

TITAN *pro ltd*



THE TITAN PRO TP1200 PETROL CHIPPER / SHREDDER/MULCHER



OPERATORS MANUAL AND PARTS LIST

Spares & Support: 0845 6800 962 - sales@titan-pro.co.uk
www.titan-pro.co.uk

Important: Please fully read and understand this manual before using this machine paying particular attention to the safety instructions

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INTRODUCING THE CHIPPER

This manual will help you set up and safely operate your chipper. Careful adherence to the safety and operating instructions in this manual will ensure many years of productive use.

DANGER!

THIS INDICATES A HAZARDOUS SITUATION, WHICH, IF NOT FOLLOWED COULD RESULT IN A SERIOUS INJURY OCCURING.

WARNING!

THIS INDICATES A HAZARDOUS SITUATION, WHICH, IF NOT FOLLOWED COULD RESULT IN A SERIOUS INJURY OCCURING.

CAUTION!

THIS INDICATES A HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, COULD RESULT IN MINOR OR MODERATE INJURY.

NOTICE!

THIS INFORMATION IS IMPORTANT FOR THE PROPER USE OF YOUR MACHINE. FAILURE TO FOLLOW THIS INSTRUCTION COULD RESULT IN DAMAGE TO YOUR MACHINE OR PROPERTY.

Specifications:

Engine: Gasoline 4-stroke, air cooled

Start type: Electric start or Manual start

Max output: 3600rpm

Fuel Tank capacity: 6.5L

Oil Capacity: 1.1L

Number of blade: 1pc

Max chipping capacity: 95mm

N.W.: 143kgs

G.W.: 168kgs

Packing dimensions: 1240X760X780mm

Accessories: glove, goggles, ear plugs, towing bar, oil funnel.

GENERAL SAFETY RULES

WARNING!

- READ THIS SAFETY & OPERATING MANUAL BEFORE YOU USE THE CHIPPER. BECOME FAMILIAR WITH THE OPERATION AND SERVICE RECOMMENDATIONS TO ENSURE THE BEST PERFORMANCE FROM YOUR MACHINE.
- THOROUGHLY INSPECT THE AREA IN WHICH YOU WILL BE WORKING AND REMOVE ALL FOREIGN OBJECTS. LOOK FOR ROPE, WIRE, ETC., AND REMOVE THESE OBJECTS BEFORE CHIPPING. INSERTING THESE OBJECTS INTO THE CHIPPER HOPPER COULD DAMAGE THE MACHINE AND/OR CAUSE INJURY.
- THIS IS A HIGH-POWERED MACHINE, WITH MOVING PARTS OPERATING WITH HIGH ENERGY AT HIGH SPEEDS. YOU MUST USE PROPER CLOTHING AND SAFETY GEAR WHEN OPERATING THIS MACHINE TO PREVENT OR MINIMIZE THE RISK OF SEVERE INJURY. DO NOT PLACE YOUR HANDS OR FEET INTO THE TOP FEED HOPPER OR THE DISCHARGE CHUTE

Labels





The chipper carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the safety and operation labels that appear on the equipment. Take a moment to study them and make a note of their location on your chipper as you assemble and before you operate the unit. Replace damaged or missing safety and operation labels immediately.



	<p>! DANGER</p> <p>Rotating knife and flywheel can cause death or severe injury.</p> <p>Do NOT place hands, body parts or other objects in or near the discharge chute while machine is running and parts are moving.</p> <p>Do NOT start or operate machine without discharge chute in place.</p> <p>Do NOT try to clear clogs while machine is running and parts are moving.</p> <p>Shut down engine, wait for all moving parts to come to a complete stop, remove spark plug wire, then wait 5 minutes before opening.</p>
	



<p>! WARNING</p>

<p>Rotating parts inside can cause severe injury.</p> <p>Shut down engine, wait for all moving parts to come to a complete stop, remove spark plug wire, then wait 5 minutes before opening.</p>

   	<p>! WARNING</p> <p>Rotating parts inside can cause severe injury.</p> <p>Improper use can cause fire and clutch damage.</p> <p>Keep hands, body parts and loose clothing clear of this area while machine is running and parts are moving.</p> <p>Do NOT start or operate machine without all guards in place.</p> <p>Shut down engine, wait for all moving parts to come to a complete stop, remove spark plug wire, then wait 5 minutes before opening.</p>
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<p>! WARNING</p>

<p>Rotating knife and flywheel can cause severe injury.</p> <p>Do NOT start or operate machine without all guards in place.</p> <p>Shut down engine, wait for all moving parts to come to a complete stop, remove spark plug wire, then wait 5 minutes before opening.</p>

 	<p>! WARNING</p> <p>High speed discharge and debris can cause severe injury.</p> <p>Stand clear of the discharge chute while machine is running and parts are moving.</p> <p>Keep bystanders, children, and pets 100 ft. from machine while in use.</p> <p>Always wear approved safety glasses when using this machine.</p> <p>Be aware of your surroundings, wind can cause the discharge and debris to change direction.</p>
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WARNING: Add Oil Before Starting Engine

	<p>! DANGER</p> <p>Avoid death or serious injury.</p> <p>Do NOT tow this machine faster than 10 MPH.</p> <p>This machine is not legal for street or highway use.</p>
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DANGER

Avoid death or serious injury.

Rotating cutting blades.

Do NOT insert hands, body parts, or metal objects in the hopper or discharge chute while the machine is running and parts are moving.



Shut down engine, wait for all moving parts to come to a complete stop, remove spark plug wire, then wait 5 minutes before clearing obstruction.



Keep hands, all body parts, and loose clothing away from moving parts.

Always wear approved safety glasses, hearing protection and gloves when using this machine.



Keep stones, nails, and other objects except branches out of the hopper.

Keep bystanders, children and pets 100 ft. from machine while in use.



Do NOT operate machine without the hopper, blow back shield, discharge chute and all guards securely in place.

Read and understand the operator's manual before servicing or operating this machine.



Protecting Yourself and Those Around You

WARNING!

THIS IS A HIGH-POWERED MACHINE, WITH MOVING PARTS OPERATING WITH HIGH ENERGY AT HIGH SPEEDS. YOU MUST OPERATE THE MACHINE SAFELY. UNSAFE OPERATION CAN CREATE A NUMBER OF HAZARDS FOR YOU, AS WELL AS ANYONE ELSE IN THE NEARBY AREA. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN USING THIS MACHINE:

- ALWAYS WEAR PROTECTIVE GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS WHILE CHIPPING TO PROTECT YOUR EYES FROM POSSIBLE THROWN DEBRIS.
- AVOID WEARING LOOSE CLOTHING OR JEWELRY, WHICH CAN CATCH ON MOVING PARTS OR THE MATERIAL FED INTO THE CHIPPER HOPPER.
- WE RECOMMEND WEARING GLOVES WHILE CHIPPING. BE SURE YOUR GLOVES FIT PROPERLY AND DO NOT HAVE LOOSE CUFFS OR DRAWSTRINGS.
- WEAR SHOES WITH NON-SLIP TREADS WHEN USING YOUR CHIPPER. IF YOU HAVE SAFETY SHOES, WE RECOMMEND WEARING THEM. DO NOT USE THE MACHINE WHILE BAREFOOT OR WEARING OPEN SANDALS.
- WEAR LONG PANTS WHILE OPERATING THE CHIPPER.
- USE EAR PROTECTORS OR EAR PLUGS.
- NEVER ALLOW PEOPLE WHO ARE UNFAMILIAR WITH THESE INSTRUCTIONS TO USE THE CHIPPER. ALLOW ONLY RESPONSIBLE INDIVIDUALS WHO ARE FAMILIAR WITH THESE RULES OF SAFE OPERATION TO USE YOUR MACHINE.

- NEVER PLACE YOUR HANDS, FEET, OR ANY PART OF YOUR BODY IN THE CHIPPER HOPPER, DISCHARGE OPENING, OR NEAR OR UNDER ANY MOVING PART WHILE THE MACHINE IS RUNNING. KEEP AREA OF DISCHARGE CLEAR OF PEOPLE, ANIMALS, BUILDINGS, GLASS, OR ANYTHING ELSE THAT WILL OBSTRUCT CLEAR DISCHARGE, CAUSE INJURY, OR DAMAGE. WIND CAN ALSO CHANGE DISCHARGE DIRECTION, SO BE AWARE. IF IT BECOMES NECESSARY TO PUSH MATERIAL INTO THE CHIPPER HOPPER, USE A SMALL DIAMETER STICK, NOT YOUR HANDS.
 - KEEP BYSTANDERS 100 FEET AWAY FROM YOUR WORK AREA AT ALL TIMES. WOOD CHIPS EXIT THE CHIPPER AT GREAT SPEEDS. TO BE SAFE, DONOT OPERATE THE MACHINE NEAR SMALL CHILDREN OR PETS, AND NEVER ALLOW CHILDREN TO OPERATE THE CHIPPER. STOP THE ENGINE WHEN ANOTHER PERSON OR PET APPROACHES.
 - THE FLYWHEEL WILL STILL ROTATE FOR A WHILE AFTER THE ENGINE IS SHUT OFF. SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP, REMOVE SPARK PLUG WIRE, THEN WAIT 5 MINUTES BEFORE MOVING OR WORKING ON THE CHIPPER.
 - NEVER USE THE MACHINE WITHOUT ENSURING THAT ALL GUARDS AND SHIELDS ARE IN PLACE, INCLUDING THE CHIPPER HOPPER, DISCHARGE CHUTE AND BLOWBACK SHIELD.
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WARNING!

- DO NOT OPERATE THE ENGINE WITH THE AIR CLEANER OR THE CARBURETOR AIR INTAKE COVER REMOVED. REMOVAL OF SUCH PARTS COULD CREATE A FIRE HAZARD. DO NOT USE FLAMMABLE SOLUTIONS TO CLEAN THE AIR FILTER.
- ALWAYS OPERATE THE MACHINE FROM THE OPERATOR ZONE . NEVER PASS OR STAND ON THE DISCHARGE SIDE OF THE MACHINE WHEN THE ENGINE IS RUNNING OR THE FLYWHEEL IS TURNING.
- NEVER TRY TO PICK UP, MOVE, OR TRANSPORT THE MACHINE WHILE THE ENGINE IS RUNNING OR THE FLYWHEEL IS TURNING. SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP (THE FLYWHEEL WILL CONTINUE ROTATING FOR A WHILE AFTER THE ENGINE IS SHUT DOWN), DISCONNECT SPARK PLUG WIRE, KEEPING IT AWAY FROM THE SPARK PLUG TO PREVENT ACCIDENTAL STARTING, THEN WAIT 5 MINUTES BEFORE MOVING.
- THE MUFFLER AND ENGINE BECOME VERY HOT AND CAN CAUSE A SEVERE BURN; DO NOT TOUCH.
- CLEAR THE AREA OF OBJECTS SUCH AS WIRE AND ROPE, ETC. INSERTING THESE OBJECTS INTO THE CHIPPER HOPPER COULD DAMAGE THE FLYWHEEL AND/OR CAUSE INJURY.
- NEVER, UNDER ANY CONDITIONS, REMOVE, BEND, CUT, FIT, WELD, OR OTHERWISE ALTER STANDARD PARTS ON THE CHIPPER. THIS INCLUDES ALL SHIELDS AND GUARDS. MODIFICATIONS TO YOUR MACHINE COULD CAUSE PERSONAL INJURIES AND PROPERTY DAMAGE.

Safety for Children and Pets

WARNING!

TRAGIC ACCIDENTS CAN OCCUR IF THE OPERATOR IS NOT ALERT TO THE PRESENCE OF CHILDREN AND PETS. CHILDREN ARE OFTEN ATTRACTED TO THE MACHINE AND THE CHIPPING ACTIVITY. NEVER ASSUME THAT CHILDREN WILL REMAIN WHERE YOU LAST SAW THEM. ALWAYS FOLLOW THESE PRECAUTIONS:

- KEEP CHILDREN AND PETS AT LEAST 100 FEET FROM THE WORKING AREA AND ENSURE THEY ARE UNDER THE WATCHFUL CARE OF A RESPONSIBLE ADULT.
- BE ALERT AND TURN THE MACHINE OFF IF CHILDREN OR PETS ENTER THE WORK AREA.
- NEVER ALLOW CHILDREN TO OPERATE THE CHIPPER.

Safety with Gasoline - Powered Machines

WARNING!

GASOLINE IS A HIGHLY FLAMMABLE LIQUID. GASOLINE ALSO GIVES OFF FLAMMABLE VAPOR THAT CAN BE EASILY IGNITED AND CAUSE A FIRE OR EXPLOSION. NEVER OVERLOOK THE HAZARDS OF GASOLINE. ALWAYS FOLLOW THESE PRECAUTIONS:

- NEVER RUN THE ENGINE IN AN ENCLOSED AREA OR WITHOUT PROPER VENTILATION AS THE EXHAUST FROM THE ENGINE CONTAINS CARBON MONOXIDE, WHICH IS AN ODORLESS, TASTELESS, AND DEADLY POISONOUS GAS.
- STORE ALL FUEL AND OIL IN CONTAINERS SPECIFICALLY DESIGNED AND APPROVED FOR THIS PURPOSE AND KEEP AWAY FROM HEAT AND OPEN FLAME, AND OUT OF THE REACH OF CHILDREN.
- REPLACE RUBBER FUEL LINES AND GROMMETS WHEN WORN OR DAMAGED AND AFTER 5 YEARS OF USE.
- FILL THE GASOLINE TANK OUTDOORS WITH THE ENGINE OFF AND ALLOW THE ENGINE TO COOL COMPLETELY. DON'T HANDLE GASOLINE IF YOU OR ANYONE NEARBY IS SMOKING, OR IF YOU'RE NEAR ANYTHING THAT COULD CAUSE IT TO IGNITE OR EXPLODE. REINSTALL THE FUEL TANK AND FUEL CONTAINER CAPS SECURELY.
- IF YOU SPILL GASOLINE, DO NOT ATTEMPT TO START THE ENGINE. MOVE THE MACHINE AWAY FROM THE AREA OF THE SPILL AND AVOID CREATING ANY SOURCE OF IGNITION UNTIL THE GAS VAPORS HAVE DISSIPATED. WIPE UP ANY SPILLED FUEL TO PREVENT A FIRE HAZARD AND PROPERLY DISPOSE OF THE WASTE.
- ALLOW THE ENGINE TO COOL COMPLETELY BEFORE STORING IN ANY ENCLOSURE. NEVER STORE THE MACHINE WITH GAS IN THE TANK OR A FUEL CONTAINER NEAR AN OPEN FLAME OR SPARK SUCH AS A WATER HEATER, SPACE HEATER, CLOTHES DRYER OR FURNACE.
- NEVER MAKE ADJUSTMENTS OR REPAIRS WITH THE ENGINE RUNNING OR FLYWHEEL TURNING. SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP (THE FLYWHEEL WILL CONTINUE ROTATING FOR A WHILE AFTER THE ENGINE IS SHUT DOWN), DISCONNECT SPARK PLUG WIRE, KEEPING IT AWAY FROM THE SPARK PLUG TO PREVENT ACCIDENTAL STARTING, THEN WAIT 5 MINUTES BEFORE MAKING ADJUSTMENTS OR REPAIRS.

- NEVER TAMPER WITH THE ENGINE'S GOVERNOR SETTING. THE GOVERNOR CONTROLS THE MAXIMUM SAFE OPERATION SPEED AND PROTECTS THE ENGINE. OVER-SPEEDING THE ENGINE IS DANGEROUS AND WILL CAUSE DAMAGE TO THE ENGINE AND TO THE OTHER MOVING PARTS OF THE MACHINE. IF REQUIRED, SEE YOUR AUTHORIZED DEALER FOR ENGINE GOVERNOR ADJUSTMENTS.
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General Safety



OPERATING THIS CHIPPER SAFELY IS NECESSARY TO PREVENT OR MINIMIZE THE RISK OF DEATH OR SERIOUS INJURY. UNSAFE OPERATION CAN CREATE A NUMBER OF HAZARDS FOR YOU. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN OPERATING THIS CHIPPER:

- KEEP IN MIND THAT THE OPERATOR OR USER IS RESPONSIBLE FOR ACCIDENTS OR HAZARDS OCCURRING TO OTHER PEOPLE, THEIR PROPERTY, AND THEMSELVES.
- THE CHIPPER IS A POWERFUL TOOL, NOT A PLAYTHING. EXERCISE EXTREME CAUTION AT ALL TIMES. THE DESIGN OF THIS MACHINE IS TO CHIP WOOD. DO NOT USE IT FOR ANY OTHER PURPOSE.
- KNOW HOW TO STOP THE CHIPPER QUICKLY.
- OPERATE THIS MACHINE ON A LEVEL SURFACE ONLY. NEVER OPERATE YOUR UNIT ON A SLIPPERY, WET, MUDDY, OR ICY SURFACE. EXERCISE CAUTION TO AVOID SLIPPING OR FALLING.
- KEEP YOUR FACE AND BODY BACK FROM THE CHIPPER HOPPER TO AVOID ACCIDENTAL BOUNCE BACK OF ANY MATERIAL.
- WHEN FEEDING MATERIAL INTO THE CHIPPER HOPPER, BE EXTREMELY CAREFUL THAT PIECES OF METAL, ROCKS, OR OTHER FOREIGN OBJECTS ARE NOT INCLUDED. PERSONAL INJURY OR DAMAGE TO THE MACHINE COULD RESULT.
- NEVER ALLOW AN ACCUMULATION OF PROCESSED MATERIAL TO BUILD UP IN THE DISCHARGE AREA AS THIS WILL PREVENT PROPER DISCHARGE AND CAN RESULT IN KICKBACK FROM THE CHIPPER HOPPER.
- WHENEVER YOU LEAVE THE OPERATING POSITION OR IF YOU HAVE TO REMOVE PROCESSED MATERIAL, LEAVES, OR DEBRIS FROM THE MACHINE, ALWAYS SHUT DOWN THE ENGINE. SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP (THE FLYWHEEL WILL CONTINUE ROTATING FOR A WHILE AFTER THE ENGINE IS SHUT DOWN), DISCONNECT SPARK PLUG WIRES, KEEPING THEM AWAY FROM THE SPARK PLUGS TO PREVENT ACCIDENTAL STARTING, THEN WAIT 5 MINUTES BEFORE REMOVING PROCESSED MATERIAL, LEAVES, OR DEBRIS FROM THE MACHINE.
- ALWAYS STOP THE ENGINE WHEN MOVING THE CHIPPER.
- KEEP COMBUSTIBLE SUBSTANCES AWAY FROM THE ENGINE WHEN IT IS HOT.
- NEVER COVER THE MACHINE WHILE THE MUFFLER IS STILL HOT.
- SEE MANUFACTURER'S INSTRUCTIONS FOR PROPER OPERATION AND INSTALLATION OF ACCESSORIES.

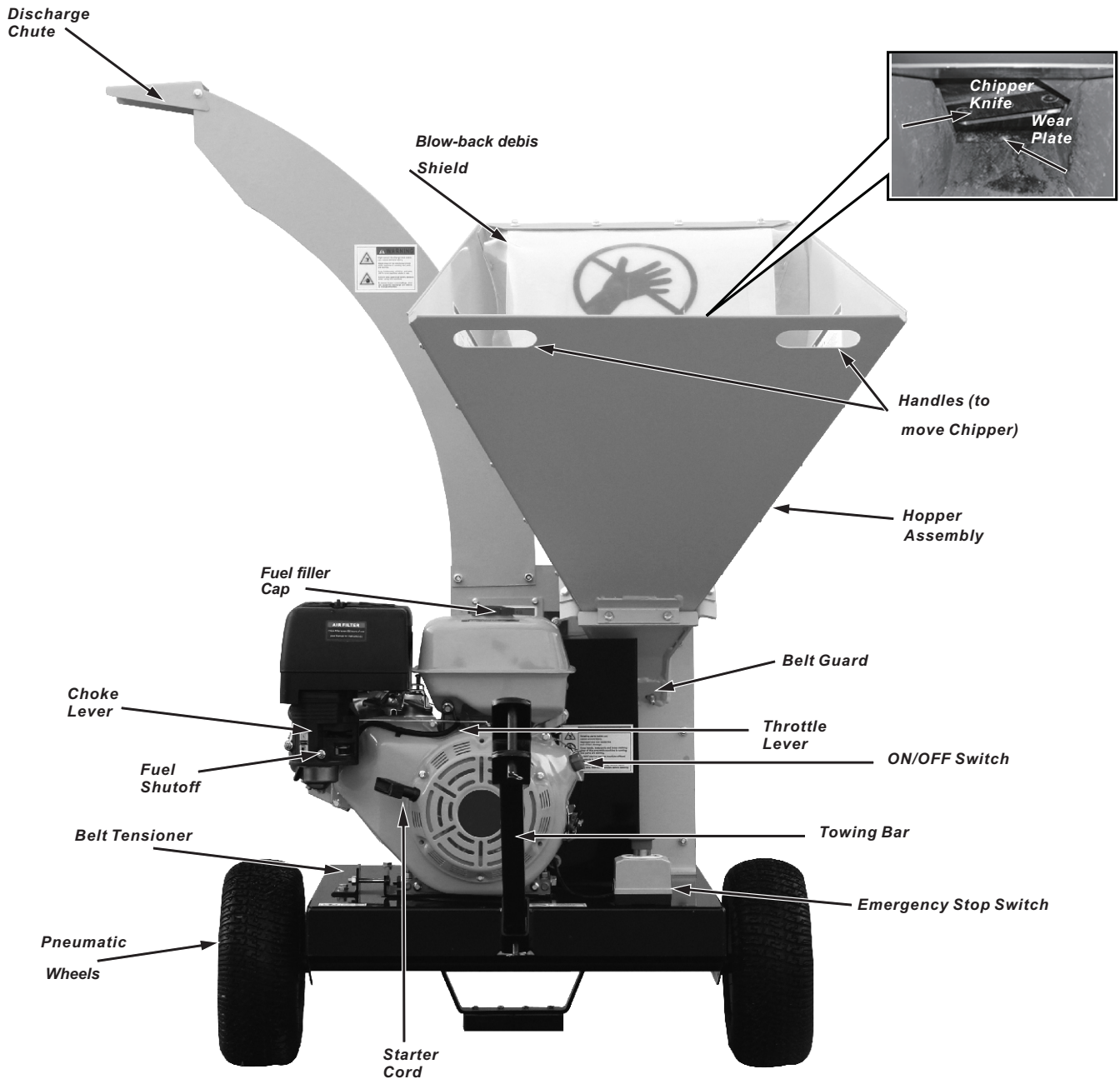
 **DANGER!**

- IF THE CUTTING MECHANISM STRIKES A FOREIGN OBJECT OR IF YOUR MACHINE SHOULD START MAKING AN UNUSUAL NOISE OR VIBRATION, SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP (THE FLYWHEEL WILL CONTINUE ROTATING FOR A WHILE AFTER THE ENGINE IS SHUT DOWN), DISCONNECT SPARK PLUG WIRES, KEEPING THEM AWAY FROM THE SPARK PLUGS TO PREVENT ACCIDENTAL STARTING, THEN WAIT 5 MINUTES BEFORE INSPECTING FOR CLOGGING OR DAMAGE. VIBRATION IS GENERALLY A WARNING OF TROUBLE. CLEAN AND REPAIR AND/OR REPLACE DAMAGED PARTS.
 - NEVER TAMPER WITH SAFETY DEVICES. CHECK THEIR PROPER OPERATION REGULARLY.
 - STAY ALERT FOR HIDDEN HAZARDS OR TRAFFIC. NEVER CARRY PASSENGERS ON YOUR MACHINE.
 - NEVER OVERLOAD OR ATTEMPT TO CHIP MATERIAL BEYOND THE MANUFACTURER'S RECOMMENDATION. PERSONAL INJURY OR DAMAGE TO THE MACHINE COULD RESULT.
 - WHILE USING THE CHIPPER, DON'T HURRY OR TAKE THINGS FOR GRANTED. WHEN IN DOUBT ABOUT THE EQUIPMENT OR YOUR SURROUNDINGS, STOP THE MACHINE AND TAKE THE TIME TO LOOK THINGS OVER.
 - NEVER OPERATE THE MACHINE WHEN UNDER THE INFLUENCE OF ALCOHOL, DRUGS, OR MEDICATION.
 - USE THE MACHINE ONLY IN DAYLIGHT.
 - KEEP ALL NUTS AND BOLTS TIGHT AND KEEP THE EQUIPMENT IN GOOD OPERATING CONDITION.
 - NO LIST OF WARNINGS AND CAUTIONS CAN BE ALL-INCLUSIVE. IF SITUATIONS OCCUR THAT ARE NOT COVERED BY THIS MANUAL, THE OPERATOR MUST APPLY COMMON SENSE AND OPERATE THIS CHIPPER IN A SAFE MANNER.
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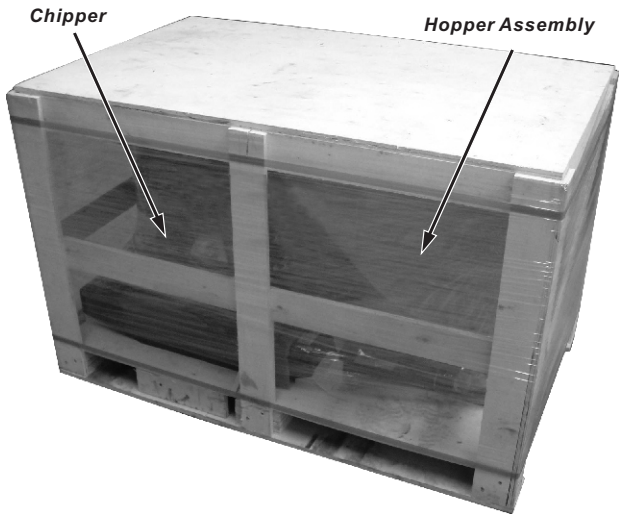
SETTING UP THE CHIPPER

This chapter outlines unpacking and a few simple steps you will need to follow to set up your new machine before you use it. It may be helpful to familiarize yourself with the controls and features of the chipper before beginning these procedures.

Chipper Controls and Features



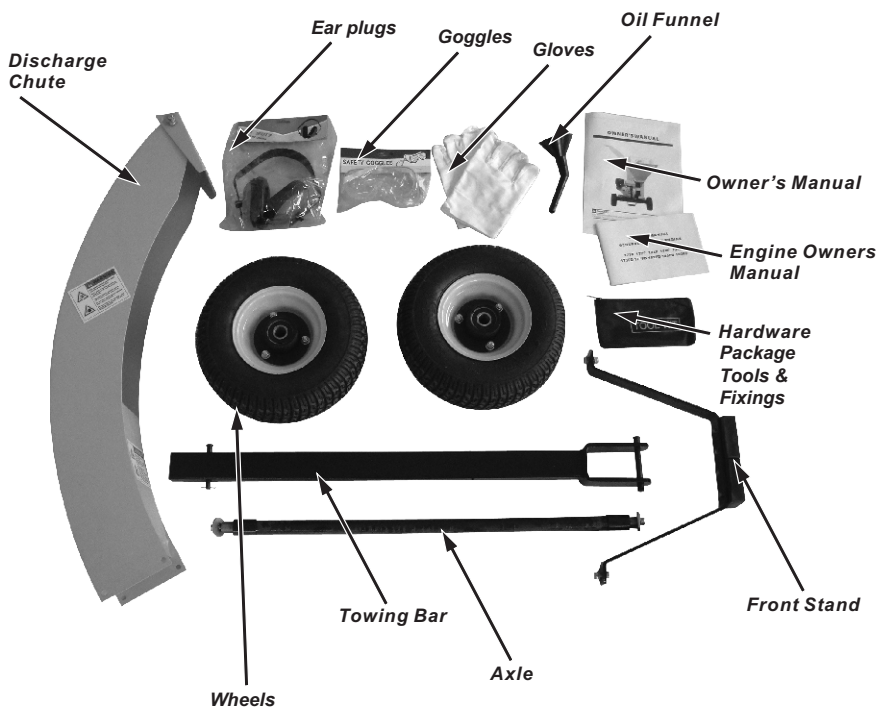
Unpacking the chipper



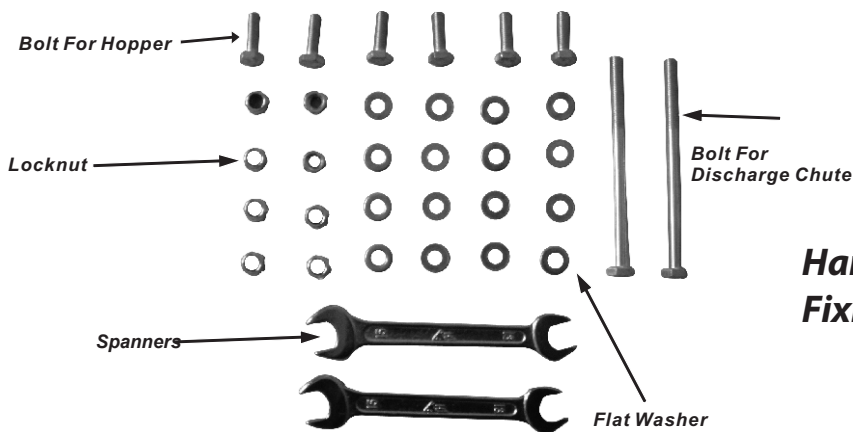
NOTE: Unpacking the chipper is a two-person job. We recommend you have an extra set of hands available before you begin because the chipper weighs 168kgs.

Tools and Supplies Needed:

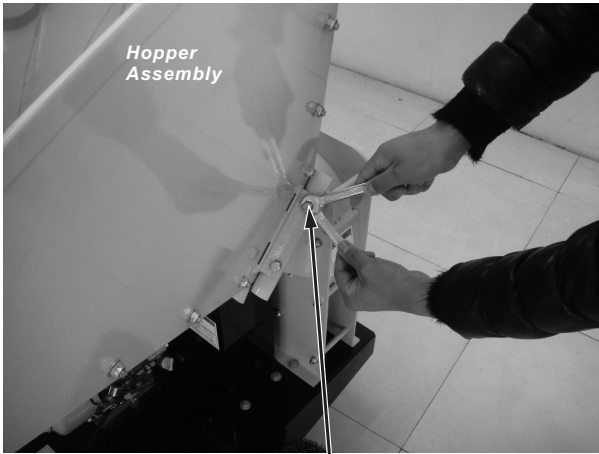
- Gloves
- Metal Shears (Side Cutters)
- Pry Bar
- Hammer



Parts included inside packing case.



Hardware Package Contents Fixings & Tools.



Hopper Hardware

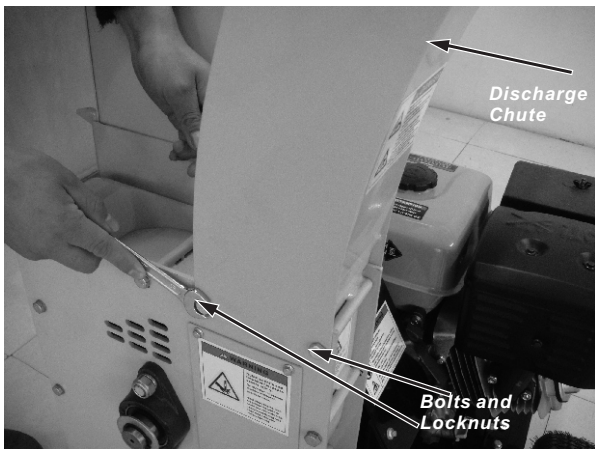
Attaching the Hopper Assembly

NOTE: We recommend that you have someone help you lift the Hopper in place and support it until it is secured to the Chipper.

Tools Needed:

- Two ½" Spanners
1. Attach the Hopper Assembly to the Chipper with six Bolts, twelve Flat Washers (one Washer on Bolt side and one on Lock Nut side) and six Nylon Lock Nuts.

NOTE: Install hardware with Bolt Head on the top side.



Attaching the Discharge Chute

Tools Needed:

- Two ½" Spanners
1. Position the Discharge Chute as shown and insert the two Bolts and Nylon Locknuts hand tight.
 2. Tighten the two Bolts and Nylon Lock Nuts.

OPERATING THE CHIPPER

This chapter covers the procedures for starting and stopping the chipper and discusses basic operation features.

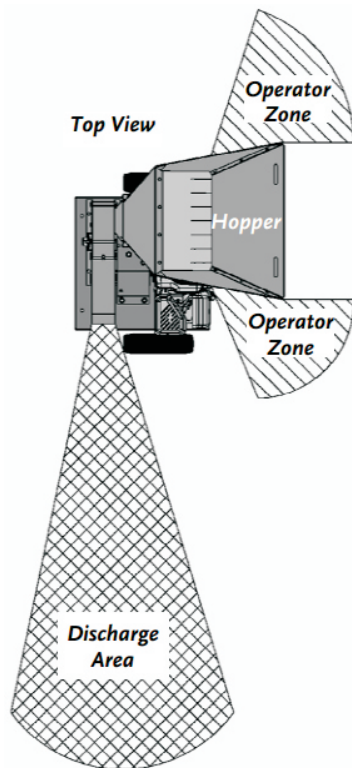
! DANGER!

- THE DESIGN OF THIS MACHINE IS FOR CHIPPING WOOD. NEVER USE THIS MACHINE FOR ANY OTHER PURPOSE AS IT COULD CAUSE SERIOUS INJURY.
 - CONTACT WITH INTERNAL ROTATING PARTS WILL CAUSE SERIOUS PERSONAL INJURY. **NEVER** PUT HANDS, FACE, FEET, OR CLOTHING INTO CHIPPER HOPPER OR DISCHARGE OPENING OR NEAR THE DISCHARGE AREA AT ANY TIME.
 - BEFORE PERFORMING ANY MAINTENANCE PROCEDURE OR INSPECTION, SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP (THE FLYWHEEL WILL CONTINUE ROTATING FOR A WHILE AFTER THE ENGINE IS SHUT DOWN), DISCONNECT SPARK PLUG WIRE/CAP, KEEPING IT AWAY FROM THE SPARK PLUG TO PREVENT ACCIDENTAL STARTING, THEN WAIT 5 MINUTES BEFORE PROCEEDING. USE ONLY A WOODEN STICK TO CLEAR JAMMED MATERIAL.
-

Before Starting the Engine

1. Check the oil level every time you use the chipper needed.
2. Check the fuel level. Add fuel as needed.
3. Ensure that the Fuel Shut-Off Valve is in the "ON" position.
4. **Remove any debris buildup from the machine before every use of the Chipper.**





Operation Notes

- Visually check the Chipper Knife for damage before each use of the machine.
- At engine start-up, the engine of your chipper operates under no load until approximately 1000 RPM, at which speed the Centrifugal Clutch engages and begins driving the Rotor Assembly. Always operate the Engine at full speed when chipping (3400 +/- 200 RPM).
- **Only operate the chipper from the Operator marked working Zones.**
- Keep a proper balance and footing while operating the chipper.
- ALWAYS stop the engine when leaving the Operating Zones or when moving the machine.
- **Never move the Chipper while the engine is running or the Flywheel is turning.**

Processing Material

! WARNING!

- ALWAYS WEAR PROTECTIVE GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS WHILE CHIPPING TO PROTECT YOUR EYES FROM POSSIBLE THROWN DEBRIS.
- AVOID WEARING LOOSE CLOTHING OR JEWELRY, WHICH MIGHT CATCH ON MOVING PARTS OR THE MATERIAL FED INTO THE CHIPPER HOPPER.
- WE RECOMMEND WEARING GLOVES WHILE CHIPPING. BE SURE YOUR GLOVES FIT PROPERLY AND DO NOT HAVE LOOSE CUFFS OR DRAWSTRINGS.
- WEAR SHOES WITH NON-SLIP TREADS WHEN USING YOUR CHIPPER. IF YOU HAVE SAFETY SHOES, WE RECOMMEND WEARING THEM. DO NOT USE THE MACHINE WHILE BAREFOOT OR WEARING OPEN SANDALS.
- WEAR LONG TROUSERS WHILE OPERATING THE CHIPPER.
- USE EAR PROTECTORS OR EAR PLUGS TO PROTECT YOUR HEARING.

! WARNING!

THE CHIPPER HOPPER MUST BE SECURELY BOLTED TO YOUR CHIPPER AND THE BLOWBACK SHIELD IN PLACE BEFORE USING THE MACHINE!

! NOTICE!

USE COMMON SENSE WHEN USING THE MACHINE. LEARN TO RECOGNIZE THE CHANGE IN SOUNDS WHEN OVERLOADED. TURN OFF THE ENGINE IMMEDIATELY IF THE MACHINE BECOMES JAMMED TO PREVENT DAMAGE TO THE DRIVE SYSTEM.

The Chipper is designed to accept wood only. The Chipper Knife mounted on a revolving flywheel turns branches fed into the Chipper Hopper into “chips”. The Chipper can chip branches ranging in size up to 4" in diameter. Cut your branches into manageable lengths before feeding them into the Chipper Hopper.

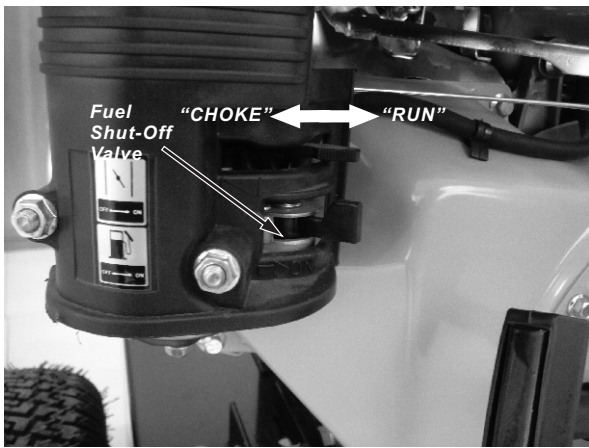
- Your chipper can process dry or green wood up to 4" in diameter.
- The Chipper will self-feed the wood once it contacts the knife edge so forcing the branches into the Hopper is not necessary if the knife is sharp.
- Green wood will process quicker and easier than dry wood.
- Soft wood processes easier than hardwood.
- Your operator experience will teach you how different types of wood will chip and how fast you can process them.
- When chipping branches, sometimes a tail will develop at the end of a branch. To avoid this, rotate the branch while feeding it into the Chipper Hopper.
- Rotating the branch as you feed it into the machine will improve chipping performance.
- Use caution with small diameter green saplings and branches less than 2" in diameter. Chip these grouped or bundled together to provide support for each other. If the material is 2" or larger, feed only one at a time into the Chipper Hopper.
- Make sure the chipper finishes processing material in the Hopper before shutting the engine off.
- Do not force material into the Chipper. If the machine does not chip well, the Chipper Knife may need sharpening or replacement, or the gap between the Knife and the Wear Plate needs adjusting.

! NOTICE!

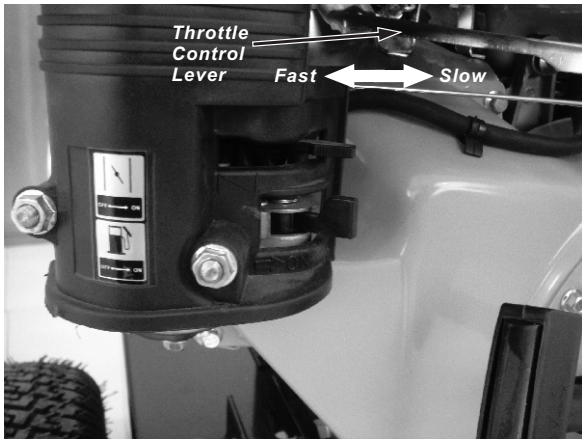
NEVER THROW REMAINING STUBS OR KNOTS INTO THE CHIPPER HOPPER; DAMAGE WILL RESULT.

- Extremely hard knots will not process very well. Push any short stubs that have not self-fed through the Chipper, with the next branch to be chipped.
- Cut the material to be chipped into manageable lengths of no more than five or six feet long before chipping them.
- Overloading the Chipper Hopper will cause the rotor speed to decrease. If you hear the engine RPM decreasing, stop feeding material into the Chipper Hopper until the engine has returned to full speed.

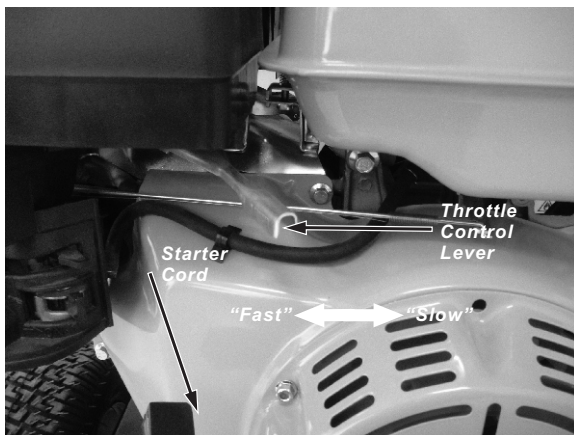
Starting the Engine



1. Ensure that the Fuel Shut-Off Valve is in the "ON" position.
2. Move the Choke Control Lever to the "CHOKE" (LEFT) position. Leave in the "RUN" (RIGHT) position if the engine is already warm.



3. Move the Throttle Control Lever to about half way between Slow and Fast position.



4. Slowly pull the Starter Cord until you feel resistance, then pull quickly. The Cord will recoil back into position.
5. As the engine warms up, slowly adjust the Choke to the "RUN" (RIGHT) position. Wait until the engine runs smoothly before each Choke adjustment.
6. When the Engine is warmed up and running smoothly with the Choke in the "RUN" (RIGHT) position, move the Throttle Control Lever to the fast position for chipping.

Stopping the Engine

WARNING!

THE FLYWHEEL WILL STILL ROTATE FOR A WHILE AFTER THE ENGINE IS SHUT OFF. SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP, REMOVE SPARK PLUG WIRE, THEN WAIT 5 MINUTES BEFORE MOVING OR WORKING ON THE CHIPPER.

NOTICE!

NEVER STOP THE ENGINE BY MOVING THE CHOKE LEVER TO THE "CHOKE" (LEFT) POSITION. THIS COULD CAUSE AN ENGINE BACKFIRE RESULTING IN ENGINE DAMAGE.

1. Slowly move the Throttle Control Lever all the way to the "SLOW" position.
2. Turn the ON/OFF Switch to OFF Position.

NOTE: Close the Fuel Shut-Off Valve when transporting or storing the chipper

Moving the chipper

The chipper can be easily moved using handles provided on the moved using handles provided on the Hopper. The Chipper can also be moved by an ATV or a garden tractor with a towing bar.

WARNING!

NEVER TRY TO PICK UP, MOVE, OR TRANSPORT THE MACHINE WHILE THE ENGINE IS RUNNING OR THE FLYWHEEL IS TURNING. SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP (THE FLYWHEEL WILL CONTINUE ROTATING FOR A WHILE AFTER THE ENGINE IS SHUT DOWN), DISCONNECT SPARK PLUG WIRE, KEEPING IT AWAY FROM THE SPARK PLUG TO PREVENT ACCIDENTAL STARTING, THEN WAIT 5 MINUTES BEFORE MOVING.

1. Grab the Handles on the Hopper and tip the Chipper towards you so the Front Stand is lifted off the ground.
2. Move the Chipper to the desired location.

MAINTAINING THE CHIPPER

This chapter covers regular maintenance procedures that will ensure the best performance and long life of your chipper. For engine maintenance, please refer to the Engine Owner's Manual that came with your machine. Service intervals listed in the checklist below supercede those listed in the Engine Owner's Manual.

NOTICE!

SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP, REMOVE SPARK PLUG WIRE, THEN WAIT 5 MINUTES BEFORE PERFORMING MAINTENANCE ON THE CHIPPER.

Regular Maintenance Check List

NOTE: Consider that the service intervals shown are the maximum under normal operating conditions. Increase frequencies under extremely dirty or dusty conditions.

Procedure	Before Each Use	Every 8-10 Hours	Every 40 Hours
Check Engine Oil Level	▲		
Check General Equipment Condition	▲		
Check that the Flywheel turns freely (with a long stick only)	▲		
Visually inspect Knife for damage	▲		
Check Knife and Wear Plate for Sharpness		▲	
Check Knife and Wear Plate Attachment Screws		▲	
Check Flywheel Bearing Collar Set Screws		▲	
Check Knife to Wear Plate Gap		▲	
Lubricate Flywheel Bearings		▲	
Check Belt Tension and Condition	1 st time 1 hour	▲	
Clean Engine Exterior and Cooling Fins		▲	
Check the Tyre Pressure			
Change Engine Oil	1 st time 5 hours		▲
Inspect or replace Drive Belt			▲
Inspect or replace Spark Plug			▲
Inspect or replace Air Filter and Precleaner			▲

TROUBLESHOOTING

Most problems are easy to fix. Consult the Troubleshooting Table below for common problems and their solutions.

WARNING!

SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP, REMOVE SPARK PLUG WIRE, THEN WAIT 5 MINUTES BEFORE PERFORMING ANY MAINTENANCE PROCEDURE OR INSPECTION ON THE CHIPPER.

Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>The engine won't start (Please refer to the Engine Owner's manual for engine-specific procedures.)</i>	<ul style="list-style-type: none">⇒ Is the Fuel Shut-Off Valve in the ON position?⇒ Is the spark plug wire attached?⇒ Is the Fuel Tank empty?
<i>The engine lacks power or is not running smoothly. (Please refer to the Engine Owner's manual for engine-specific procedures.)</i>	<ul style="list-style-type: none">⇒ Check the Throttle Lever travel and adjustment. Is the Throttle Lever in the RUN position?⇒ Is the Choke lever pushed all the way over to the RUN position?⇒ Is the air filter clean? If it's dirty, change it following the procedure in the Engine Owner's Manual.⇒ Is the spark plug clean? If it is fouled or cracked, change it. If it is oily, leave it out, hold a rag over the spark plug hole and pull the starter cord for a few times to blow out any oil in the cylinder, then wipe off the spark plug and reinsert it.⇒ Are you using fresh, clean unleaded fuel? If it's old, change it. Use a fuel stabilizer if you keep fuel longer than two weeks or so.⇒ Does your engine have the right amount of clean oil? If it's dirty, change it.

WARNING!

SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP, REMOVE SPARK PLUG WIRE, THEN WAIT 5 MINUTES BEFORE PERFORMING ANY MAINTENANCE PROCEDURE OR INSPECTION ON THE CHIPPER.

Troubleshooting Table (continued)

SYMPTOM	POSSIBLE CAUSE
<i>Engine smokes.</i>	<ul style="list-style-type: none"> ⇒ Check the oil level and adjust as needed. ⇒ You may be operating the machine on too great an incline. The machine should be level. ⇒ Check the air filter and clean or replace if needed. ⇒ You may be using the wrong oil -too light for the temperature. Refer to your Engine Owner's Manual for detailed information. ⇒ Clean the engine cooling fins and the carburetor housing if they're dirty.
<i>Chipping action seems too slow or flywheel stalls.</i>	<ul style="list-style-type: none"> ⇒ The engine speed is too slow causing the belt to slip. Run the engine at full throttle. ⇒ Check for a loose or damaged Drive Belt; tighten or replace. ⇒ Check for a dull or damaged Knife; sharpen or replace the Knife.
<i>The belt frays or rolls over the pulley.</i>	<ul style="list-style-type: none"> ⇒ The rotor Drive Pulley groove may be nicked. Check the Drive Belts for wear and hard spots. File off any nicks on the pulley. ⇒ The Drive Belts may be stretched; replace them. ⇒ The Pulleys may be misaligned.
<ul style="list-style-type: none"> - Clutch overheats. . - Belt burns. . - Flywheel won't turn. 	<ul style="list-style-type: none"> ⇒ Immediately stop the engine and disconnect the spark plug wire. ⇒ Turn the Flywheel with a wooden stick to be sure it turns freely. ⇒ Check for a loose Drive Belt. ⇒ Remove any built up debris from the Chipper Hopper Inlet and Discharge Chute.
<i>The machine has excessive vibration.</i>	<ul style="list-style-type: none"> ⇒ Check for a dull or damaged Knife; sharpen or replace the Knife. ⇒ The Knife is not properly seated on the flywheel. Loosen the Knife mounting screws, reset the Knife and tighten the screws. Also, check the Knife to Wear Plate Gap.

WARNING!

SHUT DOWN THE ENGINE, WAIT FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP, REMOVE SPARK PLUG WIRE, THEN WAIT 5 MINUTES BEFORE PERFORMING ANY MAINTENANCE PROCEDURE OR INSPECTION ON THE CHIPPER.

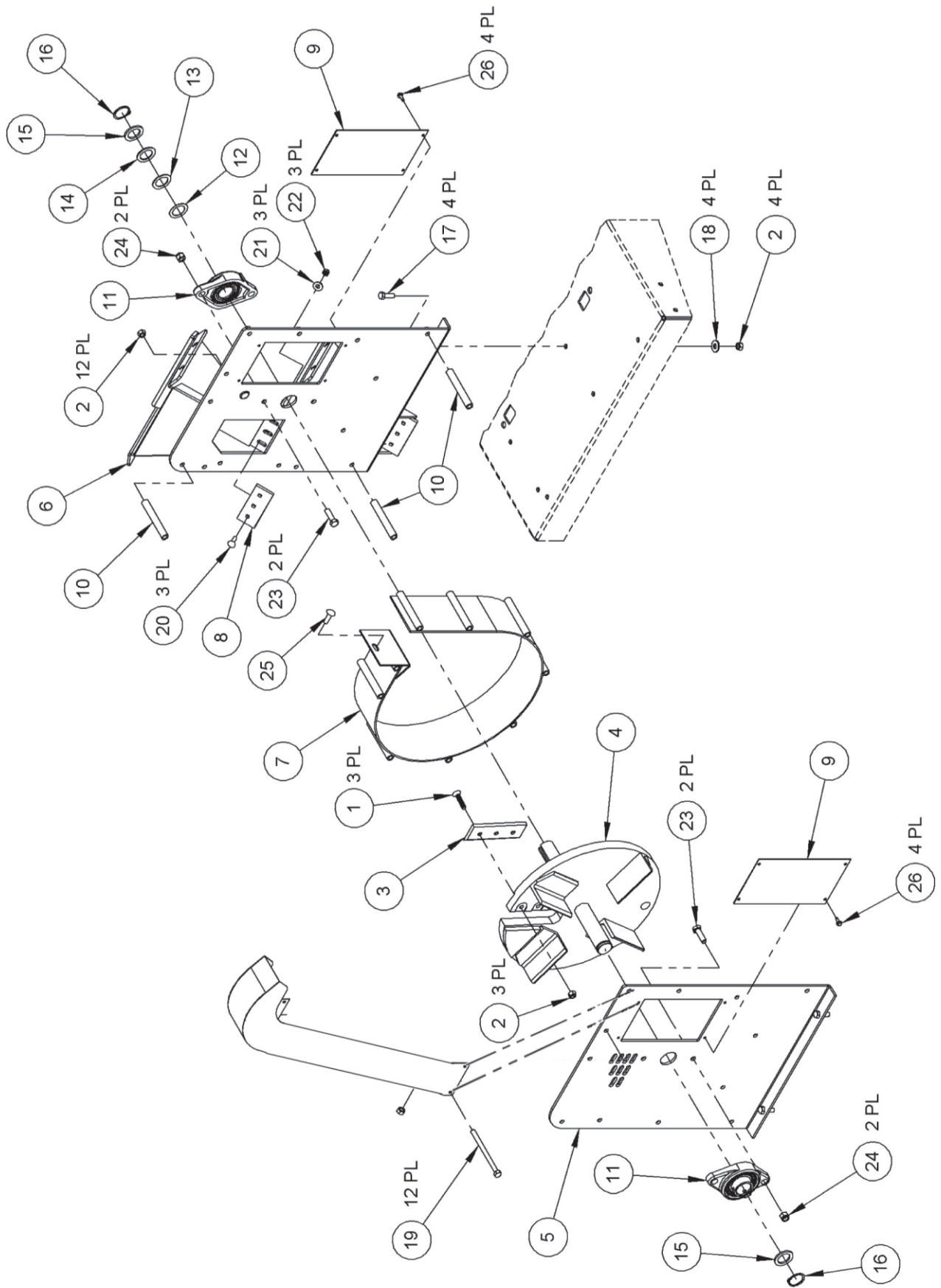
Troubleshooting Table (continued)

SYMPTOM	POSSIBLE CAUSE
<i>When chipping, the log seems to vibrate excessively and "hammers" my hands.</i>	<ul style="list-style-type: none">⇒ The Knife is dull; sharpen or replace it.⇒ The gap between the Knife and Wear Plate is too great; adjust the Gap.⇒ Check Engine rpms; run Engine at full throttle when chipping.
<i>Chipper Knife is hitting the Wear Plate.</i>	<ul style="list-style-type: none">⇒ The gap between the Knife and the Wear Plate is set incorrectly; adjust the Knife to Wear Plate Gap.
<i>Engine runs but the flywheel doesn't rotate..</i>	<ul style="list-style-type: none">⇒ The inner Shoes of the Clutch are worn. Replace worn or broken Clutch.⇒ Loose Drive Belt; adjust the Drive Belt tension.⇒ Remove any built-up debris from the Chipper Hopper Inlet and Discharge Chute.
<i>The machine's wheels track left or right while being towed.</i>	<ul style="list-style-type: none">⇒ Check the tyre pressures.

Parts List-Chipper

<u>Ref#</u>	<u>Description</u>	<u>Ref#</u>	<u>Description</u>
01	Chipper Basic Assembly	23	Washer
02	Discharge Weldment	24	Washer
03	Hopper, Top	25	Belt, V
04	Hopper Weldment, Left	26	Key
05	Hopper Weldment, Right	27	Sheave
06	Hopper Weldment, Bottom	28	Bolt
07	Bracket, Guard	29	Bolt
08	Support, Blow-Back	30	Flat Washer
09	Shield, Blow-Back	31	Bolt
10	Bolt, Hex Head	32	Axle
11	Nut, Nylon Lock	33	Collar
12	Bolt, Philips Head	34	Wheel
13	Nut, Nylon Lock, Thin	35	Spacer
14	Frame, Base	36	Stand, Front
15	Bracket, Belt Tension	37	Guard, Belt, Front
16	Plate, Engine	38	Guard, Top, Belt
17	Engine	39	Bracket, Belt Guard
18	Washer	40	Bracket
19	Drain Plug	41	Washer
20	Clutch	42	Nut
21	Shim	43	Guard, Belt, Back
22	Bolt		

Schematic- Chipper Basic Assembly



Parts List – Chipper Basic Assembly

<u>Ref#</u>	<u>Description</u>
01	Screw
02	Nut
03	Knife
04	Flywheel Weldment
05	Sideplate, Vent
06	Sideplate Weldment, Chute
07	Scroll Weldment
08	Plate
09	Cover
10	Tube
11	Bearing
12	Shim
13	Shim
14	Shim
15	Shim
16	Ring, Retaining
17	Bolt
18	Washer
19	Bolt
20	Bolt
21	Washer
22	Nut
23	Bolt
24	Nut
25	Bolt
26	Screw



EC Declaration of Conformity

We, The Importer

Titan Pro ltd

**Declare that the product Titan 15hp Petrol Chipper/
Mulcher Model – TP1200**

Complies with the following directives:

2006/42/EC- Machinery Directive

2004/108/EC-Electromagnetic Compatibility Directive

2005/88/EC – Noise Emission in the Environment by equipment for use outdoors
Directive.

The conformity assessment procedure was followed in accordance with Annex V of the
Directive 2000/14/EC.

Measured Sound Pressure level: 108.4db(A)

Guaranteed Sound Power level: 110db(A)

Standards and technical specifications referred to:

EN13683:2003+A2:2011

Authorised Signature

A rectangular box containing a handwritten signature in black ink, which appears to read 'P. Mulholland'.

Date: 26/06/2014

Name/Title: Mr Philip Mulholland – Purchasing Director

Titan Pro ltd ,Discovery Court 551-553 Wallisdown Road Poole BH12 5AG