



**CORE CUT
OPERATOR'S MANUAL**

CC2525H

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Part #: 1802749-00

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Introduction

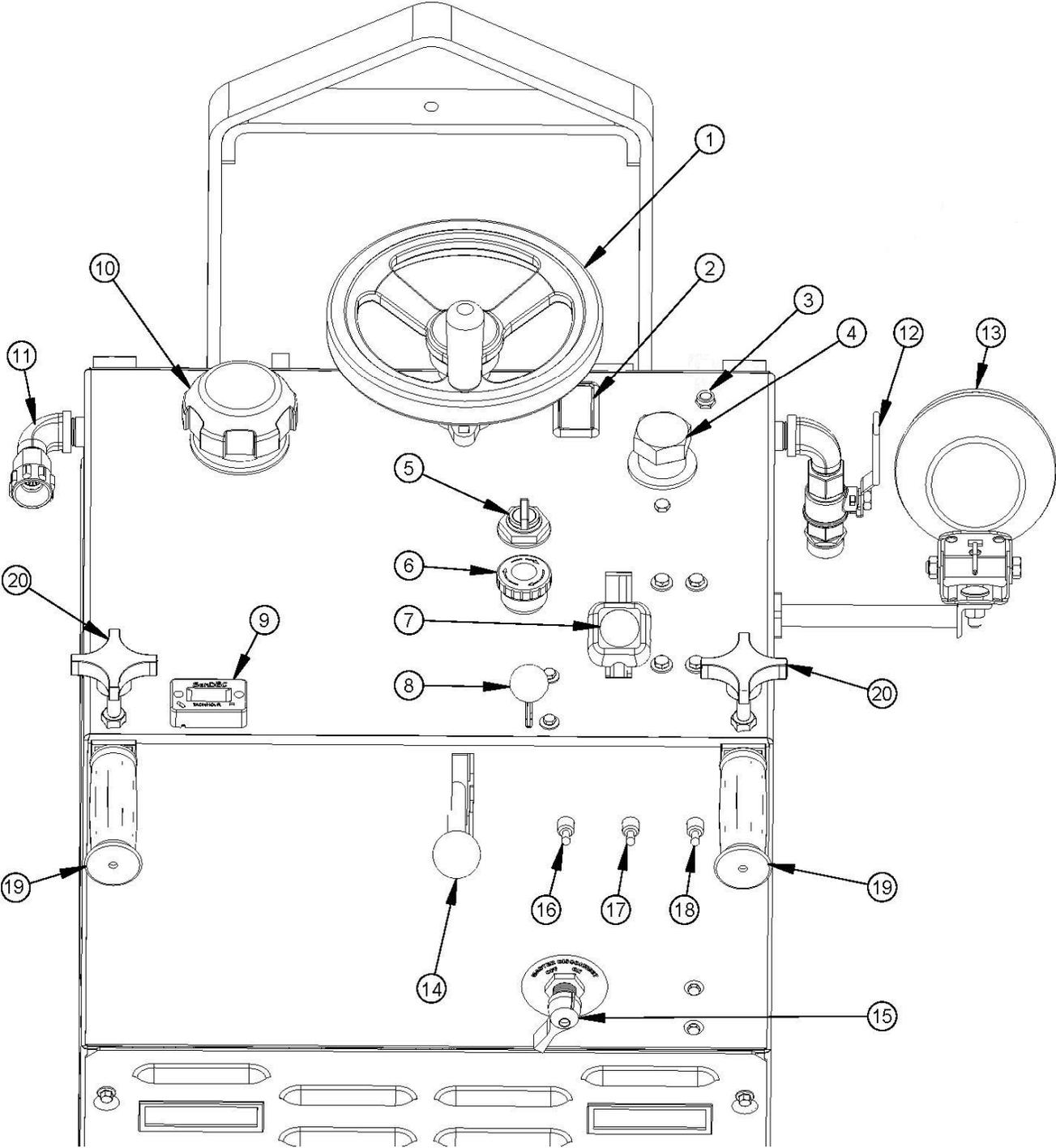
Welcome to the Diamond Products family and thank you for choosing Diamond Products equipment. At Diamond Products we are driven to ensure you are completely satisfied with your product and continually strive to improve our product line so that we can offer you the best possible equipment in the industry.

This operator's manual is a critical document that provides pertinent information regarding the safety, operation, maintenance, and care of your new equipment. Keep this manual available at all times. Operate the equipment and all of its components according to this manual. Failure to comply with and understand the following safety, operation and maintenance instructions can result in serious injuries and/or death. All operators must be properly trained or supervised by experienced personnel prior to using this equipment and should understand the risks and hazards involved. Diamond Products discourages improper or unintended equipment usage and cannot be held liable for any resulting damages.

Equipment modifications should be made by Diamond Products to ensure safety and design. Any modifications made by the owner(s) are not the responsibility of Diamond Products and void all equipment warranties if a problem arises as a result of the modification.

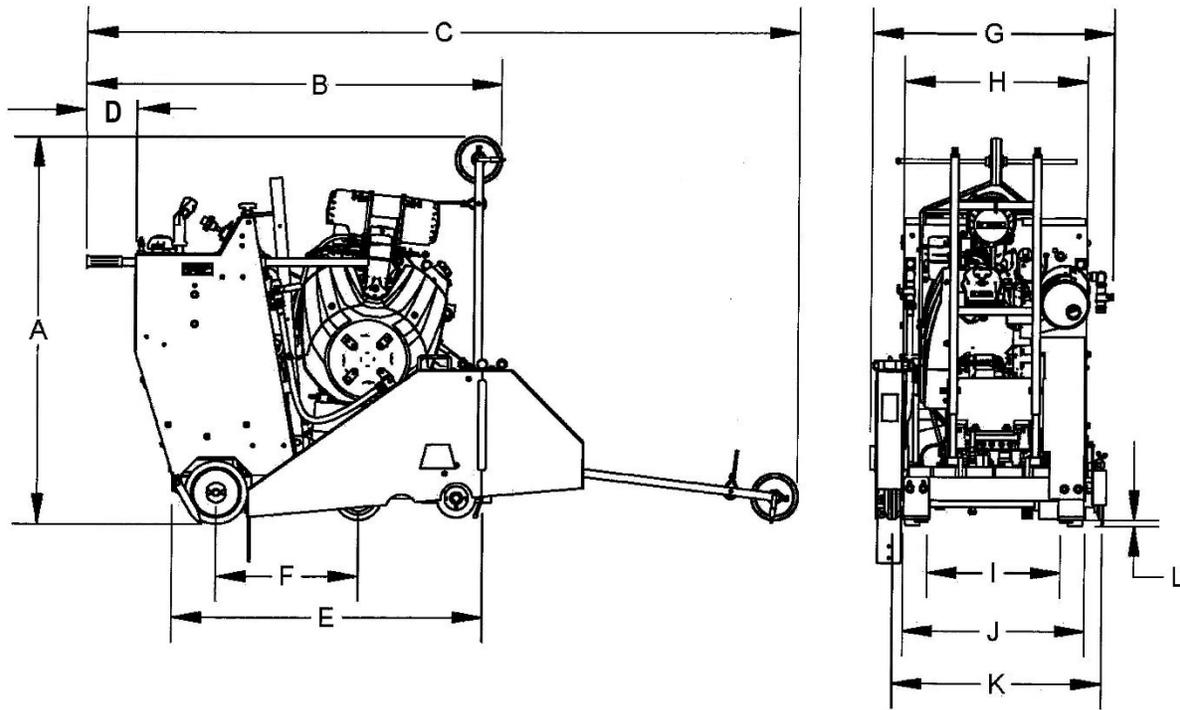
Refer to the Diamond Products Parts List for additional information and part diagrams. Refer to the engine/motor manual and manufacturer as the primary source for all safety, operations, and maintenance instructions regarding the engine/motor. Prior to operating, record the equipment's serial number, and the engine's/motor's model and serial numbers in Appendix C.

CC2525H Controls



1. **Handwheel** – Manually raises and lowers saw.
2. **Rocker Switch for: Hydraulic Raise and Lower (Optional) or Electric Raise and Lower (Optional)** – Raises and lowers saw.
3. **Low Oil Pressure Light** – Provides visual indication of a low oil pressure condition.
4. **Depth Indicator Pointer** – Allows the operator to view actual blade depth and to manually set the blade at zero.
5. **Ignition Switch** – Starts the engine and provides power to certain components.
6. **Emergency Stop Button** – Stops the engine.
7. **Travel Speed Control Lever** – Provides forward, reverse, and neutral control.
8. **Engine Throttle Lever** – Increases and decreases engine/blade speed (RPM).
9. **Tachometer/Hour Meter** – Provides visual indication of engine speed and collective operating hours.
10. **Fuel Cap** – Provides visual indication of fuel level and for the addition of fuel to the fuel tank.
11. **Water Inlet Connection** – Location for connecting the water source hose.
12. **Water On/Off/Metering Valve** – Turns water flow on or off and controls the flow rate to the saw blade.
13. **Spotlight (Optional)** – Illuminates the work area.
14. **Transmission Engagement Lever** – Engages and disengages the transmission to and from the rear axle assembly.
15. **Battery Disconnect Switch** – Cuts off all power from the battery to the saw.
16. **Water Safety Switch (Optional)** – When in the ON position, it will shut the engine down when no water flow is present.
17. **Water Pump Switch (Optional)** – Activates the optional water pump.
18. **Spotlight Switch (Optional)** – Activates the optional spotlight.
19. **2-Position Handle Bar** – Allows the operator to maneuver the saw with the handle bars in the 0° or 30° position.
20. **Handle Bar Locking Knob** – Locks the handle bar in position.

CC2525H Dimensions



CC2525H Dimensions		Inches	Millimeters
A	Saw Height	44	1118
B	Saw Length - Min.	50	1270
C	Saw Length - Max.	128	3251
D	Handle Extension - Max.	30	762
E	Frame Length	34-1/4	870
F	Wheel Base Length	19-1/2	495
G	Saw Width	26-1/2	673
H	Rear Frame Width	20	508
I	Front Wheels Inside Width	13-3/4	349
J	Rear Wheels Outside Width	20-1/2	521
K	Inner Flange to Inner Flange Width	23-1/2	597
L	Blade Raise Height - Max.	14	356

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CC2525H Specifications

CC2525H Specifications			
Saw Model	CC2525H-14	CC2525H-20	CC2525H-26
Blade Guard Capacity	14" (350mm)	20" (500mm)	26" (700mm)
Blade Cutting Depth Max	4.5"	7.5"	10.5"
Blade Shaft Speed ⁽¹⁾	2625 rpm @3600 Engine rpm	2625 rpm @3600 Engine rpm	2025 rpm @ 3200 Engine rpm
Blade Flange Size	5" OD	5" OD	5" OD
Engine Model	Honda iGX800		
Engine Type	V-twin, air-cooled, 4-stroke, OHV, electronic fuel injection		
Rated Output Power	29.4 hp (18.6 kW) @ 3600 rpm		
Peak Torque	40.2 lb.-ft (54.5 Nm) @ 2500 rpm		
Rated Speed	3600 rpm (Honda rating)		
Engine Oil	SAE 10W-30, 2.1 qt. (2.0 L)		
Fuel Type	Unleaded gasoline, 86 octane or higher		
Fuel Tank	4.4 Gallon (16.7 L) with dial gage level indication		
Battery	12 Volt (700 CCA) group size 34		
Hydraulic Lift Pump Fluid	Automatic Transmission Fluid (ATF); (2 Liter capacity)		
Lubrication Type	NLGI #2 Lithium grease		
Blade Arbor Size	1" Diameter with drive pin		
Blade Flange Style	Quick disconnect		
Blade Shaft Size	1-1/2" OD with left/right side blade mounting		
Blade Shaft Bearings	2 Pillow block bearings		
Blade Shaft Drive	5 V-Belts (3VX425)		
Blade Coolant	Dual stainless steel multi-jet spray tubes		
Blade Guard Attachment	Slip-on tapered spade		
Blade Raise and Lower (Hydraulic)	Electro-hydraulic power unit with push button control		
Blade Raise and Lower (Electric)	Ball drive actuator, 6" stroke, 20:1 reduction, 12VDC motor		
Blade Alignment	Telescoping front/rear left and right pointers		
Axle Size (Front/Rear)	Front: 1" OD straight / Rear: 1" OD straight		
Front Wheels	6" x 2" with 1" rubber tread (sealed roller bearings)		
Rear Wheels	8" x 2" with 1" poly tread		
Rear Wheel Transmission	Eaton Model 6 transmission with chain drive		
Transmission Belt	V-Belt (4L500)		
Rear Wheel Drive	Gear drive		
Handle Bar Adjustment	Variable extension with dual 0° and 30° angle range		

(1) Theoretical speed, actual speed may vary.

Safety

Operate the equipment and all of its components according to this manual. Failure to comply with and understand the following safety, operation and maintenance instructions can result in serious injuries and/or death. All operators must be properly trained or supervised by experienced personnel prior to using this saw and should understand the risks and hazards involved. Diamond Products discourages improper or unintended equipment usage and cannot be held liable for any resulting damages.

Equipment modifications should be made by Diamond Products to ensure safety and design. Any modifications made by the owner(s) are not the responsibility of Diamond Products and void all equipment warranties if a problem arises as a result of the modification.

Refer to the Diamond Products Parts List for additional information and part diagrams. Refer to the engine manufacturer as the primary source for all safety, operations, and maintenance instructions regarding the engine. Prior to operating, record the saw's serial number, and the engine's model and serial numbers in Appendix C.

Notice: The information in this manual may be updated at any time!

Safety Alerts



DANGER

Serious injuries and/or death will occur if these instructions are not followed.



WARNING

Serious injuries and/or death could occur if these instructions are not followed.



CAUTION

Mild and/or moderate injuries could occur if these instructions are not followed.

Proposition 65

PROPOSITION 65



WARNING: Concrete cutting produces dust that can expose you to chemicals including Silica, crystalline (airborne particles of respirable size), which is known to the state of California to cause cancer. For more information go to: WWW.P65WARNINGS.CA.GOV

Respiratory Hazards



WARNING

Concrete cutting produces dust and fumes known to cause illness, death, respiratory disease, birth defects, and/or other reproductive harm. Safety protection techniques include, but are not limited to:

- Wearing gloves.
- Wearing safety goggles or a face shield.
- Using approved respirators.
- Washing work clothes daily.
- Using water when wet cutting to minimize dust.
- Washing the hands and face prior to eating/drinking.

For additional safety and self-protection information contact your employer, the Occupational Safety and Health Administration (OSHA), and/or The National Institute for Occupational Safety and Health (NIOSH).

General Safety

- Read and understand all safety, operations, and maintenance instructions provided in this manual prior to operating or servicing the saw.
- Keep equipment components clean and free of slurry, concrete dust, and debris.
- Inspect water hoses prior to operating the equipment. Clean, repair, or replace damaged components.
- Raise the equipment to a proper height for access when working underneath the equipment. Use chocks to block the wheels, and fit blocks or jacks under the frame edges.



WARNING

Do NOT work on equipment using the hydraulic lift system to keep the equipment in the raised position for maintenance or repair. Accidental loss of hydraulic pressure could cause the equipment to drop suddenly, resulting in serious injury or death.

- When using a jack to raise the equipment, place the jack against a solid, flat area under the frame base to properly support the equipment.
- Repair the equipment immediately when a problem arises.
- Replace equipment decals if unreadable.
- Dispose of all hazardous waste materials according to city, state, and federal regulations.
- Always have a phone nearby, and locate the nearest fire extinguisher and first aid kit prior to operating the equipment.
- Operate the equipment wearing flame resistant clothing.
- Always wear safety glasses when removing retaining rings.
- Underage or non-trained personnel should not operate the equipment.
- Keep all body parts away from rotating machinery.
- Replace all guards and access panels (unless stated otherwise) prior to operating the equipment.
- Always pivot front of blade guard fully closed to avoid serious injuries.

DO NOT:

- Assume the equipment will remain still when in STOP or when parking/stopping the equipment on a slope. Chock the wheels to help prevent unnecessary movement.
- Drop equipment, supplies, tools, etc., when handling to help prevent injuries.
- Lift and carry equipment, supplies, tools, etc., that are too heavy and/or cannot be lifted easily.

- Operate the equipment without using the appropriate safety equipment required for the work task.



- Operate or service the equipment with any clothing, hair, or accessories that can snag in the machinery, which could lead to serious injuries or death!
- Operate the equipment using attachments not associated with or recommended for the equipment.
- Operate the equipment around combustible materials.
- Operate the equipment with anyone near the work area or within the direct line of the blade.
- Operate the equipment until all unnecessary materials have been removed from the work area.
- Operate the equipment with loose nuts, screws, and bolts.
- Operate the equipment when ill or fatigued.
- Operate the equipment under the influence of drugs and/or alcohol.
- Operate the equipment on steep slopes.
- Cut concrete with guards and access panels removed.
- Grease the equipment with the engine running.
- Touch hot components when operating the equipment.
- Leave the equipment unattended until the engine is off and the blade has stopped.
- Place the equipment into storage until it has cooled down.
- Service the equipment until it has cooled down.
- Service the equipment with the engine running.

Battery and Electrical Safety

- Ignitable explosive gases are emitted from the battery. DO NOT expose the battery to sparks or open flames. 
- Keep the area around the battery well-ventilated.
- Keep the battery level when handling it.
- Use protective eyewear or a face shield, and avoid contact with the skin when handling/servicing the battery.
- Use a proper battery tester when testing the battery strength.
- Always be sure to connect the battery cables to the proper terminal when reconnecting the cables.
- Occasionally inspect the battery, cables, clamps, and terminals for damages. Service components as necessary.
- Always keep the battery cable clamps away from the battery terminals when the battery is disconnected to avoid accidental connections while servicing.
- Immediately rinse your clothing, skin, or eyes with water if exposed to battery acid. Seek medical attention immediately!
- Disconnect the battery prior to servicing all equipment components (unless stated otherwise).
- Remove the battery when storing the equipment for longer periods.
- Always use the correct size fuses (amps) to prevent fires.

Blade Safety

- Always use reinforced abrasive blades or steel-centered diamond blades.
- Never use a wet cutting blade without an adequate water supply to properly lubricate the blade.
- Inspect all blades prior to usage and discard damaged blades.
- DO NOT install or remove a blade with the engine running.
- Keep all body parts away from rotating blades.
- Inspect the blade flanges for damages, wear, and cleanliness. Clean or replace dirty/damaged components immediately.

- DO NOT expose yourself or anyone else to the direct line of the blade when operating the equipment.



- Always use an appropriate size blade and the correct blade type based on the cutting task and the type of material being cut.
- The blade must always fit snug on the blade shaft, outer flange, and/or inner flange.
- Wear gloves and be alert to the surrounding environment when handling blades.
- When installing the blade, always point the arrow printed on the blade in the direction of the blade shaft's rotation.
- DO NOT exceed the blade's maximum recommended speed when cutting. Excessive blade speeds can cause blade breakage, resulting in serious injuries and/or death!
- DO NOT use damaged blades when cutting to avoid harming yourself, others, or the equipment.
- DO NOT use a blade for cutting that requires a lower speed than the blade shaft speed.
- Always tighten the blade shaft bolt/screw as directed to properly secure the outer flange and blade. Failure to properly secure the outer flange and blade may cause parts to loosen or fall off the equipment, resulting in serious injuries or death!
- Let the blade cool prior to removal when dry cutting (applicable models).

Blade Guard Safety

- DO NOT operate the equipment with the blade guard raised or removed.
- Blade exposure should not exceed 180° while cutting.
- When pivoting the front of the blade guard, raise/lower it cautiously and slowly to avoid serious injuries.
- DO NOT pivot the blade guard front up or down when installing/removing very large blades. Attempting to pivot the front of a heavy guard when the guard is positioned higher up for blade installation/removal makes the guard difficult to lift and/or lower. In this situation, install/remove the blade guard front instead of pivoting it.

- Always pivot the front of the blade guard 180° (fully upward) so the guard does not swing down unexpectedly, causing serious injuries.



- Always secure the pivoted section of the blade guard using the detent pin (guards 26" and up).
- Use extreme caution when installing/removing parts of a guard or the entire guard as guards can be extremely heavy and may require installation/removal at moderate heights.
- DO NOT install or remove the blade guard with the engine running.
- Always use a blade guard that corresponds with the blade size.
- Inspect the blade guard and water tubes prior to starting the equipment. Clean or replace dirty/damaged components immediately.

Cutting Safety

- The direct work area should not contain buried or embedded electrical, gas, or water lines that could be damaged and/or cause personal injury while cutting.
- Turn off all electricity, gas, and water around the direct work area prior to cutting.
- Inspect the work area to ensure nothing will impede full control of the machine at all times.
- DO NOT expose yourself or anyone else to the direct line of the blade when operating the equipment.
- DO NOT allow any person, animal, and/or objects in and around the work area while cutting.
- DO NOT install a blade on the machine until it is in the cutting area.
- Ensure the work area is adequately illuminated to ensure safe operation of the machine.

Hydraulic Safety

- Turn off the engine prior to servicing hydraulic components.
- Lower the equipment completely prior to servicing to decrease the hydraulic pressure in the lines.
- Always make sure any hydraulic components being serviced are not supporting the weight of other equipment components. If a particular component is under pressure when connection points are loosened, oil may spray out forcefully.

- Always place a piece of cardboard or paper up against hydraulic components, or use a leak detection fluid to check for hydraulic fluid leaks. Keep all body parts away from leaks and/or areas that may eject hydraulic fluid. Pressurized hydraulic fluid can penetrate the skin, causing serious injuries. Seek medical attention immediately!



Belt Safety

- Turn off the engine and let the belts cool down prior to servicing them.
- Regularly inspect the belts for fraying, stress cracks, and/or breakage and replace immediately when damaged. Always check the belt alignment prior to operating the equipment.
- Use extreme caution when working with belts and rotating machine parts to avoid entanglement.
- Over-tensioning belts may reduce the life of the gearbox bearings. Under-tensioning belts may cause slippage, shorter belt life, and/or poor equipment performance.
- Squealing belts indicate looseness.
- DO NOT use old and new belts together on the same sheave.

Operating

General Operating Precautions

- Prior to operating the machine, read the operator's manual thoroughly and ensure that you understand the safe and proper operation of the machine.
- Use approved personal protective equipment at all times while operating the machine.
- Ensure that there is firefighting equipment and a first aid kit nearby while operating the machine.
- Ensure the cutting area is free of obstructions, people, and or animals prior to operating the machine.
- Always operate the machine from the operator's position at the rear of the machine between the handlebars.
- Do not stand in front or behind the blade path while the engine is running.

Emergency Stop

If an emergency condition should arise, the machine is equipped with an emergency stop button located on the top of the control panel. The emergency stop places the machine into safe mode allowing the operator to address the emergency condition.

NOTE: Only use the emergency stop in an emergency condition. Do not use it to stop the machine during normal operations.



Emergency Stop Button

Activating the Emergency Stop

To activate the emergency stop, press down on the emergency stop button. The engine will shut off placing the saw in a safe condition.

Deactivating the Emergency Stop

Prior to deactivating the emergency stop, ensure that the machine is back into a safe operating condition. Then turn the emergency stop button clockwise until it springs back into position. The machine can now be restarted.

Handlebars

The handlebars help to guide and maneuver the saw.

Adjusting the Handlebars

1. Loosen both of the handlebar lock knobs.
2. Hold the handlebar grip and place the first handlebar into the handlebar opening below the handle lock knob. The handlebar can fit through two different angled pathways inside the handlebar opening. Select the handlebar angle that works best for the current task.
3. Move the handlebar forward or backward to adjust the length.

NOTE: Maintain a minimum of 6" of handlebar into the handlebar tube at all times.

4. Tighten the handlebar lock knob to secure the handlebar.



Handlebar and Lock Knob

5. Repeat steps 2 – 4 to secure the second handlebar. Adjust the handlebar orientation and length prior to operating the saw.

Handwheel

The handwheel raises and lowers the saw and blade.

NOTE: The saw can be raised and lowered with the engine/motor off.



Handwheel

Raising the Saw

1. Pull out the index plunger and turn it 90° to remove from the plunger groove. Turn the handwheel counterclockwise to raise the saw.
2. Turn the index plunger 90° to lock it back into the plunger groove. Turn the handwheel slightly to lock the handwheel.

Lowering the Saw

1. Pull out the index plunger and turn it 90° to remove from the plunger groove. Turn the handwheel clockwise to lower the saw.
2. Turn the index plunger 90° to lock it back into the plunger groove. Turn the handwheel slightly to lock the handwheel.

Electric Raise and Lower (Optional)

An optional 12V electric drive motor is available for raising and lowering the saw. A rocker switch located on the control panel is installed to allow the operator to raise the blade out of a cut or lower the blade into a cut.

Hydraulic Raise and Lower (Optional)

An optional electro/hydraulic pump is available for raising and lowering the saw. A rocker switch located on the control panel is installed to allow the operator to raise the blade out of a cut or lower the blade into a cut.

Speed Control Lever

The speed control lever places the saw in neutral (no movement), forward, or reverse.

Note: The engine must be running and the transmission must be engaged to move the saw using the speed control lever.



Speed Control Lever

Forward Control

Push the speed control lever forward to reach the proper traveling speed. The maximum speed the saw will move forward, at full throttle, is 130 ft/min.

Reverse Control

Pull the speed control lever backward to reach the proper traveling speed. The maximum speed the saw will move backward, at full throttle, is 130 ft/min.

Neutral Control

Place the speed control lever at *Neutral* to stop the saw. DO NOT assume at any time that the transmission will act as a brake in neutral.

Battery



WARNING

- Ignitable explosive gases are emitted from the battery. DO NOT expose the battery to sparks or open flames, and keep the area around the battery well-ventilated.
- Disconnect the battery prior to servicing the saw (unless stated otherwise).
- Always keep the battery cable clamps away from the battery terminals when the battery is disconnected to avoid accidental connections while servicing.
- Always be sure to connect the battery cables to the proper terminal when reconnecting.



CAUTION

- Use a proper battery tester when testing the battery strength.
- Use protective eyewear or a face shield and avoid contact with the skin when handling/servicing the battery.

The saw contains a charged battery with one positive cable lead and one negative cable lead. The battery can be accessed by removing the rear cover screen.



Battery

Battery Type

12 Volt, Group 34

Battery Disconnect

A master battery disconnect switch is located on the operator's side of the upright assembly. The switch allows for connecting or disconnecting the battery's circuit.



Battery Disconnect Switch

Activating the Battery Circuit

To activate the battery circuit, turn the disconnect switch to the ON position. This will connect all power from the battery to the saw.

Deactivating the Battery Circuit

To deactivate the battery circuit, turn the disconnect switch to the OFF position. This will cut all power from the battery to the saw.

Transmission Engagement Lever

Disengage the transmission using the engagement lever, located on the front of the upright assembly, prior to starting the engine to prevent unnecessary saw movement. The engine must run at half throttle or greater for proper transmission efficiency when maneuvering the saw with power.



Transmission Engagement Lever

Engaging the Transmission

1. Place the speed control lever at Neutral.
2. Start the engine.
3. Push the transmission engagement lever down to engage.

Disengaging the Transmission

1. Place the speed control lever at Neutral.
2. Pull the transmission engagement lever up to disengage.

Maneuvering the Saw Manually

1. Extend the handlebars to a desired location for best leverage.
2. Raise the blade as high as possible to prevent it from striking the ground.
3. Place the speed control lever into the neutral position.
4. Lift the rear wheels to just above the pavement and manually maneuver the as required.

Maneuvering the Saw with Power

NOTE: When maneuvering the saw using power, the engine should be running at one half throttle or greater so the transmission can operate efficiently. For maximum speed in forward or reverse, the engine must be running at full throttle.

1. Extend the handlebars to a desired location for best leverage.
2. Raise the blade as high as possible to prevent it from striking the ground.
3. Place the speed control lever into the neutral position.

4. Engage the transmission drive.
5. Move the speed control lever in either the forward or reverse direction to maneuver the saw as required.

Fuel System



WARNING

Always use caution when refueling. DO NOT operate the saw with a fuel leak. DO NOT fuel the saw with the engine running. DO NOT smoke or expose fuel to open flames when filling the fuel tank or working with fuel.



CAUTION

Clean up any spilled fuel prior to starting the engine. Fuel may seep out from the fuel cap vent (applicable models) when raising the saw if the fuel tank is overfilled.

Adding Fuel

1. Lower the saw to level the frame.
2. Turn off the engine and let the saw cool down.
3. Remove the fuel tank cap.
4. Fill the fuel tank with unleaded, 86 octane or higher, fuel only. DO NOT overfill the tank for expansion purposes. Refer to the engine manual for additional information.
5. Replace the fuel tank cap and secure.

Fuel Shutoff Valve

A ball valve is provided below the fuel tank. During operation the shutoff valve must be open to provide fuel to the engine. When not in operation it is best to have the shutoff valve closed.

Water Supply

The water supply cools the blade and minimizes dust when cutting. There are two blade guard hose connections on the saw, one on the right side and one on the left. The connection on the right side has a water cutout valve to start and stop the flow of water to the blade. The left side has a hose connection for attaching the water source hose.

Note: Always test the water supply for adequate pressure and flow prior to cutting.

Using the Water Supply

1. Connect the water source hose to the water source hose connection on the left side of the saw.



Water Supply Hose Connection

2. Connect blade guard water hose, from the right side valve connection to the manifold on the blade guard.
3. Begin the flow of water from the source to the saw.
4. Just before cutting, open the water valve lever to begin water flow to the blade.



Water Flow Control Valve

5. Increase and decrease the water flow while cutting using the water valve lever on the valve connected to the water supply hose.
6. Shut the water valve lever and disconnect the water source hose from the saw when finished.

7. Disconnect the water supply hose from the blade guard manifold as necessary.

Water Pressure Switch (Optional)

The water pressure switch will shut the engine off if a low water pressure condition exists. Once water is supplied to the saw, turn the water pressure switch to *ON*. The switch is located on the front of the upright. When the cutting is complete, turn the pressure switch to *OFF* before shutting off the water from the water source.

Water Pump (Optional)

The water pump directs cooling water to the blade and minimizes dust when cutting.

1. Ensure all water supply lines are connected.
2. Ensure that the water valve located on the right side of the upright is in the *OFF* position.
3. Turn on the water pump switch, located on the front of the upright, to start the pump. **DO NOT** start the water pump until just before cutting. **DO NOT** leave the water pump on when the cutting task is complete to avoid draining the battery.
4. Push the water valve to the *ON* position.
5. When cutting is complete, move the water valve to the *OFF* position.
6. Turn off the water pump switch *OFF* to stop the pump.

Engine

Refer to the engine manual as the primary source for information.

! WARNING

Operate the saw in well-ventilated areas. Concentrated engine exhaust can cause loss of consciousness and/or death.



DO NOT touch the engine/muffler with the engine running, and always let them cool down prior to touching or servicing the saw.

DO NOT leave the saw unattended while the engine is running.

Tasks Prior to Starting the Engine

Complete the tasks listed below prior to starting the engine to ensure a safe start:

- Check fluids and fill to appropriate levels.
- Place speed control lever at *STOP*.
- Disengage transmission.
- Turn off controls and switches.
- Remove tools from area.

NOTE: The engine will not start with the emergency stop button pushed down. Always pull out the emergency stop button prior to operating the saw.

Starting the Engine

1. Open the fuel shutoff valve or move the fuel shutoff lever to the open or on position.
2. Ensure that the battery disconnect switch is in the ON position.
3. Insert the key into the ignition, turn the key to *Start*, and release the key when the engine starts. If the engine does not start, release the key and try again shortly.

Note: Refer to the engine manual if the engine does not start after two attempts.

4. Increase the throttle to the fastest position for maximum efficiency. DO NOT exceed the maximum recommended cutting speed when operating the saw.

Stopping the Engine

1. Decrease the throttle to the slowest position for several minutes.
2. Turn the ignition key to *Off*.
3. Close the fuel shutoff valve.
4. Turn the battery disconnect switch to the OFF position

Blade Guard



WARNING

DO NOT operate the saw with the blade guard raised or removed.
DO NOT remove the blade guard with the engine running.
Blade exposure should not exceed 180° while cutting.

Always pivot the front of the blade guard 180° (fully upward) so the guard does not swing down unexpectedly, which may cause serious injuries.



When pivoting the front of the blade guard, raise/lower it cautiously and slowly to avoid serious injuries.

The blade guard shields the blade and must always be in place when operating the saw. Blade guards generally stay in place at all times, except for when changing to another guard size or when using the guard on the opposite side of the saw. Regularly inspect the blade guard, the guard mount and water tubes. Clean, repair, or replace dirty or damaged components immediately.

NOTE: Always use a guard size that matches the blade size.

Installing the Blade Guard

Always install the blade guard with the blade off the saw.

1. Holding the blade guard handle, face the front of the blade guard forward and fit the tapered mount on the side of the guard onto the tapered mount on the frame.



Tapered Blade Guard Mount

2. Connect the water supply hose to the blade guard.

Removing the Blade Guard

Always remove the blade guard with the blade off the saw.

1. Disconnect the water supply hose from the blade guard.
2. Use the handle on the blade guard to rock the guard back and forth while lifting the guard off the frame mount.

Flange Guard

Install the flange guard over the blade flange that is not in use.

Installing the Flange Guard

1. Fit the tapered mount on the back of the flange guard onto the tapered mount on the frame.
2. Insert the locking pin into the hole in the tapered mount on the frame to secure.



Flange Guard Installed

Removing the Flange Guard

1. Remove the locking pin from the tapered mount on the frame.
2. Remove the flange guard from the tapered frame mount.

Diamond Blades



WARNING

DO NOT exceed the blade's maximum recommended speed when cutting. Excessive blade speeds can cause blade breakage, resulting in serious injuries and/or death. DO NOT use damaged blades when cutting to avoid harming yourself, others, or the saw.



Using the proper blade (size and type) preserves the blade and improves efficiency, resulting in lower costs. Refer to the Association of Equipment Manufacturers (AEM) safety brochure for diamond blades and www.diamondproducts.com for additional blade information.

Inspecting the Blade

Inspect each blade prior to installation and discard all damaged blades. Inspect the blades for:

- Cracks, nicks, and dents
- A damaged/deformed arbor (center hole)
- Darkness/discoloration near edge of blade
- A deformed blade circumference
- Segment loss/cracks
- Core wear
- Bending
- Uneven side-widths

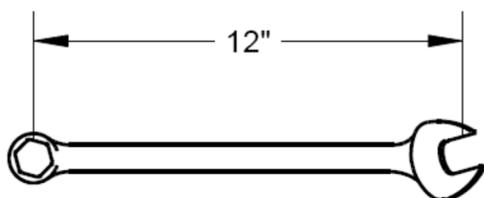
Blade Speed

Refer to the blade, or the blade packaging information for the recommended blade speeds when cutting. DO NOT exceed the maximum recommended blade speed. DO NOT use a blade for cutting that requires a lower speed than the minimum blade shaft speed.

Wrench

Use the wrench provided when installing or removing a blade. Apply force to the opposite end of the wrench and tighten the blade shaft bolt/screw to 125 ft-lb (170 Nm) minimum to secure the outer flange and blade.

NOTE: 125 ft-lb is equivalent to applying 125 pounds at the end of a 12" wrench.



Wrench

Installing the Blade

⚠ WARNING

DO NOT install a blade with the engine running.

Failure to properly secure the outer flange and blade may cause parts to loosen or fall off the saw, resulting in serious injuries or death!

DO NOT pivot the front of the blade guard up or down when installing very large blades. Attempting to pivot the front of a heavy guard when the guard is positioned higher up for blade installation makes the guard difficult to lift and/or lower. In this situation, remove the blade guard front instead of pivoting it.




⚠ CAUTION

Wear gloves and be alert to the surrounding environment when handling blades.

NOTE: When changing blade sizes, ensure to adjust and/or change all necessary belt drive components in accordance with the CC2500 Parts List.

The blade can be installed on the right or left side of the saw. Install the blade on the side preferred or most appropriate for the cutting task.

1. Select a blade size and type. Remember to check the blade for damages and discard as necessary.
3. Pivot the front of the blade guard 180° (fully upward) to gain access to the blade flanges.
4. Remove the blade shaft bolt using the provided wrench.

NOTE: Clockwise loosens on right side, counterclockwise loosens on left side (when viewed from the operating position) using the provided wrench.

5. Carefully remove the outer flange. Inspect the flange assembly and clean or replace dirty/damaged components.
6. Align and fit the outer flange and flange pin through the blade.
7. Place the blade and outer flange into the alignment hole and blade arbor of the inner flange. For large blades, carefully roll the blade up to the inner flange. Adjust the height of the saw to align the flange and blade arbor.

NOTE: Point the arrow stamped on the blade in the direction of the blade shaft's rotation.

NOTE: The outer flange should fit snug with the blade, inner flange, and blade shaft.

8. Slightly rotate the outer flange and blade in the opposite direction of the blade rotation to eliminate backlash (looseness) between parts.
9. Place the wedge lock washer onto the blade shaft bolt and insert the bolt into the blade shaft through the center of the outer flange.
10. Tighten the bolt by hand. Slowly lower the saw, if necessary, until the blade just touches the ground.
11. Tighten the bolt again, using the wrench, to 125 ft-lb (170 Nm) minimum to secure the outer flange and blade.
12. Pivot the front of the guard down over the blade to secure.

Removing the Blade

CAUTION

DO NOT remove a blade with the engine running.

DO NOT pivot the front of the blade guard up or down when removing very large blades. Attempting to pivot the front of a heavy guard when the guard is positioned higher up for blade removal makes the guard difficult to lift and/or lower. In this situation, remove the blade guard front instead of pivoting it.



1. Pivot the front of the blade guard 180° (fully upward) to gain access to the blade flanges.
2. Slowly lower the saw, if necessary, until the blade just touches the ground.
3. Remove the blade shaft bolt using the provided wrench.
4. Carefully remove the outer flange and blade. Place the blade in an appropriate storage location.

NOTE: If the outer flange is difficult to remove, tighten screws into two of the holes on the outer flange to help separate the outer flange from the blade.

3. Inspect the flange assembly and clean or replace dirty/damaged components.
4. Carefully fit the outer flange back into the inner flange and blade shaft.
5. Place the wedge lock washer onto the blade shaft bolt and insert the bolt into the blade shaft through the center of the outer flange.
6. Retighten the blade shaft bolt to secure the flanges.
7. Pivot the front of the guard down over the blade flanges to secure.

Spotlight (Optional)

1. Loosen both spotlight bar lock knobs and slide the bar from side to side to adjust the length of the bar.



Spotlight and lock knobs

2. Tighten the lock knobs to secure.
3. Turn the spotlight switch ON or OFF as needed for additional lighting.

Concrete Cutting

WARNING

- DO NOT expose yourself or anyone else to the direct line of the blade when operating the saw.
- The direct work area should not contain buried or embedded electrical, gas, or water lines that could be damaged and/or cause personal injury while cutting.



NOTE: Always raise the blade to provide proper clearance between the blade and the ground when maneuvering the saw.

Helpful Hints Prior to Cutting

Keep the following in mind for better efficiency while cutting:

- Use just enough handle pressure to guide the saw down the cutting line. DO NOT forcibly direct (twist) the saw from side to side when cutting. DO NOT jam, cock, or wedge the blade in a cut.
- Moving too quickly when cutting may stall the saw or may cause the blade to climb out from the cut. If the saw stalls while cutting, put the saw in STOP and raise the blade from the cut to restart the engine.
- Avoid sawing excessively deep to preserve the blade and reduce sawing costs.
- DO NOT lower the blade too quickly or move the saw forward too quickly when finishing a partial cut to avoid forcing the blade into the concrete.
- Always have a proper water flow when cutting for maximum blade efficiency. Using too much water when cutting will make the

slurry look clear. Not using enough water will make the slurry look thick and pasty.

- Refer to the Diamond Products' Guide for Professional Concrete Cutters for additional cutting tips and information.

Tasks Prior to Cutting

Complete the following tasks prior to cutting:

- Align the cutting guide(s) with the blade.
- Clearly mark the cutting line.
- Turn off all electricity, gas, and water around the direct work area.

Making a Cut

1. Align the blade and cutting guide(s) with the cutting line.
2. Turn on the water and adjust the water flow.
3. Turn on the *Water Pressure* switch (Optional).
4. Turn on the *Water Pump* switch (Optional) if needed.
5. Lower the blade to just above the cutting surface and set the cutting depth indicator at zero.



Cutting Depth Indicator

6. Slowly lower the blade into the concrete surface to a depth of two inches for the initial cut. Make the two-inch deep pass across the entire cutting line using the most efficient blade speed and traveling speed. DO NOT cut to the maximum depth in one pass.

NOTE: Always use the step-cut method when cutting for maximum efficiency. For example, when cutting to a depth of ten inches, begin with a two-inch deep pass, then a four-inch deep pass, and finish with another four-inch deep pass to complete the cut.

7. Raise the blade out of the cut and reposition the saw at the end of the cut. DO NOT move backwards in a previous cut.
8. Starting at the end of the cut, lower the blade back into the cut and make another two-inch deep pass or a deeper pass across the entire cutting line.

NOTE: When not using the depth stop, pay attention to the cutting depth indicator at all times when lowering the blade back into the cut or when making a new cut, as the blade will not automatically stop at the desired depth.

9. Raise the blade out of the cut, reposition the saw, and continue the step-cut process to reach the maximum depth. DO NOT cut any deeper than required.

Continuing a Partial-Cut

1. Maneuver the saw to the desired location.
2. Align the blade with the previous cut and slowly lower the blade back into the concrete. Use extreme caution to make sure the blade is perfectly aligned within the cut. DO NOT continue cutting until the blade is aligned within the cut!
3. Continue the step-cut process (using the *Blade Depth Stop* if preferred) to reach the maximum depth. DO NOT cut any deeper than required.

Finishing a Cut

1. Place the speed control lever in NEUTRAL.
2. Raise the blade from the cut (provide proper ground clearance).
3. Turn off the *Water Pump* switch and *Water Pressure* switch.
4. Turn off the water supply.

Maintenance

General

Failure to read and comply with the maintenance instructions provided in this manual prior to performing maintenance may result in serious injuries and/or death, and may harm the saw. DO NOT attempt to perform maintenance on the saw if you are not properly trained for it, or are not supervised by an experienced person.

Refer to the CC3500J Parts List for additional information and part diagrams when performing maintenance tasks. Refer to the engine manufacturer as the primary source for all safety, operations, and maintenance instructions for the engine. Contact the saw and/or engine manufacturer with any additional questions.

Remove all necessary guards and access panels prior to servicing the saw. Replace prior to operating.

Pre Maintenance Preparations

- Ensure the saw is in a safe area to conduct maintenance.
- Maintain proper cleanliness of the work area to minimize personnel injury or equipment damage.
- Ensure the saw is sufficiently cool to conduct any maintenance.
- Remove the cutting blade prior to starting any maintenance.
- Ensure there is adequate lighting in the work area to ensure safety.
- Ensure all equipment and tools required for the maintenance task are staged and available for use.
- Prior to any maintenance being performed, know the locations of all safety equipment such as fire extinguishers, first aid kits, etc.
- All maintenance shall be performed by qualified personnel only.

Rear Cover Screen

The rear cover screen is a versatile component in regards to maintenance of the machine. It can be removed to gain access to components within the upright assembly.

General Cleaning

The saw must be cleaned after each use and prior to conducting any maintenance. Ensure that the saw is cool prior to cleaning. Ensure affected electrical equipment is properly covered or de-energized prior to cleaning with water or air.

Cleaning Techniques

Various cleaning options can be utilized depending on the type of cleaning required. High pressure washers and a mild detergent will work the best. Compressed air and low pressure water can also be utilized where required.



Care must be taken when using high pressure water and compressed air to conduct any maintenance or cleaning. High pressure water and compressed air can cause injury to personnel or damage to equipment if not used properly.

Engine

Use a mild detergent and water to clean the engine. Do not spray water forcefully on the engine to prevent damage to components.

Part Lubrication

 **WARNING**
DO NOT grease parts with the engine running.



Lubricate all necessary parts on schedule for maximum saw efficiency. Occasionally lubricate controls, cables, hinges, latches, and linkages with a spray lubricant when movement becomes stiff and/or sluggish. Use one to two full pumps of NLGI No. 2 premium, lithium-based grease when lubricating all grease fittings.

NOTE: Use more grease on bearing grease fittings if they are too hot to touch after completing work.

Post Cleaning

- Lubricate the machine as required.
- Dry all electrical components using compressed air.
- Do not start the machine until it has had time to thoroughly dry.

Service Schedule

The service schedule is based primarily on the standard operating time of the machine. The frequency of the maintenance tasks can be increased based on the working environments of the machine.

Task	Cycle				
	Daily	100 Hrs.	200 Hrs.	300 Hrs.	500 Hrs.
Visually inspect saw for damage and repair as necessary	X				
Wipe down and clean all components for dust, debris, and slurry	X				
Check that all safety guards are in place and in good operating condition	X				
Inspect vthe skid plates for damage and clean, repair or replace as necessary	X				
Inspect all belts for tension or wear and re-tension or replace as necessary	X ¹				
Check for loose or frayed wiring. Repair or replace as necessary.	X				
Check for loose nuts and bolts and retighten	X				
Check engine oil level	X				
Check fuel level	X				
Check hydraulic fluid level	X				
Lubricate blade shaft bearings (End of work day)	X				
Clean air filter		X ²			
Replace engine oil		X			
Lubricate front axle bearings		X ²			
Lubricate rear axle bearings		X ²			
Lubricate transmission jackshaft bearings		X ²			
Check and adjust spark plugs		X			
Replace engine oil and filter			X		
Replace spark plugs				X	
Replace fuel filter				X	
Replace air filter					X ³

- 1 - Initially inspect the belt after the first four hours of operation and then daily.
- 2 - Service more often as required.
- 3 - Or 1 year whichever occurs first.

Daily Service

Check Engine Oil Level

Ensure the engine is off, in a level position, and has had time to cool down.

1. Remove the dipstick from the front of the engine.
2. Wipe the dipstick off with a clean rag.
3. Re-insert the dipstick back into the filler neck but do not tighten.
4. Pull the dipstick out and visually check the oil level.
5. If the oil level is low, fill with SAE-10W30 oil to the point of almost overflowing from the filler neck.
6. Re-install the dipstick and tighten to secure.

Check Fuel Level

Ensure the engine is off, in a level position, and has had time to cool down.

1. Remove the fuel filler cap and visually inspect the fuel level in the tank.
2. If the tank is low, refill using 86 octane, or higher, unleaded fuel.
3. Fill only to the bottom of the fuel filler neck or lower. DO NOT OVERFILL THE TANK.

Check Hydraulic Fluid

(Hydraulic Lift Option)

Check the hydraulic fluid level regularly and add fluid as necessary. If the hydraulic lift pump reservoir is below the halfway point in the tank, add hydraulic fluid.

1. Lower the saw to the ground so it is level (to provide an accurate fluid reading).
2. Remove the right side pump guard from the upright to view the hydraulic pump reservoir tank.
3. If the tank is less than half full, remove the cap on the hydraulic pump reservoir.
4. Fill the reservoir to half full with Mobil multi-purpose automatic transmission fluid.
5. Replace the cap on the reservoir.
6. Reinstall the right pump guard.

Lubricate the Blade Shaft Bearings

At the end of each work day, lubricate the two front blade shaft bearings. The bearings are located under the front of the saw.

1. Add no more than two pumps of bearing grease into each of the two blade shaft bearing grease fittings.

100 Hour Service

Replace Engine Oil

Drain the used oil when the engine is warm. Warm oil drains quickly and completely.

1. Place a suitable container below the oil drain hose assembly to catch the used oil.
2. Remove the oil filler cap/dipstick from the engine.
3. Remove the 1/4" cap from the end of the oil drain hose and allow oil to drain from the engine.
4. When all oil has been drained, replace the cap onto the drain hose and tighten completely.
5. Dispose of the oil in accordance with all city, state, and federal regulations.
6. With the engine in a level position, fill with the recommended oil (see the gas engine specifications located in the Introduction section of this manual).
7. Fill to the upper limit point (bottom edge of the oil fill neck).
8. Re-install the oil filler cap/dipstick and tighten to secure.

Lubricate the Front Axle Bearings

1. Raise the saw to the full up position.
2. Add no more than two pumps of grease to each of the two front axle bearings grease fittings located under the frame base on both the left and right side.

Lubricate the Rear Axle Bearings

1. Lower the saw to the full down position.
2. Add no more than two pumps of grease to each of the two rear axle bearings grease fittings located under the frame base on both the left and right side.

Lubricate the Transmission Jack shaft Bearings

1. Locate the two transmission bearing fittings and add no more than two pumps of grease to each of the bearings grease fittings.

200 Hour Service

Replace Engine Oil and Filter

- Refer to the engine operator's manual for oil specifications and capacities.
 - Refer to the engine operator's manual for oil filter specifications.
 - Ensure the engine is turned off and sufficiently cooled down prior to draining the engine oil.
1. Ensure the saw does not have a blade attached and is level to the ground.
 2. Place a drain pan beneath the drain hose located on the front of the saw.
 3. Remove and wipe clean the engine oil dipstick and set aside.
 4. Remove the pipe plug from the end of the drain hose and allow the oil to drain completely.
 5. Remove the belt guard from the left side of the saw.
 6. Remove the oil filter located on the left side of the engine.
 7. Wipe the filter head area clean with a lint free cloth.
 8. Apply a thin film of oil to the rubber gasket of the new filter.
 9. Install the new filter and hand tighten to secure.
 10. Remove the oil fill cap from the front of the engine.
 11. Fill the engine crankcase with oil in accordance with the engine manufacturer's specifications and capacities.
 12. Replace the oil fill cap and reinstall the engine dipstick.
 13. Start the engine and check for leaks. Stop the engine, correct the leaks and recheck the oil level using the dipstick.
 14. Reinstall the belt guard on the left side of the saw.
 15. Dispose of the used oil and filter in accordance with city, state and federal regulations.

Clean the Air Filter

1. Unlock the air cleaner cover clips and remove the cover.
2. Remove the filter element from the air cleaner case.
3. Inspect the filter and replace it if it is damaged.
4. Tap the filter element several times on a hard surface to remove dirt or blow low pressure compressed air through the filter from the inside (not to exceed 30 psi / 207 kPa).

NOTE: DO NOT brush the dirt off of the filter element as this will force dirt into the fibers.

5. Wipe dirt from inside the filter body and cover using a moist rag.



CAUTION

Be careful not to allow dirt into the air chamber that leads to the fuel injection system. This can lead to engine failure.

6. Reinstall the filter element.
7. Reinstall the air cleaner cover to the air cleaner case by aligning the clips of the air cleaner cover with the grooves on the air cleaner case.
8. Lock the air cleaner clips securely.

300 Hour Service

Replace Spark Plugs

1. Disconnect the spark plug wire.
2. Remove the spark plug using a 13/16" spark plug wrench.
3. Check the spark plug gap on the new plug with a wire type feeler gauge. Correct the gap if necessary in accordance with the specifications called out in the engine manufacturer's manual.
4. Carefully install the spark plug by hand until it is seated.
5. Tighten the spark plug 1/2 turn using the applicable spark plug wrench to compress the sealing washer.
6. Reconnect the spark plug wire.
7. Repeat these steps for the second spark plug.

Replace Fuel Filter

1. Lower the saw completely.
2. Close the fuel shutoff valve.
3. Place a drain pan under the hoses and in-line filter.
4. Remove the hose clamp from both sides of the filter.
5. Remove the filter from the hoses. Drain any escaping fuel and dispose of the used fuel and filter according to city, state, and federal regulations.
6. Place the fuel hose coming from the fuel tank onto the end of the filter (the arrow on the filter should not point toward this hose). Push the hose tightly up against the edge of the filter and secure with the hose clamp.
7. Place the fuel hose coming from the engine onto the other end of the filter (the arrow on the filter should point toward this hose). Push the hose tightly up against the edge of the filter and secure with the hose clamp.
8. Open the fuel shutoff valve.

500 Hour Service

Replace Air Filter

1. Unlock the air cleaner cover clips and remove the cover.
2. Remove the filter element from the air cleaner case.
3. Wipe dirt from inside the filter body and cover using a moist rag.



CAUTION

Be careful not to allow dirt into the air chamber that leads to the fuel injection system. This can lead to engine failure.

4. Reinstall the new filter element.
5. Reinstall the air cleaner cover to the air cleaner case by aligning the clips of the air cleaner cover with the grooves on the air cleaner case.
6. Lock the air cleaner clips securely.

General Maintenance

Motor

Refer to the motor manual and manufacturer for a full motor maintenance schedule and additional motor maintenance information.

Disconnecting the Power to the Motor

Whenever maintenance is being conducted on the saw, disconnect the power to the motor by moving the battery disconnect switch, located on the front of the upright, to the OFF position..

Battery

Servicing the Battery

1. Ensure the battery disconnect is in the OFF position.
2. Disconnect the negative cable lead from the negative terminal.

NOTE: Always disconnect the negative cable first.

3. Disconnect the positive cable lead from the positive terminal.
4. Unsecure the battery from the hold-down bracket by removing the two lock nuts from the battery hold-down tie rods and lift the hold-down bracket off.
5. Carefully remove the battery from the battery tray.
6. When replacing the battery, carefully place a new battery into the battery tray. Bring the old battery to a recycling facility; many battery retailers also accept old batteries.
7. When cleaning the battery, inspect the terminals, clamps, and cables for damages and corrosion. Clean the terminals and clamps using a wire brush, or use another approved technique for cleaning. Use acid-free, acid-resistant grease to grease the battery clamps and terminals. Carefully place the battery back into the battery.
8. Reconnect the positive cable lead to the positive battery terminal.

NOTE: Always reconnect the positive cable first.

9. Reconnect the negative cable lead to the negative battery terminal.
10. Re-secure the battery to the hold down top brace by reinstalling the lock nuts onto the two tie rod bolts and tighten them to secure.

Belt Replacement**WARNING**

- Turn the engine off prior to servicing the belts
- Use extreme caution when working with belts and rotating machine parts to avoid entanglement.

**CAUTION**

Let the belts cool down prior to servicing them.

Inspect all belts daily for fraying, stress cracks, and/or breakage and replace immediately when damaged. Always re-tension new belts after the first four hours of use. DO NOT exceed the manufacturer's recommended belt tension settings when tensioning belts.

NOTE: Over-tensioning belts may damage the crankshaft. Under-tensioning belts may cause slippage, shorter belt life, and/or poor saw performance. Squealing belts indicate looseness.

Replacing the Blade Drive Belts

1. Remove the belt guard from the left side of the saw.
2. Loosen the four engine mount screws.
3. Loosen the nut on both blade drive belt tension bolts.
4. Turn both blade drive belt tension bolts (large threaded bolts on engine base) counterclockwise to loosen the belts.
5. Remove the five drive belts from the blade shaft sheave and engine sheave.
6. Loop and align the new belts around the blade shaft sheave and engine sheave.
7. Turn both blade drive belt tension bolts (large threaded bolts on engine foot) clockwise equally to tighten the belts.
8. Test the belt tension and readjust the bolts as necessary. DO NOT exceed the manufacturer's tension settings.
9. Tighten the nut on both blade drive belt tension bolts.
10. Retighten the four engine mount screws.
11. Reinstall the belt guard on the left side of the saw.

Replacing the Transmission Drive Belt

1. Remove the belt guard from the left side of the saw.
2. Loosen the four engine mount screws.
3. Loosen the nut on both blade drive belt tension bolts.
4. Turn both blade drive belt tension bolts (large threaded bolts on engine base) counterclockwise to loosen the belts.
5. Remove the five drive belts from the engine sheave.
6. Ensure the transmission is not engaged.
7. Remove the transmission drive belt from the transmission pulley and the engine sheave.
8. Loop and align the new belt around the engine sheave and transmission pulley.
9. Reinstall the blade drive belts back around the engine sheave.
10. Turn both blade drive belt tension bolts (large threaded bolts on engine foot) clockwise equally to tighten the belts.
11. Test the belt tension and readjust the bolts as necessary. DO NOT exceed the manufacturer's tension settings.
12. Tighten the nut on both blade drive belt tension bolts.
13. Retighten the four engine mount screws.
14. Reinstall the belt guard on the left side of the saw.

Inner Blade Flange

The inner blade flange may be taken off the blade shaft to clean or replace the part.

Installing the Inner Blade Flange

1. Inspect the inner blade flange for damages and clean or replace as necessary.
2. Place the flange onto the stepped down portion of the blade shaft and align it with the blade shaft key.
3. Apply Loctite 262 (red) or an equivalent to the setscrew threads.
4. Place the setscrew into the flange's setscrew hole and tighten the screw down to the blade shaft key to secure the flange. Note: Always make sure the flange is secure prior to operating the saw.

Removing the Inner Blade Flange

1. Remove the setscrew from the back of the inner blade flange using an Allen wrench.
2. Remove the flange from the blade shaft.

Lifting and Transporting

Lifting



CAUTION

Always use a strap to lift the machine.
Ensure the strap is rated high enough to handle the load.

1. Ensure the work area is clear of any obstructions and all personnel are at a safe distance prior to lifting the machine.
2. Using a properly rated strap, place the strap around the frame lift using a basket style hitch.
3. Slowly lift the machine only high enough to conduct the required work.

Transporting

Always secure the machine using tie down straps to avoid damage during transport.

Storing

- Complete the tasks listed below prior to storing the saw for longer time frames:
- Lower the saw completely to remove strain on the lifting mechanism.
- Clean and wipe down the saw to remove dust and debris from saw components.
- Refer to the motor manual for all motor recommendations prior to storing.
- Store the saw in a dry area, protected from outdoor elements and out of reach from children.

Disposal

Dispose of the saw when it's no longer repairable, and/or contains safety hazards not worth repairing or maintaining.

Transport the saw to a salvage yard or recycling facility.

Appendix A

Troubleshooting

Troubleshooting the CC2525H		
Symptom	Problem	Solution
1. Gas engine will not start.	Fuel vale OFF?	Move fuel valve to ON position.
	Battery disconnect switch in the OFF position?	Turn battery disconnect switch to the ON position.
	Engine switch OFF?	Move engine switch to ON position.
	Out of fuel?	Refuel.
	Bad fuel?	Drain fuel tank and carburetor. Refill with fresh fuel
	Faulty spark plug?	Gap or replace spark plug.
	Low oil level?	Fill with recommended oil to proper level.
2. Gas engine lacks power.	Air filter element restricted?	Clean or replace air filter element.
3. Saw will not lower completely.	Blade misaligned?	Adjust skid plates to align blade.
4. Blade does not cut straight.	Excessive force used when sawing?	Reduce forward speed. DO NOT twist blade from side to side.
	Wrong blade?	Contact dealer/manufacturer of blade.
	Loose or worn wheels?	Check that all wheels roll freely and replace as required.
5. Short belt life.	Loose belts causing slippage?	Check and adjust belt tension.
	Sheaves misaligned?	Use straightedge to check blade shaft sheave alignment. Adjust as necessary.
	Worn sheave grooves?	Check for groove wear and replace sheaves when necessary.
	Overheating of belts?	Check and adjust belt tension.

Appendix B

Additional Resources

1. Diamond Products (www.diamondproducts.com)
 - CC2500 Saw Parts List (Gas); #1801980
 - A Guide for Professional Concrete Cutters
 - Training Manual – Introduction to Diamond Blades, Bits, and Equipment
 - Diamond Products' Equipment Catalog
 - Diamond Products' Website (www.diamondproducts.com)
2. Concrete Sawing and Drilling Association (www.csda.org)
 - The CSDA has many helpful concrete cutting publications available to members and non-members.
3. Association of Equipment Manufacturers (www.aem.org)
 - The AEM has a variety of safety and technical manuals available for various types of equipment, along with a list of industry-standardized safety symbols.
4. Occupational Safety & Health Administration (OSHA) (www.osha.gov/)
 - OSHA provides information on work-related safety and health practices.
5. The National Institute for Occupational Safety and Health (NIOSH) (www.cdc.gov/NIOSH/)
 - NIOSH provides information on work-related safety and health practices.

Appendix C

Model and Serial Numbers

Record the saw's serial number below for future reference and customer service purposes.

Serial Number	
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Record the motor's model and serial numbers below for future reference and customer service purposes.

Model Number	
Serial Number	

EQUIPMENT AND PARTS WARRANTY

Diamond Products warrants all equipment manufactured by it against defects in workmanship or materials for a period of one (1) year from the date of shipment to Customer.

The responsibility of Diamond Products under this Warranty is limited to replacement or repair of defective parts at Diamond Products' Elyria, Ohio factory, or at a point designated by it, of such parts as shall appear to us upon inspection at such parts, to have been defective in material or workmanship, with expense for transportation and labor borne by Customer.

In no event shall Diamond Products be liable for consequential or incidental damages arising out of the failure of any Product to operate properly.

Integral units such as engines, electric motors, batteries, transmissions, etc., are excluded from this Warranty and are subject to the prime manufacturer's warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED.



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