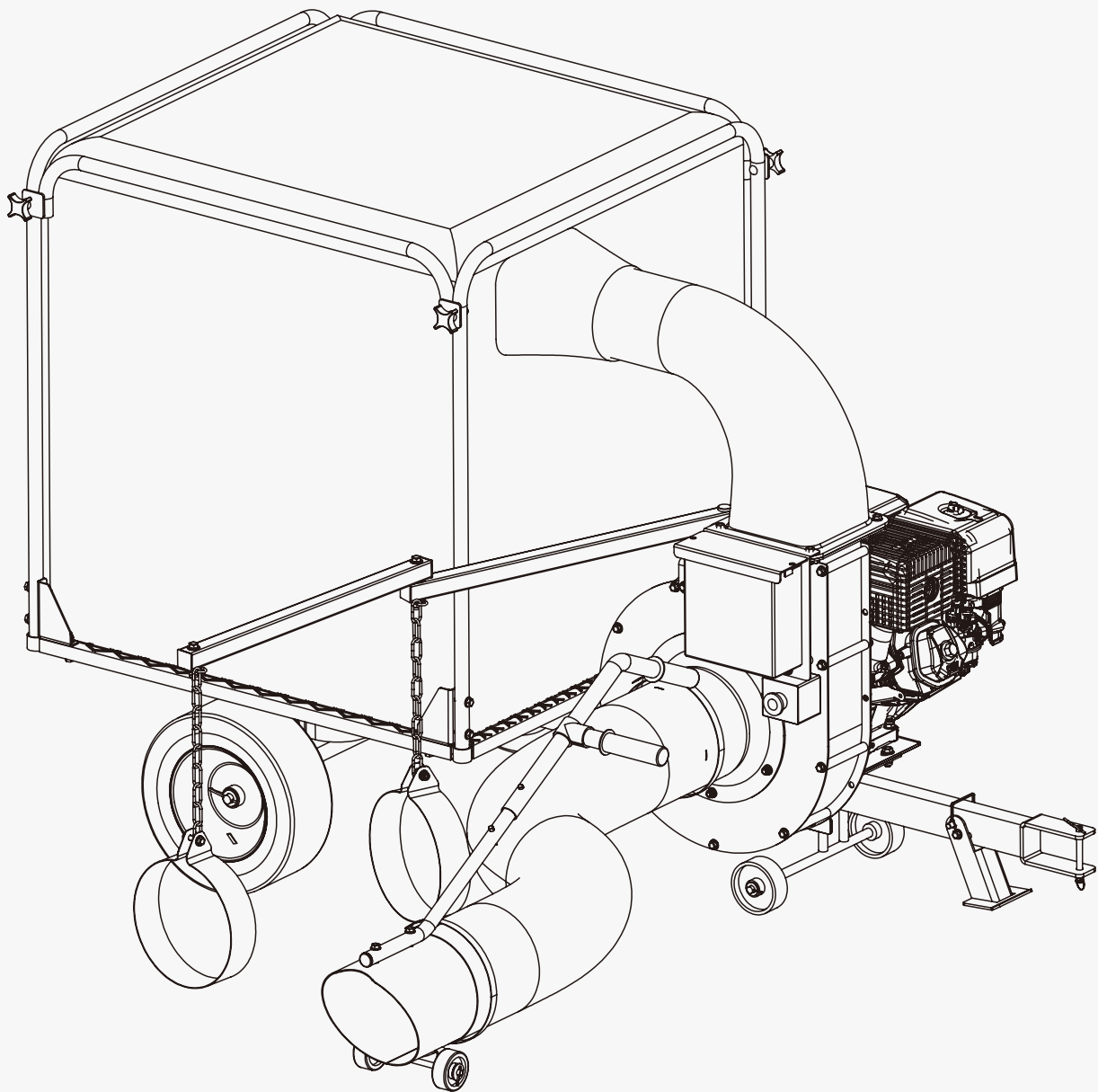




Tow-Behind Leaf Vacuum | GUO142 Operator's Manual



Warning: Please read and thoroughly understand all instructions before operating. Failure to follow safety rules and other basic safety precautions may result in serious personal injury. Keep these instructions in a safe and easily accessible place so that they can be referred to when needed. Retain these instructions to assist in future servicing.

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Safety Warnings & Statements

For your own safety and the safety of the product, please always follow these basic safety precautions when using this product.

General Precautions

1. Before use, you need to read and understand the product manual carefully to understand this product and its installation and operation methods.
2. The manual cannot describe all conditions or situations that may occur that may cause injury. The operator must understand the product or understand this user manual.
3. Never operate this product under the influence of alcohol or drugs.
4. If you are under 16 years old, do not operate this product.
5. When using this product, make sure there are no unauthorized persons nearby.
6. When unpacking and installing this product, use appropriate tools and wear gloves.
7. Please operate this product during the day or under good artificial light.
8. Never operate or install this product without reading or understanding the operator's manual.

Operation Precautions

1. Be very careful when loading or unloading the machine.
2. Please operate the machine carefully on the road or sidewalk.
3. Do not run the engine in an enclosed area where dangerous carbon monoxide fumes can collect.
4. When starting or operating the machine, make sure that the machine is on level ground and never lean directly over the machine.
5. Be sure the area is clear of other people before operating. Stop the unit if anyone enters the area.
6. When the machine is running, do not put your hands near the vacuum suction and discharge chute.
7. Operate the machine only in daylight or good artificial light.
8. Do not operate the unit while under the influence of alcohol or drugs.
9. Always wear eye and ear protection, anti-dust mask when operating this unit.
10. Keep in mind the operator is responsible for accidents occurring to other people or property.
11. Never operate the machine without proper guards, plates, or other safety protective devices in place.
12. Thoroughly inspect where machine is to be used and remove all foreign objects. And check the terrain to determine how to perform safely.
13. We suggest do not work on the slope as possible, especially in downhill, be sure to operate carefully and slowly.
14. Never attempt to clear clogs from the intake hose and the discharge chute while the unit is running. Always shut the engine off, allow the impeller to come to a complete stop, and remove the spark plug wire from the spark plug before removing excess materials.
15. Never attempt to perform any maintenance, repairs, or attachment of accessories while the unit is running. Always shut the unit off, allow the impeller to come to a complete stop, and remove the spark plug wire from the spark plug before beginning these activities.

Product Specific Safety

DANGER

The leaf vacuum has spinning blades that can amputate hands and feet. Do not place hands or feet in the hopper or chipper cone, or discharge chute.

WARNING

- Always wear protective goggles and do not operate the unit without the debris bag in place, as it discharges debris at high speeds.
- Do not allow anyone in the area while the unit is running, and if someone enters, shut the unit off immediately until they leave.
- Organize the work area before starting work.
- Never leave the machine running unattended; always turn off the engine, wait for the impeller to stop, and disconnect the spark plug.
- Keep the machine clear of material buildup, do not attempt to move it while running, and inspect for any signs of damage or foreign objects before operation.
- Use only approved attachments and accessories, ensure the machine is free of debris before starting, and stop the engine and inspect for damage if a foreign object is struck.

Disclaimer

Please read and understand all instructions carefully before operating this equipment. Only strictly observe safety precautions and other basic safety precautions before operating this equipment. Our company is not responsible for personal injury or property damage caused by human factors or abnormal use.

Main Purpose

The unit is a gasoline engine powered that can be used to suck up and pulverize leaves, debris, and other similarly sized organic material from the ground.

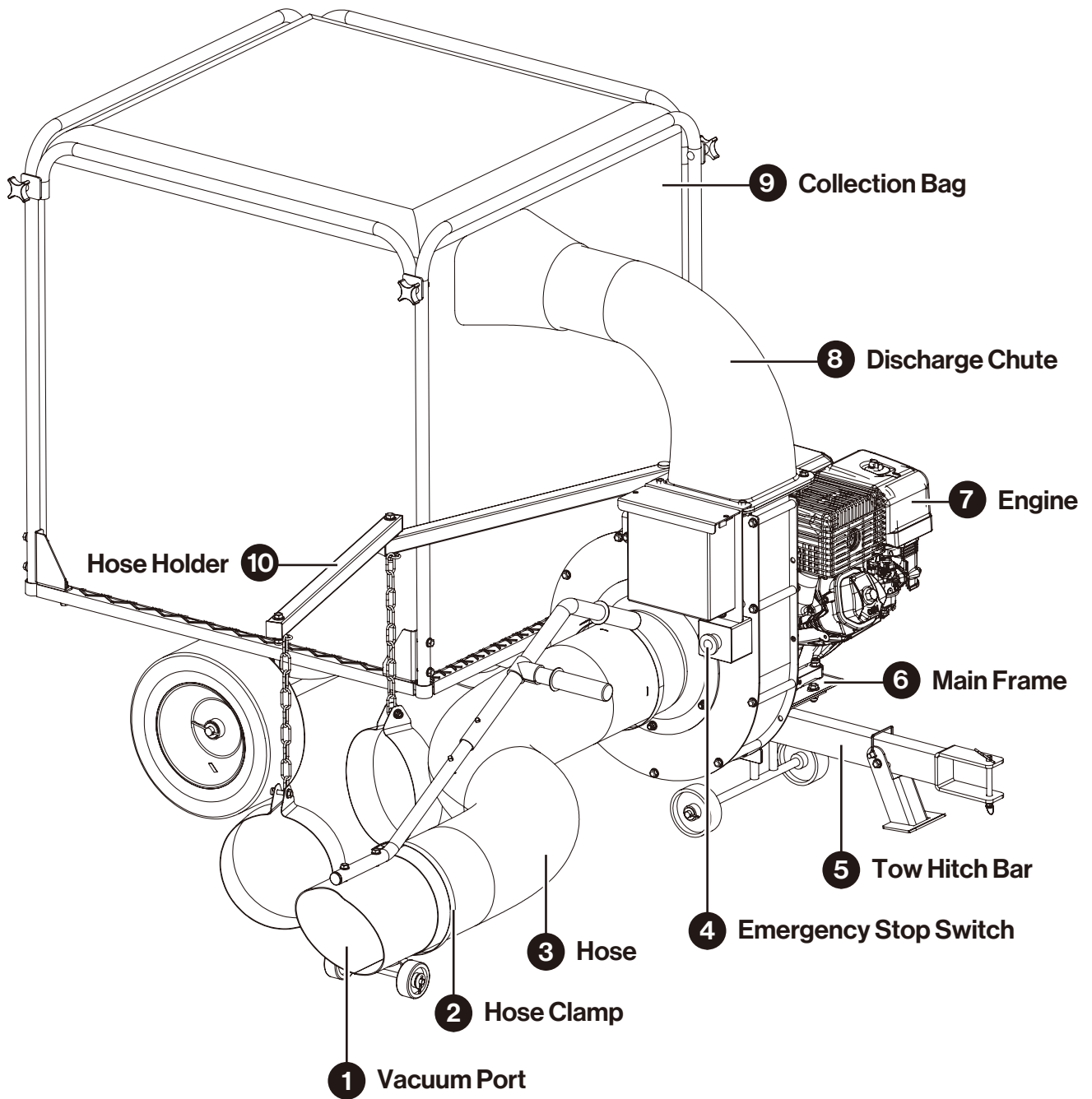
Technical Specifications

SKU#	GU0142
Impeller Diameter	16" (400 mm)
Vacuum Hose	8"x10' (203x3000 mm)
Collection Bag	24cu.ft. (680 L)
Wheel Size	13"
Wheel Type	Pneumatic Tires
Assembled Dimension	78"x38"x50"(1976x965x1270 mm)

Engine Specifications

Engine Type	OHV
Power	15 HP
Starting	Electric
RPM	3600
Oil	10W-30
Working Temperature	5°C~40°C

Main Components



Recommended Tools



Open-end Wrench
10mm (x2), 12mm, 13mm, 14mm,
15mm, 17mm, 18mm

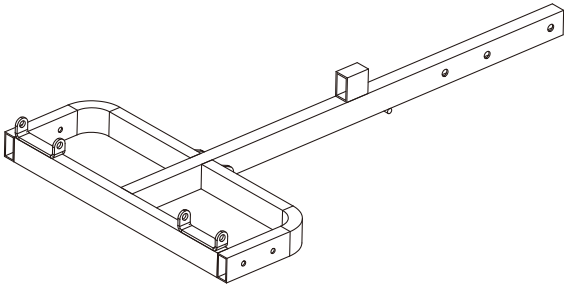


Slotted Screwdriver

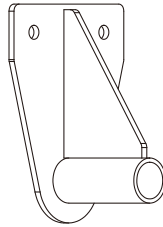


Phillips Screwdriver

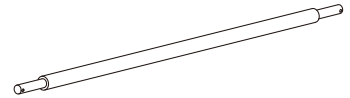
Part List



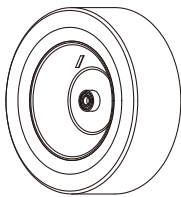
Main Frame



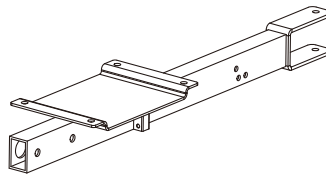
Wheel Mounting Bracket (x2)



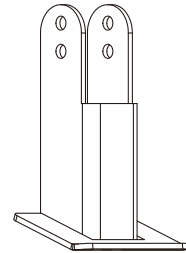
Wheels Axle



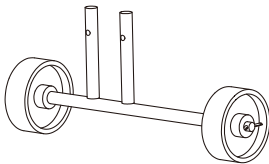
13" Wheel (x2)



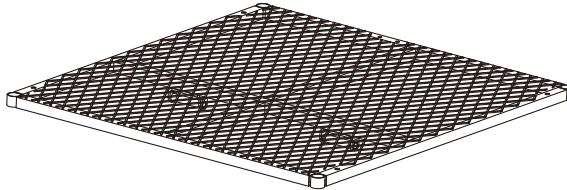
Tow Hitch Bar



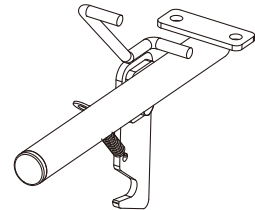
Supporting Stand



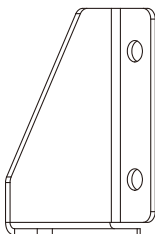
Front Wheel



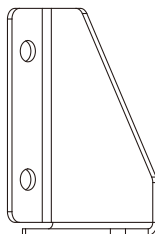
Bottom Frame



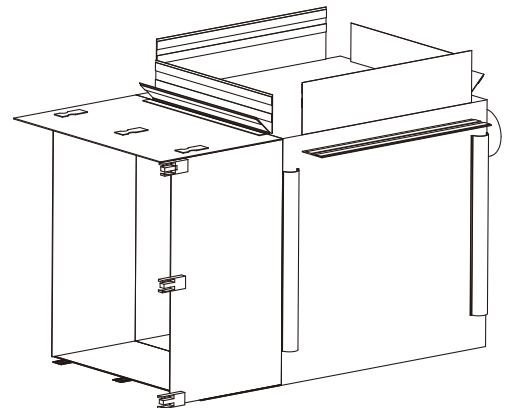
Dumping Handle



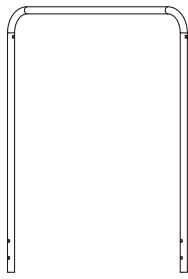
Guard Bracket Right (x2)



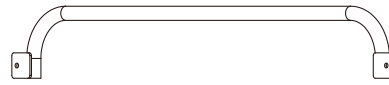
Guard Bracket Left (x2)



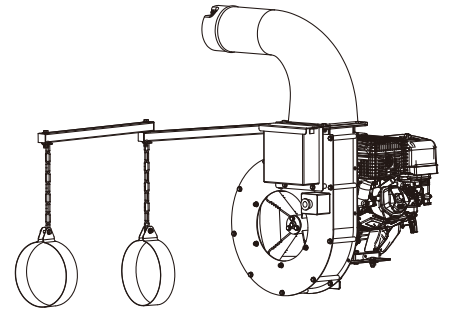
Collection Bag



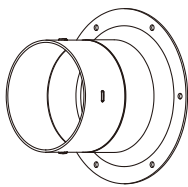
Front & Rear Guardrail (x2)



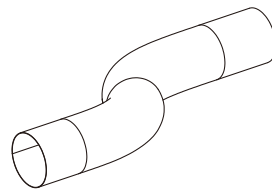
Left & Right Guardrail (x2)



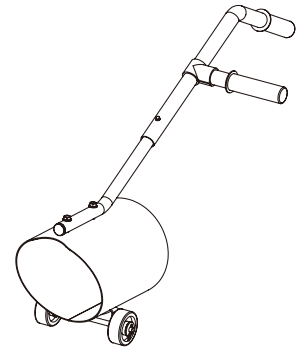
Engine Assembly Kit



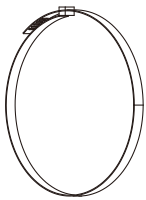
Hose Flange



Hose



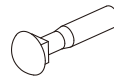
Vacuum Port



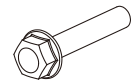
Hose Clamp (x2)



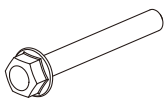
M6x30 Bolt (x2)



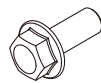
M8x40 Carriage Bolt (x4)



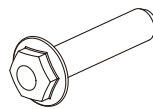
M8x45 Bolt (x18)



M8x65 Bolt (x1)



M10x25 Bolt (x4)



M12x55 Bolt (x3)



M6 Nut (x2)



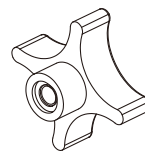
M8 Nut (x25)



M10 Nut (x4)



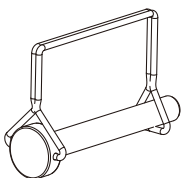
M12 Nut (x3)



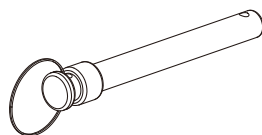
M8 Star-Shape Nut (x4)



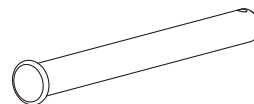
R-Pin (x5)



Square -Pin (x1)



10-Pin (x1)



12-Pin (x2)



16 Flat Washer (x4)

Assembly

Step-1 Assemble the Main Frame

Recommended Tools:
12mm Open-end wrench
13mm Open-end wrench

- a. Install the 2 wheel mounting bracket at the fix the main frame by 4 M8x45 bolts and 4 M8 nuts. **(Fig.01)**

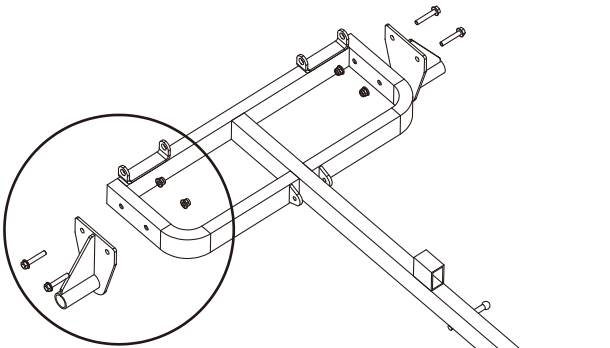
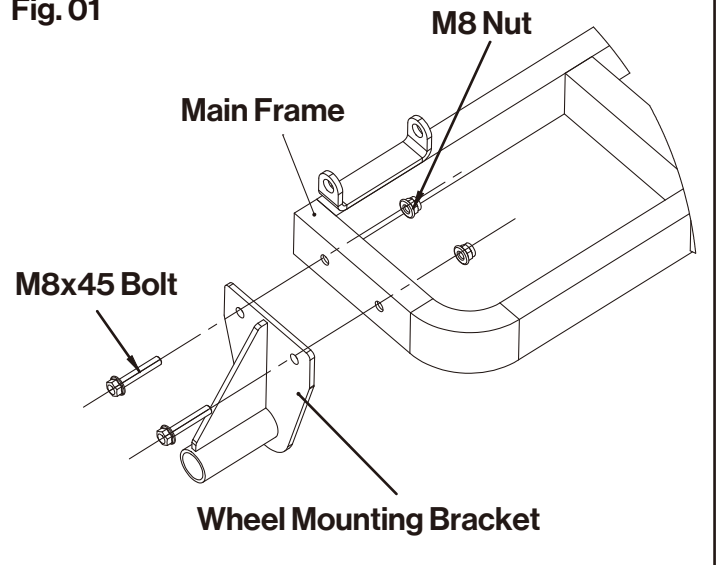


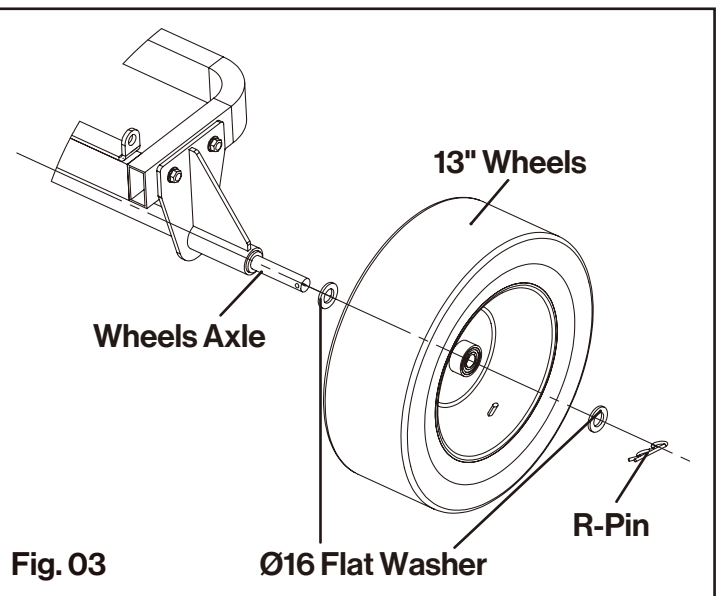
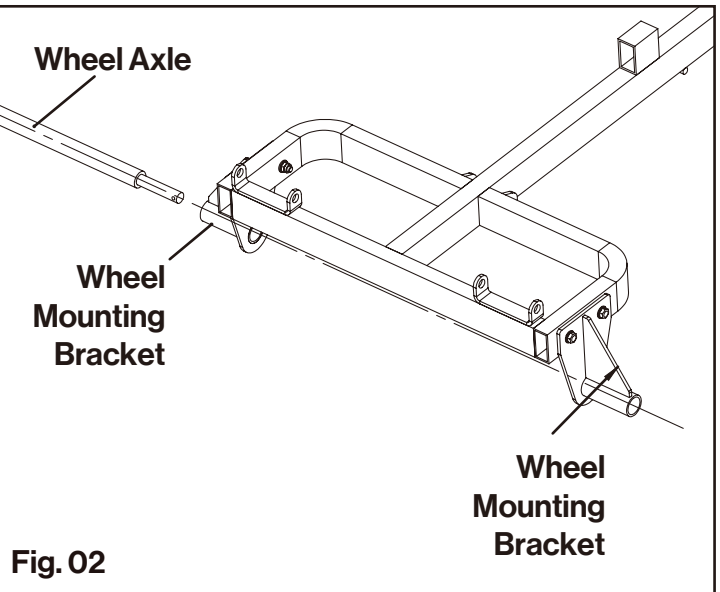
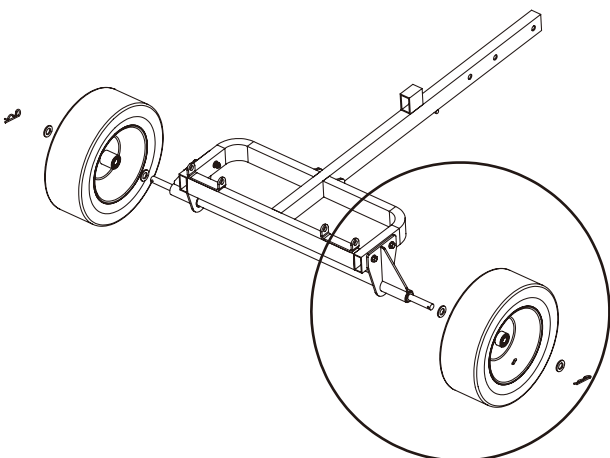
Fig. 01



Step-2 Assemble the Rear Wheels

- a. Pass the wheel axle through the 2 wheel mounting bracket. **(Fig.02)**

- b. Install the 2 13" wheels on both sides of the wheel axle, and fixing them with 2 R- pins and 4 ϕ 16 flat washers. Bend the R- pin to fix. **(Fig.03)**



Step-3 Assemble the Support Stand

Recommended Tools:
12mm Open-end wrench
13mm Open-end wrench

a. Insert the $\phi 10$ pin through the tow hitch bar and fix it with the R-pin. **(Fig.04)**

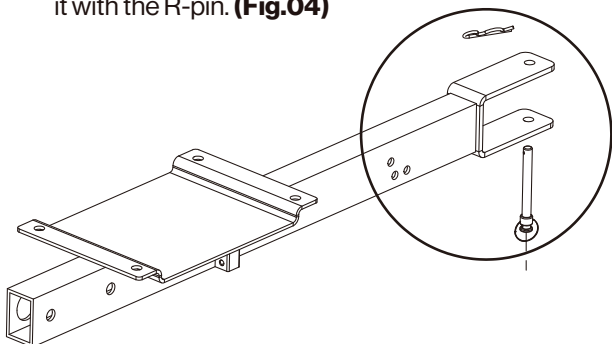
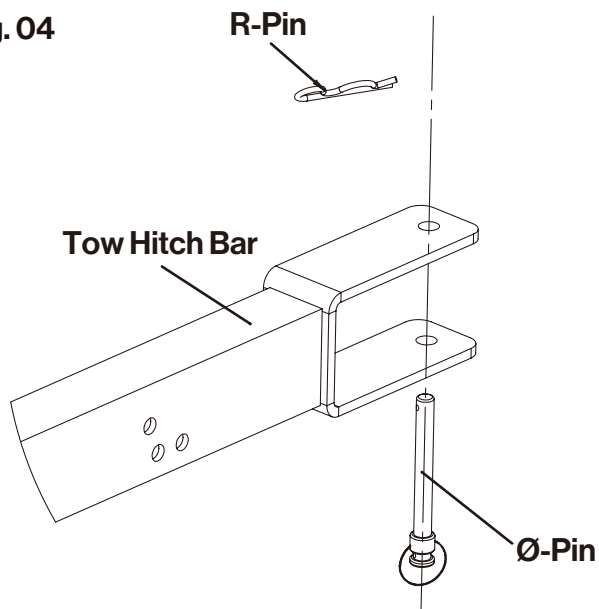


Fig. 04



b. Install the supporting stand at the tow hitch bar by M8x65 bolt and M8 nut and square pin. **(Fig.05)**

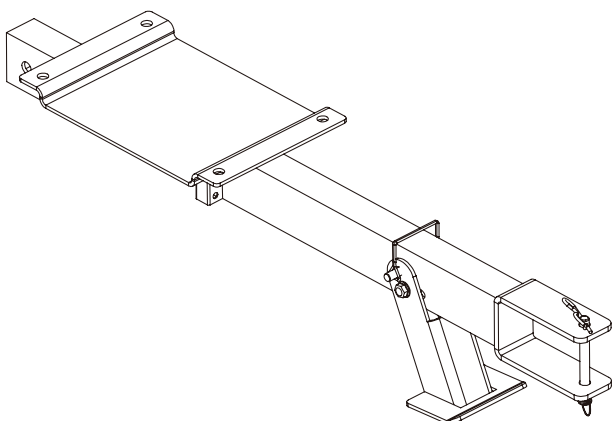
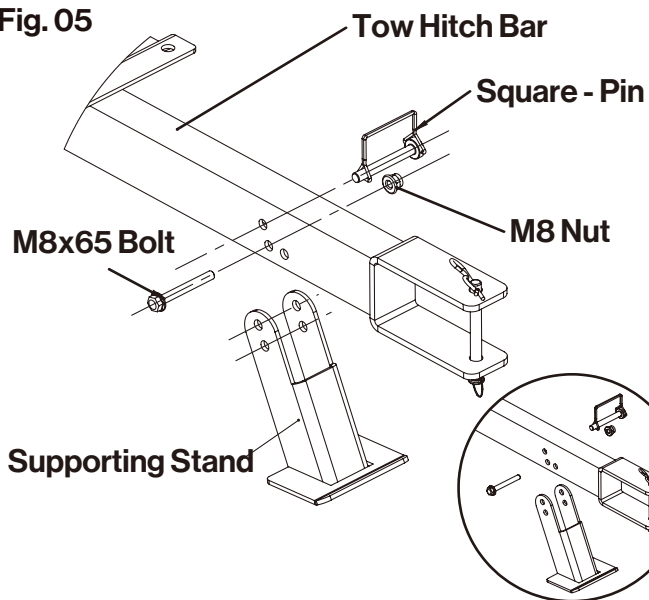


Fig. 05



Step-4 Assemble the Tow Hitch Bar

Recommended Tools
17mm Open-end wrench
18mm Open-end wrench

a. Insert the tow hitch bar into the main frame and fix it with 3 M12x55 bolts and 3 M12 nuts **(Fig.06)**

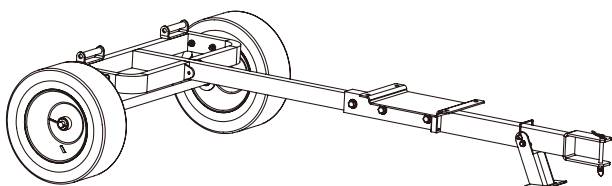
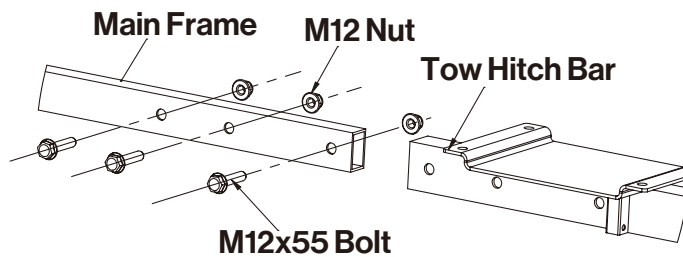


Fig. 06



Step-5 Assemble the Front Wheel

Recommended Tools:

10mm Open-end wrench (x2)

- Insert front wheel axle into tow hitch bar and fix it with 2 M6x30 bolts and 2 M6 nuts. **(Fig.07)**

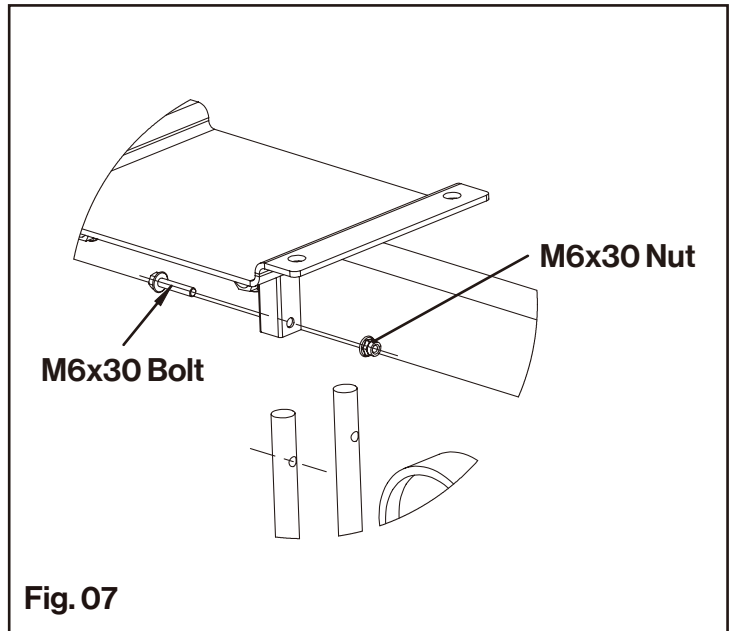
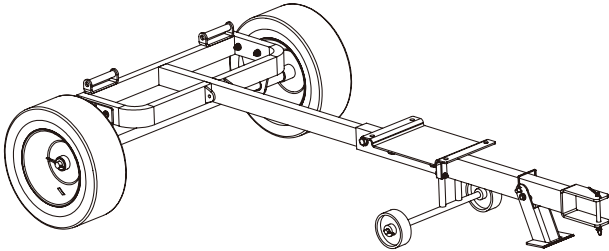


Fig. 07

Step-6 Assemble the Bottom Frame

- Place the bottom frame on the main frame and fix it with 2 ϕ 12 pins and 2 R-pins. **(Fig.08)**

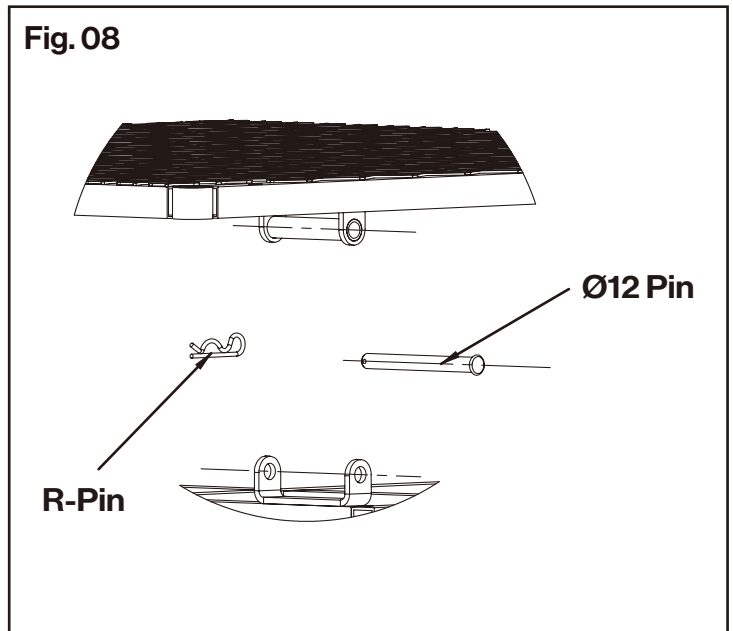
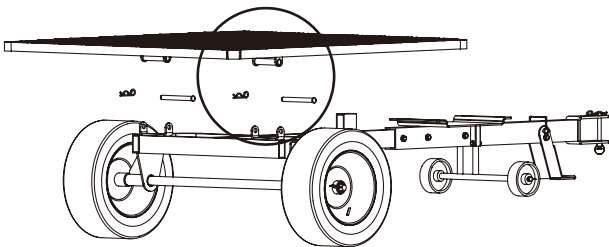


Fig. 08

Step-7 Assemble the Dumping Handle

Recommended Tools:

12mm Open-end wrench

13mm Open-end wrench

- Fix the bottom frame and dumping handle with 2 M8x45 bolts and 2 M8 nuts. **(Fig.09)**

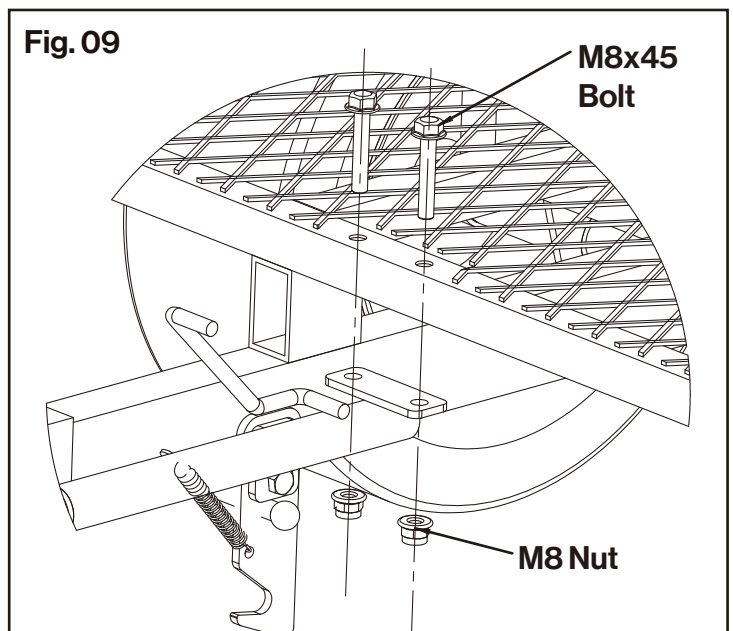
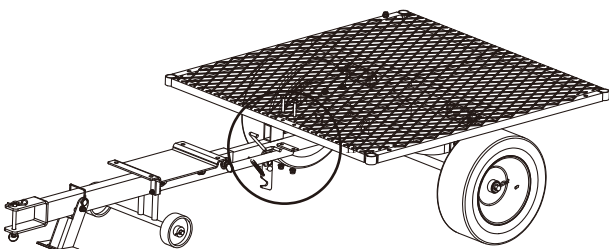


Fig. 09

Step-8 Assemble the Guard Brackets

Recommended Tools:
12mm Open-end wrench
13mm Open-end wrench

- a. Place the 2 guard brackets left on the bottom frame and fix it with 2 M8 nuts and 2 M8x45 bolts. Use the same way to finish the installation for 2 guard brackets right. **(Fig.10)**

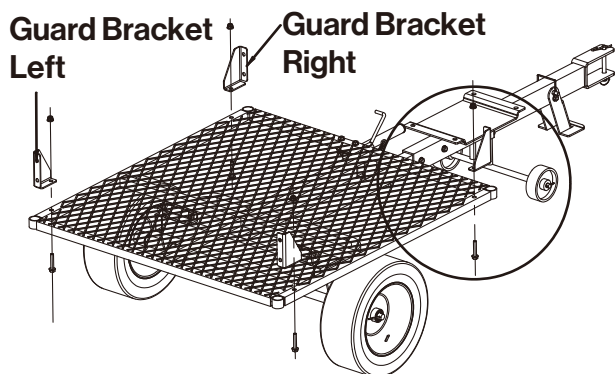
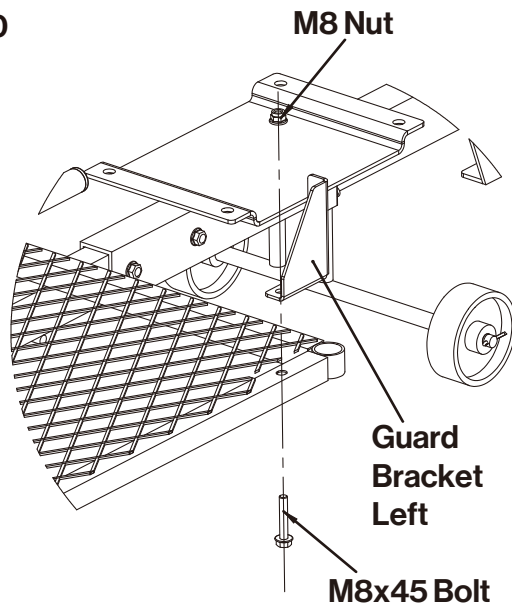


Fig. 10

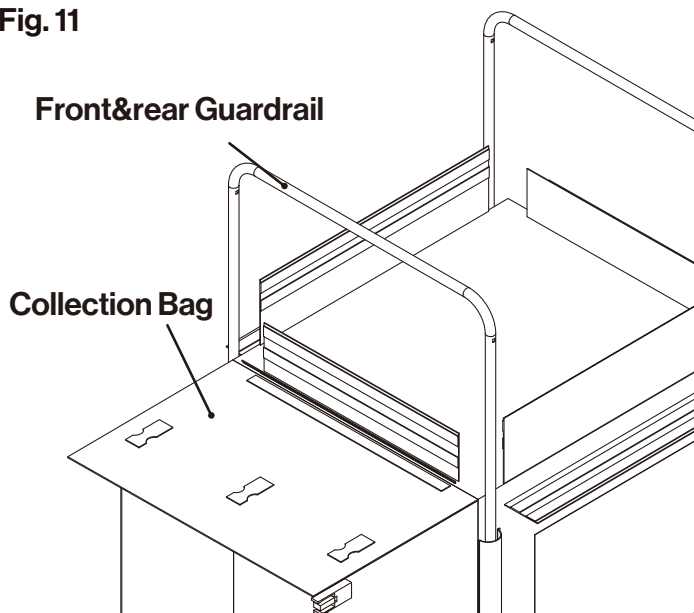


Step-9 Assemble the Collection Bag

Recommended Tools:
12mm Open-end wrench
13mm Open-end wrench

- a. Insert the front and rear guardrail into the collection bag. **(Fig.11)**

Fig. 11



- b. Install the front and rear guardrail on the 4 guard brackets of bottom frame and fix it with 8 M8x45 bolts and 8 M8 nuts. **(Fig.12)**

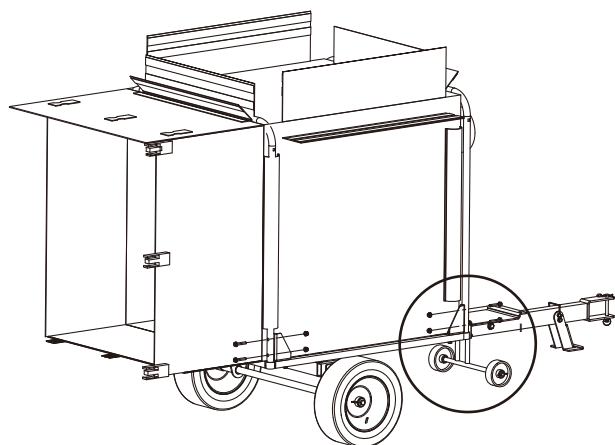
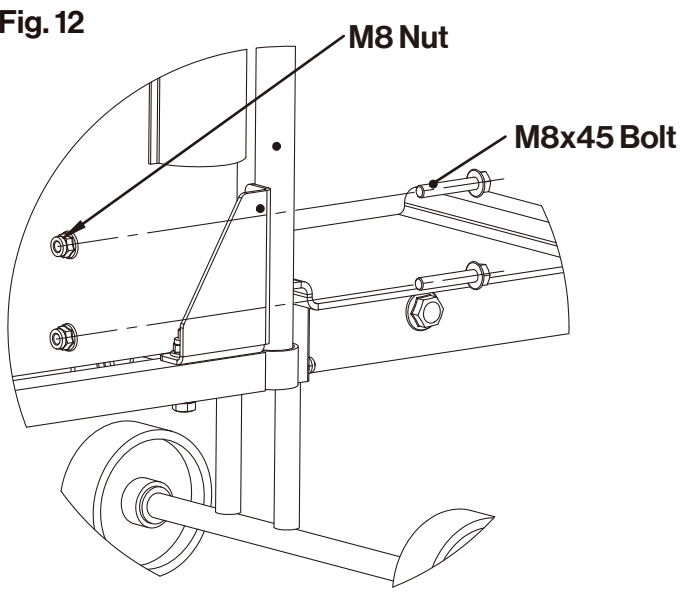


Fig. 12



Step-10 Assemble the Guardrails

- a. Fix the front & rear guardrail and the left & right guardrail with 4 M8x40 carriage bolts and 4 M8 star-shape nut. **(Fig.13)**
- b. When closing the collection bag, ensure that all buckles and Velcro strips are securely fastened. First, tighten the buckles on the top and bottom sides of the collection bag, and then fasten the buckles on the left and right sides.

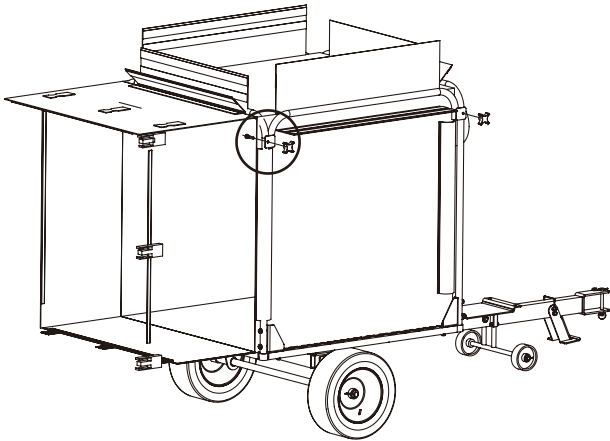
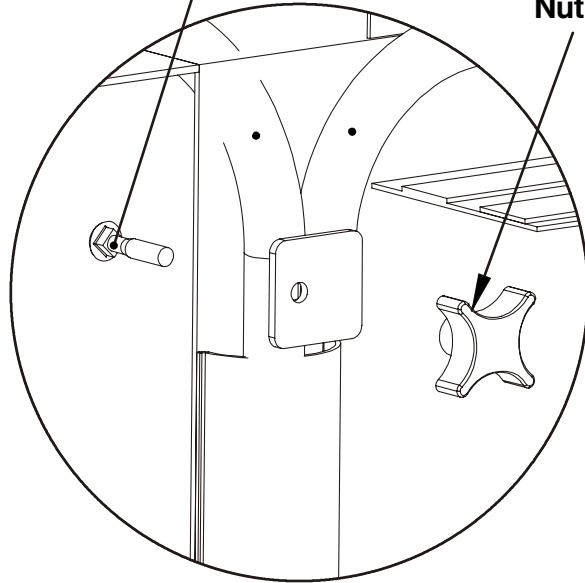


Fig. 13

M8x40
Carriage Bolt

M8
Star-shape
Nut



Step-11 Assemble the Engine Assembly Kit

Recommended Tools:
14mm Open-end wrench
15mm Open-end wrench

- a. Place the engine assembly kit on the tow hitch bar and fix it with 4 M10x25 bolts and 4 M10 nuts.
- b. Insert discharge chute into the collection bag. **(Fig.14)**

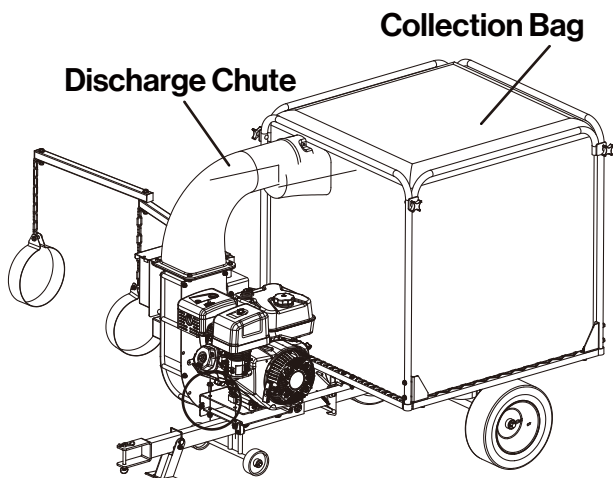
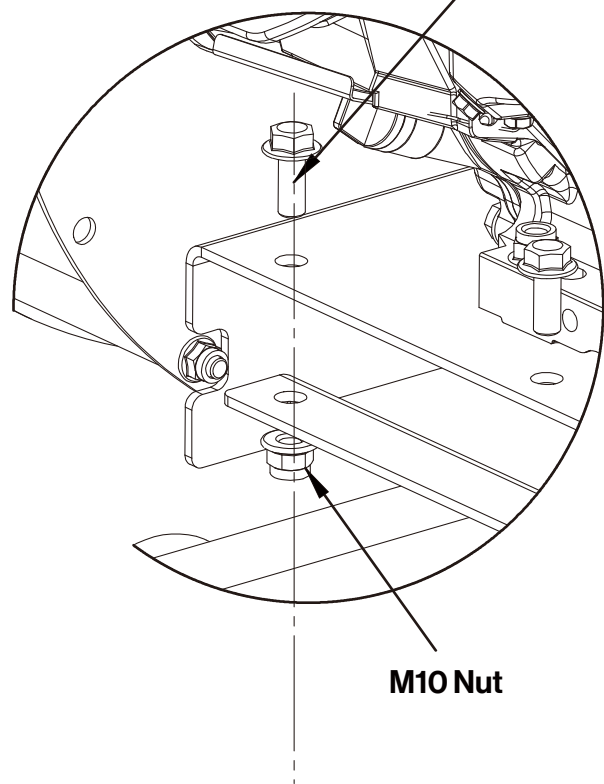


Fig. 14

M10x25 Bolt

M10 Nut



Step-12 Assemble the Hose Flange

Recommended Tools:
13mm Open-end wrench

- Install the hose flange at the front of engine assembly kit, fixing by 6 M8 nuts. **(Fig.15)**

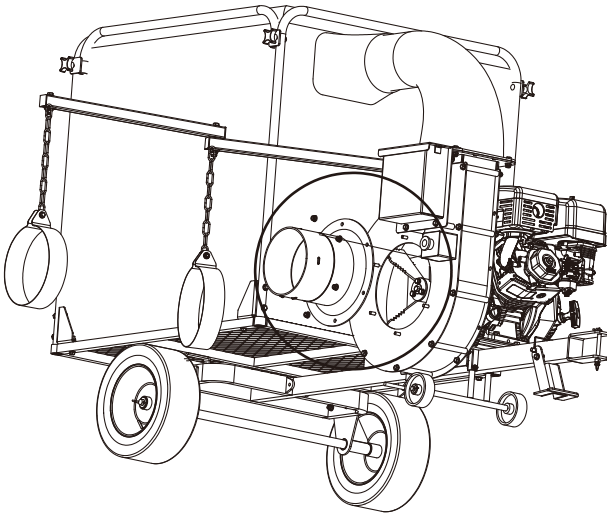
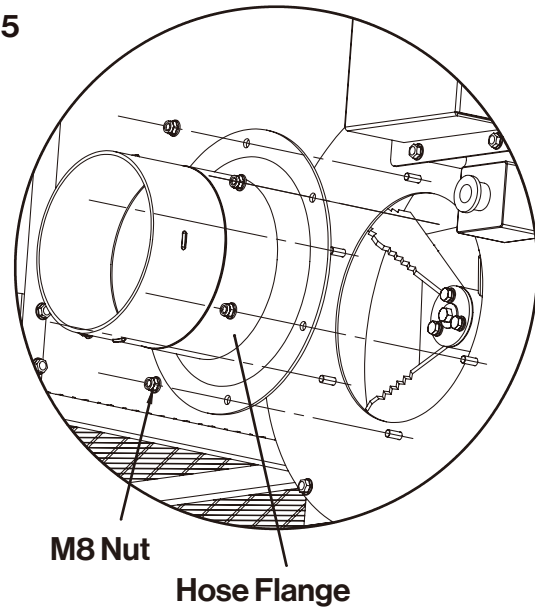


Fig. 15



Step-13 Assemble the Hose

Recommended Tools:
Slotted Screwdriver

- Insert one hose end with the hose flange by tightening the hose clamp. **(Fig.16)**

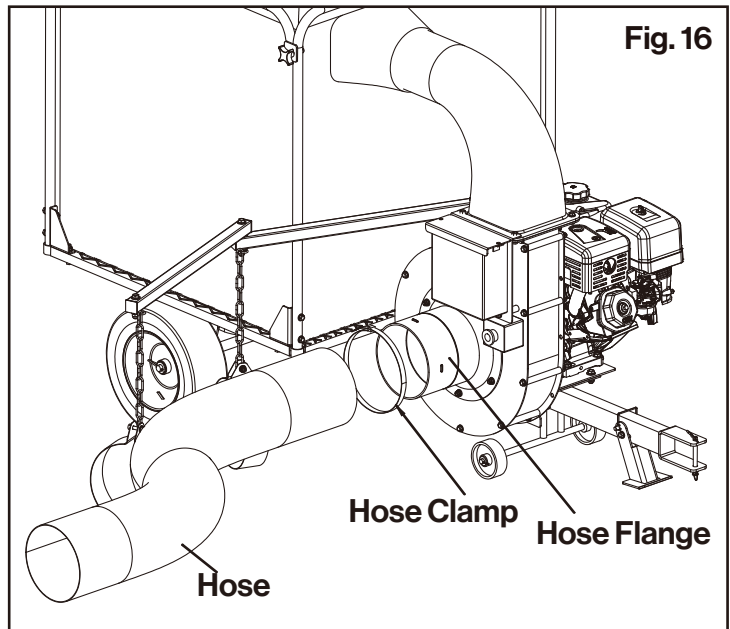


Fig. 16

Step-14 Assemble the Vacuum Port

Recommended Tools:
Slotted Screwdriver

- *. The hose holder may be required during transportation or use. Insert the hose into the ring of the hose holder.
- Insert the other end of the hose into the Vacuum Port and securely fasten it using a hose clamp. **(Fig.17)**

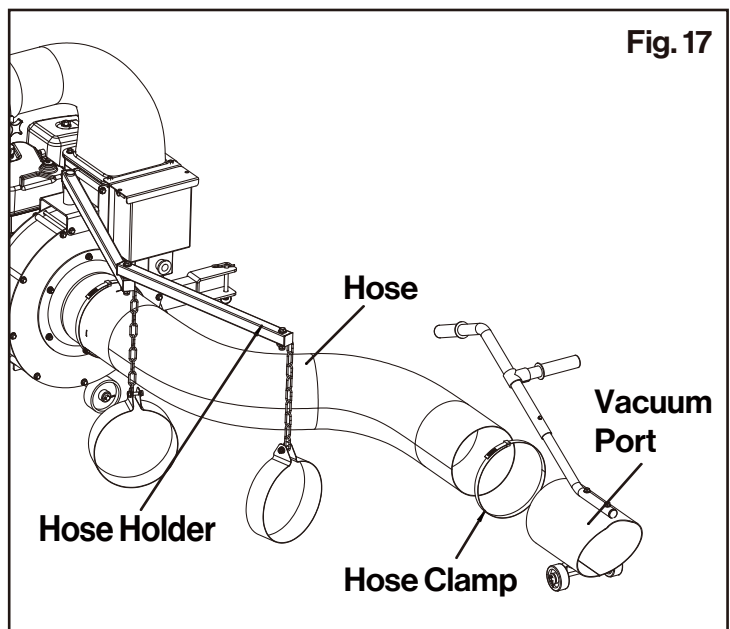


Fig. 17

Step-15 Connecting the Battery

Recommended Tools:
12mm Open-end wrench
13mm Open-end wrench
Phillips Screwdriver

- Loosen 2 M8x20 bolts and 2 M8 nuts remove the battery cover.
- Connect the cables to the battery: Red wire to the positive terminal (red), black wire to the negative terminal (black or blue).
- Replace the cover and tighten the battery box using 2 M8x20 bolts and 2 M8 nuts. **(Fig.18)**

WARNING

Reversing the power cables will damage the engine and cause product failure. Ensure correct connections.

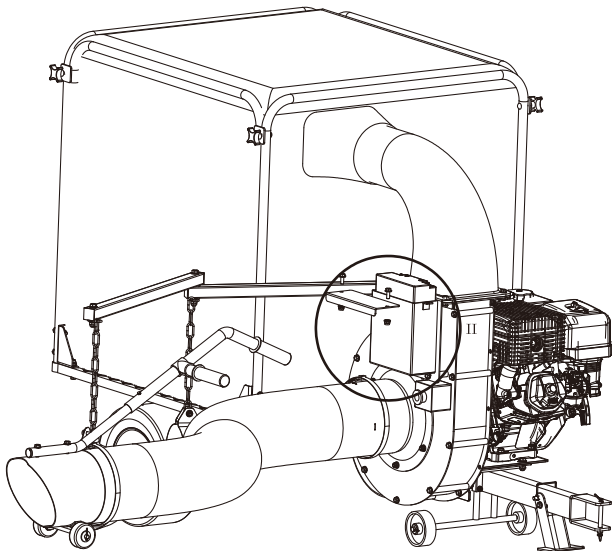
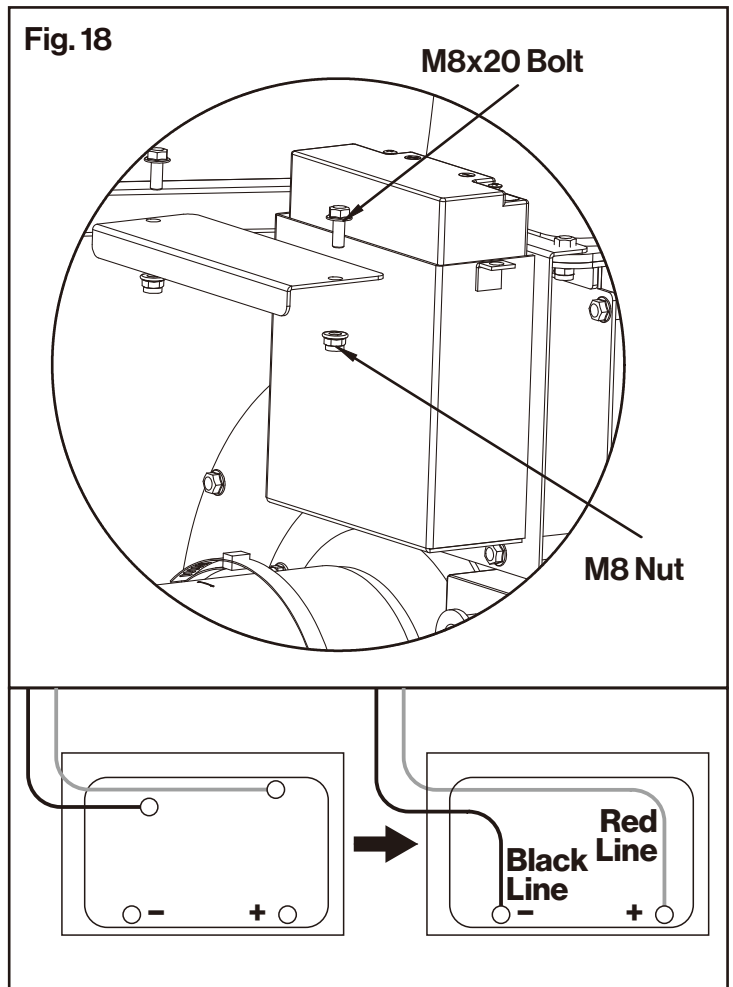


Fig. 18



Operation

Preparing For Operation

1. Check that all bolts are not loose before operation.
2. Keep the engine supplied with sufficient gasoline and oil.

DANGER

- 1. THE EXHAUST FROM THIS PRODUCT CONTAINS CARBON MONOXIDE GAS. CARBON MONOXIDE IS A COLORLESS, ORDERLESS AND TASTELESS GAS THAT CAN CAUSE DIZZINESS, NAUSEA, UNCONSCIOUSNESS OR EVEN BRAIN DAMAGE AND DEATH IF INHALED FOR PROLONGED PERIODS.**
- 2. OPERATE THE UNIT OUTDOORS IN A WELL VENTILATED LOCATION ONLY. KEEP CHILDREN, PETS AND BYSTANDERS AWAY.**
- 3. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.**

1. Engine Operation

Before cleaning, repairing, or inspecting, shut off the engine and make certain that all moving parts have come to a complete stop. Disconnect the spark plug wire and secure the wire away from the spark plug to prevent accidental starting.

Adding Fuel

Notice: The machine is shipped without fuel from the factory.

- Remove the fuel cap and fill the tank without overfilling.
- Leave room for fuel expansion as per the engine manual's recommendations.
- Hand tighten the fuel cap. Starting and Stopping the Engine.

Adding Oil

Notice: The machine is shipped without oil from the factory. Oil is a major factor affecting performance and service life.

Add engine oil according to the engine manual, and familiarize yourself with relevant knowledge and procedures.

Handle fuel with care; it is highly flammable.

1. Use an approved fuel container.
2. Never add fuel to a running engine or hot engine.
3. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
4. Before restarting the engine, please clean up spilled fuel before restarting.

Gasoline Fires and Handling Fuel Safely

Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.

1. When storing extra fuel be sure that it is in an appropriate container and away from any fire hazards.
2. Prevent fire and explosion caused by static electric discharge. Use only nonmetal, portable fuel containers.
3. If necessary, the fuel in the engine tank should be discharged outdoors. The discharged fuel should be handled carefully and stored in professional non-metallic fuel containers. Please store the fuel tank in the area with good ventilation conditions. Do not store the fuel tank indoors.
4. Never remove the fuel cap or add fuel with the engine running. Stop engine and allow to cool before filling.
5. Do not smoke while refueling or operating engine.
6. Never drain fuel from the engine in an enclosed area.
7. Always wipe up excess (spilled) fuel from engine before starting. Clean up spilled fuel immediately. If fuel is spilled, do not start the engine.
8. Test the fuel cap for proper installation before starting and using engine.
9. Never siphon fuel by mouth to drain fuel tank.
10. Always have an adult fill the fuel tank and never allow children to fill the tank.
11. Never allow an adult or anyone under the influence of drugs or alcohol to fill tank.
12. When storing gasoline or machine with fuel in the tank, store away from furnaces, stoves, water heaters or other appliances that have a pilot light or other ignition source because they can ignite gasoline vapors.

Starting / Stopping the Engine

1. Follow the engine manual for starting and shutting down procedures. Ensure the engine is running at full throttle before operation. For engines with adjustable throttle, move it to the SLOW position, wait for the engine to run at a slow RPM, and then switch to STOP ENGINE as described in the manual. Stopping the engine is crucial to halt the rotor from turning. Tips for Starting, Interrupting Operation, and Shutdown.
2. Start the engine as instructed in the manual, keeping hands and feet away from the vacuum suction or discharge chute. Do not adjust the engine governor settings or over speed it to avoid hazards.

Interrupting the Engine

1. Do not reposition the machine while it is running, as it may tip over and cause injury. Never leave the machine running unattended. Park the machine on flat ground, turn off the engine, and inspect for any signs of damage or foreign material if unusual noise or vibration occurs.
2. When not in use, always turn off the engine, wait for the impeller to stop, and disconnect the spark plug before moving the unit to a safe storage area. If equipped with a fuel valve, switch the throttle to low speed and shut down the fuel valve after the engine is stopped. Refer to the engine manual for specific shutdown details.

Prevention of Burns and Fires

1. Never remove the muffler guard from the engine.
2. Never touch the muffler guard because it is extremely hot and will cause severe burns.
3. Never touch parts of the engine that become hot after operation.
4. Always keep materials and debris away from muffler guard and other hot parts of the engine to avoid fires.

2. Tow Hitch Bar Operation

1. Pull out the square pin, retract the supporting stand, and secure them using the extracted square pin. **(Fig.19)**

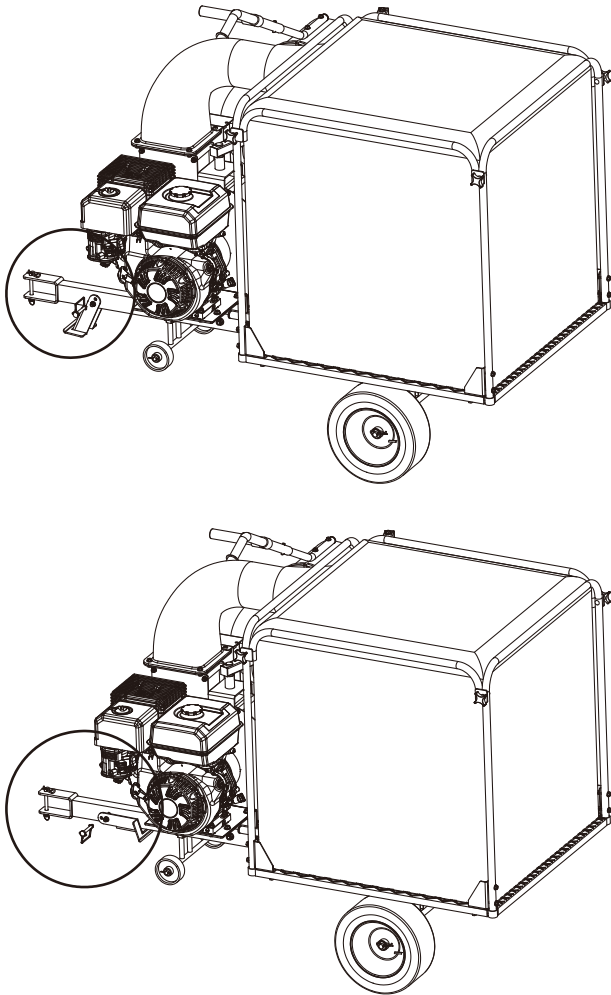
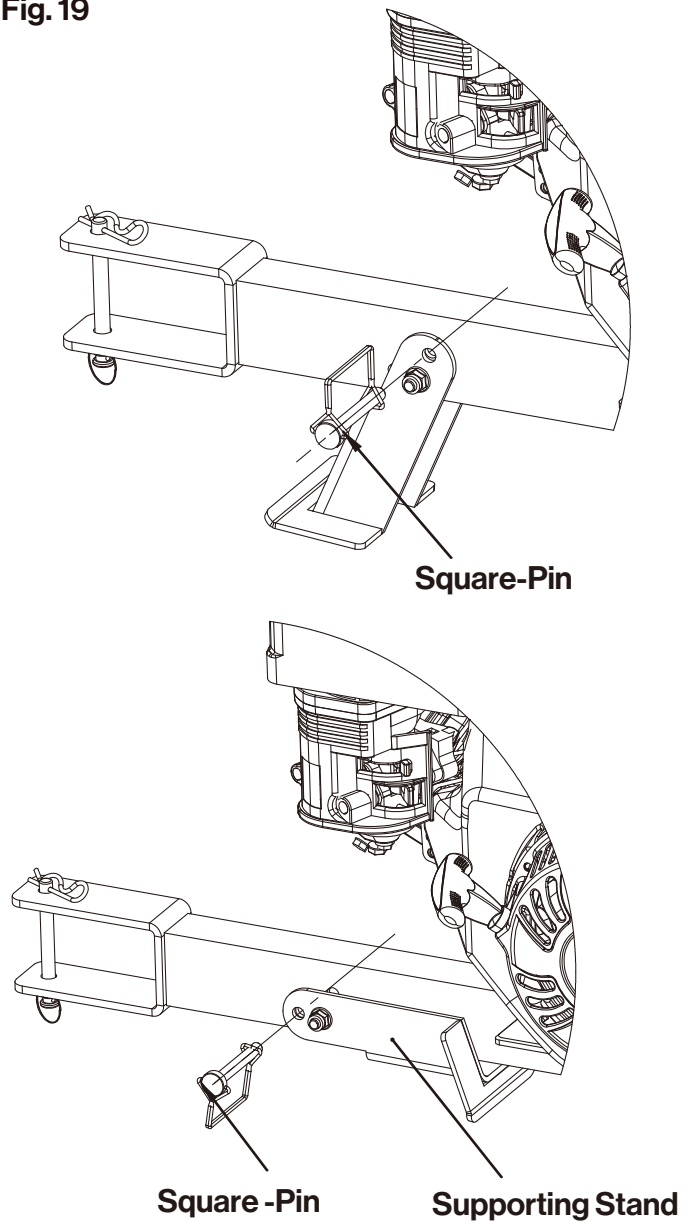


Fig. 19



2. After removing the $\phi 10$ pin and R-pin, connect the tow hitch bar to the towing equipment using the extracted $\phi 10$ pin and R-pin. **(Fig.20)**

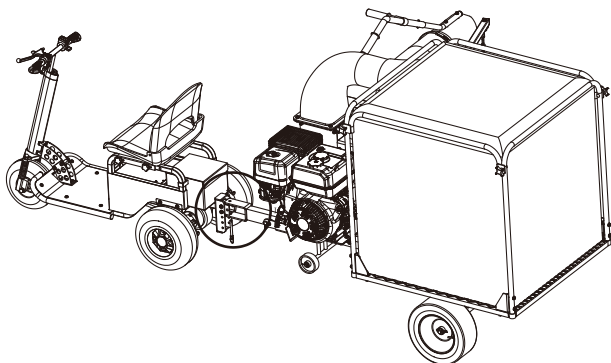
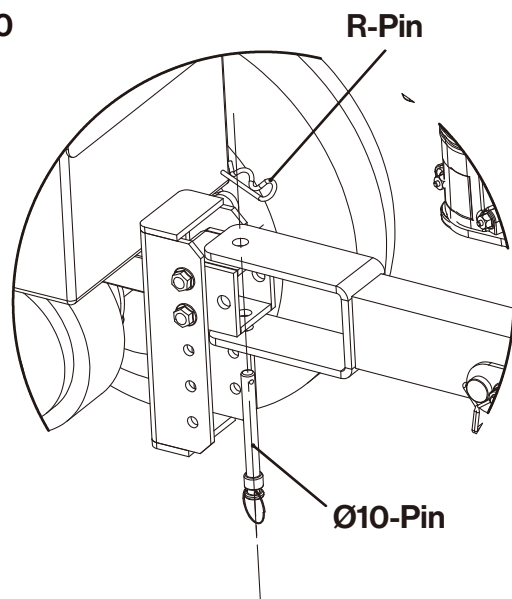
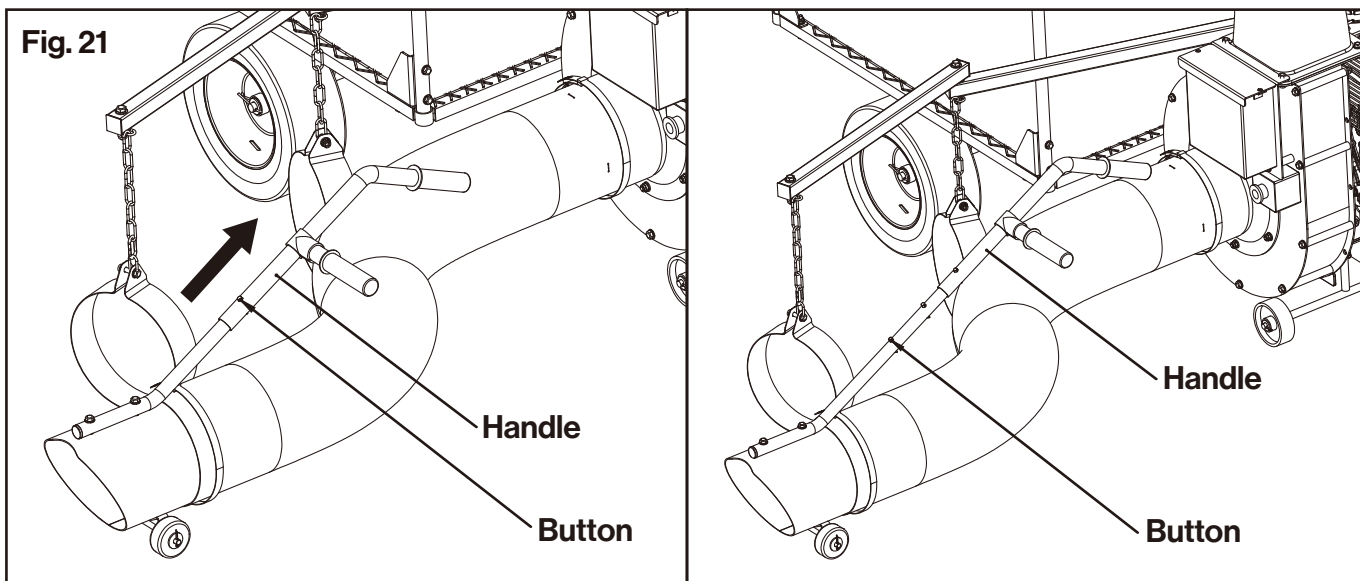


Fig. 20

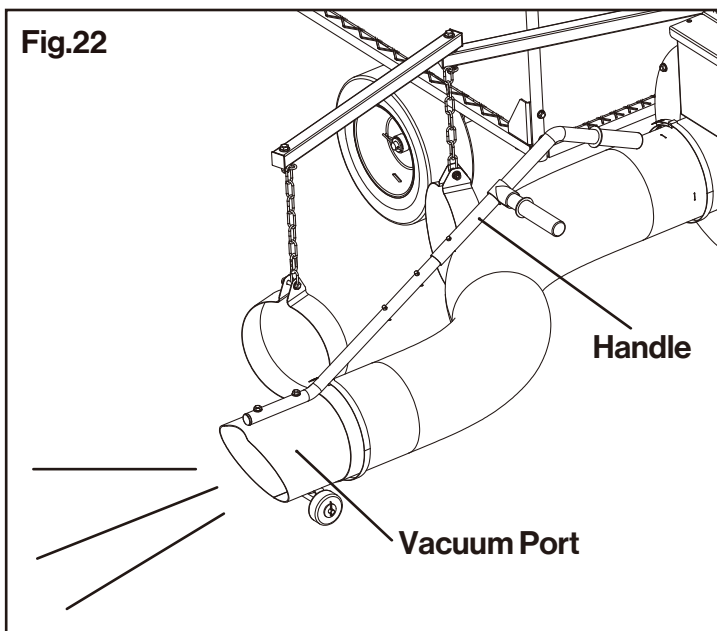


3. Vacuum Operation

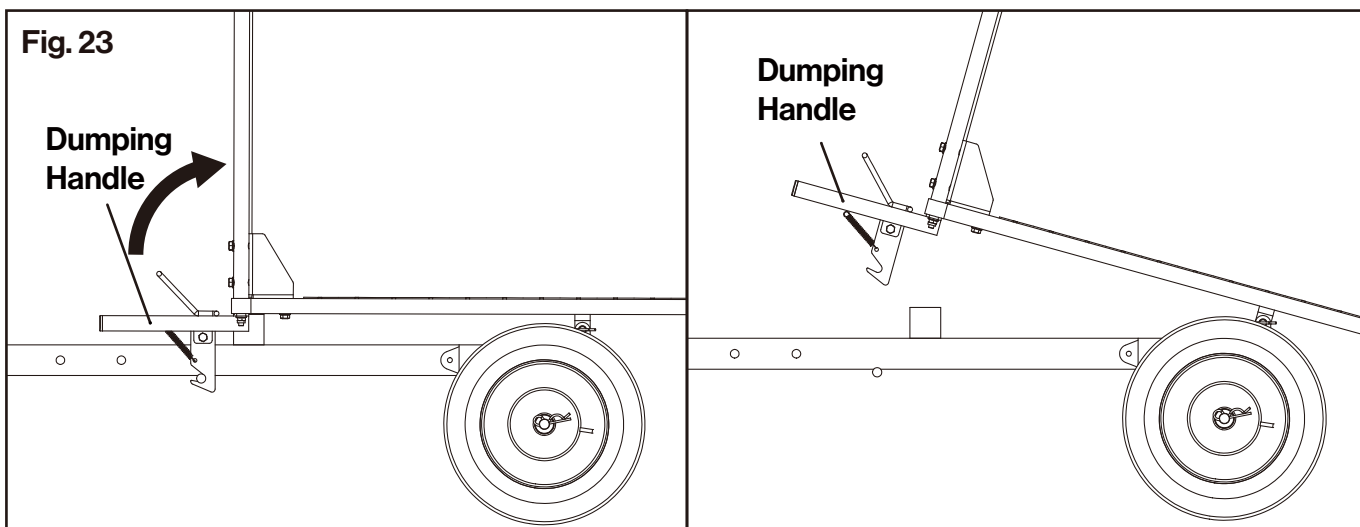
1. Press and hold the button to adjust the handle height as needed. **(Fig.21)**



2. Once the engine is started, the vacuum port will begin drawing material. Starting the engine, move the machine to the working area. the vacuum port will begin drawing material. **(Fig.22)**



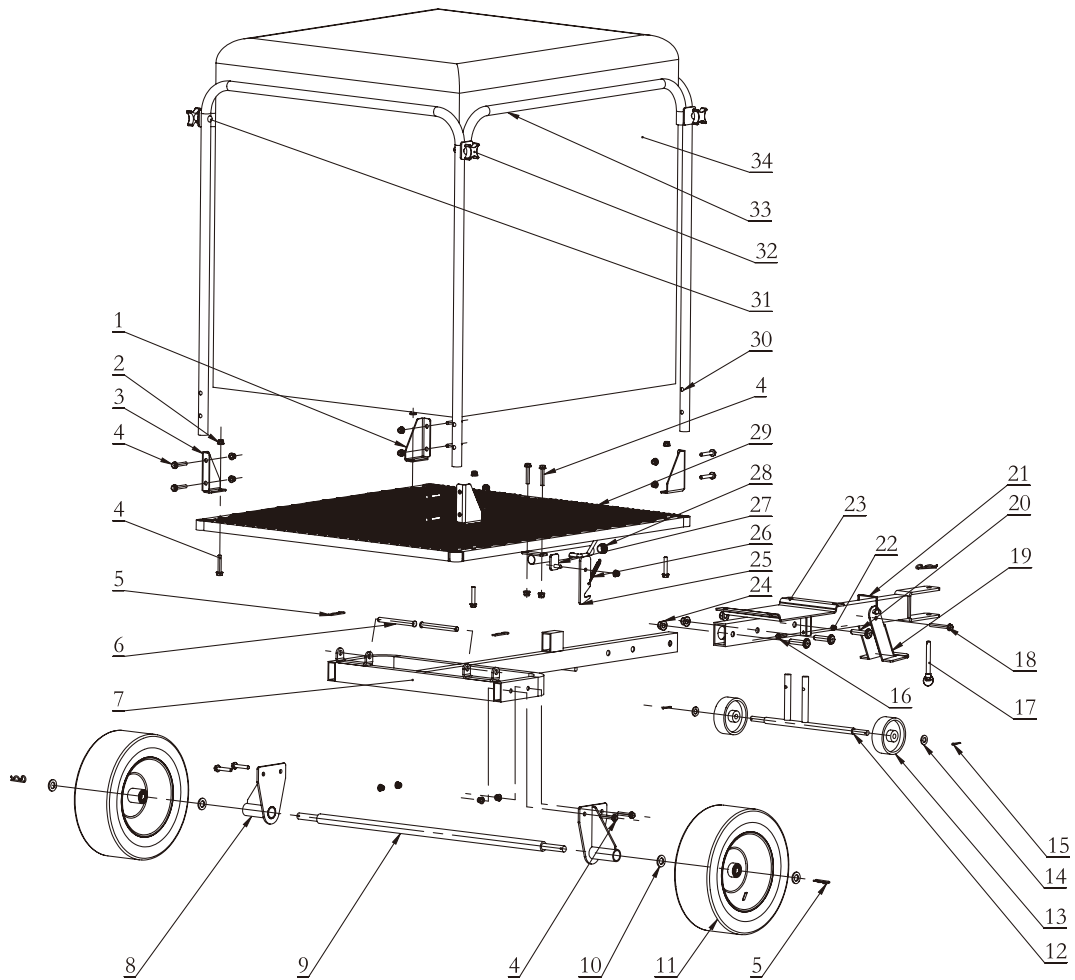
3. After turning off the engine, open the collection bag and lift the dumping handle to discharge waste. **(Fig.23)**



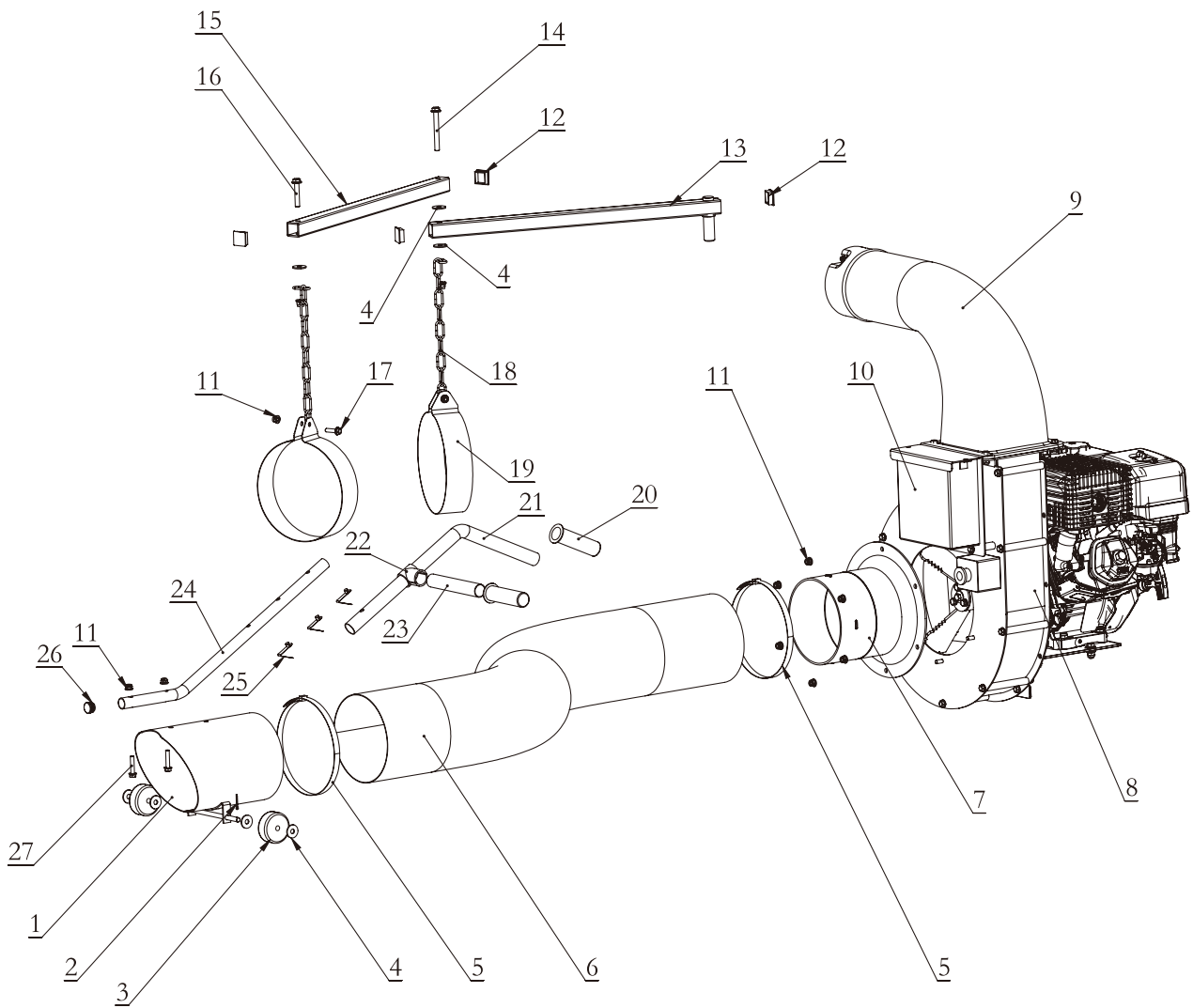
Troubleshooting

Issue	Possible Cause	Solution
Engine won't start.	1. No fuel.	1. Add fuel.
	2. Choke not in START position.	2. Turn choke to START position.
	3. Low quality or deteriorated, old gasoline.	3. Use fresh unleaded gasoline.
	4. Dirty fuel passageways.	4. Clean out passageways using fuel additive. Heavy deposits may require further cleaning.
	5. Spark plug cap not connected securely.	5. Connect spark plug cap properly.
	6. Spark plug fouled.	6. Remove spark plug. Clean/replace as recommended in engine manual.
	7. No compressions. Problem after long storage periods.	7. Lubricate the cylinder, pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again.
	8. Low engine oil.	8. Add engine oil to proper level.
Engine exhaust is black.	1. Dirty air filter.	1. Replace air filter.
	2. Choke closed.	2. Open choke.
Engine stops suddenly.	1. Fuel tank empty or full of impure or low quality gasoline.	1. Add fuel tank with fresh unleaded gasoline.
	2. Low oil shutdown.	2. Fill engine oil to proper level.
	3. Disconnected or improperly connected spark plug cap.	3. Secure spark plug cap.
Engine runs but no material is discharged.	1. Discharge chute clogged.	1. Clean out debris.
	2. Engine not running at full speed.	2. Set throttle control to FAST if equipped.
Vacuum not working.	1. Hose not attached properly.	1. Clear blockage or replace.
	2. Engine not running at full RPM.	2. Set throttle control to FAST if equipped.

Exploded and Parts List



Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Guard Brackets Right	2	18	M8x65 Bolt	1
2	M8 Nut	19	19	Supporting Stand	1
3	Guard Brackets Left	2	20	M12x55 Bolt	3
4	M8x45 Bolt	18	21	Square Pin	1
5	R-Pin	5	22	M6 Nut	2
6	φ12 Pin	2	23	Tow Hitch Bar	1
7	Main Frame	1	24	M12 Nut	3
8	Wheel Mounting Bracket	2	25	Hook	1
9	Wheels Axle	1	26	Drag Spring	1
10	φ16 Flat Washer	4	27	Dumping Handle	1
11	13" Wheel	2	28	End Cap	1
12	Wheels Axle	1	29	Bottom Frame	1
13	Front Wheel	2	30	Front & Rear Guardrail	2
14	φ12 Flat Washer	2	31	M8x40 Carriage Bolt	4
15	Cotter pin	2	32	M8 Star-shape Nut	4
16	M6x30 Bolt	2	33	Left & Right Guardrail	2
17	φ10 Pin	1	34	Collection Bag	1



Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Vacuum Port	1	15	Hose Holder Arm	1
2	Cotter Pin	2	16	M10x55 Bolt	1
3	Wheel	2	17	M8x30 Bolt	2
4	Washer	7	18	Chain	2
5	Hose Clamp	2	19	Ring	2
6	Hose	1	20	Handle Sleeve	2
7	Hose Flange	1	21	Top Handle-bar	1
8	Engine Assembly Kit	1	22	Handle link	1
9	Discharge Chute	1	23	Left Handle-bar	1
10	Bttery Box	1	24	Bottom Handle-bar	1
11	M8 Nut	10	25	Button	3
12	End Cap	4	26	End Cap	1
13	Hose Holder Mast	1	27	M8x40 Bolt	2
14	M10x90 Bolt	1			

Maintenance and Storage

Engine Maintenance

Refer to the engine manual included in your package for information on engine maintenance. Your engine manual provides information and a maintenance schedule for performing the following tasks:

1. Always check oil level before starting engine. Refer to engine manual for capacity and type of oil to use.
2. Change oil after first 5-8 hours of operation. Change oil while engine is warm. Refill with new oil of recommended grade.
3. Check spark plug yearly or every 50 hours of operation.
4. Service air cleaner.
5. Keep engine and parts clean.
6. Check engine and equipment often for loose nuts and bolts, keep these items tightened.

Check for Loose Hardware

1. Service Interval: Every 5 hours; every spring and fall.
2. Inspect the unit, checking for loose hardware or components.

Vacuum System Maintenance

1. Maintenance Interval: Every 50 hours of operation or when suction power decreases.
2. Check vacuum pipelines for blockages or leaks.
3. Inspect fan blades for damage.
4. Ensure all seals are intact.
5. Clean the collection container promptly after use.
6. Perform a thorough system cleaning before long-term storage.

IMPORTANT

Engine is shipped from factory without oil. You must add engine oil before starting engine

CAUTION

1. For the safety of the user, and to maximize the life of the engine, it is crucial to take time to check the condition of the engine.
2. Problems must be corrected before operating.
3. Avoid injury! Engine oil is hazardous to your health. Dispose of oil appropriately.
4. Use a safe disposal/recycling center.

Transporting

1. When storing the product, it must be placed in a cool, dry, dust-free place, away from direct sunlight and rain.
2. During product transportation, loading and unloading, it is strictly prohibited to throw, drop, toss, trample and other barbaric operations.

Warranty

Twelve (12) months for workmanship of the product, except for wearing parts. Warranty period starts from the product purchase date. Warranty covers material quality and workmanship only. Warranty does not cover product for issues caused by improper usage or any operation not in accordance with the specifications of this manual. Any modification or tampering with the product in any way voids the warranty.



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