler prevents the hydraulic oil from over-heating. Always keep the fins free of debris.

Debris Flap* - Helps to keep vacuum concentrated to the ground and to direct the material from the broom into the suction.

Broom (optional)* - Assists material from the turf into the suction of the blower.

Jack Stand* - Supports the front of the Turbo Vac when it is not connected to a tractor. During operation, the jack stand must be up, with the wheel removed and in the transport location.

[^0]
## Safety Guidelines

- Use genuine factory parts or parts with equivalent characteristics, including type, strength and material. Failure to do so may result in product malfunction and possible injury to the operator and/or others.
- If hardware is not secure, or if some of the hardware is over-tightened, equipment failure may result, posing possible safety hazards.
- To prevent possible eye injury, always wear SAFETY GLASSES while operating equipment.
- Replace locknuts and locking screws if you can tighten them without feeling considerable resistance for several turns before they are completely tight. Replace them with factory authorized parts or their equivalent.


## Gasoline

## SAFETY WARNING! ! Gasoline is extremely flammable and can be highly explosive.

- Always use an approved container for gasoline.
- Do not allow open flames or sparks while performing maintenance or refueling.
- Never remove the fuel tank cap or add gasoline when the engine is running or while it is hot.
- Never fill the fuel tank indoors (fumes can collect).
- Wipe up spilled gasoline immediately and completely.
- Do not store gasoline in a room with an appliance that has a pilot light to where electrical appliances or switches may cause sparks.
- Always store gasoline outside, in a safety can (a can which has a flame
arrestor and pressure relief valve in pour spout).
- Gasoline fumes are heavy and will sink to the lowest point, collecting and becoming more and more hazardous. 1 part gasoline in 20 parts air will explode easily and violently.
- $\quad$ Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- Be certain to provide adequate ventilation if an engine must be run indoors - exhaust fumes are dangerous.


## Guards \& Shields

- Keep all safety devices in place.
- Replace all worn, damaged, unusable, missing or lost safety shields and guards before operating the equipment.
- Keep the equipment in good operating condition.


## Safety Decals

- If safety related or instructional decals become illegible or are removed, replace them immediately. New decals may be obtained from your local Harper Dealer.
- If you replace parts that have such decals attached to them, make sure the decals are replaced with current versions, and are on the replacement parts before the machine is operated again.


## Battery

 Batteries can produce explosive gas. Use extreme caution when working on the battery.

- Ventilate when charging battery or using in an enclosed space.
- DO NOT produce sparks from cable clamps, tools, or other sources; and DO NOT allow flames or smoking in the vicinity of the battery.
- $\quad$ Shield eyes when working near the battery.


## Equipment \& Controls

- Read and understand this manual.
- Altering this equipment in any manner which adversely affects its operation, performance, durability, or use will void the warranty and may cause hazardous conditions.
- Know the location and function of all controls and how to stop this equipment quickly in an emergency before you operate the equipment.
- Keep all nuts, bolts and screws tight to help ensure safe operation of this equipment.


## Towing

- If towing on the highway, tail lights and turn signals must be attached before towing.
- Use a safety chain when towing.
- Make sure jack stand is up.
- Tire pressure should be 30-32 psi.
- Make sure lug nuts are tight.
- Broom should be locked up so that it does not rub on the ground.


Broom is locked up when the lift handle is in the vertical position and the latch is in place.

## Hydraulics

## SAFETY WARNING!

 Escaping fluid under pressure can penetrate skin causing serious injury. To prevent serious injury or death:- Relieve pressure on system before repairing, adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks.
- Use wood or cardboard instead of hands when looking for leaks.
- Keep all components in good repair.
- Do not use any type of heat, (welding, soldering, cutting torch, etc) near pressurized lines.


## Before Operation

- Before operating this equipment, read and understand the Owner's Manual.
- Do not allow children to operate this machine.
- Tire pressure should be 30-32 psi. Make sure both tires have equal pressure.
- Wear approved eye and ear protection and other appropriate safety equipment while operating the machine.
- Make sure bolts holding tongue are secure and the jack is in the transport position. Use a safety chain.
- Engine governor settings are preset and should not be changed; any change can damage moving parts and void the warranty.
- Before starting the machine, visually inspect all nuts, bolts and other fasteners to see that they are properly secured. Nuts, bolts and other fasteners should be checked every 8 to 10 hours of operation for proper alignment and tightness.
- Replace damaged or missing safety decals.
- Replace locknuts and locking screws if you can tighten them without feeling considerable resistance for several turns before they are completely tight. Replace them with factory authorized parts or their equivalent.
- Make sure that all bearings or hinging parts are greased and or oiled properly. (See Service \& Maintenance Section for more information)


## During Operation

- Always keep a fire extinguisher near the Turbo Vac during operation.
- Keep clothing and all body parts away from rotating parts.
- Engine governor should not be changed; any change can damage moving parts and void warranty.
- When sweeping material into the machine, make certain there are no foreign materials such as rocks, cans, bottles or other hard materials included. Sweeping hard materials will reduce the life of the plastic liner in the blower housing.
- If a foreign object should strike the broom or blower mechanism and cause an unusual noise or vibration, shut the engine off immediately and allow it to come to a complete stop. Disconnect the spark plug wire from the spark plug from the power unit.
Do the following:

1. Inspect for damage.
2. Repair or replace any damaged parts.
3. Check for and tighten any loose bolts, nuts, fasteners or parts.

- Keep the engine area clean from debris and other accumulations to lessen the possibility of fire.
- Keep all safety shields and guards in place and in good working condition.
- If the Turbo Vac should become clogged, shut off the engine and allow it to come to a complete stop.
- Be sure to provide adequate ventilation if the engine must be run indoors - exhaust fumes are very dangerous.
- Hydraulic system operates under high pressure. Disable system prior to service.


## Operations

1. Obtain and wear safety goggles before operating.
2. Fill the tank with gasoline. (Refer to engine manual for gasoline specifics.)

## A SAFETY WARNING! !

 Gasoline is extremely flammable and can be highly explosive. See Safety Guidelines for more information.3. Make sure the vent valve on the gas cap is open. (If the cap is closed the engine will vapor lock and will not run.)

4. Attach the Turbo Vac to the tow vehicle. Be sure that the Turbo Vac is adjusted to the correct height. (Refer to adjustment section for information on setting the height.)
5. Run the dump cable to the tow vehicle to allow for convenient dumping. Attach with the pin provided to allow cable to break away from tow vehicle if it is not removed when unit is disconnected. This will help prevent any damage if the cable is forgotten.
6. Make sure that the blower and broom are disengaged.
7. For cold starting set the choke.
8. Turn the key switch to the start position and release as soon as the engine
starts. Do not turn the starter for more than 10 seconds
9. Once the engine is running, gradually move the choke lever to the off position and allow the engine to warm up. (When restarting a warm engine, it should not be necessary to use the choke lever.)
10. Move the blower switch located beside the engine tachometer to the "on" position.
Set the engine speed at 3200 RPM.

11. If the unit has a broom, lower it and slowly engage broom lever.

12. Begin normal operation.

## Stopping Operation

## A SAFETY WARNING! !

Do not leave machine unattended, or attempt any service or inspection unless the machine has come to a complete stop, the engine has been shut off, and the spark plug has been disconnected.

1. Shut off tow vehicle and set the park brake.
2. Turn off the blower switch and disengage the broom lever.
3. Shut off the engine and allow the machine to come to a complete stop.

## Unloading

## A SAFETY WARNING! !

 To reduce the risk of injury, do not stand near the back of the Turbo Vac while unloading.1. Find a suitable place to dump the collected material.
2. Pull dump cable. Hopper door will open and material will slide out.
3. Drive forward to allow all the collected material to escape hopper.

4. Door will swing shut and latch when it clears the collected material.

## Adjustments

## Broom height

The broom height needs to be adjusted so that the broom is touching the top of the grass.


The broom height is determined by the caster wheels that it rides on. The caster wheel is attached with bolts located in slotted adjustment holes.

## To adjust:

- Remove caster wheel mounting bolts.
- Adjust caster wheel to achieve desired broom height and tighten bolts.


Note: Brooms are originally 12 " in diameter. When the broom wears to 10 " the adjustment will not lower the broom enough for it to perform adequately and needs to be replaced. Part \# 973001

## Hopper Door Latch

Adjustment of the hopper door latch should never be necessary. If the hopper door won't latch or the hopper door does not seal against the hopper there are adjustments that can be made. There are shims that bolt on with the strike plate that can adjust the depth of the latch. It is possible to add or remove shims to make the door close properly.


## Height Adjustment

For best performance the Turbo Vac must be operating at the correct height. At the correct height the debris flap touches the top of the grass.


The height can be easily adjusted up or down by using the ratchet jack.


## Belt Tension

If the blower drive belt needs it is adjusted by sliding the motor.

## To Adjust:

- Loosen engine mounting bolts from underneath.
- Adjustment bolts are tightened to slide motor and increase belt tension
- Tighten engine mounting bolts



## Hose Option (900217)

1. Open the Hose Door by loosening the wing nut and swiveling the door down to the next notch.

2. Close the Flap. This blocks off air intake from underneath and creates suction in the hose.

3. Begin using hose.


## Stopping Operation

1. Move the flap lever to the open position.
2. Close the hose door.
3. Store hose in cavity between hopper and frame.


Flap Adjustment

- If there is not adequate suction at the hose make sure the flap is closing completely (a small gap will work because the vacuum will suck it shut). If there is a big gap, the flap may need adjusted. Loosening the adjustment nut will shorten the flap lever causing the flap to close tighter.



## Edge Brush Option (900216)

- Follow instructions in Parts Section for installation of Edge Brush Option.
- The edge brush kit is used for cleaning areas along fences and curbs, etc., that are difficult to reach with the Turbo Vac broom.
- The edge brush can be adjusted vertically and horizontally, as well as rotated at an angle, so that debris is thrown into the Turbo Vac broom. For best results, angle the front edge of the brush downward.
- The stop chain is used to adjust the height of the brush during operation and to hold it up during transport.
- Never allow the brush to rest com pletely on the ground during operation.


## SAFETY WARNING!

The Turbo Vac should never be transported with the edge brush in operating position. Always use the stop chain to suspend the brush during transport.


Contact your Harper Dealer for more information about optional equipment, or see the Harper Industries website at:
www.harperindustries.com

## Service \& Maintenance

## A safety warning! A

- Before servicing or inspecting the Turbo Vac, make sure the power source is shut off and all moving parts have stopped.
- Disconnect the spark plug wire from the spark plug or the negative battery cable to prevent the engine from being turned on accidentally during service.
- Always wear safety glasses and protective gloves when servicing the Turbo Vac.


## Blower Liner

## A IMPORTANT!

Regularly check the BLOWER LINER in the blower housing for wear. Failure to maintain blower liner may result in damage to the blower housing.

To check Blower Liner:
Remove access panel.


Check white plastic liner located around the inside walls of the blower housing around the blower fan.


If liner is damaged or worn through; replace to avoid damage to blower housing. Part \# 972009 or 972021 for a heavy duty urethane liner.

NOTE: Blower liner is a wear item and is not covered under warranty. Sandy conditions may shorten the life of the blower liner.

## Screens

Periodically check the return air screens located in the hopper for excess buildup. Excess buildup can reduce performance and or negate the return air system causing an increase of dust.


To Clean Main Screen: Remove the two pins holding it in place. The screen will then swing down and can easily be cleaned out.

Service \& Maintenance.
Grease Locations


## 1. Hopper Door Latch Mechanism

The two latches and three shoulder bolts should be periodically oiled to prevent rusting and ensure proper operation.

## 2. Blower Shaft

The two grease zerks located on the shaft bearings should be greased every 10 hours. To access these bearings the front safety shield must be removed.

## 3. Broom Bearings, Pivot Arms \& Wheel

 The grease zerks located on the ends of the broom shaft, the pivot arms and the caster wheel should be greased every 10 hours. The pivot arm grease zerks are accessed through a hole in the frame.
## 4. Ratchet Jack

There are two grease zerks on the ratchet jack that should be greased annually.

## Service Schedule



## Troubleshooting

Engine:

| Problem: | What to Check: |
| :---: | :---: |
| Engine will not start | - Improper control settings <br> - Engine may be low on fuel <br> - Engine may be low on oil <br> - Battery charge may be too low <br> - Possible internal problems <br> - Make sure engine is primed with gas from the manual primer bulb |
| Problem: What to Check: |  |
| Engine shuts off during operation | - Engine may be low on fuel <br> - Engine may be low on oil <br> - Air filter may be clogged |

## Vacuum:

| Problem: | What to Check: |
| :---: | :---: |
| Turbo Vac won't sweep up material | - Hopper may be full <br> - Turbo Vac may not be close enough to the ground <br> - Air screens in hopper may be plugged <br> - Nozzle may be plugged <br> - Door for hose option may be closed |

# Parts Section 



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TV 40H ELECTRICAL SCHEMATIC











FINGER ROTOR PART NUMBER： 900225
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11067111060 N 110641 共 110670




| $\begin{aligned} & \text { HARPER } \\ & 902156 \end{aligned}$ | TUR日号 |  |
| :---: | :---: | :---: |
|  | 902084 |  |
| TV4D |  |  |
| 902086 |  |  |
| RIGHT SIDE |  |  |
| $\begin{aligned} & \text { HARPER } \\ & 902156 \end{aligned}$ | P TURBロ | VAC |
|  | Turf Sweeper 902084 | － |
| $\bigcirc$ TV4口 |  |  |
| 902085 |  |  |


|  | PART \# | QUANTITY | DESCRIPTION |
| :---: | :---: | :---: | :---: |
|  | 102022 | 1 | COVER, VINYL 5/8" X 4 3/4" |
|  | 110069 | 6 | WASHER, 5/16" FLAT SAE |
|  | 110174 | 16 | NUT, 1/4-20, UNITORQUE LOCK |
|  | 110311 | 2 | CLAMP, HOSE \#912 8.00" |
|  | 110327 | 5 | NUT, 5/16 WING |
| /4 | 110423 | 2 | BOLT, 5/16-18 X 1.0 |
| , | 110427 | 4 | BOLT, 5/16-18 X 2.5 TAP |
|  | 110451 | 4 | BOLT, 1/4-20 X .5, MSTRUSS HEAD |
|  | 110561 | 6 | BOLT, 1/4-20 X . 75 |
|  | 110600 | 2 | NUT, 5/16-18, UNITORQUE LOCK |
|  | 110623 | 1 | NUT, 5/16-24 |
|  | 110656 | 8 | WASHER, 3/8" FLAT SPECIAL |
|  | 110667 | 4 | WASHER, 1/4 LOCK |
|  | 110673 | 4 | WASHER, 1/4" FLAT STANDARD |
|  | 110674 | 2 | WASHER, 5/16" LOCK |
|  | 110731 | 1 | KEY, 1/8 X 1/8 X 1 |
|  | 110772 | 12 | SCREW, 1/4-20 X 1 SS PHILLIPS PAN HEAD |
|  | 211132 | 2 | BUSHING, . $625 \times .5$ |
|  | 510176 | 1 | COTTER PIN, 1/8 X 1 |
|  | 510460 | 1 | SET SCREW, 1/4-20 |
|  | 550046 | 1 | CLEVIS YOKE, 5/16-24 |
|  | 550048 | 1 | CLEVIS PIN, 5/16 |
|  | 902010 | 1 | HOSE, 8 INCH |
|  | 902113 | 1 | CLAMP, NOZZLE SWIVEL |
|  | 902114 | 1 | ADAPTOR, HOSE SWIVEL |
|  | 910044 | 1 | COVER, VINYL . $25 \times 1.5 \times 4$ GRIP |
| (0) | 970628 | 2 | FLAP PIVOT BLOCK |
|  | 970765 | 1 | BRACKET, NOZZLE SUPPORT |
|  | 970768 | 1 | CRADLE, REAR HOSE |
| Instaliation instructions: | 970769 | 1 | HANGER, NOZZLE HANDLE |
| 1. Remove bolts and plate covering hole in TV40 frame cut for hose option. | 970770 | 2 | RING, HOSE HANGER |
| 2. Thread $5 / 16^{\prime \prime} \times 21 / 2^{\prime \prime}$ bolts (4) into fasteners from inside out. | 970774 | 1 | SLIDE, HOSE OPTION |
| $5$ | 970775 | 2 | HANGER STRAP |
|  | 970779 | 1 | NOZZLE TUBE |
|  | 972018 | 4 | SPRING, COMPRESSION |
|  | 975132 | 1 | FRONT HOSE CRADLE WELDMENT |
|  | 975133 | 1 | SIDE HOSE ADAPTER WELDMENT |
|  | 975134 | 1 | NOZZLE HANDLE WELDMENT |
|  | 975608 | 1 | FLAP WELDMENT |
|  | 975609 | 1 | FLAP ARM WELDMENT |
|  | 975612 | 1 | FLAP HANDLE WELDMENT |
| 3. Lay slide door onto rear bolts and place hose adapter on top. <br> 4. Use a spring, flat washer and wing nut on each bolt (4). |  |  | Instruction Sheet 900217 |


FENCE BRUSH OPTION - TV40


## NOTES

Harper Industries, Inc.
Telephone: 620-896-7381
151 E. Highway 160
Harper, KS 67058
Website: www.harperindustries.com

Toll-Free: 800-835-1042
Fax: 620-896-7129


[^0]:    * Denotes common features of both the TV40RE and TV40RH

