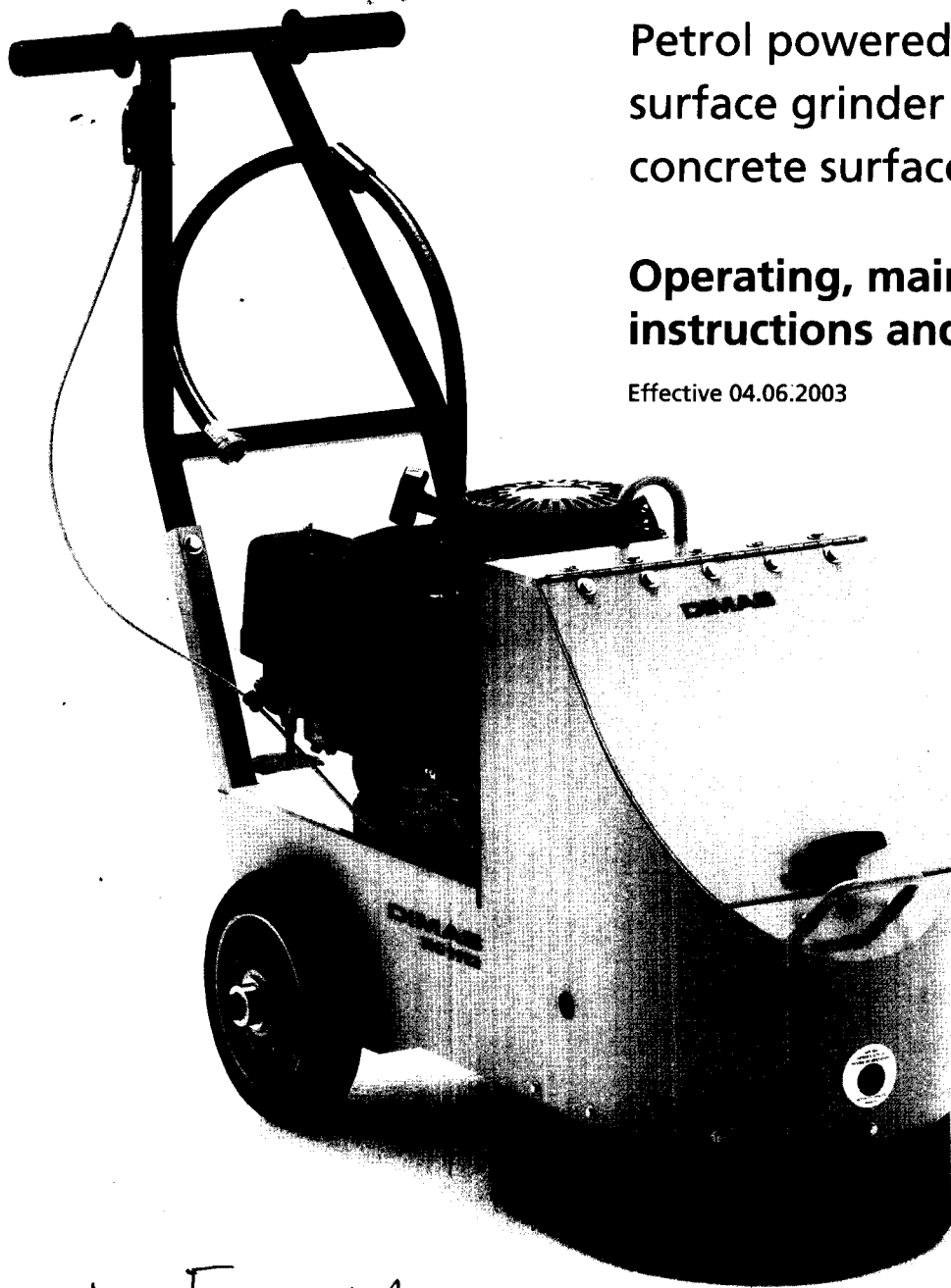

DIMAS

Cretemower RG 1112

Petrol powered diamond
surface grinder for
concrete surfaces.

**Operating, maintenance
instructions and parts list**

Effective 04.06.2003



Concrete Floor Mower

Plant # 05111001

Dimas Asia Pacific

25-31 Kinkaid Ave, North Plympton
Adelaide, South Australia 5037 Australia
PO Box 263, Plympton, South Australia 5038
TEL +61 8 8375 1000 FREE CALL 1800 241 461
FAX +61 8 8371 0990 FREE FAX 1800 066 476

EMAIL info@dimas.net.au

www.dimas.com.au

CONTENTS

A Few Words About Safety	6	Contents (Continued)	
Safety Messages		Technical and Consumer Information	18
Hazard Symbols	7	RG1112 Parts Lists	(19-22)
General Cautions	8	Controls and Features	(23-25)
Unpacking, Assembly and Preparation	9	Line Drawings	(26-30)
Unpacking		RG1112 Exploded View	
Contents of Carton		Hub Assembly Detail	
Assembly		Spindle Assembly Detail	
Before Starting (10-11)		Equipment Warranty	(31-32)
Selection of a proper Grinding Disc	10	Warranty Policy	31
Installation of the Grinding Disc	10	Limitations on Warranty	32
Engine	10	Quick Reference Guide	(33)
Oil	10	Notes	(34-35)
Oil Ambient Temperature Table			
Fuel	11		
Adding Fuel			
Fuel Lever Limit			
Fuel Tank Capacity			
Air Filter	11		
Inspection			
General Inspection			
Air Filter Inspection			
Water	11		
Starting (12-13)			
Cautions	12		
Fuel Valve on/off	12		
Operation	14		
How to operate			
Stopping The CG-11			
Maintenance	15		
Maintenance Schedule	16		
Importance Of Maintenance			
Helpful Tips and Suggestions	17		
Rotation of Grinding Head for Increasing Segment Life			
Technical and Consumer Information	18		

OPERATING INSTRUCTIONS

Warning

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

Keep this manual and the Honda GXV340K2DX3 engine manual handy, so you can refer to them at any time. These manuals are to be considered a permanent part of the RG1112 mini-grinder and should therefore remain with the machine if resold.

Introduction

Congratulations on your selection of Dimas RG1112 mini grinder. We are certain you will be pleased with your purchase of one of the finest mini-grinders on the market.

We want to help you get the best performance from your new machine and to operate it safely. This manual contains the information on how to do that. Please read this manual thoroughly, as it contains important information on operational safety, maintenance, and suggestions on how to get the best performance out of your RG1112 and diamond grinding head.


A FEW WORDS ABOUT SAFETY

The safe operation of mechanical equipment is partnership between the manufacturer and the person who operates it. At Dimas we take this partnership very seriously by designing our equipment to be the safest and the most reliable equipment available to do the job. To insure that both the performance and safety features of the equipment do the job, we work very closely with our partners to develop and implement strong maintenance and operator training programs. From design, to manufacture, to operation, to maintenance, it truly is the partnership that keeps the equipment running smoothly, efficiently, and most importantly, safety. Our equipment comes with comprehensive manual that covers operation, maintenance, parts and safety specific to the tool. Always read and fully understand all of the safety instructions given in the manual before operating the equipment.


Safety messages

A safety message informs you about potential hazards that could hurt you or others. Each safety message is preceded by one of the following three words: Danger, Warning, Or caution.


Danger

 You will be killed or seriously injured if you don't follow instructions.

Warning

 You can be killed or seriously injured if you don't follow instructions.

Caution

 You can be killed or seriously injured if you don't follow instructions.

Additional information as to the nature of the hazard is provided by the following hazards symbols, which appear throughout the manual in conjunction with safety messages alert symbols.

Hazard Symbols



Explosive fuel!

Gasoline is extremely flammable and its vapours can explode if ignited. Store gasoline only approved containers, in well-ventilated, unoccupied buildings, away from sparks or flames. Do not fill the tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Do not start the engine near spilled fuel. Never use gasoline as a cleaning agent.



Hot parts!

Engine components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running or immediately after it is turned off. Never operate the engine with heat shields or guards removed.



Rotating parts!

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the engine with covers, shrouds, or guards removed.



Lethal Exhaust gasses!

Engine exhaust gasses contain poisonous carbon monoxide. Carbon monoxide is odourless. Colourless can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.



Over speed!

Never tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.

A FEW WORDS ABOUT SAFETY

General cautions



Never attempt any adjustment or repair to the machine while the engine is running.



Never put hands or feet under the machine while the engine is running. Serious injury will occur.



Never run the engine in an unventilated area.



Never fill the gasoline tank with the engine running. Spilling gasoline on a hot engine may cause a fire or explosion.



Always wear safety glasses and ear protection when operating this machine.

UNPACKING & ASSEMBLY

Unpacking

Your Dimas RG1112 Cretemower has been from the factory assembled and requires only minimal service to insure proper machine preparation prior to use. Carefully remove carton, packing materials and the RG1112 from the shipping pallet. The mini-grinder has been thoroughly inspected and tested before shipping and should not require any additional adjustments prior to use. Check each item making certain that all items are accounted for and in good visual condition before discarding any packing materials.

If there are any damaged or missing parts call customer service on our toll free number: 1800 421 2222.

Contents of Carton

1. RG1112 Cretemower
2. Owner's Manual
3. Honda GXV340K2DX3 Engine Manual
4. Warranty Registration Card

Assembly

1. Remove two 15/64" 20 Bolts from frame handle retainer tube.
2. Slide the handle bars into the frame retaining tubes and align the holes at the desired height (Fig 1).
3. Re-Install 5/16" 18 Bolts into the frame handle retainer tube tighten (Fig 2).

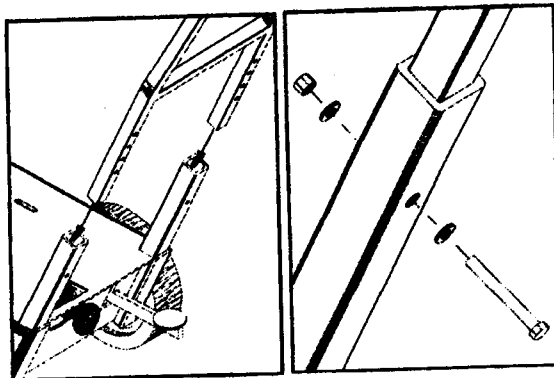
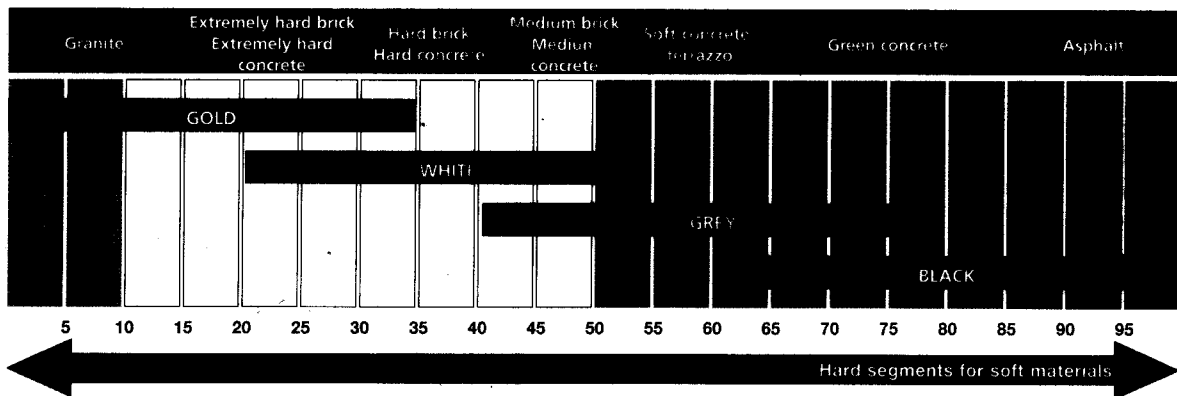


Figure 1

Figure 2

BEFORE STARTING

Select proper grinding disc using the following table:



Installing the grinding disc

The RG1112 is shipped without a diamond grinding disc. To install a grinding disc follow these steps:

1. Remove ballast weight (item #15)
2. Place Ballast weight on the ground in front of the machine.
3. Tilt the RG1112 backward and rest the lifter leg onto the top of the ballast weight so that the machine will stay in a backward tilt position. Place something behind the wheels so the grinder will not move.

Caution

DO NOT TILT MACHINE BACK AND REST ON THE HANDLES! THERE IS A HIGH POTENTIAL FOR A GAS OR OIL LEAK!

4. Loosen (do not remove) the seven bolts that hold the skirt retainer plate (item#18) and remove the rubber skirt (item#17).
5. Insert from the top, through the four holes in the mowing head mounting plate (item#31), four 3/8" - 24x 7/8" hex head bolts (item #49) with four 3/8" lock washers (item #50).
6. Secure the diamond grinding disc (item#51) with the above four bolts.
7. Insert the rubber skirt back under the skirt retainer plate.
8. Remove the ballast weight from under the lifter leg and set the machine upright.

9. Adjust the skirt to the desired height and re-tighten the seven bolts.

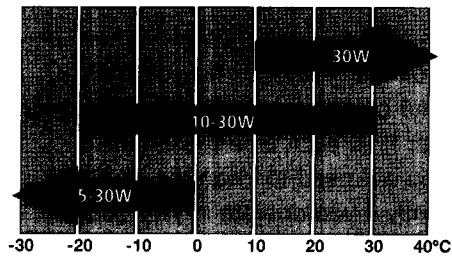
10. Set ballast weight back into the ballast weight container.

Engine

Oil

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SF,SG or equivalent. Always check the API SERVICE label on the oil container to be sure it includes the letters SF, SG or equivalent.

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.



Ambient temperature

BEFORE STARTING

Fuel

Use unleaded gasoline with a pump octane rating of 86 or higher. The engine on RG1112 is certified to operate on unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life.



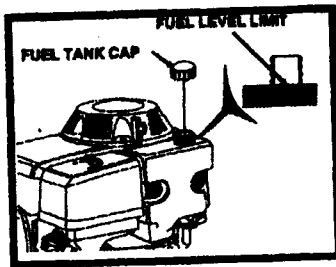
Warning

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. YOU CAN BE BURNED OR SERIOUSLY INJURED WHEN HANDLING FUEL.

1. Stop the engine and keep heat, sparks, and flame away.
2. Refuel only outdoors.
3. Wipe spills immediately.

Adding Fuel

1. Remove the fuel tank cap.
2. Add the fuel to the bottom of the fuel lever limit in the neck of the fuel tank. Do not over fuel before starting the engine. Fuel Tank capacity: 0.61 US gal. (2.3l)
3. Re-install the fuel tank cap.



Air Filter

A dirty air filter will restrict air flow to the carburetor and cause poor engine performance. Inspect the air filter each time the engine is operated. You will need to clean the air filter more frequently if you operate in very dusty areas.

NOTE: Operating the engine without an air filter will cause rapid wear and damage which is not covered under the warranty.

Inspection

General Inspection

Conduct a general inspect often. Look for fluid leaks and loose or damaged parts. Check for loose or damaged belts and for spindle end play regularly. If there is anything wrong do not operate! Call for service.

Air Filter Inspection:

1. Remove the wing nut, then remove the air cleaner cover. Be careful to prevent dirt and debris from falling into the air cleaner base opening.
2. Remove the air filter from the air cleaner base.
3. Remove the foam filter from the paper filter.
4. Inspect the paper and foam filters. Replace damaged filters Clean or replace dirty filters.

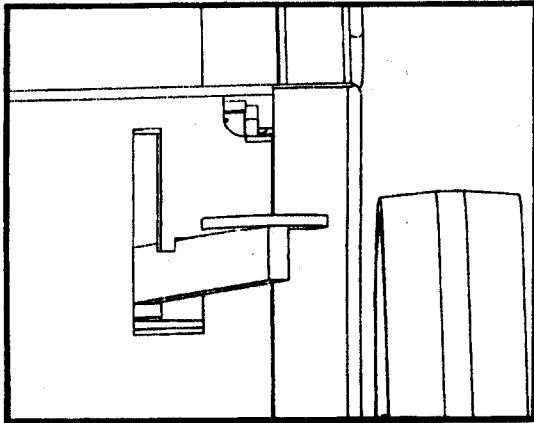
Water

Simply connect water supply hose to a water source, and adjust water flow rate with valve on the back of RG1112.

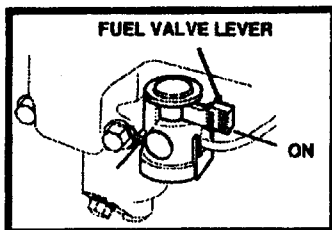
STARTING

Caution

1. Be sure the foot lever (item#37) is in the lowered position, causing the diamond grinding disc (item#51) to be disengaged from the floor. The image below illustrates the position that the air lifter leg pedal should be in before you start the engine. If you do not disengage the grinding head from the floor and try to start the RG1112 will have a tendency to rotate and could cause injury.



2. Place throttle lever in the choke position if you are starting a cold engine. If the engine is warm do not use the choke. Move the throttle lever slightly past the idle position.
3. Turn the fuel valve to the ON position (shown below).



4. Pull the starter grip lightly until resistance is felt, then pull briskly.



KEEP CLEAR OF GRINDING DISC
WHEN STARTING

5. Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

6. If the choke was used to start the engine, move the throttle to the fast or high position as soon as the engine warms up enough to run smoothly without the use of the choke.
7. Let the engine warm up at an idle for a minute or two before you increase the engine throttle and begin to grind. Running cold engine at high rpm will decrease the life of the engine.

OPERATION



Caution

1. Turn on the water. Never run the RG1112 without water. The water serves as a lubricant and coolant for extended grinding head life.
2. Carefully disengage foot lever (item#37) by letting it up to engage the grinding disc with the work surface.
3. Slowly move RG1112 over the area to be ground.
4. To vary the grinding head speed adjust the throttle to vary the depth of cut, the axle (item#42) can be moved forward or backward to change the downward force on the grinding head. If extremely light cuts are desired, remove ballast weight (item#15) from the machine. For details on how to move the axle refer to page 24 of this manual.

Stopping the RG1112

1. Push the foot lever down and over to latch. This lifts the grinding head clear of the work surface.
2. Turn the water OFF.
3. Idle engine for a few minutes to cool down, then slide the throttle lever to stop position till the engine comes to stop.
4. Close fuel valve.



Caution


THE SURFACE TEMPERATURE OF THE ENGINE IS EXTREMELY HOT. AVOID TOUCHING.

MAINTENANCE

1. Refer to Honda GXV340K2DX3 Engine Manual (provide with the RG1112 Cretemower) for periodic engine maintenance.
2. Spindle hub (item#26) is factory packed with grease. Every 20 hours of operation, re-grease with a small amount of any lithium based grease. Do not over grease. It is possible to blow the two seal (item#23).
3. Periodically check for loose hardware and belt wear. To check for belt wear, remove the ballast weight (item#15) and the two bolts that hold the ballast weight plate. Remove the ballast weight plate and look at the belt for tears and or excessive wear. Replace if necessary.
4. Periodically check spindle assembly for end play. There should be NO END PLAY. Adjustments are made by loosening bushing on sheave and driving sheave (item#2) down. Re-align sheave with the engine sheave, and re-tighten.

The importance of maintenance

Good maintenance is essential for safe and trouble free operation. To help you properly care for your Honda powered RG1112; the following maintenance schedule was prepared.

 The black box marks the interval when the maintenance should take place. Additional numbers or symbols that are in the black boxes are keyed at the bottom of the page.

HELPFUL TIPS & SUGGESTIONS

To obtain maximum grinding disc use and performance, the disc must be removed and rotated 180° in relation to the drive shaft, and reinstalled after every four hours of grinding.

Please refer to figure 3 adjacent. If the grinding head is in this orientation (A) with respect to the drive shaft remove it and rotate it 180° (figure 4). Make sure that the drive shaft is not moved during this process then, re-install.

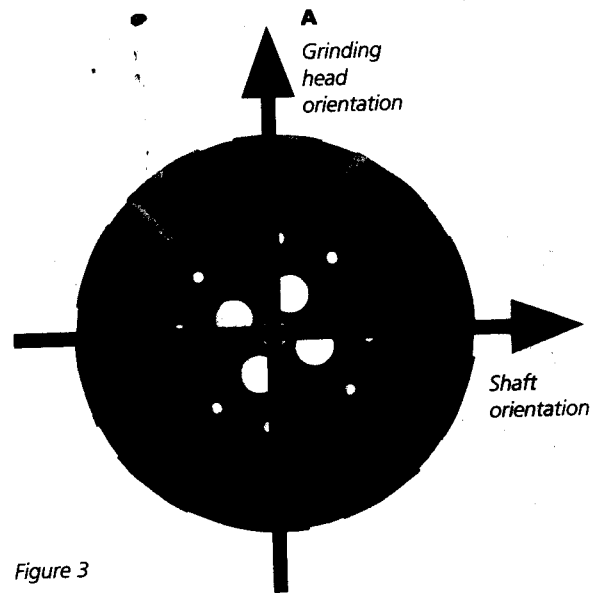


Figure 3

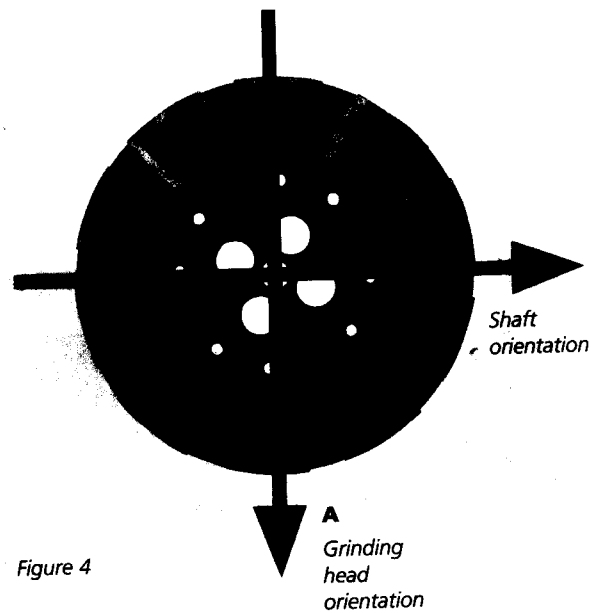


Figure 4

TECHNICAL & CONSUMER INFORMATION

Length	978 mm
Width	559 mm
Height	673 mm
Dry Weight	282 ib (including 35 ib ballast weight)
Engine Type	Honda GXV340K2DX3, 11 HP Vertical Shaft Engine
Fuel Type	Unleaded Gasoline with a pump octane rating of 86 or higher
Fuel Capacity	0.61 US gal., 2.3 Litre
Fuel Consumption	0.51 ib/hph, 340g/kWh
Cooling System	Forced Air
Oil Capacity	1.16US qt.,(1.1Litre), 1.48 US qt. (1.4 litre) w/oil filter

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	531210300	Drive Belt, 3VX400	3
2	531210301	Sheave, 3GR3V5.60	1
3	531210302	Bushing, SDS x 1	1
4	531210303	Seal Spacer	1
5	531210304	Throttle Control	1
6	531210305	Engine, 11 HP. Honda Vertical Shaft	1
7	531210306	Handle Assembly	1
8	531210307	Hose, Water	1
9	531210308	Water Hose Connector	1
10	531210309	Reducer Bushing 1/3" x 3/8"	1
11	531210310	Sheave, 3GR3V3.00	1
12	531210311	Bushing, SH x 1	1
13	531210312	Ballast Support	1
14	531210313	Cowl Assembly	1
15	531210314	Ballast Weight	1
16	531210315	Hole Plug	1
17	531210316	Skirt, Front	1
18	531210317	Skirt Retainer	1
19	531210318	Grease Fitting	1
20	531210319	Fitting, 1.8" Pipe x 3/16" Tube	1
21	531210320	1/8" Pipe Coupling	1
22	531210321	1/8" Nipple	1
23	531210322	Seal	2
24	531210323	Bearing Cup & Cone	2
25	531210324	Hub Assembly (Includes Bearings & One Seal)	1
26	531210325	Spindle Assembly	1
27	531210326	Flex Coupling Assembly - Incl. Hardware	1
28	531210327	Flat Head 3/8" 2-1/2"	2
29	531210328	Locknut 3/8"-16	4
30	531210329	Bolt, Hex Head 3/8"-16x2-1/2"	2
31	531210330	Mowing Head Mounting Plate	1
32	531210331	1/4" Nipple	1
33	531210332	Frame	1
34	531210333	Water Valve	1
35	531210334	1/2" Nipple	1
36	531210335	Reducer Bushing 1/2" x 1/8"	1
37	531210336	Lifter Lever Assembly	1
38	531210337	Water Tube	1
39	531210338	Lifter Leg Assembly	1
40	531210339	Pivot Bolt-Lifter Leg Assembly	2
41	531210340	Locknut, 1/2"-13	2
42	531210341	Axle Assembly	1
43	531210342	Wheels	2
44	531210343	Skirt, Rear	1
45	531210344	Lifter Spring	2

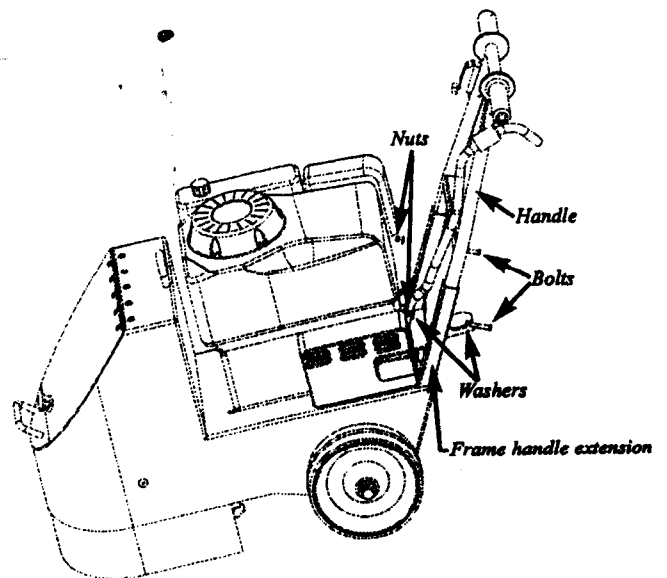
PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
46	531210345	Tube Clamp	2
47	531210346	1/4" Square x 1-1/2" Key	2
48	531210347	Cap push Nut	2
49	531210348	Screw, Hex Head 3/8"-24-7/8"	4
50	531210349	3/8" Lockwasher	4
51	531210350	Grinding Head*	0
52	531210351	Locknut 1/2" - 20	4
53	531210352	Lockwasher 1/2"	1
54	531210353	SAE Washer 1"	4
55	531210354	LockwasherFu 1/4"	2
56	531210355	Hex Nut 1/4"-20	2
57	531210356	Bolt, hex Head 1/2 - 13 x 2 - 1/2"	1
58	531210357	Lockwasher 5/16"	5
59	531210358	Hex Nut 5/16" - 18"	2
60	531210359	SAE Washer 5/16"	5
61	531210360	Bolt Hex Head 1/2" - 13 x 2"	2
62	531210361	Bolt Hex Head 5/16" - 18 x 1 - 3/4"	2
63	531210362	Bolt Hex Head 5/16 - 18 x 3/4"	5
64	531210363	Lockwasher #10	2
65	531210364	Locknut 5/16 - 18	6
66	531210365	Jam Nut 1/2" - 13	2
67	531210366	Hex Nut 10 - 32	2
68	531210367	Bolt Hex Head 5/16" - 18 x 2 - 1/2"	4
69	531210368	Machine Screw Flat Head - Slotted 1/4" - 20 x 1/2"	2
70	531210369	Machine Screw Round Head - Slotted 10 - 32 x 1 - 1/4"	2
71	531210370	Wheels Collar	2
72	531210371	Decal - "Caution"	1
73	531210372	Decal - "Ballast Weight"	1
74	531210373	Decal - "Grease Daily"	1
75	531210374	T-Handle/Hood Latch	1

CONTROLS & FEATURES

Adjustable Handles

Remove nuts, bolts and washers from frame handle extension bars. After bolts are removed, move the handle up or down to desired position. Align nearest holes and replace the hardware.



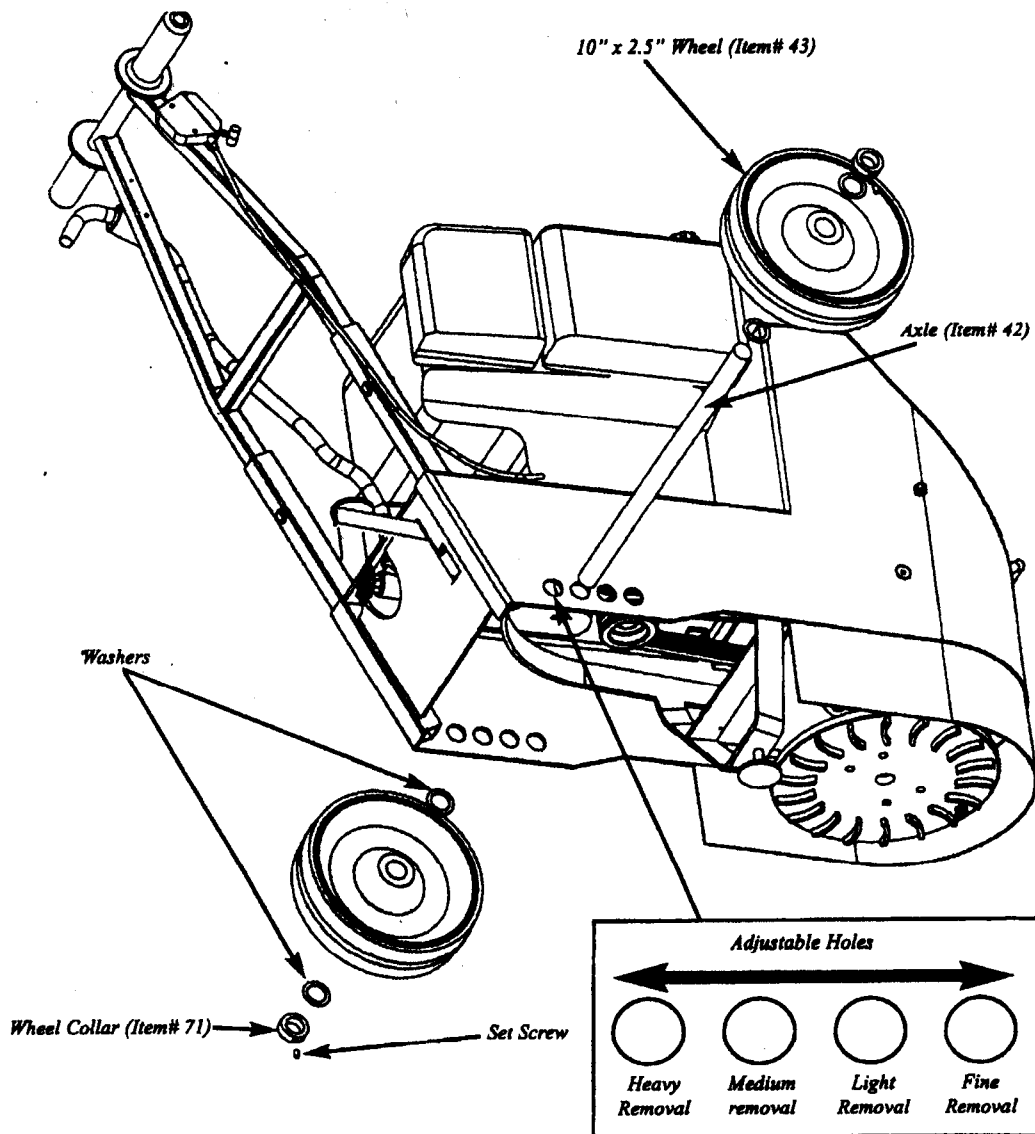
Belt Change

1. Open hood latch and then the hood. Remove ballast weight.
2. Remove the two bolts that mount the ballast weight plate. Remove the plate itself.
3. Loosen (DO NOT REMOVE) the four bolts that mount the Honda engine.
4. Loosen the two bolts on the back of the engine tensioning plate.
5. Push the engine towards the front of the machine.
6. Remove belts from sheave.
7. Install new 3VX400 belt and reverse the process.

CONTROLS & FEATURES

Adjustable axle

The RG1112 has a moveable axle, which allows for varied loads on the grinding head. This ability makes the RG1112 suited for just about any application from heavy removal to polishing. To move the axle simply back off the wheel collar's set screw and remove the collar, washers, wheels and axle. When the desired position is determined replace the axle in the appropriate frame hole and begin grinding.



CONTROLS & FEATURES

Removable Ballast Weight

Figure 1

Turn hood latch to unlock hood.

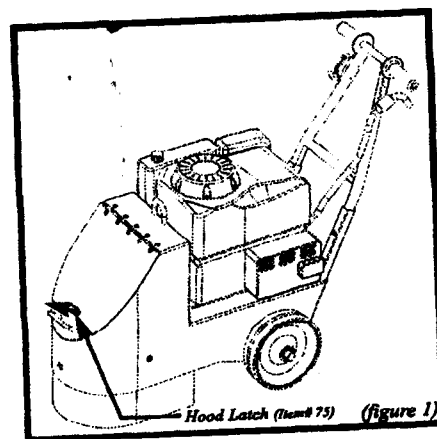


Figure 2

Pull on "T" – Handle and open hood to expose ballast weight container. The hood is designed to rest against the lifting hook when fully opened. The hood is made from a heavy gauge steel and could cause injury if it falls.

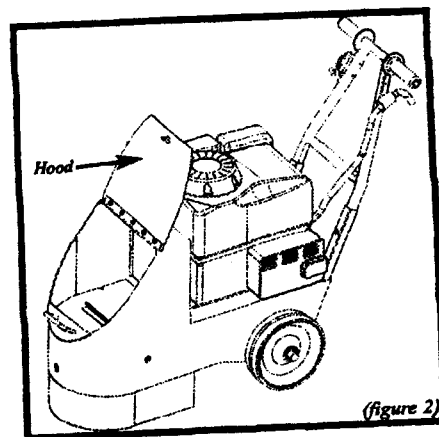


Figure 3

Place the ballast weight on the ballast weight plate and behind the locating angle bracket (as shown in figure 4). The angle bracket keeps the ballast weight from sliding front to back.

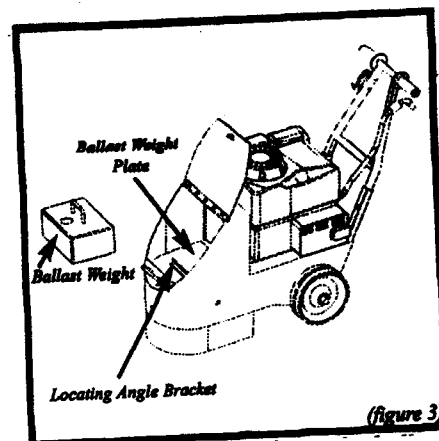
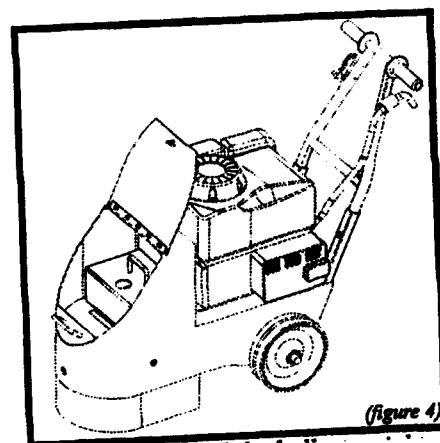
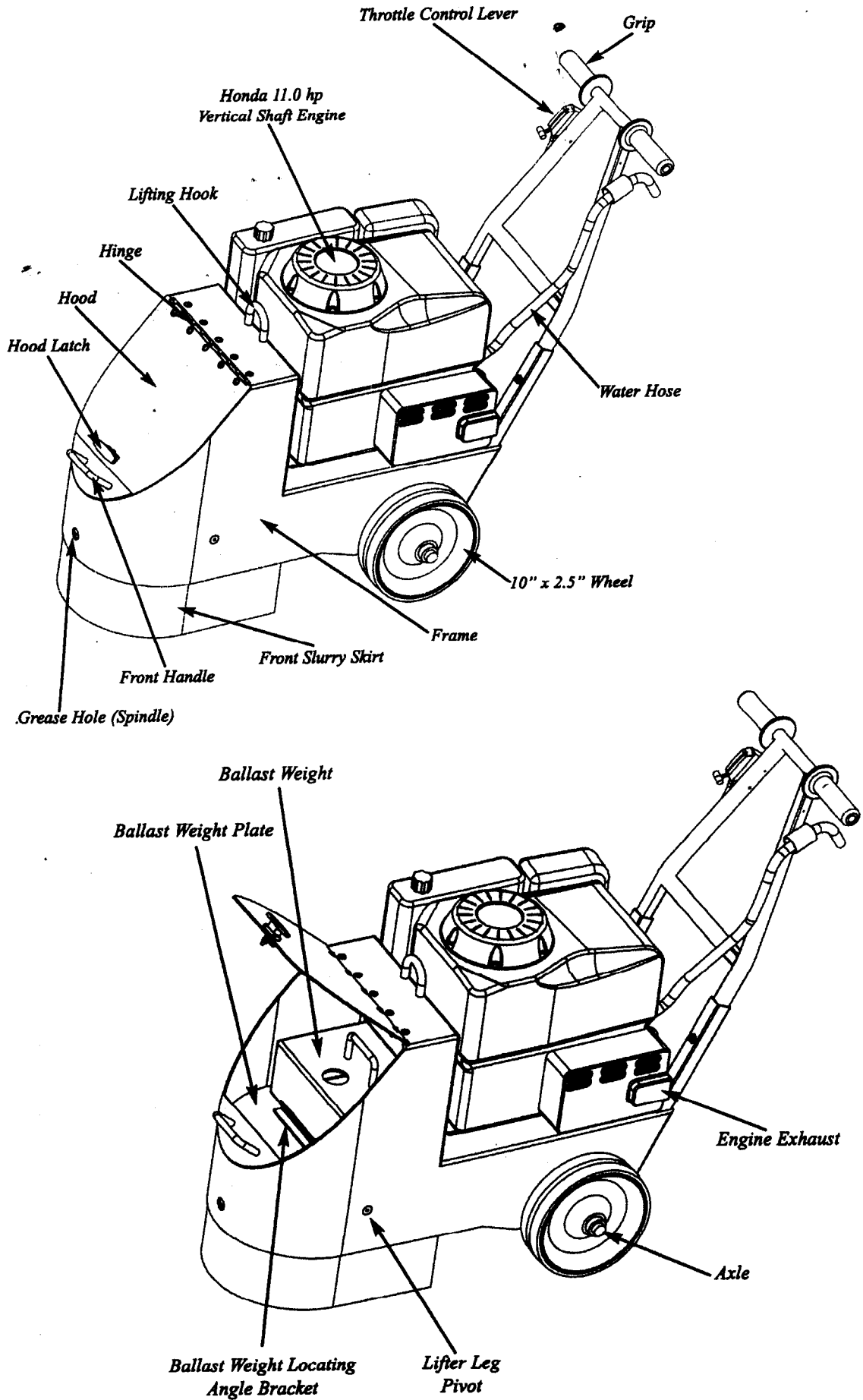


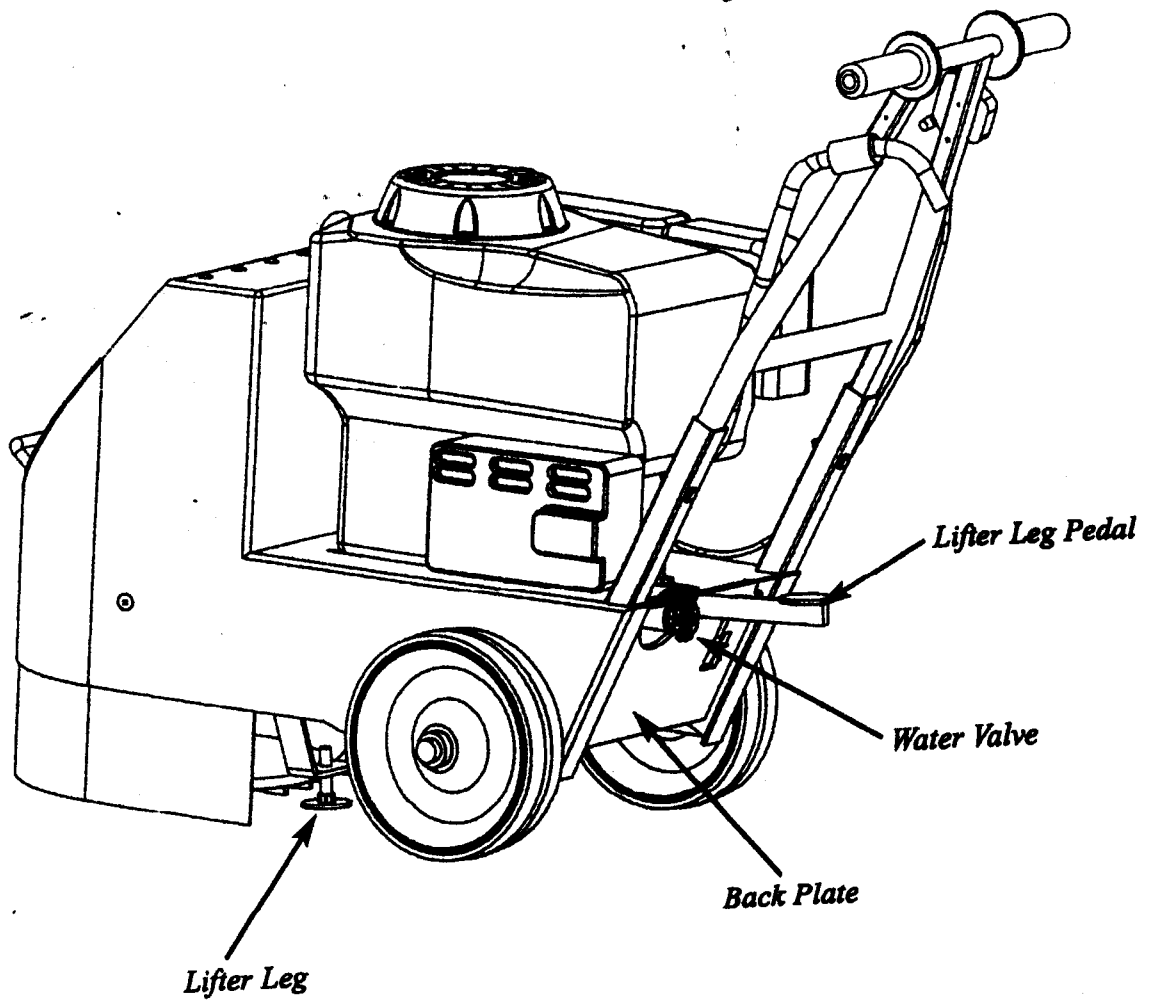
Figure 4

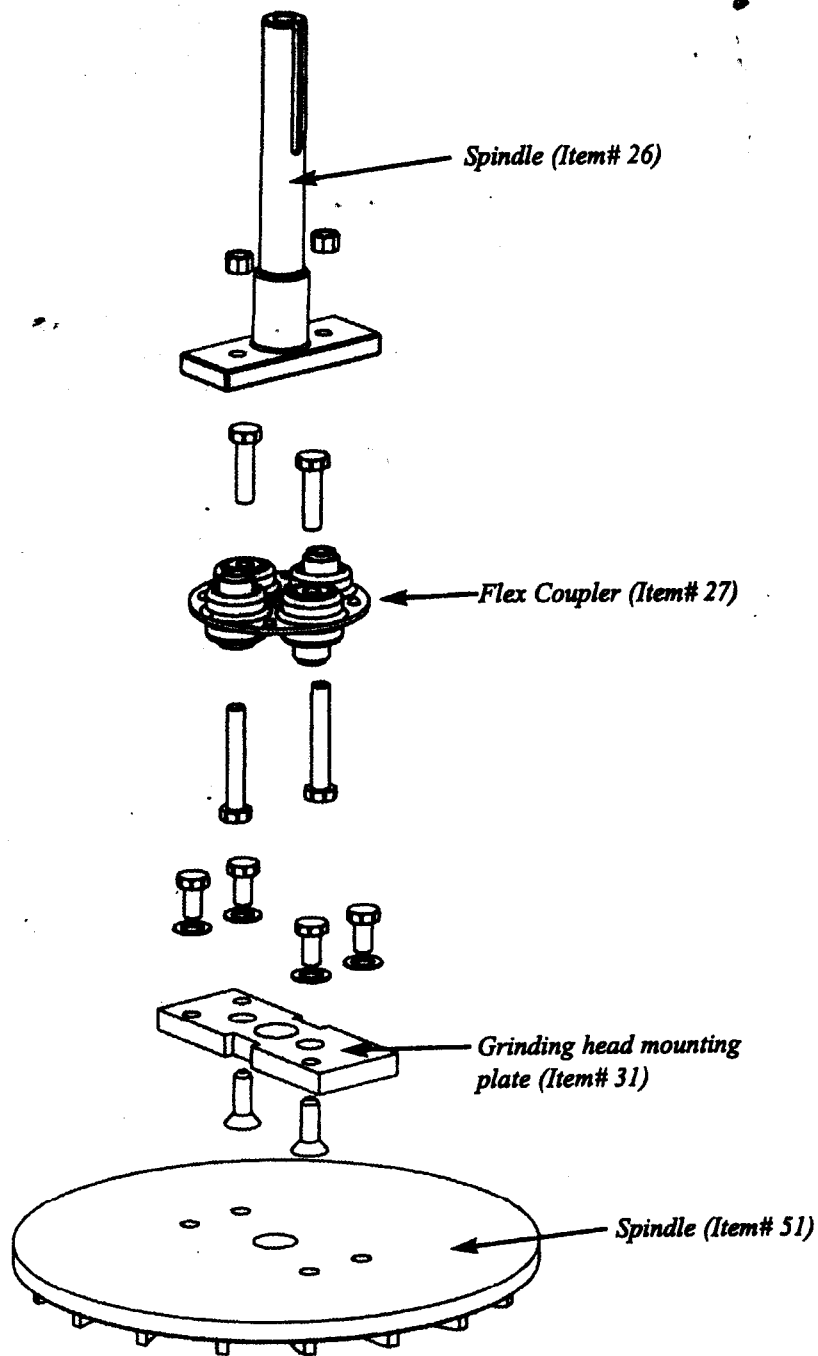
Do not overload the ballast weight container, the machine is not designed to carry any additional weight. Before operating your RG1112 close and re-latch the hood.



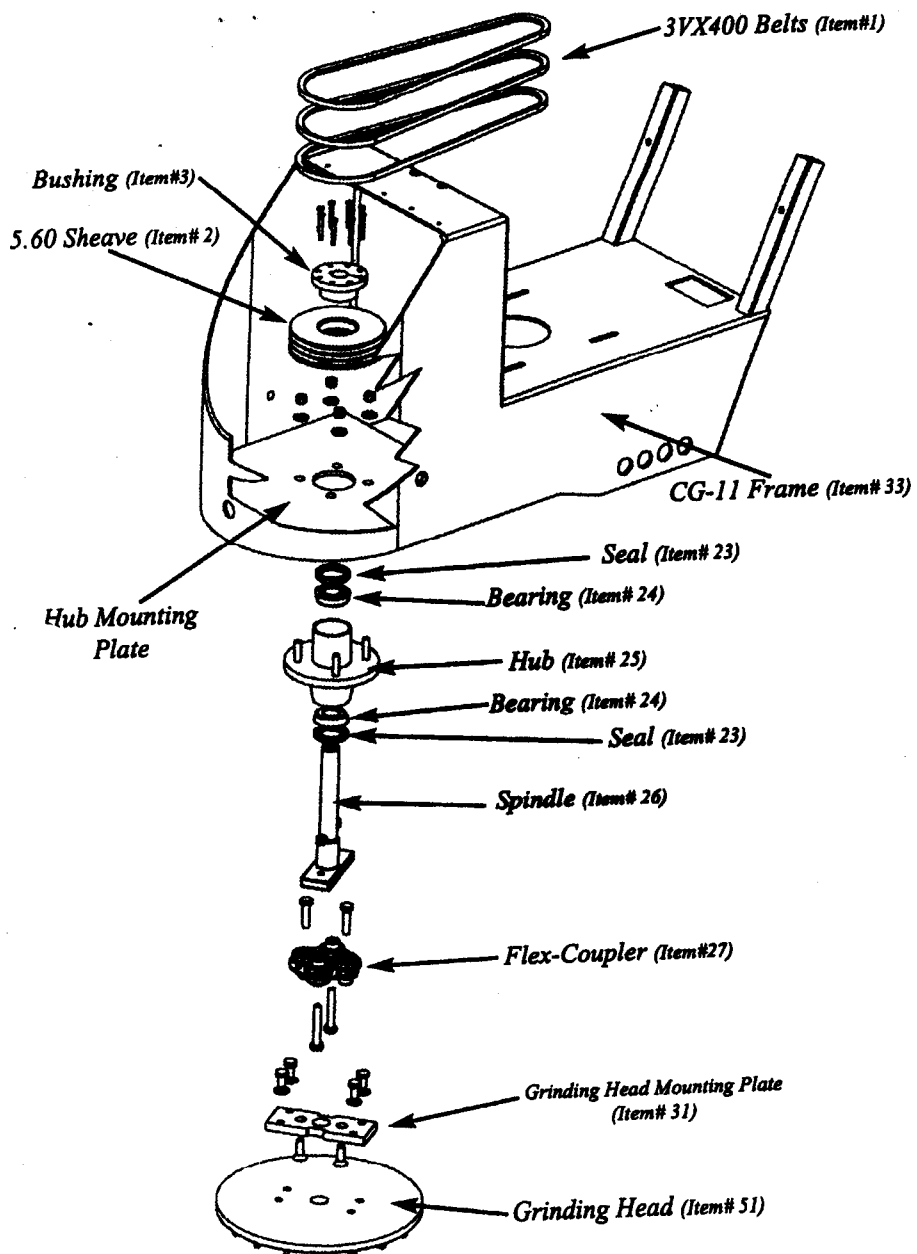
TECHNICAL DRAWINGS







TECHNICAL DRAWINGS



WARRANTY

Dimas Australia Pty Ltd warrants to the original purchaser that each new pavement saw manufactured by it to be free, under normal use and service, from defects in material and workmanship for a period of one (1) year after the date of first use by the original purchaser.

Dimas Australia Pty Ltd's responsibility under this limited warranty shall be limited to the repair or replacement, at Dimas Australia Pty Ltd's option, or any part or parts that were manufactured by Dimas Australia Pty Ltd and which upon examination are found, in Dimas Australia Pty Ltd's sole judgement, to have been defective in materials or workmanship. The original purchaser is responsible for all labor charges in connection with any warranty work. It shall be a condition of Dimas Australia Pty Ltd's obligation under this warranty claim that the part of parts claim to be defective be promptly delivered, labour borne by transportation prepaid be the original purchaser, to Dimas Australia Pty Ltd's factory in Adelaide, South Australia, Australia, for inspection or repair.

The repair or replacement of any part or parts under this limited warranty shall not extend the term of the equipment warranty beyond the term set forth above.

Limitations and exclusions:

This limited warranty shall not apply to:

- A. Any equipment which may have been subject to negligence, misuse, accident or misapplication.
- B. Any equipment that has been repaired or modified by anyone in a manner, which, in Dimas Australia sole judgement adversely affects the equipment's performance or reliability.
- C. Any equipment that has been modified or repaired with parts or components not manufactured or approved by Dimas Australia which, in Dimas Australia sole judgement adversely affects the equipment's performance or reliability.
- D. Maintenance parts and services including, but not limited to, replacement of service items, (i.e. filters, engine and hydraulic oils, grease, and belting, etc).

In no event shall Dimas Australia be liable for consequential damages arising out of failure of the saw to operate properly or resulting from the loss of the use of the saw.

Integral parts or units such as gasoline or diesel engine, electric motors, hydraulic components, transmission, etc. furnished by Dimas Australia but not manufactured by Dimas Australia are excluded from this warranty and will carry only the warranty of the manufacturer.

THIS WARRANTY IS IN THE LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

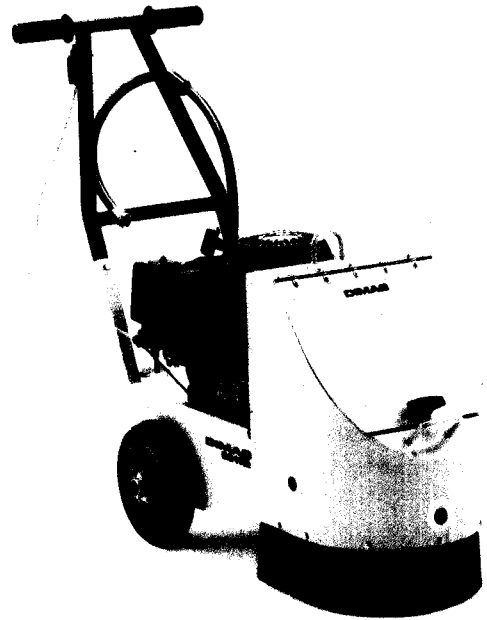
QUICK REFERENCE GUIDE

Fuel	Type	Unleaded Gasoline with a pump octane rating of 86 or higher
	Capacity	0.61 US gal., 2.3 Litres
Engine Oil	Type	SAE 10W - 30, API SF or SG, general use
	Capacity	1.16 US qt (1.1 litre), 1.48 US qt (1.4 Litre) w/oil filter
Spark Plug	Type	NGK: BPR5ES or NIPPON DENSO: W16EPR-U
	Capacity	0.70 - 0.80mm (0.028 - 0.031 in)
Engine maintenance	Before each use	Check oil level, air filter and fuel hose
	First 20 hours of use	Re-grease spindle with lithium grease and change engine oil.
	Subsequent Hours	Service Air filter after 3 months. Change engine oil and clean and adjust spark plug every 6 months. Replace oil filter, air filter, and spark plug after 100 hours or one year of use.
Spindle maintenance	Before each use	Check for End Play. There should be none.
	First 20 hours of use	Grease with a small amount of any lithium based grease.
Grinding Head Rotation	Every 4 hours	Remove and rotate grinding head 180 degrees in relation to drive shaft.
Cleaning	After every use	Hose down grinding head area under cowling.

DIMAS

Plant Hazard Assessment

Electrolux Construction
Products Pty Ltd
25-31 Kinkaid Avenue
North Plympton
South Australia 5037
TEL +61 8 8375 1000
FREE CALL 1800 241 461
FAX +61 8 8371 0990
FREE FAX 1880 066 476
EMAIL info@dimas.net.au
www.dimas.com.au



Concrete Floor Mower

Plant # 05111001

PART
CODE RG-1112

DESCRIP
TION DIMAS 11HP PETROL CRETEMOWER

DATE 19/09/2003

A. Entanglement

Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?	Ensure operator is made aware of safety regulations and operating procedures.
---	---

B. Crushing : Can anyone be crushed due to:

Uncontrolled or unexpected movement of the plant or its load?	Do not leave machine unattended when engine is running.
Lack of capacity for the plant to be slowed, stopped or immobilized?	As above.
The plant tipping or rolling over?	Ensure operator is made aware of operating instructions and safety procedures.
Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?	Ensure operator is made aware of operating instructions and safety procedures.

C. Cutting, Stabbing and Puncturing

Can anyone be cut, stabbed, or punctured due to:

Coming in contact with sharp or flying objects?	Ensure all relevant safety equipment is supplied and worn.
Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?	Ensure all relevant safety equipment is supplied and worn.
The plant, parts of the plant or work pieces disintegrating?	Ensure all relevant safety equipment is supplied and worn.
Work pieces being ejected?	Ensure all relevant safety equipment is supplied and worn.
The mobility of the plant?	Ensure all relevant safety equipment is supplied and worn.

E. Friction

Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant?	Ensure all moving parts are guarded.
--	--------------------------------------

F. Striking

Can anyone be stuck by moving objects due to:

Uncontrolled or unexpected movement of the plant or material handled by the plant?	Ensure all relevant safety equipment is supplied and worn.
The plant, parts of the plant or work piece disintegrating?	Ensure all guards are in place and in good condition.
Work pieces being ejected?	Ensure all relevant safety equipment is supplied and worn.

I. Explosion

Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?	Ensure motor is switched off and allowed to cool before refueling.
--	--

J. Slipping, Tripping and Falling

Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:

Uneven or slippery work surfaces?	Care should be taken due to the presence of water/slurry on the work surface.
Poor housekeeping, eg. swarf in the vicinity of the plant, spillage not cleaned up?	Ensure slurry is removed periodically during grinding.
Obstacles being placed in the vicinity of the plant?	Work area to be inspected prior to commencing operation.

H. Ergonomic

Can anyone be injured due to:

Lack of consideration given to human error or human behavior?	Ensure operator is made aware of safety procedures and operating instructions.
Other factors not mentioned?	Ensure handles are at correct height for operator.

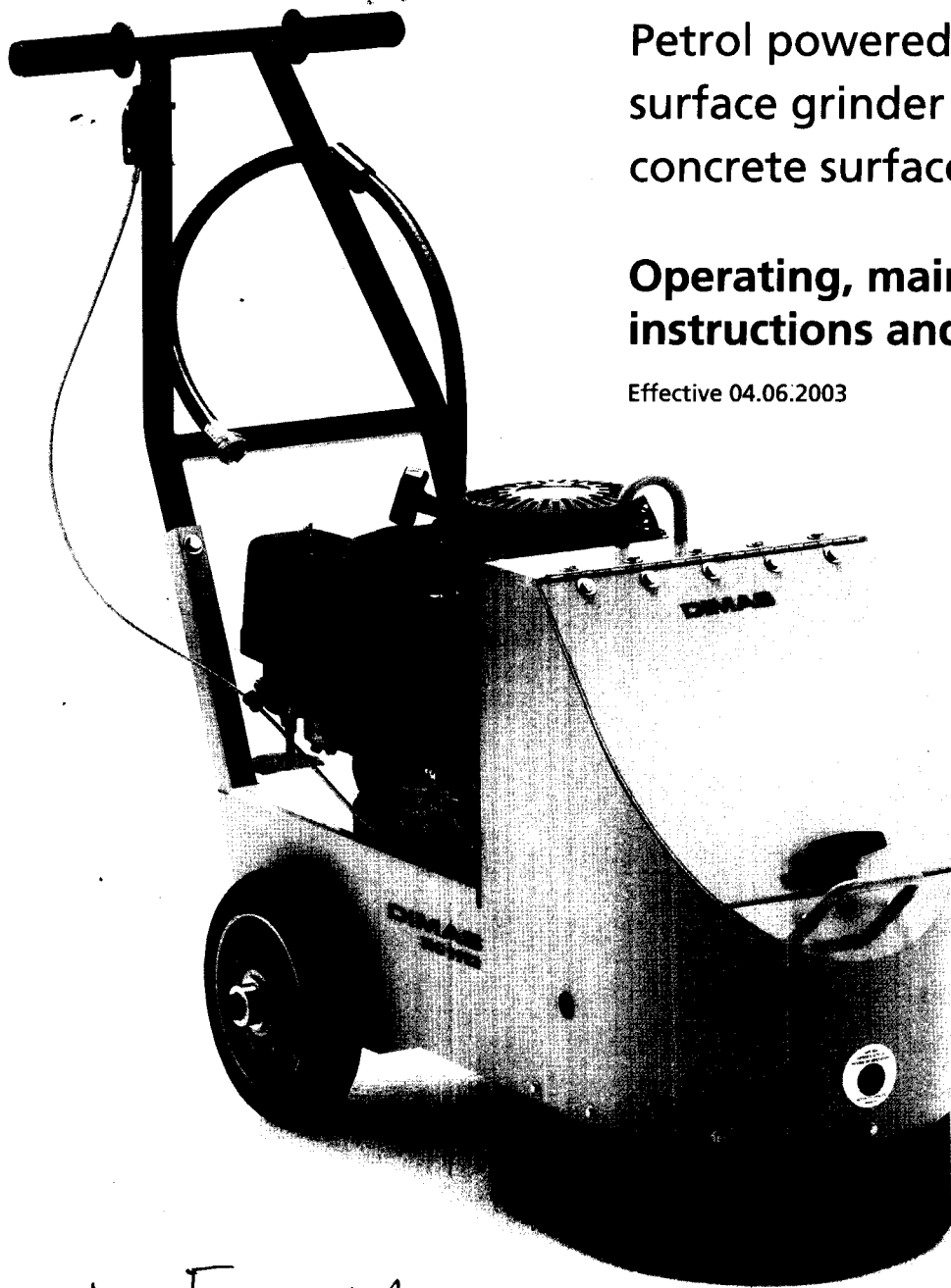
DIMAS

Cretemower RG 1112

Petrol powered diamond
surface grinder for
concrete surfaces.

**Operating, maintenance
instructions and parts list**

Effective 04.06.2003



Concrete Floor Mower

Plant # 05111001

Dimas Asia Pacific

25-31 Kinkaid Ave, North Plympton
Adelaide, South Australia 5037 Australia
PO Box 263, Plympton, South Australia 5038
TEL +61 8 8375 1000 FREE CALL 1800 241 461
FAX +61 8 8371 0990 FREE FAX 1800 066 476

EMAIL info@dimas.net.au

www.dimas.com.au

CONTENTS

A Few Words About Safety	6	Contents (Continued)	
Safety Messages		Technical and Consumer Information	18
Hazard Symbols	7	RG1112 Parts Lists	(19-22)
General Cautions	8	Controls and Features	(23-25)
Unpacking, Assembly and Preparation	9	Line Drawings	(26-30)
Unpacking		RG1112 Exploded View	
Contents of Carton		Hub Assembly Detail	
Assembly		Spindle Assembly Detail	
Before Starting (10-11)		Equipment Warranty	(31-32)
Selection of a proper Grinding Disc	10	Warranty Policy	31
Installation of the Grinding Disc	10	Limitations on Warranty	32
Engine	10	Quick Reference Guide	(33)
Oil	10	Notes	(34-35)
Oil Ambient Temperature Table			
Fuel	11		
Adding Fuel			
Fuel Lever Limit			
Fuel Tank Capacity			
Air Filter	11		
Inspection			
General Inspection			
Air Filter Inspection			
Water	11		
Starting (12-13)			
Cautions	12		
Fuel Valve on/off	12		
Operation	14		
How to operate			
Stopping The CG-11			
Maintenance	15		
Maintenance Schedule	16		
Importance Of Maintenance			
Helpful Tips and Suggestions	17		
Rotation of Grinding Head for Increasing Segment Life			
Technical and Consumer Information	18		

OPERATING INSTRUCTIONS

Warning

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

Keep this manual and the Honda GXV340K2DX3 engine manual handy, so you can refer to them at any time. These manuals are to be considered a permanent part of the RG1112 mini-grinder and should therefore remain with the machine if resold.

Introduction

Congratulations on your selection of Dimas RG1112 mini grinder. We are certain you will be pleased with your purchase of one of the finest mini-grinders on the market.

We want to help you get the best performance from your new machine and to operate it safely. This manual contains the information on how to do that. Please read this manual thoroughly, as it contains important information on operational safety, maintenance, and suggestions on how to get the best performance out of your RG1112 and diamond grinding head.


A FEW WORDS ABOUT SAFETY

The safe operation of mechanical equipment is partnership between the manufacturer and the person who operates it. At Dimas we take this partnership very seriously by designing our equipment to be the safest and the most reliable equipment available to do the job. To insure that both the performance and safety features of the equipment do the job, we work very closely with our partners to develop and implement strong maintenance and operator training programs. From design, to manufacture, to operation, to maintenance, it truly is the partnership that keeps the equipment running smoothly, efficiently, and most importantly, safety. Our equipment comes with comprehensive manual that covers operation, maintenance, parts and safety specific to the tool. Always read and fully understand all of the safety instructions given in the manual before operating the equipment.


Safety messages

A safety message informs you about potential hazards that could hurt you or others. Each safety message is preceded by one of the following three words: Danger, Warning, Or caution.


Danger

 You will be killed or seriously injured if you don't follow instructions.

Warning

 You can be killed or seriously injured if you don't follow instructions.

Caution

 You can be killed or seriously injured if you don't follow instructions.

Additional information as to the nature of the hazard is provided by the following hazards symbols, which appear throughout the manual in conjunction with safety messages alert symbols.

Hazard Symbols



Explosive fuel!

Gasoline is extremely flammable and its vapours can explode if ignited. Store gasoline only approved containers, in well-ventilated, unoccupied buildings, away from sparks or flames. Do not fill the tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Do not start the engine near spilled fuel. Never use gasoline as a cleaning agent.



Hot parts!

Engine components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running or immediately after it is turned off. Never operate the engine with heat shields or guards removed.



Rotating parts!

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the engine with covers, shrouds, or guards removed.



Lethal Exhaust gasses!

Engine exhaust gasses contain poisonous carbon monoxide. Carbon monoxide is odourless. Colourless can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.



Over speed!

Never tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.

A FEW WORDS ABOUT SAFETY

General cautions



Never attempt any adjustment or repair to the machine while the engine is running.



Never put hands or feet under the machine while the engine is running. Serious injury will occur.



Never run the engine in an unventilated area.



Never fill the gasoline tank with the engine running. Spilling gasoline on a hot engine may cause a fire or explosion.



Always wear safety glasses and ear protection when operating this machine.

UNPACKING & ASSEMBLY

Unpacking

Your Dimas RG1112 Cretemower has been from the factory assembled and requires only minimal service to insure proper machine preparation prior to use. Carefully remove carton, packing materials and the RG1112 from the shipping pallet. The mini-grinder has been thoroughly inspected and tested before shipping and should not require any additional adjustments prior to use. Check each item making certain that all items are accounted for and in good visual condition before discarding any packing materials.

If there are any damaged or missing parts call customer service on our toll free number: 1800 421 2222.

Contents of Carton

1. RG1112 Cretemower
2. Owner's Manual
3. Honda GXV340K2DX3 Engine Manual
4. Warranty Registration Card

Assembly

1. Remove two 15/64" 20 Bolts from frame handle retainer tube.
2. Slide the handle bars into the frame retaining tubes and align the holes at the desired height (Fig 1).
3. Re-Install 5/16" 18 Bolts into the frame handle retainer tube tighten (Fig 2).

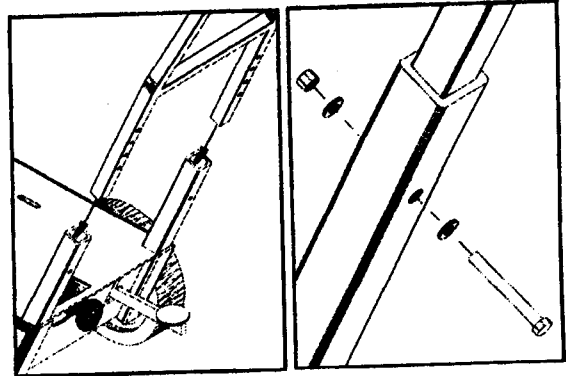
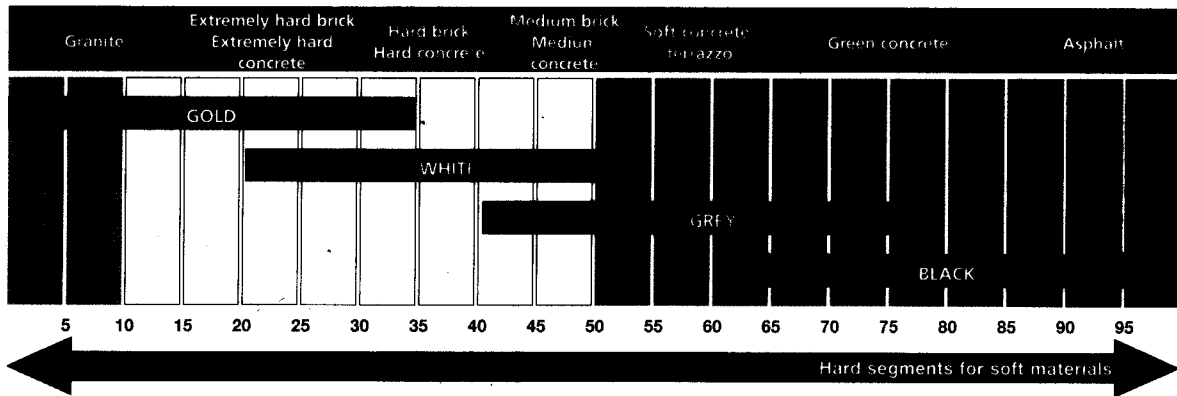


Figure 1

Figure 2

BEFORE STARTING

Select proper grinding disc using the following table:



Installing the grinding disc

The RG1112 is shipped without a diamond grinding disc. To install a grinding disc follow these steps:

1. Remove ballast weight (item #15)
2. Place Ballast weight on the ground in front of the machine.
3. Tilt the RG1112 backward and rest the lifter leg onto the top of the ballast weight so that the machine will stay in a backward tilt position. Place something behind the wheels so the grinder will not move.

Caution

DO NOT TILT MACHINE BACK AND REST ON THE HANDLES! THERE IS A HIGH POTENTIAL FOR A GAS OR OIL LEAK!

4. Loosen (do not remove) the seven bolts that hold the skirt retainer plate (item#18) and remove the rubber skirt (item#17).
5. Insert from the top, through the four holes in the mowing head mounting plate (item#31), four 3/8" - 24x 7/8" hex head bolts (item #49) with four 3/8" lock washers (item #50).
6. Secure the diamond grinding disc (item#51) with the above four bolts.
7. Insert the rubber skirt back under the skirt retainer plate.
8. Remove the ballast weight from under the lifter leg and set the machine upright.

9. Adjust the skirt to the desired height and re-tighten the seven bolts.

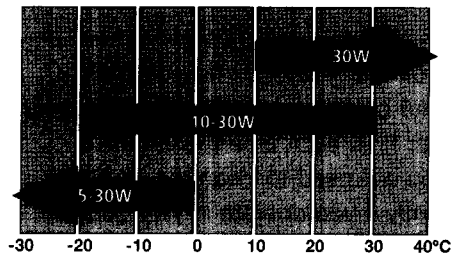
10. Set ballast weight back into the ballast weight container.

Engine

Oil

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SF,SG or equivalent. Always check the API SERVICE label on the oil container to be sure it includes the letters SF, SG or equivalent.

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.



Ambient temperature

BEFORE STARTING

Fuel

Use unleaded gasoline with a pump octane rating of 86 or higher. The engine on RG1112 is certified to operate on unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life.



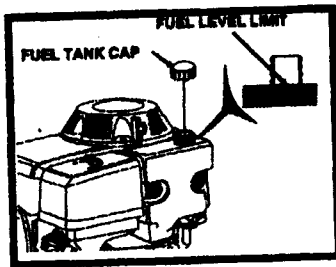
Warning

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. YOU CAN BE BURNED OR SERIOUSLY INJURED WHEN HANDLING FUEL.

1. Stop the engine and keep heat, sparks, and flame away.
2. Refuel only outdoors.
3. Wipe spills immediately.

Adding Fuel

1. Remove the fuel tank cap.
2. Add the fuel to the bottom of the fuel lever limit in the neck of the fuel tank. Do not over fuel before starting the engine. Fuel Tank capacity: 0.61 US gal. (2.3l)
3. Re-install the fuel tank cap.



Air Filter

A dirty air filter will restrict air flow to the carburetor and cause poor engine performance. Inspect the air filter each time the engine is operated. You will need to clean the air filter more frequently if you operate in very dusty areas.

NOTE: Operating the engine without an air filter will cause rapid wear and damage which is not covered under the warranty.

Inspection

General Inspection

Conduct a general inspect often. Look for fluid leaks and loose or damaged parts. Check for loose or damaged belts and for spindle end play regularly. If there is anything wrong do not operate! Call for service.

Air Filter Inspection:

1. Remove the wing nut, then remove the air cleaner cover. Be careful to prevent dirt and debris from falling into the air cleaner base opening.
2. Remove the air filter from the air cleaner base.
3. Remove the foam filter from the paper filter.
4. Inspect the paper and foam filters. Replace damaged filters Clean or replace dirty filters.

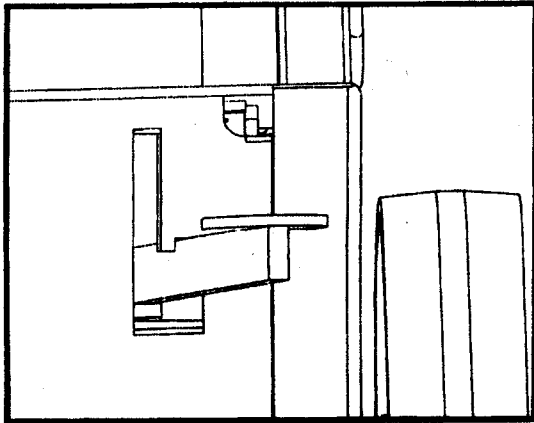
Water

Simply connect water supply hose to a water source, and adjust water flow rate with valve on the back of RG1112.

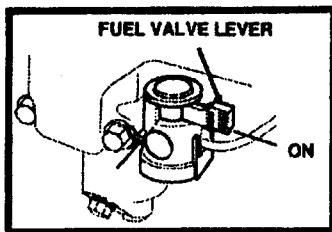
STARTING

Caution

1. Be sure the foot lever (item#37) is in the lowered position, causing the diamond grinding disc (item#51) to be disengaged from the floor. The image below illustrates the position that the air lifter leg pedal should be in before you start the engine. If you do not disengage the grinding head from the floor and try to start the RG1112 will have a tendency to rotate and could cause injury.



2. Place throttle lever in the choke position if you are starting a cold engine. If the engine is warm do not use the choke. Move the throttle lever slightly past the idle position.
3. Turn the fuel valve to the ON position (shown below).



4. Pull the starter grip lightly until resistance is felt, then pull briskly.



KEEP CLEAR OF GRINDING DISC
WHEN STARTING

5. Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

6. If the choke was used to start the engine, move the throttle to the fast or high position as soon as the engine warms up enough to run smoothly without the use of the choke.
7. Let the engine warm up at an idle for a minute or two before you increase the engine throttle and begin to grind. Running cold engine at high rpm will decrease the life of the engine.

OPERATION



Caution

1. Turn on the water. Never run the RG1112 without water. The water serves as a lubricant and coolant for extended grinding head life.
2. Carefully disengage foot lever (item#37) by letting it up to engage the grinding disc with the work surface.
3. Slowly move RG1112 over the area to be ground.
4. To vary the grinding head speed adjust the throttle to vary the depth of cut, the axle (item#42) can be moved forward or backward to change the downward force on the grinding head. If extremely light cuts are desired, remove ballast weight (item#15) from the machine. For details on how to move the axle refer to page 24 of this manual.

Stopping the RG1112

1. Push the foot lever down and over to latch. This lifts the grinding head clear of the work surface.
2. Turn the water OFF.
3. Idle engine for a few minutes to cool down, then slide the throttle lever to stop position till the engine comes to stop.
4. Close fuel valve.



Caution


THE SURFACE TEMPERATURE OF THE ENGINE IS EXTREMELY HOT. AVOID TOUCHING.

MAINTENANCE

1. Refer to Honda GXV340K2DX3 Engine Manual (provide with the RG1112 Cretemower) for periodic engine maintenance.
2. Spindle hub (item#26) is factory packed with grease. Every 20 hours of operation, re-grease with a small amount of any lithium based grease. Do not over grease. It is possible to blow the two seal (item#23).
3. Periodically check for loose hardware and belt wear. To check for belt wear, remove the ballast weight (item#15) and the two bolts that hold the ballast weight plate. Remove the ballast weight plate and look at the belt for tears and or excessive wear. Replace if necessary.
4. Periodically check spindle assembly for end play. There should be NO END PLAY. Adjustments are made by loosening bushing on sheave and driving sheave (item#2) down. Re-align sheave with the engine sheave, and re-tighten.

The importance of maintenance

Good maintenance is essential for safe and trouble free operation. To help you properly care for your Honda powered RG1112; the following maintenance schedule was prepared.

 The black box marks the interval when the maintenance should take place. Additional numbers or symbols that are in the black boxes are keyed at the bottom of the page.

HELPFUL TIPS & SUGGESTIONS

To obtain maximum grinding disc use and performance, the disc must be removed and rotated 180° in relation to the drive shaft, and reinstalled after every four hours of grinding.

Please refer to figure 3 adjacent. If the grinding head is in this orientation (A) with respect to the drive shaft remove it and rotate it 180° (figure 4). Make sure that the drive shaft is not moved during this process then, re-install.

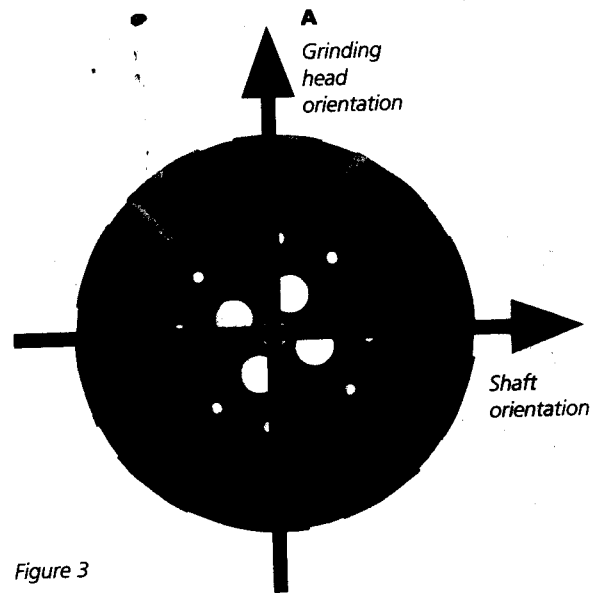


Figure 3

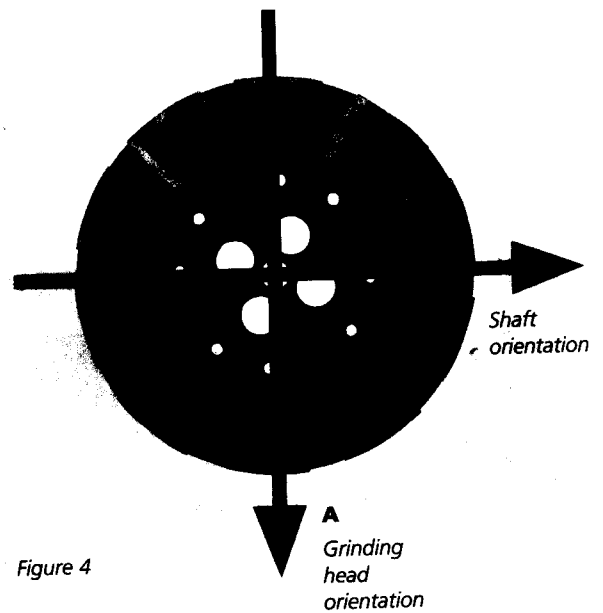


Figure 4

TECHNICAL & CONSUMER INFORMATION

Length	978 mm
Width	559 mm
Height	673 mm
Dry Weight	282 ib (including 35 ib ballast weight)
Engine Type	Honda GXV340K2DX3, 11 HP Vertical Shaft Engine
Fuel Type	Unleaded Gasoline with a pump octane rating of 86 or higher
Fuel Capacity	0.61 US gal., 2.3 Litre
Fuel Consumption	0.51 ib/hph, 340g/kWh
Cooling System	Forced Air
Oil Capacity	1.16US qt.,(1.1Litre), 1.48 US qt. (1.4 litre) w/oil filter

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	531210300	Drive Belt, 3VX400	3
2	531210301	Sheave, 3GR3V5.60	1
3	531210302	Bushing, SDS x 1	1
4	531210303	Seal Spacer	1
5	531210304	Throttle Control	1
6	531210305	Engine, 11 HP. Honda Vertical Shaft	1
7	531210306	Handle Assembly	1
8	531210307	Hose, Water	1
9	531210308	Water Hose Connector	1
10	531210309	Reducer Bushing 1/3" x 3/8"	1
11	531210310	Sheave, 3GR3V3.00	1
12	531210311	Bushing, SH x 1	1
13	531210312	Ballast Support	1
14	531210313	Cowl Assembly	1
15	531210314	Ballast Weight	1
16	531210315	Hole Plug	1
17	531210316	Skirt, Front	1
18	531210317	Skirt Retainer	1
19	531210318	Grease Fitting	1
20	531210319	Fitting, 1.8" Pipe x 3/16" Tube	1
21	531210320	1/8" Pipe Coupling	1
22	531210321	1/8" Nipple	1
23	531210322	Seal	2
24	531210323	Bearing Cup & Cone	2
25	531210324	Hub Assembly (Includes Bearings & One Seal)	1
26	531210325	Spindle Assembly	1
27	531210326	Flex Coupling Assembly - Incl. Hardware	1
28	531210327	Flat Head 3/8" 2-1/2"	2
29	531210328	Locknut 3/8"-16	4
30	531210329	Bolt, Hex Head 3/8"-16x2-1/2"	2
31	531210330	Mowing Head Mounting Plate	1
32	531210331	1/4" Nipple	1
33	531210332	Frame	1
34	531210333	Water Valve	1
35	531210334	1/2" Nipple	1
36	531210335	Reducer Bushing 1/2" x 1/8"	1
37	531210336	Lifter Lever Assembly	1
38	531210337	Water Tube	1
39	531210338	Lifter Leg Assembly	1
40	531210339	Pivot Bolt-Lifter Leg Assembly	2
41	531210340	Locknut, 1/2"-13	2
42	531210341	Axle Assembly	1
43	531210342	Wheels	2
44	531210343	Skirt, Rear	1
45	531210344	Lifter Spring	2

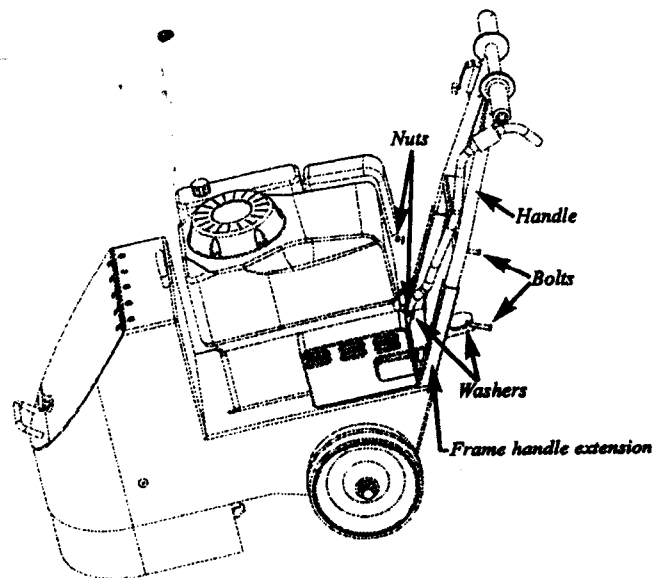
PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
46	531210345	Tube Clamp	2
47	531210346	1/4" Square x 1-1/2" Key	2
48	531210347	Cap push Nut	2
49	531210348	Screw, Hex Head 3/8"-24-7/8"	4
50	531210349	3/8" Lockwasher	4
51	531210350	Grinding Head*	0
52	531210351	Locknut 1/2" - 20	4
53	531210352	Lockwasher 1/2"	1
54	531210353	SAE Washer 1"	4
55	531210354	LockwasherFu 1/4"	2
56	531210355	Hex Nut 1/4"-20	2
57	531210356	Bolt, hex Head 1/2 - 13 x 2 - 1/2"	1
58	531210357	Lockwasher 5/16"	5
59	531210358	Hex Nut 5/16" - 18"	2
60	531210359	SAE Washer 5/16"	5
61	531210360	Bolt Hex Head 1/2" - 13 x 2"	2
62	531210361	Bolt Hex Head 5/16" - 18 x 1 - 3/4"	2
63	531210362	Bolt Hex Head 5/16 - 18 x 3/4"	5
64	531210363	Lockwasher #10	2
65	531210364	Locknut 5/16 - 18	6
66	531210365	Jam Nut 1/2" - 13	2
67	531210366	Hex Nut 10 - 32	2
68	531210367	Bolt Hex Head 5/16" - 18 x 2 - 1/2"	4
69	531210368	Machine Screw Flat Head - Slotted 1/4" - 20 x 1/2"	2
70	531210369	Machine Screw Round Head - Slotted 10 - 32 x 1 - 1/4"	2
71	531210370	Wheels Collar	2
72	531210371	Decal - "Caution"	1
73	531210372	Decal - "Ballast Weight"	1
74	531210373	Decal - "Grease Daily"	1
75	531210374	T-Handle/Hood Latch	1

CONTROLS & FEATURES

Adjustable Handles

Remove nuts, bolts and washers from frame handle extension bars. After bolts are removed, move the handle up or down to desired position. Align nearest holes and replace the hardware.



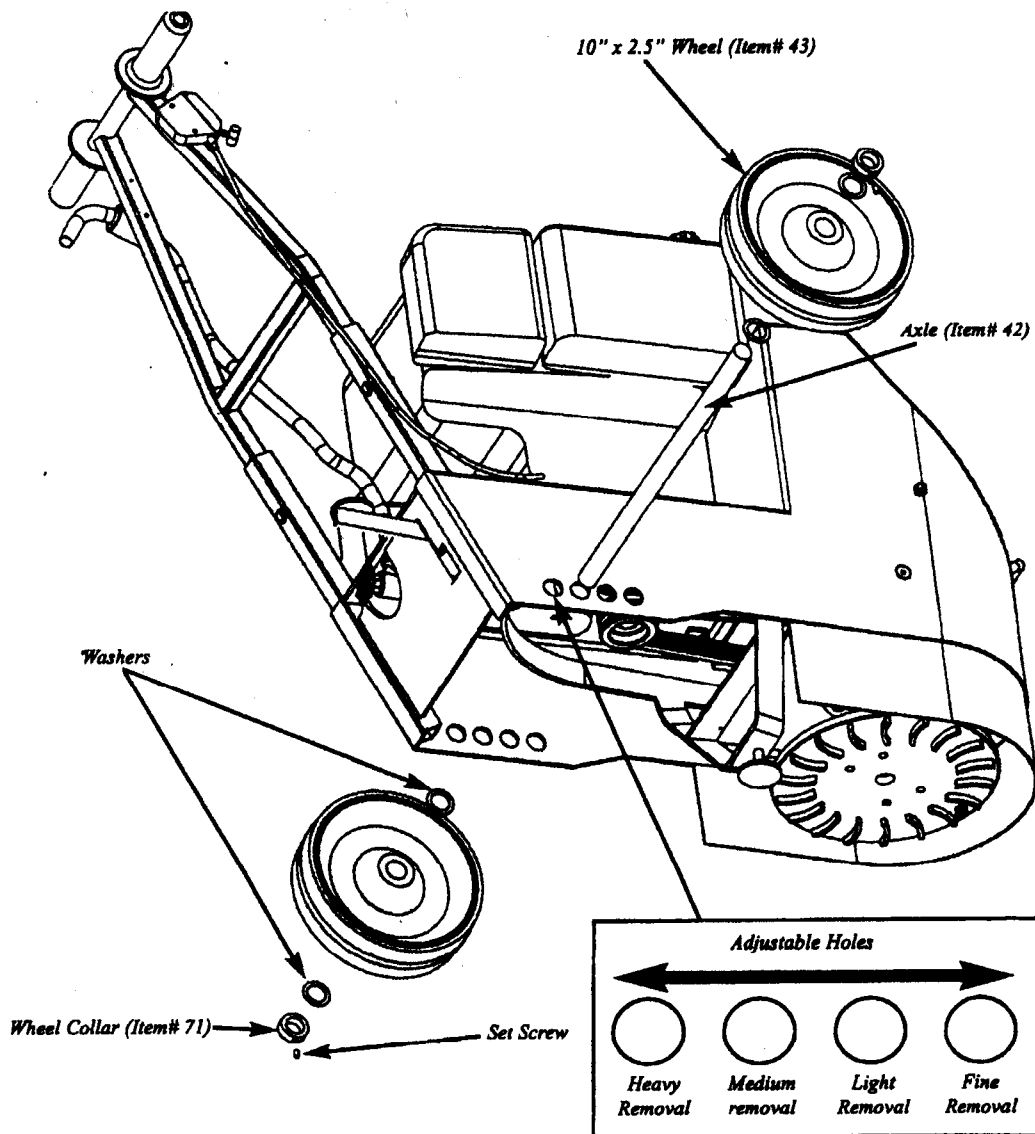
Belt Change

1. Open hood latch and then the hood. Remove ballast weight.
2. Remove the two bolts that mount the ballast weight plate. Remove the plate itself.
3. Loosen (DO NOT REMOVE) the four bolts that mount the Honda engine.
4. Loosen the two bolts on the back of the engine tensioning plate.
5. Push the engine towards the front of the machine.
6. Remove belts from sheave.
7. Install new 3VX400 belt and reverse the process.

CONTROLS & FEATURES

Adjustable axle

The RG1112 has a moveable axle, which allows for varied loads on the grinding head. This ability makes the RG1112 suited for just about any application from heavy removal to polishing. To move the axle simply back off the wheel collar's set screw and remove the collar, washers, wheels and axle. When the desired position is determined replace the axle in the appropriate frame hole and begin grinding.



CONTROLS & FEATURES

Removable Ballast Weight

Figure 1

Turn hood latch to unlock hood.

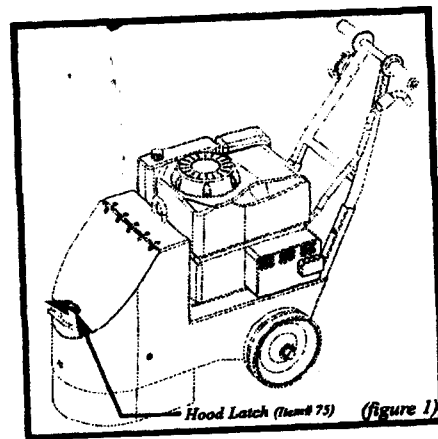


Figure 2

Pull on "T" – Handle and open hood to expose ballast weight container. The hood is designed to rest against the lifting hook when fully opened. The hood is made from a heavy gauge steel and could cause injury if it falls.

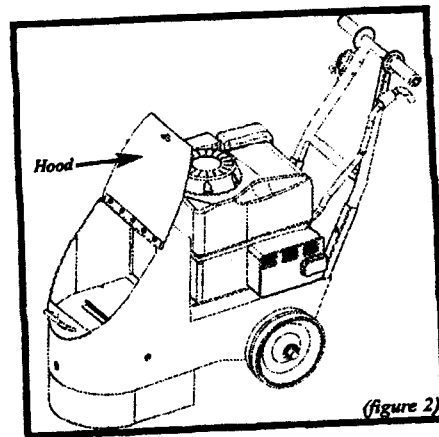


Figure 3

Place the ballast weight on the ballast weight plate and behind the locating angle bracket (as shown in figure 4). The angle bracket keeps the ballast weight from sliding front to back.

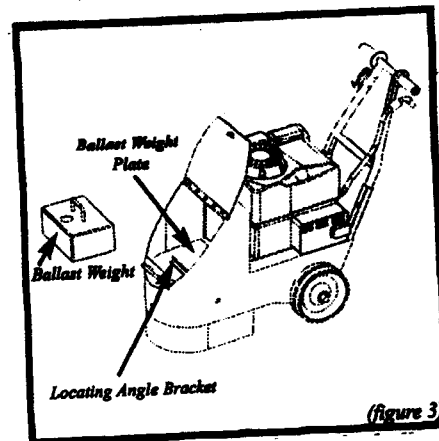
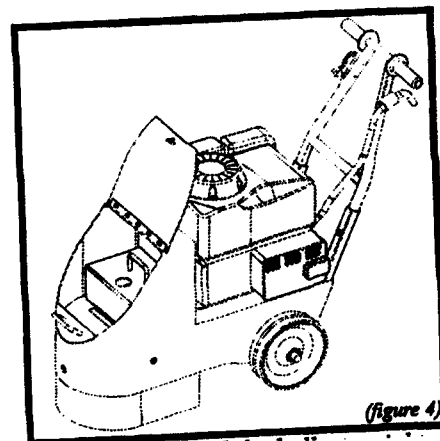
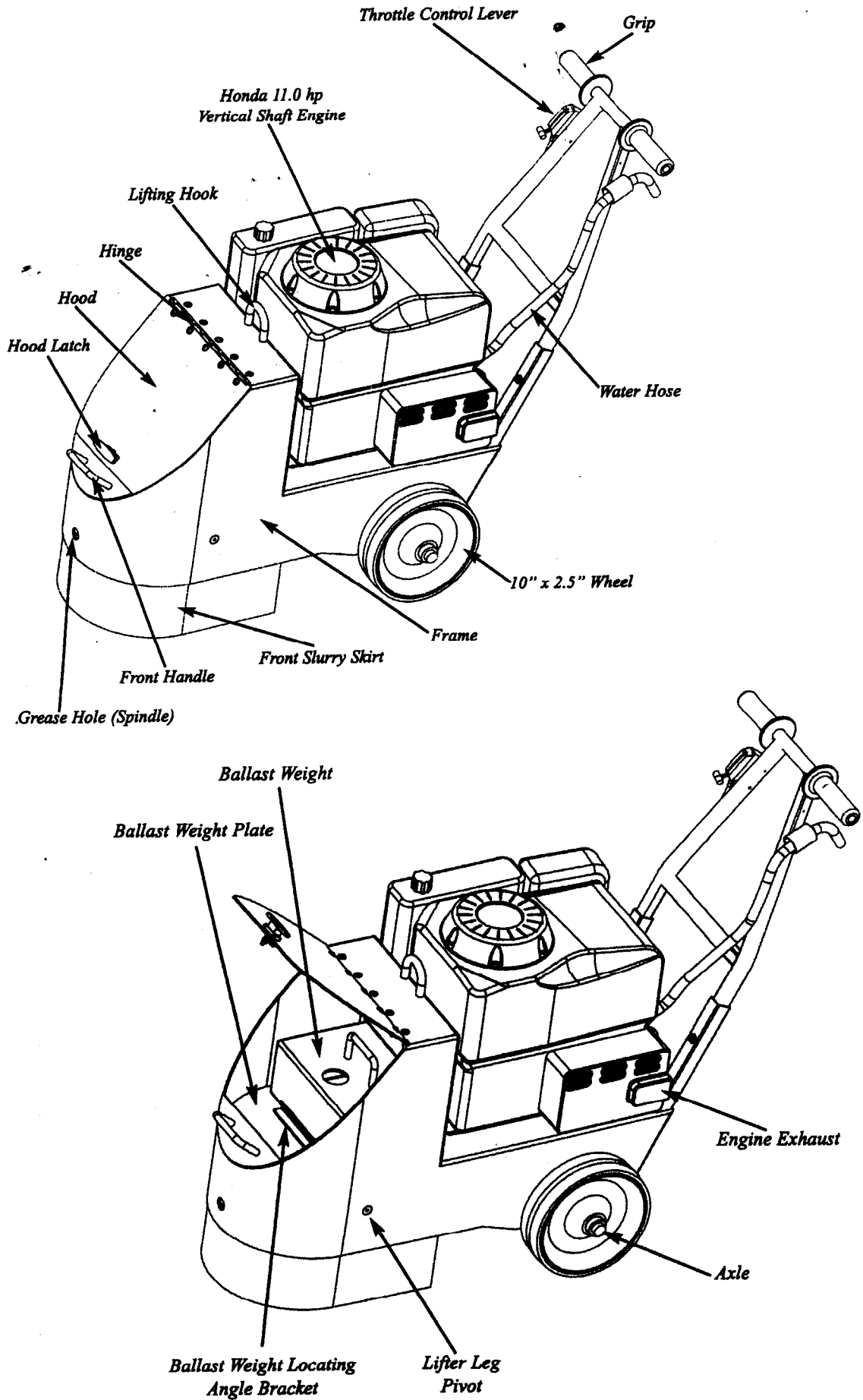


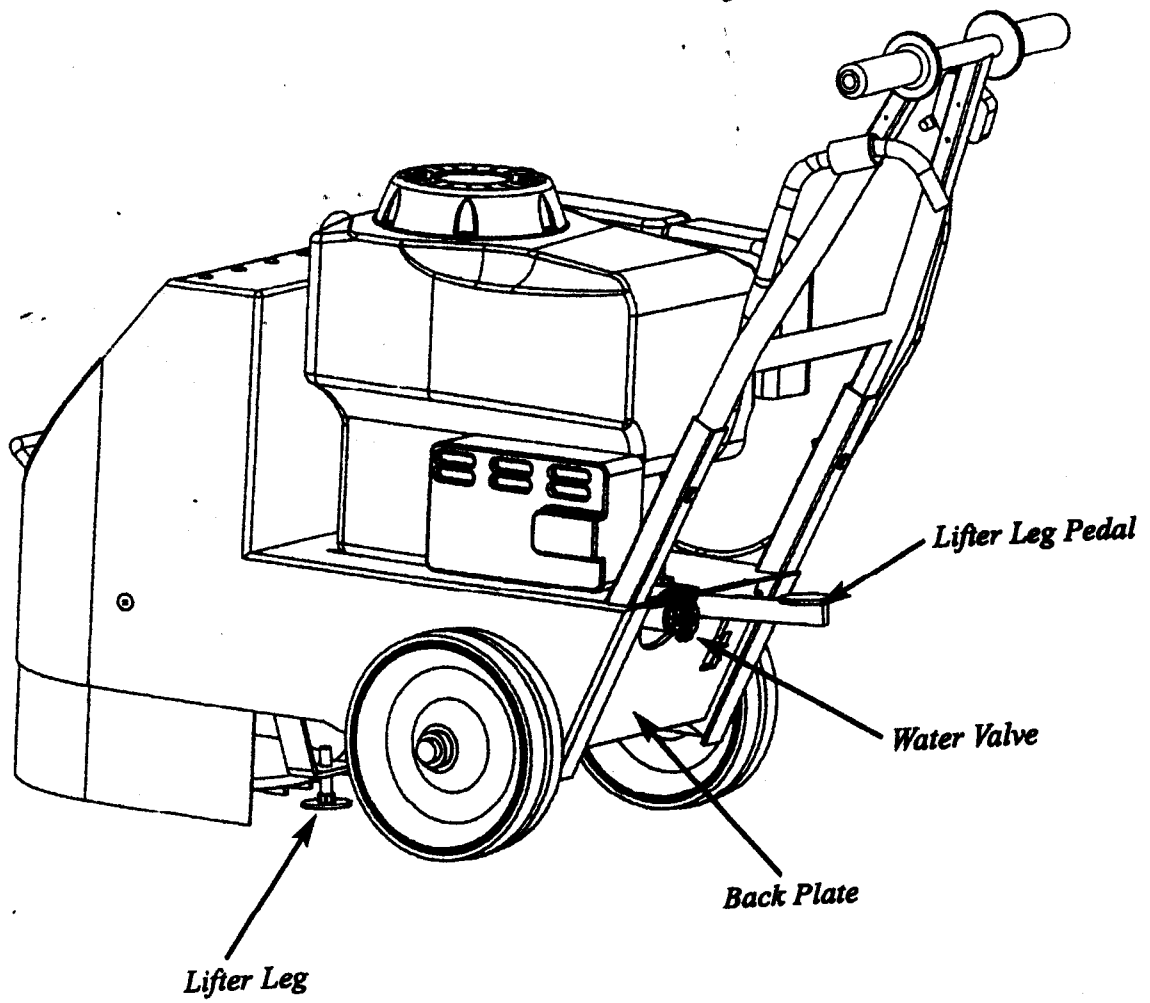
Figure 4

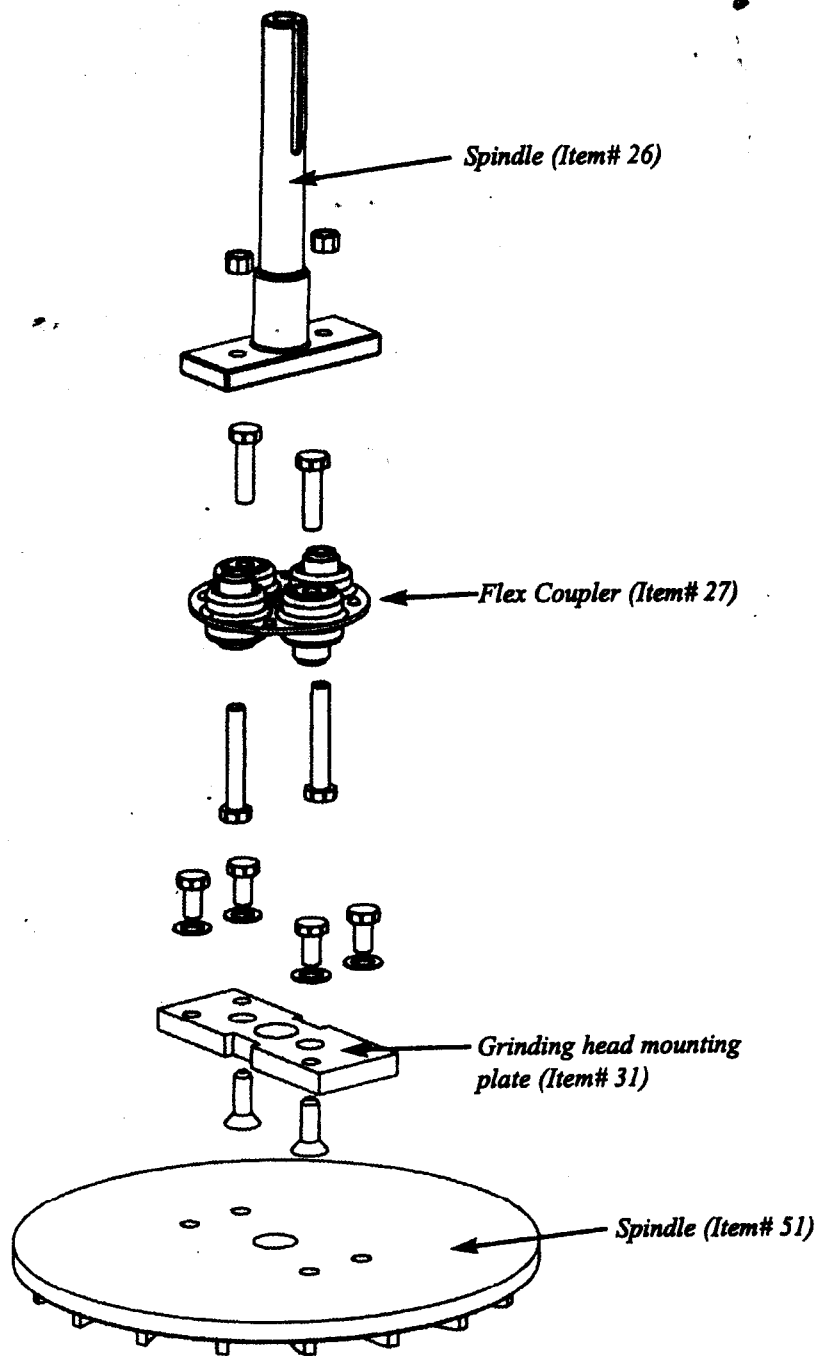
Do not overload the ballast weight container, the machine is not designed to carry any additional weight. Before operating your RG1112 close and re-latch the hood.

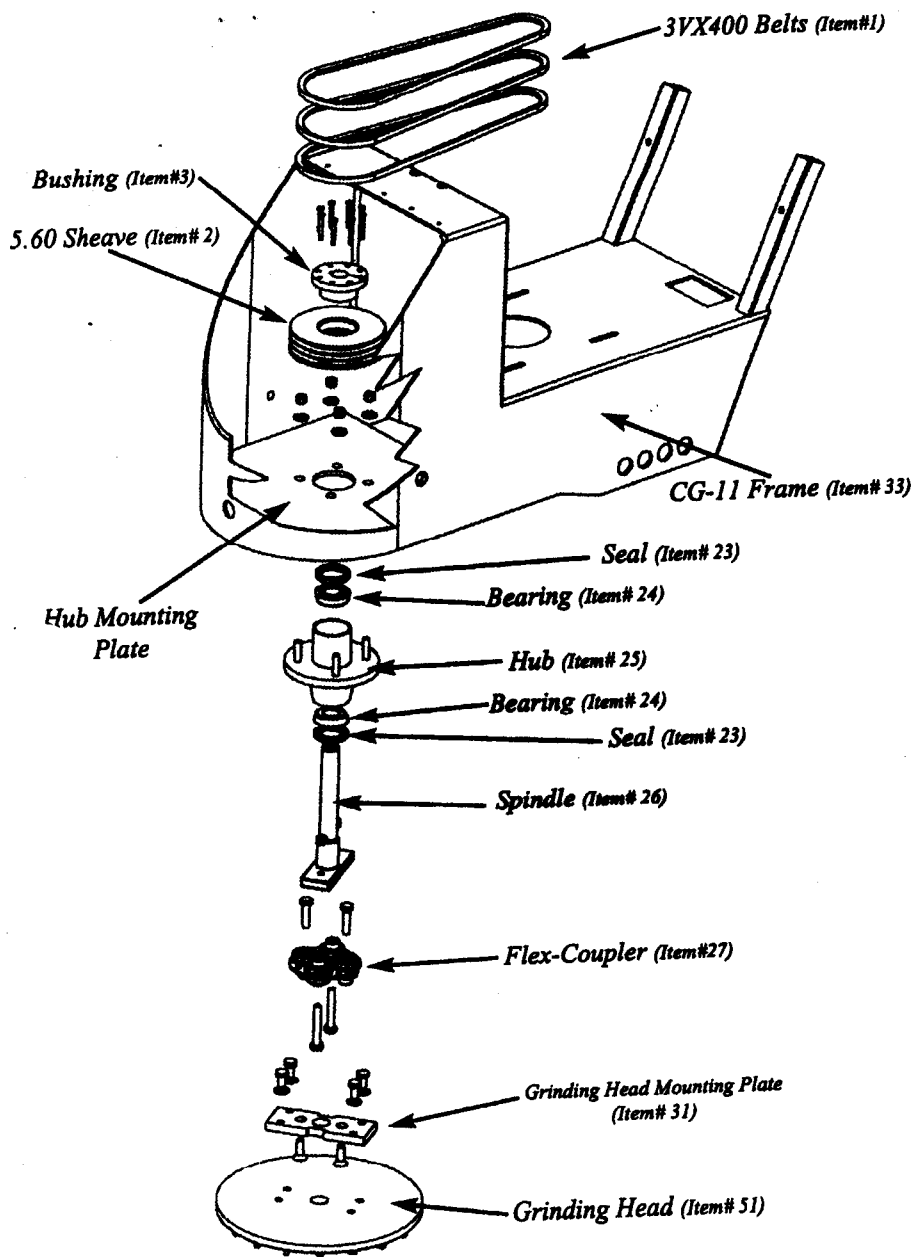


TECHNICAL DRAWINGS









WARRANTY

Dimas Australia Pty Ltd warrants to the original purchaser that each new pavement saw manufactured by it to be free, under normal use and service, from defects in material and workmanship for a period of one (1) year after the date of first use by the original purchaser.

Dimas Australia Pty Ltd's responsibility under this limited warranty shall be limited to the repair or replacement, at Dimas Australia Pty Ltd's option, or any part or parts that were manufactured by Dimas Australia Pty Ltd and which upon examination are found, in Dimas Australia Pty Ltd's sole judgement, to have been defective in materials or workmanship. The original purchaser is responsible for all labor charges in connection with any warranty work. It shall be a condition of Dimas Australia Pty Ltd's obligation under this warranty claim that the part of parts claim to be defective be promptly delivered, labour borne by transportation prepaid be the original purchaser, to Dimas Australia Pty Ltd's factory in Adelaide, South Australia, Australia, for inspection or repair.

The repair or replacement of any part or parts under this limited warranty shall not extend the term of the equipment warranty beyond the term set forth above.

Limitations and exclusions:

This limited warranty shall not apply to:

- A. Any equipment which may have been subject to negligence, misuse, accident or misapplication.
- B. Any equipment that has been repaired or modified by anyone in a manner, which, in Dimas Australia sole judgement adversely affects the equipment's performance or reliability.
- C. Any equipment that has been modified or repaired with parts or components not manufactured or approved by Dimas Australia which, in Dimas Australia sole judgement adversely affects the equipment's performance or reliability.
- D. Maintenance parts and services including, but not limited to, replacement of service items, (i.e. filters, engine and hydraulic oils, grease, and belting, etc).

In no event shall Dimas Australia be liable for consequential damages arising out of failure of the saw to operate properly or resulting from the loss of the use of the saw.

Integral parts or units such as gasoline or diesel engine, electric motors, hydraulic components, transmission, etc. furnished by Dimas Australia but not manufactured by Dimas Australia are excluded from this warranty and will carry only the warranty of the manufacturer.

THIS WARRANTY IS IN THE LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

QUICK REFERENCE GUIDE

Fuel	Type	Unleaded Gasoline with a pump octane rating of 86 or higher
	Capacity	0.61 US gal., 2.3 Litres
Engine Oil	Type	SAE 10W - 30, API SF or SG, general use
	Capacity	1.16 US qt (1.1 litre), 1.48 US qt (1.4 Litre) w/oil filter
Spark Plug	Type	NGK: BPR5ES or NIPPON DENSO: W16EPR-U
	Capacity	0.70 - 0.80mm (0.028 - 0.031 in)
Engine maintenance	Before each use	Check oil level, air filter and fuel hose
	First 20 hours of use	Re-grease spindle with lithium grease and change engine oil.
	Subsequent Hours	Service Air filter after 3 months. Change engine oil and clean and adjust spark plug every 6 months. Replace oil filter, air filter, and spark plug after 100 hours or one year of use.
Spindle maintenance	Before each use	Check for End Play. There should be none.
	First 20 hours of use	Grease with a small amount of any lithium based grease.
Grinding Head Rotation	Every 4 hours	Remove and rotate grinding head 180 degrees in relation to drive shaft.
Cleaning	After every use	Hose down grinding head area under cowling.

MAINTENANCE SCHEDULE

			REGULAR SERVICE PERIOD (4)							
			Every use	Every 4 hours of use	First month or 20 hours of use	Every 3 months or 50 hours of use	Every 6 months or 100 hours of use	Every year or 300 hours of use	Refer to page in Honda manual	
ITEM (perform at every indicated month or operating hour interval, whichever comes first)	●	Engine oil	Check level						17	
			Change						18	
	●	Engine oil filter	Replace						19	
	●	Air filter	Check						20	
			Clean			(1)			21	
			Replace					*	20	
	●	Spark plug	Clean/adjust						22	
			Replace						22	
	●	Fuel tank & filter	Clean					(2)	-	
	●	Fuel line	Check	Every 2 years (replace if necessary)						
	●	Fuel Hose	Check							-
●	Spindle grease	Grease			(3)				18 (this manual)	
●	Rotate grinding head 180°	Rotate							20 (this manual)	

● Emission related items.

* Replace the paper element only!

(1) Service more frequently when used in dusty areas.

(2) These Items should be serviced by an authorised Honda servicing dealer, unless owner has the proper tools and is mechanically proficient. Refer to the Honda shop manual for service procedures.

(3) Use lithium based grease. DO NOT OVER GREASE!

(4) For commercial use, log hours of operation to determine the proper maintenance intervals.