



## **C70 Chipper**

# **Safety, Operations & Maintenance Instructions**

## INTRODUCTION

This manual contains information concerned with safe practices when operating the machine, safety precautions that are necessary during operation, maintenance instructions and troubleshooting.

Before operating the machine it is imperative to have read and understood this manual. The instructions of this manual are intended to be read and followed to ensure the proper running of the C70 Chipper and the safety of the user.

In the case of sale or transfer of the machine, this manual must be handed over. In the event that this manual is damaged or lost, the owner must ask the manufacturer or the former owner for a copy. This manual is to be considered as an integral part of the machine.

The information conveyed in this manual is reflective of the machine at point of sale. The manufacturer has the right to modify the machine for technical or commercial reasons and this does not make the manual unsuitable for use.

The copyright for this manual belongs to the manufacturer. The technical texts, images and pictures within this manual cannot be published or used, completely or in part, without written consent from the manufacturer.

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# **INFORMATION ABOUT THE MACHINE**

## **INTENDED USE OF C70 CHIPPER**

The Truyard C70 Chipper is designed to chip most branches and prunings with a diameter of up to 70mm alongside organic material waste such as palm and shrubs. It is not designed to process inorganic waste.

## **MACHINE DESCRIPTION**

The Truyard C70 Chipper's chipping mechanism consists of a flywheel with two mounted blades. As the flywheel rotates at a high speed, the blades chip the incoming material.

The C70 Chippers consists of the following features:

- A pair of pneumatic wheels to manoeuvre the machine
- A chipper chute to guide the material to the blades
- A flywheel with two chipper blades
- An engine
- A discharge chute to distribute the chippings
- A handle
- A frame with a stand

## IDENTIFICATION OF MAIN PARTS

Chipper  
Chute

Handle

Discharge  
Chute

Engine

Pneumatic  
Wheels

Frame and  
Stand



Flywheel

(Disconnect  
the spark plug  
before  
opening the  
discharge  
chute)

SPECIFICATIONS

Engine Specifications		Transmission	
Engine	Honda GX200 or Briggs & Stratton 5hp	Belt Drive	V Belt A section
Engine Type	Petrol	Pulleys	Cast iron
Cutting System		Centrifugal Clutch	Yes
Chipping Capacity	Up to 70mm	Machine Construction	
Number of Blades	1	Weight	85kg
Self-feeding	Yes	Chassis	Steel construction
Special Features		Wheels	Pneumatic 210mm with steel ball bearing
Warranty	Domestic Application 2 years, Commercial Application 3 Months	Anvil	Easily adjustable

# SAFETY PRECAUTIONS

## ACCIDENT PREVENTION MEASURES



***STRICT ADHERANCE TO THE FOLLOWING RULES, PRECAUTIONS AND SAFETY MEASURES LISTED HERE MUST BE CONDUCTED TO AVOID THE DANGER OF ACCIDENT AND DAMAGE TO PEOPLE AND THE MACHINE.***

- 1) Ensure that the operator of the machine has read and understood fully this manual and the engine manual
- 2) Always wear suitable footwear. Do not use in bare feet
- 3) Always stop the engine and disconnect the sparkplugs when guards are not in place
- 4) Check that the items to be chipped are free of all foreign debris. This includes and is not limited to nails, wire rope etc
- 5) Do not allow children to come near the C70 Chipper. Always ensure that the children are at a safe distance and are well away from the machine
- 6) Do not put hands whatsoever inside the machine or near the belt or blade while the machine is running
- 7) Read the engine manufactures operating instructions carefully. Do not alter governor settings or over speed the engine
- 8) Take great care when refuelling the engine. Never have a lighted flame near refuelling area. Always refuel outdoors. Always turn off engine when you are refuelling and do not refuel if engine is hot. If spillage occurs mop up immediately and wait a suitable time so the fumes disappear. When storing fuel make sure it is in a suitably designed container and it is stored in a cool dry place
- 9) Use your C70 Chipper only in daylight when visibility is good
- 10) When using the C70 Chipper slopes should be treated with caution. Never place the C70 Chipper on uneven ground
- 11) Never leave the C70 Chipper unattended whilst engine is running
- 12) Do not use C70 Chipper in confined spaces with no ventilation
- 13) It is advisable to wear safety glasses and hearing protection whilst operating the C70 Chipper
- 14) Always operate with all guards in place

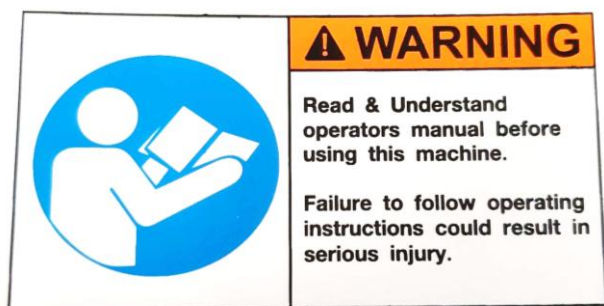
## SAFETY LABELS AND DESCRIPTIONS



**CAUTION** – keep hands and feet away from the discharge and inlet openings on the machine as this could cause injury








**CAUTION** – the operating of the engine, its maintenance and starting must be done after having read the manual to prevent any harmful incidents and misuse of the engine from occurring



**CAUTION** – ensure that the operator has read and understood this manual before operating the machine to prevent injury



 <p><b>DANGER</b></p> <p>KEEP HANDS AND FEET AWAY</p> 	<p><b>CAUTION</b> – keep hands and feet away from openings on the machine to prevent injury</p>
 <p><b>CAUTION</b></p> <p>HOT MUFFLER CAN BURN YOU. Stay away if engine has been running.</p>	<p><b>CAUTION</b> – ensure you or anyone around you does not touch the hot muffler after use of the machine to prevent injury</p>
 <p><b>DANGER</b></p> <p><b>ROTATING BLADES</b></p> <ul style="list-style-type: none"> <li>• Do not operate without discharge chute fastened in place</li> <li>• Do not put hands in discharge chute</li> </ul>	<p><b>CAUTION</b> – ensure all guards are firmly in place and that hands and feet are kept away from the rotating blades in the machine to prevent injury</p>
 <p><b>WARNING</b></p> <p>Gasoline is highly flammable and explosive. Turn engine off and let cool before refueling.</p> <p>The engine emits toxic carbon monoxide. Do not run in an enclosed area.</p> <p>Read Owner's Manual before operation.</p>	<p><b>CAUTION</b> – when operating, make sure that the operator has fully read and understood the engine manual, do so in an open area and only refuel the machine once cool</p>

## AFTER A PERIOD OF INACTIVITY

Ensure the following checks have been done on the C70 before operation after a long period of inactivity:

- Check that the machine is undamaged and all guards are attached
- Check all the mechanical parts of the machine are not rusty and are in working condition
- Ensure the flywheel and the blades rotate freely, are sharp and are connected to the machine
- Ensure that the engine has sufficient oil and fuel
- Check all nuts and bolts are tight

# OPERATING INSTRUCTIONS

## BEFORE USE

Before operating the machine it is important to ensure the following to use the machine to its full capability and to keep the operator and the surrounding area safe.

- Make sure that the operator has read and understood how to use the engine as per the manufacturer's instructions
- Ensure that the oil and fuel in the engine are as per the engines manufacturers instructions
- Check that all guards and parts are in place
- Make sure the throttle control is at its lowest setting. At idle the centrifugal clutch should be disengaged
- Ensure that the C70 is located on flat, even ground and that there are no people or animals in the vicinity of its working function, including the ejection from the discharge chute
- Ensure that the operator has read and understood this manual, including how to control the machine
- Wear the prescribed safety equipment
- Check that the material to go through the C70 does not contain nails, ropes or any metal object that can damage the machine whilst it is being chipped

## DURING OPERATION

Once satisfied that the above criteria have been met, turn on the engine as per the manufactures instructions. Once running:

- Gently increase the throttle until the clutch engages and the blades rotate. Operate the C70 Chipper at near full throttle for optimal performance
- For the C70 Chipper all branches go through the chipper chute. It is best if the thickest end of the branch gets fed into the chipper chute first; generally this is the end that you cut the branch at. Sometimes it may be required to prune the side branches to fit the main branch into the chipper chute. Ensure this is done before you start chipping. The C70 generally will draw the branches in and on no occasion do you need to put your hand inside the chipper chute.
- The discharge chute can be angled to disperse the chippings to where you want them to go. Attached to the discharge chute is a nyloc nut that can be loosened to adjust the angle of the chute. Once the desired angle is reached, re-tighten this nut and bolt. Only adjust the machine once the flywheel has stopped rotating and come to a complete stop and the spark plug lead has been removed.

## **IF THE MACHINE GETS BLOCKED**

During operation it is possible that a branch or pruning as a diameter higher than the working capacity of the machine is entered and blocks the rotation of the flywheel.

To remove the blockage, ensure that the machine has been turned off, the spark plug has been disconnected and that the flywheel has no power supply that will make it rotate when the material has been taken out. Once the blockage has been taken out the machine can be re-started.

## **AFTER USE**




When you have finished operation of the machine and have turned the engine off:

- Allow machine to cool down
- Check the machine over to see if there are any irregularities that could impede your next use
- Check fuel and oil levels for next use

# GENERAL MAINTENANCE

For the servicing of the machine it is strongly recommended, for safety and quality of the maintenance, for this to be conducted by authorised professionals from Truyard authorised dealers who know the machine.

## ADJUSTMENT OR REPLACEMENT OF THE CHIPPER BLADES

		<p>Disconnect the spark plug to ensure that the machine will not receive power whilst you are working on the flywheel</p>
		<p>Open the chipper chute using a 13mm spanner to gain access to the flywheel and the chipper blades.</p>
		<p>Using a 13mm socket, loosen the nut and bolt that connects the chipper blade to the flywheel.</p> <p><b>CAUTION – THE CHIPPER BLADE IS SHARP AND CAN CAUSE INJURY</b></p>

## ADJUSTING BELT TENSION



Remove the protective cover that sits over the belts with a 13mm socket.



Using a 17mm spanner, loosen the nuts that connect the engine to the frame of the machine. Once all four have been loosened, slide the engine on the rails to increase the belt tension. Retighten the nuts and ensure that the engine is secure.

**NOTE: WHEN ADJUSTING THE BELT, THE FLYWHEEL SHOULD TURN WITHOUT TURNING MOTOR. DO NOT OVERTIGHTEN.**

## TYRE PRESSURE

The maximum tyre pressure for the pneumatic tyres is 20psi. Over inflation of the tyre can cause injury.

## **STORAGE**

In the case that the C70 Chipper will not be used for an extended period, it is important to store the machine in a location that is sheltered from the weather to avoid damages to the machine.

The storage temperate recommended is between 0°C and 50°C.

Before this period in storage, it is recommended to:

- Properly clean the machine
- Carefully free the flywheel from any remains of chipped wood
- Ensure that the area in which the machine is to be stored is sheltered is a flat and compact surface
- Perform a check of the machine to detect possible damages or irregularities and to ensure that the safety labels are undamaged and clearly visible

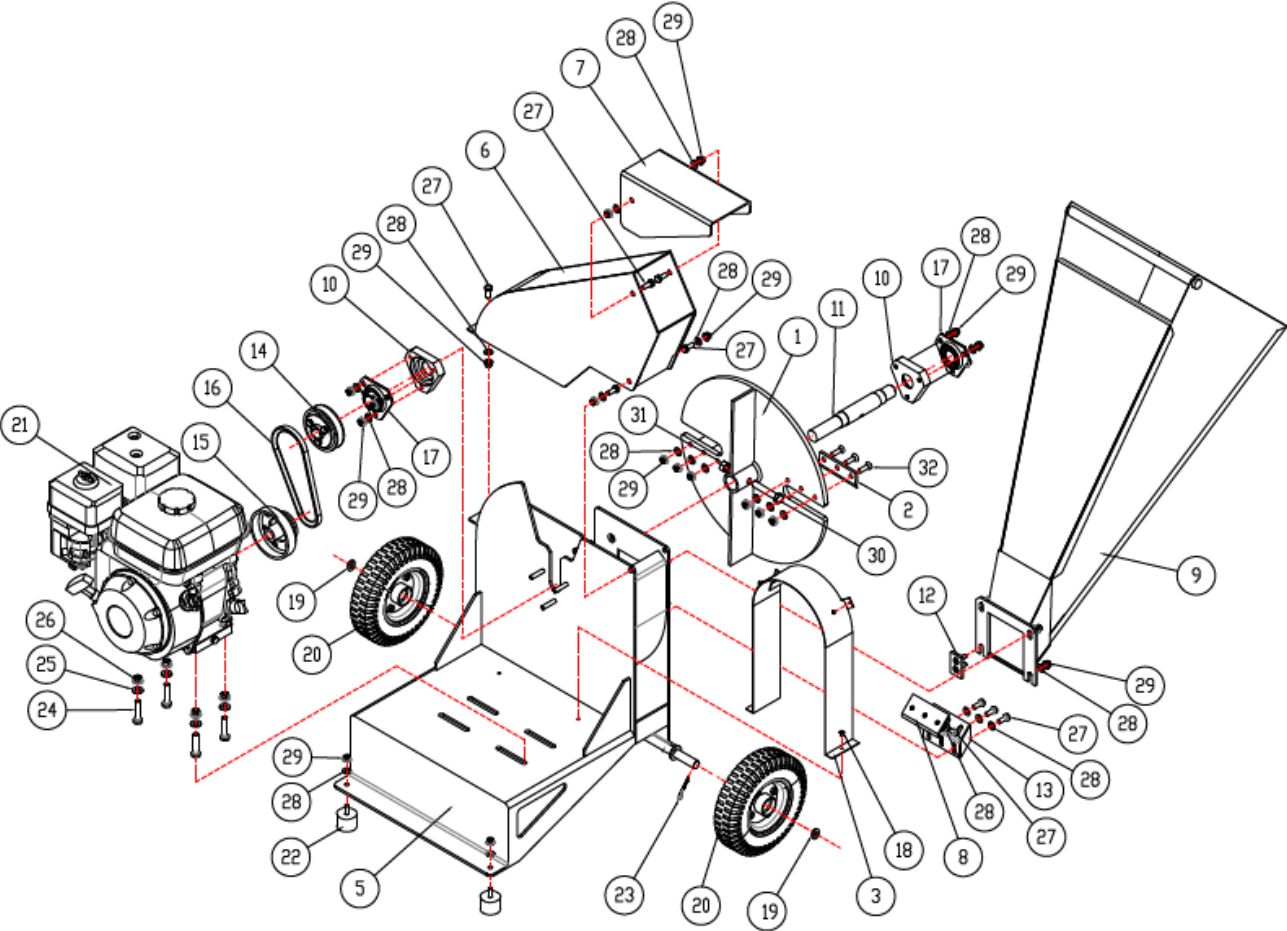
## **CLEANING**

Regularly clean the machine using only compressed air, blowing away wood dust and green was residue. For this operation ensure that you wear protective gloves and eyewear.





PARTS LIST



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1206501	Flywheel	1
2	1206514	Chipper Blade	2
3	1206503	Belt Guard	1
5	1206505	Body	1
6	1206506	Discharge	1
7	1206507	Discharge Cover	1
8	1206508	Anvil Blade	1
9	1206509	Hopper	1
10	1202043	Bearing Seal	2
11	1206511	Shaft	1
12	1206512	Side Anvil	1
13	1206513	Bracket	1
14	1503014	Engine Pulley	1
15	1901624	Clutch (Optional)	1
16	1901608	Belt A19	1
17	1901506	Bearing	2
18	1901404	Tech Screw	4
19	1503033	Spacer	2
20	1901011	Wheel	2
21	-	Engine	1
22	1901226	Rubber Stop	2
23	1901410	R-Clip	2
24	1901109	Bolt M10x40	4
25	1901310	Washer M10	4
26	1901210	Nut M10x1.5	4
27	1901101	Bolt M8x20	16
28	1901300	Washer M8 (18x1.2)	30
29	1901230	Nut M8x1.25	23
30	1901132	Bolt M12x60	1
31	1901211	Nut M12x1.75	1
32	1901108	Screw M8x30 Flat Skt	6

C70

**TruYARD**



# WARRANTY POLICY

Under the warranty your C70 is warranted for 2 years from the date of purchase against mechanical defects, faulty workmanship or material. 90 days for commercial use. This warranty covers only the replacement, repair or adjustment of any part which fails as a result of a fault in manufacture or assembly. Defective parts will be repaired or replaced without charge for labour or materials subject to the conditions detailed below.

## Warranty Exclusions, Limitations and Rights:

- 1) Any failure that results from accident, abuse or neglect is not covered by this warranty
- 2) Transport of the C70 to and from the manufacturer, their agents or dealers, to be paid for by the owner
- 3) Proof of purchase date must be provided prior to the commencement of the warranty work
- 4) Any failure of parts or material that is contributable to fair wear
- 5) Any indirect or consequential loss, damage, costs or expenses suffered by the consumer that may result either directly or indirectly from the failure or malfunction of the product
- 6) Any repairs carried out other than those by authorised Truyard agents or dealers cancel this warranty
- 7) Engine warranty is separate and is in accordance with the Engine manufacturers express warranty

# TROUBLESHOOTING

ISSUE	CAUSE	SOLUTION
Irregular Chipping	<ul style="list-style-type: none"><li>• Worn or damaged blades</li><li>• Anvil not adjusted</li><li>• Loose belts</li></ul>	<ul style="list-style-type: none"><li>• Change blades or rotate them around 180°</li><li>• Adjust to within 1-2mm of chipper blade</li><li>• Adjust the belts to the correct tension</li></ul>
Excessive noise	<ul style="list-style-type: none"><li>• Over tightened belts</li><li>• Bearing</li></ul>	<ul style="list-style-type: none"><li>• Loosen and inspect belt damage in case they need to be replaced</li><li>• Replace the bearing</li></ul>
Motor starts but chipper doesn't	<ul style="list-style-type: none"><li>• Blockage in the flywheel</li></ul>	<ul style="list-style-type: none"><li>• Remove the spark plug and make sure the flywheel is at a complete stop. Open the discharge chute and take out the blockage carefully. Test spinning the flywheel a full 360° to ensure that there aren't more blockages. Be careful of the blades.</li></ul>
Note: Truyard has available spare parts for the machine if a replacement is necessary		

## MACHINE MAINTENANCE SCHEDULE

Bolt tightening check	Inspect every 5 hours of use
Replacement of the chipper blades	Inspect blades for sharpness, burs and chips every 10 hours of use. If the blades are damaged replaced, if blunt rotate 180°
Belt adjustment or replacement	Inspect belts every 10 hours of use looking for cracks and tightness. If cracks appear replace the belts
Bearings	Inspect bearing every 10 hours of use for movement. If movement, replace
Engine oil and other respective parts	Consult the manufacturers manual for these specifications

## NOTES

[illegible]