

OPERATING INSTRUCTIONS

General information

- 1 Read these operating instructions and the engine operation manual before operating this machine.
- 2 Follow ALL THE SAFETY INSTRUCTIONS.
- 3 Know the location and operations of all saw and engine controls.

Warnings

- DO NOT SMOKE while refueling. Shut off engine; refuel away from open flames. Use caution, gasoline fumes are flammable.
- Always be sure all guards are securely in place before sawing. DO NOT OPERATE THIS SAW WITHOUT THE BLADE AND BELT GUARDS IN PLACE.
- DO NOT start or operate the engine with governor linkage disconnected.
- Always stop the engine before adjusting or repairing any part of this saw. To prevent accidental starting disconnect the spark plug wires before working on the engine or changing belts.
- Avoid contact with the Muffler during and immediately following operating. The muffler becomes extremely hot during operation.
- While sawing always wear Safety Glasses, Safety Shoes, Ear Protection, Hard Hat and Respirator (if dry cutting).
- DO NOT wear loose fitting clothing while sawing or working around moving machinery.
- When starting engine be prepared for possible engine recoil. Be sure you have proper footing.
- DO NOT leave machine unattended while engine is running.

Inspection

- 1 After removal from carton following transport, inspect machine for any damage that may have occurred in transit. Report any damage to the Freight Company or your superintendent. DO NOT operate the machine if damaged.
- 2 Engine is shipped with oil. Before operating recheck oil level, (See engine manual for detailed information).

Saw controls

- 1 Three machine controls are located on the handlebars.
 - a) Engine Stops Button
 - b) Raise/ Lower Lever and
 - c) Water Valve (See Figure 1).

All engine controls, Throttle, Choke and Fuel Shutoff are located on the engine. (See *Engine Manual*).

- 2 To raise the saw, squeeze the lever (B) and push down on the handle bars, to lower the saw, squeeze the lever (B) and lift up on the handle bars. Release the lever to lock the saw in any desired position.

Blade installation

- 1 Dry cutting diamond blades, wet cutting blades or reinforced abrasive blades may be used on this machine. Blades must have a 1" diameter arbor hole with drive pin hole.
- 2 Visually inspect the guard for cracks or loose mounting. Repair or replace if necessary. DO NOT use the saw without all guards securely in place. FAILURE TO COMPLY COULD CAUSE SERIOUS PERSONAL INJURY.
- 3 Using the Raise/ Lower Lever, raise the saw to provide adequate clearance to mount blade.
- 4 Install Bladeshaft Lock Pin through the hole located at the lower front of the saw frame and into the bladeshaft. This will lock the bladeshaft in place.

Remove Bladeshaft Nut using the wrench provided and remove the outer blade mounting flange, make sure the bladeshaft arbor and blade mounting flanges are clean and free of nicks and burrs on the clamping face. Make sure the inner mounting flange is tight on the bladeshaft. Check the Drive Pin for damage or loose fit replace if necessary. DO NOT USE THIS SAW WITHOUT A DRIVE PIN. Sawing without a pin may cause serious damage to the blade, blade arbor, bladeshaft and flanges. Mount a blade on the bladeshaft arbor, the fit should be snug. DO NOT FORCE THE BLADE ONTO THE ARBOR. Install outer flange and align drive pin with holes through the blade and inner flange. Blade must fit securely against the inner flange. Thread the bladeshaft nut onto the shaft and tighten securely. **IMPORTANT: BE SURE TO REMOVE THE BLADESHAFT LOCK PIN.**

NOTE: Saw blades must be held securely and run true to achieve proper blade performance.

OPERATING INSTRUCTIONS

Saw

- 1 Before Starting engine, be sure the blade is clear of the pavement.
- 2 Start engine with transmission engaged and speed control lever in neutral.
- 3 When starting engine, be sure you have proper footing.
- 4 Follow starting instructions in the engine manual provided.
- 5 After starting, allow the engine to warm up at half throttle.
- 6 Open the engine throttle to FULL OPEN position. All sawing is done with the engine at full throttle.
- 7 If Wet Cutting; Open water valve to FULL ON position, observe water flow on blade and be sure it is adequate before lowering blade into cut. Wet Cutting Diamond Blades will be destroyed almost instantly if used without water.
- 8 Using the Raise/ Lower Crank, slowly lower the blade into the pavement. If engine stalls, remove blade from the cut before restarting the engine. Start saw forward by gently pushing the speed control lever forward. DO NOT force the saw; allow the blade to saw.

When cut is finished

- 1 Return Speed Control Lever to neutral.
- 2 Raise saw blade clear of pavement using the Raise/ Lower Crank.
- 3 Turn Water OFF
- 4 Move throttle to IDLE position. Allow engine to cool down after each use before stopping.
- 5 Depress the ENGINE STOP BUTTON located on the cowling and hold until the engine stops.
- 6 Turn fuel valve to OFF position.
- 7 To move the saw with the engine off, raise blade clear of the pavement, disengage transmission and push against handlebars.

About diamond & abrasive blades

- 1 DO NOT use cracked or "out of round" blades. Never twist or force the blade in the cut. This is especially important with abrasive blades; failure to comply could result in serious personal injury.
- 2 Dry Cutting Diamond Blades; these blades may be used with water. Blades must be marked, "DRY CUTTING DIAMOND BLADE" or "FOR DRY CUTTING".
- 3 Wet Cutting Diamond Blades; these blades must be used with water. Blades should be marked, "FOR WET CUTTING" or "WET CUTTING DIAMOND BLADE". Failure to use adequate water flow will destroy the blade, and could cause segment loss resulting in serious injury.
- 4 Abrasive Blades: Extreme care must be used when sawing with abrasive blades. DO NOT force twist the blade in the cut. Breakage may occur and could cause serious personal injury. Comply with OSHA regulations and A.N.S.I Safety Code B7.1 proper handling of abrasive blades.

Blade capacity, cutting depths and blade speeds

Blade diameter - mm	305	355	457	508
Maximum cutting depth - mm	95	120	171	197
Bladeshaft RPM	3189	3189	2322	2322
Engine sheave diameter - mm	105	105	76	76
Bladeshaft sheave diameter - mm	114	114	114	114

All bladeshaft speeds are factory set. To change blade diameters consult the factory. FAILURE TO MAINTAIN CORRECT BLADESHAFT SPEED COULD RESULT IN SERIOUS PERSONAL INJURY.

MAINTENANCE INSTRUCTIONS

Engine

Follow the maintenance procedures listed in your engine manual. Especially important, check engine oil daily. Proper engine maintenance will prolong the life of your saw.

Bladeshaft bearings

Lubricate daily

Air cleaner element

Clean daily

Wet cutting

Clean daily

Dry cutting

Clean daily

Failure to clean the air cleaner element will result in short engine life.

Rear wheels

Grease weekly

Belts

Inspect monthly (see figure 1)

Transmission

Check weekly, use ATF Type F.

Screw tube

grease weekly

Crank bearings

Grease weekly

Front wheels

Grease weekly

Rear axle

Grease weekly

Driver roller bearings

Grease weekly

Engagement linkage

Grease weekly (see figure 1)

Clean and inspect

Blade mounting flanges, bladeshaft arbor and drive pin each time a blade is mounted on the saw. (See *blade installation*).

Air cleaners

Air Cleaners must be cleaned and serviced twice daily or more when operating under dusty conditions (dry sawing with abrasive blade). Failure to clean and/or replace the filter elements are pre-cleaner will result in dust ingestion by the engine. Dust ingestion will wear out cylinders, pistons, rings and bearings in a few hours time and will result in costly repairs. All engine warranties are void if the engine has ingested dust. Please refer to the engine manual enclosed.

PROTECT YOUR INVESTMENT MAINTAIN YOUR EQUIPMENT

Ask about Dimas Australia's line of Diamond & Abrasive Blades and High Performance 37 HP & 65 HP Saws available from your Dimas Australia Distributor.

THE 10 COMMANDMENTS FOR PAVEMENT SAWING

1. Machinery conditions

Check your saw for overall engine condition, placement and condition of all guards, belts, bearings or bent/worn shafts. The condition of your equipment is a major factor in the overall performance of the diamond blades that you will use.

2. Proper power for the application

The more horsepower (torque, not pressure on the blade) supplied to the bladeshaft, the more efficient the cutting action will be. Low horsepower saws may require softer bonds to compensate for the lower torque values.

3. Proper speeds for the blade diameter used:

The recommended operating speeds for the diamond saw blades are between 9 000 – 11 500 surface feet per minute. When changing the blade diameter size, check with the manufacturer or your distributor, as to the proper operating speeds and that you are using the proper sheave combinations for the size blade that you are using.

4. The right specifications:

Over the years, specifications have been developed to run on the various horsepower size saws and the various applications that you have. Make sure that the blade you use is intended for the application/ material that you are cutting. If you follow these specifications, you will have a faster, more efficient cutting and lower costs for the job.

5. Blade mounting:

When the blade is snugged up evenly with clean, equal size flanges which are free of rust, it runs straighter and truer for maximum cutting efficiency. Bad seating results in lopsided wear, egg shaped or burnt arbor hole on the blade.

6. Blade tension:

Each blade is tensioned to run true at the speed (rpm) of the machine on which it will run, as long as that machine is sheaved properly. Blades run at higher or lower speeds that are tensioned for, will waffle or flutter, creating excessive side wear or core cracking. If the problem exists shut the saw down immediately and check to see if the proper sheaves are being used and are changing as needed.

7. Water placement:

A good water flow properly placed on each side of the blades is needed. A fan shape water flow at roughly the two o'clock position on the face of the blade, half to two thirds the distance between the blade shaft flanges and the rim of the diamond blade.

8. Water volume/ flushing action:

The water volume should be roughly 4.5 – 6 Gallons per minute and not a high pressure level (hydrant). The amount of volume also depends on the flushing action required. Heavy, thick slurry will shorten overall blade life. Maintain sufficient water flows.

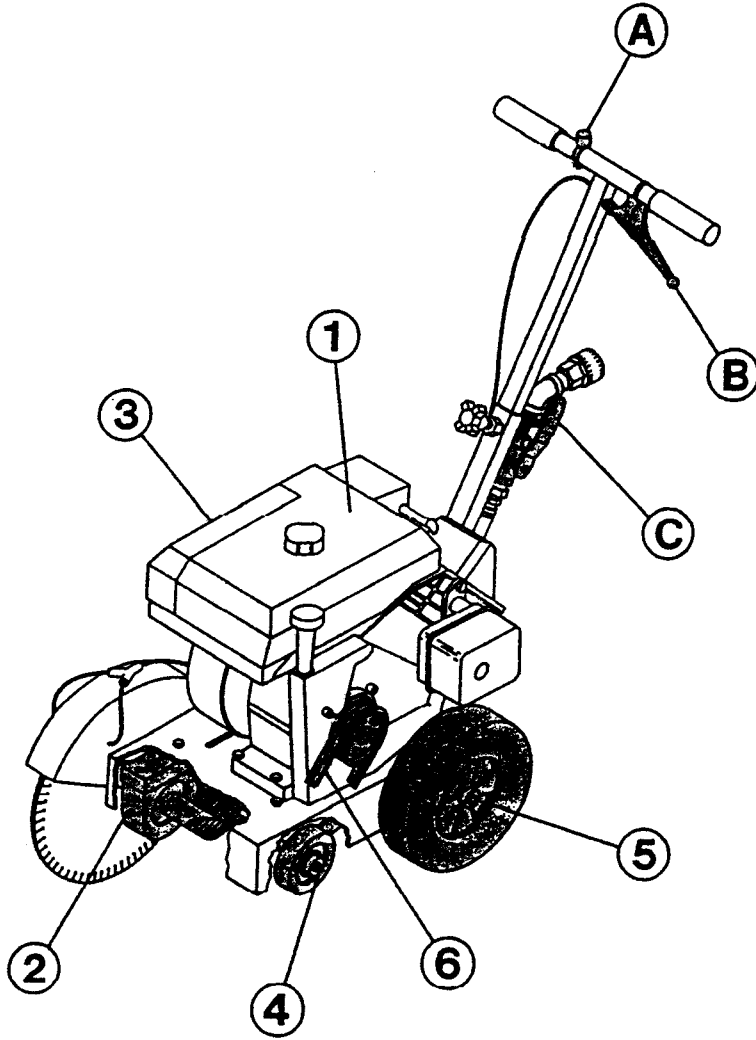
9. Keep the blade out of the base:

If you cut through the asphalt or concrete slab into the base, water loss will result and the abrasion of the sand in the base will cause premature wear on the steel core and to the diamond segment. Under cut protection may be required.

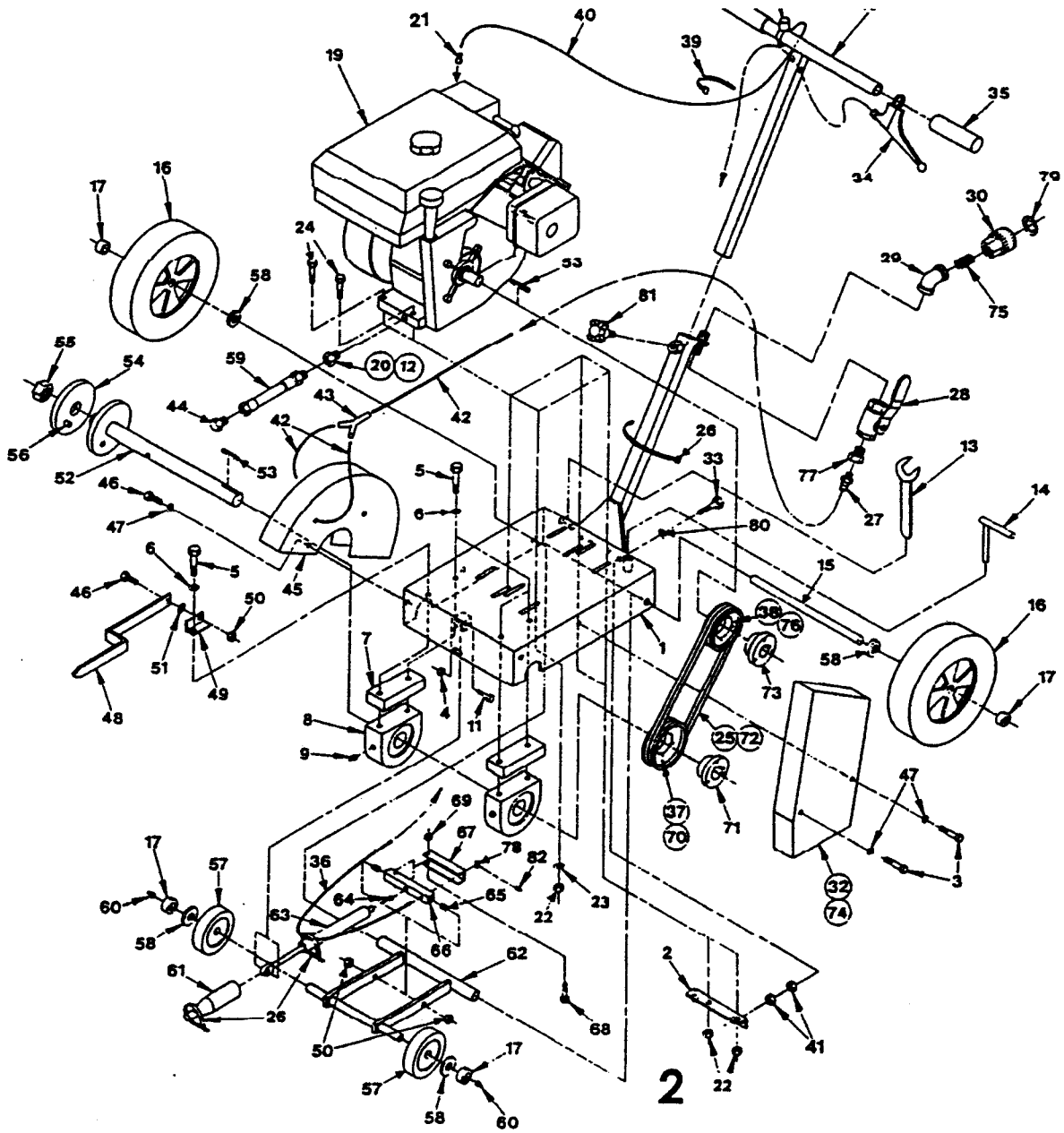
10. Let the blade cut:

Excessive pressure on the blade will glaze over the diamonds, create the stress in the steel core and cause the blade to become out of round (hammer in the cut). On lighter, lower horsepower saws, too much pressure causes the blade to ride up out of the cut and will lug the engine down. Listen for a smooth cutting sound and the engine running at a smooth level rpm and not working on/off the governor setting.

COMPAC FIGURE 1



COMPAC FIGURE 2



PARTS LIST

ITEM	PART	QTY	DESCRIPTION	ITEM	PART	QTY	DESCRIPTION
1	531210000	1	MAIN FRAME	32	531210034	1	BELT GUARD (UPCUT ONLY)
2	531210001	1	TENSION BRACKET	33	531210035	2	BOLT M10 x 100 ALL THREAD
3	531210002	2	BOLT M10 x 90	34	531210036	1	CONTROL LEVER
4	531210003	1	NUT NYLOC M8	35	531210037	2	HAND GRIP
5	531210004	4	BOLT M12 x 20	36	531210038	1	CONTROL CABLE
6	531210005	4	LOCKWASHER M12	37	531210039	1	SHEAVE 3,3V 4.12 (HONDA 13 HP ONLY)
7	531210006	2	SPACER	38	531210040	1	SHEAVE 3,3V 3.65 (HONDA 13 HP ONLY)
8	531210007	2	BEARING	39	531210041	7	WIRE TIE (SMALL)
9	531210008	2	GREASE ZERK	40	531210042	3.2FT	WIRE 16 GA
10	531210009	1	HANDLEBAR	41	531210043	4	NUT M10
11	531210010	1	BOLT M8 x 40	42	531210044	3.9FT	WATER HOSE
12	531210011	1	ADAPTER (BRIGGS ONLY)	43	531210045	1	"Y" FITTING
13	531210012	1	WRENCH	44	531210046	1	PIPE CAP
14	531210013	1	LOCK PIN	45	531210047	1	BLADE GUARD
15	531210014	1	REAR AXLE	46	531210048	3	BOLT M10 x 25
16	531210015	2	REAR WHEEL	47	531210049	4	LOCKWASHER M10
17	531210016	4	SET COLLAR	48	531210050	1	FRONT POINTER
18	531210017			49	531210051	1	FRONT POINTER MOUNT
19	531210018	1	ENGINE, BRIGGS & STRATTON 9 HP	50	531210052	3	NUT, NYLOC M10
	531210019	1	ENGINE, HONDA 9 HP	51	531210053	1	FRICTION WASHER M10
	531210020	1	ENGINE, HONDA 11 HP	52	531210054	1	BLADESHAFT
	531210021	1	ENGINE, HONDA 13 HP	53	531210055	2	KEY 1/4 SQ. X 1 1/4
20	531210022	1	METRIC ADAPTOR (HONDA ONLY)	54	531210056	1	OUTER COLLAR
21	531210023	1	QUICK SPLICE	55	531210057	1	BLADESHAFT NUT
22	531210024	4	NUT, NYLOC 3/8-16 X 1 3/4 (HONDA ONLY)	56	531210058	1	DRIVE PIN
23	531210025	2	FLATWASHER M10 X 1 (HONDA ONLY)	57	531210059	2	FRONT WHEEL
24	531210026	4	BOLT M10 x 45 (HONDA ONLY)	58	531210060	4	FLATWASHER M16
25	531210027	2	BELT 3VX355 (UPCUT ONLY)	59	531210061	1	OIL DRIAN HOSE
26	531210028	7	WIRE TIE (LARGE)	60	531210062	2	GREASE ZERK
27	531210029	1	HOSE BARB	61	531210063	1	CYLINDER BOOT
28	531210030	1	WATER VALVE	62	531210064	1	FRONT AXLE
29	531210031	1	PIPE ELBOW 45°	63	531210065	1	GAS CYLINDER
30	531210032	1	GARDEN HOSE SWIVEL	64	531210066	1	CYLINDER PIN
31	531210033	1	KILL BUTTON	65	531210067	2	STUD M10
				66	531210068	1	CYLINDER PIVOT
				67	531210069	1	RELEASE BRACKET
				68	531210070	1	BOLT M6 x 40

Quick Cut Floor Saw
120mm

05 114.

DIMAS

Compac

Petrol powered road saw

**Operating, maintenance
instructions and parts list**

Effective 23.05.2003



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PARTS LIST

ITEM	PART	QTY	DESCRIPTION
69	531210071	1	NUT, NYLOC M6
70	531210072	1	SHEAVE 2 3V 4.12
71	531210073	1	BLADESHAFT BUSHING
72	531210074	*	BELT 3VX335 (NOT USED ON UPCUT)
73	531210075	1	BUSHING, ENGINE
74	531210076	1	BELT GUARD
75	531210077	1	CLOSE NIPPLE
76	531210078	1	SHEAVE2 3V 4.12
77	531210079	1	REDUCER BUSHING
78	531210080	1	WIRE STOP
79	531210081	1	HOSE WATER
80	531210082	2	FLAT WASHER M10
81	531210083	1	LOCK KNOB
82	531210084	1	SET SCREW M4x10

QUANTITY 2 BRIGGS 9 HP. - QUANTITY 3 HONDA 11
& 13 HP.

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.