MF14 / MF16 WALK-BEHIND

CONCRETE FLOOR SAW

OWNER'S MANUAL AND PARTS LIST

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CONTENTS

Ⅰ RULES FOR SAFE OPERATION

WARNING:

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating these Floor Saws:

GENERAL SAFETY

- **DO NOT** operate or service this equipment before reading the entire manual.
- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate this equipment under the influence or drugs or alcohol.
- **NEVER** use accessories or attachments, which are not recommended by our company for this equipment. Damage to the equipment and/or injury to user may result.
- The manufacturer does not assume responsibility for any accident due to equipment modifications.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- **ALWAYS** check the machine for loosened threads or bolts before starting.
- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or saw.
- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with **hot** components can cause serous bums.
- The engine section of this saw requires an adequate free flow of cooling air. **NEVER** operate the saw in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the saw or engine and may cause injury to people. Remember the saw's engine gives off **DEADLY** carbon monoxide gas.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with flammable liquids. When refueling, stop the engine and allow it to cool. **DO NOT** smoke around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.
- **NEVER** operate the saw in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.
- Topping-off to the ***fuel*** filler port is dangerous, as it tends to spill fuel.

- **NEVER** use fuel as a cleaning agent.
- **ALWAYS** read, understand, and follow procedures in operator's Manual before attempting to operate equipment.
- **ALWAYS** be sure to operator is familiar with proper safety precautions and operating techniques before using the saw.
- Stop the engine when leaving the saw unattended.
- Block the unit when leaving or when using on a slope.
- Maintain this equipment in a safe operating condition at all times.
- **ALWAYS** stop the engine before serving, adding fuel and oil.
- **NEVER** run engine without air filter. Severe engine damage may occur.
- **ALWAYS** service air cleaner frequently to prevent carburetor malfunction.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **NEVER** operate this cutter in areas that contain combustible material or fumes. Fire and/or explosions may result from errant sparks from the equipment.

WARNING:

- **DO NOT** operate this equipment unless all guards and safety devices are attached and in place.
- Caution must be exercised while servicing this equipment. Rotating and moving parts can cause injury if contacted.
- Keep all inexperienced and unauthorized people away from the equipment at all times.
- Unauthorized equipment modifications will void all warranties.

DIAMOND BLADE SAFETY

- Use appropriate steel centered diamond blades manufactured for use on Floor Saws.
- **ALWAYS** inspect diamond blades before each use. The blade should exhibit no cracks, dings, or flaws in the steel centered core and/or rim. Center (arbor) hole must be undamaged and true.
- Examine blade flanges for damage, excessive wear and cleanliness before mounting blade. Blade should fit snugly on the shaft and against the inside/outside blade flanges.
- Ensure that the blade is marked with an operating speed greater than the blade shaft speed of the saw.
- Only cut the material that is specified by the diamond blade. Read the specifications of the diamond blade to ensure the proper tool has been matched to the material being cut.
- ALWAYS keep blade guards in place. Exposure of the diamond blade must not exceed 180 degrees.
- Ensure that the diamond blade does not come into contact with ground or surface during transportation. **DO NOT** drop the diamond blade on ground or surface.
- The engine governor is designed to permit maximum engine speed in a no-load condition. Speeds that exceed this limit may cause the diamond blade to exceed the maximum safe allowable speed.
- Ensure that the blade is mounted for proper operating direction.

FLOOR SAW TRANSPORTATION SAFETY

- Use the lifting bail and appropriate lifting equipment to ensure the safe movement of the saw.
- **DO NOT** use the handle bars and/or front pointer as lifting points.
- **NEVER** tow the saw behind a vehicle.
- Ensure that both pointer bars are positioned appropriately to minimize their exposure during transportation.
- Safeguard against extreme saw attitudes relative to level. Engines tipped to extreme angles may cause oil to gravitate into the cylinder head making the engine difficult to start.
- **NEVER** transport the saw with the blade mounted.

EMERGENCIES

- **ALWAYS** know the location of the nearest fire extinguisher and first aid kit. Know the location of the nearest telephone. Also know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.

MAINTENANCE SAFETY

- **NEVER** lubricate components or attempt service on a running machine.
- **ALWAYS** allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in running condition.
- Fix damage to the machine immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

Ⅱ OPERATION

Introduction/Determining the Right Machine

Congratulations on your purchase of our saw! You've made an excellent choice! Our floor saw has been specifically designed as the ideal machine for the professional contractor who is engaged in concrete and asphalt flat cutting.

The machines used for the primary purpose of "flat" cutting. This type of cutting is described as "flat" because the pavement is cut somewhere close to a horizontal plane. It is the most common type of diamond blade cutting.

Floor saws in the industry are available in a variety of types, sizes and styles, they range from manual or self propelled in horsepower from 7-72hp. It is possible to cut both concrete (green or cured, with or without rebar) or asphalt with a floor saw. Our saw utilized for jobs requiring precision cutting including floors, pavements, walkways, ramps and other flat sawing applications.

You will find a saw to fit a wide variety of job applications.

Upon receipt of your machine, **CAREFULLY CHECK FOR ANY FREIGHT DAMAGE.** Any damage should be immediately reported to the carrier and a claim registered.

Operating Principle/Delivery Checks/ Installing Blade/Types of Cutting

OPERATING PRINCIPLE

The following instructions were compiled to provide you information on how to obtain long and trouble free use of the unit. Periodic maintenance of this unit is essential. Read the manual in its entirety and follow the instructions carefully. Failure to do so may injure yourself or a bystander.

DELIVERY INSPECTION

Immediately upon taking delivery of your new equipment and before putting it into service:

- Read the handbook completely—it could save a great deal of unnecessary expense.
- Read the engine manual supplied.
- Check the general condition of the equipment—has it been damaged during delivery?
- Check engine oil level.
- Check fuel levels.

Recommend lubricants are detailed in the **CARE AND MAINTENANCE** section.

INSTALLING BLADE

1. Be certain that the spark plug is disconnected or saw is unplugged.
2. Remove the blade shaft nut, and take off outside blade shaft flange.
3. Clean off any foreign particles on the clamping surfaces of flanges and on the mounting surface of the blade.
4. Place the blade on the blade shaft, lining up the offset drive pin in the blade with the drive pin in the mounting collar (if the pin system is available on the machine). If your blade has a directional rotational arrow, position arrow for down cut (diamond tail trailing for down cut).
5. Replace the outside blade shaft flange on the blade shaft. Drive pin on the inside collar must project through the drive hole in the blade and into the outside collar (if the pin system is available on the machine).
6. Tighten the blade shaft nut securely against star washer and outside flange, using wrench supplied.
7. Reconnect the spark plug or (with switch “off”) plug in the electric supply cord.

TYPES OF CUTTING

Cut speed depends entirely on using the correct blade for the material to be cut. Wet or dry, diamond blades of various specifications are available for cutting concrete or asphalt.

Before Starting/Cold Start/Hot Start/ To Start Cutting

BEFORE STARTING

1. Use correct blade for cutting conditions.
2. Ensure arbors and flanges are clean and undamaged.
3. Mount blade and tighten securely using wrench.
4. When wet cutting, check water jets for adequate flow.
5. Align pointer with cutter blade.

Caution – Set unit up in an open area. Avoid close proximity to structures or other equipment. Failure to do so may cause inadvertent injury to operator or other persons in the area.

Cold start – Open the fuel valve under the gas tank all the way. Position the engine stop switch, located on the engine, to run. Open the throttle approximately half way and apply the choke. Pull the starter rope sharply. When the engine starts, open the choke and adjust the throttle as necessary to keep it running. Allow the engine to warm up for a few minutes before placing it under the load. If the engine doesn’t start after (3) pulls, open choke slightly to prevent flooding. Always operate the engine at full throttle when under load.

Hot Start – Open the valve under the gas tank all the way if it has been shut off. Open the throttle approximately half way. Do not apply the choke. Pull the starter rope sharply until the engine starts. When the engine starts, adjust the throttle. Always operate the engine at full throttle when under load.

NOTE: These starting instructions are general guidelines only. Since many engine options are available, consult the Engine Manual included with this unit for specific instructions.

Caution – Gasoline Engines – To improve the engine service life, allow the engine to idle without load for (2) to (5) minutes before shutting it down. When the idling period is up, use the stop switch located on the engine and turn it to stop. Close the fuel valve under the gas tank. Engine flooding can occur if the valve is left open during transport.

TO START CUTTING

1. Start engine and let engine warm up. All cutting is done at full throttle.
2. Align blade and saw with cut. If wet cutting, open water valve and turn water safety switch on.
3. Step on the left side of PEDAL until hear a “click”, then turn on the WHEEL HANDLE on the top of the machine to remove the equipment forward and reverse, step down the right side of PEDAL to change to “push” driving system.
4. Lower blade into cut slowly.
5. Cut as fast as blade will allow. If blade climbs out of cut, reduce forward speed or depth of cut.
6. Use only enough side pressure on saw handles to follow cutting line.

Cutting/Belts & Pulleys

CUTTING

Lower the blade into concrete to required depth by turning the tilt crank counterclockwise. Ease the saw slowly forward. Slow forward pressure if the saw begins to stall.

Note: For deeper cuts (4 inches/102mm or more), several cuts should be made in incremental steps of 1-1/2 inch (38mm) to 2 inches (51mm) until the desired depth is reached.

Push the saw steadily forward using the front pointer as a guide. Exert enough forward pressure so that the engine/motor begins to labor, but does not slow down. If the saw begins to stall, retard forward movement until full RPM is restored to the blade. If saw stalls, raise the blade out of the cut before restarting. Avoid excessive side pressure or twisting of the blade in the cut.

BELTS & PULLEYS

NEVER MAKE ADJUSTMENTS TO V-BELTS AND PULLEYS WHILE ENGINE IS RUNNING.

1. The best tension for a v-belt drive is the lowest tension at which the belts will not slip under full load.
2. Take up tension until the belts are snug in the grooves. Run the drive for about five (5) minutes to “seat” the belts. The impose the peak load. If the belts slip, tighten them until they no longer slip at peak load. Most new belts will need additional tensioning after seating.
3. Remember, too much tension shortens belt and bearing life.
4. Check the belt tension frequently during the first day of operation. Check the belt tension periodically thereafter and make any necessary adjustments.
5. The two most common causes of sheave misalignment are:

a) The engine drive shaft and the blade shaft are not parallel.

b) The pulleys are not located properly on the shafts.

6. To check alignment, use a steel straight edge. See Figure 1.

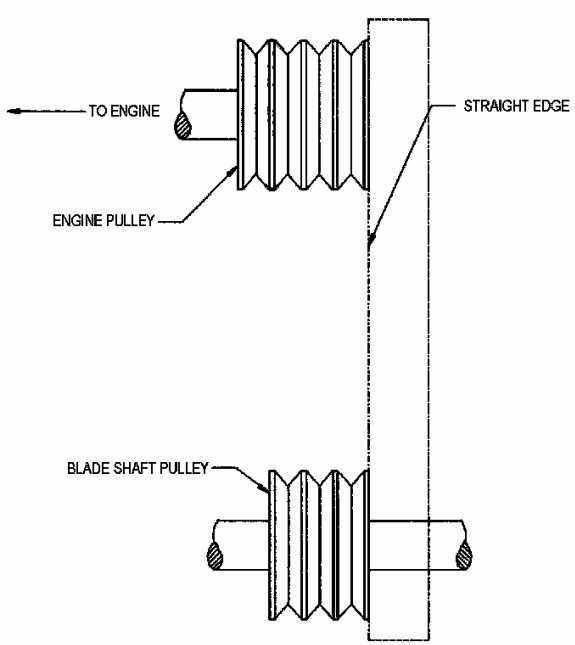


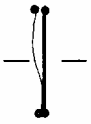
Figure 1

7. Line up the straight edge along the outside face of both pulleys shown in the drawing. All pulleys have (2) set screws in the bottom of their grooves. Set screws require thread locking lock title.
8. Misalignment will show up as a gap between the pulley face and straight edge. Make sure there is clearance between arbor pulley and saw base on both sides.

DRY CUTTING

- **Never operate any saw without safety guards in place.**
- **Do not exceed maximum operating speed established for blade diameter.**
- **Do not force blade into material: allow blade to cut at its own speed.**
- **Do not make long continuous cuts. Never dry cut for more than 30 seconds at a time. Allow blade to cool.**
- **Do not cut or grind with side of blade or cut a curve or radius. Do not cut dry with blades recommended for wet cutting.**
- **Do not operate saw with blade diameter larger than machine’s capacity.**

Ⅲ MAINTAINENACE - TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
UNEVEN SEGMENT WEAR 	• (In wet cutting) Insufficient water (usually on one side of blade). • Equipment defects also can cause the segments to wear unevenly. • Saw head is misaligned.	• Flush water system. • Check flow to both sides of blade. • Replace bad bearings, worn arbor shaft or misalignment to spindle. • Check alignment for squareness, both vertically and horizontally, of the saw blade.
SEGMENT CRACKS 	• Blade is too hard for material being cut.	• Use a blade with a softer bond/matrix.
SEGMENT LOSS 	• Blade overheats because of lack of coolant (water or air). • Core is worn from undercutting. • Defective collars/flanges set blade out of alignment. • Blade is too hard for material being cut. • Blade is cutting out of round, causing a pounding motion. • Improper blade tension.	• (Wet Cutting) Check water lines. • Make sure flow is adequate on both sides of blade and there are no blockages • Use sufficient water to flush out the cut. • (Dry Cutting) Run blade free of cut periodically to air cool. • Clean collars/flanges or replace if they are under recommended diameter. • Use proper blade specification for material being cut. • Replace worn bearings; realign blade shaft or replace worn blade mounting arbor. • When ordering blades match shaft speed of saw. • Check spindle speed to ensure blade is running at correct RPM. • Avoid twisting or turning blade in the cut.
CRACKS IN CORE 	• Blade flutters in cut as a result of losing blade tension. • Blade specification is too hard for the material being cut.	• Tighten the blade shaft nut. • Make sure blade is running at proper speed and that drive pin is functioning properly. • Use a softer bond/matrix to eliminate stress.
LOSS OF TENSION 	• Core overheating. • Core overheating as a result of blade spinning on arbor. • Core overheating from rubbing the material being cut. • Unequal pressure at blade clamping collars/flanges. • Blade is too hard for the material being cut.	• Make certain blade RPM is correct. • Check water flow, distribution and lines. • Tighten the blade shaft nut. Make certain the drive pin is functioning. • Properly align the saw to square cut. • Collars/flanges must be identical in diameter and the recommended size. • Use a softer bond/matrix to reduce stress.

Ⅲ MAINTAINENACE - TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
BLADE WOBBLES 	• Blade is on a damaged or worn saw. • Worn collar. • Blade runs at an incorrect speed. • Collar/flange diameters are not identical. • Blade is bent as a result of dropping or twisting.	• Check for bad bearings, bent shaft, or worn mounting arbor. • Check collars/flanges to make sure they are clean , flat and of correct diameter. • Set engine at proper RPM. • Use proper size blade collars/flanges. • DO NOT use bent blade. Contact blade manufacturer.
BLADE WILL NOT CUT 	• Blade is too hard for material being cut. • Blade has become dull. • Blade does not cut material it was specified for.	• Select proper blade for material being cut. • Sharpen by cutting on softer abrasive material to expose diamonds. If continually sharpening, the blade is too hard for the material being cut. • Break-in on the material to be cut. If it does not dress itself, sharpen as you would a dull blade.
UNDERCUTTING THE CORE 	• Abrasive wearing of the core faster than the segments.	• Use water to flush out fines generated during cutting • Use wear-restardant cores.
ARBOR HOLE OUT-OF-ROUND 	• Collars/flanges are not properly tightened, permitting blade to rotate or vibrate on the shaft. • Collars/flanges are worn or dirty. Blade is not properly mounted.	• Make certain the blade is mounted on the proper shaft diameter. Tighten the shaft nut with a wrench to make certain that the blade is secure. • Clean collars/flanges, make sure they are not worn. Tighten arbor nut. • Make sure the pin hole slides over drive pin.
BLADE WORN OUT OF ROUND 	• Shaft bearings are worn. • Surges occur because engine is not properly tuned. • Blade arbor hole is damaged from incorrectly mounting the blade. • Bond/matrix is too hard for • material. Blade si slipping, wearing one half of blade more than other.	• Install new blade shaft bearings or blade shaft, as required. • Tune engine according to manufacturer's manual. • If core is worn or arbor hole damaged, DO NOT USE. Contact blade manufacturer. • Replace worn shaft or mounting arbor bushing. • Make certain that drive pin is functioning. • Tighten spindle nut.

Ⅳ LUBRICATION AND SERVICE

- Check oil levels, wiring, hoses (air, fuel, water) and lubricate machine daily.
- Repair or replace all worn or damaged components immediately.
- Check drive belt tension, do not over-tension.
- Make sure machine has full set of matched belts.
- Check blade shaft, make sure arbor and threads are not worn, damaged, or bent.
- Blade shaft bearings should be tight, no free play side-to-side or up and down.
- Grease blade shaft bearings daily.
- Blade collars should be clean, free of nicks and burrs. No diameter wear and not out of round.
- Drive pin not excessively worn or bent and free of gouges.
- All guards in place and secure.
- All fasteners tight and secure.
- Air filter/oil filter (hydraulic or engine) clean.
- Flush clean water through the pump and spray the assembly every night. This prolongs the pump and blade life.

Lubricants:
Engine Oil SAE 10W-30
General Grease #1 Lithium

- Clean machine before starting lubrication maintenance.
- Insure machine is on solid, level ground before starting maintenance.
- During lubrication maintenance insure strict cleanliness is observed at all times.
- To avoid the risk of accidents, use the correct tool for the job and keep tools clean.
- The draining of engine oil is best carried out when the oil is warm NOT hot.
- Any spilled oil must be cleaned up immediately.
- Use only clean containers for oil and only CLEAN, FRESH oils and grease of correct grade.
- Contaminated Water/Fluids/Oils/Filters must Be Disposed of Safely.

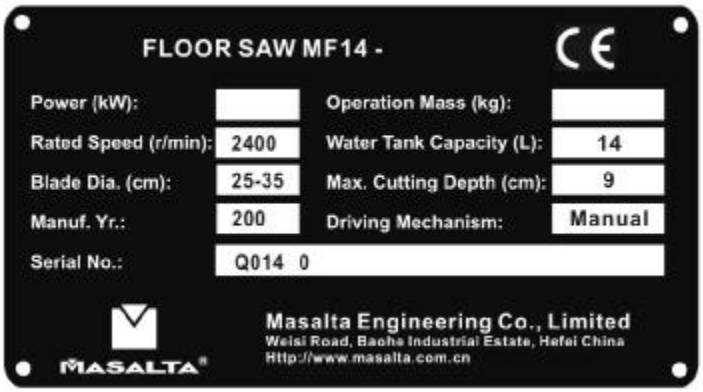
Ⅴ SEPECIFICATION

Motor / Operation Mass:

Model	Engine Type	Max. Output	Operating Weight
MF14-1	Diesel, Kipor 170	3.1 kW (4.2hp)	211 lbs (96 kgs)
MF14-3	Petrol, Robin EX17	4.2 kW (5.7hp)	183 lbs (83 kgs)
MF14-4	Petrol, Honda GX160	4.1 kW (5.5hp)	183 lbs (83 kgs)
MF16-1	Diesel, Kipor 178	4.4 kW (6.0hp)	373 lbs (169 kgs)
MF16-3	Petrol, Robin EH360	8.6 kW (11.5hp)	317 lbs (144 kgs)
MF16-4	Petrol, Honda GX390	9.6 kW (13.0hp)	317 lbs (144 kgs)
MF20-1	Diesel, Kipor 186FE	6.6 kW (9.0hp)	476 lbs (216 kgs)
MF20-3	Petrol, Robin EH360	8.6 kW (11.5hp)	430 lbs (195 kgs)
MF20-4	Petrol, Honda GX390	9.6 kW (13.0hp)	430 lbs (195 kgs)

Model	MF14-1/3/4	MF16-1/3/4	MF20-1/3/4
Max. Cutting Depth cm (in)	9 (3.5")	14 (5.5")	17 (6.7")
Blade size cm (in)	30-35 (12"-14")	30-40 (12"-16")	35-50 (14"-20")
Depth Adjustment	Handle Rotation	Handle Rotation	Handle Rotation
Driving	Manual Push	Manual Push	Semi-self Propelled
Water Tank Capacity	3.2 gal (12 liters)	9.25 gal (35 liters)	10.5 gal (40 liters)

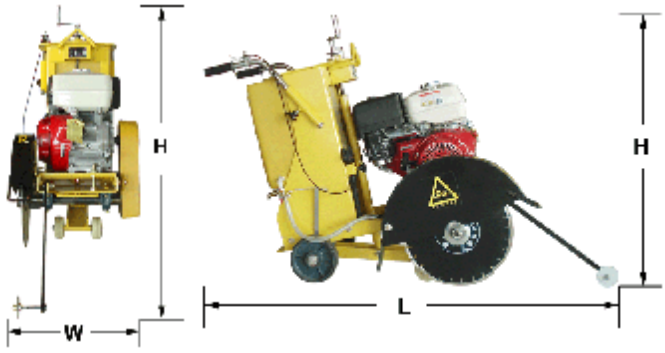
Nameplate:



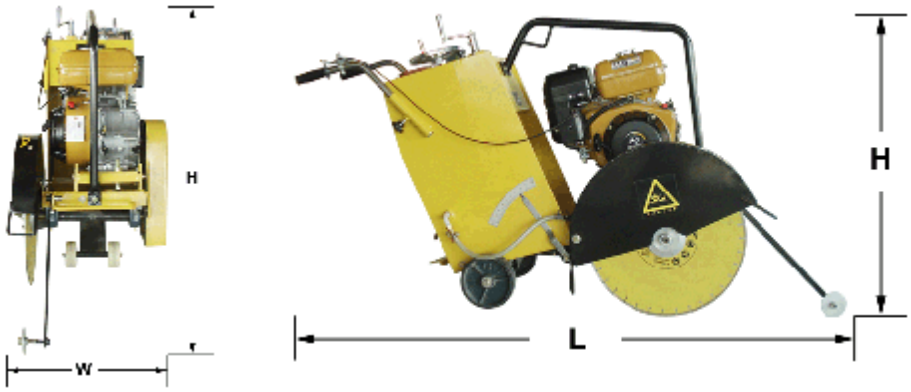
DIMENSIONS (L x W x H):

MF14: 165 x 48 x 95 cm

MF16: 155 x 60 x 95 cm



MF20: 180 x 55 x 105 cm



VI TRANSPORTATION

1. Always shut off engine when transporting machine.
2. Make sure lifting device has enough capacity to hold machine (see identification plate on machine for weight).
3. Use lifting point when lifting machine.
4. Trolley wheel as optional is used for short distance transportation.

WARRANTY

These products are covered by warranty for a period of six (6) months from the date of purchase against defects in material or workmanship provided that:

· The product concerned has been operated and maintained in accordance with the operating instructions.

· Has not been damaged by accident, misuse or abuse.

· Has not been tampered with or repaired by any unauthorized person.

The owner is responsible for the cost of transportation to and from the authorized repairer and the unit is at the owners risk while in transit to and from the repairer.

Impact damage is not covered under warranty. Clutches are not covered under any warranty. Engines are warranted by their manufacturer.

MAINTENANCE RECORD

PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN

This Floor Saw has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of your Floor saw. After reading through this manual thoroughly, you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service, be sure to see your dealer. For your convenience we have provided this space to record relevant data about your Floor Saw.

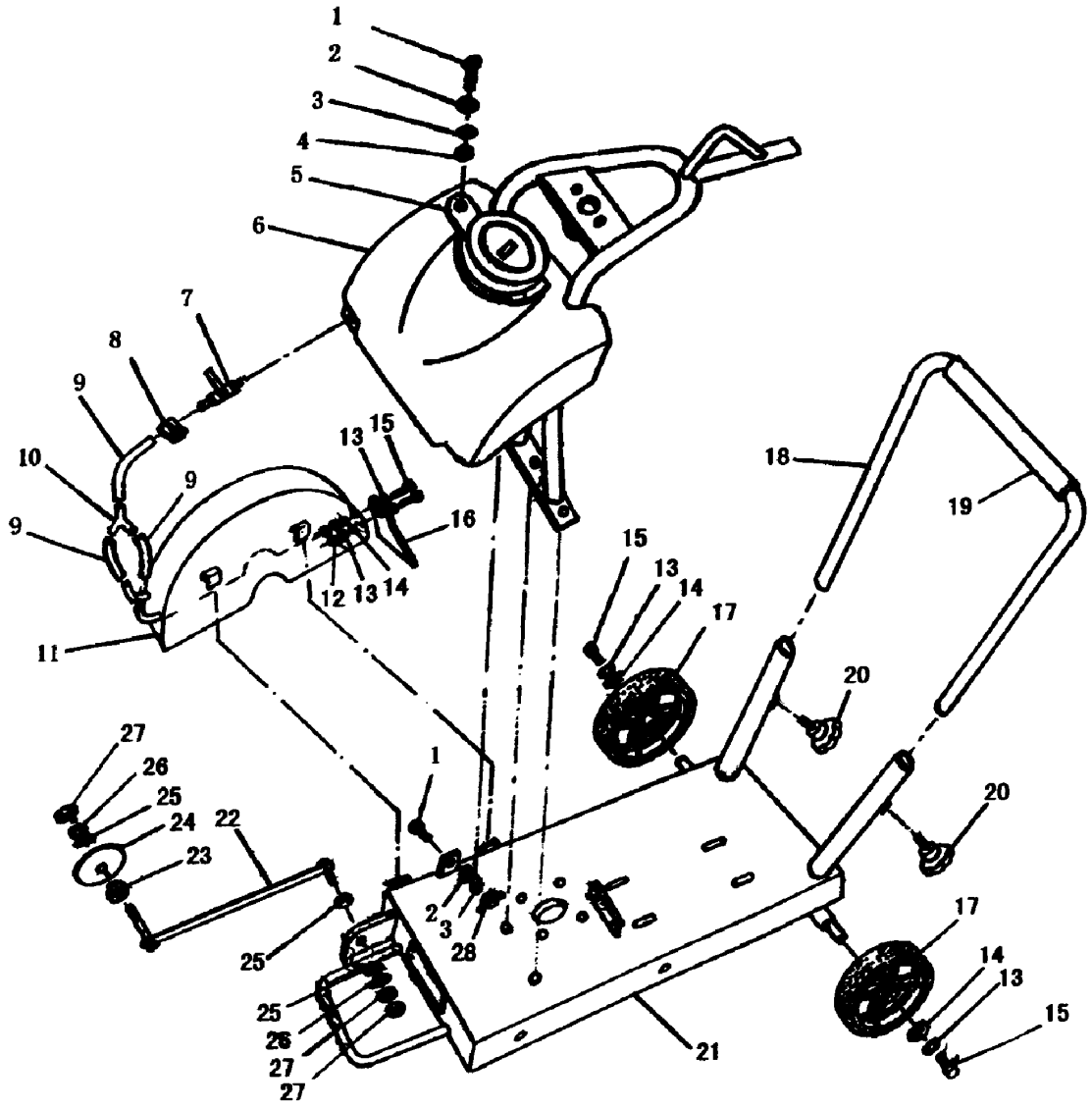
Invoice Number:		Type of Machine:	
Date Purchased:		Dealer Name:	
Serial Number:		Dealer Phone:	

REPLACEMENT PARTS USED					MAINTENANCE LOG	
PART NO.	DESCRIPTION	QUANTITY	COST	DATE	DATE	OPERATION

MASALTA®

MF14 WALK-BEHIND CONCRETE FLOOR SAW

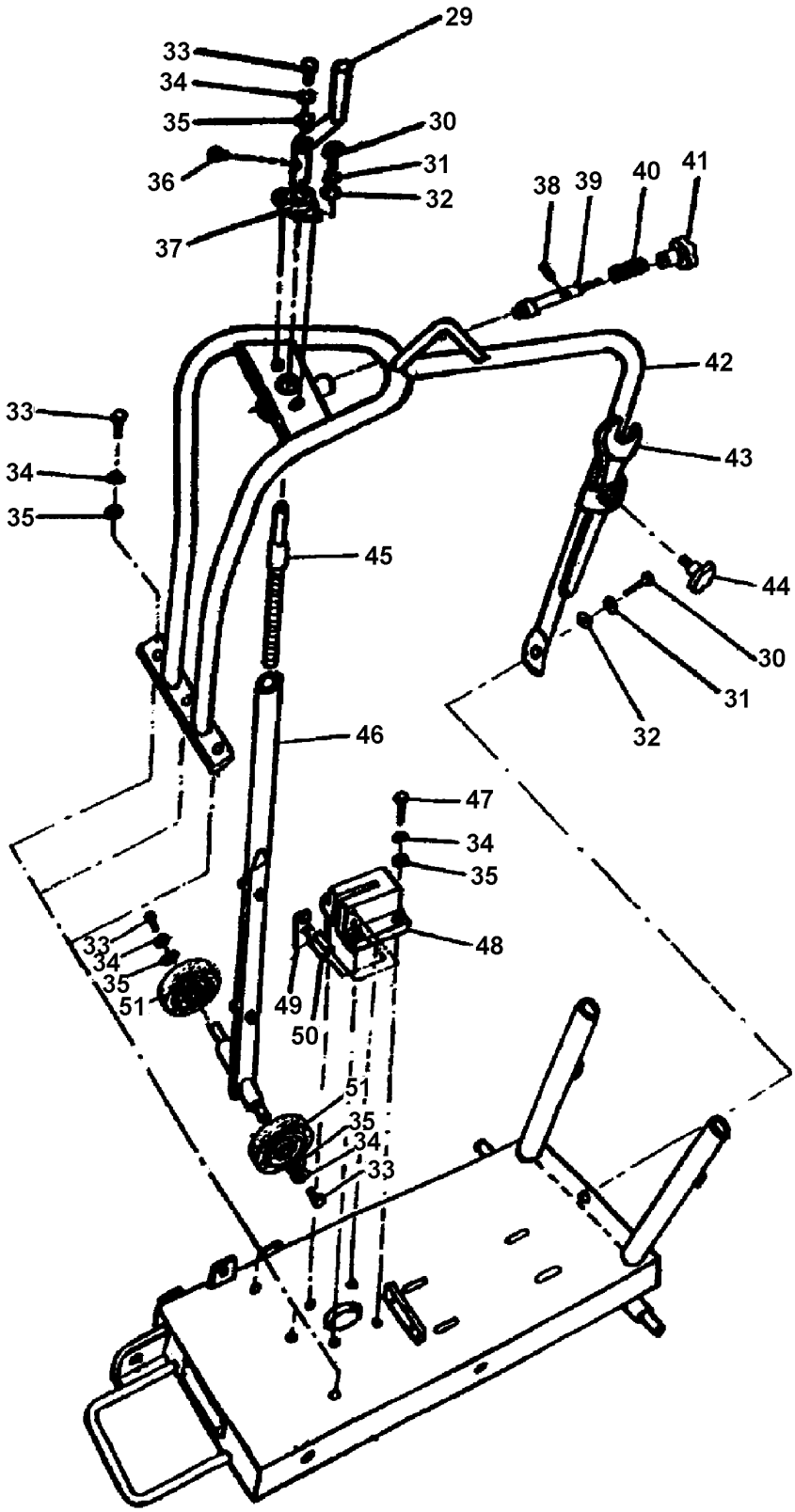
PARTS LIST



1. Major Components

1. Major Components

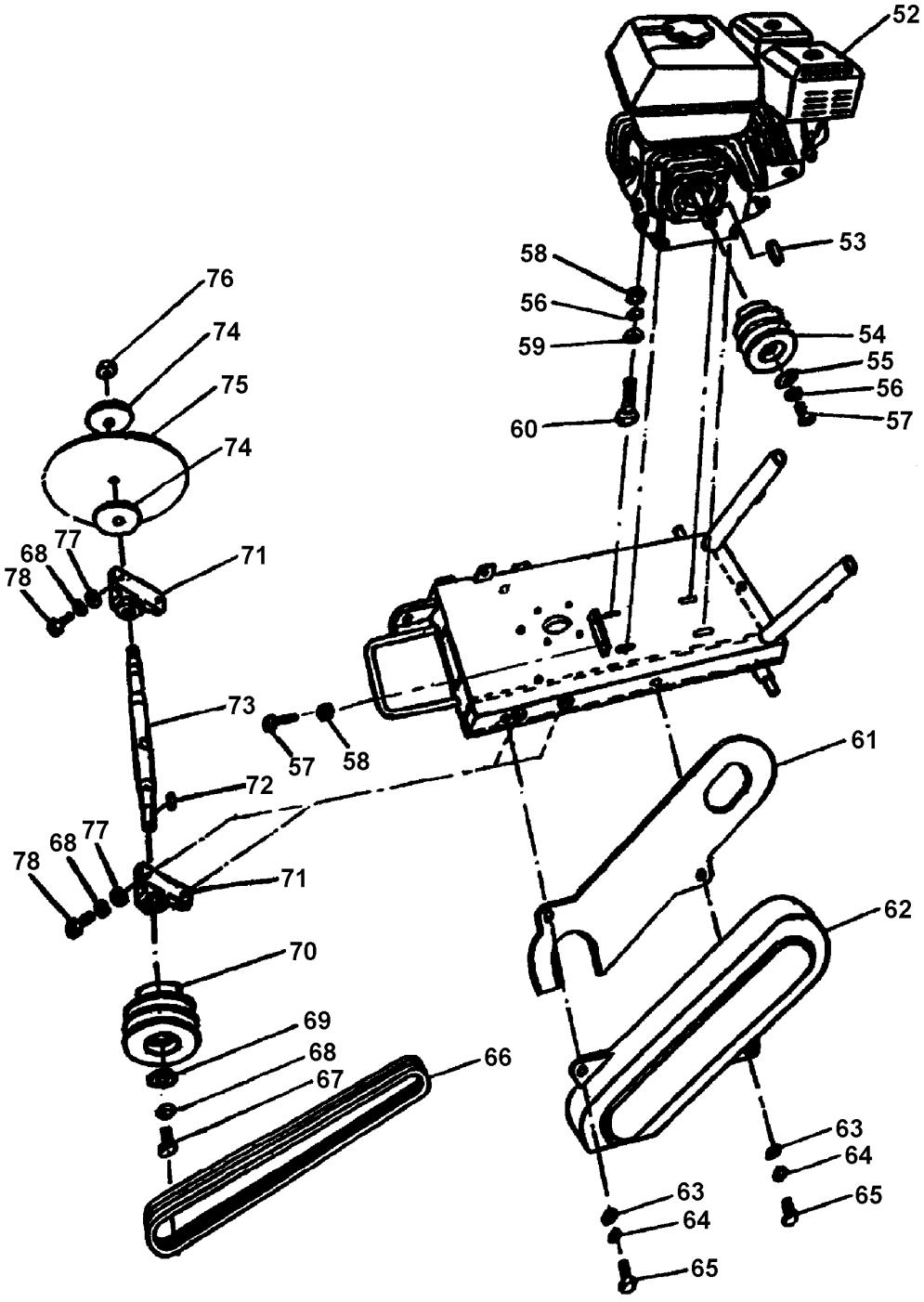
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	12120101	HEXAGONAL BOLT M10 X 30	2
2	12120102	WASHER 10	2
3	12120103	SPRING WASHER 10	2
4	12120104	HEXAGONAL NUT M10	2
5	12120105	WATER TANK COVER	1
6	12120106	WATER TANK	1
7	12120107	COCK	1
8	12120108	HOOK	1
9	12120109	ELBOW	3
10	12120110	TEE	1
11	12120201	BLADE GUARD	1
12	12120202	HEXAGONAL NUT M8	2
13	12120203	SPRING WASHER 8	4
14	12120204	WASHER 8	6
15	12120205	HEXAGONAL BOLT M8 X 25	4
16	12120206	RUBBER MAT	1
17	12120301	WHEEL (REAR)	2
18	12120302	HANDLE	1
19	12120303	HANDLE BAR GRIP	1
20	12120304	KNOB	2
21	12120305	BASE ASSY.	1
22	12120401	POINTER	1
23	12120402	NUT	1
24	12120403	POINTER WHEEL	1
25	12120404	WASHER 12	3
26	12120405	SPRING WASHER 12	2
27	12120406	HEXAGONAL NUT M12	3
28	12120407	NUT (BUTTERFLY) M10	1



2. Depth Adjusting Assy.

2. Depth Adjusting Assy.

ITEM NO.	PART NO.	DESCRIPTION	QTY
29	12120501	WHEEL HANDLE	1
30	12120502	HEXAGONAL BOLT M10 X 30	3
31	12120503	SPRING WASHER 10	3
32	12120504	WASHER 10	3
33	12120505	HEXAGONAL BOLT M8 X 25	6
34	12120506	SPRING WASHER 8	10
35	12120507	WASHER 8	10
36	12120508	SCREW M8 X 12, CROSS HEAD	1
37	12120509	BEARING	1
38	12120601	SPRING PIN 4X16	1
39	12120602	PIN	1
40	12120603	SPRING	1
41	12120604	PULLING NUT	1
42	12120605	LIFTING HOOK	1
43	12120606	WRENCH	2
44	12120607	KNOB	1
45	12120701	SCREW STEM	1
46	12120702	CONNECTING STEM	1
47	12120703	HEXAGONAL BOLT M8 X 40	4
48	12120704	POINTER PLATE	1
49	12120705	TIGHTENING PLATE	1
50	12120706	PIN 8 X 50	2
51	12120707	WHEEL (FRONT)	2



3. Engine & Transmission Assy.

3. Engine & Transmission Assy.

ITEM NO.	PART NO.	DESCRIPTION	QTY
52	12120801-1	DIESEL, KAMA 170	1
	12120801-2	PETROL, 168FB	1
	12120801-3	PETROL, ROBIN EY20	1
	12120801-4	PETROL, HONDA GX160	1
53	12120802	KEY 5 X 45	1
54	12120803-1	PULLEY FOR DIESEL ENGINE	1
	12120803-2	PULLEY FOR CHINESE PETROL ENGINE	1
	12120803-3	PULLEY FOR ROBIN ENGINE	1
	12120803-2	PULLEY FOR HONDA ENGINE	1
55	12120804	WASHER 8	1
56	12120805	SPRING WASHER 8	5
57	12120806	HEXAGONAL BOLT M8 X 25	3
58	12120807	HEXAGONAL NUT M8	6
59	12120808	WASHER 8	4
60	12120809	HEXAGONAL BOLT M8 X 40	4
61	12120901	INNER GUARD	1
62	12120902	BELT GUARD	1
63	12120903	WASHER 10	2
64	12120904	SPRING WASHER 10	2
65	12120905	HEXAGONAL BOLT M10 X 30	2
66	12120906	BELT	2
67	12120907	HEXAGONAL BOLT M12 X 25	1
68	12120908	SPRING WASHER 12	5
69	12120909	WASHER 12	1
70	12120910	PULLEY, AXIS	1
71	12120911	BEARING	2
72	12120912	KEY 8 X 35	1
73	12120913	PRINCIPAL AXIS	1
74	12120914	BLADE FLANGE	2
75	12120915	BLADE	1
76	12120916	NUT	1
77	12120917	WASHER 12	2
78	12120918	HEXAGONAL BOLT M12 X 45	2

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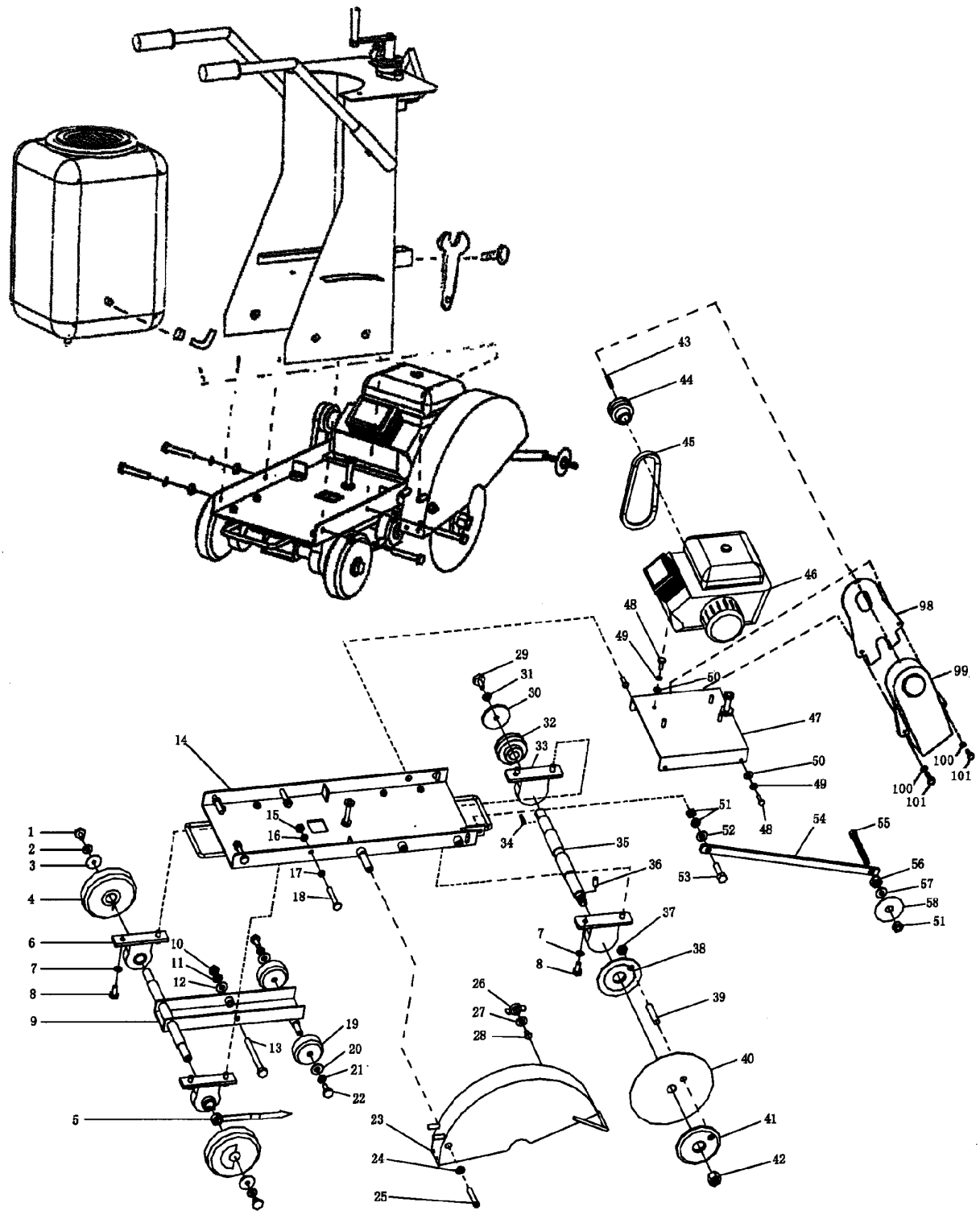
MF16 WALK-BEHIND CONCRETE FLOOR SAW

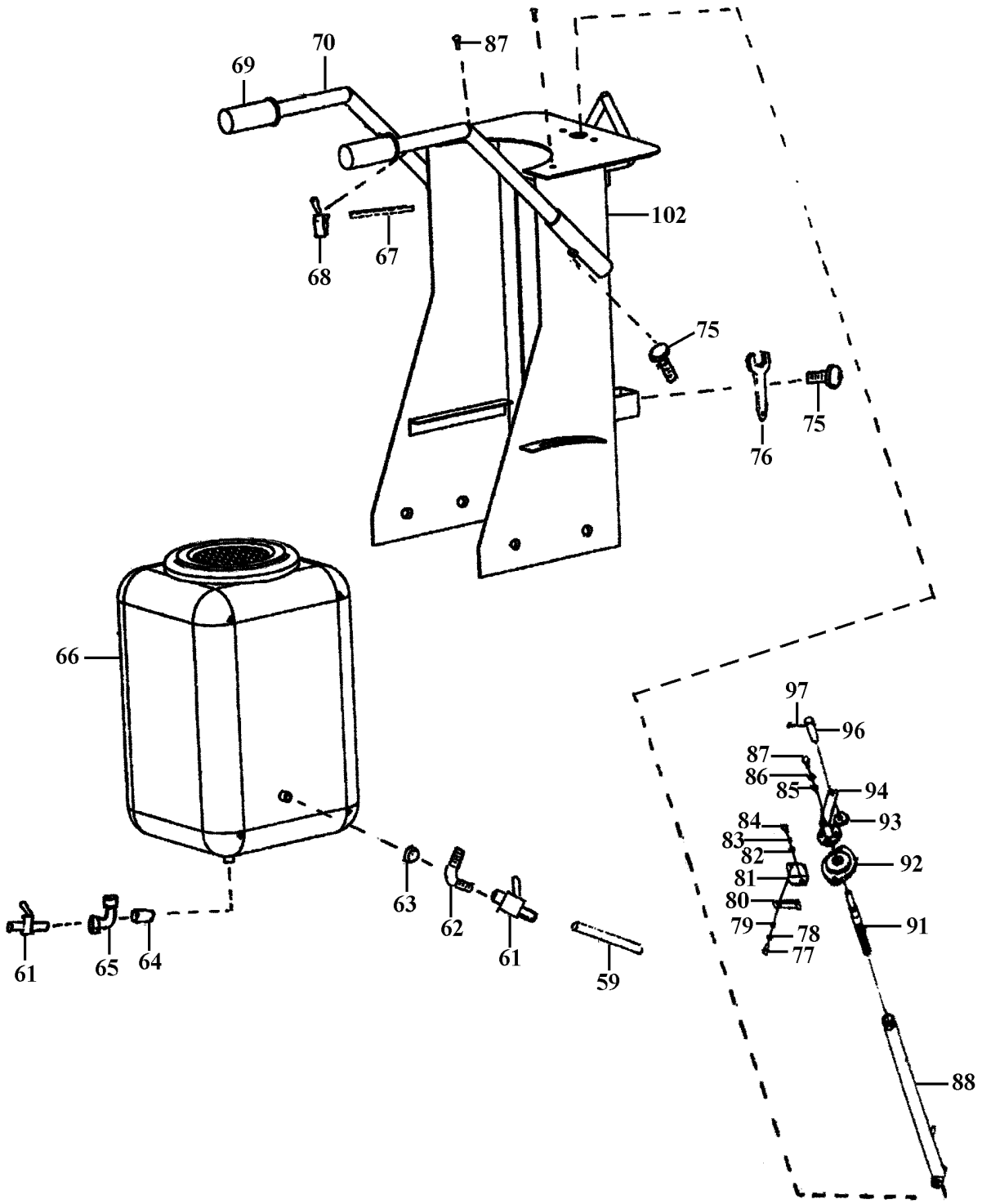
PARTS LIST



MF16 PARTS LIST 1

MF16 PARTS LIST 1

ITEM NO.	PART NO.	DESCRIPTION	QTY	ITEM NO.	PART NO.	DESCRIPTION	QTY
1	05780012	BOLT M12X20-GB5780	2	35	18090002	PRINCIPAL AXIS	1
2	09300012	SPRING WASHER 12-GB93	2	36	01190006	PIN C6 - GB119	1
3	18030104	DEEP WASHER	2	37	06170008	NUT M8 - GB6170	1
4	00180303	RUBBER WHEEL (REAR)	2	38	18090301	BLADE FLANG (INNER)	1
5	18030103	INDICATOR	1	39	07300008	PIN	1
6	00180302	BEARING & BRACKET	2	40	00180007	BLADE	1
7	09300012	SPRING WASHER 12-GB93	8	41	18090302	BLADE FLANG (OUT)	1
8	05780012	BOLT M12-GB5780	8	42	18090004	NUT	1
9	18030101	WHEEL RACK MODULE	1	43	01096000	KEY - GB1096	1
10	06187012	NUT 12-GB848	1	44	18110001-1	EINGINE PULLEY FOR DIESEL	1
11	09300012	SPRING WASHER 12-GB93	1		18110001-2	ENGINE PULLEY FOR HONDA	1
12	08480012	WASHER 12-GB93	1		18110001-3	ENGINE PULLEY FOR ROBIN	1
13	05784012	BOLT M12 X 120 - GB5784	1	45	01154400-1	V-BELT SPA-GB11544 FOR DIESEL	1
14	18100000	BASE ASSY	1		01154400-2	V-BELT SPA-GB11544 FOR PETROL	1
15	06170012	NUT M12 - GB6170	4	46	00181100-1	DIESEL ENGINE	1
16	09300012	SPRING WASHER 12-GB93	4		00181100-2	HONDA ENGINE	1
17	09700012	WASHER 12-GB97	4		00181100-3	ROBIN ENGINE	1
18	05783012	BOLT M12 - GB5783	4	47	18070000	BASE ASSY. OF ENGINE	1
19	00180301	RUBBER WHEEL (FRONT)	2	48	05784010	BOLT M10 X 30 - GB5784	8
20	18030102	DEEP WASHER	2	49	09300010	SPRING WASHER 10 - GB93	8
21	09300008	SPRING WASHER 8 - GB93	2	50	09700010	WASHER 10 - GB97	8
22	05780008	BOLT M8 X 20 - GB5780	2	51	06178012	NUT M12 - GB6178	3
23	18080000	BLADE GUARD	1	52	08480012	WASHER 12 - GB848	1
24	09600010	WASHER 10 - GB96	1	53	05780012	BOLT M12 X 45 - GB5780	1
25	05781010	BOLT M10 - GB5781	1	54	18010001	POINTER	1
26	06200010	NUT M10 - GB62	1	55	05780012	BOLT M12 X 110 - GB5780	1
27	09600010	WASHER 10 - GB96	1	56	18010002	NUT	1
28	00180008	SCREW	1	57	08480012	WASHER 12 - GB848	1
29	05780010	BOLT M10 X 25 - GB5780	1	58	18010003	POINTER WHEEL	1
30	18090001	WASHER	1	98	18110002	INNER BELT GUARD	1
31	09300010	SPRING WASHER 10 - GB93	1	99	18110003	OUTER BELT GUARD	1
32	18090005	PULLEY	1	100	18110004	BOLT M10X35-GB5780	2
33	00180902	BEARING & BRACKET	2	101	18110005	WASHER 10	2
34	01096008	KEY C8 X 38 - GB1096	1	_ _	_ _ _ _	_ _ _ _ _ _ _ _ _ _ _ _	_ _



MF16 PARTS LIST 2

MF16 PARTS LIST 2

ITEM NO.	PART NO.	DESCRIPTION	QTY
59	00180006	PLASTIC PIPE	3
61	00180002	COCK	2
62	18050006	ELBOW BEND	1
63	00180501	NUT	1
64	00180502	NUT	1
65	18050011	ELBOW	1
66	18050000-1	WATER TANK	1
67	00180009	THROTTLE CABLE	1
68	00180010	THROTTLE CONTROL	1
69	00180011	HANDLE BAR GRIP	2
70	18060000-1	HANDLE LEVER	2
75	00180004	KNOB	3
76	00180001	WRENCH	1
77	05781008	BOLT M8 X 30 - GB5781	1
78	09300008	SPRING WASHER 8 - GB93	1
79	09700008	WASHER 8 - GB97	1
80	18030006	BOARD PLUG	1
81	18030007	ORIENTATION BOARD	1
82	09700010	WASHER 10 - GB97	2
83	09300010	SPRING WASHER 8 - GB93	2
84	05781010	BOLT M10 - GB5781	2
85	08480008	WASHER 8 - GB848	1
86	09300008	SPRING WASHER 8 - GB93	1
87	05784008	BOLT M8 X 20 - GB5784	1
88	18030200	MANUAL RAISE/LOWER ASSY.	1
91	18030005	SCREW	1
92	00180301	BEARING & BRACKET	1
93	06187010	NUT M10 - GB6787	1
94	18030400	BRACKET	1
96	18030404	HANDLE GRIP	1
97	07300006	BOLT M6 - GB73	1
102	18050012	WATER TANK HOLDER ASSY	1