LITTLE WONDER®

OPTIMAX

Self Propelled Maximum Output Blower

MODELS: 9270-12-59

GX270 HONDA SP

9390-12-59

GX390 HONDA SP

Owners Manual and Safety Instructions for OPTIMAX BLOWER

PARTS / SET UP MANUAL

MAN 910740
Rev. B
Original Language Instructions

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CALIFORNIA

Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **WASH HANDS AFTER HANDLING.**

LITTLE WONDER BLOWER

IMPORTANT MESSAGE

On behalf of everyone at Little Wonder, we would like to thank you for your purchase of a Little Wonder Gasoline Powered Optimax Blower. This professional blower was designed to the highest standards to ensure you many hours of uninterrupted service.

This manual provides the information necessary for safe and efficient operation and service. For your safety, it is critically important that you read and understand this entire manual before operating your blower.

LITTLE WONDER
SCHILLER GROUNDS CARE, INC.
1028 STREET ROAD, P.O. BOX 38
SOUTHAMPTON, PA 18966

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MANY USES:

The extreme versatility offered by Little Wonder's line of blowers makes them ideally suited for a wide variety of jobs; blowing leaves, grass clippings, thatch, blowing tennis courts dry, cleaning large driveways, stadiums, parking lots and other hard surfaces, precleaning roofs before repair and countless other jobs.

This Manual is part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

NOTICE !!!

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

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

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

This symbol means:
ATTENTION!
BECOME ALERT!

Your safety and the safety of others is involved.

Signal word definitions:

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

⚠DANGER

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

⚠WARNING

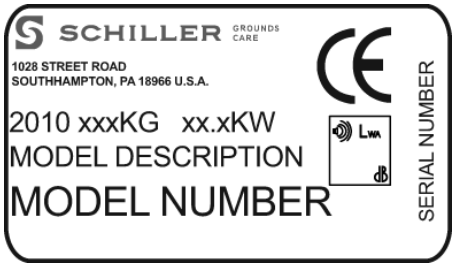
WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

⚠CAUTION

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

CAUTION

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



MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

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

MAINTENANCE SAFETY

In general

- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park machine on level ground.
- Never allow untrained personnel to service machine.
- Guards should only be removed by a qualified technician for maintenance or service.
- Adjust or repair only after the engine has been stopped and the fan has stopped moving.
- Disconnect spark plug wire(s) before doing any maintenance.
- Replace parts if worn, damaged or faulty. For best results, always replace with parts recommended by the manufacturer.
- Do not dismantle the machine without releasing or restraining forces which may cause parts to move suddenly.
- Provide adequate support, e.g. jack stands for lifted machine or parts if working beneath.
- Do not put hands or feet near or under rotating parts.
- Clean up spilled oil or fuel thoroughly.
- Replace faulty mufflers.
- To reduce fire hazards, keep the engine, muffler, and fuel storage area free of grass, leaves, debris buildup or grease.

Fans

Do not straighten or weld fans. Replace damaged or failed fans..

Fuel

- Gasoline (petrol)) and diesel fuels are flammable; gasoline (petrol) vapors are explosive. Use extra care when handling.
- Store only in containers specifically designed for fuel.

⚠ WARNING

- When refueling or checking fuel level:
  - Stop the engine and allow to cool;
  - Do not smoke;
  - Refuel outdoors only;
  - Use a funnel;
  - Do not overfill;
  - If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.
  - Replace caps on fuel containers and tanks securely.

Sparks from static electricity can start fires or cause explosions. Flowing fuel can generate static electricity. To prevent static electricity sparks:

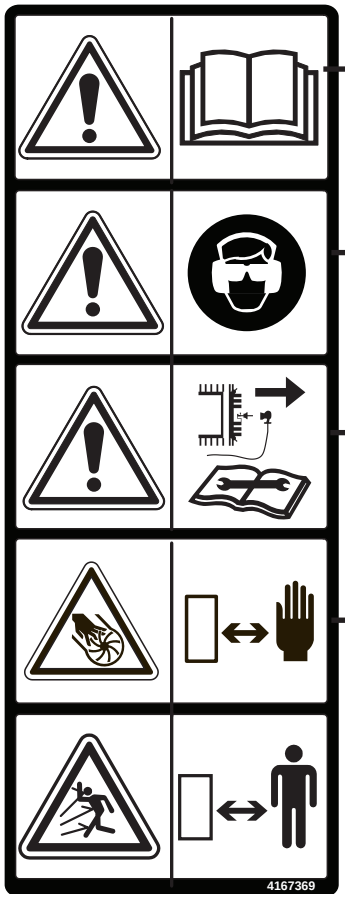
- Keep containers electrically grounded. Do not fill containers in a vehicle or on a truck or trailer bed with a plastic liner. Fill containers on the ground away from the vehicle.
- When practical, remove petrol (gasoline) powered equipment from the truck or trailer and refuel it on the ground. If equipment must be refueled on the truck or trailer, refuel from a portable container rather than a dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or container opening until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing change it immediately.

STORAGE SAFETY

- Stop the engine and allow to cool before storing.
- Drain the fuel tank outdoors only.
- Store fuel in an approved container in a cool, dry place.
- Keep the machine and fuel containers in a locked storage place to prevent tampering and to keep children from playing with them.
- Do not store the machine or fuel container near an open flame, spark, or appliance, such as a water heater, or a pilot light.
- Keep petrol (gasoline) storage area free of grass, leaves and excessive grease to reduce fire hazard.
- Clean grass and debris from cutting units, drives, mufflers and engine to help prevent fires.

SAFETY DECALS

An important part of the safety system incorporated in this blower are the warning labels found on the blower. Replace labels if damaged or illegible.



Read and understand the operator manual. Pay particular attention to all sections regarding safety. Store your owners manual in a safe place.

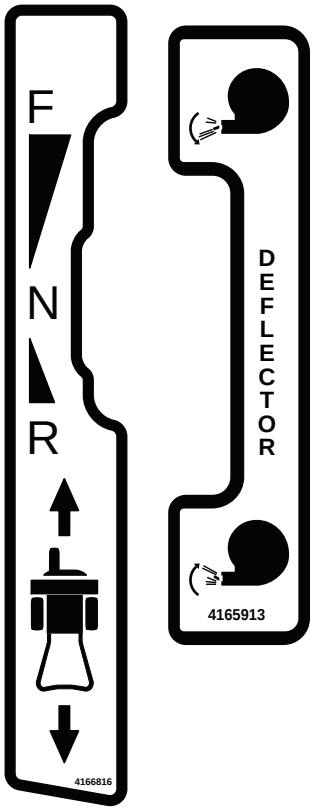
Wear eye and ear protection.

Before performing any service or maintenance, disconnect spark plug wire. Make sure engine switch is in the OFF (O) position.

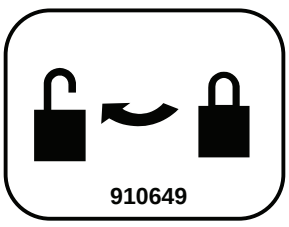
Caution:
Contact with rotating fan will cause serious injury. Keep hands away from air intake and discharge areas.

Caution:
Thrown objects.
Keep bystanders away.
Do not blow towards people or items that may be injured or damaged by flying debris.

Keep bystanders away.



Location of label.



LOCK OUT MECHANISM

SET-UP INSTRUCTIONS

1. Open box. Remove upper handle and cardboard insert.

2. Cut the back of the box open. Use lower handle to roll unit out of the box.

3. Locate hardware package.

4. Install upper handle to lower handle with (4) 3/8-16 x 1-34 carriage bolts and (4) 3/8-16 flanged nylon insert nuts from the hardware package. Tighten the nuts securely but not so much as to crush the tube. (Figure 1) NOTE: There are two handle height positions to choose from.

5. Route the throttle cable in front of lower handle crossbar. Install to the left side of the upper handle with (2) 10-32 x ½ thread forming screws from the hardware package. (Figure 2)

6. Ensure the center link of the chain is on the center tooth of the deflector sprocket before connecting the deflector cable. (Figure 3)

7. Route the deflector cable in front of the lower handle cross bar. Remove one of the nuts and the bolts from the end of the deflector cable and install the cable through the key slot into the bracket on the upper handle and reinstall nut and bolt. Move the clevis from the control lever and install over the end of the cable. Reconnect the clevis to the control lever with a ¼ x 5/8 clevis pin and hairpin cotter. (Note: The deflector can be moved and held in place with the locking knob to help connect the clevis fitting to the control lever. Move the control lever to the rear to more easily connect the cable. Loosen the knob so the deflector moves freely after the clevis is connected.) (Figure 4)

FIGURE 1

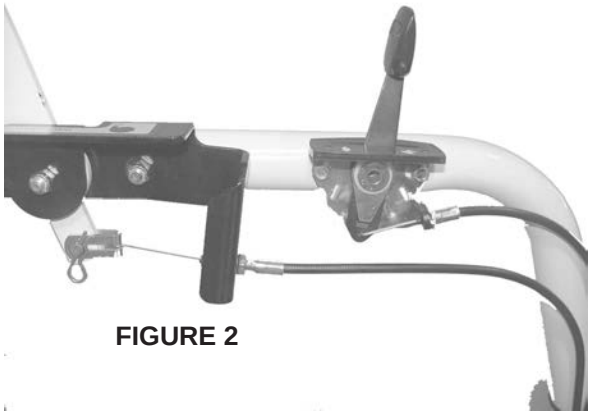


FIGURE 2

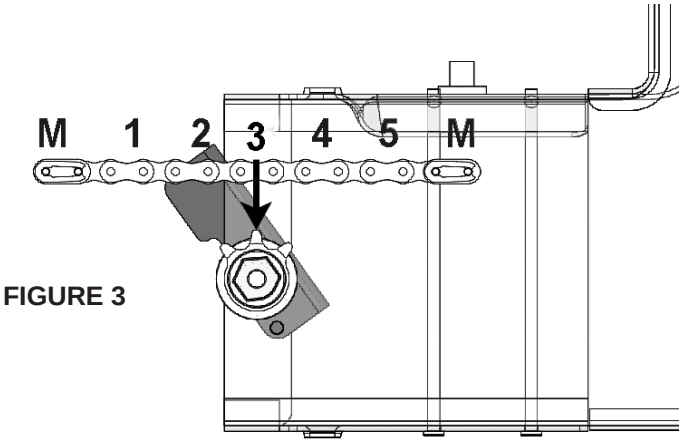


FIGURE 3

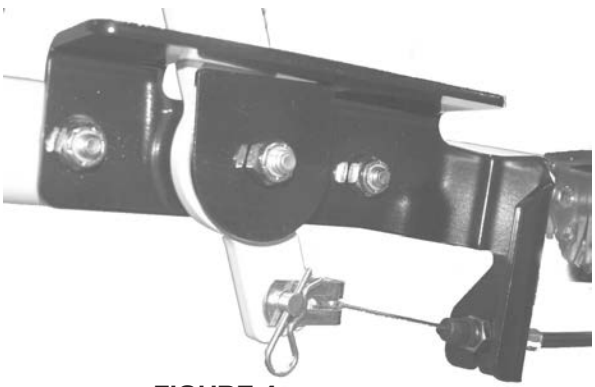


FIGURE 4

8. Move the deflector control lever to the front of the slot. Adjust the jam nuts on the cable fitting so the deflector is completely closed. Lock the nuts against the bracket when the adjustment is correct.

9. Secure the throttle and deflector cables to the handle tubes with cable ties from the hardware package. Trim off excess. (Figure 5)

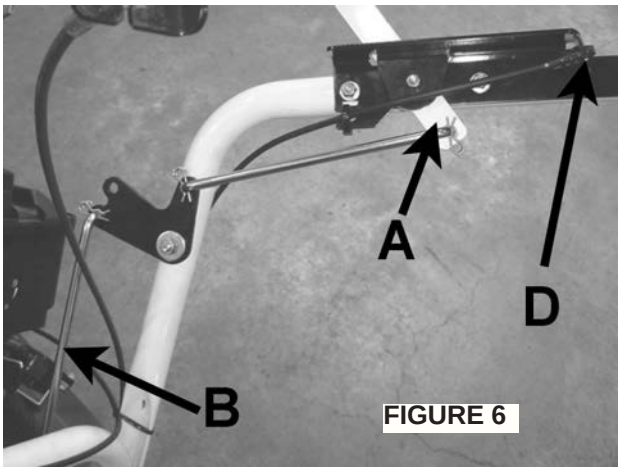
10. Move the speed control lever **A** all the way forward. Turn the vertical rod **B** into the swivel **C** on the speed control. Pull up on the rod **B** to move the speed control to its forward stop. Turn the rod in or out of the swivel unit it just goes into the pivot plate **E**. (Use the lower pivot plate hole for the upper handle position.) Secure the rod **B** to the pivot plate **E** with two hairpin cotters. (Figure 6 & 7)

11. Route the clutch cable up the front of the right handle tube and around the outside of the handle. Route as shown in Figure 6 and install the snap retainer **D** in the hole in the speed control bracket. (Figure 6) Lift the clutch bail to get sufficient slack to connect the Z-bend on the end of the clutch to the clutch bail. (If sufficient slack is not available, the bail may be squeezed together and removed from the handle to connect the Z-bend then reinstall. (Figure 8)

12. Secure the clutch cable to the speed control bracket and handle tube with cable ties as shown (Figure 6)

10. Fill the engine with oil to the level indicated on the dipstick. Fill the fuel tank with clean, fresh regular grade unleaded gasoline.

FIGURE 5



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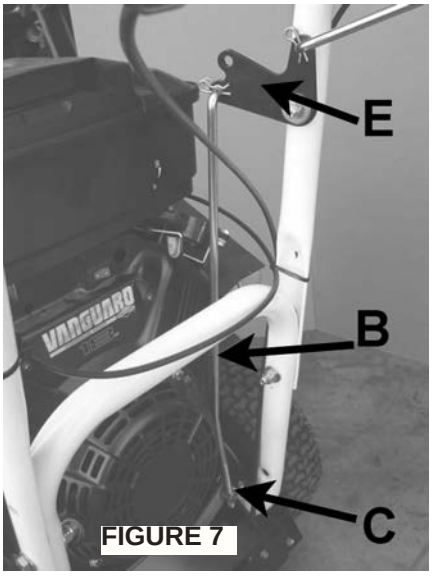


FIGURE 7

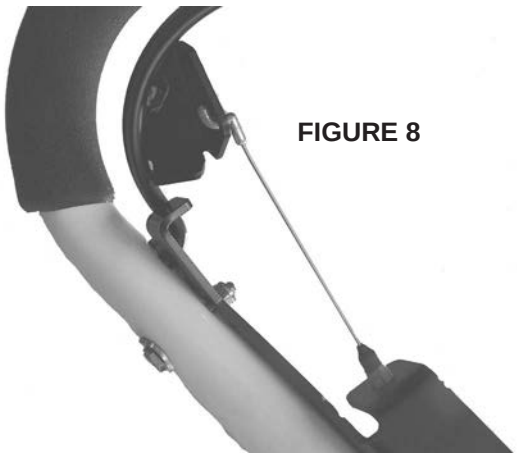


FIGURE 8

SWITCH (A)
Move to the “OFF” position to stop the engine. Move to the “ON” position before starting engine.

THROTTLE (B)
Controls engine speed and the amount of air being blown.

CHOKE (C)
Move to the “CHOKE” position to apply the choke. Move to the “RUN” position to remove the choke.

FUEL SHUT OFF (D)
Move to the “OFF” position to shut off the fuel whenever transporting the machine by trailer or truck or during storage. Move to the “ON” position before starting the engine.

REMOTE HORIZONTAL DEFLECTOR LEVER (E)
Move the lever forward to direct the flow of air down. Move the lever back to direct the flow of air up.

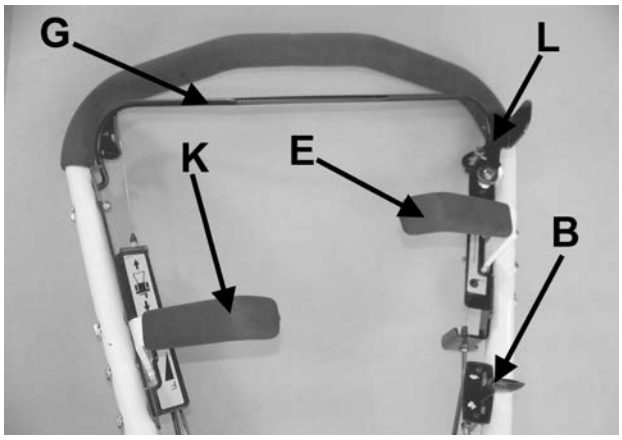
LOCKING KNOB (F)
Tighten the knob to lock the horizontal deflector in the desired position. Loosen to allow the deflector to be rotated with remote horizontal deflector lever.

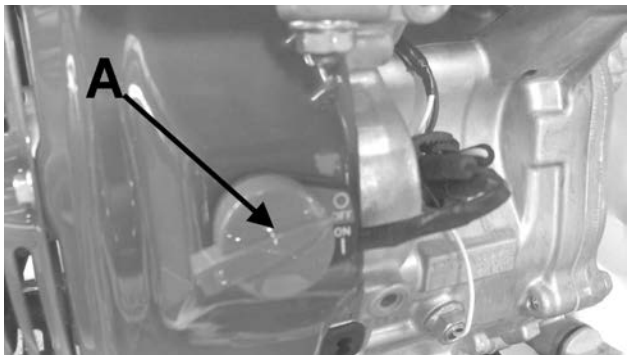
TRACTION CLUTCH BAIL (G)
Move the traction clutch bail towards the handle to engage the traction drive. This unit is equipped with a lockout mechanism **(L)** to prevent unintentional engagement of the traction drive. Rotate the latch of the lockout mechanism to clear the traction clutch bail. Release the traction clutch bail to disengage the traction drive. The latch of the lockout mechanism will need to be rotated clockwise to clear the traction clutch bail each time the traction drive is engaged.

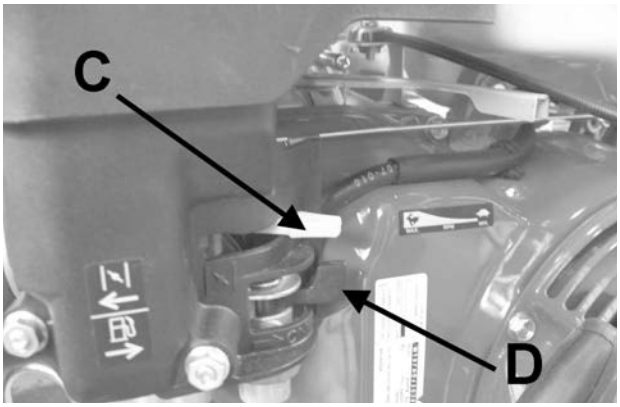
HORIZONTAL DEFLECTOR (H)
Directs air flow. Controlled by Remote Horizontal Deflector Lever **E**. May be locked in place with knob **F**.

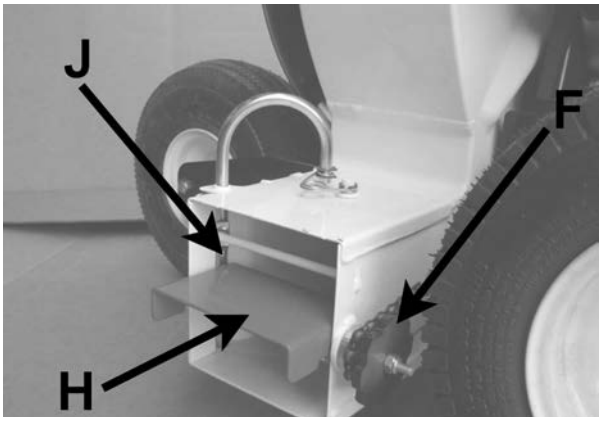
VERTICAL DEFLECTOR (J)
Rotate the deflector to direct air discharge forward or to the side.

SPEED / DIRECTION CONTROL LEVER (K)
Sets the speed and direction of the traction drive. Move forward from the neutral position for increasing forward speed. Move rearward from the neutral position for increasing reverse speed.









MAINTENANCE INSTRUCTIONS

Stop engine and remove the spark plug wire before performing any maintenance.

Keep blower air intake clear of debris for best performance.

Clear air discharge area of any debris accumulation. Ensure machine has been shut off and fan is no longer moving before clearing.

Keep all hardware tight.

Check oil level daily. Top off as needed.

Change engine oil after the first 5 hours of operation. Then change as recommended by the engine manufacturer.

1. Remove drain plug and drain oil while engine is warm.
2. Replace drain plug, remove fill plug and fill with new oil. See engine manual for oil specifications.
3. Start and run engine for 30 seconds. Stop engine.
4. Wait 30 seconds, then re-check oil level.
5. Top off if necessary. See engine manual for details.

Lubricate chains every 40 hours or weekly, whichever comes first. Use a teflon containing chain lubricant such as bicycle chain lube that does not attract dirt. Bicycle chain lube is available at any bicycle shop or most places where bicycles are sold. Slots **A** are provided in the chain covers to allow chain lubrication. Keeping the chains lubricated will greatly extend the life of both the chains and the sprockets. (Figure 1)

Lubricate the hex shaft/trunnion assembly once a season or if moving the speed/direction lever becomes difficult. A teflon containing lubricant such as bicycle chain lube is recommended. To lubricate the hex shaft the bottom cover must be removed and the unit tipped up and to the right until it rests on the housing. The bottom cover is held by two nuts on the rear of the unit. (Figure 2)

Take care not to get any lubricant on either the drive or the driven disc. Any lubrication on these parts will cause slipping of the friction drive. Clean off any lubricant that gets on the drive or driven parts.

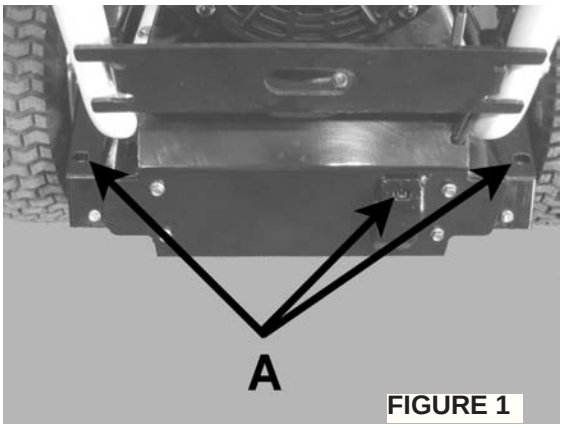


FIGURE 1

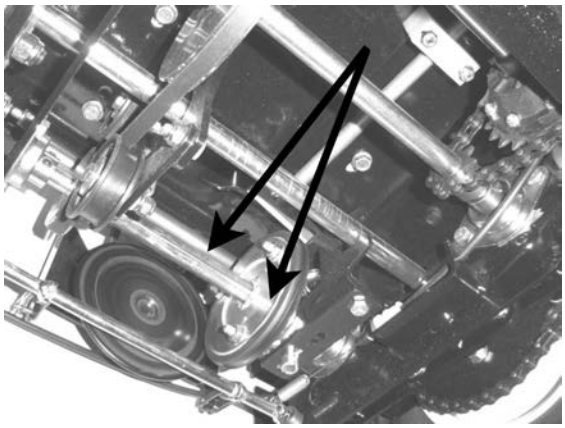


FIGURE 2

DEFLECTOR LEVER

If the horizontal deflector door moves during operation, tighten the deflector lever pivot bolt to increase the tension on the friction washers. just enough to keep the deflector in place. **DO NOT over tighten, the handle tube could crush.**

HORIZONTAL DEFLECTOR

Adjust the jam nuts on the cable fitting so the deflector door is completely closed when the deflector lever is moved all the way forward. (Figure 1)

DEFLECTOR CHAIN

The sprocket needs to be installed on the deflector as shown. The chain consists of 2 master links, 6 roller links, and 5 pin links. The middle pin link should be over the center tooth of the sprocket. (Figure 2)

If large amounts of adjustment are required, the chain can be moved one pitch on the sprocket to gain 1/2” of adjustment.

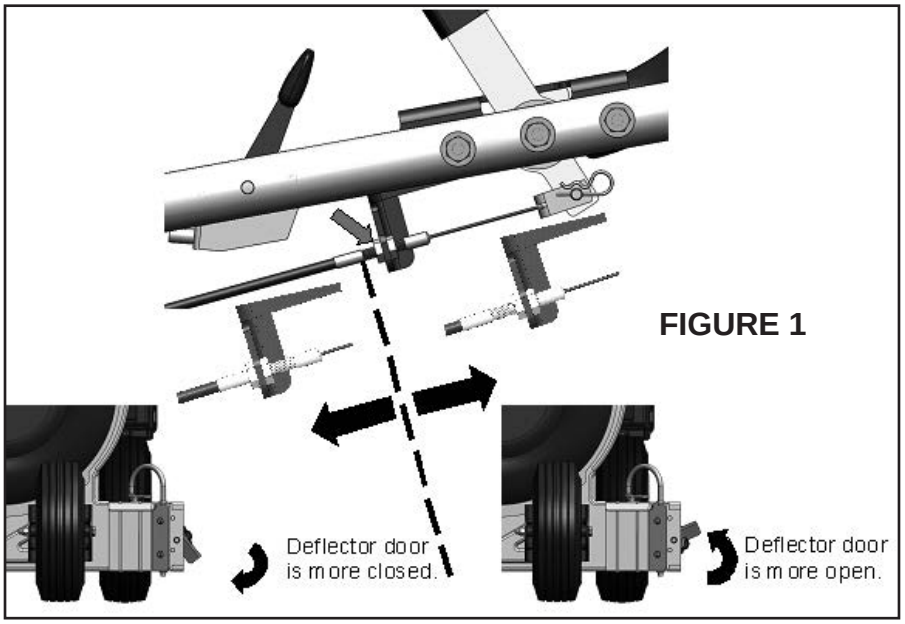


FIGURE 1

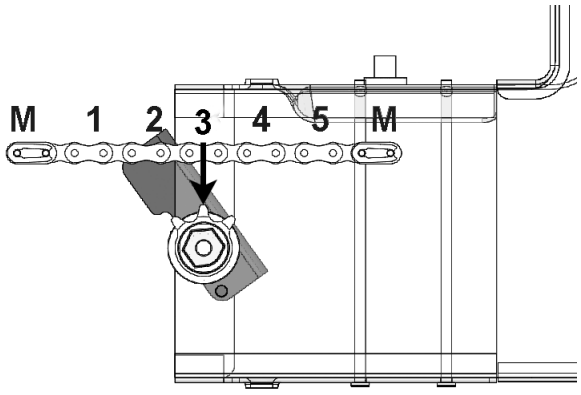


FIGURE 2

SPEED / DIRECTION CONTROL LEVER

If the speed/direction control lever moves during operations, tighten the s pivot bolt just enough to increase the tension on the friction washers to keep in place. **DO NOT over tighten, the handle could crush.**

VERTICAL SPEED CONTROL ROD

Disconnect the speed control rod **B** from the pivot plate. Move the speed control lever all the way forward. Pull up on the rod **B** to move the linkage against the forward stop. Turn the rod in or out of the swivel **C** until it just goes into the pivot plate **E**. (Use the lower pivot plate hole for the upper handle position.) Secure the rod to the pivot plate E with two hairpin cotters. (Figure 3)

HANDLE HEIGHT

Two handle height positions are provided. To move from one to the other, disconnect the speed/direction rod, then remove the four handle bolts. Reposition the handle to the other set of holes and reinstall the handle bolts. Adjust the vertical speed control rod to the new positions Reconnect the speed/direction rod. (Figure 4)

WHEEL CHAIN TENSION

If the wheel drive chain becomes too slack, the tension needs to be increased or it can run off the sprockets.

To adjust the tension, tip the machine to the right until it rests on the blower housing. Then loosen the nuts **A** on the carriage bolts securing the chain adjuster brackets on each side. Leave the center pivot bolt **B** tight. Once the carriage bolts are loose, support the rear of the machine with the wheels off the ground and move the adjuster brackets until the chain has 1/16" to 1/8" droop on the slack side with the other side tight. Both adjusters should be in about the same position. Tighten the nuts on the carriage bolts. If there is no more adjustment or the 2 sides are not in about the same position, replace the wheel chains. See wheel chain replacement. (Figure 5)

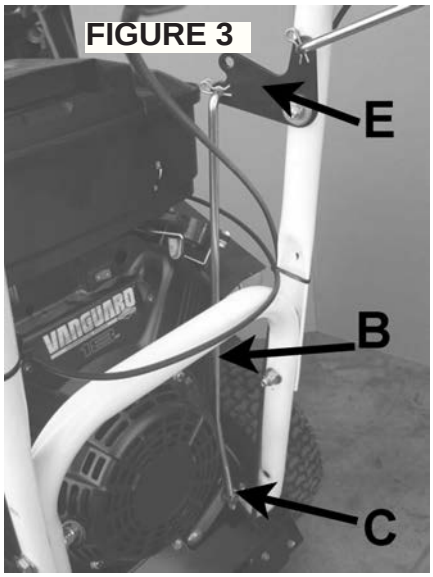


FIGURE 3

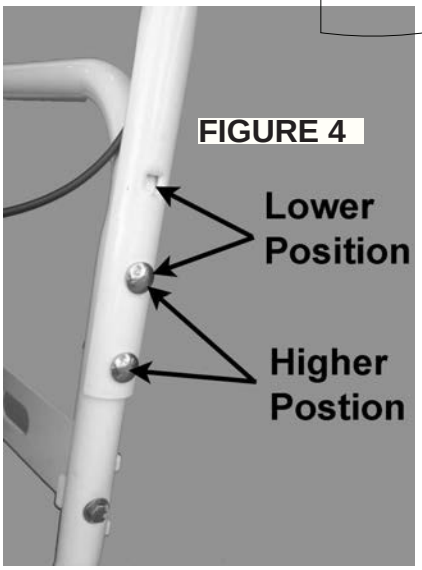


FIGURE 4

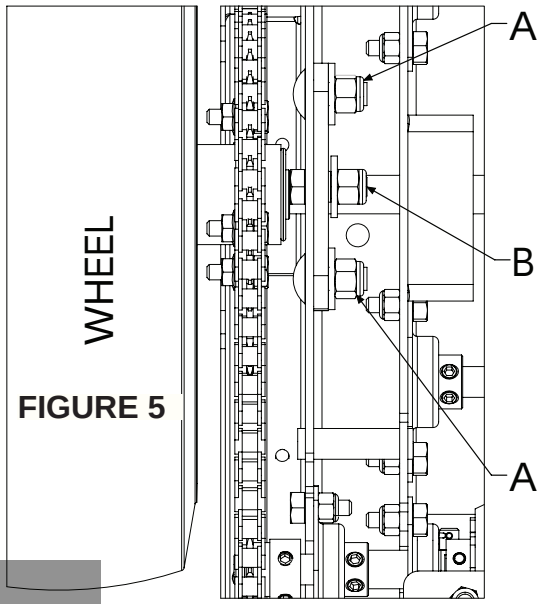


FIGURE 5

ENGINE- DRIVE DISC BELT

1. Remove front cover and fan from blower.
2. Move the deflector control lever all the way back. Disconnect the deflector return spring from the housing.
3. Remove blower housing from engine and engine deck.
4. Disconnect master links connecting drive disk mount to clutch shaft.
5. Remove nut holding drive disc to pivot pulley.
6. Remove the old belt. Check the idler pulley and drive disks. If there is any question about their condition, replace them.
7. Route the new belt around the drive disk pulley, engine pulley and the idler pulley as shown. (Figure 1)
8. Reassemble in reverse order.
9. Use blue thread locking compound when installing the housing to engine face bolts. Torque to 22-28 ft. lbs.
10. Use red thread locking compound when installing the fan bolt.

    Torque: 3/8-24 torque 30-50 ft. lbs.
    7/16-20 torque 50-90 ft lbs.

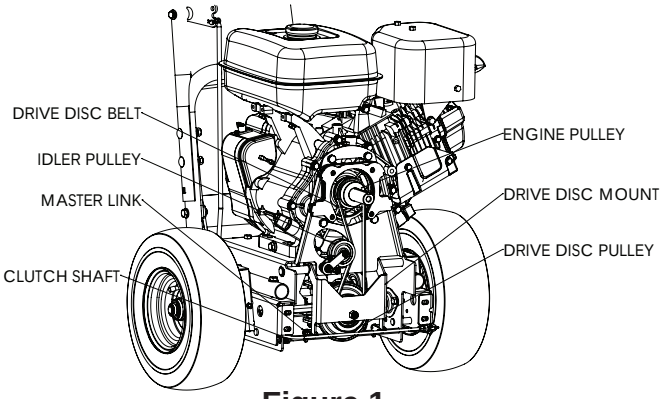


Figure 1

1ST STAGE REDUCTION BELT

Figure 2

1. Remove the wheel chain covers and wheel chains.
2. Remove the hex shaft per the Driven Disc Replacement section. If the driven disc is worn replace it.
3. Remove the drive wheels and axle.
4. Use the master link to disconnect the differential chain. Remove the differential chain.
5. Loosen and back off the setscrews **A** on the bearing adaptor on the sprocket end of the intermediate shaft.
6. Remove the mounting bolts **B** for the bearing on the pulley end of the intermediate shaft.
7. Slide the shaft **C** into the sprocket end bearing **D**. Work the old belt off between the pulley end bearing and the engine deck.
8. Inspect the chain, sprockets, and bearings. Replace worn parts.
9. Install the new belt between the bearing and engine deck.
10. Reinstall in reverse order. Be sure to put the belt around the hex shaft and axle before installing them. Check the installation for alignment of the pulleys. Install the axle between the trunnion anti-rotation tabs **E**.

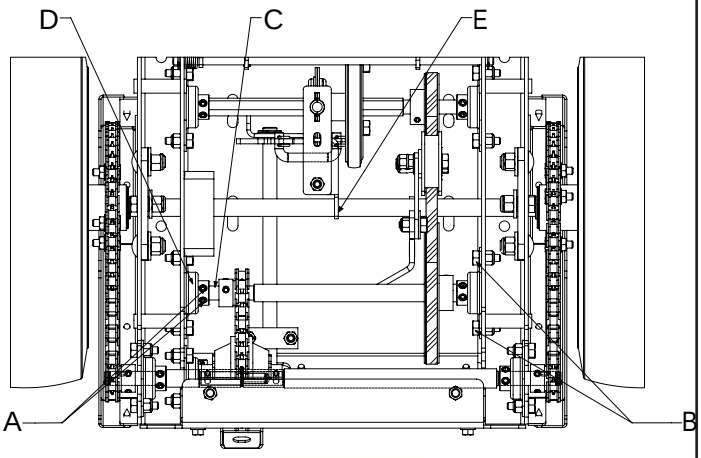


Figure 2

DIFFERENTIAL CHAIN

If this chain is worn or becomes too slack it must be replaced. There is no adjustment.

1. Remove the bottom cover.
2. Find and remove the master link.
3. Remove the old chain. Check the sprockets for wear. Replace if visibly worn.
4. Install the new chain with a new master link. Lubricate with teflon based chain lubricant, such as bicycle chain lube.
5. Reinstall the bottom cover.

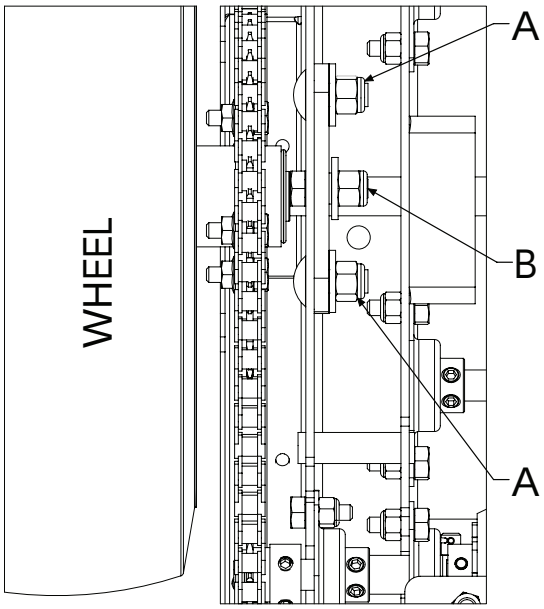


Figure 3

WHEEL CHAINS

If there is no more adjustment, the wheel chains need to be replaced. (Figure 3)

NOTE: Wheel chains need to be replaced in pairs to keep the adjustment even from one side to the other.

1. Remove the chain covers. Find and remove the master links and remove old chains.
2. Check sprockets for wear. Replace if visibly worn.
3. Tip the machine to the right until it rests on the blower housing.
4. Loosen the nuts **A** on the carriage bolts securing the chain adjuster brackets on each side. Leave the center pivot bolt **B** tight.
5. Once the carriage bolts are loose, set the machine back down and install the new chains.
6. Check and ensure the differential output sprockets and wheel sprockets are aligned. If necessary, use spacer washers to eliminate as much axial play as possible of the wheel on the axle.
7. Support the rear of the machine with the wheels off the ground and move the adjuster brackets until the chain has 1/16” to 1/8” droop on the slack side with the other side tight. Both adjusters should be in about the same position.
8. Tighten the nuts **A** on the carriage bolts.
9. Lubricate the chains with bicycle chain lubricant.
10. Reinstall the chain covers.

DRIVEN DISC REPLACEMENT

Figure 4

1. Disconnect the clutch cable at the clutch bail. If necessary the bail may be squeezed together to remove it from the handle to get enough slack. Move the speed control lever to neutral.
2. Drain the oil and fuel so the machine may be tipped.
3. Remove the front wheel bracket and inlet cover. Tip the machine forward onto the fan housing to gain access to the bottom side.
4. Remove bottom cover.
5. Remove the outermost hairpin cotter **A** on each end of the trunnion link rod **B**. Remove the trunnion link rod.
6. Loosen and back off the setscrews **C** on both bearing adaptors on the hex shaft.
7. Remove the bolts **D** holding the bearings on each end of the hex shaft to the engine deck.
8. Slide the pulley end bearing E toward the pulley to gain clearance to tip the shaft out of the engine deck. Remove the shaft assembly from the engine deck.
9. Slide the bearing **F** off the trunnion end of the shaft and remove the trunnion.
10. Replace the driven disc.
11. Reinstall in the reverse order. Be sure to put the belt around the hex shaft. Check the installation for pulley alignment with a straight edge.
12. Refill the engine with oil.

DIFFERENTIAL REPLACEMENT

1. If the shafts are removed or the differential needs to be replaced, the equivalent of one or two pumps of Bentonite (waterproof) grease must be put in the space where the shafts come together.
2. Install the shaft with the hollow end, then put the grease in the differential cavity and install the second shaft. (Figure 5)

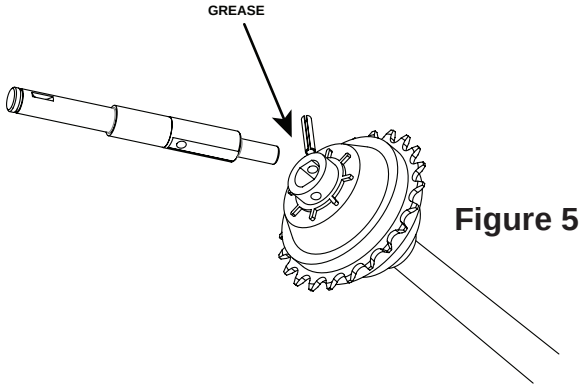


Figure 5

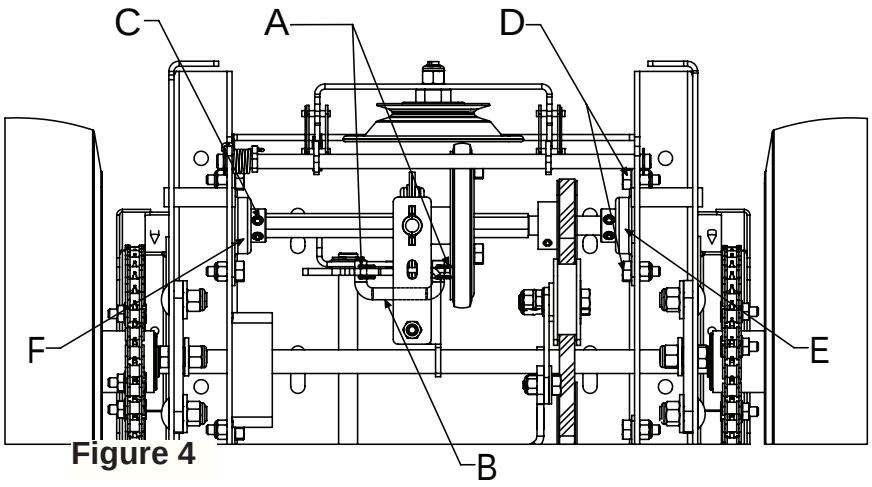


Figure 4

STORAGE

To prevent possible explosion or ignition of vaporized fuel, do not store equipment with fuel in tank or carburetor in an enclosure with open flame (for example, a furnace or water heater pilot).

Before the equipment is put into storage for any period exceeding 30 days.

1. Drain all fuel from the fuel tank and fuel lines.
2. Start the engine and run until all the fuel is used from the carburetor float bowl and the engine stops.
3. While the engine is still warm, drain the crankcase oil and replace with the proper weight oil corresponding to the season the equipment will be next used.
4. Remove the spark plug and squirt a small amount of engine oil into the cylinder. Slowly pull the starter a few times to distribute oil in the cylinder and reinstall the spark plug.
5. Check engine oil level and top off if necessary. See engine manual for details.

To put the equipment into service after an extended period of storage.

1. Check for loose parts and tighten if necessary.
2. Fill the fuel tank and then check the engine oil level.
3. Start the engine and check for fuel leaks. Repair any leaks before operating the unit.

TORQUE SPECIFICATIONS

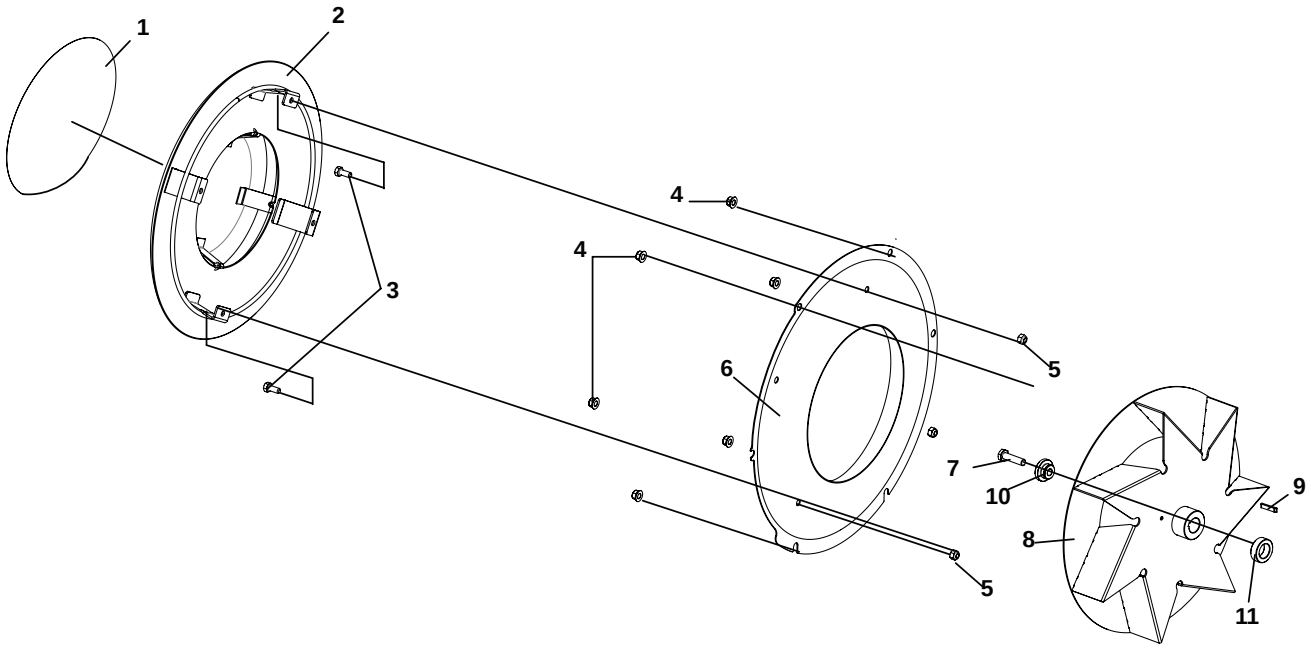
Location	Description	P/N	Min. Torque Ft-lbs (In-lbs)	Max. Torque Ft-lbs (In-lbs)
Housing to engine face	BLT-W LF 5/16-24 x 1-3/8	910517	22	28
Engine to deck	BLT 5/16-18 X 1-1/2	64262-009	19	25
Fan to Crankshaft	BLT-HEX 7/16-20 x 1-3/4 GR8 (USED ON 9270 MODELS)	64123-253	50	90
	BLT-HEX 3/8-24X1-3/4 GR8 (USED ON 9390 MODELS)	64123-127	30	50

PARTS SECTION

INTAKE GUARD ASSY

LITTLE WONDER BLOWER

FIGURE 1



ITEM	PART NO.	DESCRIPTION	QTY
1	4166183	LABEL-INTAKE GUARD	1
2	4165218.7	ASSY-GUARD INTAKE	1
3	64123-54	BLT-HEX 5/16-18X.75	4
4	64268-02	NUT-FL NYLON LOCK 5/16-18	6
5	64229-02	NUT 5/16-18	4
6	4165926.10	INTAKE PANEL-CENTER	1
7	64123-253	BLT-HEX 7/16-20 x 1-3/4 GR8 (USED ON 9270 MODELS)	1
	64123-127	BLT-HEX 3/8-24X1-3/4 GR8 (USED ON 9390 MODELS)	
8	4166730	WLDMT-FAN (USED ON 9270 MODELS)	1
	4166731	WLDMT-FAN (USED ON 9390 MODELS)	
9	64164-13	KEY 1/4 X 2 SQ	1
10	4163427	PLUG-FAN 7/16 X 1 (USED ON 9270 MODELS)	1
	4163424	PLUG-FAN 3/8 X 1.0 (USED ON 9390 MODELS)	
11	4165169	SPACER-FAN .53	1

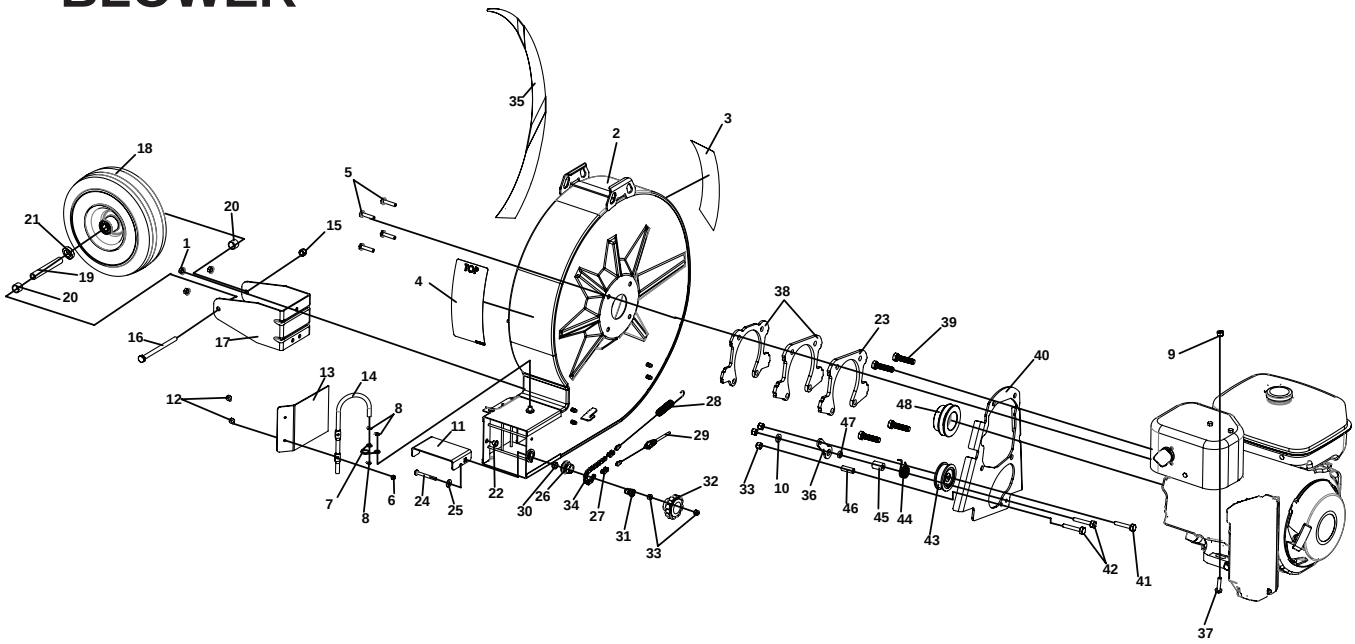
ITEM	PART NO.	DESCRIPTION	QTY

18

LITTLE WONDER BLOWER

HOUSING ASSEMBLY

FIGURE 2



ITEM	PART NO.	DESCRIPTION	QTY
1	64141-6	NUT 5/16-18	3
2	4166820	S-HOUSING SP BLOWER	1
3	4166187	LABEL-BLOWER SIDE	1
4	4167369	LABEL-WARNING/DANGER	1
5	910517	BLT-WLF 5/16-24 X 1-3/8	4
6	64151-31	LOCKNUT-10-32	2
7	910130	SPRING-DEFLECTOR	1
8	8-18	RING-RETAINING	3
9	64262-009	BLT-FLG HD 5/16-18 X 1 1/2	4
10	64163-34	WSHR.256/.267X1X11GA	1
11	4166182.17	DEFLECTOR-SIDE	1
12	64139-26	BLT-WLF 10-32X1/2	2
13	910123.10	DEFLECTOR-INT	1
14	910132	HANDLE-DEFLECTOR	1
15	64229-03	NUT-NYLON LOCK 3/8-16	1
16	64123-252	BLT-HEX 3/8-16 X 5-1/2	1
17	4165178.7	BRKT-FRT WHL	1
18	4164205	WHEEL-4.10/3.50X4	1
19	900404	SLEEVE-WHEEL	1
20	900405	SPACER-FRT WHL BRKT	2
21	4164204-01	BEARING-WHEEL	2
22	4166835	BEARING-SPLIT 5/16 IGLIDE	1
23	4165126.10	SPACER-ENGINE, 7GA	1
24	64123-284	BLT-HEX 1/4-20 X 2	1
25	64163-55	WSHR .328X.75X14 GA	2

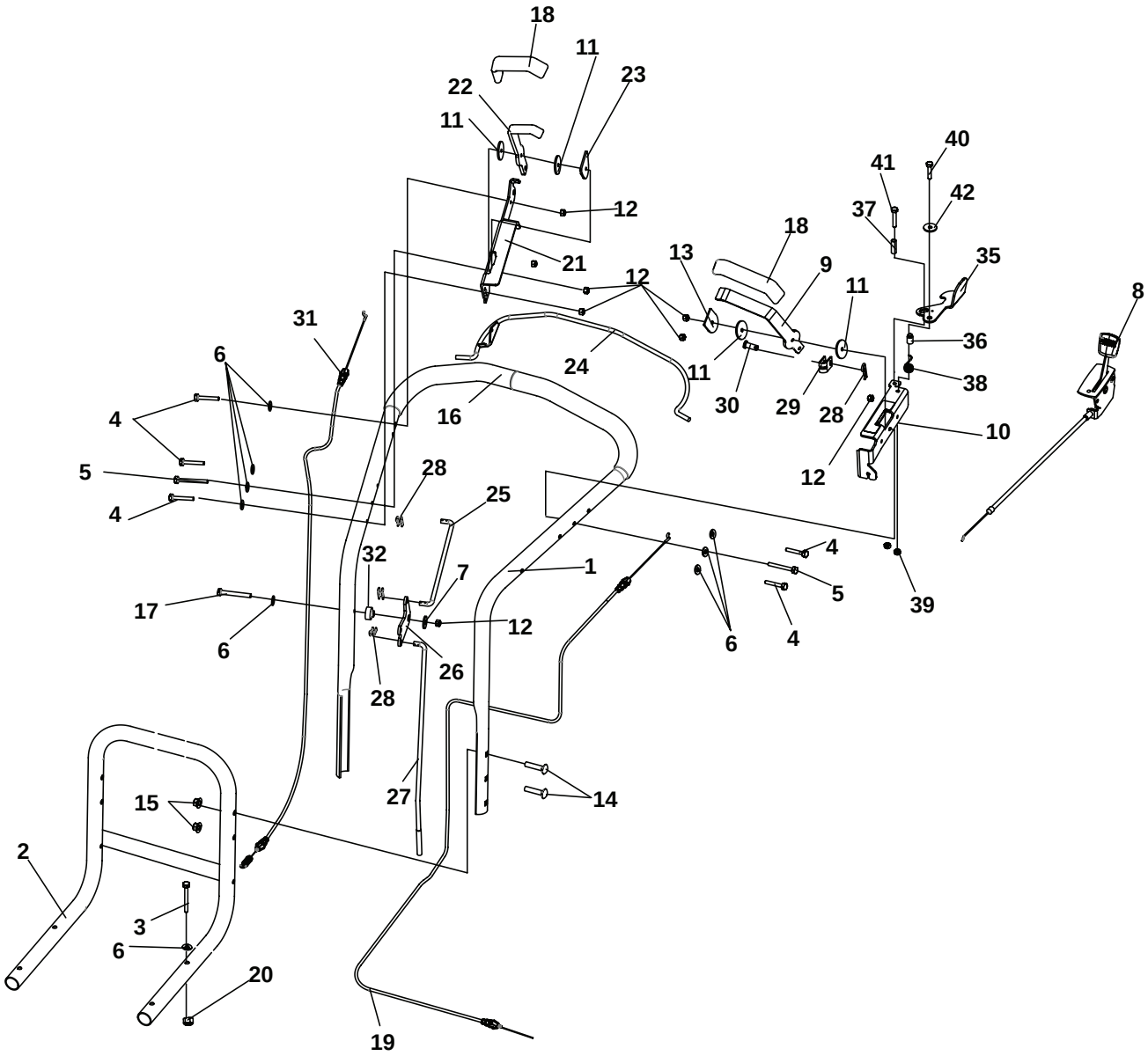
ITEM	PART NO.	DESCRIPTION	QTY
26	4166175	PIVOT-DEFLECTOR,OUTER	1
27	4165192	LINK-MASTER #43	2
28	4166616	SPRING SP,POST DEFLECTOR	1
29	4166617	CABLE-SP,PRE-DEFLECTOR	1
30	4166324-02	BEARING-SLEEVE	1
31	4166176	PIVOT-DEFLECTOR,INNER	1
32	4166460	KNOB-SP SPLITSTREAM	1
33	64229-01	NUT-NYLON LOCK 1/4-20	5
34	4166618	CHAIN-DEFLECTOR	1
35	4167331	LABEL-SCROLL	1
36	4165141.7	PLATE-IDLER ARM,ENG	1
37	64268-02	NUT-NYLON LOCK 5/16-18	4
38	4165125.10	SPACER-ENGINE, 3GA	2
39	64139-24	BLT-WLF 3/8-16X1	4
40	4165476.10	GUARD-BELT	1
41	64123-80	BLT-HEX 1/4-20X1-1/4	1
42	64123-105	BLT-HEX 1/4-20X1-5/8	1
43	4165119	IDLER-1.875 OD	1
44	4165144	SPRING-TORSION, IDLER	1
45	4165282	SPACER-0.265 X 0.563 X 0.830	1
46	4166753	SPACER-.259 X .75 X 1.125	1
47	4165281	SPACER-0.259X0.500X0.145	1
48	4165097	SHEAVE-ENGINE SP BLOWER	1

*NOT ILLUSTRATED

HANDLE ASSEMBLY

FIGURE 3

LITTLE WONDER BLOWER



LITTLE WONDER BLOWER

HANDLE ASSEMBLY

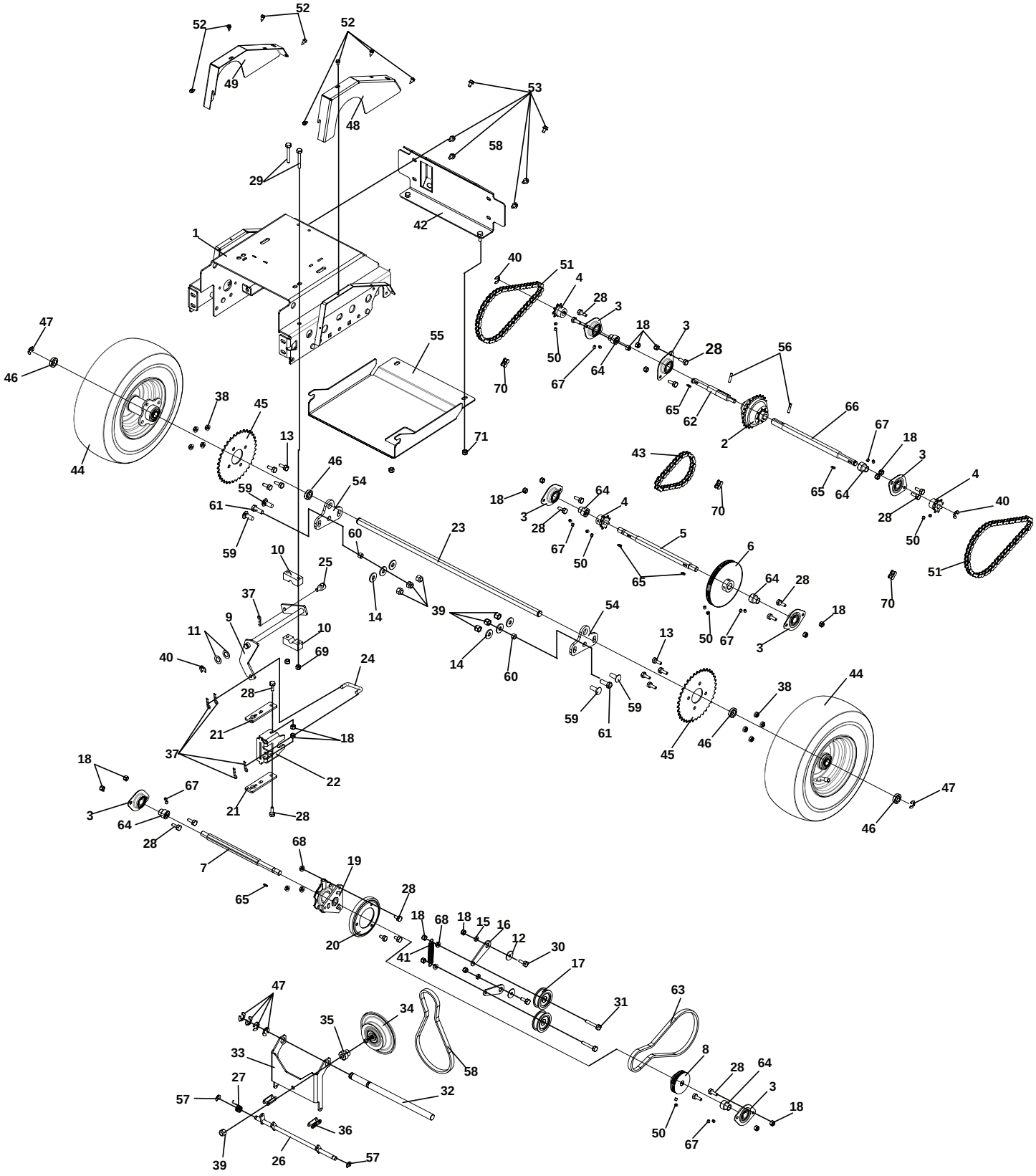
FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY
1	4166779	S-HANDLEUPPER W/ GRIP	1
2	4167557.10	HANDLE-BLOWER LOWER	1
3	64123-61	BLT-HEX 5/16-18 X 1-3/4	4
4	64123-283	BLT-HEX 1/4-20 X 1-3/4	5
5	64123-98	BLT-HEX 1/4-20X2-1/2	2
6	64163-55	WASHER-.531 x 2.00 x .125	12
7	64163-29	WASHER-21/64 X 1 X 11GA	1
8	4166170-01	CABLE-THROTTLE HONDA	1
9	4166778	S-LEVER, DEFLECT W GRIP	1
10	910163	S-BRACKET,LEVER MOUNTING	1
11	4165854	WASHER-UHMW PE	4
12	64229-01	NUT-NYLON LOCK 1/4-20	8
13	4165855.7	WASHER-ANTIROTATION	1
14	64018-5	BLT-CRG 3/8-16X1-3/4	4
15	64268-03	NUT-FL NYLON LOCK 3/8-16	4
16	4164632	GRIP-1-1/4 X 14	2
17	64123-12	BLT-HEX 5/16-18X2-1/2	1
18	4165987	GRIP-1/4X1X5	2
19	4166617	CABLE-PRE DEFLECTOR, SP	1
20	64229-02	NUT-NYLON LOCK 5/16-18	4
21	4166817	S-BRKT,SPEED CONTROL	1
22	4166819	S-LEVER-SP,RIGHT	1
23	4166330	WASHER-ANTIROTATION	1
24	4166331.7	WLDMT-TRACTION DRIVE	1
25	4166263	ROD-SPEED CONTROL HOR	1
26	4165084.7	PLATE-PIVOT, SPEED CONTROL	1
27	4166262	ROD-SPEED CONTROL VERT	1
28	64168-2	COTTER-HAIRPIN .08 X 1.19	7
29	4166457	CLEVIS-CABLE	1
30	64188-65	PIN-CLEVIS, 1/4 X .62	1
31	4165154	CABLE-BLOWER CLUTCH	1
32	4166808	BUSHING-SPACER	1
33*	4166816	LABEL-SPEED CONTROL	1
34*	4165913	LABEL-DEFLECTOR	1
35	910162	LATCH	1
36	910160	STANDOFF-CE SP BLOWER	1
37	4166753	SPACER- .259X.375X1.125	1
38	4165150	SPRING-TORSION, CLUTCH	1
39	64229-01	NUT-NYLON LOCK 1/4-20	2
40	64123-283	BLT-HEX 1/4 - 20 X 1-3/4	1
41	64123-07	BLT-HEX 1/4- 20 X 1-1/2	1
42	64163-34	WASHER-.256 X 1 X 11GA	1

ITEM	PART NO.	DESCRIPTION	QTY

***NOT ILLUSTRATED**

FIGURE 4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LITTLE WONDER BLOWER

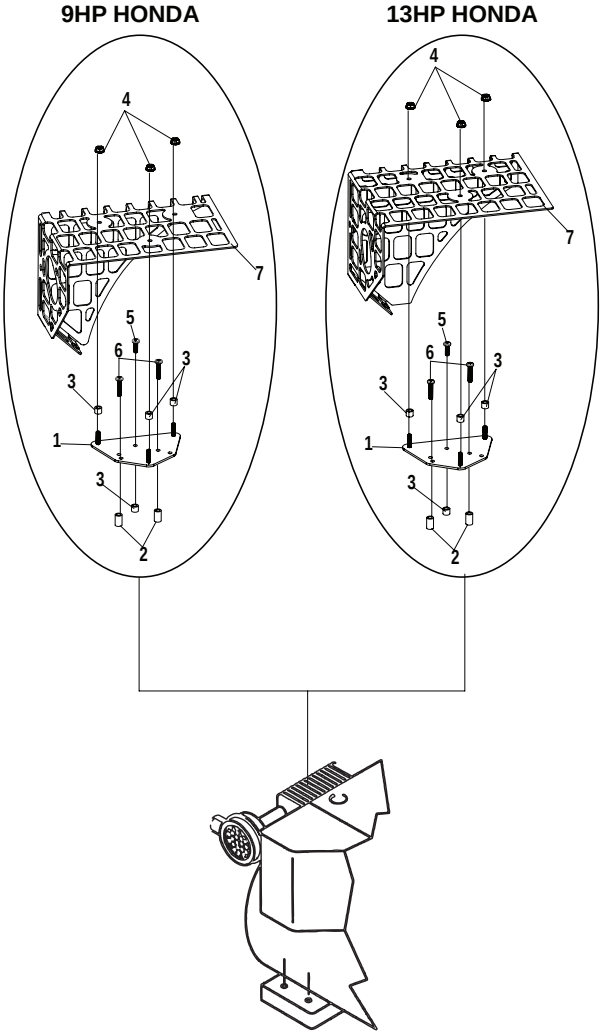
TRANSMISSION ASSEMBLY

FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY
1	4166271.7	WLDMT-DECK,SP	1
2	4165055	GT DIFFERENTIAL D16	1
3	4130975	BRG-BALL FLUSH MT TWO BLT 5/8	7
4	4165061	SPROCKET-DRIVE #43-8	3
5	4165092	SHAFT-INTERMEDIATE	1
6	4165100	PULLEY-V-RIBBED BELT 4.875	1
7	4165093	SHAFT-HEX	1
8	4165099	PULLEY-V-RIBBED BELT 2.25	1
9	4166316	WLDMT-CONTROL,SPEED	1
10	4166231	BLOCK-BEARING	2
11	64163-102	WASHER-MACH 1/2 X 7/8 X .045	2
12	64163-34	WASHER-1/4X1 x 11GA	2
13	64139-08	BLT-WLF 5/16-18X3/4	8
14	64163-31	WASHER-25/64 X 1 X 11GA	6
15	4165281	SPACER-0.259 X 0.500 X 0.145	2
16	4165076.7	PLATE-IDLER ARM,DBL	2
17	4165119	IDLER-1.875 OD	2
18	64229-01	NUT-NYLON LOCK 1/4-20	20
19	4165112	TRUNNION	1
20	4165111	WHEEL-FRICTION	1
21	4166136.7	PLATE-TRUNNION MOUNTING	2
22	4166164.7	BRKT-TRUNNION	1
23	4165108	AXLE-BLOWER, SP	1
24	4166026	LINK-TRUNNION	1
25	33103	SWIVEL	1
26	4165079	SHAFT-CLUTCHING	1
27	4165150	SPRING-TORSION, CLUTCH	1
28	64123-89	BLT-HEX 1/4-20X3/4	19
29	64123-60	BLT-HEX 1/4-20X2	2
30	64123-114	BLT-HEX 1/4-20X1	2
31	64123-07	BLT-HEX 1/4-20X1-1/2	2
32	4165107	SHAFT-HINGE	1
33	4165067.7	MOUNT-DRIVE DISK	1
34	4165117	DISC-DRIVE	1
35	4165118	SPACER-DISC DRIVE	1
36	4165989	LINK-MASTER #2040	2
37	64168-2	COTTER-HAIRPIN .08 X 1.19	5
38	64141-6	NUT-WLF 5/16-18	8
39	64229-03	NUT-NYLON LOCK 3/8-16	7
40	64144-34	SNAP RING .50	1
41	4165149	SPRING-EXTENSION	1
42	4166272.7	WLDMT-COVER,REAR SP	1
43	4165190	CHAIN-#43 ROLLER 27 PITCH	1
44	4166380	WHEEL ASM-4.10/3.50X6 FLANGE	2
45	4165060	SPROCKET-WHEEL #43-36	2
46	4164192-01	SPACER-PWDR MTL .635X1.0X.25	4
47	64144-36	SNAP RING 0.625	6
48	4165094.7	GUARD-CHAIN,LEFT	1
49	4165095.7	GUARD-CHAIN,RIGHT	1
50	64044-1	SCREW-SET 1/4-20 X 1/4	10
51	4165191	CHAIN-#43 ROLLER 47 PITCH	2
52	64152-56	SCREW-HS STAP #12X1/2	8
53	64152-23	SCREW-SP 1/4-20X3/8	6
54	4166697.7	BRACKET-CHAIN ADJUST	2
55	4166755.7	GUARD-ENGINE DECK,SP	1
56	64245-04	PIN-ROLL METRIC 5X24	2
57	64144-30	SNAP RING.375	2
58	4165046	BELT-ENGINE DRIVE DISC	1
59	64018-3	BLT-CRG 3/8-16X1	4
60	521679	BUSHING	2
61	64123-50	BLT-HEX 3/8-16X1	2
62	4165057	SHAFT-DIFFERENTIAL, SHORT	1
63	4165047	BELT-V RIBBED	1
64	4166622	ADAPTOR-BEARING	6
65	64164-05	KEY 1/8 X 1/2 #3 WOODRUFF	5
66	4165056	SHAFT-DIFFERENTIAL, LONG	1
67	64044-13	SCREW-SET 1/4-28X1/4	12
68	64141-2	NUT-1/4-20 WLF	5
69	64268-01	NUT-FL NYLON LOCK 1/4-20	2
70	4165192	LINK-MASTER #3	3
71	64268-02	NUT-FL NYLON LOCK 5/16-18	2

HONDA MUFFLER GUARDS

FIGURE 5



ITEM	PART NO.	DESCRIPTION	QTY
1	910156	MUFFLER PLATE HONDA	1
2	910158	STANDOFF 5/8	2
3	910159	STANDOFF 5/16	4
4	910531	NUT WIZ FLANGE 10-24	3
5	910532	SCREW SELF TAPPING M5 X 16	1
6	910533	SCREW SELF TAPPING M5 X 25	2
7	910154	MUFFLER GUARD-9HP HONDA (USED ON 9270 MODEL)	1
	910155	MUFFLER GUARD-13HP HONDA (USED ON 9390 MODEL)	

ITEM	PART NO.	DESCRIPTION	QTY

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Little Wonder Warranty Statement

Limited Warranty

Products Covered by This Warranty	LENGTH OF WARRANTY: FROM DATE OF ORIGINAL PURCHASE		
	PRIVATE RESIDENTIAL	*COMMERCIAL*	*RENTAL*
Hydro Brush Cutter	2 years	2 years	2 years
BedShaper®	2 years	2 years	2 years
Pro Edger	1 year	1 year	1 year
Pro Crack Cleaner	1 year	1 year	1 year
Electric Hedge Trimmer	2 years	2 years	2 years
Gas Hedge Trimmer	5 years	5 years	5 years
AgVac	2 years	2 years	2 years
TruckLoaders (All)	2 years	2 years	2 years
Pro Vac	2 years	2 years	2 years
C5 Blower	2 years	90 days	90 days
Optimax® Blower	5 years	5 years	5 years

Little Wonder products are warranted against defects in materials and workmanship for a period of time shown in the above table from the date of purchase from an authorized dealer by the original purchaser only, and under the following terms and conditions. Schiller Grounds Care's responsibility under this limited warranty is restricted to repairing or replacing, at its option, any covered part found to be defective in material or workmanship during the warranty period. All parts replaced under warranty will be considered as part of the original product and any warranty on the replaced parts will expire coincidentally with the original product warranty.

SCHILLER GROUNDS CARE, INC. MAKES NO EXPRESS OR IMPLIED WARRANTIES, REPRESENTATIONS, OR PROMISES EXCEPT THOSE CONTAINED HEREIN. THERE ARE NO OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH ABOVE ARE SPECIFICALLY DISCLAIMED. THE DURATION OF ANY IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY.

To Obtain Warranty Service - Warranty service must be performed by an authorized Little Wonder dealer. To locate a dealer, please visit: www.littlewonder.com and click on FIND A DEALER. For further assistance, write or email the Technical Services Department of Schiller Grounds Care

Schiller Grounds Care, Inc.
1028 Street Road
Southampton, PA 18966
techservicesupport@schillergc.com

ABOUT YOUR WARRANTY

The warranty period begins on the date of purchase by the original retail or commercial customer from an authorized Little Wonder dealer and is not transferable. Warranty service must be performed by an authorized Little Wonder dealer. If a warranty replacement becomes necessary, the authorized dealer must be prepared to provide the physical component for verification (freight prepaid) upon request from Schiller Grounds Care. Warranty service will be performed without charge to the purchaser for parts will be required to substantiate any warranty claim. Without proof of the initial purchase date from an authorized dealer, the manufacturing date of the product will be used to establish the warranty period.

Little Wonder Warranty Statement

EXCLUSIONS

This warranty only covers defects in materials or workmanship.

Engines and Other Manufacturers - Schiller Grounds Care makes no warranty with respect to engines or engine parts such as spark plugs, lubricants, starters, filters, and carburetors. The engine warranty is covered by the engine manufacturer. Consult the Operator's Manual for the engine provided with your product or ask an authorized dealer for the terms and conditions of these warranties. Schiller Grounds Care makes no warranty with respect to other parts not of its manufacture such as tires, batteries, gearboxes, or similar. These other parts may be covered by the warranties of their respective manufacturers.

Wear Items - This limited warranty does not cover damages or defects from normal wear and tear. This limited warranty does not include routine maintenance and normal maintenance parts, including but not limited to tires, batteries, transmissions, clutches, friction disks, blades, belts, chains, cables, hoses, bearings, non-metal liners, bags, or zippers.

Negligence and Improper Maintenance or Repair - This limited warranty does not cover any equipment that has been subject to lack of reasonable and proper maintenance, misuse, lack of proper storage, or accidents. This limited warranty does not cover any damage to the equipment that is caused by a freight carrier or is the result of failure to follow the operating instructions within the Owner's Manual. This limited warranty does not cover any defects due to repairs, modifications, or alternations made to the product by anyone other than Schiller Grounds Care or its authorized dealers. In addition, this limited warranty does not cover repairs made necessary due to a lack of proper protection during storage. This limited warranty does not cover damage caused by the use of parts, supplies, or accessories, including, without limitation, filters, spark plugs, carburetors, ignition, drive belts, brakes, gasoline, fuel, oil, or lubricants, which in the reasonable judgment of Schiller Grounds Care, are either incompatible with the product, adversely affect its operation, performance, durability or are other than as recommended in the Operator's Manual or other operational instructions provided by Schiller Grounds Care.

Improper Use - This limited warranty does not cover any Little Wonder Product, part, or accessory that (i) has been subject to misuse, abuse, neglect, negligence, or accident, or that has not been assembled, operated, or maintained in accordance with the operating or maintenance instructions specified in the Operator's Manual; or (ii) has been altered or modified so as to adversely affect its operation, performance or durability, or that has been altered or modified in ways not approved by Schiller Grounds Care. To the extent permitted by law, neither Schiller Grounds Care nor any company affiliated with it makes any warranties, representations, or promises as to the quality, performance, or freedom from defect of the Little Wonder Product, part, or accessory covered by this limited warranty. The authorized dealer makes no warranty of its own and such dealer has no authority to make any representation, warranty, or promise on behalf of Schiller Grounds Care or to modify the terms or limitations of this limited warranty in any way.

Other Exclusions - This limited warranty does not include reconditioned, refurbished, used, or demonstration equipment. This limited warranty excludes failures due to acts of nature beyond the manufacturer's control.

Extended Warranty - Schiller Grounds Care disclaims responsibility for any separately purchased extended warranty. ALL WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH ABOVE ARE SPECIFICALLY DISCLAIMED. THE DURATION OF ANY IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY.

Disclaimer of Consequential Damage - Schiller Grounds Care disclaims any responsibility for incidental or consequential damages including, but not limited to, the expense for gasoline, the expense of delivering the product to an authorized service dealer, the expense of returning the product to the purchaser, mechanic's travel time, telephone charges, rental of a like product during the repair timeframe, travel, loss of revenue, loss of time, or inconvenience. SCHILLER GROUNDS CARE, INC. DISCLAIMS ALL LIABILITY FOR INDIRECT, INCIDENTAL, AND/OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE LITTLE WONDER PRODUCTS COVERED BY THIS LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND 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.

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