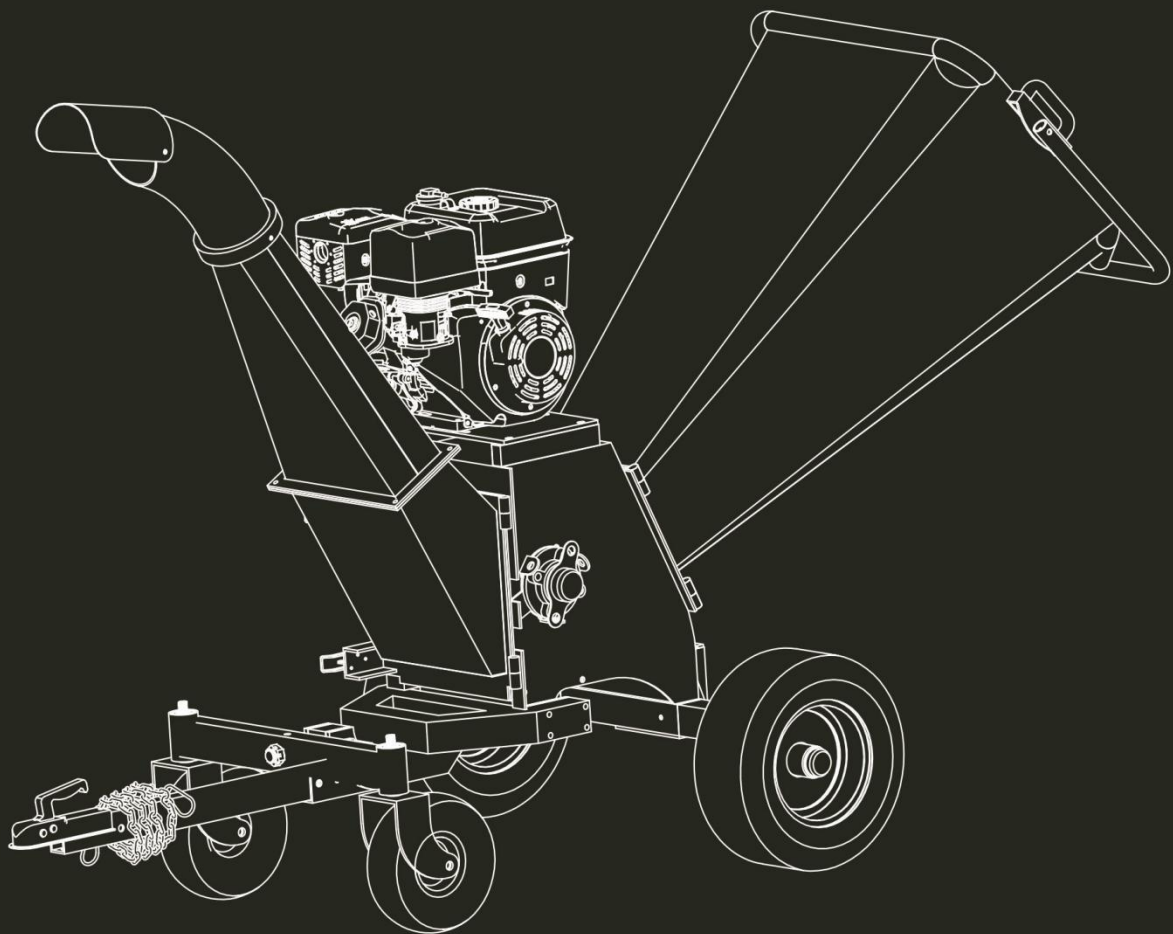


**HYUNDAI**  
POWER PRODUCTS

# PETROL PLANT SHREDDER

## HBT1515PRO

**ORIGINAL INSTRUCTIONS**



**CAUTION: Read this manual before using this machine!**

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# 1. SAFETY INSTRUCTIONS

**IMPORTANT  
READ CAREFULLY BEFORE USE  
KEEP FOR FUTURE REFERENCE**

## **Training**

Become familiar with the owner's manual before attempting to operate this equipment.

## **Preparation**

- 1) Do not allow children to operate this equipment;
- 2) Do not operate this equipment in the vicinity of bystanders;
- 3) Do not run engine powered machines in an enclosed area since the exhaust from an engine contains carbon monoxide, which is colourless, odourless, and tasteless; carbon monoxide can be extremely dangerous in enclosed areas;
- 4) Before inspecting or servicing any part of the machine, shut off the power source, disconnect the spark plug wire from the spark plug, and make sure that all moving parts have come to a complete stop.
- 5) Wear ear protection and safety glasses at all times while operating the machine;
- 6) Avoid wearing clothing that is loose fitting or that has hanging cords or ties;
- 7) Only operate the machine in open space (e.g. not close to a wall or other fixed object) and on a firm, level surface;
- 8) Do not operate the machine on a paved or gravel surface where ejected material could cause injury;
- 9) Before starting the machine, check that all screws, nuts, bolts, and other fasteners are properly secured and that guards and screens are in place. Replace damaged or unreadable labels;
- 10) Use extra care in handling fuels. They are flammable and the vapours are explosive. The following points should be observed:
  - use only an approved container;
  - Never remove the fuel cap or add fuel with the power source running. Allow engine and exhaust components to cool before refuelling;
  - do not smoke;
  - never refuel the machine indoors;
  - never store the machine or fuel container inside where there is an open flame, such as a water heater;
  - if fuel is spilled, do not attempt to start the power source, but move the machine away from the area of spillage before starting;
  - always replace and securely tighten the fuel cap after refuelling;
  - If the fuel tank is drained, this should be done outdoors.

## **Operation**

- 1) Before starting the machine, look into the feeding chamber to make certain that it is empty;
- 2) Keep your face and body away from the feed intake opening;
- 3) Do not allow hands or any other part of the body or clothing inside the feeding chamber, discharge chute, or near any moving part;
- 4) Keep proper balance and footing at all times. Do not overreach. Never stand at a higher level than the base of the machine when feeding material into it;
- 5) Always stand clear of the discharge zone when operating this machine;
- 6) When feeding material into the machine be extremely careful that pieces of metal, rocks, bottles, cans or other foreign objects are not included;
- 7) If the cutting mechanism strikes any foreign objects or if the machine should start making any unusual noise or vibration, shut off the power source and allow the machine to stop. Disconnect the spark plug wire from the spark plug (electric unit disconnect from supply) and take the following steps:

- a. inspect for damage;
  - b. replace or repair any damage parts;
  - c. check for and tighten any loose parts ;
  - d. Do not attempt to repair the machine unless you are competent to do so. Have any damaged parts replaced or repaired with parts having equivalent specifications.
- 8) Do not allow processed material to build up in the discharge zone; this may prevent proper discharge and can result in kickback of material through the feed intake opening;
  - 9) If the machine becomes clogged at the inlet opening or discharge chute shut-off the power source and disconnect the spark plug wire or remove the ignition key before clearing debris in the inlet opening or discharge chute. Keep the power source clear of debris and other accumulations to prevent damage to the power source or possible fire. Remember that operating the starting mechanism on engine powered machines will still cause the cutting means to move;
  - 10) keep all guards and deflectors in place and in good working condition;
  - 11) Do not tamper with the power source governor settings; the governor controls the safe maximum operating speed and protects the power source and all moving parts from damage caused by over-speed. Seek authorised service if a problem exists;
  - 12) Do not transport this machine while the power source is running;
  - 13) Shut off the power source and disconnect the spark plug lead (electric unit disconnect from supply) whenever you leave the work area;
  - 14) Do not tilt the machine while the power source is running.

### **Maintenance and storage**

- 1) When the machine is stopped for servicing, inspection, or storage, or to change an accessory, shut off the power source, disconnect the spark plug wire from the spark plug, make sure that all moving parts have come to a complete stop and, where a key is fitted remove the key. Allow the machine to cool before making any inspections, adjustments, etc.
- 2) Store the machine where fuel vapour will not reach an open flame or spark. For extended storage periods, run the unit dry of fuel. Always allow the machine to cool before storing;
- 3) When servicing the cutting means be aware that, even though the power source will not start due to the interlock feature of the guard, the cutting means can still be moved by a manual starting mechanism.

### **Safety Instructions for Machinery**

- 1) READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY.
- 2) Machinery presents serious injury hazards to untrained users.
- 3) ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 4) ALWAYS WEAR AN ANSI APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST. Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.
- 5) ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.
- 6) Machinery noise can cause permanent hearing damage.
- 7) WEAR PROPER APPAREL. DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
- 8) NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Be mentally alert at all times when running machinery.
- 9) ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY. Make sure operation instructions are safe and clearly understood.
- 10) KEEP CHILDREN AND VISITORS AWAY. Keep all children and visitors a safe distance from the work area.
- 11) MAKE WORKSHOP CHILD PROOF. Use padlocks, master switches, and remove start switch keys.
- 12) NEVER LEAVE WHEN MACHINE IS RUNNING. Turn power OFF and allow all moving parts

- to come to a complete stop before leaving machine unattended.
- 13) DO NOT USE IN DANGEROUS ENVIRONMENTS. DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
  - 14) KEEP WORK AREA CLEAN AND WELL LIT. Clutter and dark shadows may cause accidents.
  - 15) ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY. Make sure switch is in OFF position before reconnecting.
  - 16) MAINTAIN MACHINERY WITH CARE. Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
  - 17) MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.
  - 18) REMOVE ADJUSTING KEYS AND WRENCHES. Make a habit of checking for keys and adjusting wrenches before turning machinery ON.
  - 19) CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY. Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
  - 20) USE RECOMMENDED ACCESSORIES. Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
  - 21) DO NOT FORCE MACHINERY. Work at the speed for which the machine or accessory was designed.
  - 22) SECURE WORKPIECE. Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.
  - 23) DO NOT OVERREACH. Keep proper footing and balance at all times.
  - 24) MANY MACHINES WILL EJECT THE WORKPIECE TOWARD THE OPERATOR.
  - 25) Know and avoid conditions that cause the workpiece to "kickback."
  - 26) ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.
  - 27) BE AWARE THAT CERTAIN WOODS MAY CAUSE AN ALLERGIC REACTION. In people and animals, especially when exposed to fine dust. Make sure you know what type of wood dust you will be exposed to and always wear an approved respirator.

#### **Additional Safety Instructions for Chipper/Shredders**

- 1) READ THIS ENTIRE MANUAL AND Gasoline Engine Owner's Manual These manuals contain proper operating and safety instructions for this chipper/ shredder.
- 2) SAFETY EQUIPMENT: Wear safety glasses, hearing protection, and gloves when operating a chipper/shredder. Make sure any bystanders are also wearing safety equipment.
- 3) ENGINE OPERATION: Refer to the Gasoline Engine Owner's Manual for operating instructions and gasoline motor safety warnings.
- 4) HAND SAFETY: DO NOT put hands or other body parts into hopper, funnel, or outlet while the blades are turning. The chipper/shredder can drag you into the blade, causing amputation of fingers, hands or other body parts. DO NOT touch the exhaust during or immediately after operation to prevent burns.
- 5) CLOTHING: DO NOT wear loose clothing, neckties, scarves, or jewelry which may get caught in moving parts. DO NOT wear clothing or gloves with pull ties or straps. This type of clothing could get tangled with material that is being shredded, pulling you into the chipper/shredder.
- 6) OPERATING LOCATION: Set up the chipper/shredder on firm, level, grass or dirt. DO NOT set up the chipper/shredder on gravel, asphalt, concrete, or stone. The chips are expelled from the machine with enough force to ricochet off of hard surfaces and cause serious injury. DO NOT set up the chipper/shredder in a location where sparks or heat from the motor could cause a fire.
- 7) SECURE FOOTING: Placing the chipper/shredder on a slope or slippery surface may cause the operator to fall into the machine, causing burns from the motor, or an amputation if an arm accidentally goes into the hopper. Wear non-slip, closed toed shoes or boots to maintain secure footing.
- 8) JAMS AND CLOGGING: Turn the chipper/shredder OFF, allow all moving parts to come to a complete stop, and disconnect the spark plug wire before attempting to free a jam or clog.
- 9) FEEDING MATERIAL: Hold branches and brush loosely, and allow the chipper/shredder to

draw the material in. The machine sometimes will draw material in very quickly and your hand may be drawn in if you are holding tightly. If the blades hit a hard object, or if the machine begins to make an unusual noise or vibration, immediately shut the chipper/shredder OFF.

- 10) **TURN OFF CHIPPER/SHREDDER:** Turn OFF the machine, allow all moving parts to come to a complete stop, and disconnect the spark plug wire before moving the machine, emptying the bag, unclogging the inlets or outlets, filling the gas tank, or performing maintenance and repairs.
- 11) **STARTING THE CHIPPER/SHREDDER:** Make sure the hopper and funnel are empty when starting the machine. The pull start cord may stop suddenly causing the chipper/shredder to fall over or injure your hand or arm.
- 12) **CLEANING CHIPPER/SHREDDER:** Allow the motor to cool off, then brush dust and chip build-up off of the motor to prevent fire or motor overheating.

## **Residual hazards and protective measures**

### *Residual mechanical hazards*

#### **Detection, winding**

The machine can pick up and pull in items of clothing, cords, wires and other foreign objects.

→ Check the chopped material for foreign objects. Wear close-fitting clothing.

#### **Retract, catch**

Rotating parts such as the knife mechanism can pull in and catch wide clothing.

→ Always wear close-fitting protective clothing. Do not wear scarves, shawls and the like.

#### **Squeeze**

Careless handling of the chopped material can lead to serious injuries.

→ Slowly and carefully feed the chopped material into the feed hopper.

**ATTENTION, automatic feed!** Never use your hands!

→ Always insert the branches with the thick end first.

Never work with pressure.

Ensure that you are standing securely.

*Neglect of ergonomic principles*

#### **Negligent use of personal protective equipment (PPE)**

Careless use or omission of personal protective equipment can lead to serious injuries.

→ Wear the prescribed protective equipment.

#### **Human behavior, misconduct**

→ Always be fully concentrated during all work.

Residual risk - Can never be ruled out.

### *Residual electrical hazards*

#### **Electrical contact**

Touching the spark plug connector while the engine is running can result in an electric shock.

→ Never remove the spark plug cap or the spark plug when the engine is running.

### *Residual thermal hazards*

#### **Burns, chilblains**

Touching the exhaust/housing can cause burns.

→ Allow the motorized appliance to cool down.

#### *Danger due to noise*

#### **Hearing damage**

Prolonged, unprotected work with the machine can lead to hearing damage.

→ Always wear hearing protection.

### *Hazards from materials and other substances*

### Contact, inhalation

The exhaust gases of the machine can lead to health hazards.

→ Only use the motorized appliance outdoors and take regular breaks.

### Fire, explosion

Fuel is flammable.

→ Smoking and open flames are prohibited during work and refueling.

### Other hazards

#### Slipping, tripping or falling of persons

On unstable surfaces, tripping can cause damage.

→ Watch out for obstacles in the work area. Always ensure that you are standing securely and wear safety shoes.







### Behavior in an emergency







In the event of an accident, initiate the necessary first aid measures and call for qualified medical assistance as quickly as possible.

If you request assistance, please provide the following information:

- where it happened
- what happened
- How many injured
- What type of injury
- wait for queries

### Explain symbols

	Read operator's manual.
	Wear eye protection.
	Wear ear protection.
	Wear protective gloves.
	Keep bystanders away 12M at least.
	Danger - Rotating blades. Keep hands and feet out of openings while machine is running.

	Keep the motor away from heat, sparks and flames. Do not smoke near the chipper!
	Rotating impeller blades can cause severe injury
	Keep hands and feet out of openings while machine is running.
	Uninvolved persons as well as pets and farm animals must never stand in front of or next to the shredder. Keep a sufficient safety distance of at least 12 meters when the engine is running.
	Conforms to relevant safety standards
	Guaranteed sound power level: 120dB (A).

### **Configuration table**

Model	HBT1515PRO
Power	9 kW
Type	420 cc single cylinder four stroke air-cooled gasoline engine
Starting system	Electric and recoil start
Engine Speed Max.	3600/min
Gasoline tank	6.5L, Fuel Grease-free regular gasoline
Oil tank	1.1L, SAE 10W-30 or 10W-40
Displacement	420cm <sup>3</sup>
Weight	250 kg
Maximum cutting diameter	150mm
Blade speed	2000PRM
Noise emission	Sound power level: LwA: 117.6dB(A) , K=2.56dB(A) Guarantee sound power level: 120 dB(A)



## 2. ASSEMBLY

### SCOPE OF DELIVERY

After unpacking, check the contents of the carton/transport box for

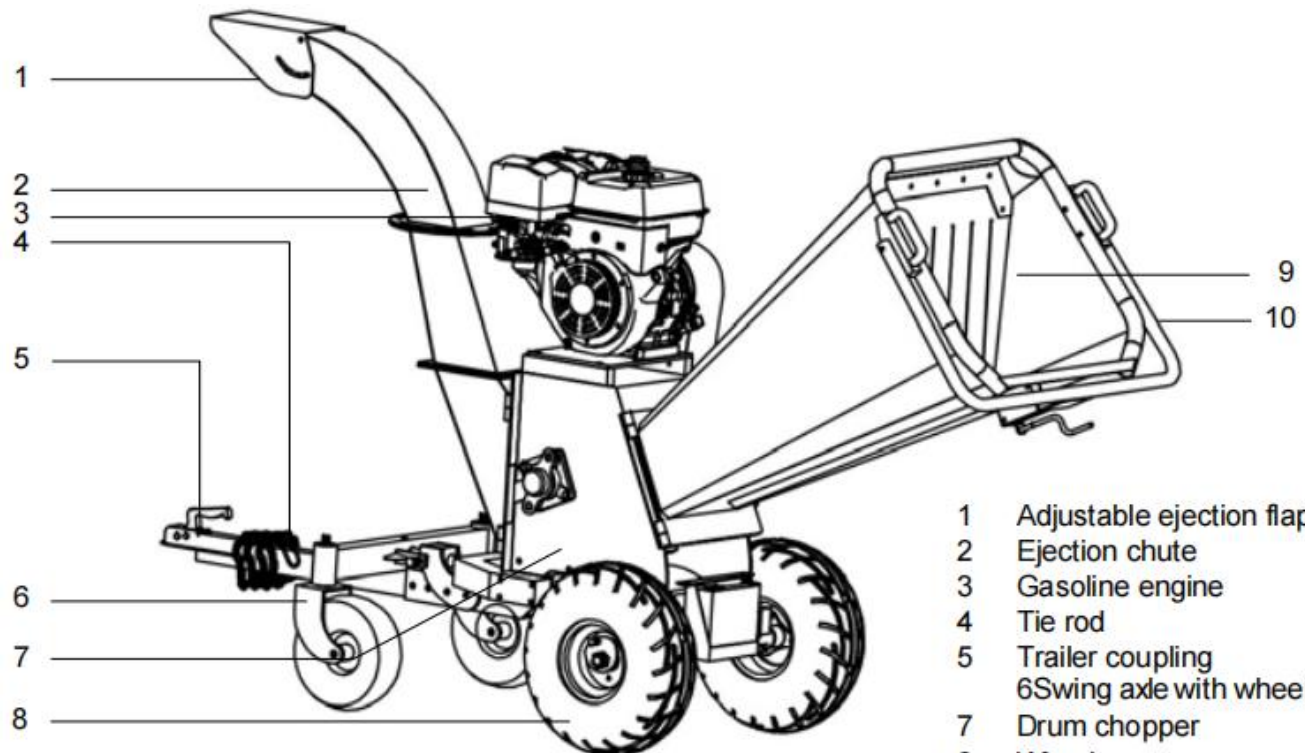
- a. Completeness
- b. Possible transport damage

Notify the dealer or manufacturer of any complaints immediately. Later complaints will not be recognized.



- A: Petrol engine with frame and rotor
- B: Feed hopper
- C: Ejection chute
- D: 2 wheels, 1 axle, cotter pins and cover caps
- E: Tow bar with trailer coupling
- F: Axle mounting
- G: Swing axle with 2 wheels
- H: Axle carrier
- I: Battery
- J: Safety bar

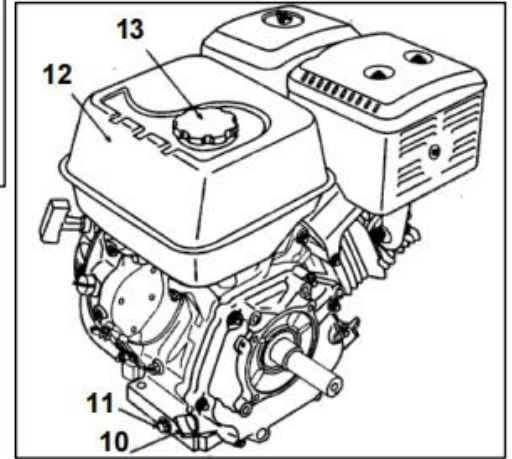
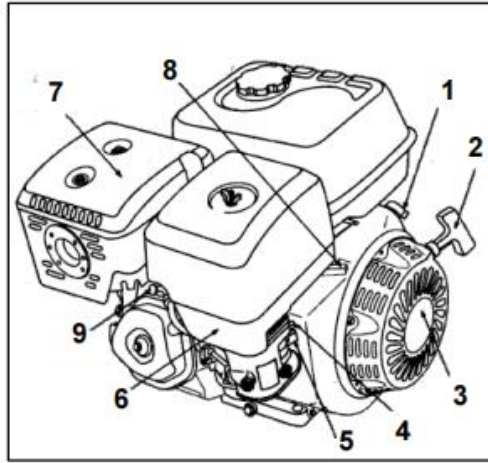
### PRODUCT DESCRIPTION



- 1 Adjustable ejection flap
- 2 Ejection chute
- 3 Gasoline engine
- 4 Tie rod
- 5 Trailer coupling
- 6 Swing axle with wheels
- 7 Drum chopper
- 8 Wheel
- 9 Hinged feed hopper
- 10 EMERGENCY STOP button

## 2 Gasoline engine

- 1 Engine switch (ignition switch)
- 2 Reversing starter
- 3 recoil starter
- 4 Choke lever
- 5 Fuel tap
- 6 Air filter
- 7 Muffler
- 8 Throttle lever
- 9 Spark plug, spark plug connector
- 10 Oil filler plug with dipstick
- 11 Oil drain plug
- 12 Fuel tank
- 13 Tank cap



### **INTENDED USE**

The shredder is designed exclusively for shredding bushes, shrubs, bark and branches up to 15 cm thick. The machine is not suitable for garden soil to prepare. Roots with soil, stones, glass, metal, textiles, kitchen waste, cardboard or plastic must never be shredded with the machine.

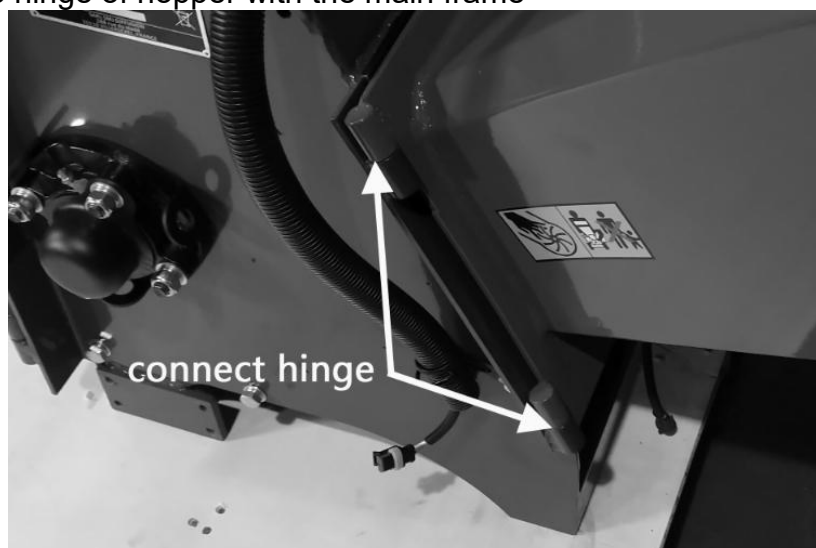


Pruning waste from conifers or similar dense clippings can lead to blockages! Any other use or use beyond this is not considered to be in accordance with the intended use. The manufacturer is not liable for any resulting damage. The user alone bears the risk. Observing the operating and maintenance instructions and carrying out the maintenance work, as well as adhering to the maintenance intervals, are part of the intended use.

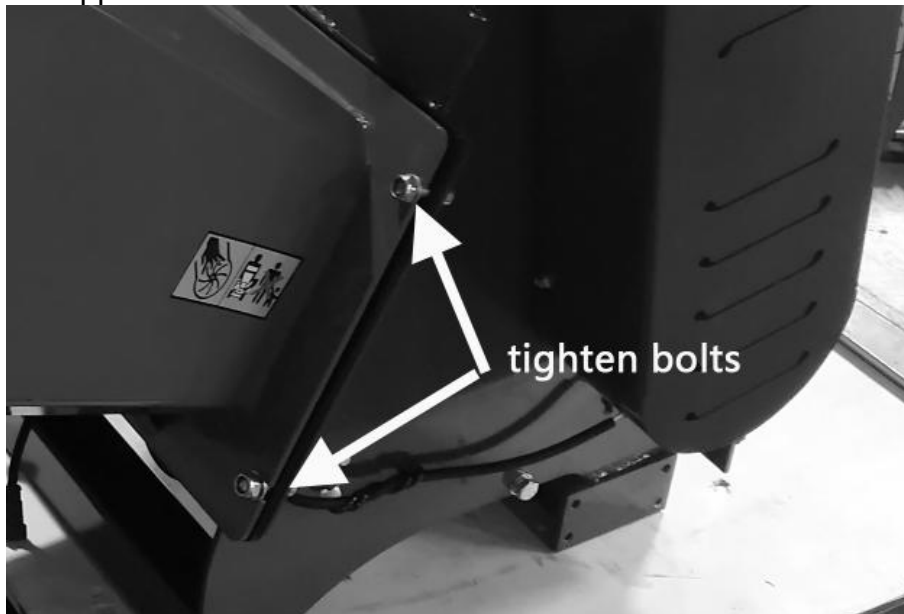
**ATTENTION!** Persons who are not familiar with the operating instructions, children, young people and persons under the influence of alcohol, drugs or medication must not operate the machine.

### **ASSEMBLY INSTRUCTION**

- 1) Assemble the infeed-hopper
  - a. Connect the hinge of hopper with the main frame

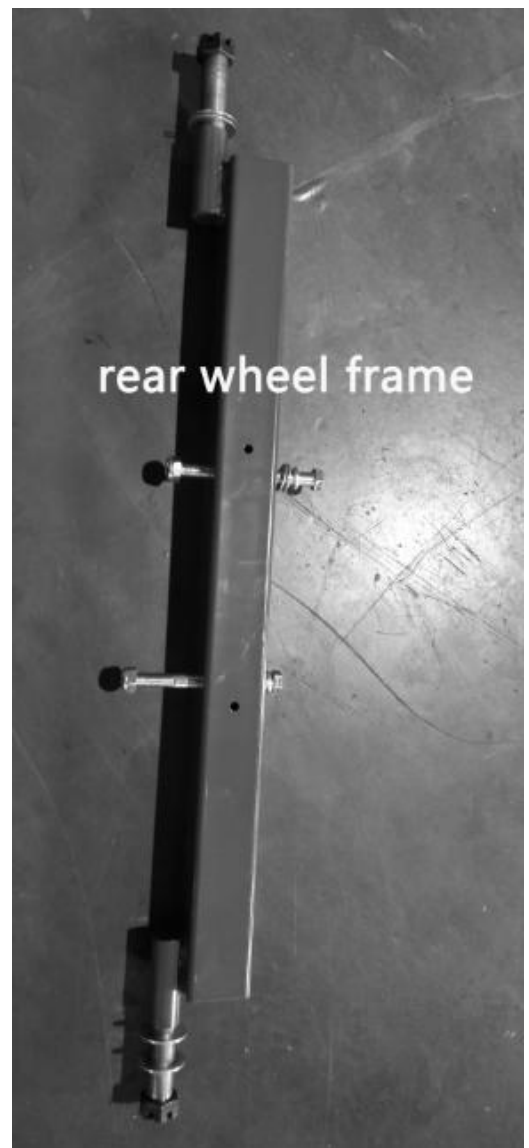


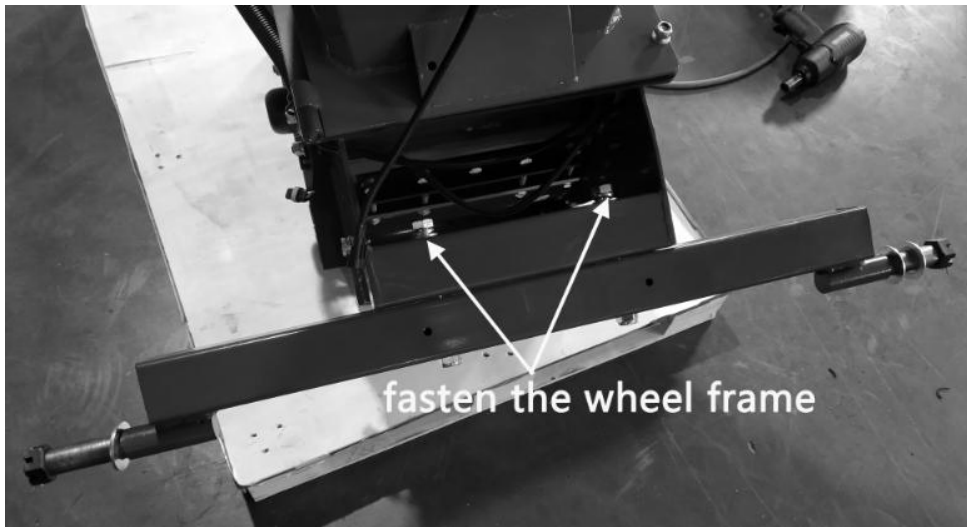
b. Tighten the hopper with the two bolts on the other side.



2) Assemble rear wheels.

a. Put the main frame as below position(tilt forward) and install rear wheel frame.

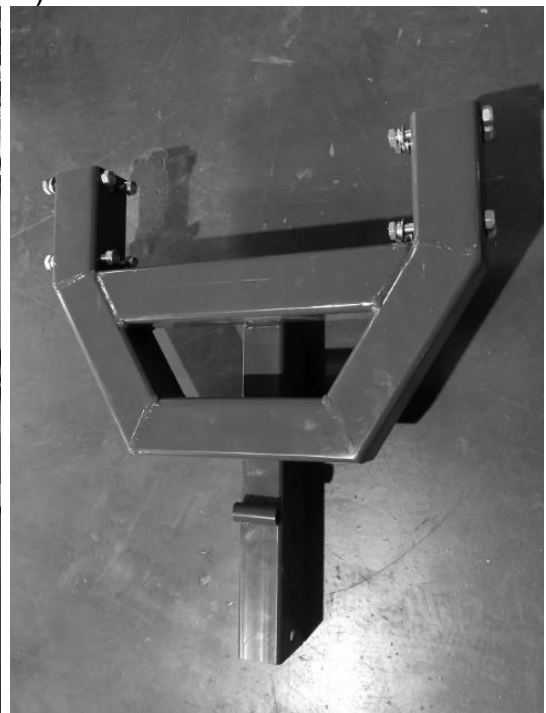




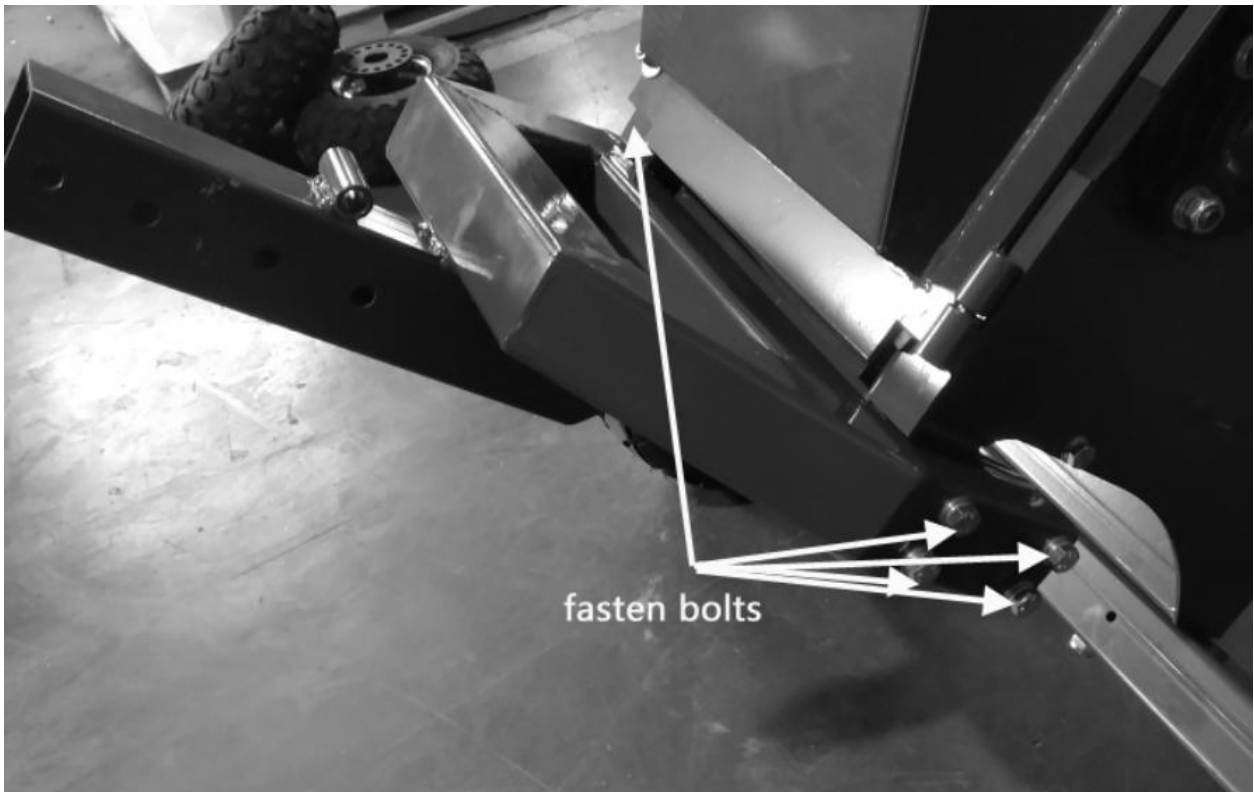
- b. Install the wheels one after another with one washer, wheel, another washer, slot nut, pin and cap .



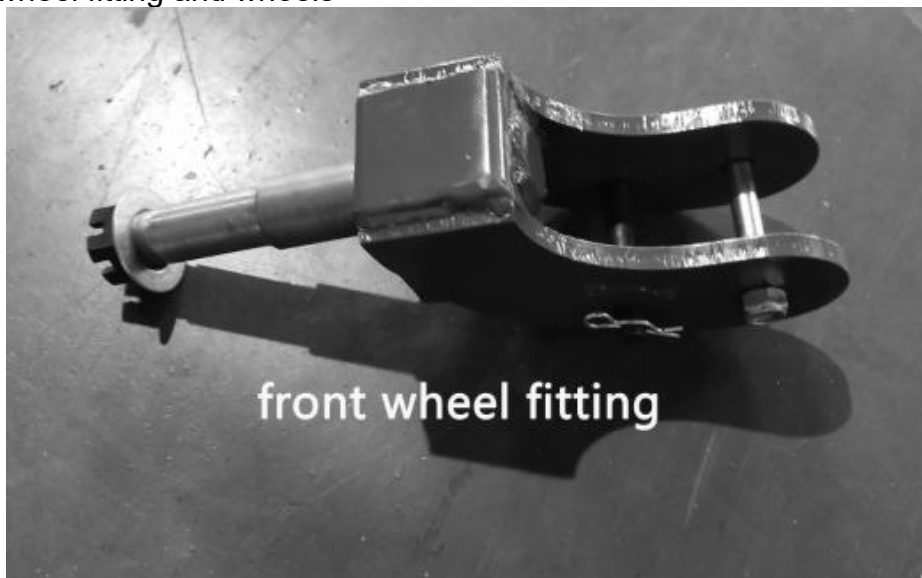
- 3) Assemble front wheel and tow bar
  - a. Put the main frame as below position(tilt backward) and assemble tow frame:

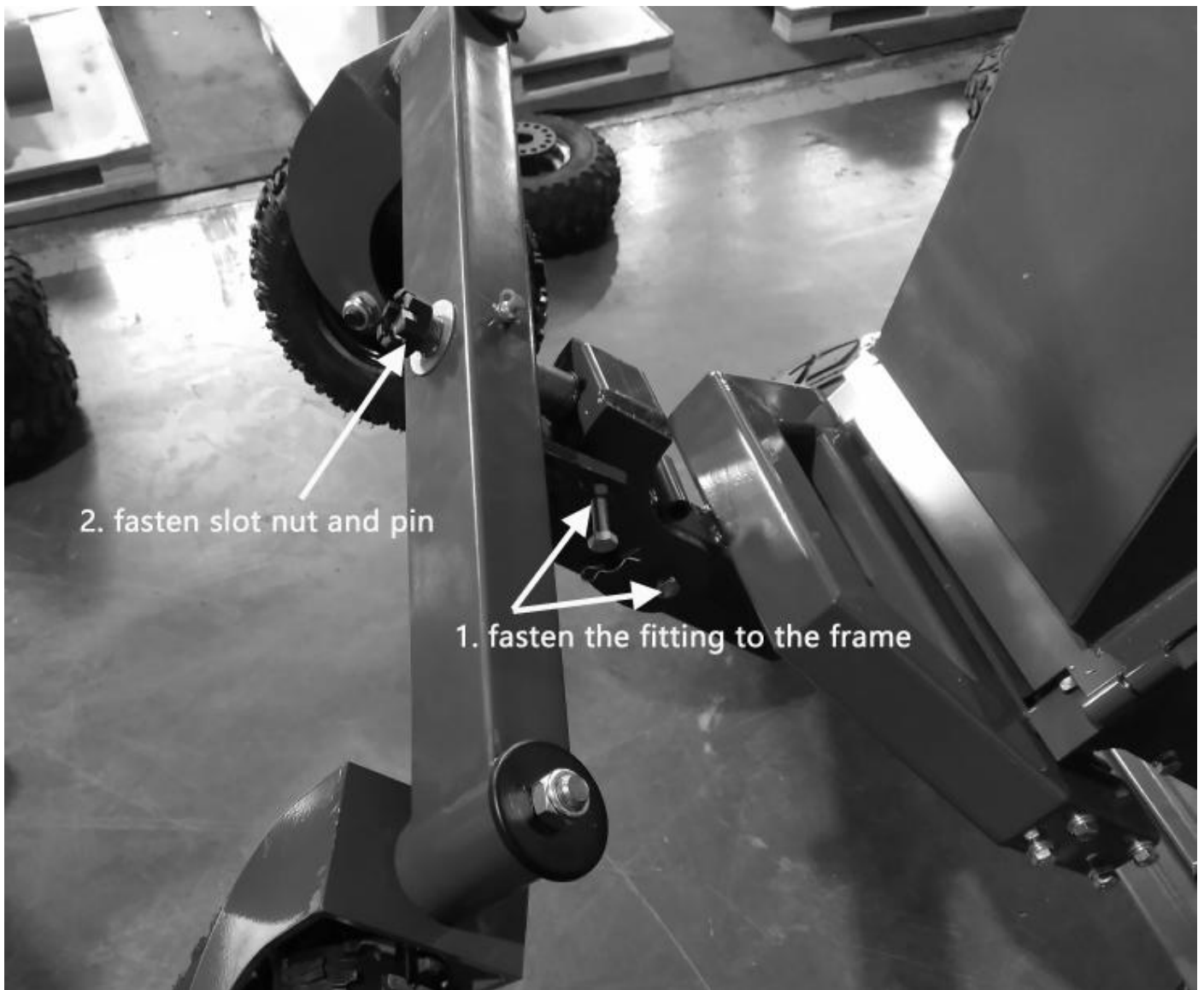




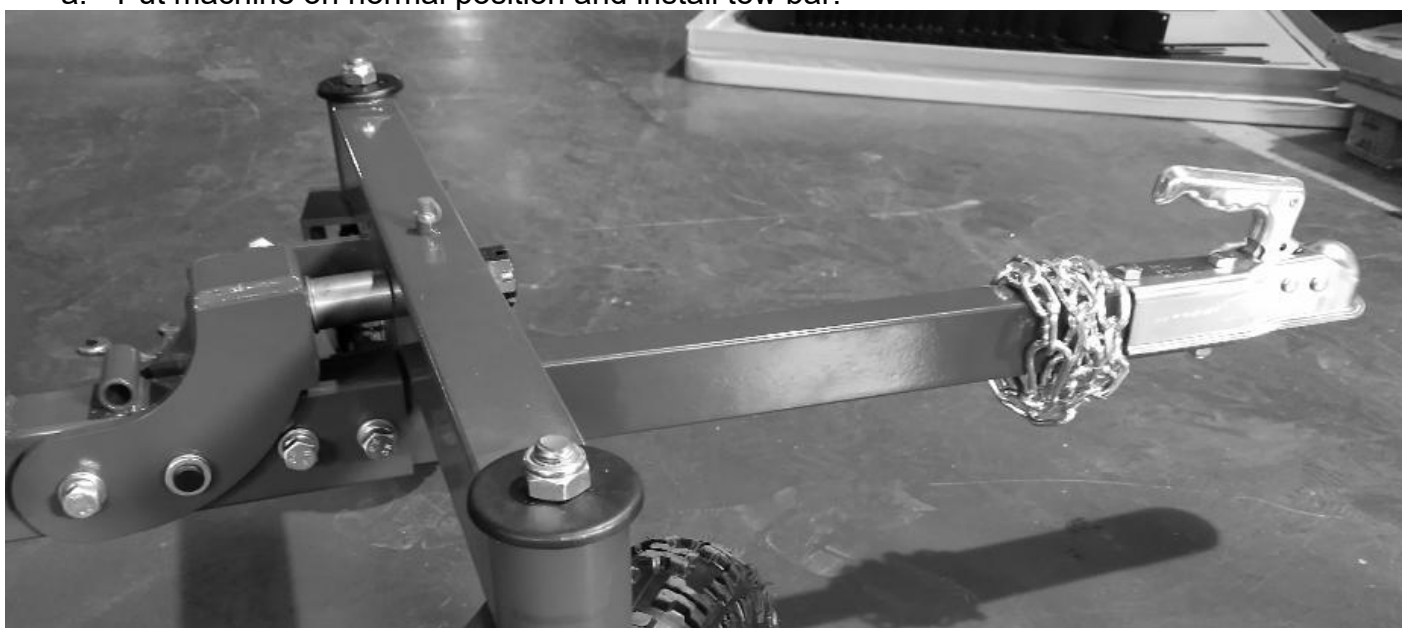


4) Install front wheel fitting and wheels

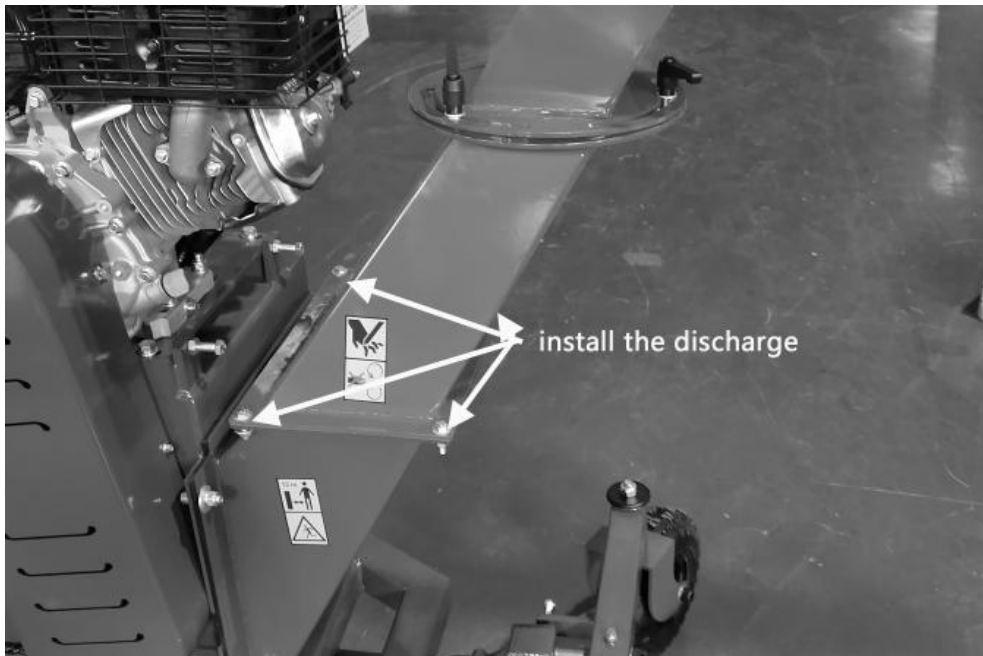




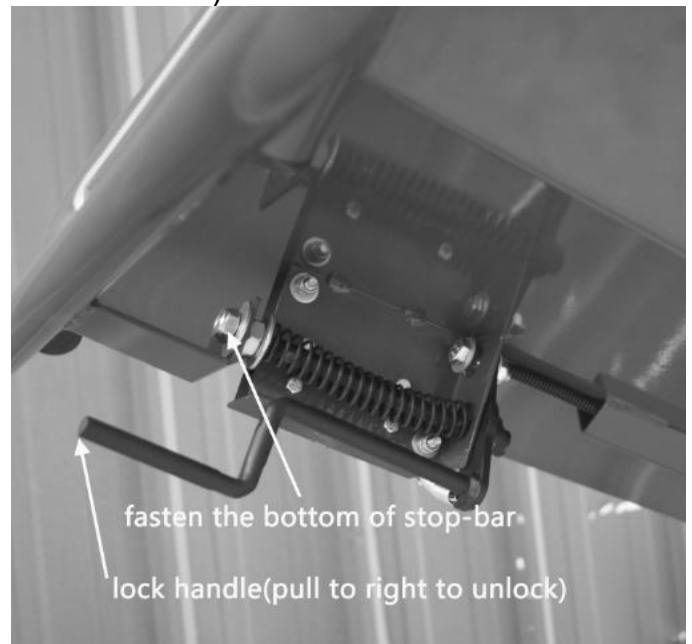
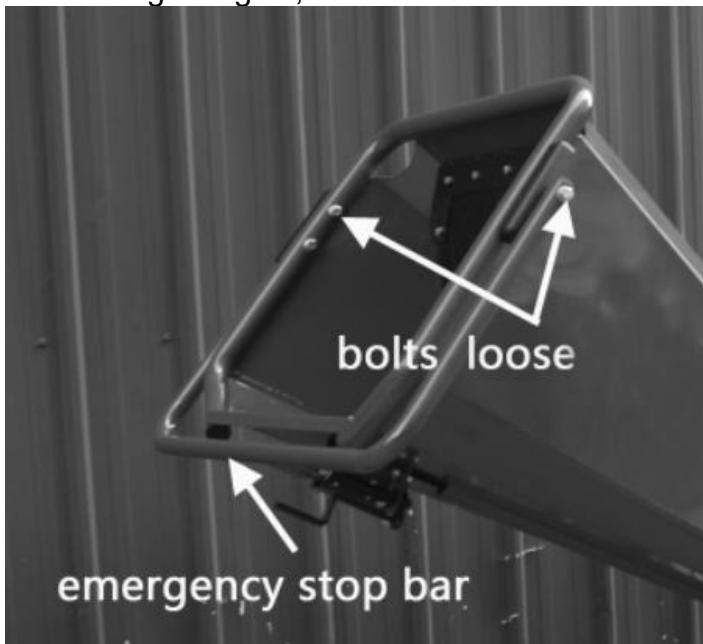
a. Put machine on normal position and install tow bar.



5) Install the discharge



6) Assemble the emergency stop bar and unlock the lock-handle.  
 (Tips: when using the machine, can push emergency stop bar to stop and lock the engine. If want to start engine again, need to sidle the lock-handle to unlock first)



7) Connect the socket(below the infeed hopper) with plug(main frame)



8) Check all bolts and nuts to make sure they are properly tightened.

## 3. OPERATION

### **⚠WARNING**

Damage to your eyes, hands, and ears could result from using this machine without proper protective gear. Always wear safety glasses, hearing protection, and leather gloves when operating this machine.

### **⚠WARNING**

Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing and long hair away from moving machinery.

### **NOTICE**

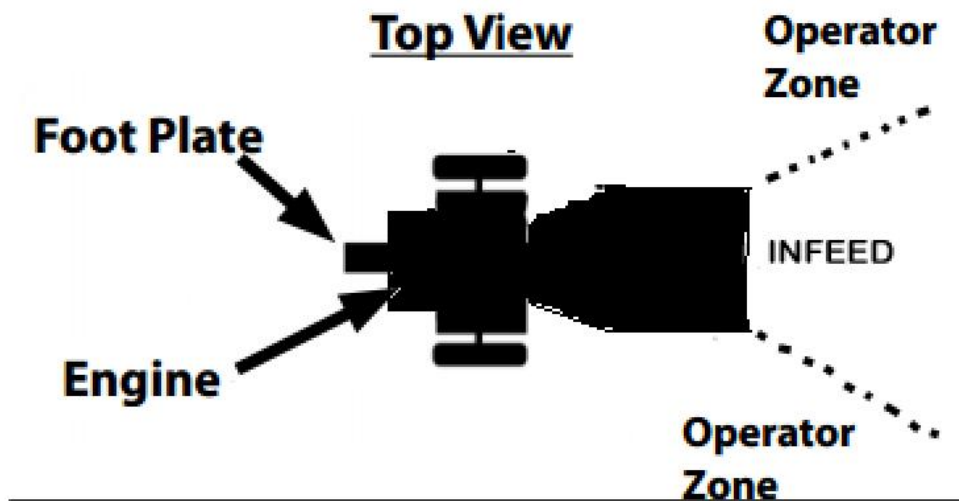
If you have never used this type of machine or equipment before, **WE STRONGLY RECOMMEND** that you read books, trade magazines, or get formal training before beginning any projects.

### **NOTICE**

This chipper/shredder does not have oil in the motor when shipped. Add oil before operating the chipper/shredder, or the motor will seize.

### **OPERATOR ZONE**

Mark out an area at least 3 m wide and 12 m long on the side of the ejector. Check the immediate area before starting. Pay particular attention to children, other people and animals.



The user is liable to third parties in the work area responsible.

It is forbidden for other persons, especially children, pets and farm animals, to be in the danger zone (at least 12 m) of the machine. Always check the immediate area before starting.

Do not use the machine in potentially explosive atmospheres or expose it to rain.

Never start or run the engine in a closed or poorly ventilated room. The exhaust fumes from the engine contain carbon monoxide. Being in an environment containing carbon monoxide can lead to unconsciousness and death. Only work with the machine outdoors.

Carefully inspect the chopped material to be processed before starting work. Remove any foreign objects such as nails, wires and the like.

Watch out for other foreign objects during work and remove them in good time.

Keep the work area tidy! Disorder can lead to accidents.

Never operate the machine in poor visibility or insufficient lighting conditions.

### **REFUELING**

**ATTENTION!** You may only carry out the work described in this chapter after you have read and understood the safety instructions. It concerns your personal safety

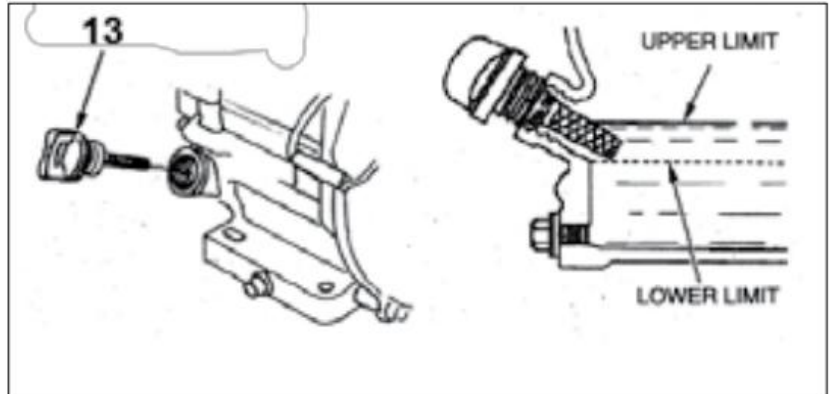
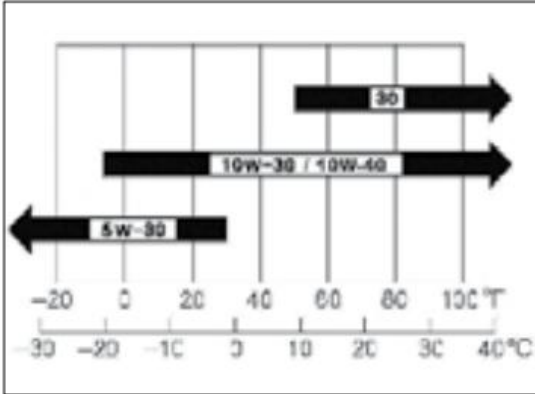


## ENGINE OIL

**Note:** The engine oil must be topped up before first use!

Incorrect oil filling can lead to irreparable damage to the engine. In this case, the seller and manufacturer distance themselves from any warranty claims.

- 1) Use commercially available engine oil with the specification 10W-30 or 10W-40.
- 2) Unscrew the oil filler plug on the engine.
- 3) Fill the engine oil up to the first thread of the filler opening.
- 4) Tighten the oil filler plug.
- 5) Wipe away oil residues/dirt.



**Engine oil capacity: 1.1 liters Do not overfill!**

If SAE 30 oil is used below 10°C, this will result in more difficult starting and possible damage to the engine bore due to insufficient lubrication.

To check the oil level, the machine must be on a level surface and switched off.

- 1) Remove the oil filler plug.
- 2) Wipe off the oil on the dipstick.
- 3) Put the filler plug back into the opening, do not screw tight.
- 4) Pull out the filler plug again.
- 5) Check the oil level on the dipstick. The oil level must be between MIN and MAX (L and H).
- 6) If the oil level is too low (MIN or less), top up with equivalent engine oil.

## PETROL

**DANGER!** Health and explosion hazard due to combustion engine!



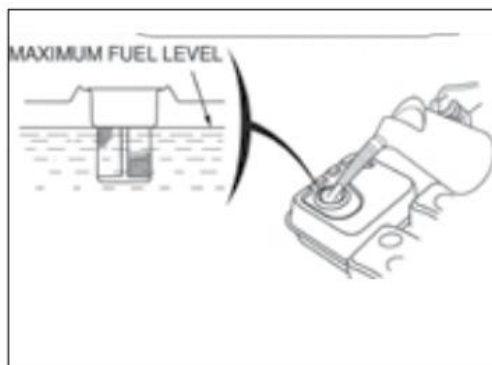
The engine exhaust contains poisonous carbon monoxide. Being in an environment containing carbon monoxide can lead to unconsciousness and death. Do not run the engine in an enclosed area.



Keep the motor away from heat, sparks and flames. Do not smoke near the machine!



Petrol is extremely flammable and explosive. Switch off the engine and allow it to cool down before refueling.



Only unleaded regular gasoline with a research octane rating of 95 or higher is required for this engine. Only use fresh, clean fuel. Water or impurities in the gasoline will damage the fuel system.

**Tank capacity: 6.5 liters**

Refuel in a well-ventilated area with the engine stopped. If the engine was running immediately before refueling, allow it to cool down first. Never refuel the engine in a building where gasoline vapors can reach flames or sparks.

Petrol is extremely flammable and explosive.

You can suffer burns or other serious injuries when handling fuel.

When refilling of fuel absolutely note:

- Switch off the engine and allow it to cool down for at least 10 minutes before removing the fuel filler cap.
- Motor from heat, sparks and flames keep away.
- Fill the fuel tank outdoors or in a well-ventilated area.
- To give the gasoline room to expand, do not fill above the lower edge of the fuel nozzle.
- Keep gasoline away from sparks, open flames, continuous flames, heat sources and other sources of ignition.
- If fuel has been spilled, wait until the vapors have dissipated before starting the engine.

## **REFUELING THE MACHINE**

- 1) Clean the area around the tank cap to remove dirt and foreign objects.
- 2) Carefully remove the tank cap so that the existing excess pressure can be released.
- 3) Fill with gasoline carefully. To give the gasoline room to expand, do not fill above the lower edge of the fuel nozzle.
- 4) Screw the tank cap firmly onto the tank nozzle.
- 5) Wipe up spilled gasoline immediately.

## **STARTING**

- 1) Position your Wood Chipper on flat, dry ground, and then stop the front wheel with brake, make sure the machine cannot be moved.
- 2) Make sure the fuel shut-off valve is in the "ON" position.
- 3) Move the choke control lever to the "CHOKE" position (should only be needed if the engine is cold).
- 4) Move the throttle control lever to the "FAST" position.
- 5) Recoil Start: Turn the Ignition Switch to the "On" position. Grasp the recoil starter handle and slowly pull until you feel resistance. Let the cord retract a little bit then pull the cord rapidly to start the engine. One or two pulls usually starts the engine.
- 6) Electric Start: Turn and hold the Key in the start position until Engine starts then let the Key return to run position.
- 7) Move the choke control lever (if used for cold engine) slowly back to the "RUN" position when the engine is running well.
- 8) If the Wood Chipper has not been running (cold engine), warm up the engine by running the engine at half throttle for 3 to 4 minutes, then advance the engine throttle control to the maximum speed.

## **STOPPING**

- 1) Move the Throttle Lever to IDLE.
- 2) Recoil Start: Turn the Ignition Switch to the OFF position.
- 3) Electric Start: Turn the Key to the OFF position.

## **STOPPING THE MOTOR IN AN EMERGENCY**

To stop the motor in an emergency, simply press the EMERGENCY STOP button (10) on the feed hopper.



**ATTENTION! The knife drum runs for a short time due to the flywheel mass! In unforeseen situations, never hesitate to press the EMERGENCY STOP button.**

## **CHIPPING/SHREDDING**

Understand and follow all of the safety precautions before operation.

This chipper/shredder is intended for mulching garden and pruning waste such as green branches,

twigs, brush, vines, and long grasses. DO NOT use this chipper/shredder for chipping construction debris, plastic, paper products, rope or twine, or any material that may contain metal.

**Note:** Remove any nails, rope, twine, or rocks that may be imbedded in roots, before inserting material into the chipper/shredder.

**Note:** Woods or branche diameter should be no bigger than 150mm.

**WARNING:**

- Do not place your hands into the chute when loading. This is a very UNSAFE method and could result in injury to your hands.
- Do not reach or step across the rail while the Wood Chipper is running. This is a very UNSAFE method which could cause personal injury, even death.

**WHEN BLOCKED**

If the Roller stops while chipping woods or branches, the engine should be stopped, and take out the woods which stuck the roller, and then restart the engine, and chip again.

- Only remove chopped material lying crosswise in the hopper when the engine is switched off and the blade drum is stationary. Only use another branch or piece of wood for removal.
- In the event of blockages in the intake and discharge of the machine, unusual noises or vibrations, switch off the engine immediately. Remove the spark plug connector and wait for the tools to come to a standstill. Faults must be rectified immediately.
- Never leave the machine while it is running.
- When replacing the blades and the counter blade, switch off the engine and remove the spark plug connector. After one hour of use, check that all nuts and bolts are tight.
- Repairs may only be carried out by an approved service center or our service team.

## 4. MAINTENANCE

**WARNING:**

**Improper maintenance or failure to observe or rectify a problem can be a source of danger during operation. Only operate regularly and correctly maintained machines. Proper maintenance and lubrication help to ensure that the machine remains in perfect operating condition.**

All persons who carry out maintenance work on the machine must be technically qualified and appropriately trained. They must be aware of all hazards and risks associated with the machine. Further work not described in these operating instructions may only be carried out by a qualified specialist workshop.

- 1) Switch off the engine and allow it to cool down.
- 2) The throttle lever is set to "SLOW" , in the idle position.
- 3) Always remove the spark plug connector. This prevents unintentional starting.
- 4) Inspect the general condition of the machine. The machine is exposed to vibrations during operation. Therefore, all screw connections must always be checked for tightness after a few hours.
- 5) The feed hopper and blades must be carefully maintained to prevent damage and injury.
- 6) Ensure that the machine is in a safe operating condition, in particular check the fuel system and the fuel filler cap for leaks.
- 7) After each use, dirt and chopped material that has accumulated on the machine must be removed. To prevent the engine from overheating, the cylinder cooling fins must be kept clean. Use commercially available multipurpose oil to lightly lubricate all moving parts.
- 8) Only use original parts. Other parts can lead to unforeseeable damage and injury.
- 9) After repair and maintenance work, properly reattach the guards to the machine and check them.



**Never use a high-pressure cleaner to clean the machine. Water can penetrate narrow slots and damage spindles, pulleys, bearings and the motor. The use of a high-pressure cleaner will result in a shorter service life and reduced operational suitability.**

## LUBRICATION DRUM CHIPPER

Dispose of oily and greasy parts and used oil in accordance with the statutory regulations.

Lubricate both sides of the blade drum bearings at the grease nipples with a grease gun before each use or after 10 operating hours and after each cleaning

The 2nd grease nipple is located behind the V-belt guard. Undo the 4 fastening screws on the belt cover and remove the cover.

- 1) Clean the grease nipples with a cloth.
- 2) Place the grease gun on all nipples one after the other and pump in grease.
- 3) Wipe away excess grease.



**After lubrication, the V-belt guard must be properly refitted.**

## FASTENING SCREWS

After every **1 hour of operation**, check all fastening screws for tightness and retighten if necessary, especially the fastening screws of the feed hopper, discharge chute and blades.

## SAFETY CIRCUIT

Check the function of the safety circuit **before every start-up** and during every service and maintenance work.



## RUBBER PROTECTION FLAP

Check the rubber protection flap for wear **before every start-up** and during every care and maintenance work, replace if necessary if it is very worn.

## KNIFE



**Engine switch off and remove the spark plug cap!**



**Wear protective gloves!**

Knives are blunt when

- the chopping noise sounds sluggish.
- the chopping speed has decreased significantly.
- the drive belt - despite tension - through slips.

After approx. **30 - 50 operating hours**, the cutting edges of the blades are blunted under normal operating conditions.

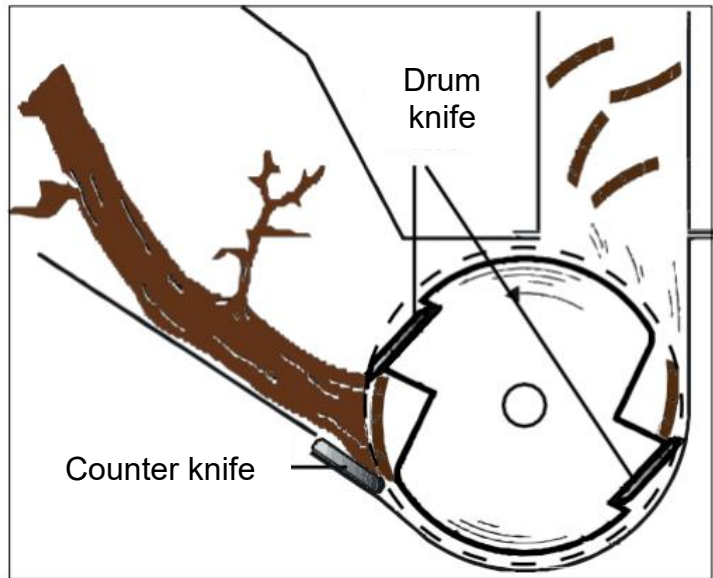
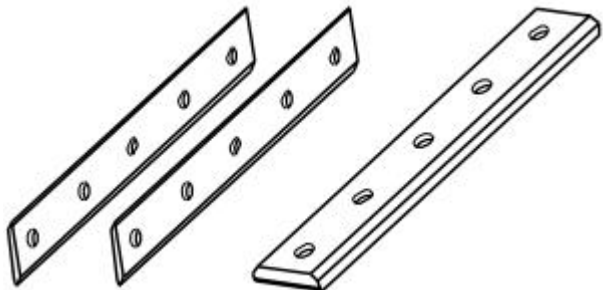
The two drum knives have two cutting edges and can therefore be turned once.

The fixed counter blade can be once be turned.

Set the counter blade to a cutting gap of 0.5 mm using a thickness gauge. Then tighten the fastening screws with 60Nm and medium screw locking compound.

Drum knife x2

Counter knife x1



Drum chopper

Blunted blades can be turned over. Damaged blades (cracked, chipped, severely bent or otherwise damaged) must be replaced immediately.



**The machine must not be put into operation if the blades are not fully inserted!**

**The manufacturer's original versions must be used for all spare parts.**

### **V-BELTS**

The two V-belts **before each start-up** check their condition.

When changing the V-belt, both V-belts must always be changed.

- 1) Remove the belt cover.
- 2) If the V-belts show signs of wear, then these must be renewed.

The V-belts must be fitted loosely. If they are forced onto the V-belt pulley, there is a risk that they will be damaged and break after a short time.

The V-belts must be pre-tensioned so that they can be pressed through approx. 8-10 mm in the middle using thumb pressure.

### **TENSIONING THE V-BELT**

Check the tension of the V-belt regularly. A loose belt reduces the engine speed. The V-belt is correctly tensioned if it can be pushed through approx. 8-10 mm.

- 1) Remove the belt cover.
- 2) Check belt tension. T i g h t e n t h e V-belt if the belt yields more than 10-15 mm (thumb pressure).
- 3) To retighten, loosen the four screws on the motor.
- 4) Move the motor until you can push the V-belt through 8-10 mm.
- 5) Ensure that the drive pulley and motor V-belt pulley are aligned.
- 6) Tighten the screws on the motor again.
- 7) Refit the belt cover.

### **CHANGING THE V-BELT**

Always replace belts that are too long, damaged or worn with new original V-belts.

- 1) Remove the belt cover.
- 2) Loosen the four screws on the motor.
- 3) Move the motor until the V-belt is easy to remove.
- 4) Fit a new V-belt.
- 5) Tension the V-belt, moving the motor until you can push the belt through 8-10 mm.
- 6) Ensure that the drive pulley and motor V-belt pulley are aligned.



- 7) Tighten the screws on the motor again.
- 8) Refit the belt cover

Note: The tensioning screw can also be used for fine adjustment and re-tensioning of the V-belt, if installed on the machine.



**Only put the machine into operation when all protective and safety devices are in the protective position and in working order.**

### **CLEAN AIR FILTER / CHANGE**

Frequent cleaning of the air filter (6) prevents carburetor malfunctions. If the engine starts to smoke and the engine power decreases at the same time, this is a sign that the filter is clogged. Clean the air filter, tapping it lightly so that dust falls out of the paper element.



**NEVER use gasoline or cleaning solutions with a low flash point to clean the air filter element. This could result in a fire or explosion.**

### **CLEAN AIR FILTER, CHANGE FILTER ELEMENTS**

- 1) Fastening element Release and cover lose weight.
- 2) Wipe off dirt from the inside of the filter housing with a clean, damp cloth.
- 3) Carefully remove the foam filter insert from the paper filter insert. Check both parts for damage. Replace damaged inserts.
- 4) Clean the foam filter insert in warm water and a mild soap solution. Rinse thoroughly with clean water and allow to dry thoroughly.
- 5) Tap the paper filter insert on a hard surface to remove the dirt. Never brush off dirt, as this will press it into the fibers.
- 6) Foam insert on the paper filter insert put on .
- 7) Reinstall the filter element.
- 8) Close the cover and secure it with the fastening element.

**Note:** Never run the engine without or with a damaged air filter element. Dirt can get into the engine and cause serious engine damage. In this case, the seller and manufacturer distance themselves from any warranty claims.

### **CHECK /CLEAN/ REPLACE SPARK PLUG**

Regularly check the spark plug and the distance between the electrodes.



**Hot surfaces. There are parts on the engine with hot surfaces, for example the exhaust silencer or the engine cooling fins. Wait until the engine has cooled down before carrying out any work on the engine.**

- 1) Allow the engine to cool down.
- 2) Remove the spark plug cap from the spark plug and remove any dirt in the spark plug area.
- 3) Spark plug with the spark plug wrench Unscrew and check.
- 4) Check the insulator. In the event of damage, e.g. Cracks or splinters, replace spark plug.
- 5) Spark plug electrodes with a wire brush clean.
- 6) Check electrode gap and adjust if necessary. The electrode gap must be 0.7 - 0.8 mm.
- 7) Carefully screw in the spark plug by hand and tighten with the spark plug wrench.
- 8) Fit the spark plug cap onto the spark plug.

### **DRAINING OF OPERATING RESOURCES**

Change the engine oil while the engine is still warm. Warm oil drains quickly and completely.

**CAUTION! Environmental damage.**



**Operating materials and parts contaminated with contaminated parts must not enter the drinking water supply.**

**Dispose of the operating materials as hazardous waste, even if only small**

### **quantities are involved.**

The engine oil must be changed after the first 5 hours of operation. After that, only every 50 operating hours or every season.

- 1) Unscrew the oil drain plug (11).
- 2) Unscrew the oil filler plug (10).
- 3) Hold a suitable container (at least 1.5 liters) under the oil drain plug.
- 4) A second person tilts the chipper so that the oil can run off.
- 5) Thoroughly clean the area around the oil outlet opening.
- 6) Screw the oil drain plug (11) back in.
- 7) Engine oil (1.1 liters, see "TANKING") slowly fill in.
- 8) Tighten the oil filler plug (10).
- 9) Remove oil residues or soiling.
- 10) Engine oil according to local regulations dispose of.

### **CLEANING**

Clean the machine at regular intervals to ensure optimum function.

Accumulations of dirt (shavings, wood debris, dust, adhering green leaves, etc.) inside the machine must be removed. Use a soft brush or a vacuum cleaner to remove this dirt

Use a dry cloth to remove dirt from the chassis.

Never direct water onto the bearings or the motor when cleaning.

After cleaning, grease or oil all lubrication points and allow the machine to run briefly so that the water that has penetrated is pressed out again.

## **5. TRANSPORTATION AND STORAGE**

### **TRANSPORT**

Before transportation, relocation or indoor storage:

- Switch off the machine motor and allow it to cool down to avoid burns and the risk of fire.
- Remove the spark plug connector.
- Close the fuel tap.
- Transport the machine in an upright position to prevent fuel or oil leaks.
- When transporting over long distances, the fuel tank must be completely emptied to prevent fuel overflow.
- When transporting on a vehicle, lash the machine down properly.

**Note:** Only transport the machine upright!

### **TRANSPORT BY HAND**

Attach the machine to the drawbar and postpone.

### **TRANSPORT WITH CHASSIS**

1. Attach the drawbar to the towing vehicle.
2. The safety chain with the towing vehicle connect.
3. Check the tire pressure, approx. 1.7 bar.



**If the machine is unhitched from the towing vehicle, the stand must be refitted. Park the machine on a horizontal, level and firm surface.**

**Note:** The machine is not approved for use on public roads.

### **STORAGE**

Storage of the machine for one month or longer.

- Thoroughly remove chopped material, dirt and deposits from the motor and the machine. Clean the engine with a cloth. Avoid spraying with a strong jet of water (e.g. high-pressure cleaner), as water could get into the ignition and fuel system and cause malfunctions.
- Treat all moving parts with an environmentally friendly oil (do not use grease!) and start the machine briefly (run for 1-2 minutes).

- Drain the fuel. Leave the engine running until the fuel runs out.
- Clean the air filter and replace it if it is heavily soiled or damaged.
- Worn or damaged parts must be replaced. Ensure that all screw connections are tightened.
- Remove the spark plug connector.
- Cover the machine and motor to protect them from dust and store them in a dry, clean place out of the reach of children.
- Secure the machine against rolling away and unauthorized use (wheel chock). The machine must not be stored outdoors.
- Do not let children approach or play on the machine! Please leave the machine in a dry and ventilated area.

## 6. TROUBLESHOOTING

Before any troubleshooting



- Switch off the device
- Wait for the chopping blades to come to a standstill
- Remove spark plug cap

SYMPTOM	POSSIBLE CAUSE
<p>The engine won't start.</p> <p>(Please refer to the engine user manual for engine-specific procedures.)</p>	<ul style="list-style-type: none"> <li>➤ Is the ignition switch in the "ON" position?</li> <li>➤ Is the fuel shut-off valve on?</li> <li>➤ Are you using fresh, clean gas? If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than 30 days.</li> <li>➤ Is the spark plug clean? If the spark plug is dirty or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull the recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it.</li> </ul>
<p>The engine lacks power or is not running smoothly.</p> <p>(Please refer to the engine user manual for engine-specific procedures.)</p>	<ul style="list-style-type: none"> <li>➤ Check that the Throttle Lever is in the "Run" position.</li> <li>➤ Is the air filter clean? If it's dirty, change it following the procedure in the engine manufacturer's owner's manual.</li> <li>➤ Is the spark plug clean? If it's fouled or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull your recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it.</li> <li>➤ Are you using fresh, clean unleaded gas? If it's old, change it. Use a fuel stabilizer if you keep gas longer than 30 days.</li> <li>➤ Does your engine have the right amount of clean oil? If it's dirty, change it following the procedure in the engine manufacturer's owner's manual.</li> <li>➤ Check the oil level and adjust as needed.</li> </ul>
<p>Engine smokes.</p> <p>(Please refer to the engine user manual for engine-specific procedures.)</p>	<ul style="list-style-type: none"> <li>➤ Check the oil level and adjust as needed.</li> <li>➤ Check the air filter and clean or replace if needed.</li> <li>➤ You may be using the wrong oil—too light for the temperature. Refer to your Engine Owner's Manual for detailed information.</li> <li>➤ Clean the cooling fins if they're dirty.</li> </ul>
<p>Machine does not seem to have full chipping power.</p>	<ul style="list-style-type: none"> <li>➤ The belts may be too loose and slipping. Adjust or replace belts as need.</li> </ul>



# 7. DECLARATION OF CONFORMITY



BUILDER SAS

32 rue Aristide Berges -Z1 31270 Cugnaux - France

Tel: +33 (0) 5.34.508.508 Fax: +33 (0) 5.34.508.509

Déclare que la machine désignée ci-dessous  
PETROL PLANT SHREDDER  
HBT1515PRO

Serial number: 20240709971-20240709985

Is in conformity with the requirements of the **Directive Machine 2006/42/EC** and to the followings  
Europeans Directives: **EMC Directive 2014/30/EU**  
Emission directive (EU) 2016/1628 & 2018/989/EU

Directive 2000/14/CE Annex VI, 2005/88/EC

This tool is also in conformity with the following these standards:

EN ISO 12100 :2010

EN ISO 14120 :2015

EN ISO14982:2009

Sound power level: LwA: 117.6dB(A) , K=2.56dB(A)

Guarantee sound power level: 120 dB(A)

Responsable du dossier technique : Julia Zou

Cugnaux, 27/06/2024

Philippe MARIE / PDG

## 8. WARRANTY

# HYUNDAI

## WARRANTY

The manufacturer guarantees the product against defects in material and workmanship for a period of 2 years from the date of the original purchase. The warranty only applies if the product is for household use. The warranty does not cover breakdowns due to normal wear and tear.

The manufacturer agrees to replace parts identified as defective by the designated distributor. The manufacturer does not accept responsibility for the replacement of the machine, in whole or in part, and/or ensuing damage.

### The warranty does not cover breakdowns due to:

- insufficient maintenance.
- abnormal assembly, adjustment or operations of the product.
- parts subject to normal wear and tear.

### The warranty does not extend to:

- shipping and packaging costs.
- using the tool for a purpose other than that for which it was designed.
- the use and maintenance of the machine done in a manner not described in the user manual.

Due to our policy of continuous product improvement, we reserve the right to alter or change specifications without notice. Consequently, the product may be different from the information contained therein, but a modification will be undertaken without notice if it is recognized as an improvement of the preceding characteristic.

### READ THE MANUAL CAREFULLY BEFORE USING THE MACHINE.

When ordering spare parts, please indicate the part number or code, you can find this in the spare parts list in this manual. Keep the purchase receipt; without it, the warranty is invalid. To help you with your product, we invite you to contact us by phone or via our website:

- **+33 (0)9.70.75.30.30**
- **<https://services.swap-europe.com/contact>**

You must create a "ticket" via the web platform.

- Register or create your account.
- Indicate the reference of the tool.
- Choose the subject of your request.
- Describe your problem.
- Attach these files: invoice or sales receipt, photo of the identification plate (serial number), photo of the part you need (for example: pins on the transformer plug which are broken).



# 9. PRODUCT FAILURE

## WHAT TO DO IF MY MACHINE BREAKS DOWN?

### **If you bought your product in a store:**

- a) Empty the fuel tank if your product has one.
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.

Go to the store with the complete machine and with the receipt or invoice.

### **If you bought your product on a website:**

- a) Empty the fuel tank if your product has one..
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- c) Create a SWAP-Europe service ticket on the site: <https://services.swap-europe.com> When making the request on SWAP-Europe, you must attach the invoice and the photo of the nameplate (serial number).
- d) Contact the repair station to make sure it is available before dropping off the machine.

Go to the repair station with the complete machine packed, accompanied by the purchase invoice and the station support sheet downloadable after the service request is completed on the SWAP-Europe site

For machines with engine failure from manufacturers BRIGGS & STRATTON, HONDA and RATO, please refer to the following instructions.

Repairs will be done by approved engine manufacturers of these manufacturers, see their site:

- <http://www.briggsandstratton.com/eu/fr>
- <http://www.honda-engines-eu.com/fr/service-network-page;jsessionid=5EE8456CF39CD572AA2AEEDFD290CDAE>
- <https://www.rato-europe.com/it/service-network>

**Please keep your original packaging to allow for after-sales service returns or pack your machine with a similar cardboard box of the same dimensions.**

**For any question concerning our after-sales service you can make a request on our website <https://services.swap-europe.com>**

**Our hotline remains available at +33 (9) 70 75 30 30.**



# 10. WARRANTY EXCLUSIONS

## THE WARRANTY DOES NOT COVER:

- Start-up and setting up of the product.
- Damage resulting from normal wear and tear of the product.
- Damage resulting from improper use of the product.
- Damage resulting from assembly or start-up not in accordance with the user manual.
- Breakdowns related to carburetion beyond 90 days and fouling of carburetors.
- Periodic and standard maintenance events.
- Actions of modification and dismantling that directly void the warranty.
- Products whose original authentication marking (brand, serial number) has been degraded, altered or withdrawn.
- Replacement of consumables.
- The use of non-original parts.
- Breakage of parts following impacts or projections.
- Accessories breakdowns.
- Defects and their consequences linked to any external cause.
- Loss of components and loss due to insufficient screwing.
- Cutting components and any damage related to the loosening of parts.
- Overload or overheating.
- Poor power supply quality: faulty voltage, voltage error, etc.
- Damages resulting from the deprivation of enjoyment of the product during the time necessary for repairs and more generally the costs related to the immobilization of the product.
- The costs of a second opinion established by a third party following an estimate by a SWAP-Europe repair station
- The use of a product which would show a defect or a breakage which was not the subject of an immediate report and/or repair with the services of SWAP-Europe.
- Deterioration linked to transport and storage\*.
- Launchers beyond 90 days.
- Oil, petrol, grease.
- Damages related to the use of non-compliant fuels or lubricants.

\* In accordance with transport legislation, damage related to transport must be declared to carriers within 48 hours maximum after observation by registered letter with acknowledgement of receipt.

This document is a supplement to your notice, a non-exhaustive list.

**Attention:** all orders must be checked in the presence of the delivery person. In case of refusal by the delivery person, it you must simply refuse the delivery and notify your refusal.

**Reminder:** the reserves do not exclude the notification by registered letter with acknowledgement within 72 hours.

**Information:** Thermal devices must be wintered each season (service available on the SWAP-Europe site). Batteries must be charged before being stored.

# HYUNDAI

POWER PRODUCTS



GENUINE PRODUCT OF  
HYUNDAI CORPORATION

**For inquiries, please contact:**

BUILDER SAS

32 rue Aristide Bergès - Z.I. du Casque - 31270 Cugnaux - France

Tél.: +33(0)5.34.502.502 Fax.: +33(0)5.34.502.503

<http://www.hyundaipower-fr.com/>

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