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OPERATIONS MANUAL

MC8 SCARIFYING MACHINE

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1. SAFETY INSTRUCTIONS	3
2. ASSEMBLY	3
3. HANDLE ASSEMBLY	3
4. STOP SWITCH	3
5. EDGER INSTALLATION	4
6. EDGER REMOVAL	4
7. CUTTER CAGE REMOVAL & CUTTER CHANGE	5
8. STARTING PROCEDURE	5
9. TO STOP ENGINES	5
10. MAINTENANCE	6
11. BEARING REPLACEMENT PROCEDURES	6
12. TROUBLE SHOOTING GUIDE	7
13. SPECIFICATIONS	8
14. TRANSPORTATION	8
15. WARRANTY	8
16. MAINTENANCE RECORD	9
17. PARTS LIST	10

1. SAFETY INSTRUCTIONS

- A. Only authorized, experienced or properly trained individuals should operate this equipment.
- B. Operating personnel should be equipped with proper safety protection.
- C. Rotating and moving parts will cause injury if contacted. Ensure guards and safety devices are in place before this machine is operated. Make sure engine is shut down and spark plug or air or electric supply is disconnected before servicing your **SURFACE PREPARATION UNIT**. Never leave a machine unattended when it is running.
- D. Be careful to avoid contact with the muffler when the engine is hot as it may cause severe burns.
- E. When using the **DUST CONTROL UNIT** avoid hose contact with the MC8 muffler as the muffler may burn a hole in the hose.
- F. Do not operate the machine in an explosive atmosphere, near combustible materials or where gas fumes may not be properly dispersed. Repair immediately any fuel leaks. Remove accumulated dust frequently from air filter system.
- G. Do not run the air motor without sufficient oil in the lubricating system. Lubricant levels should be checked regularly on gas and air powered units. Refer to manufacturer's manual for amounts.
- H. Before starting your unit, always raise the cutter cage assembly using the hand knob adjustment, so that the cutters do not contact the surface.

2. ASSEMBLY

Your **SURFACE PREPARATION UNIT** has been shipped partially assembled with the exception of the handle assembly. Following attachment of handle, gas powered units require only filling with fuel and a brief check of lubricant levels in preparation for operation. Engine crankcase is not pre-serviced with oil at factory; levels should be checked.

3. HANDLE ASSEMBLY

- A. To attach the handle, first remove the pin from the handle assembly. Align the lift plate and re-insert the top pin. Place flat washer on pin. Insert spring clip through hole in pin. Feed threaded bolt end of cable through hole on lift plates.
- B. Tighten cable by attaching nut.
- C. Remove the four bolts and lockwashers from the machine housing. Match up the holes on the handle assembly and the machine housing and insert the bolts and the washers. Tighten bolts corner to corner. Before final tightening, place the machine on a flat surface to ensure that all wheels contact the surface.

4. STOP SWITCH

On gas powered models feed the attached stop wire under the bridge and through the circular hole on the machine housing, from below the engine, up to attached terminal on the engine. Secure it to terminal by clamping with a pair of pliers.

5. EDGER INSTALLATION

1. Make sure that the power source is disconnected; disconnect spark plug and turn off fuel supply on gas unit.
2. Tilt machine onto handle (if your unit is equipped with a Honda GX engine, unit must be tilted forward or cylinders will be flooded with oil).
3. Remove cutter cage and retainer shaft (see cutter cage removal).
4. Facing underside of machine, slide dummy shaft through outboard bearing on left side (if engine is a Honda GX this will be on the right side of the housing).
5. Slide retainer shaft through edger cage. The roll pin in the shaft head should fit into the slot on the end plate of the cage.
6. Slide retainer shaft through the outboard bearing and the dummy shaft.
7. Using socket or wrench tighten the retainer shaft by turning counter clockwise.
8. Install edger housing using the three bolts supplied.
9. **Note:** Edger operation is not to be performed with main **MC8** cage in place.

6. EDGER REMOVAL

1. Make sure the power source is disconnected; disconnect spark plug and turn off fuel supply on gas unit.
2. Tilt machine onto handle (if your unit is equipped with a Honda GX engine, unit must be tilted forward or cylinders will be flooded with oil).
3. Using a 15/16" socket or wrench, turn head of shaft clockwise to loosen.
4. While turning the shaft outwards, cage will move towards the outer edge as well. Free cage from locking pins on shaft by pushing cage back towards main housing. Turn shaft out and remove.

7. CUTTER CAGE REMOVAL & CUTTER CHANGE

A. To remove the cutter cage from the machine:

1. Make sure that the power source is disconnected. With gas models turn off fuel supply to engine and disconnect spark plug.
2. Tilt machine onto the handle. (If your unit is equipped with a Honda GX engine, unit must be tilted forward to change cutter or cylinders will be flooded with oil. This will prevent starting).
3. Facing the underside of the machine housing place a bar between the cutter rods to jam cage.
4. Insert a drift pin into the hole on the main shaft and pull towards you until loose (if equipped with a Honda GX engine, drift pin will be pushed away from you to loosen main shaft). Remove drift pin and turn shaft out by hand. Remove shaft.

Changing Cutters/Shafts

Once the cage has been removed use Allen Key and open end wrench, remove screws from cover plate and remove from cage. With drift pin, tap rods (or, if changing cutters on edger cage) from the drive side until free of cage. Replace cutters or shafts as required. Replace cover plate. To re-install cutter cage in machine, reverse procedure for removal. Ensure that shaft is tight.

Removing cage for Hand Held Models

Remove thumbscrews from cover plate, remove cover. Using chuck wrench insert in slot of matching spline of drive unit to hold cage assembly. Insert pin wrench in matching holes of cage assembly. Holding both wrenches at the same time, turn pin wrench counter clockwise until cage is free.

Changing Cutters-Hand-Held Unit

Remove cage shaft plate by removing screws. Using drift pin, tap out rods until free of cage. Replace cutters or shafts as required. Reposition rods and cover plate and re-install cage in unit by reversing procedure for removal.

8. STARTING PROCEDURE

Gas Operated

Important: Set the machine in an upright position and adjust the cutter cage to maximum height by turning the height adjustment knob to its farthest position. (This will ensure clearance for the rotating cage).

Open the fuel valve on gas tank. Place throttle lever at fast idle position. Set the choke to closed position. Start engine, open choke to prevent flooding. Move throttle control to open or run position when engine is warmed up. Increase throttle control to maximum operating position (3600r.p.m.), close choke. Stop engine after two (2) minutes. Re-start engine.

9. TO STOP ENGINES

With machine in upright position, adjust the cutter cage to maximum height by turning the height adjustment knob to its farthest position. (This ensures clearance for the rotating cage).

GAS UNIT- Stop engine by depressing kill switch button located at top of handle.

10. MAINTENANCE

The machine is generally run in very dusty conditions. Engine life will be extended by maintaining a clean engine and using a DUST CONTROL UNIT. Keep the air filter clean at all times. Wash the element in a non-oil based solvent. Squeeze out any residue and allow filter to dry before re-installing in the air cleaner.

Lubrication: Use proper engine oil as recommended by manufacturer. Deep engine oil clean, change as required. Maintain crankcase levels as recommended in engine manual.

Spark plug: Check and clean spark plugs regularly. A fouled, dirty or carboned spark plug causes difficulty in starting and poor engine performance; set spark plug gap to recommended clearance in engine manual.

Drive Shaft: Keep a coating of grease on the drive shaft and threads for easy installation or removal and longer bushing life.

Spot Checks: Perform as required. Machine should be inspected with ignition in "off" position or power cord disconnected. Do not perform inspections while machine is running.

- Check all fasteners for tightness- machine is subject to vibration.
- Check "V" belt for wear; adjust or replace as required.
- Check that wheels are clean and rotating freely.
- Check that inside of housing is clean; remove any build-up as required.
- Check that pulleys are aligned properly to ensure that "V" belt is running true (i.e. not at an angle).

11. BEARING REPLACEMENT PROCEDURES

Important: disengage power supply. Do not attempt replacement while machine is operable

Sealed Bearing Replacement – Outboard Side: Remove drive shaft and cutter cage assembly as per cutter change procedure. Remove snap ring and bearing shield from inside housing. Loosen and remove bearing block flange by removing screws and lockwashers. Using a soft drift, drive out bearing sleeve. Remove old bearing and clean parts which will be re-used. Carefully press new bearings into flange. Clean and install bearing cover plate taking care to seat the plate flush. Re-install bearing sleeve. Take extreme care to maintain aligned installation. Do not press sleeve into position if misaligned. Mount bearing block to side of housing but do not tighten. From inside housing install bearing shield and snap ring. Center block on the housing taking care that shield does not bind on bearing sleeve. Tighten bolts when bearing block is in a free spin position.

Bearing Replacement – Drive or "V" Belt side: Remove belt guard and "V" belt. Loosen set screws, remove key and remove pulley. Remove bearing block assembly by removing screws and lockwashers. Remove snap ring and slip ring. Using a soft drift, drive out spindle. Take care not to burr or flare spindle. Remove cover plate and bearing. Carefully press new bearing into block, clean and install bearing cover plate being certain the plate fits flush. Press drive spindle into block. Install slip ring and snap ring. Center and install spindle assembly to housing. Re-install pulley and key. Ensure pulley butts flush against shoulder or spindle. Note: When removing spindle or sleeve, care must be taken not to damage or distort these parts a soft drift is recommended to prevent damage.

12. TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
GAS UNIT 1. Engine won't start	<ul style="list-style-type: none"> ● no fuel ● engine switch off ● kill switch grounded ● gas in air filter or carburetor 	<ul style="list-style-type: none"> ● refuel ● remove air filter cover, crank engine ● refer to engine manual
COMMON PROBLEMS 1. Cutters wearing unevenly 2. Drive shaft backs out while running 3. Machine jumps on floor 4. "V" belt wearing rapidly 5. Uneven cut	<ul style="list-style-type: none"> ● cage too low ● wrong setup ● material buildup ● cutters too tight ● no grease on threads ● cage lowered too far ● R.P.M. too low ● pulley misaligned ● wrong belt ● belt rubbing on surface ● wear on I.D. of front wheels ● wear on front axle 	<ul style="list-style-type: none"> ● raise cage ● see applications guide ● clean or change cutters ● remove one or more cutters ● grease threads ● not tightened properly ● adjust height knob ● reset throttle ● adjust pulley ● replace ● adjust height of machine ● replace wheels ● replace axle

Storage

The following steps should be taken to prepare your MC8 gas unit for extended storage:

- a. Close shutoff valve.
- b. Siphon excess fuel from storage tank.
- c. Start engine and run until it stalls due to lack of fuel. This will consume all the fuel in the carburetor and prevent formation of deposits due to evaporating fuel.
- d. Remove spark plug and pour two ounces of SAE 30 or SAE 40 motor oil into cylinder. Slowly crank the engine two or three times to distribute the oil throughout the cylinder. This will prevent rust during storage. Replace spark plug. Store the unit in an upright position in a cool, dry, and well ventilated area.

To start your engine after prolonged storage

- a. Refuel
- b. Open shutoff valve
- c. Start engine. Any excess oil residue will quickly burn off without harming operation

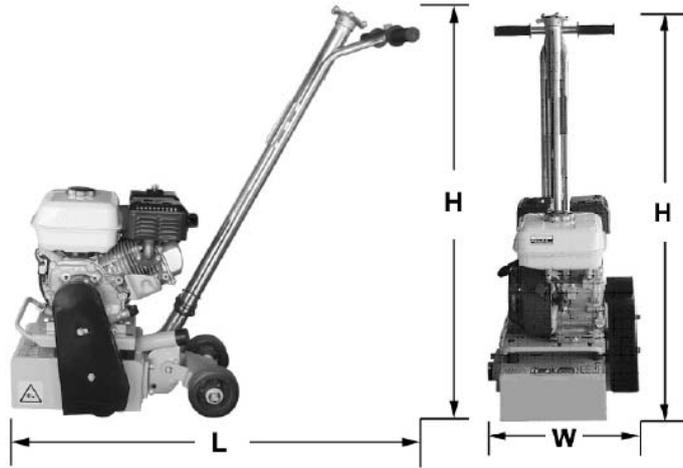
13. SPECIFICATIONS

Motor / Operation Mass / Working Width :

Model	Engine Type	Max. Output	Operation Mass (kg)	Working Width (mm)
MC8E	Electric Motor	2.2 kW (3.0hp)	42	42
MC8-3	Petrol, Robin EX17	4.2 kW (5.7hp)	62	62
MC8-4	Petrol, Honda GX160	4.1 kW (5.5hp)	61	61

Working Size (L X W X H):

MC8: 165X48X95 cm



14. 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. Trolley wheel as optional is used for short distance transportation.

15. 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:

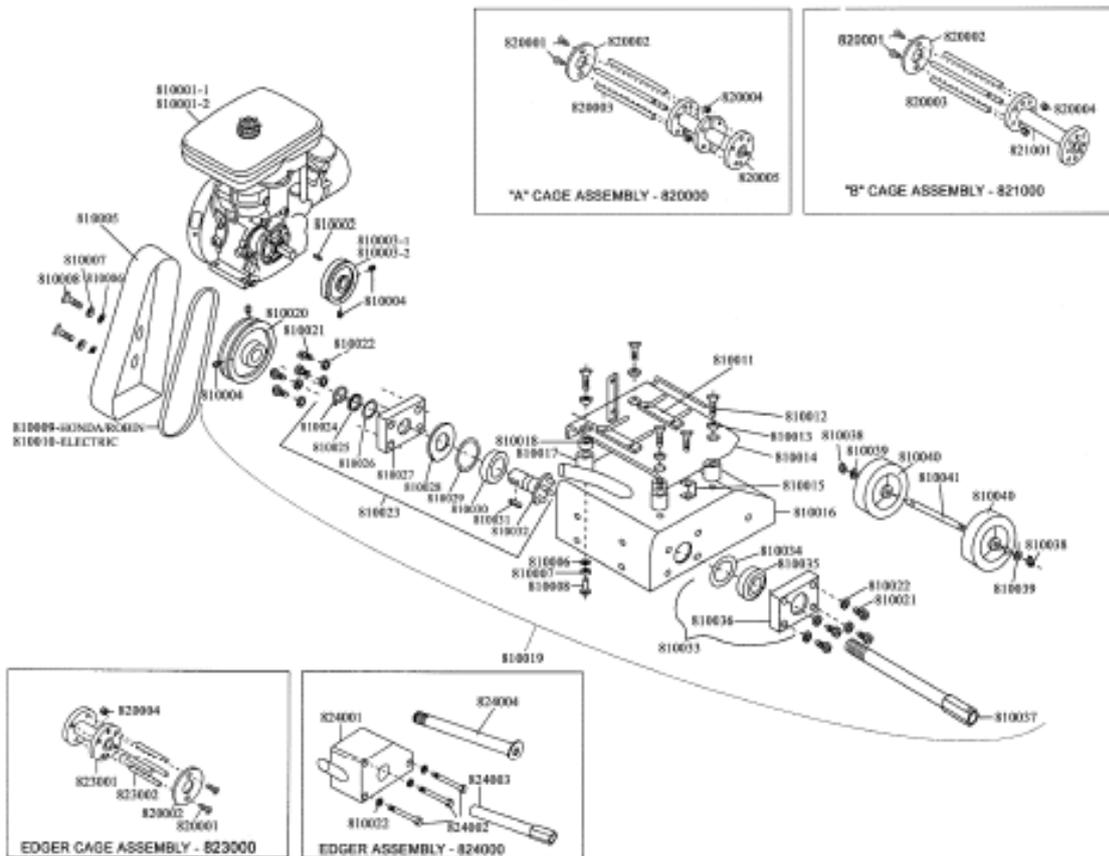
- The product concerned has been operated and maintained in accordance with the operating instructions.
- Has not been damaged by accident, misuse or abuse.
- Has not been tampered with or repaired by any unauthorized person.

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.

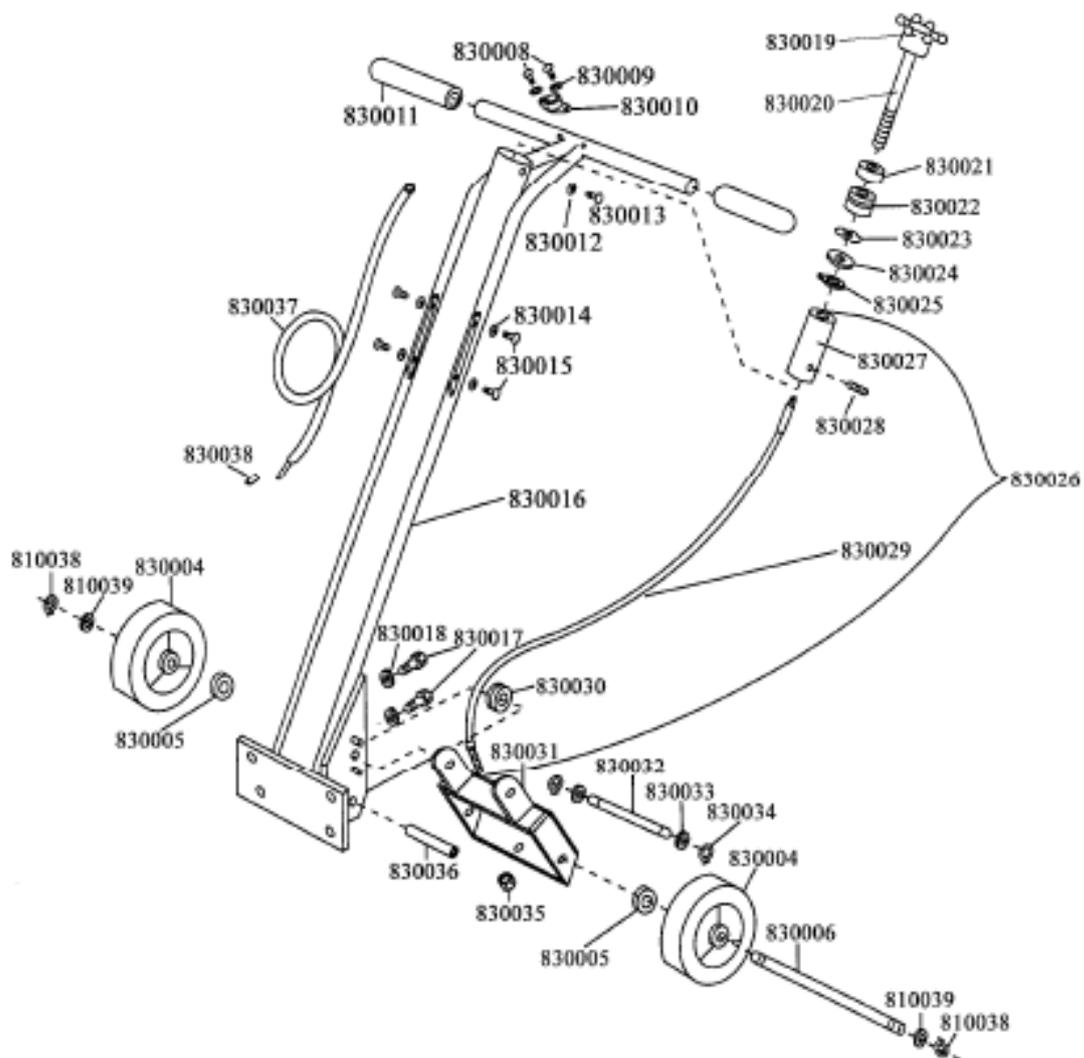
Engines are officially guaranteed by engine manufacturer. Please refer to the annex for engine warranty.

17. PARTS LIST

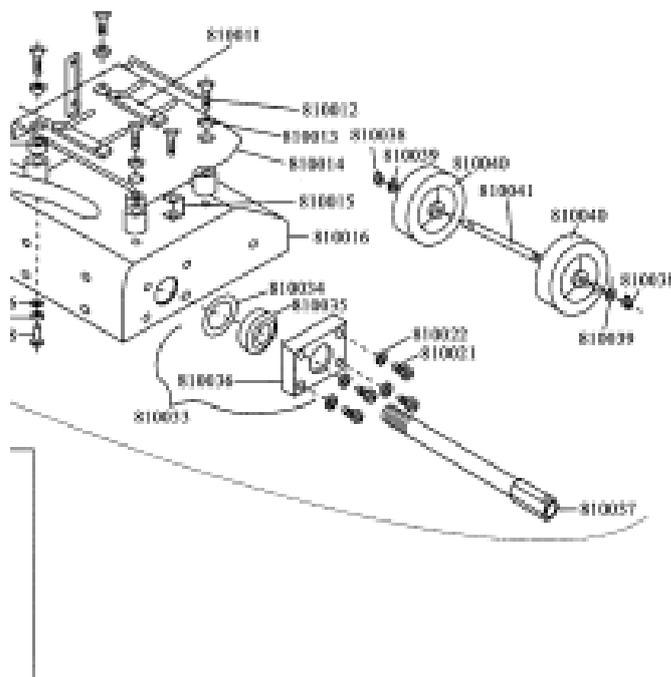
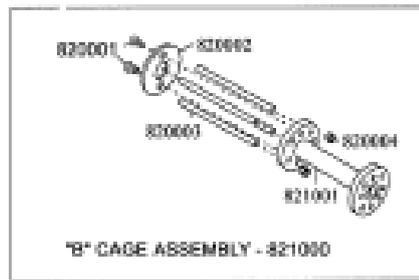
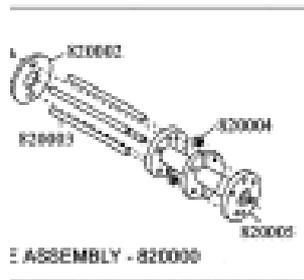


PART NO.	DESCRIPTION	QTY
810001-1	ENGINE HONDA 5.5HP	1
810001-2	ENGINE -ROBIN 5.0HP	1
810002	KEY-3/16" SQ X 1 1/2"	1
810003-1	PULLEY FOR HONDA	1
810003-2	PULLEY FOR ROBIN	1
810004	SET SCREW	4
810005	BELT GUARD	1
810006	WASHER	4
810007	LOCKWASHER	4
810008	SCREW	4
810009	BELT	2
810010	BELT-ELECTRIC	2
810011	SLIDER NUT	2
810012	SCREW	4
810013	LOCKWASHER	4
810014	ENGINE MOUNTING PLATE-GAS	1
810015	GROUND STRAP	1
810016	HOUSING	1
810017	RUBBER ANTIVIBRATION MOUNTS	4
810018	SPACER	4
810019	CAGE HOUSING ASSM	1
810020	PULLEY	1
810021	SCREW	8
810022	LOCKWASHER	8
810023	END FLANGE ASSM	1
810024	SNAP RING	1
810025	RING SPACER	1
810026	FELT WASHER SM.	1
810027	DRIVE FLANGE	1
810028	BEARING COVER PLATE	1
810029	FELT WASHER LG.	1
810030	BEARING	1
810031	KEY	1
810032	DRIVE SPINDLE	1
810033	DRIVE FLANGE ASSM	1
810034	FELT WASHER	1

810035	BEARING-HEX ID	1
810036	END CAP FLANGE	1
810037	HEX DRIVE SHAFT	1
810038	SNAP RING	2
810039	FLAT WASHER	2
810040	FRONT WHEEL	2
810041	FRONT AXLE	1
820000	"A" CAGE ASSEMBLY	1
820001	SCREW	2
820002	SHAFT RETAINING PLATE	1
820003	CUTTER SHAFT	4
820004	LOCKNUT	2
820005	TYPE "A" CAGE	1
821000	"B" CAGE ASSEMBLY	1
820001	SCREW	2
820002	CAGE RETAINING PLATE	1
820003	CUTTER SHAFT	4
820004	LOCKNUT	2
821001	TYPE "B" CAGE	1
823000	EDGER CAGE ASSEMBLY	1
820004	LOCKNUT	2
823001	EDGER CAGE	1
823002	EDGER SHAFT	4
820002	SHAFT RETAINING PLATE	1
820001	SCREW	2
824000	EDGER ASSEMBLY	1
824001	EDGER GUARD	1
810022	LOCKWASHER	3
824002	BOLT	3
824003	EDGER GUARD	1
824004	EDGER DRIVE SHAFT	1



MC8 PARTS LIST 2



PART NO.	DESCRIPTION	QTY
810038	SNAP RING	2
810039	FLAT WASHER	2
830004	WHEEL	2
830005	WHEEL BUSHING	4
830006	REAR AXLE	1
830008	SCREW	2
830009	STAR WASHER	2
830010	STOP SWITCH	1
830011	HANDLE GRIPS	2
830012	LOCKWASHER	1
830013	SCREW	1
830014	STAR WASHER	4
830015	SCREW	4
830016	HANDLE	1
830017	SCREW	4
830018	LOCKWASHER	4
830019	HAND KNOB	1
830020	SCRE SHAFT	1
830021	BEARING	1
830022	BUSHING	1
830023	WAVE WASHER	1
830024	WASHER	1
830025	RETAINER	1
830026	CABLE ASSM	1
830027	SLIDE BUSHING	1
830028	PIN	1
830029	CABLE	1
830030	PULLEY	1
830031	LIFT PLATE	1
830032	PIN-LIFT PLATE	1
830033	FLAT WASHER	2
830034	SNAP RING	2
830035	LOCKNUT	1
830036	SPIRAL PIN	1
830037	WIRE ASSY	1
830038	TERMINAL SPLICE	1



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