



DIAMOND

PRODUCTS

OPERATOR'S MANUAL

CONCRETE SAW

MODEL
CC1113H

September 2007

Part #1801095

CONCRETE SAW OPERATING INSTRUCTIONS

ASSEMBLY

1. Set handles to desired height and securely tighten bolts.
2. Be certain to check engine oil level and service if required. Refer to engine manual for detailed information.
3. On electric saw models, the proper size power cord must be provided by the purchaser.

GENERAL INSTRUCTIONS

1. Be certain you have the correct diamond or abrasive blade. Contact your authorized servicing dealer for the correct specification. Getting the correct blade will make a tremendous difference in your blade costs and performance.
2. The blade shaft flange and arbor must be inspected for damage and cleaned before mounting the blade. If damaged, replace bad parts. Inspect blade for damage to arbor hole and flange area before attempting to mount blade.
3. Mount the blade solidly and firmly on the blade shaft arbor using the wrench provided. The lock pin(s) in the outer blade flange must go completely through the blade and into the matching hole(s) in the inside blade flange. **Tighten the blade flange bolt very securely** (Approximately 50 lb.ft.). Note that the blade shaft bolt on the right hand side has left hand threads, which tightens by turning counter clockwise.
4. **WARNING:** Do not operate without proper blade guard in place. Do not operate with front of blade guard raised. Blade exposure cannot exceed 180 degrees when cutting.
5. The front pointer must be checked for alignment with blade. It must be in line with a blade mounted shaft. Use a chalk line or a long straight edge to verify alignment.
6. Do not use conventional (wet) diamond blades without water! You must have from 2-1/2 to 5 gallons of water per minute flowing over the blade for proper cooling and to get maximum blade life. For wet sawing, are sure the spray holes in the blade guard tubes are open and that each side of the blade has an adequate supply of water. Test your water supply for pressure and flow before starting to saw.
7. Saw in a straight line. Mark the cutting line clearly so the saw operator can follow the line without difficulty. The saw should not be twisted from side to side trying to force the blade back on line.
8. Saw only as deep as the specifications and job conditions require. This will save blade life and reduce sawing costs. Sawing excessively deep is wasteful and should be avoided. Step cut in increments of 2 inches for best results.

TO START SAW

1. Fill the fuel tank and check the engine oil level. Refer to the engine manual for details.
2. Start engine. Follow procedure in engine manual.
3. Let engine warm up at half throttle.
4. All sawing is done at full throttle. Governor is factory set for correct engine speed.

TO STOP SAW

Push and hold down the stop button at the right, center of the control panel until the engine completely stops.

TO MANEUVER SAW

1. Raise blade as high as possible so blade will not strike pavement when maneuvering. Push handle towards ground while squeezing depth control lever. Release lever when height has been reached.
2. To turn, lift rear wheels just above pavement and maneuver saw as desired.

TO START SAWING

1. Align blade with cut.
2. For wet sawing open water valve **Full** open. Confirm flow and adjust before lowering into cut. If water supply is interrupted, stop cutting immediately.
3. Lower blade into cut (never deeper than required) by squeezing depth control lever. When the blade reaches desired depth, release lever.
4. During cutting do not exert excessive side pressure on handles to steer. Use only enough pressure to follow previously marked line.
5. Move the speed control handle forward until desired speed is obtained allowing the blade to cut and not climb out of cut or stall.
6. If the saw should stall for any reason raise the blade completely. When lowering the blade into a partially-made cut, use extreme care to be certain the blade is perfectly aligned within the cut before starting to cut again. Do not force blade into material by lowering blade to fast or by propelling too fast while sawing.

AT FINISH OF CUT

1. On self-propelled models, move speed control lever to neutral position.
2. Bring the blade out of the cut squeezing depth control lever while pushing handle towards the ground. Raise blade high enough to clear the pavement when maneuvering the saw.
3. Turn off water valve. .
4. Close engine throttle to idle position. Let engine cool down before stopping.
5. Do not leave the saw until the blade and saw have completely stopped.

CONCRETE SAW OPERATING INSTRUCTIONS

MAINTENANCE INSTRUCTIONS

1. **Lubricate the blade shaft bearings daily!** If cutting dry, lubricate blade shaft bearing two or three times daily. All other fittings (wheels, bearings, depth control shaft, etc.) should be greased every 40 hours of operation. Use only premium lithium-based grease conforming to NLGI No. 2 consistency.
2. **Check the engine oil daily.** Keep oil clean and at proper level. Since the engine often operates at an angle, check the engine oil level (with the engine horizontal) frequently to ensure that the oil level never fails below the minimum mark on the dip stick. Follow the engine manufacturer's recommendations for changing oil.
3. **Air filter.** When cutting dry, clean two or three times per day. See engine manual for additional information.
4. **Blade shaft V-belts tension:** This model concrete saw is equipped with 3VX premium V-belts. These belts are properly tensioned at the factory. Severe damage or even breakage of the crankshaft might occur if the belts are tensioned too tight. Check belt tension as set on the new saw and never set belts beyond original factory tension. Not enough tension will result in poor saw performance and short belt life. Belts should never be allowed to slip. After four hours of use, re-tension belts to make up for initial stretch. To re-tension the belts, turn the engine off. Loosen the four bolts on the sides of the engine base. Turn the vertical tensioning bolt on the front of the engine base clockwise until the belts are tight. Re-tighten the four bolts on the engine base. Continue to check the belt tension on a daily basis, and re-tension as necessary. To obtain accurate V-belt setting, a V-belt tension tester should be used. Check the setting on a single belt of a matched set of V-belts. Apply load on the center of the span. Deflection should be 3/16" with a 5 to 6 lb. load.
5. **Tighten fasteners regularly:** Nuts and bolts may become loose particularly after the first few hours of operation. Most fasteners on this unit are metric. Please use the correct tool
6. **Engine care:** See engine manual. Clean dust and dirt from cooling fans, as required, to provide adequate cooling.

WARNING: Over speeding the engine and blade shaft can cause serious damage to the blade and could result in injury to the operator and bystanders. Do not exceed the following speeds: No load blade shaft – 2800 RPM, no load engine – 3900 RPM.

BLADE SIZE	MAXIMUM DEPTH
10"	2-5/8"
12"	3-5/8"
14"	4-5/8"

GOVERNOR SPEEDS

It is critical that the governor and throttle on all internal combustion engines are adjusted properly. Engine speed is preset at the factory for proper sawing speed. It is not normally necessary to change this setting. It should be periodically verified after the saw is placed in service. To change governor setting, refer to the engine manual.