LITTLE WONDER® Shredding

TruckLoader

MODEL 8141-00-01

14HP SUBARU

SCHILLER GROUNDS CARE

OPERATOR'S / PARTS MANUAL

MAN 4165002

Rev. B

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 TRUCKLOADER

IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class product, one of the best designed and built anywhere.

This machine comes with a Operation and Safety Manual and Parts Manual. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand this manual. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Schiller Grounds Care, Inc. product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manual thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manual, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

Schiller Grounds Care, Inc.
1028 Street Road
Southampton, PA 18966-4227 U.S.A.

TABLE OF CONTENTS ..... PAGE

SAFETY 2-4
LABELS 5
SET-UP 6,7
CONTROLS 8
OPERATION 9-10
MAINTENANCE / SERVICE 11
STORAGE 12
UNIT MOUNTING / MOUNTING KITS 13,14
PARTS SECTION 15
HOSE & BOOM ARM ASSY ..... FIGURE 1 16,17
HOUSING ASSY ..... FIGURE 2 18,19
CHUTE & LINER ASSY ..... FIGURE 3 20,21
WARRANTY ..... BACK COVER

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.

Schiller Grounds Care, Inc.

1028 Street Road
Southampton, PA 18966 U.S.A
Phone: 215-357-5110
Fax: 215-357-8045

MODEL NUMBER

SERIAL NUMBER

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 a hazardous situation which, if not avoided, **WILL** result in death or serious injury.

⚠WARNING

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

⚠CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **COULD** 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.

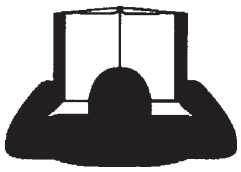
MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

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.

PREPARING FOR SAFE OPERATION

Operator preparation and training

Read the Operation & Safety Manual



- If an operator or mechanic cannot read the language of this manual, it is the owner's responsibility to explain this material to them. If any portion of this material is unclear, contact your factory representative for clarification.
- Become familiar with the safe operation of the equipment, operator controls and safety signs. Be prepared to stop the engine quickly in an emergency. Do not operate or allow another person to operate this machine if there are any questions about safety.
- All operators and mechanics should be trained. The owner is responsible for training the users.
- Wear appropriate clothing, including gloves. Wear substantial skid resistant footwear. Do not operate barefoot or wearing open sandals. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Wear hearing protection.
- Wear safety glasses.
- Wear a dust mask to avoid breathing dust.
- Never allow underage children, unskilled or improperly trained people to operate this equipment. Local regulations can restrict the age of the operator.
- Keep warning labels and this operator's manual legible and intact. Replacement labels and manuals are available from the factory.
- Do not operate machine while under the influence of drugs or alcohol.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

SITE PREPARATION AND CIRCUMSTANCES

- Evaluate the terrain to determine how to safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Be sure the area is clear of pets and people, especially young children. Never assume they will remain where you last saw them. Stop the machine if any enter the area.

MACHINE PREPARATION

- Do not tamper with or defeat safety devices. Keep guards, shields and interlock safety devices in place and in proper working condition. They are for your protection.
- Keep all fasteners such as nuts, bolts and pins well secured.
- Verify that machine and attachments, if any, are in good operating condition.
- Do not start engine until ready to load debris.

STARTING

- Start according to instructions in this manual or on the machine.
- When starting the engine, make sure hands and feet are clear of the impeller.
- Do not change engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.

INTERRUPTING OPERATION

- Before leaving the operator's position:
  - Shut off the engine.
- Stop the engine and disconnect the spark plug wire(s):
  - before clearing blockages;
  - before checking, cleaning or working on the machine;
  - after striking a foreign object. Inspect the machine for damage and make repairs before restarting;
  - if the machine begins to vibrate abnormally: shut off machine immediately. Inspect and make repairs as needed before restarting;
  - except for repairs or adjustments as specifically noted, such as for carburetor adjustment, where the engine must be running. Keep hands and feet clear of moving parts in these circumstances.
- Allow the fan to come to a complete stop when stopping operation to clear blockages, unclog, inspect the machine, do maintenance or repair.
- Reduce the throttle setting during engine shut-down and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of operation.

MAINTENANCE SAFETY

In general

- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park supporting vehicle on level ground.
- Never allow untrained personnel to service machine.
- Adjust or repair only after the engine has been stopped and the fan has stopped moving.
- 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.

MAINTENANCE AND ADJUSTMENTS

- Disconnect spark plug wire(s) before doing any maintenance.
- Particular care must be taken when adjusting the carburetor while the engine is running. Keep hands and feet clear. Shut off blades.
- When working underneath lifted parts or machines, make sure adequate support is provided.
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.

Fuel

- Petrol (gasoline) and diesel fuels are flammable; petrol (gasoline) 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.

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.
- Replace caps on fuel cans and tanks securely.
- 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 heating appliances with an open flame, such as a water heater, or an appliance with a pilot light.
- Keep 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.

WARNING

Avoid Serious Injury or Death:

- Read and obey the Operator Manual.
- Do not allow operation by children, unskilled or untrained personnel.
- Remove foreign objects from debris.
- Replace decals and Operation and Safety Manual if lost or damaged.
- Remove debris buildup. Debris near mufflers can cause fires.
- Inspect for damage after striking a foreign object. Make repairs before restarting operation.
- Find and repair cause of any abnormal vibration.

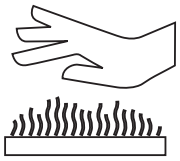
DANGER

ROTATING PARTS:
AMPUTATION HAZARD:

- Before Servicing or Unclogging:
  - Shut off engine and wait for machine to stop.
  - Remove spark plug wire.
- Do not operate without front panel secured in place and hose attached.
- Do not operate without Discharge Chute secured in place.
- Do not defeat interlock switch. Check operation daily.

4165003

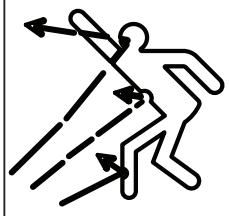
WARNING



Hot Surfaces:

- Keep hands away to prevent burns.
- Allow to cool before servicing exhaust or adjacent components.

WARNING



Thrown Objects:

- Remove rocks, bottles, and other potentially dangerous items before vacuuming debris.
- Keep Discharge area clear of people and pets.
- Discharge into suitable enclosure.
- Do not operate without discharge chute secured in place.
- Inspect Chute and Chute Liner for wear. Replace worn out Chutes and Liners.

4165004

WARNING

Before Starting:

- Read and understand the Operator Manual and labels.
- Be sure machine is in safe operating condition and interlock works. Make any necessary repairs.
- Have intake hose and discharge chute in place. Inspect for damage or wear. Make any necessary repairs.

ADVERTENCIA

- Leer el manual del operador. No permitir que personas no capacitadas para ello usen la máquina.
- Mantener los protectores en su lugar y sus tornillos debidamente fijados.
- Antes de limpiar, ajustar o reparar este equipo, apagar todos los mandos, aplicar el freno de estacionamiento y apagar el motor.
- Mantener las manos, los pies y la ropa alejados de las piezas en movimiento.
- No conducir como pasajero ni llavar pasajeros en máquinas sin asiento para ello.
- Mantener a las demás personas alejadas durante el funcionamiento de la máquina.
- Si no sabe leer inglés, solicitarie a otra persona que le lea y explique el contenido de las etiquetas y del manual de la máquina.

4165007

DEBRIS RECEPTACLE

The Shredding Truckloader is intended to be used in conjunction with a truck or trailer mounted debris receptacle to load landscape debris for removal from a work site to storage, dump or processing site. These receptacles or debris bodies or boxes are provided by the user and are the responsibility of the user. Following are some considerations to keep in mind when designing / building, or buying a debris receptacle on a vehicle.

1. It must be road worthy.

2. It must be constructed sturdily enough to contain the high velocity and force of entering debris to prevent injury to bystanders and damage to property.

3. Sufficient screen area must be provided to allow the air produced by the truckloader to escape while containing the lighter debris. A bigger screen area reduces the speed of the air through the screen and helps reduce the amount of debris that will be held to the screen. The screen area should be in the last area to be fill so it stays clean. If the air cannot escape, the truckloader will not be able to generate a vacuum to pick up debris.

4. It should prevent the debris from blowing out during transport to an unloading site.

5. Unloading: Provision must be made for unloading.

ASSEMBLY AND SET-UP

1. Remove unit from crate.

2. Your Little Wonder Truckloader can be mounted in (4) four ways. The frame mounting will be covered below. Refer to the instruction sheet supplied with each kit for Swing Away, Tailgate, or Hitch mounting.

3. Fill the engine with oil. Fill the fuel tank with clean fresh gasoline.

4. Assemble the discharge chute. Slide flange clamp plate over discharge chute. Position the discharge flange over the fan housing flange. Position the flange clamp plate over the fan housing studs and secure with (2) two 3/8-16 nylon insert flange nuts and 2 (two) locking knobs. Back the nuts off from tight just enough that the chute may be turned for positioning. Lock the chute in the desired position by tightening the knobs.

5. Assemble the boom assembly in the receiver tube on top of the fan housing. Connect the hose to the inlet flange. Insert the adaptor, turn to lock and secure in place with the locking knobs.

6. Read the Operator's manual before operating the machine.

UNIT MOUNTING AND MOUNTING KITS.

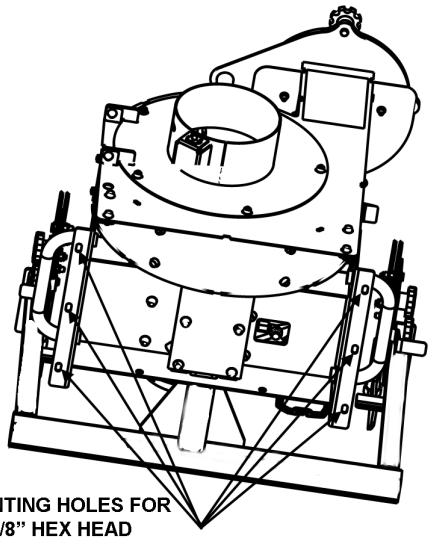
Most Truckloader installations are customized and somewhat unique. It is the responsibility of the installer to ensure the installation is sufficient to carry the truckloader or truckloader mounting kit.

Your Little Wonder 14HP Truckloader can be mounted in four different ways. Brief instructions for each are listed below. Refer to the specific mounting kit for detailed instructions.

MOUNT SHREDDING TRUCKLOADER FRAME

1. Mount the Shredding truckloader frame to the frame or swing away, and secure frame with (6) six 3/8" hex head bolts (Grade 5 or better), 3/8" flat washers, and 3'8" lock nuts.

BOTTOM VIEW OF TRUCKLOADER



MOUNTING HOLES FOR THE 3/8" HEX HEAD BOLTS.

Skid Mount

Application: Trailer mount or permanent truck mount:

To use the truckloader as a skid mount, supply a suitable surface for the unit to sit on and secure with 3/8" fasteners. If the surface is a wood deck of 2" nominal thickness (1-1/2" actual thickness), lag screws or bolts and lock nuts may be used. Use Grade 5 or better bolts. Nylon insert locknuts are recommended. If wood decking is less than 2" nominal thickness, or if steel brackets are used, 3/8" bolts and nylon insert locknuts are recommended. Direct the discharge chute to the debris receptacle area.

Hitch Mount (Kit 720060)

Vehicle Requirement: Vehicle with 2" square Class III or Class IV hitch receiver.

Application: Inexpensive mount on either a fixed or tilted bed truck. Must be removed to tilt bed or unload.

Install the hitch bar in the channel underneath the truckloader unit. Secure the hitch bar from pulling out with the hitch pin and hairpin cotter provided. Sandwich the hitch bar between the unit and the clamp plate: Secure the clamp plate with six (6) 3/8-16X1 bolts and six (6) 3/8-16 nylon insert flange nuts.

To mount the unit on a truck get a helper and pick up the unit. Use proper lifting technique. Slide the hitch bar into the vehicle's hitch receiver. Secure with the hitch pin and hairpin cotter. Attach the safety chains to the vehicle.

To remove the unit, remove the hose/boom assembly, disconnect the safety chains and hitch pin. With a helper, lift and slide the unit out of the vehicle hitch receiver and set down.

Tailgate Mount (Kit 720061)

Vehicle Requirement: A suitable heavy duty tailgate like those used on dump bodies or a similar structure. A pickup tailgate will not handle this mount.

Application: Fixed or tilt bed. Must be removed to tilt or unload. Keeps hitch receiver free so a trailer may be pulled.

Install tailgate mount on the tailgate of your truck. Adjust the clamps to grip the tail gate securely when the lever handle is pulled down and locked. If the adjusting nuts do not provide sufficient travel, the clamp pads may be moved to a different set of holes to get a secure fit.

Remove the mount from the tailgate and install the hitch bar in the channel underneath the truckloader unit. Secure the hitch bar from pulling out with the hitch pin and hairpin cotter provided. Sandwich the hitch bar between the unit and the clamp plate. Secure the clamp plate with six (6) 3/8-16x1 bolts and six (6) 3/8-16 nylon insert flange nuts.

To mount the unit on a truck get a helper and pick up the assembly and lift it over the tailgate. Use proper lifting technique. Pull the clamp levers down and secure them in place with the locks.

To remove the unit, remove the hose/boom assembly, unlock the clamp levers and open the clamps. With a helper, lift the unit over the vehicle tail gate and set down. Use proper lifting technique.

Swing-Away (Kit 720062)

Vehicle Requirement: Vehicle with 2" square Class III or Class IV hitch receiver.

Application: One man unloading of tilt bed vehicles with beds up to 96" wide.

With a helper, lift the swing-away frame and slide the hitch bar into the vehicle receiver. Use proper lifting technique. Secure with the hitch pin and the hairpin cotter. Attach the safety chain to the vehicle. Lift the truckloader unit and place it on top of the swing-away frame. Secure it to the frame with six (6) 3/8-16x1 bolts and six (6) 3/8-16 nylon insert flange nuts.

To use the swing-away feature, pull the hitch pin on the right side and the lynch pin holding the frame together on the left side. Pull the swing-away frame open. The swing-away may be locked in the 90 degree or 180 degree positions with the hitch pin.

⚠WARNING

DO NOT transport with the swing-away in either open position.

Damage to the swing-away or vehicle may result.

Close the swing-away and secure with lynch pin before transporting.

The swing-away may be used to vacuum debris in the 90 degree position.

The 180 degree position is for dumping the load of debris collected in the truck box. Before using the swing-away, conduct a trial run to be sure there is sufficient clearance between the truckloader and the truck body.

OTHER KITS AND ACCESSORIES AVAILABLE FOR YOUR TRUCKLOADER:

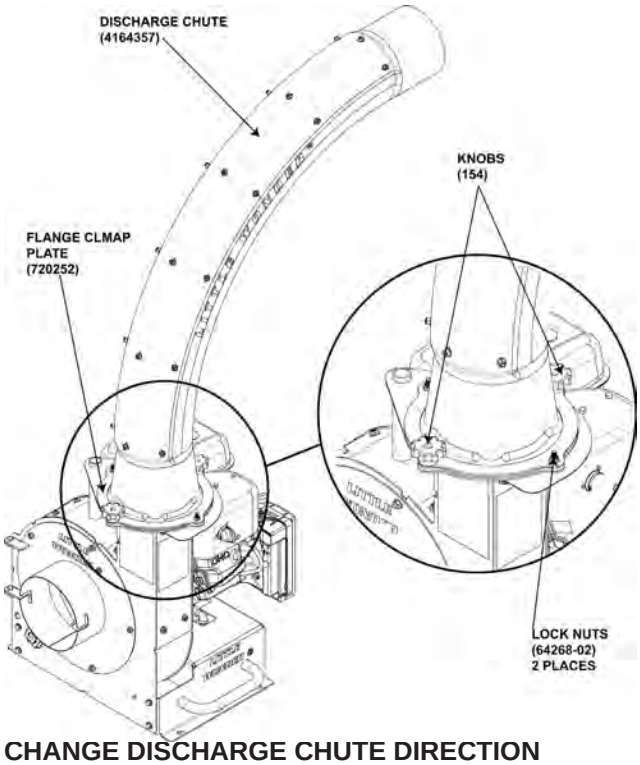
720025- 18" HOUSING EXTENSION KIT
720027- 6' DISCHARGE CHUTE EXTENSION KIT
720070- CHUTE DEFLECTOR KIT

INSTALL DISCHARGE CHUTE TO POWER UNIT

1. Slide the flange clamp plate (720252) over the discharge chute deflector down to the flange.

2 Orient the discharge chute (4164357 with liner (4164607) so its flange is facing the top of the Shredding truckloader housing, and slide the flange clamp plate (720252) over the four housing flange studs.

3. Direct discharge into The debris receptacle, and affix it with (2) two knobs (154), (2) two flanged nylon insert nuts (64268-02) as shown below.



CHANGE DISCHARGE CHUTE DIRECTION

1. Loosen knobs (154) and nuts (64268-02).

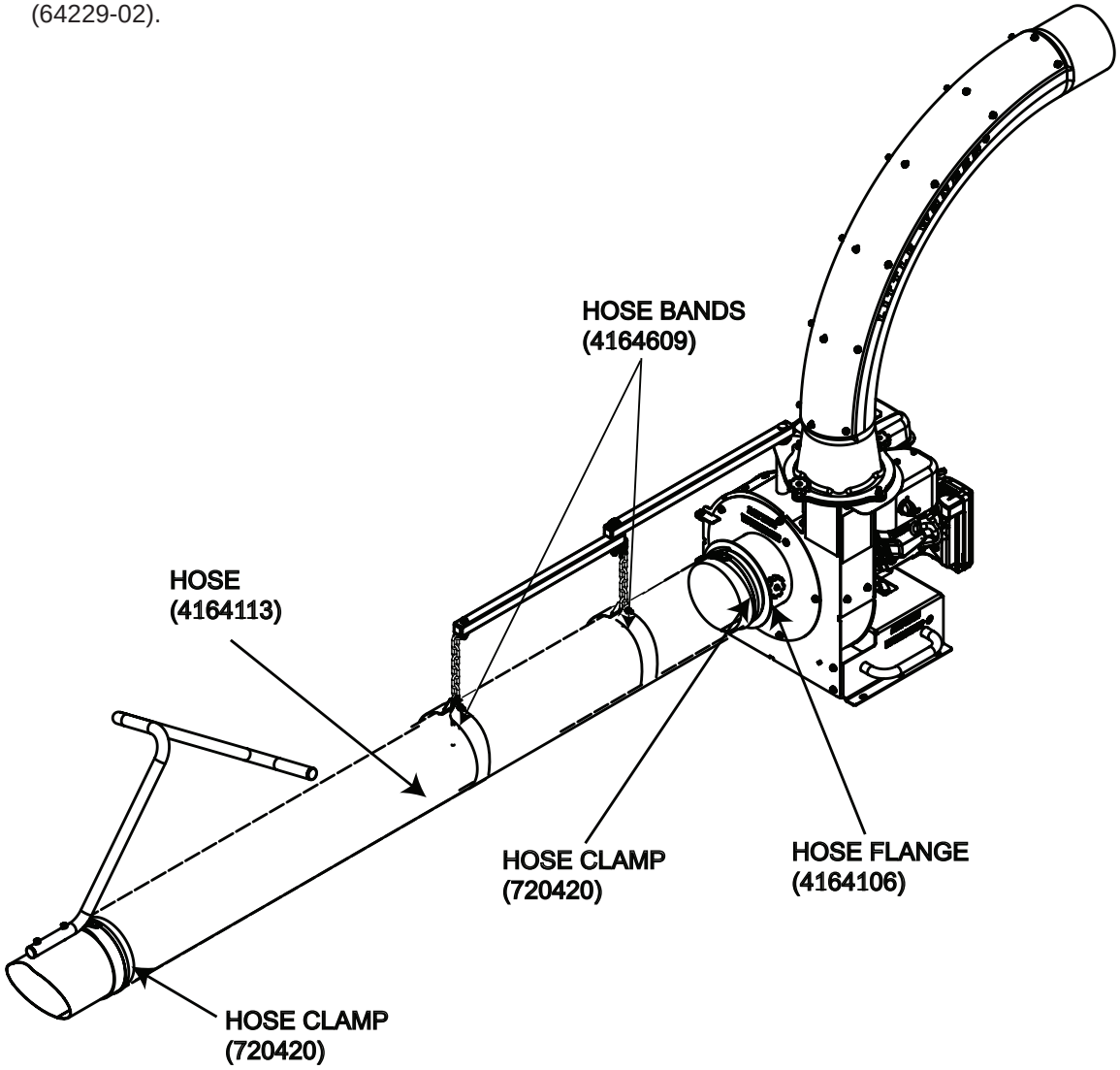
2. Swivel discharge chute to desired direction.

3. Affix chute by retightening knobs and nuts.

4. Additional tools are not needed.

INSTALL HOSE AND BOOM ARM TO HOUSING (SEE FIGURE 1 FOR ASSY)

1. Remove hose (4164113) from box and stretch it.
2. Hold the hose, and stretch each end as far as possible to open internal diameter.
3. Slide hose clamp (720420) over each end of hose.
4. Insert hose flange (4164106) in one end of hose and tighten clamp (720420).
5. Place hose bands (4164609) over hose, near flange end.
6. Get boom arm assembly and attach chains to hose bands with bolts (64123-61) and nuts (64229-02).
7. Place boom arm pivot shaft into housing tube.
8. Install knobs (154) onto hose flange. Leave knobs loose.
9. Push hose flange studs into front plate notches and turn to lock. Tighten knobs to secure into position.
10. Install hose nozzle/handle assembly, onto other end of hose. Orientate handle to desired position and tighten clamp.



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 during storage. Move to the "ON" position before starting the engine.

HOSE ATTACHMENT

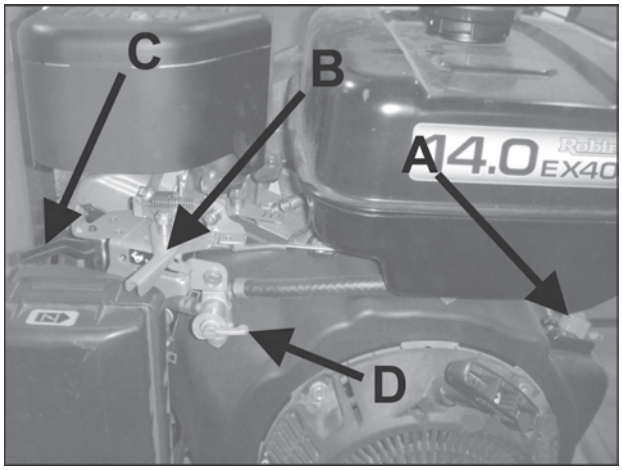
Slide the hose adaptor into the slots on the inlet tube, twist it to lock the studs into the slots and tighten the locking knobs to secure in place. A switch stops the engine when the hose is removed.

BOOM ASSEMBLY

The hose boom assembly supports the hose while allowing it to move horizontally.

DISCHARGE CHUTE

The discharge chute can be turned to point in the desired direction. to turn the chute, loosen the knobs and turn the chute to the desired direction. Tighten the knobs to secure.



INTENDED USE

This unit is intended for vacuuming leaves, clippings and other similar sized organic material from the ground into a truck or trailer. Large sized or long stringy material will tend to clog.

Vacuuming sand, rocks, and hard litter will shorten the life of this machine and may damage the machine or parts of it.

PRE-OPERATION CHECK LIST (OPERATOR'S RESPONSIBILITY)

- Review and follow all safety rules and safety decal instructions.
- Check that all safety decals are installed and in good condition. Replace if damaged.
- Check to make sure all shields and guards are properly installed and in good condition.
- Make sure the discharge chute and hose are installed.
- Check the hose, discharge chute, liners, and housing for wear. Do not operate if these parts are worn through. Replace or repair before operating.
- Check that all hardware is properly installed and secured.
- Check to be sure engine is free of dirt and debris. Pay particular attention to the cooling fins, governor parts and muffler. Clean air intake screen. Check air cleaner; service if necessary.
- Clean area around the oil fill dipstick. Remove dipstick and check to be sure oil is in operating range (between marks on dipstick). Add oil if necessary but **Do Not Overfill.** See engien manual for oil specifications. Install dipstick assembly firmly until cap bottoms out on tube. Dipstick assembly must always be secured into fill tube when engine is running.
- Inspect material to be vacuumed and remove stones, branches or other hard objects that might damage the machine or cause it to clog.
- Perform a functional check of the safety interlock system each time you operate the unit.

OPERATION

- Fill fuel tank with good quality, clean, unleaded gasoline. Do not use hi-test fuel.
- Use a funnel to avoid spillage.

⚠ WARNING

Gasoline is extremely flammable and highly explosive under certain conditions. BE SURE to install fuel cap after refueling.

Fill fuel tank with good quality, clean, unleaded regular gasoline to the level recommended by the engine manufacturer.

TO CHECK OR ADD FUEL:

- Use a funnel to avoid spilling.
- Do it outdoors.
- Do not smoke.
- Stop the engine; allow to cool.
- Do not overfill.
- Clean up spilled fuel.

OPERATOR PRESENCE INTERLOCK SYSTEM

The suction hose must be in place to start the engine and keep it running.

BEFORE STARTING THE ENGINE

1. Be familiar with the controls, how each functions, and what each operates.
2.. Check engine oil level. Add oil if necessary, following the engine manufacturer's recommendations. Refer to engine manual included with literature packet.

STARTING THE ENGINE

1. Turn the fuel on and move the throttle to the half open position.
2. Set the engine switch to the ON or RUN position.
3. Move the choke to the ON position for cold starts. For warm starts attempt to start without the choke first to avoid flooding. If the engine does not start then use the choke.
4. Pull the recoil starter handle firmly to start the engine.
5. When the engine starts, gradually back off the choke until the engine runs with no choke.

OPERATING

To vacuum debris, run the engine at maximum rpm. Hold the nozzle handle and move the intake nozzle in sweeping motions over the debris. Another method is to lay the nozzle on the ground and rake debris into the nozzle opening.

Move the nozzle to the debris, but do not block air flow into the nozzle. The air flow carries the debris.

Tip: Hose life may be increased by periodically loosening the hose clamps and rotating the hose so wear is more evenly distributed.

EXCESSIVE VIBRATION

Shut off the engine immediately if vibration occurs. Remove spark plug wire. Find the cause of vibration and repair it. Some possible causes for excessive vibration are:

- Damaged impeller or talon ring.
- Loose impeller bolt
- Loose impeller key
- Lodged objects

STOPPING THE ENGINE

When operation is complete or the unit needs to be checked or a clog needs to be cleared:

1. Move the throttle to SLOW.
2. Set the engine switch to the OFF position.
3. Move the fuel valve to the OFF position.

CLOGS

To prevent clogs, do not overfeed, especially with heavy wet material.

Pay attention to how full the debris receptacle is. Overfilled debris receptacles cause material to back up and get tightly packed in the discharge cute.

Clogged Hose

Often a clogged hose can be cleared by stretching the hose out straight with the engine running. If the hose does not clear, see Removing Clogs below.

Removing Clogs

⚠WARNING

Before removing the hose or attempting to clear a clog manually:

- Stop the engine. Put the engine switch in the OFF position.
- Wait for the fan to come to a complete stop.
- Disconnect the spark plug wire so fan movement cannot accidentally start the engine.
- Wear gloves. There may be sharp materials in the clog.

Remove the hose from the blower inlet. If the hose is clogged manually clear it. If the blower is clogged it may be possible to remove the material through the inlet opening. If not, remove the 5 nuts holding the inlet assembly to the housing and swing the inlet assembly open to gain access. If the chute is clogged, it may be necessary to remove the chute for access to the clogged area.

TRANSPORT

1. Shut off the engine and turn off fuel valve.
2. Disconnect the hose from the power unit.
3. Remove the boom assembly from the frame (it can stay with the hose.)
4. Remove the discharge chute.
5. Transport the hose/boom assembly and discharge chute secured in the truck or trailer.
6. Do not exceed 30 mph. High speeds together with rough roads can cause damage to the unit

DAILY MAINTENANCE

- Check operation of hose interlock switch.
  1. Start engine with hose properly installed.
  2. Loosen the knobs, rotate the hose and start to remove it.
  3. The engine should stop running.
  4. Push the hose back in and reinstall.

  If the switch does not stop the engine, repair before attempting to use the machine.

- Inspect the hose, chute, chute liner, and blower housing liner for wear. Repair or replace worn parts.

- Tighten any loose fasteners.

CLEANING

Keep the area around the muffler and engine recoil cover /cooling air intake free of debris accumulation to prevent fires and keep the engine from overheating. These areas need to be monitored throughout the work day and may need to be cleaned several times daily depending on circumstances.

ENGINE OIL

- Check the oil level daily.
- Change after the first day of operation and then according to the engine manual.
- See the engine manual for oil specifications and checking procedure.

ENGINE AIR CLEANER

- Check and clean according to the engine manuals.
- Little Wonder recommends daily inspection and cleaning due to the extreme environment of debris handling.

BLOWER HOUSING LINER REPLACEMENT

- Before replacing liner stop engine.
- Put engine switch in OFF position.
- Remove spark plug wire so fan movement cannot inadvertently start engine.
- Remove hose from blower inlet.
- Remove nuts securing blower inlet assembly and open blower inlet assembly.
- Remove the fan bolt, talon ring, fan washer, and fan.
- If the fan does not come off readily, the groove on the fan hub is made to accept a puller.
- Reinstall the fan bolt or otherwise protect the crankshaft.
- Remove liner retainer.
- Remove the old liner.
- Install the new liner with the thick rubber side towards the fan. Use new bolts and washers. Start at one end and work around the housing leaving the fasteners loose until all the fasteners have been installed. Then tighten the bolts until the washer is slightly drawn into the rubber. Do not over tighten
- Reinstall liner retainer. See parts list for locations of carriage bolts.
- Reinstall the fan, fan washer, and talon ring. Apply red (permanent) thread locking compound to the fan bolt and tighten to 45ft/lbs.

CHUTE LINER REPLACEMENT

- Before replacing liner stop engine.
- Put engine switch in OFF position.
- Remove spark plug wire so fan movement cannot inadvertently start engine.
- Remove chute from blower housing.
- Remove rubber plugs from access holes on the bottom of the chute.
- Remove nuts, washers, bolts then remove old liner.
- Feed the new liner into the chute. Using new bolts and new washers on the inside, and new washer and new nuts on the outside, install new fasteners working in from each end. Leave the bolts loose until all fasteners are installed. Then tighten the nuts and bolts, working from the inside out.
- Reinstall the rubber plugs.
- Reinstall the chute on the machine.

STORAGE

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

Before the equipment is put into storage for any period exceeding 30 days, the following steps should be completed.

1. Drain all fuel from the fuel tank and the 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 used next.

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.

Store the unit out of sunlight to prolong hose life.

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

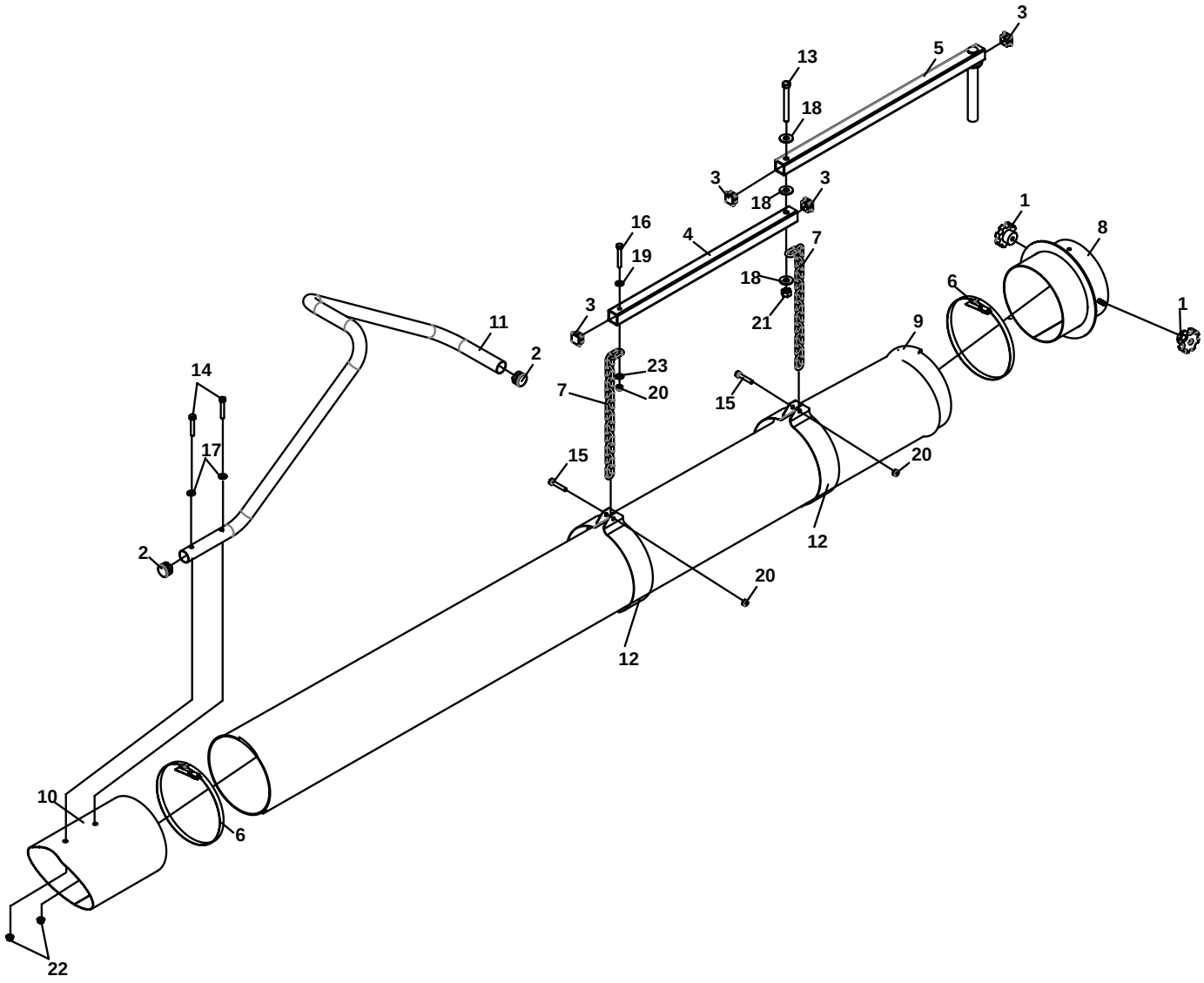
1. Check for loose parts and tighten if necessary.

2. Fill the fuel tank and then check the engine oil level. Top off if necessary. See engine manual for details.

3. Start the engine and check for fuel leaks. Repair any leaks before operating the unit.

PARTS SECTION

FIGURE 1


3
13
5
18
3
18
3
16
4
7
19
18
1
8
6
1
3
21
9
11
2
14
23
7
20
15
17
15
20
2
12
20
12
10
6
22

LITTLE WONDER TRUCKLOADER

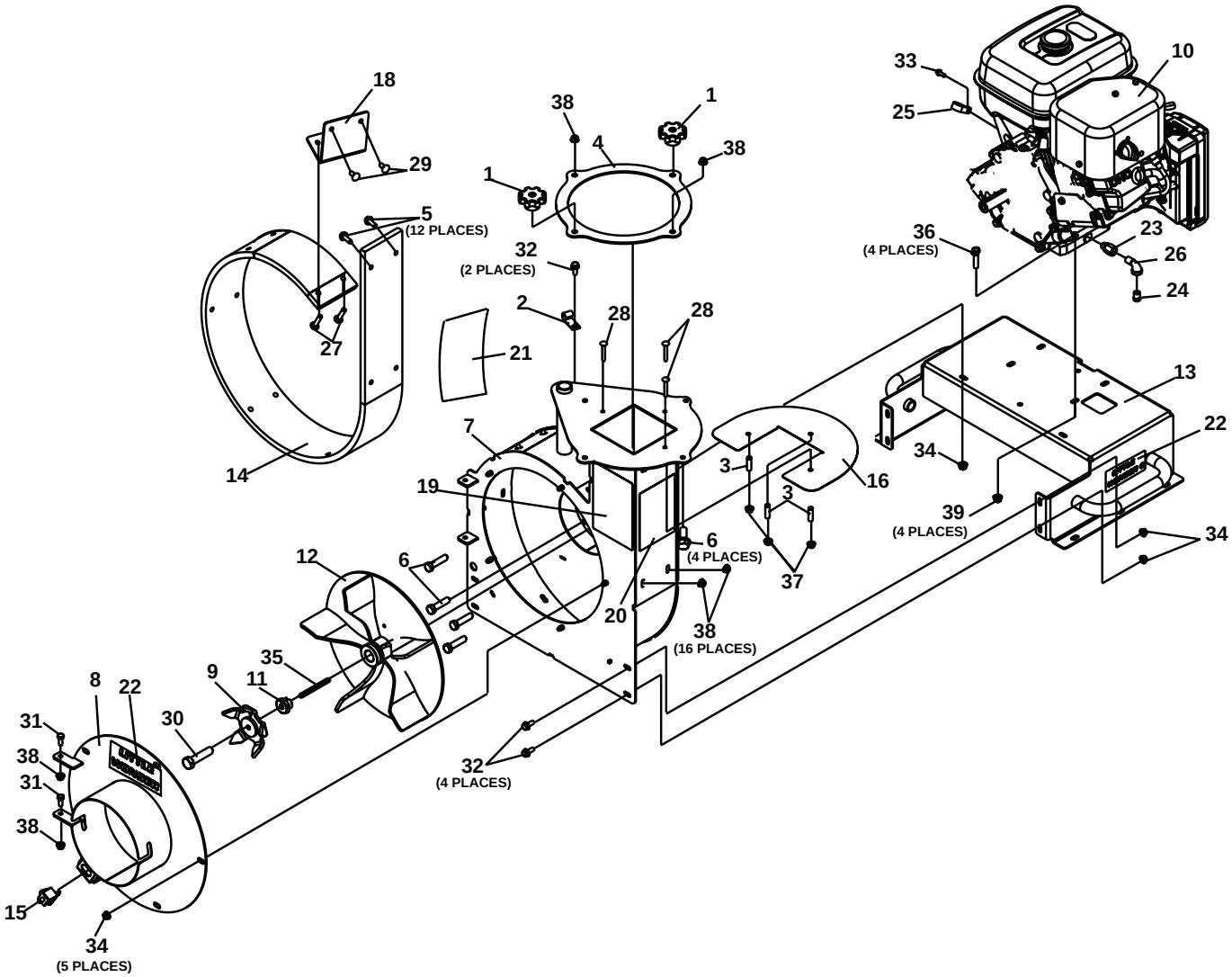
HOSE AND BOOM ARM ASSY

FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY
1	154	KNOB-BLKW/ STEEL PLTD	2
2	720279	PLUG-TUBE 1-1/4 ROUND	2
3	720289	PLUG-END 1-1/4X1-1/4 X1/8	4
4	720314	TUBE-SQUARE BOOM	1
5	720326	WLDMT-BOOM	1
6	720420	CLAMP-7" DIA. HOSE	2
7	720533	CHAIN-BOOM	2
8	4164106	WLDMT-HOSE FLANGE	1
9	4164113	HOSE-INTAKE, 8" X 10 FT	1
10	4164116	TUBE-INTAKE NOZZLE	
11	4164255	HANDLE	1
12	4164609	BAND-HOSE	2
13	64123-261	BLT-HEX 7/16-14X4 GRD 5	1
14	64123-56	BLT-HEX 5/16-18X2	2
15	64123-61	BLT-HEX 5/16-18X1-3/4	2
16	64123-64	BLT-HEX 5/16-18X2-1/4	1
17	64163-02	WSHR 328X.593/.608X11GA	2
18	64163-19	WSHR 33/64X1-1/4X12GA	3
19	64163-55	WSHR .328X.75X14 GA	1
20	64229-02	NUT-NYLON LOCK 5/16-18	3
21	64229-04	NUT-NYLON LOCK 7/16-14	1
22	64268-02	NUT-FL NYLN LCK 5/16-18	2
23	64163-31	WSHR-25/64 X 1 X 12	1

ITEM	PART NO.	DESCRIPTION	QTY

FIGURE 2


18
29
5
(12 PLACES)
27
14
38
4
1
1
38
32
(2 PLACES)
2
28
28
21
7
19
12
6
6
(4 PLACES)
20
38
(16 PLACES)
32
(4 PLACES)
3
3
16
37
33
10
25
36
(4 PLACES)
23
26
24
13
22
34
39
(4 PLACES)
34
8
22
31
38
31
38
15
34
(5 PLACES)
30
9
11
35

LITTLE WONDER TRUCKLOADER

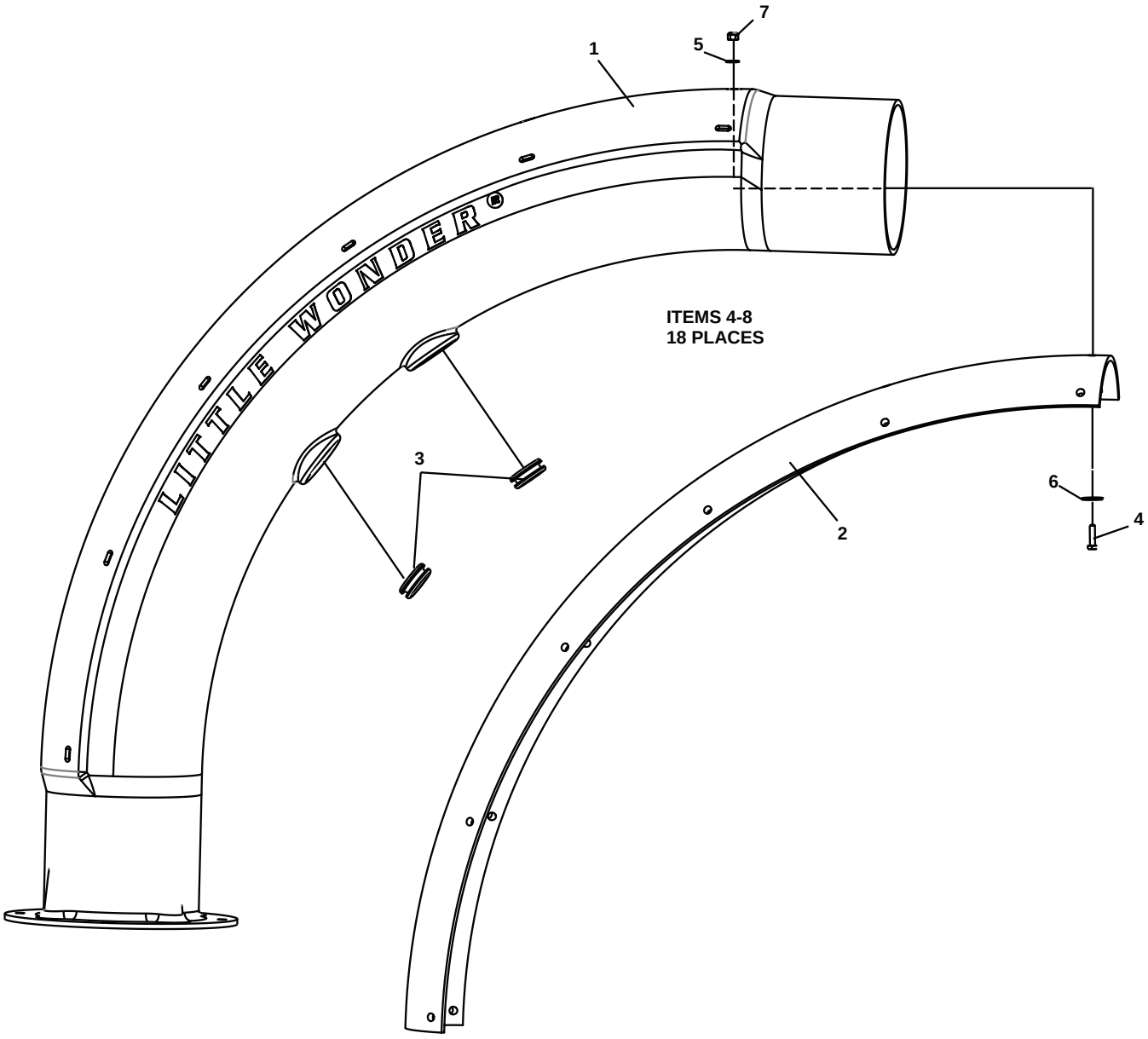
HOUSING ASSEMBLY

FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY
1	154	KNOB-BLKW/ STEEL PLTD	2
2	48412	CLIP-CABLE 5/8J X 8.74	1
3	516544	BUSHING (PLATED)	3
4	720252	FLANGE-CLAMP PLATE	1
5	720592	BLT-WLF 5/16-18 X 1.00	12
6	910503	BOLT-WLF 5/16-24X3/4	4
7	4165222	S-HOUSING, 14 HP (INCLUDES ITEMS 19, 20, & 21)	1
8	4164102	WELDMENT-FRONT PLATE	1
9	4164109	WLDMT-TALONG RING	1
10	4164120	ENG-14HP SUBARU	1
11	4164145	DRIVER-TALON RING BORE	1
12	4164218	WLDMT-5 BLD 14 FAN	1
13	4164493	WLDMT-FRAME	1
14	4164502	LINER-HOUSING	1
15	4164505	SWITCH-DELTA, NC	1
16	4164717	SHIELD-HEAT	1
17*	4164793	HARNESS-WIRE, SHUT OFF	1
18	4164843	RETAINER-LINER	1
19	4165003	LABEL-ROT PARTS	1
20	4165004	LABEL-HOT SURF/THRN OB	1
21	4165007	LABEL-WARNING, READ MAN	1
22	4165008	LABEL-LITTLE WONDER	3
23	2690049-01	FTG-ADAPTER, M14X1.5 1/4	1
24	2690050-01	FTG-PLUG, 1/4 NPT HEX HD	1
25	48228A	CABLE CLIP-INSULATED	1
26	48255-02	FITTING-STR EL 1/4 NPT	1
27	64018-34	BLT-CAR 5/16-18 X 1-1/2	2
28	64018-36	BLT-CRG 1/4-20X1-3/4 GR5 SN	3
29	64018-9	BLT-CRG 5/16-18X3/4 G5	2
30	64123-267	BLT-HEX HD 3/8-24 X 2.5 GR 8	1
31	64123-54	BLT-HEX 5/16-18X3/4	2
32	64139-08	BLT-WLF 5/16-18X3/4	6
33	64139-20	BLT-WLF M6-1.00X16	1
34	64141-6	NUT-WLF 5/16-18	11
35	64164-38	KEY 1/4 X 3-1/2 SQ	1
36	64262-013	BLT-FLG HD 3/8-16 X 1-1/2	4
37	64268-01	NUT-FL NYLON LOCK 1/4-20	3
38	64268-02	NUT-FL NYLON LOCK 5/16-18	20
39	64268-03	NUT-FL NYLON LOCK 3/8-16	4

*** NOT ILLUSTRATED**

FIGURE 3



CHUTE & LINER ASSY

FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY
1	4164357	CHUTE-DISCHARGE	1
2	4164607	LINER-CHUTE	1
3	4165086	PLUG-HOLE, GROMMET	2
4	64123-114	BLT-HEX 1/4-20X1	18
5	64163-03	WSHR .256ID X.62X 18 GA.	18
6	64163-103	WASHER-FENDER, 1/4X1	18
7	64229-01	NUT-NYLON LOCK 1/4-20	18

*** NOT ILLUSTRATED**

ITEM	PART NO.	DESCRIPTION	QTY