



MOWER MASTER

LIFESTYLE EQUIPMENT

GFM-120 Topper Mower

Operator's Manual

**Assembled in New Zealand and supplied by
Mower Master Ltd**

Table of Contents

General Warnings and Rules	3
Controls and Features Identification.....	5
Assembly Instructions	6, 7, 8
Operation Instructions	9, 10, 11, 12, 13
Maintenance and Storage	14
Specification	15
Parts Drawing & Parts List.....	16, 17, 18, 19, 20, 21, 22

Property of
www.mowermaster.co.nz
Mower Master Ltd



GENERAL WARNINGS



READ and UNDERSTAND this manual completely before using the Heavy Duty Mulch Mower.

Operator must read and understand all safety and warning information, operating instructions, maintenance and storage instructions before operating this equipment. Failure to properly operate and maintain the mower could result in serious injury to the operator or bystanders.

Operation Warnings

- Do not at any time carry passengers, sit or stand on the mower.
- Do not allow children to play on, stand upon or climb on the mower.
- Always inspect the mower before using to assure it is in good working condition.
- Replace or repair damaged or worn parts immediately.
- Always check and tighten hardware and assembled parts before operation.
- Always keep hands and feet clear from discharge area and blades.
- Keep safety devices, guards and deflectors in place when operating.
- Avoid large holes and ditches when towing and operating the equipment.
- Always operate the mower on clear and level ground.
- Always operate at reduce speed in rough terrain, along creeks, ditches and on hillsides.
- Do not operate close to creeks, ditches and public highways.
- Only operate with recommended vehicles (Lawn/Garden Tractors and ATVs).
- To avoid personal injury and/or equipment damage **DO NOT EXCEED 10 KPH.**
- Always refer to the vehicle owner's manual for proper towing.
- Always secure and lock the mower to the tow vehicle before operating.

Crush and Cut Hazards

- Always keep hands and feet clear from blades and moving parts while operating the equipment.
- Always clear and keep work area clean and free of debris when operating.
- Always wear safety gear, eye & ear protection, gloves and work boots when operating the mower.

** WARNING**

The warnings, cautions, and instructions outlined in this instruction manual cannot cover all possible conditions or situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product and must be supplied by the operator.

Hazard Signal Word Definitions

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

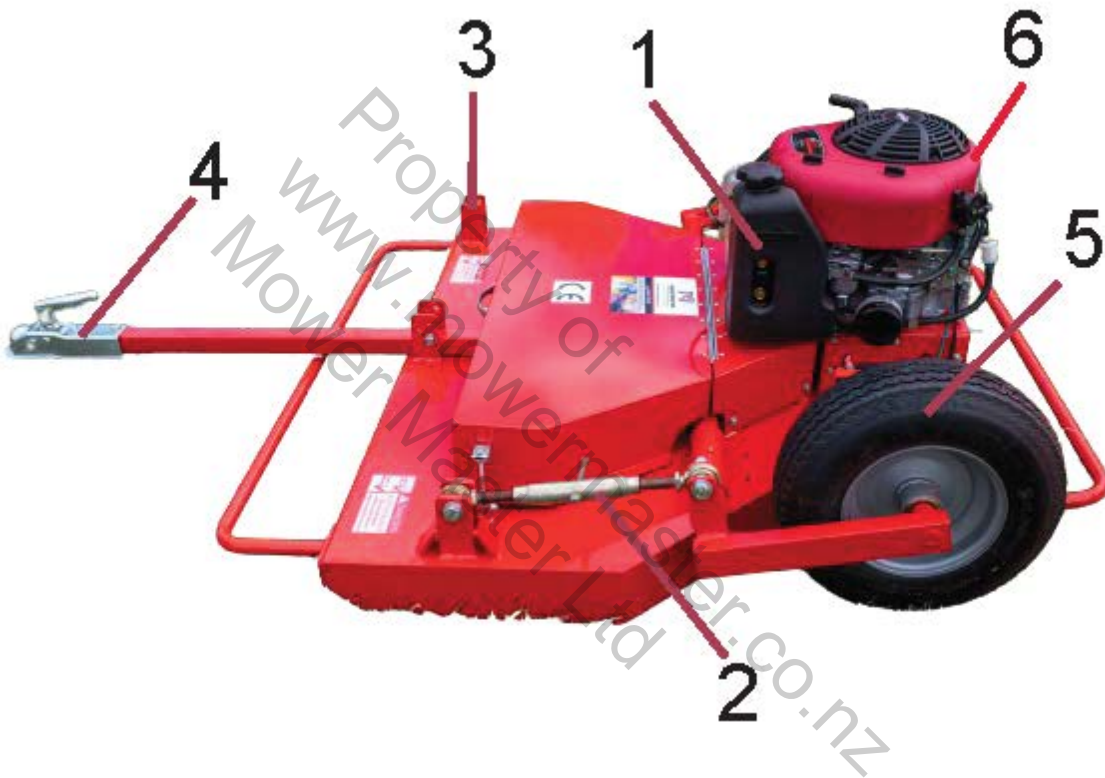
ABOUT YOUR HEAVY DUTY TOPPING MOWER

This mulch mower is designed to get the job done right and produce a quality finish cut. It features a 117cm cutting width, electric start and is powered by a Briggs & Stratton 11.5hp engine. Your Topper mower should be operated behind lawn/garden tractors, ATV, golf cart or other approved vehicles. Never exceed maximum operating speed of 10 KPH.

Technical specifications on the mower are provided in the "Specifications" section of this manual.

Controls and Features Identification

Read this owner's manual before operating the equipment. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.



- 1) **Fuel Tank** – Holds 4L.
- 2) **Blade Handle Adjustment** – Adjust blade height.
- 3) **Offset Bracket** – Allows mower to be offset.
- 4) **Hitch Coupler** – Attaches to towing vehicle.
- 5) **Tires** - Maximum rated 206 KPa / 30 PSI.
- 6) **Engine** – 11.5hp Briggs & Stratton vertical air cooled.



CAUTION

Read and follow all instructions for assembly and operation. Failure to properly assemble this equipment could result in serious injury to the user or bystanders, or cause equipment damage.

HEAVY DUTY TOPPER MOWER ASSEMBLY

Set the shipping crate on a solid flat surface and carefully remove the lid. Use two people and take all parts out of the shipping crate and inspect the components to ensure there are no missing pieces before starting to assemble the mower follow steps 1 through 5.

TOOLS REQUIRED

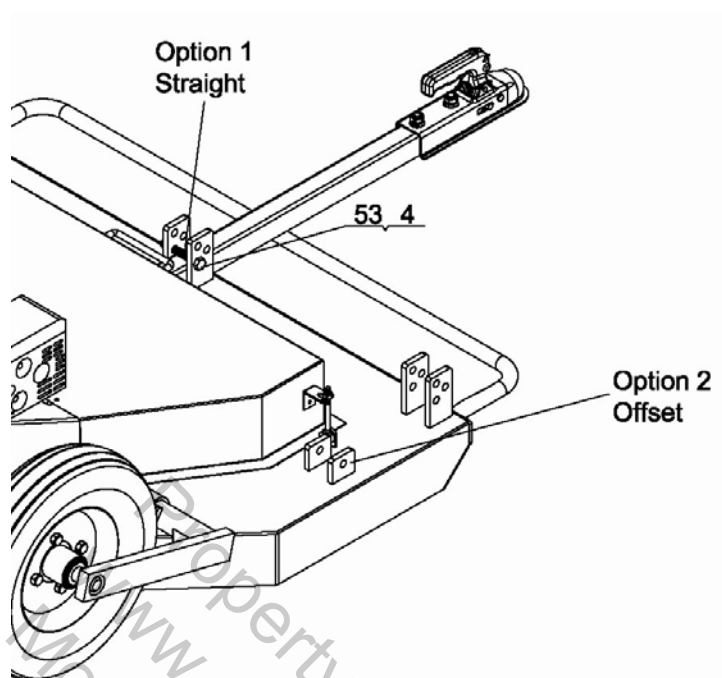
- Rubber or Wooden Hammer
- 13mm, 14mm, 17mm, 19mm Wrenches

Assembly Instructions

Property of
www.mowermaster.co.nz
Mower Master Ltd

STEP 1: Attach Tow Bar to Mower Base

1. Attach tow bar to the mower base using two M12x80 hex bolts (#26) and M12 lock nuts (#27).



Note: Two locations for attaching the tow bar depending on application.

STEP 2: CHECK Engine Oil

1. Make sure the mower is on a level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Refer to the separate owner's engine manual for the amount of engine oil needed; replace oil fill cap/dipstick.
4. Check engine oil level daily and add as needed.

NOTE: During the break-in period check the engine oil level often.



CAUTION

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the mower engine as a result of failure to follow these instructions will void your warranty.

STEP 3: Add Gasoline to Fuel Tank

1. Use only clean, fresh, regular unleaded fuel with a minimum 85 octane rating.
2. DO NOT mix oil with fuel.
3. Remove the fuel cap and slowly add fuel to the tank. DO NOT overfill allow approximately .64cm of space for fuel expansion.
4. Screw on the fuel cap and wipe away any spilled fuel.



DANGER

Mower engine exhaust contains carbon monoxide, a colorless, odorless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

Operate mower outdoors only in a well ventilated area.

DO NOT operate the mower inside any building, enclosure or compartment.

DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

DANGER CARBON MONOXIDE, using a mower indoors CAN KILL YOU IN MINUTES.



CAUTION

Fuel and fuel vapors are highly flammable and extremely explosive.

Fire or explosion can cause severe burns or death.

Unintentional startup can result in entanglement, traumatic amputation or laceration.

Only use regular unleaded gasoline with a minimum 85 octane rating.

DO NOT mix oil and gasoline together.

Fill tank approximately .64cm below the top of the tank to allow for fuel expansion.

DO NOT fill fuel tank indoors or when the engine is running or hot.

DO NOT light cigarettes or smoke when filling the fuel tank.

Operation Instructions

WARNING

Before operating or using the mower, review the instructions below and all safety information. Failure to follow these instructions may result in property damage or injury to the operator or bystanders.

USING YOUR TOPPER MOWER

1. **ONLY** adults familiar with these instructions should operate this equipment. Never allow children to operate this equipment.
2. **NEVER** use your mower with other people or children in close proximity.
3. **ONLY** tow the mower with recommended vehicles (Lawn/Garden Tractors and ATVs).
4. **KEEP** hands and feet clear of rotating blades, pulleys, belts and discharge openings when operating the mower.
5. **DO NOT** operate mower with barefoot or wearing open toe sandals always wear a solid shoe with good traction.
6. **DO NOT** operate equipment while under the influence of alcohol or drugs.
7. **ALWAYS** disconnect the spark plug wire to prevent accidental starting of the engine when setting up, transporting, adjusting or making repairs.
8. **NEVER** make any adjustments to your mower while the engine is running.
9. **ALWAYS** turn the engine off when not mowing or when the equipment is unattended.
10. **ALWAYS** check all hardware to make sure they are tight after the first hour of running to ensure trouble free service.
11. **ALWAYS** keep safety devices, guards and deflectors in place when operating.
12. **NEVER** mow in reverse. Always look down and behind before and while backing up the mower.
13. **ALWAYS** stop and inspect the equipment if you strike an object. Repair if necessary before operating again.
14. **ALWAYS** clear work area of objects (rocks, toys, wire & etc) before operating the mower.
15. **DO NOT** operate mower if it has been dropped or damaged or if the mower vibrates excessively. Excessive vibration is an indication of damage.
16. **ALWAYS** avoid sudden turns, changes in direction and speed.
17. **DO NOT** exceed the maximum operating speed of 10 KPH.
18. **ALWAYS** operate mower engine at full throttle for best cutting results and maximum material discharge.
19. **ALWAYS** allow wet grass to dry. Wet grass will clump and collect under the mowing deck.
20. **ALWAYS** operate at slower speeds in high or dense grass areas. Some areas may need to be mowed twice.
21. Creating a manicured lawn never cut more than 1/3 of the grass height in one cutting.

WARNING

Tragic accidents may occur if the operator is not alert to the presence of children. Children are often attracted to mowing activities. Never assume that children will remain where you saw them last.

When operating the mower it produces foreign objects that can be thrown into the eyes. Always wear certified safety glasses before operating the equipment.

The operation of mowing produces sound waves that may damage the human ear. Ear protection is highly recommended when operating this equipment.

Operation Instructions

Attaching Topper Mower to Tow Vehicle

1. Make sure blades are not blocked with grass or other matter.
2. Check all electrical connections for build up or debris before operating.
3. Check the tires to make sure they have the proper amount of air.



TIRE WARNING

DO NOT over inflate tires or use if worn or will not hold air. Serious injury can result if tires explode while operating the mower.
DO NOT exceed the maximum operating speed 10 KPH.

4. Check engine oil level before starting.
5. Determine which towing option is needed, option 1 (straight) or option 2 (offset) works best for your vehicle.

NOTE: Use option 2 to offset the mower to opposite side of the tow vehicle discharge (if any). This prevents the tow vehicle from throwing grass into topper mower engine.

6. Adjust blade height (See blade height adjustment section).
7. Refer to the vehicle owner's manual for proper towing.
8. Back vehicle up to the desired towing position.
9. Attach the tow hitch to the vehicle. Always secure and lock the mower to the vehicle before operating.



TOWING WARNING

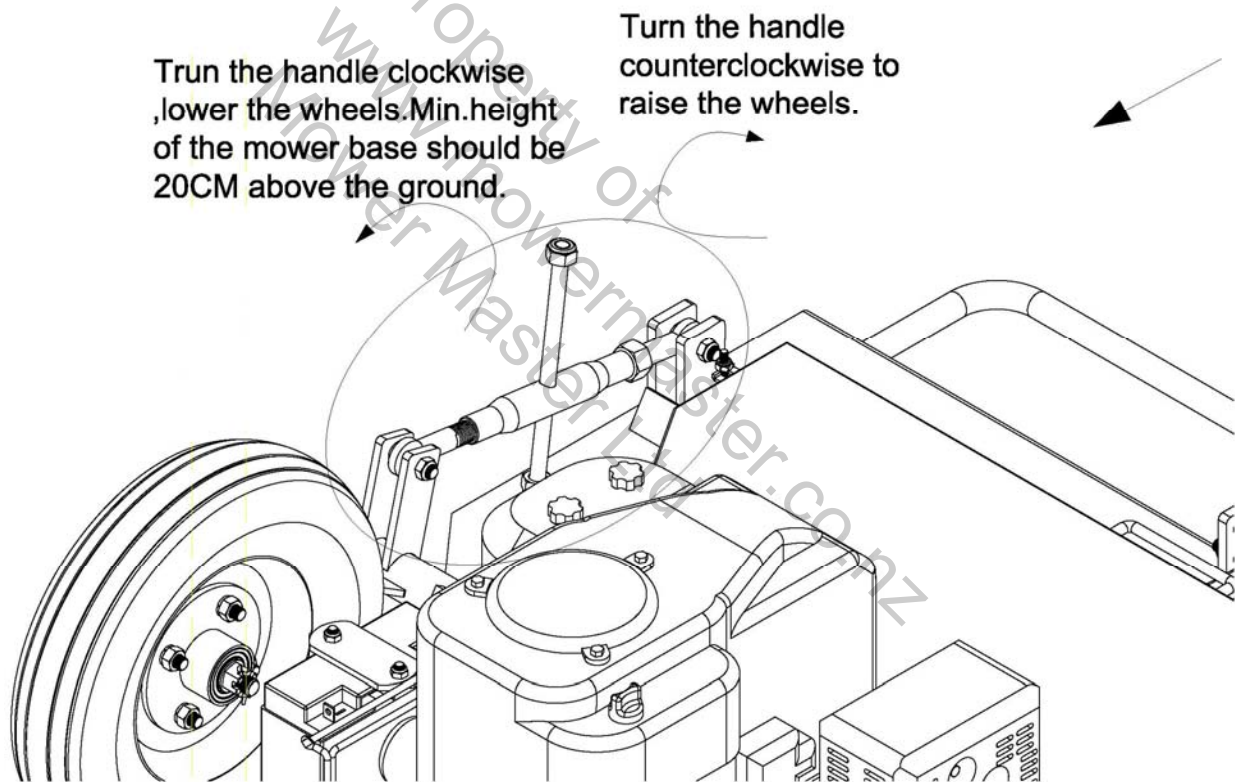
Serious injury or death can occur if towing safety rules are not followed.
Always secure and lock the mower to the vehicle hitch before moving.
Drive safely. Be aware of the added length of the mower.
Never exceed the maximum operating speed of 10 KPH.
Never ride or transport cargo on the mower.
Turn off the vehicle and mower engine before leaving the mower unattended.

Operation Instructions

Blade Height Adjustment

1. Mower engine needs to be turned off before adjusting the blade height.
2. Blade height is adjusted by turning the handle clockwise to lower the blades and counterclockwise to raise the blades.
3. Make sure the mower deck is kept horizontal at all times by adjusting the draw bar.

NOTE: *The draw bar can be offset.*



⚠ WARNING

Never adjust the height of the blades while the engine is running.

Blades will cut through skin and break bones. Keep hands and feet away from cutting blades and discharge areas.

Serious accidents can happen when other people are allowed inside the work area. Keep everyone else out of the work area while operating the mower.

Operation Instructions

Start the Engine

1. Make sure the tow vehicle park brake is set and the mower is level and the blades are set to the desired height.
2. Insert the key turn the fuel on by turning the key to the first position.
3. Set the engine throttle to the "RUN" position.
4. turn the key all the way to the right to start.



5. **Cold Engine Only** - Push the throttle lever down to operate the choke.
6. If motor does not start move the throttle lever to $\frac{1}{4}$ and try again.
7. Always set the throttle to full power for mowing/cutting.
8. Allow the engine to run for a few minutes before starting to use the mower.



CAUTION

The "ON" switch cannot be in START position for more than 5 seconds.
Always turn the fuel valve off once the engine is stopped.
Always ensure the ON/OFF switch is in the OFF position after using the mower.

Operation Instructions

Starting to Mow

1. Double check that the tow vehicle and mower are securely attached.
2. Always wear safety gear, eye & ear protection, gloves and work boots when operating.
3. Make sure the engine throttle is set at full throttle for best mowing/cutting performance.
4. Carefully mount vehicle and start mowing at a slow travel speed not to exceed 10 KPH.



CAUTION

Maximum mowing/cutting speed is 10 KPH.

Maximum towing/travel speed is 15 KPH (mower engine needs to be turned off).

Stop Mowing

1. Bring tow vehicle to a complete stop, shut off vehicle engine, turn fuel valve to the off position and set parking brake.
2. Shut mower engine off by manually turning toggle switch and/or key switch to the "OFF" position.
3. Always remember to remove keys to avoid irresponsible usage.

Transporting Topper Mower

1. Make sure the engine is turned off.
2. Raise blades by turning the handle counterclockwise.
3. When transporting mower remove spark plug wire and put it in a place where it cannot have contact with the spark plug.

Note: 1. After working 10h, pls increase grease 15ml.



2. Every 8h of working, pls clean the grass off the blade.



Maintenance and Storage



WARNING

Improper maintenance and storage of the mower may void your warranty.

GENERAL MAINTENANCE

- Before performing maintenance, the mower engine must be turned off.
- After performing any maintenance, make sure all guards, shields and safety features are put back in place before operating the mower.
- Periodically check all fasteners for tightness.
- Grease pulley bearing assembly – Don't over grease 1 pump every 15-20 running hours.
- Annually clean and lightly lubricate all moving parts or when needed.
- Use a glossy enamel spray paint to touch up scratched or worn painted metal surfaces.
- Never use a high pressure wash or hose to clean the engine when it is running or hot.

Engine & Cutter Belt Adjustment

1. The **ENGINE BELT** must be kept at the correct tension at all times.
2. Loosen the engine mounting bolts and move the engine back until the belts are tight and then re-tighten the engine mounting bolts.
1. The **CUTTER BELT** has its own spring loaded pulley and does not require any adjustment.

NOTE: Belt Sizes – Engine / B27 and Cutter / B84.

Cutter Blade Replacement

1. Refer to the BASE FRAME parts drawing & parts list.
2. Incline the mower to access the blades by lifting drawbar.
3. Put supports under the mower to avoid the mower falling and causing injury.
4. Remove the 2 bolts (#28), center bolts (#35) and cutting blade.
5. Reverse the procedure to install the blades.

Wheel Removal

1. Lower wheels completely by turning the blade handle clockwise.
2. Remove blade height control bolt on the turnbuckle (Engine end) and lift wheel axle.
3. Remove Dust Cap, cotter pin and nut and slide wheel off.

Refer to the Engine Owner's Manual for engine maintenance.

IMPORTANT:

If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operations.

STORAGE

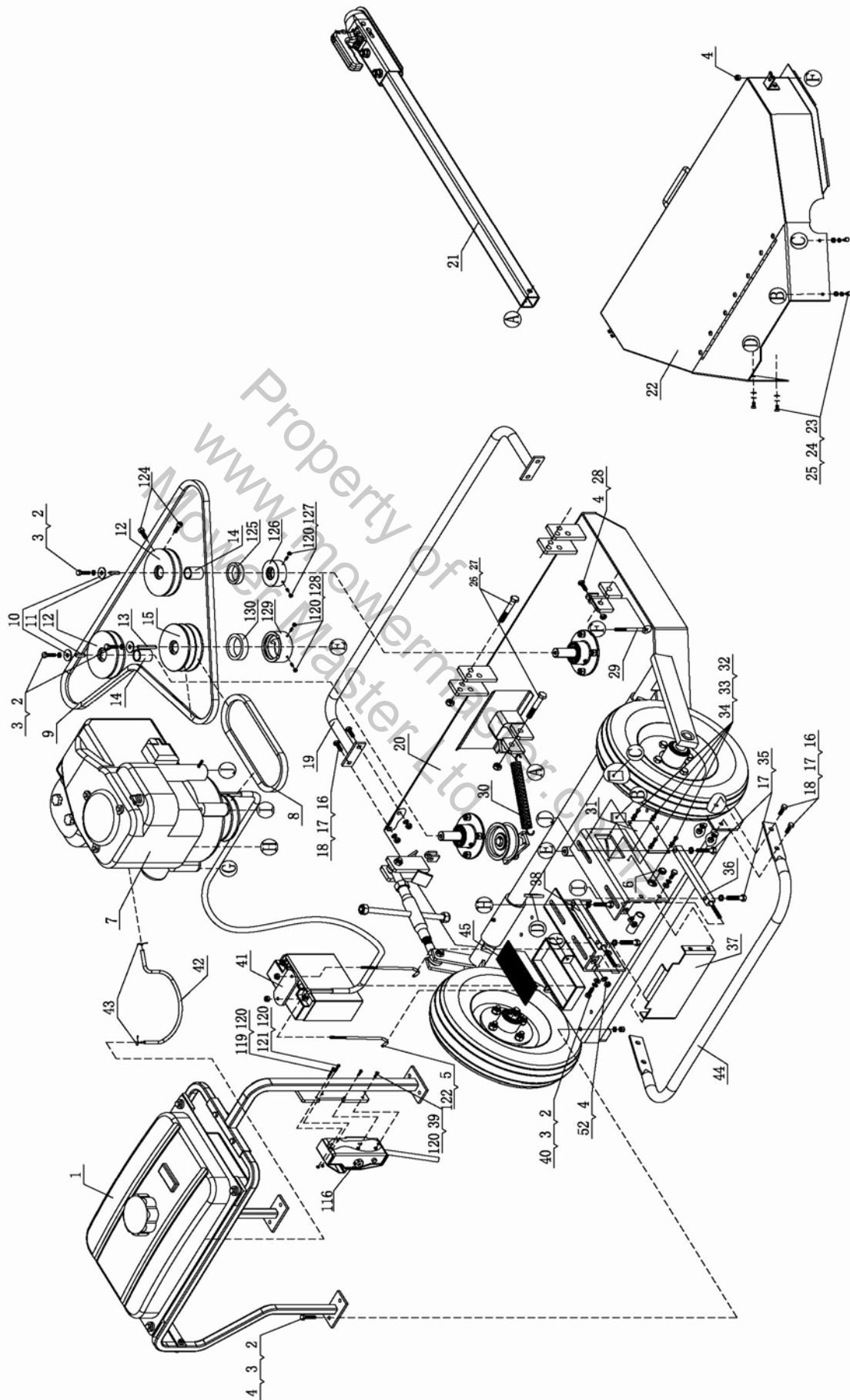
- Before storing make sure the mower is clean and dry for years of trouble free service.
- The engine and the fuel valve need to be in the off position.
- Lightly lubricate all mower surfaces and moving parts to prevent rust.
- Store indoors or protected area during severe weather and winter months.

Specifications

Engine (Electric Start).....	11.5Hp
Shaft Output	Vertical
Engine RPM	3600
Battery	12V DC/ 18AH
Fuel Capacity	4L
Fuel Tank Size.....	4L
Hitch Coupler.....	50mm Cast Steel
Tire Size	4.80/4.00-8
Cutting Width.....	1200cm
Cutting Height.....	25mm – 300mm
Max. Mowing/Cutting Speed.....	10 KPH
Max. Towing/Travel Speed	15 KPH
Net Weight.....	183kg

NOTE: For Engine Details Refer to the Engine Owner's Manual.

Parts Drawing & Parts List

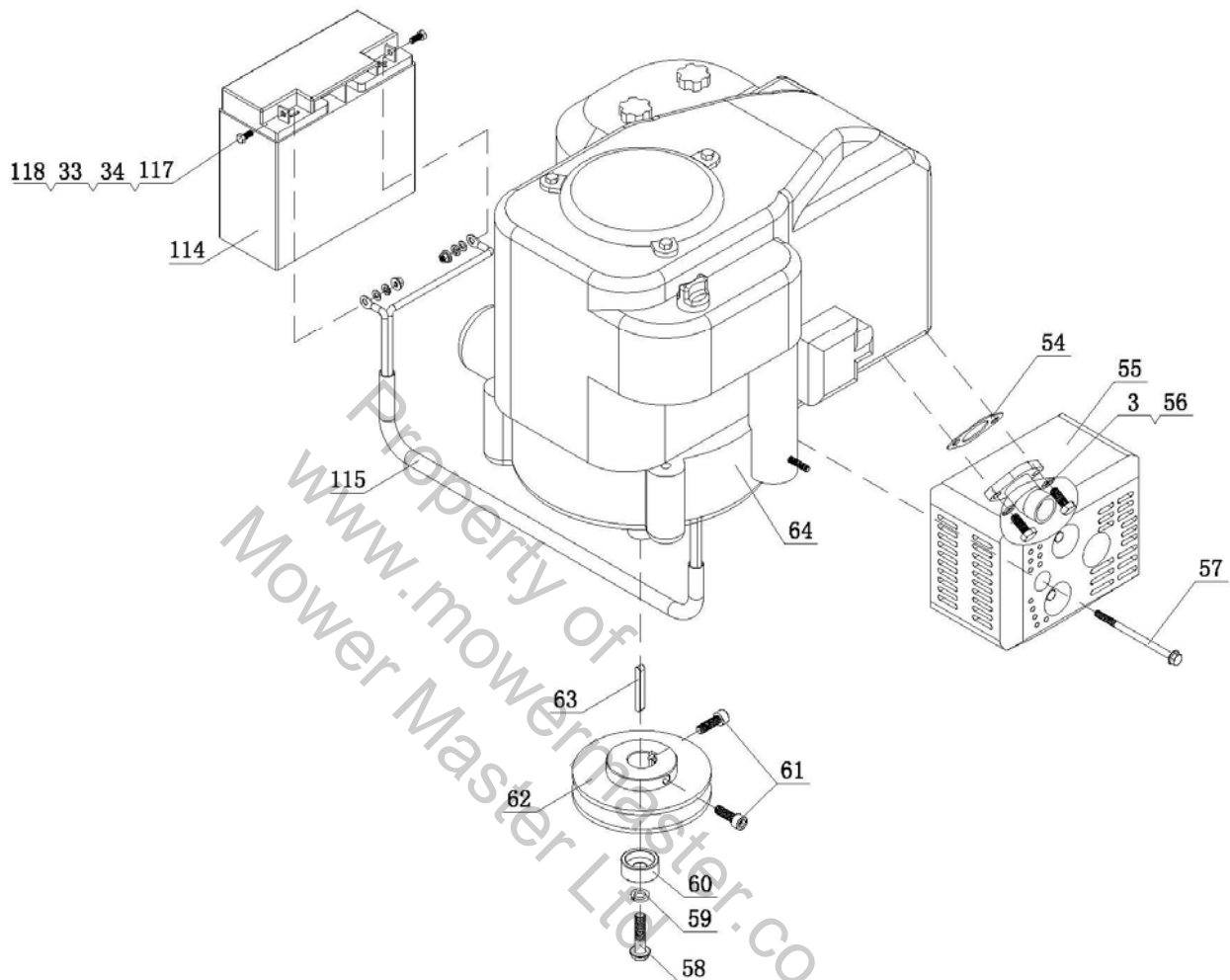


Parts Drawing & Parts List

Part #	Description	QTY	Part #	Description	QTY
1	Oil Tank Assembly	1	30	Spring	1
2	Hex Bolt M8x25	13	31	Side Plate	2
3	Lock Washer Ø8	13	32	Hex Bolt M5x12	8
4	Nylon Lock Nut M8	12	33	Lock Washer Ø5	8
5	Battery Hook	2	34	Flat Washer Ø5	8
6	Rubber Bushing	2	35	Hex Bolt M10x45	4
7	Engine	1	36	Adjustable Plate B	1
8	SPB686 Angle Belt	1	37	Back Plate	1
9	SPB2182 Angel Belt	1	38	Adjustable Plate A	1
10	Belt Pulley Washer A	3	39	Hex Bolt M5x20	2
11	Belt Pulley Flat Key A	2	40	Flat Washer Ø8	2
12	Blade Belt Pulley A	2	41	Battery Press Plate	1
13	Belt Pulley Flat Key B	1	42	Hydraulic Hose (350mm)	1
14	Blade Retainer A	2	43	Hose Clamp	2
15	Blade Belt Pulley B	1	44	Safety Rod Back	1
16	Hex Bolt M10x25 (8.8)	8	45	Rubber Plate for Battery	1
17	Lock Washer Ø10	12	52	Flat Washer Ø8	2
18	Nylon Lock Nut M10	8	116	Electric Start Switch	1
19	Safety Rod Front	1	119	Hex Bolt M5x35	1
20	Base Frame	1	120	Nylon lock Nut M5	10
21	Tow Bar Assembly	1	121	Hex Bolt M5x25	1
22	Protect Cover	1	122	Nylon lock Nut M6	2
23	Hex Bolt M6x16 (8.8)	4	124	Screw M8x15	6
24	Lock Washer Ø6	4	125	Driven Pulley Felt	2
25	Flat Washer Ø6	4	126	Driven Pulley Seal	2
26	Hex Bolt M12x80 (8.8)	2	127	Screw M5x12	4
27	Nylon Lock Nut M12	2	128	Screw M5x20	2
28	Hex Bolt M8x30 (8.8)	2	129	Active Pulley Seal	1
29	Hook	2	130	Active Pulley Felt	1

Parts Drawing & Parts List

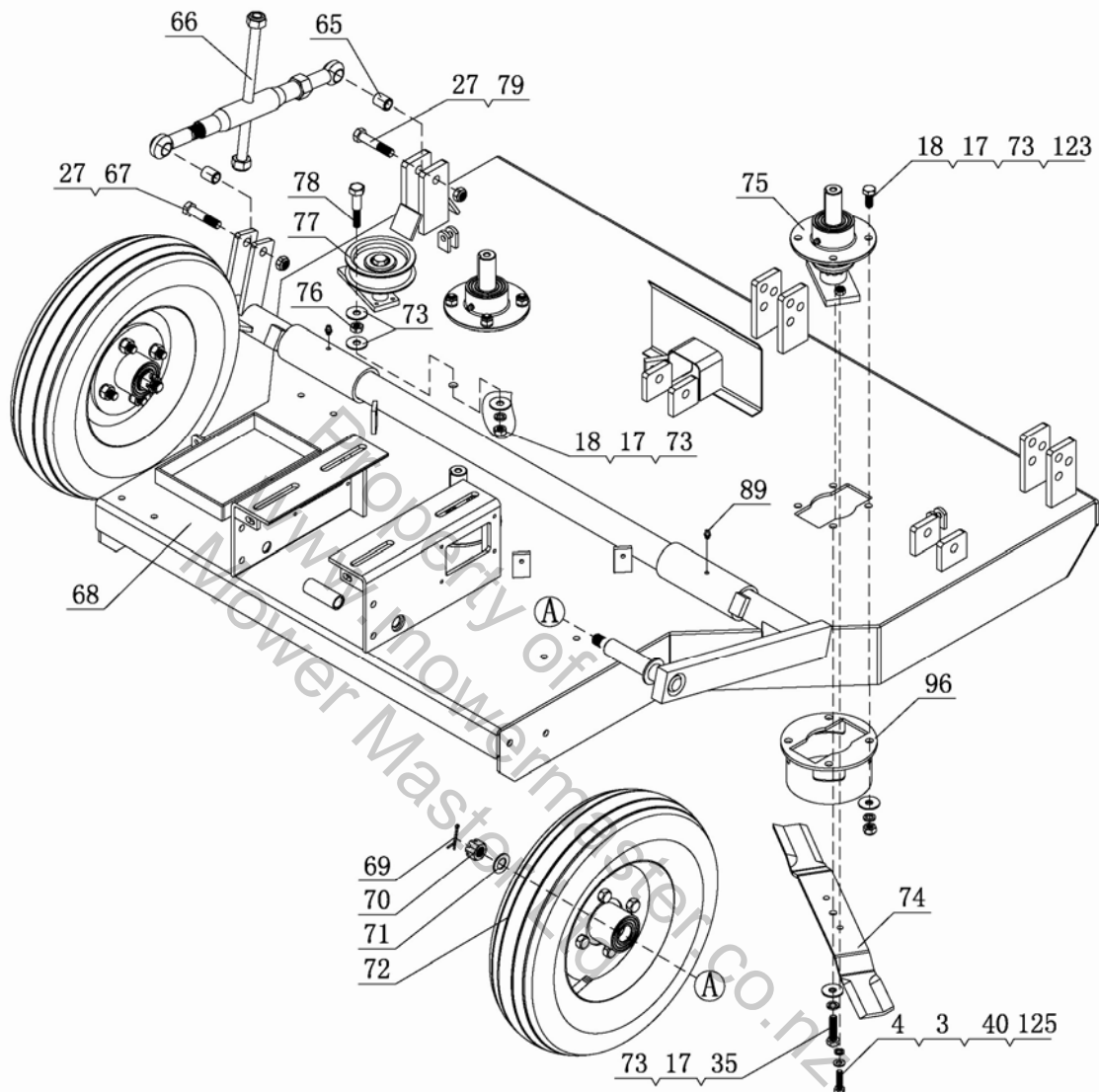
ENGINE



Part #	Description	QTY	Part #	Description	QTY
3	Lock Washer Ø8	2	60	Engine Bushing	1
33	Lock Washer Ø5	2	61	Inner Hex Screw M8x25	2
34	Flat Washer Ø5	2	62	Blade Belt Pulley C	1
54	Washer	1	63	Belt Pulley Flat Key C	1
55	Muffler	1	64	Engine 16HP	1
56	Hex Bolt 5/16"x1"	2	114	12V Battery	1
57	Flange Bolt M6x120	1	115	Wire	1
58	Flange Bolt 7/16x40	1	117	Hex Bolt M5x16	2
59	Lock Washer Ø12	1	118	Flange Nut M5	2

Parts Drawing & Parts List

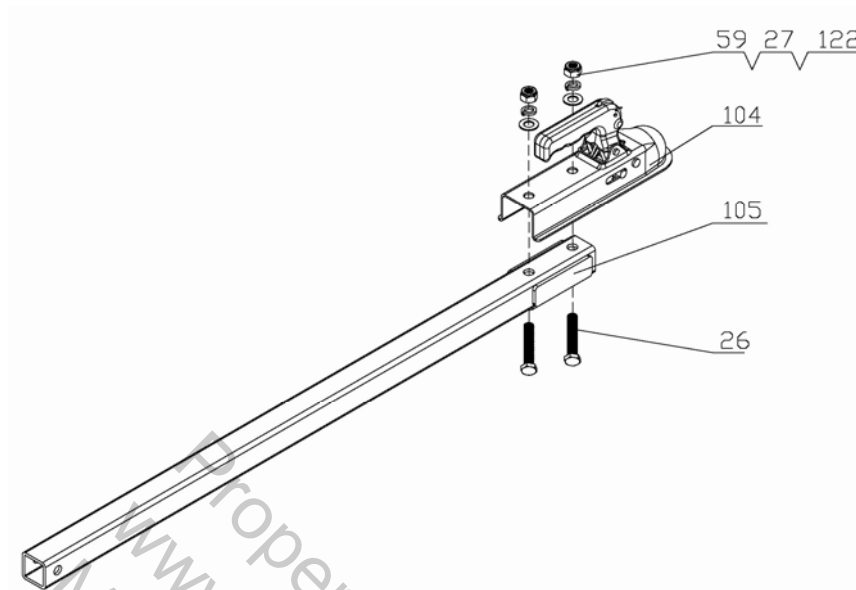
BASE FRAME



Part #	Description	QTY	Part #	Description	QTY
3	Lock Washer Ø8	6	70	Slotted Nut M16X1.5	2
4	Nylon Lock Nut M8	6	71	Flat Washer Ø16	2
17	Lock Washer Ø10	16	72	Wheel	2
18	Nylon Lock Nut M10	13	73	Big Flat Washer Ø10	18
27	Nylon Lock Nut M12	2	74	Blade	3
28	Hex Bolt M8x30	6	75	Blade Base	3
35	Hex Bolt M10x45	3	76	Hex Nut M10	1
40	Flat Washer Ø8	6	77	Tension Pulley	1
65	Bushing	2	78	Connect Bolt	1
66	Adjustable Handle	1	79	Hex Bolt M12x60	1
67	Hex Bolt M12x55	1	89	Oil Cup M6	2
68	Base Frame	1	96	Big Guardrail Circle	3
69	Cotter Pin Ø4x40	2	123	Hex Bolt M10x30	12

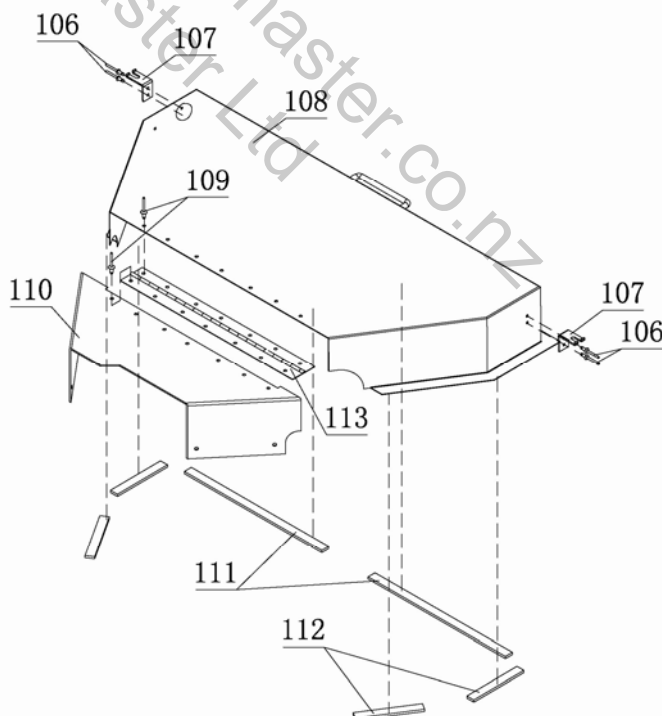
Parts Drawing & Parts List

TOW BAR



Part #	Description	QTY	Part #	Description	QTY
26	Hex Bolt M12x60	2	104	Cast Coupler	1
27	Nylon Lock Nut M12	2	105	Tow Bar	1
59	Lock Washer Ø12	2	122	Flat Washer Ø12	2

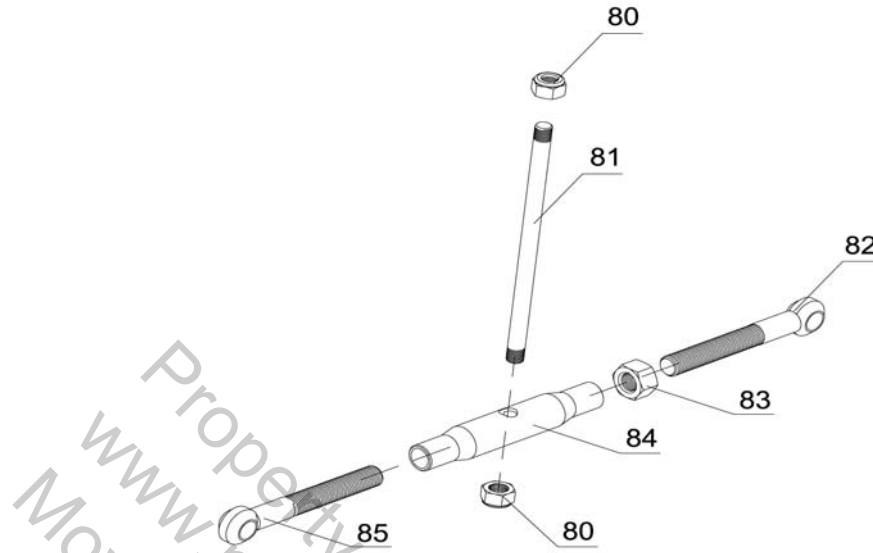
PROTECT COVER



Part #	Description	QTY	Part #	Description	QTY
106	Rivet Ø5x12	4	110	Belt Pulley Cover	1
107	Turn Clip	2	111	Shock Pad Long	2
108	Protect Cover	1	112	Shock Pad Short	4
109	Rivet Ø16x12	14	113	Hinge	1

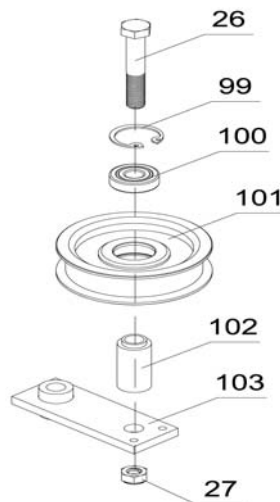
Parts Drawing & Parts List

ADJUSTABLE BLADE HANDLE



Part #	Description	QTY	Part #	Description	QTY
80	Nylon Lock Nut M14	2	83	Hex Nut M20	1
81	Adjustable Handle	1	84	Adjustable Rod (middle)	1
82	Adjustable Rod A	1	85	Adjustable Rod B	1

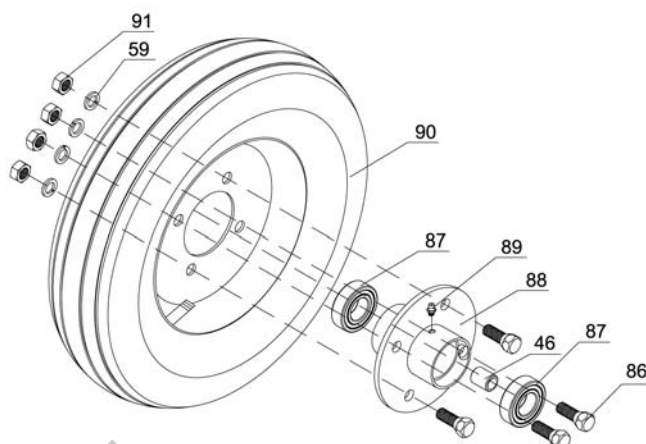
TENSION BELT PULLEY



Part #	Description	QTY	Part #	Description	QTY
26	Hex Bolt M12x80	1	101	Tension Pulley	1
27	Nylon Lock Nut M12	1	102	Support Rod A	1
99	Spring Retainer A Ø32	1	103	Support Rod B	1
100	6201 Deep Hook Ball Bearing	1			

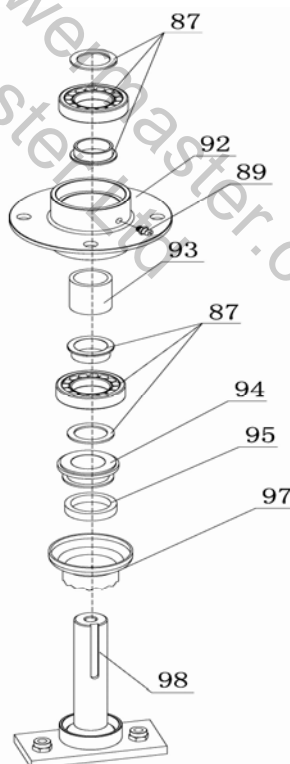
Parts Drawing & Parts List

WHEEL



Part #	Description	QTY	Part #	Description	QTY
46	Middle Bushing	1	88	Flange Ring	1
59	Lock Washer Ø12	4	89	Oil Cup M6	1
86	Tapered Hex Bolt	4	90	Wheel	1
87	0205 Deep Hook Ball Bearing	2	91	Hex Nut M12	4

BLADE BASE



Part #	Description	QTY	Part #	Description	QTY
87	Roller Bearing	2	94	Bearing Retainer	1
89	Oil Cup M6	1	95	Felt Ø30xØ39	1
92	Flange Base	1	97	Dust Cover	1
93	Bearing Retainer A	1	98	Blade Base	1