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SAFETY PRECAUTIONS

Operate the CC7574DK Concrete Saw 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 saw usage and cannot be held liable for any resulting damages. Saw 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 saw warranties if a problem arises as a result of the modification. Refer to the CC7574DK Parts List for additional information and part diagrams. Refer to the engine manual and 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 A.

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

⚠️ WARNING
Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Spark Arrester Requirement

⚠️ WARNING
In the State of California it is a violation of section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester, as defined in section 4442, maintained in effective, working order or the engine is constructed, equipped, and maintained for the prevention of fire pursuant to section 4443.

Respiratory Hazards

⚠️ WARNING
Concrete cutting produces dust and fumes known to cause illness, death, cancer, 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).
SAFETY PRECAUTIONS

General Safety

• Read and understand all safety, operations, and maintenance instructions provided in this manual prior to operating or servicing the saw.
• Keep saw components clean and free of slurry, concrete dust, and debris.
• Inspect water hoses prior to operating the saw.
• Clean, repair, or replace damaged components.
• Raise the saw to a proper height for access when working underneath the saw. Use chocks to block the wheels, and fit blocks or jacks under the frame edges.
• When using a jack to raise the saw, place the jack against a solid, flat area under the frame base to properly support the saw.
• Repair the saw immediately when a problem arises.
• 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 saw.
• Operate the saw wearing flame resistant clothing.
• Always wear safety glasses when removing retaining rings.
• Persons under the statutory age limit should not operate the saw.
• Keep all body parts away from rotating machinery.
• Replace all guards and access panels (unless stated otherwise) prior to operating the saw.
• Always pivot front of blade guard fully to avoid serious injuries.
• DO NOT assume the saw will remain still when in neutral or when parking/stopping the saw on a slope. Chock the wheels to help prevent unnecessary movement.

WARNING

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

• Do NOT: 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 saw without using the appropriate safety equipment required for the work task.

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

• 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 saw components (unless stated otherwise).
• Remove the battery when storing the saw 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 while the engine is 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 saw.
• 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 saw.
• 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 saw, 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 saw 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 saw. Clean or replace dirty/damaged components immediately.

Fuel Safety

• Always use caution when refueling.
• Store all fuel in appropriate safety containers.
• DO NOT operate the saw with a fuel leak.
• DO NOT fuel the saw with the engine running.
• Let the engine cool prior to adding fuel.
• Refer to the engine manual for recommended fuels.
• Always use appropriate fuels in cold weather.
• Move the saw away from the refueling area prior to starting the engine.
• DO NOT smoke or expose fuel to open flames when filling the fuel tank or working with fuel.
• Clean up any spilled fuel prior to starting the engine.
SAFETY PRECAUTIONS

- Drain the fuel tank and fuel lines when storing the saw for longer periods of time. Refer to the engine manual for additional recommendations.

**Engine Safety**
- Refer to the engine manual as the primary source for engine safety.
- Always know how to turn off the engine quickly for emergency purposes.
- Make sure the saw is in neutral when starting the engine.
- Fill the fuel tank and check the oil level prior to starting the engine.
- Keep all body parts away from rotating saw parts with the engine running.
- DO NOT start the engine without the air filter(s) installed.
- DO NOT allow dust to enter the intake tube when cleaning/replacing air filter(s).
- Replace damaged components immediately that may allow dust to enter the engine.
- DO NOT leave the engine running unattended.
- Always operate the saw in well-ventilated areas. Concentrated engine exhaust can cause loss of consciousness and/or death.
- DO NOT touch the engine/muffler assembly with the engine running, and always let them cool down prior to touching or servicing the saw.
- Handle hot oil carefully when changing the oil.
- Let the engine cool prior to removing pressurized caps (applicable models).
- DO NOT use any starter substances or starter fluids (e.g., starter fluid sprayed into the air filter) when starting the engine using a glow plug (applicable models). These materials are extremely flammable and explosive, and can melt parts or possibly explode when used to help start the engine.

**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.
- DO NOT expose yourself or anyone else to the direct line of the blade when operating the saw.
- DO NOT allow any person, animal, and/or objects in and around the work area while cutting.

**Hydraulic Safety**
- Turn off the engine prior to servicing hydraulic components.
- Lower the saw 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 saw 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 saw.
- 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 saw performance.
- Squealing belts indicate looseness.
- DO NOT use old and new belts together on the same sheave.

**Transporting Safety**
- Remove the blade prior to transporting the saw.
- Make sure the truck/trailer is in good, working condition and sufficient to transport the load. DO NOT tow the saw behind a vehicle.
- Close the fuel shutoff valve (applicable models) when transporting.
- Drain the fuel tank when transporting long distances.
- Use heavy-duty ramps that will support the weight of the saw and yourself when loading or unloading.
- Raise the saw to avoid damaging components while moving up and down ramps.
SAFETY PRECAUTIONS

• Use extreme caution when guiding the saw up and down ramps. Slowly drive the saw forward down the ramp. Slowly back the saw in reverse up the ramp. Avoid standing directly downhill from the saw to prevent machine rollover.

• Place the saw in neutral and turn off the engine once the saw is loaded in the truck/trailer.
• Chock the wheels and secure the saw in the truck/trailer prior to transporting.
• Refer to the Department of Transportation (DOT) for additional transportation recommendations.

Lifting Safety

• Move yourself and all others away from the lifting area when hoisting the saw to prevent being crushed.

• Secure the appropriate hoisting cables, straps, and/or chains to the saw’s designated lift points prior to hoisting.
• Never use the tie-down brackets (applicable models) to lift the saw.
• DO NOT attempt to lift the saw irresponsibly and/or improperly.
INTRODUCING THE CC7574

CC7574DK Controls

1. Ignition Switch – Starts the engine and provides power to certain components.
2. Engine Display Panel – Monitors and displays various engine and machine parameters.
3. Engine Throttle Switch – Increases and decreases engine/blade speed (RPM).
5. Radiator Cap – Fill port for changing radiator coolant.
7. Lowering Speed Control Valve – Adjusts saw’s lowering speed.
9. Low Blade Water Light – Indicates low water pressure to blade.
10. Blade Depth Set Light – Indicates that the blade depth is set.
11. Blade Depth Stop Switch – Sets and resets blade depth setting.
12. Free Wheel Switch – Allows operator to move saw forward/backward (with ignition switch at RUN).
14. **Spotlight Switch** – Activates spotlight.
15. **Water Pump Switch (Optional)** – Activates water pump.
16. **Blade Clutch Switch (DKC Model)** – Allows for engaging/disengaging blade rotation.
17. **Speed Control Lever** – Forward, reverse, and neutral control.
18. **Saw Raise Pushbutton** – Activates hydraulic pump to raise saw.
19. **Saw Lower Pushbutton** – Bleeds hydraulic pressure from lift cylinder to lower saw.
20. **Tilt Handlebar Pushbutton** – Adjusts angle of handlebars.
21. **Cutting Depth Indicator** – Indicates blade depth from cutting surface.
22. **Coolant Recover Tank Cap** – Fill port for adding radiator coolant.
23. **Water Pump (Optional)** – Transfers water from the water source to the saw blade.
24. **Spot Light** – Illuminates the work area.
25. **Spot Light Adjustment Knob** – Locks the spot light bar in place.
26. **Fuel Filler Cap** – Fill Port.
27. **Water Metering Control Valve** – Controls water flow rate. Connects to the water source hose.
28. **Water On/Off Control Valve** – Turns water flow, to the saw blade, on and off.
29. **Handlebar Lock Lever** – Locks the handlebar in position.
30. **Speed Control Friction Wrench** – Used to adjust pressure on the speed control friction washer.
31. **Blade Shaft Wrench** – Used to install and remove blades from the blade shaft.
INTRODUCING THE CC7574

CC7574DK Dimensions

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<td>C Saw Length – Maximum</td>
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<tr>
<td>L1 Ground Clearance (Saw Level)</td>
<td>2-1/2</td>
<td>63</td>
</tr>
<tr>
<td>L2 Ground Clearance (Saw Raised)</td>
<td>1-3/4</td>
<td>44</td>
</tr>
<tr>
<td>- Blade Raised Height - Maximum</td>
<td>26</td>
<td>660</td>
</tr>
</tbody>
</table>
**CC7574DK Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Cutting Depth</td>
<td>19-3/4&quot; with 48&quot; blade</td>
</tr>
<tr>
<td>Blade Shaft Diameter</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Arbor Diameter</td>
<td>1&quot; with single drive pin</td>
</tr>
<tr>
<td>Blade Shaft Bearings</td>
<td>Multiple ball bearings in oil bath</td>
</tr>
<tr>
<td>Blade Shaft Drive</td>
<td>20 V-belts (four power bands)</td>
</tr>
<tr>
<td>Blade Mounting</td>
<td>Right or left</td>
</tr>
<tr>
<td>Blade Raise/Lower</td>
<td>Electro-hydraulic pump</td>
</tr>
<tr>
<td>Blade Coolant</td>
<td>Dual multi-spray tubes</td>
</tr>
<tr>
<td>Blade Guard Attachment</td>
<td>Slip-on through 30&quot;, bolt-on 36&quot; and up</td>
</tr>
<tr>
<td>Handlebars</td>
<td>Length and tilt adjustable</td>
</tr>
<tr>
<td>Drive Speed</td>
<td>0-250 feet/min</td>
</tr>
<tr>
<td>Front Wheels</td>
<td>8&quot; x 3&quot;</td>
</tr>
<tr>
<td>Rear Wheels</td>
<td>10&quot; x 3&quot;</td>
</tr>
<tr>
<td>Transmission</td>
<td>Hydro pump powering dual wheel motors</td>
</tr>
<tr>
<td>Uncrated Weight</td>
<td>2,000-2,300 Lbs.</td>
</tr>
<tr>
<td></td>
<td><em>(add 125 Lbs. for crated weight)</em></td>
</tr>
<tr>
<td></td>
<td><em>(weight depends on model and added options)</em></td>
</tr>
</tbody>
</table>

**Engine Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Kubota</td>
</tr>
<tr>
<td>Model</td>
<td>V3307-CR-T-E4-B</td>
</tr>
<tr>
<td>Maximum Horsepower (HP)</td>
<td>74.3 HP @ 2,600 RPM</td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>Nine gallons</td>
</tr>
<tr>
<td>Fuel Type</td>
<td>Low sulfur/ultra-low sulfur diesel fuel</td>
</tr>
<tr>
<td>Air Filter</td>
<td>Four-stage with restriction indicator</td>
</tr>
<tr>
<td>Power at Blade Shaft</td>
<td>70 HP</td>
</tr>
</tbody>
</table>

*Note: Refer to the engine manual and manufacturer for additional engine information and specifications.*
1. **Ignition Switch** – Starts the engine and provides power to certain components.
2. **Diagnosis Port** – Used by service personnel to monitor engine parameters.
3. **Engine Display Panel** – Monitors and displays various engine and machine parameters.
4. **Engine Throttle Switch** – Increases and decreases engine/blade speed (RPM).
5. **Cable Cleat** – Secures front pointer rope.
6. **Emergency Stop Button** – Stops the engine.
7. **Lowering Speed Control Valve** – Adjusts saw’s lowering speed.
8. **Blade Gearbox Temperature Light** – Indicates high oil temperature in blade gearbox.
9. **Low Blade Water Light** – Indicates low water pressure to blade.
10. **Blade Depth Set Light** – Indicates that the blade depth is set.
11. **Blade Depth Stop Switch** – Sets and resets blade depth setting.
12. **Auto Water Switch** – Activates automatic water system. Water turns on/off when depth indicator enters Auto Water On/Off Zone.
13. **Free Wheel Switch** – Allows operator to move saw forward/backward (with ignition switch at RUN).
14. **Spotlight Switch** – Activates spotlight.
15. **Water Pump Switch (Optional)** – Activates water pump.

16. **Blade Clutch Switch (DDC Model)** – Allows for engaging/disengaging blade rotation.

17. **Speed Control Lever** – Forward, reverse, and neutral control.

18. **Saw Raise Pushbutton** – Activates hydraulic pump to raise saw.

19. **Saw Lower Pushbutton** – Bleeds hydraulic pressure from lift cylinder to lower saw.

20. **Tilt Handlebar Pushbutton** – Adjusts angle of handlebars.

21. **Cutting Depth Indicator** – Indicates blade depth from cutting surface.

22. **Spot Light** – Illuminates the work area.

23. **Spot Light Adjustment Knob** – Locks the spot light bar in place.

24. **Fuel Filler Cap** – Fill Port.

25. **Water Metering Control Valve** – Controls water flow rate. Connects to the water source hose.

26. **Water On/Off Control Valve** – Turns water flow, to the saw blade, on and off.

27. **Handlebar Lock Lever** – Locks the handlebar in position.

28. **Speed Control Friction Wrench** – Used to adjust pressure on the speed control friction washer.

29. **Blade Shaft Wrench** – Used to install and remove blades from the blade shaft.
**INTRODUCING THE CC7574**

**CC7574DD Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Saw Height</td>
<td>58-1/2</td>
<td>1486</td>
</tr>
<tr>
<td>B Saw Length – Minimum</td>
<td>65</td>
<td>1651</td>
</tr>
<tr>
<td>C Saw Length – Maximum</td>
<td>143</td>
<td>3632</td>
</tr>
<tr>
<td>D Handle Extension – Maximum</td>
<td>28</td>
<td>711</td>
</tr>
<tr>
<td>E Frame Length</td>
<td>53-3/4</td>
<td>1365</td>
</tr>
<tr>
<td>F Wheel Base Length</td>
<td>24-1/4</td>
<td>616</td>
</tr>
<tr>
<td>G Saw Width</td>
<td>36-1/2</td>
<td>927</td>
</tr>
<tr>
<td>H Frame Width</td>
<td>29</td>
<td>737</td>
</tr>
<tr>
<td>I Front Wheels Inside Width</td>
<td>20-1/2</td>
<td>520</td>
</tr>
<tr>
<td>J Rear Wheels Outside Width</td>
<td>27-1/4</td>
<td>692</td>
</tr>
<tr>
<td>K Inner Flange to Inner Flange Width</td>
<td>31-3/4</td>
<td>806</td>
</tr>
<tr>
<td>L1 Ground Clearance (Saw Level)</td>
<td>2-1/2</td>
<td>63</td>
</tr>
<tr>
<td>L2 Ground Clearance (Saw Raised)</td>
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</tr>
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<td>26</td>
<td>660</td>
</tr>
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</table>
## CC754DD Specifications

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Maximum Cutting Depth</td>
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<tr>
<td>Uncrated Weight</td>
<td>2,000-2,300 Lbs. (weight depends on model and added options)</td>
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</tbody>
</table>

### Engine Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Deutz</td>
</tr>
<tr>
<td>Model</td>
<td>TD 2.9 L4</td>
</tr>
<tr>
<td>Maximum Horsepower (HP)</td>
<td>74.3 HP @ 2,600 RPM</td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>Nine gallons</td>
</tr>
<tr>
<td>Fuel Type</td>
<td>Low sulfur/ultra-low sulfur diesel fuel</td>
</tr>
<tr>
<td>Air Filter</td>
<td>Four-stage with restriction indicator</td>
</tr>
<tr>
<td>Power at Blade Shaft</td>
<td>74 HP</td>
</tr>
</tbody>
</table>

*Note: Refer to the engine manual and manufacturer for additional engine information and specifications.*
Display Panel

The display panel is a rugged CAN-based controller. This section explains the functions of the unit, describes the display screens and gives details about the configuration.

Turning the ignition switch to run or start will activate the display panel. A sequence of screens will display on the control panel. First you will see a notation in the upper left corner, “Booting”, followed by Diamond Products logo and then the gauge screen. If one or more of the emergency stop triggers are activated, the E-stop switch is active, coolant level is low, or back panel is open (on certain models) an emergency shutdown window will be displayed. Operator must clear these messages before engine can start.

![Figure 1: Display Panel with Emergency Shutdown Window](image)

The Gauge Screen (Home) displays three dial gauges and four digital gauges.

<table>
<thead>
<tr>
<th>Dial Gauge</th>
<th>Digital Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Engine and Tachometer Speed/RPM</td>
<td>• Oil Pressure – Lamp Only</td>
</tr>
<tr>
<td>• Engine Coolant Temperature</td>
<td>• Fuel Level – Lamp Only</td>
</tr>
<tr>
<td>• Electrical Potential Voltage</td>
<td>• Engine Total Hours of Operation</td>
</tr>
<tr>
<td></td>
<td>• Service – Engine Hours Logged since Last Service Date</td>
</tr>
</tbody>
</table>
**Soft Keys (Buttons)**

The Soft Key choices are associated with the throttle source. These will appear on the bottom of the display screen and can be selected by pushing the button directly below the soft key.

<table>
<thead>
<tr>
<th>Soft Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DPF Commands</strong></td>
<td>DPF Commands – Displays the Diesel Particulate Filter (DPF) command to access the Un-inhibit Regen and Inhibit Regen</td>
</tr>
<tr>
<td><strong>Request Regen</strong></td>
<td>Request Regen – Sends message to Engine Control Unit (ECU) to start regenerating the DPF when prompted by engine ECU</td>
</tr>
<tr>
<td><strong>Stop Regen</strong></td>
<td>Stop Regen – Sends message to ECU to stop regenerating the DPF (should not be used unless necessary)</td>
</tr>
<tr>
<td><strong>Freeze Frame</strong></td>
<td>Freeze Frame – Requests the freeze frame data from the ECU when faults are present</td>
</tr>
<tr>
<td><strong>Main Menu</strong></td>
<td>Main Menu – Two pages that list seven action items. Five are available to the operator: Gauges, Diagnostics, System Info, Lamp Info and User settings.(Panel Configuration and Service are reserved for technical support)</td>
</tr>
<tr>
<td><strong>Down</strong></td>
<td>Down – Navigates the cursor downward through a list</td>
</tr>
<tr>
<td><strong>Up</strong></td>
<td>Up – Navigates the cursor upward through a list</td>
</tr>
<tr>
<td><strong>Select</strong></td>
<td>Select – Enters the action item next to the cursor in a list. Also used with the Main Menu soft key to get back to the Main Menu from any screen</td>
</tr>
<tr>
<td><strong>Deselect</strong></td>
<td>Deselect – Closes pop-up messages</td>
</tr>
<tr>
<td><strong>Right</strong></td>
<td>Right – Toggles between the main menu and a larger engine/blade shaft RPM dial gauge</td>
</tr>
</tbody>
</table>
**Status Icons**

The Status Icons are color coded and light up when communicating to the operator. Pay close attention to any Status Icons and color if it appears.

<table>
<thead>
<tr>
<th>Status Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Check Engine – Yellow icon" /></td>
<td>Check Engine – Yellow icon is visible if the controller receives a DM1 (Active Diagnostic Trouble Code) message with an amber lamp command.</td>
</tr>
<tr>
<td><img src="image" alt="Check Engine – Red icon" /></td>
<td>Check Engine – Red icon is visible if the controller receives a DM1 message with a red lamp command.</td>
</tr>
<tr>
<td><img src="image" alt="Parking Brake Switch – Green icon" /></td>
<td>Parking Brake Switch – Green icon displays when the parking brake is applied.</td>
</tr>
<tr>
<td><img src="image" alt="Transmission Disengaged – Green icon" /></td>
<td>Transmission Disengaged – Green icon displays when the transmission is disengaged.</td>
</tr>
<tr>
<td><img src="image" alt="Emergency Stop Button – Red icon" /></td>
<td>Emergency Stop Button – Red icon displays when emergency stop button is engaged.</td>
</tr>
<tr>
<td><img src="image" alt="Engine Exhaust High Temperature Lamp" /></td>
<td>Engine Exhaust High Temperature Lamp – Red icon displays during active DPF regeneration when the DPF outlet temperature is greater than 450°C and post engine fuel injection is occurring.</td>
</tr>
<tr>
<td><img src="image" alt="Diesel Particulate Filter Lamp Command" /></td>
<td>Diesel Particulate Filter Lamp Command – Red icon is: (1) On solid during regeneration (2) Blinking to request parked regeneration. Yellow Icon is on solid to request automatic active regeneration when regeneration is inhibited.</td>
</tr>
<tr>
<td><img src="image" alt="DPF Regeneration set to Inhibit – Displays when the machine or the operator has inhibited regeneration." /></td>
<td></td>
</tr>
</tbody>
</table>

**Glossary of Terms and Acronyms**

- **CAN** – Controller Area Network
- **DM1** – Diagnostic Message 1, Active Diagnostic Trouble Codes
- **DM2** – Diagnostic Message 2, Previously Active Diagnostic Trouble Codes
- **DM4** – Freeze Frame Parameters
- **DPF** – Diesel Particulate Filter
- **DTC** – Diagnostic Trouble Code
- **ECU** – Engine Control Unit
- **FMI** – Failure Mode Identifier
- **PGN** – Parameter Group Number
- **SPN** – Suspect Parameter Number
Main Menu
The Main Menu is the default gauge screen (Home). There are three soft key options available from the Main Menu:

1. Arrow
2. DPF Commands
3. Main Menu Soft Key ( ).

To return to Main Menu select the soft key below the Arrow or the soft key below Main Menu then using the up and down arrows place cursor on Gauges and select the soft key under ( ).

DPF Commands
Select the soft key under DPF Commands and the soft key options will display three soft key options:
- Return
- Main Menu
- Inhibit Regen (default) or Un-inhibit Regen.

(Note: The saw will default to auto regen mode. Therefore, when starting the saw Inhibit Regen will display.)

Arrow
Selecting the soft key under the Arrow will display the Engine and Tachometer RPM and the DPF Outlet Gas Temperature gauge screen.

The RPM gauge displays engine RPM with the red arrow (arrow #1) and the blade RPM with the red line pointer (arrow #2).

1. Return – Select the soft key under Return to take you back to the Main Menu.
2. Main Menu – Select the soft key under the main menu icon, then using the up and down arrows place the cursor on Gauges and select the soft key under ( ) to take you back to the main gauge screen.
3. Inhibit Regen – Select to temporarily turn off the default auto regen and place the saw in Inhibit Regen status. The DPF will remain in Inhibit Regen status until the engine is shutdown. The next time the engine starts the DPF will default back auto.
DISPLAY PANEL

A yellow warning window will display letting you know you are temporarily inhibiting the DPF regeneration. Select the soft key X to close the window.

![Display Panel Image]

DPF Regeneration Inhibited

Main Menu Action Items
Press the Main Menu ( ) soft key to view the menu action list. Scroll through the Main Menu action list on two screens, using the Up/Down soft keys to maneuver the cursor to the action item you want, then press the soft key under the circle ( ).

1. Gauges (Main Menu default screen)
2. Diagnostics
3. System Information
4. User Settings
5. Panel Configuration (Password Required)
6. Service (Password Required)

Gauges
Returns screen to Main Menu

Diagnostics
The screen displays the following items:
- Active Diagnostics
- Logged Diagnostics

![Main Menu Action Items – Screen 1 Image]

Main Menu Action Items – Screen 1

![Main Menu Action Items – Screen 2 Image]

Main Menu Action Items – Screen 2

![Active or Logged Diagnostics Image]

Active or Logged Diagnostics
Active Diagnostics

Use the UP/DOWN soft keys and stop the cursor next to the action item Active Diagnostics. Press to select ( ) soft key. The screen displays active warnings or faults from the ECU. Each diagnostic is shown with the appropriate Suspect Parameter Number (SPN) and Failure Mode Indicator (FMI), Text Description (if available) and the ID/Name of the device that transmitted the DM1 message.

Press the UP/DOWN soft keys to reach the next diagnostic in the list.

Logged Diagnostics

Use the UP/DOWN soft keys, and stop the cursor next to the action item Logged Diagnostics. Press to select ( ) soft key. The screen displays the controller requests DM2 (stored trouble codes, not active), warning or faults from the ECU. Each diagnostic is shown with the appropriate information:

- Suspect Parameter Number (SPN)
- Failure Mode Indicator (FMI)
- Text Description (if available)
- ID/Name of the device that transmitted the DM1 message

Note: Select the Freeze Frame Button to request the freeze frame data from the ECU when faults are present.

System Information

Scroll through the Menu list using the UP/DOWN soft keys, and stop the cursor next to the action item System Info. Press to select ( ) soft key. The screen displays the following items:

- Engine Model
- Engine Serial Number
- ECU Software ID
- Fuel Rate
- Time Since Last Active Regen
- File Name of Installed Software

Press the UP/DOWN soft keys to display a screen with application and configuration information.
**DISPLAY PANEL**

**User Settings**

Scroll through the Menu list using the UP/DOWN soft keys, and stop the cursor next to the action item **User Settings** - Press to select ( ) soft key. The screen displays the following action items:

- Colors
- Brightness
- Language
- Units

**Screen Color**

Using the UP/DOWN soft keys stop the cursor next to the action item, Colors. Set your preference for day or night vision by using the +/- soft keys. To exit the screen select the Main Menu ( ) soft key and then select the ( ) soft key.

**Screen Brightness**

Using the UP/DOWN soft keys stop the cursor next to the action item **Brightness**. Set the brightness of the backlight by using the +/- soft keys. To exit the screen select the Main Menu ( ) soft key and then select ( ) soft key.
Language

Using the UP/DOWN soft keys stop the cursor next to the action item, Language. Set your language preference using the +/- soft keys.
- English
- French
- German
- Spanish
- Italian
- Japanese

To exit this screen, select the Main Menu ( ) soft key and then select ( ) soft key.

Units

Using the UP/DOWN soft keys stop the cursor next to the action item, Units. Set your unit preference using the +/- soft keys. To exit the screen select the Main Menu ( ) soft key and then Select ( ) soft key.
- USA Standard
- Metric kPa
- Metric Bar

Automatic Shutdown

There are two faults the engine communicates to the display screen to initiate a shutdown. The two faults from the ECU are displayed on the display screen as P0093 and P1274 to the operator. The engine is shutdown for safety reasons. Contact a qualified service facility if this occurs.
Regeneration (Note: This section pertains to CC7574DK only)

Passive Regeneration

Occurs when the temperature of the exhaust is high enough to naturally burn off at least some of the particulates (soot) captured by the DPF. Most normal use of the saw where the engine is operated under full load will cause exhaust temperatures high enough to produce passive regen, preventing soot buildup. No action required from operator.

⚠️ CAUTION - ACTIVE REGENERATION will cause the exhaust temperatures to be extremely high. Ensure exhaust will not come into contact with combustible materials.

Active Regeneration

The CC6571 and CC6571-3 are factory set DPF Un-inhibited. If the system detects the exhaust temperatures are insufficient to passively keep the DPF from clogging with particulates, it will initiate active regeneration. The engine controls inject diesel fuel directly into the DPF to increase temperature to burn off, i.e. clean, the soot captured in the filter. This should occur infrequently, but will happen more often if the engine is allowed to idle excessively (longer than five minutes) or sawing is lightly loaded. Failure to change oil at recommended intervals can also contribute to excessive soot buildup. It is not unusual to see excessive smoke being emitted for the tailpipe during regeneration. It is recommended to let the regeneration complete automatically but if it needs to be interrupted turn the ignition to Stop. Operator needs to ensure exhaust will not come into contact with combustible materials.

During active regeneration the display panel will show the red status icon, Engine Exhaust High Temperature Lamp.

Engine Exhaust High Temperature Lamp – Red icon displays during active DPF regeneration when the DPF outlet temperature is greater than 450°C and post engine fuel injection is occurring

⚠️ CAUTION - Performing a PARKED REGENERATION will cause the exhaust temperatures to be extremely high. Ensure exhaust will not come into contact with combustible materials.

Parked Regeneration

The machine is in an operating condition such that the DPF can regenerate.

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancel Regen</td>
<td>Communicates with the engine that regeneration is not wanted by the operator or is unsafe at this time.</td>
</tr>
<tr>
<td>Regen Mode Inhibit</td>
<td>Communicates with the engine that regeneration is not wanted or is unsafe to regenerate at this time.</td>
</tr>
<tr>
<td>Request Regen</td>
<td>Communicates with the engine that regeneration is desired by the operator and is safe at this time.</td>
</tr>
</tbody>
</table>

The display will show a message in a blue pop-up once all conditions allowing a parked regeneration to occur are met:

- Regen Levels must be at or above the appropriate level set in the ECU to allow for a parked regeneration.
- Park/Disengage switch must be on. Placing the equipment in park/disengage will activate a switch the display panel is monitoring then transmits to the engine ECU which will allow for a parked regeneration.
- Throttle control of the engine must be at its rest state with no throttle applied.
- DPF Command Inhibit Regen must be turned off to allow for a parked regeneration.
- Parking brake must be on.
- Move machine to a safe location.
Regeneration Screen Examples

The operator may experience a pop-up Regen Caution message on the controller screen. Messages require an active response by the Operator so it is important the Operator reads the entire pop-up message. Some messages require using the UP/DOWN soft keys to maneuver through the entire message. See section on Regeneration Levels for more examples.

Yellow Regeneration Caution
Single Screen Example

Orange Regen Caution Screen 1
Example of message that requires down soft key.

Orange Regen Caution Screen 2

Cancel Parked Regeneration.

Click on the ( ) soft key. This action cancels the regeneration process, removes the pop-up and takes the operator back to the Gauge Screen.

Note: The machine must be in park and neutral with a DPF level of 3 or higher to perform a Parked Regeneration.

WARNING: If the Diesel Particulate Soot Level reaches Regen Level 4 (red) due to inhibiting regeneration, the engine should be shutdown and a qualified engine or OEM service technician will be required to perform regeneration. This is noted on the display screen and in the example in section, Regeneration Message Levels.
DISPLAY PANEL

**CAUTION** - Exhaust temperatures will be extremely high. Ensure exhaust will not come into contact with combustible materials.

**Request Parked Regeneration:**

1. Move the machine to a safe location.
2. Put the machine in park/disengage.
3. Return the engine to low idle speed.
4. Apply the parking brake.
5. Un-inhibit regeneration. If needed, display’s factory default is set to un-inhibited.
6. The blue message will appear. Using the UP/DOWN soft keys, maneuver through the entire message and follow the instructional steps.
7. Press the Request Regen (Request Regen) soft key to start the Parked Regeneration.

During the regeneration, the engine speed will increase and there may be noticeable sound difference.

The following blue parked regeneration message screens will be displayed.

---

**CAUTION** DO NOT attempt to operate the unit, change engine RPM or move from Park/Disengage while regeneration is occurring. This will abort the regeneration process and require you to start the process over.
Once the Parked Regeneration has started it can be shutdown by pressing the Stop Regen soft key.

However, **DO NOT** shut down unless it is absolutely necessary.

**CAUTION** - Continue to monitor surrounding areas during the process. If unsafe conditions develop, shut the unit off immediately.

Parked Regeneration is complete when the controller screen shows the following green pop-up message. Click on the soft key to remove the pop-up message. The machine can return to normal usage.
**DISPLAY PANEL**

**Regeneration Message Levels**
Please pay attention to all messages on the controller for the safety of personnel and to prevent engine and property damage if DPF regeneration is needed.

- **Regen Level 1 (Yellow)**
  - The Diesel Particulate Filter is loaded with soot and needs to be regenerated.
  - When safe please uninhibit automatic active regeneration.

- **Regen Level 2 (Orange)**
  - The Diesel Particulate Filter is loaded with soot and needs to be regenerated.
  - When safe either uninhibit automatic active regeneration or complete a parked regeneration.

- **Regen Level 3 (Red)**
  - Urgent: Engine output limited. The Diesel Particulate Filter is EXTREMELY loaded with soot and needs to be regenerated.
  - Continued operation without completing a parked regeneration can cause unwanted engine damage.
  - IMMEDIATELY: More...

- **Regen Level 4 (Red)**
  - 1) Move the machine to a safe location.
  - 2) Place in Park or Neutral.
  - 3) Set the engine to low idle.
  - 4) Uninhibit regeneration.
  - 5) Apply the parking brake (if equipped).

- **Regen Complete (Green)**
  - DPF regeneration is complete.
  - The machine may be returned to normal usage.

- **Regen Level 5 (Red)**
  - Urgent: Engine output is SEVERELY limited. DPF regeneration is impossible.
  - The DPF must be removed and cleaned by a qualified cleaning facility and the ECU must be reset by a qualified engine or OEM service technician.
  - IMMEDIATELY: Take the machine to a safe location, shutdown and contact a qualified service facility.
For additional information and detailed diagrams on individual saw components, refer to the CC7574 Parts List in conjunction with this manual.

**Tie-Downs**

Use the tie-downs (one at the back and one at the front end of the saw) when securing the saw in a truck/trailer for transportation. DO NOT over-tighten a chain/rope to the front end tie-down, which may bend the frame and damage the saw.

**Footrest**

Use the footrest, if desired, to add body weight to the rear of the saw and improve the rear wheel traction when cutting.

**Weight Bar (Optional)**

The weight bar (optional) adds 56 Lbs. to the saw to improve the rear wheel traction when cutting. 

*Note: The weight bar is a standard feature on the 48" blade saw.*

1. Attach the second footrest to the back of the frame base using the screws, washers, and lock nuts provided.
2. Rest the weight bar on top of both footrests.
3. Place a flat washer onto both screws. Fit the screws through the screw holes on top of the weight bar and through the slot on both footrests.
4. Place a fender washer onto each screw underneath the footrest and secure with a lock nut.
5. Remove the weight bar as necessary.

**Spotlight**

1. Loosen both spotlight bar lock knobs and slide the spotlight bar from side-to-side to adjust the length of the bar.
2. Tighten the lock knobs to secure.
3. Turn the spotlight switch on or off as needed for additional lighting.

**Handlebars**

The handlebars help to guide and maneuver the saw. Place the handlebars in the desired position for better leverage when lifting and steering. To maneuver the saw forward or backward, turn on the *Free Wheel* switch and move the saw as desired (the free wheel component only works with the ignition key at *Run*).

1. Loosen the handlebar adjusting lever.
2. Move the handlebar forward or backward to adjust the length and retighten the adjusting lever to secure.
3. Press the *Tilt Handlebar* pushbutton, located on the side of the control grip, and move the handlebar up or down to adjust the angle. *Note: The button only works with the ignition key at the Run position.*
4. To reposition adjustment lever, pull out and move to desired lever position.
**Control Grip Pushbuttons**

The control grip pushbuttons only work with the ignition key at Run or with the engine running.

1. Press the *Raise* (left) pushbutton to raise the saw and blade, and release to stop. **Note:** Always raise the blade when maneuvering the saw to provide proper clearance between the blade and the ground.
2. Press the *Lower* (right) pushbutton to lower the saw and blade, and release to stop.
3. Press the *Tilt Handlebar* pushbutton, located on the side of the control grip, and move the handlebar up or down to adjust the angle.

**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 low sulfur or ultra-low sulfur diesel fuel. DO NOT overfill the tank for expansion purposes. Refer to the engine manual for information on appropriate diesel fuels in normal and cold weather temperatures.
5. Replace the fuel tank cap and secure.

**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.
- Always secure the pivoted section of the blade guard using the detent pin (guards 26” and up).
- 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 and water tubes. Clean, repair, or replace dirty or damaged components immediately. **Note:** Always use a guard size that matches the blade size. Refer to the parts list for additional information.

**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.
2. Insert the lock pin through the hole on the tapered frame mount to secure the guard.
3. For guards 36” and up, raise the saw slightly. Place a lock washer and then a flat washer onto the blade guard screw. Fit the screw through the slot near the back of the guard and through the hole on the frame base, and secure the guard to the frame using the provided wrench.
4. 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. For guards 36” and up, raise the saw slightly. Remove the screw from the frame base and blade guard.
3. Remove the lock pin from the tapered frame mount.
4. Use the handle on the blade guard to rock the guard back and forth while lifting the guard off the tapered 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 lock pin through the hole on the tapered frame mount to secure the guard.

Removing the Flange Guard
1. Remove the lock pin from the tapered frame mount.
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
OPERATING THE CC7574

Blade Speed
Refer to the CC7574 RPM Chart, 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.

Installing the Blade

1. Select a blade size and type. Remember to check the blade for damages and discard as necessary. Note: If changing the blade size, adjust and/or change all necessary saw components according to the information in the CC7574 Parts List.
2. Remove the detent pin (guards 26" and up) from the guard hinge and pivot the front of the blade guard 180° (fully upward) to gain access to the blade flanges. For larger, heavier guards that are positioned too high up and are unsafe to pivot, remove the lock nut and screw from the center of the guard hinge. Remove the front of the guard. Note: Have a second trained operator hold the guard in place while removing the hinge screw and nut.

   3. On the pivoted guards, insert the detent pin through the interlocking barrels on the top of the guard to secure the front of the guard. Note: Failure to fully pivot and secure the front of the guard may cause serious injuries.
4. Remove the blade shaft bolt. 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. Place the blade against 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 printed on the blade in the direction of the blade shaft’s rotation.

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.
7. Align and fit the outer flange and flange pin through the blade and into the inner flange and blade shaft. Note: The outer flange should fit snug with the blade, inner flange, and blade shaft.

8. Slightly rotate the outer flange and blade backward to eliminate backlash (looseness) between parts.

9. Place the lock washer and then the flat washer onto the blade shaft screw and insert the screw into the blade shaft through the center of the outer flange.

10. Tighten the screw by hand. Slowly lower the saw, if necessary, until the blade just touches the ground.

11. Tighten the screw again, using the wrench, to 125 ft-lb (170 Nm) minimum to secure the outer flange and blade.

12. Remove the detent pin (guards 26" and up) from the guard hinge and pivot the front of the guard down over the blade to secure.

13. Re-insert the detent pin.

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.
- Always secure the pivoted section of the blade guard using the detent pin (guards 26" and up).

1. Remove the detent pin (guards 26" and up) from the guard hinge and pivot the front of the blade guard 180° (fully upward) to gain access to the blade. For larger, heavier guards that are positioned too high up and are unsafe to pivot, remove the lock nut and screw from the center of the guard hinge. Remove the front of the guard. Note: Have a second trained operator hold the guard in place while removing the hinge screw and nut.

2. On the pivoted guards, insert the detent pin through the interlocking barrels on the top of the guard to secure the front of the guard. Note: Failure to fully pivot and secure the front of the guard may cause serious injuries.

3. Slowly lower the saw, if necessary, until the blade just touches the ground.

4. Remove the blade shaft screw using the wrench.

5. 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 a setscrew into two of the holes on the outer flange to help separate the outer flange from the blade.

6. Inspect the flange assembly and clean or replace dirty/damaged components.

7. Carefully fit the outer flange back into the inner flange and/or blade shaft.

8. Place the lock washer and then the flat washer onto the blade shaft screw and insert the screw into the blade shaft through the center of the outer flange.

9. Retighten the blade shaft screw to secure the flanges.

10. Remove the detent pin (guards 26" and up) from the guard hinge and pivot the front of the guard down over the blade flanges to secure.

11. Re-insert the detent pin.
**Engine**

**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:

- Fill fuel tank, check engine oil and coolant levels.
- Turn off water valves.
- Turn off water safety switch.
- Turn off water pump switch.
- Place speed control lever at **Neutral**.
- Disengage transmission.
- Pull up on emergency stop button.
- Remove all tools from work area.

**Throttle Operation**
1. To increase engine/blade speed, press the throttle switch in the upwards direction
2. To decrease the engine/blade speed, press the throttle switch in the downward direction.

Starting the Engine

**Notice:** In an emergency, press the emergency stop button to immediately stop the engine and any saw movement!

1. Insert the key into the ignition and turn it to **RUN**; leave the key in this position until the main menu appears on the display, then turn the key to **Start** and release when the engine starts. **Note:** If the engine does not start within 10 seconds, turn off the key and try again approximately 30 seconds later. DO NOT allow the starter motor to run continuously for more than 20 seconds. Refer to the engine manual for troubleshooting recommendations after several failed attempts.

2. Let the engine warm up. Check all warning lights and turn off the engine immediately if there are any problems prior to operating the saw.

Stopping the Engine

**CAUTION**
- DO NOT leave the saw unattended until the engine is off and the blade has stopped spinning.

1. Place the speed control lever at **Stop** and raise the blade from the cut.
2. Turn off all controls, switches, and water.
3. Decrease the engine speed to idle for five minutes to cool down the engine after full load operation.
4. Turn the ignition key to **Stop** and remove the key.

**Speed Control Lever**
The speed control lever moves the saw forward and backward at up to 250 ft/min. **Note:** The engine must be running at half throttle or greater to move the saw using the speed control lever.
1. Slowly push the lever toward **Forward** to move the saw forward and release when at the desired traveling speed.
2. Slowly pull the lever toward **Reverse** to move the saw backward and release when at the desired traveling speed.
3. Place the lever at **Stop** to put the saw in neutral. **DO NOT** assume at any time that the neutral position will act as a brake when saw is running. **Note:** **Always start the engine with the speed control lever at Stop.**

**Blade Lowering Speed**

Turn the **Blade Lowering Speed** valve counterclockwise to increase the blade’s lowering speed and clockwise to decrease the blade’s lowering speed. **Note:** The valve does not adjust the blade’s raising speed.

The valve is located on the frame lift assembly directly in front of the operator on the CC7574DK and on the right hand side of the frame lift assembly on the CC7574DD.

**Water Supply**

The water supply cools the gearbox, blade and minimizes dust when cutting. **Note:** **Always test the water supply for adequate pressure and flow prior to cutting.**

**Using the Water Supply**

1. Ensure the water valves on the right and left side of the saw are shut.
2. Connect the water source hose to the water valve fitting on the left side of the saw.
3. Check the following supply hose connections to ensure they are tight:
   - Supply hose from the right side water valve to the inlet of the fuel cooler assembly.
   - Supply hose from the discharge of the fuel cooler assembly to the inlet of the water solenoid valve.
   - Supply hose from the discharge of the water solenoid valve to the inlet of the gearbox.
   - Supply hose from the discharge of the gearbox.
4. Connect water supply hose from the discharge of the gearbox to the water manifold on the blade guard.

5. Move the water valve lever on right side of saw to full open. Increase or decrease water flow by moving the valve lever on the left side of the saw connected to the source hose. *Note: water on/off operation and flow adjustment can be made from either side of saw, if desired.*

6. When finished cutting, shut off water supply to the blade guard, shut off water supply at source and remove source hose from the saw.

7. Drain water from upper gearbox heat sink. *(ref. maintenance instructions: upper gearbox)*

### Cutting Guides

Use the cutting guides as needed to help follow the cutting line. Always check the cutting guides for proper alignment with the blade prior to cutting.

#### Adjusting the Front Pointer

1. Remove the lanyard from the cable cleat.
2. Lower the front pointer frame to the ground.
3. Loosen both front pointer frame screws.
4. Divide an 8–10 ft piece of string in half.
5. Place the looped end of string into a gullet on the backside of the blade.
6. Place one string line up against the backside of the blade and one string line up against the front side of the blade. Holding the string ends in one hand, tension the lines out toward the front pointer rod.

7. Adjust the pointer rod to place the tip between the tensioned string lines.
8. Retighten both front pointer frame screws.
9. Lift the frame off the ground when finished.
10. Tension the lanyard and secure it to the cable cleat.

#### Adjusting the Rear Pointer(s)

1. Loosen the rear pointer nut and screw on the back of the frame base.
2. Adjust the orientation of the rear pointer rod and retighten the screw and nut to secure.

### 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 neutral 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 cut line.
2. If the saw is equipped with a clutch (optional), turn on the Blade Clutch switch with engine at idle to start the blade rotation.
3. Turn on the water and adjust the water flow.
4. Lower the blade to just above the cutting surface and set the cutting depth indicator at zero.

5. Turn on the Auto Water switch if desired for automatic water on/off when cutting. **Note:** When the cutting depth indicator enters the Auto Water On/Off Zone the water will turn on/off automatically and will not require the water flow to be reset every time the blade is lowered back into the cut. If the auto water feature is functioning in reverse (water goes off when blade is lowered into cut), rotate depth indicator 360 degrees to reset.

6. Slowly lower the blade into the surface at the start of the cut line for the initial cut. Make the initial pass across the entire cutting line using the most effective travel speed. If the blade is coming up out of the cut, decrease travel speed and/or feed depth. **DO NOT CUT FULL DEPTH IN ONE PASS.** 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 maximum initial 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 start of the cut line. DO NOT move backwards with the blade in a previous cut.

8. At the start of the cut line, lower the blade back into the cut and make a second, deeper pass across the entire cutting line.

9. Continue the step-cut process to reach the maximum depth. DO NOT cut any deeper than required.

**Making a Cut Using the Blade Depth Stop**

1. Align the blade and cutting guide(s) with the cut line.
2. If the saw is equipped with a clutch (optional), turn on the Blade Clutch switch with engine at idle to start the blade rotation.
3. Turn on the water and adjust the water flow.
4. Lower the blade to just above the cutting surface and set the cutting depth indicator at zero.
5. Turn on the Auto Water switch if desired for automatic water on/off when cutting.
6. Slowly lower the blade into the surface to the desired cut depth. **Note:** Initial cut should be less than 2 inches.
7. Push the Blade Depth Stop button to the “Set Blade Depth” position. The Blade Depth Set light will turn on, which means the cutting depth is set.
8. Raise the blade out of the cut and reposition the saw at the start of the cut. DO NOT move backwards with the blade in a previous cut.
9. Push the Blade Depth Stop button to the “Override Blade Depth” position and hold it down for approximately three seconds, noting when the Blade Depth Set light goes out. Set the cutting depth at a different depth measurement following guidelines in steps 6 & 7.
10. Continue the step-cut process using the depth stop 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 at Stop.
2. Raise the blade from the cut (provide proper ground clearance).
3. If the saw is equipped with a clutch (optional), turn off the Blade Clutch switch with engine at idle to stop the blade rotation.
4. Turn off the Auto Water switch and water supply.

Hood Operation
1. Pull up and out on rubber latch located on lower front of hood.
2. Grasp bottom of hood firmly and lift upwards.

Shifting Three Speed Transmission

CAUTION
- Do not attempt to shift transmission when motor is running

1. Stop engine.
2. Lift hood.
3. Lift and hold shift lever (1) and detent plunger (2).
4. Slide shift bar (3) until shift lever is over desired slot in shift gate (from left to right Medium, Low, Neutral, and High, marked M, L, N, and H).

Note:
You will need to rotate the output shaft BY HAND to complete this motion.
5. Drop shift lever into desired shift gate slot.
6. Make certain that the detent plunger is completely engaged.
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 CC7574 Parts List for additional information and part diagrams when performing maintenance tasks. Refer to the engine manual and 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.

**Maintenance Overview**

Complete the following tasks as required. DO NOT delay maintenance! Print the Daily Maintenance Task Chart from Appendix B to help keep track of maintenance tasks completed daily.

**Daily**

- Inspect the saw for damages and repair.
- Tighten loose nuts, screws, and bolts.
- Check all fluid levels (fuel, engine oil, hydraulic fluid, radiator fluid, upper and lower gearbox oil) and fill as necessary.
- Wipe down and clean all saw components to remove dust, debris, and slurry (especially from fans).
- Inspect all belts for tension and wear. Replace or tension as necessary.
- Clean the air cleaner (see engine manual).
- Check and clean the water filter strainer at water valve fitting.
- Clean the radiator and wipe down the cooling fan.
- Drain the upper gearbox heat sink.
- Drain water from water separator.
- Look for fluid leaks and check all hoses. Repair all damaged components.

**After First 50 Hours of service**

- Replace hydraulic oil filter.
  
  *Note: This is completed only after the first 50 hours of service, then it is completed every 250 hours as scheduled.*

**Every 100 Hours**

- Lubricate the front axle bearing grease fittings (2).
- Lubricate the hydraulic lift cylinder grease fitting (1).
- Clean the upper and lower gearbox breather vents.
- Change the upper and lower gearbox oil.
- Clean the in-line oil suction filter.

**Every 250 Hours**

- Change the hydraulic oil filter (replace once after first 50 hours, then as scheduled).
- Change the in-line fuel filter.

**Every 500 Hours**

- Change the radiator fluid.

*Note: Refer to the engine manual and manufacturer for a full list of routine engine maintenance tasks.*

**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, 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.*
**MAINTAINING THE CC7574**

**Fuel/Water Separator**

Inspect the fuel/water separator daily and drain as necessary. The unit is located on the left side of the saw near the alternator on the CC7574DK and on the left side attached to the inside of the fuel door on the CC7574DD.

1. Locate the drainage cap on the underside of the fuel/water separator.
2. Loosen the cap only enough to allow water to be discharged from drainage tube. *Do not remove the cap.*
3. When no more water is discharged, re-tighten the drainage cap.

**Speed Control Lever**

**Adjusting the Lever Tension**

Adjust the tension felt in the speed control lever, when moving the lever forward and backward, to the desired setting as necessary.

1. Remove the (4) M10-1.5 hex head bolts from the rear access panel.
2. Remove the access panel.

3. Remove the grease cap from the pivot housing.
4. Loosen the jam nut on the opposite side of the speed control frame using provided 15/16” wrench.

5. Use the Allen wrench, located on the access panel, to adjust the shoulder screw.
6. Retighten the jam nut.
7. Move the speed control lever forward and backward to test the lever tension. Readjust the shoulder screw/jam nut if desired.
8. Secure the grease cap to the pivot housing.
9. Replace access panel and retighten.
**Adjusting the Spring Plungers**

Adjust the spring plungers if the speed control lever feels floppy or loose when moving the lever forward and backward, or when the lever is hard to place into or out of the Stop position.

1. Loosen both hex nuts from the speed control tube.
2. Screw the spring plungers slightly out to let the speed control lever move easily into and out of the Stop position. Screw the spring plungers slightly in to let the speed control lever move forward and backward firmly in the forward/reverse slot.
3. Retighten both hex nuts to secure.

**Drive Alignment**

**Adjusting the Drive Alignment**

Adjust the rear axle when the saw’s drive alignment is off (saw will not cut in a straight line). *Note: The rear axle does not have to be adjusted for straightness; it can also be adjusted based on the specifications of the cutting job.*

1. Turn the tap bolt clockwise using the provided wrench to adjust the drive alignment toward the right, or counterclockwise to adjust the drive alignment toward the left.

**Inner Blade Flange**

**Installing the Inner Blade Flange**

1. Inspect the inner flange for damages. Clean or replace damaged components as necessary.
2. Align the flange with the blade shaft key and place the flange onto the blade shaft.
3. Apply Loctite 262 (red) or an equivalent to the setscrew threads.
4. Tighten the setscrew(s) into the back of the inner flange to secure.

**Removing the Inner Blade Flange**

1. Remove the setscrew(s) from the back of the inner flange using an Allen wrench.
2. Carefully remove the flange from the blade shaft.

**Wheels**

**WARNING**

- Raise the saw to a proper height for access when working underneath the saw. Use chocks to block the wheels, and fit blocks or jacks under the frame edges at the front and back of the frame.
**Replacing the Front Wheels**
Replace the front wheels when they are damaged and/or affecting saw performance.

1. Move the saw to level ground. Use a jack to lift the front wheels off the ground.
2. Remove all four screws from the wheel cover.
3. Pry the wheel cover gasket and wheel cover off the wheel using a screwdriver or pry bar.
4. Remove the screw securing the wheel, and then remove the wheel from the front axle.
5. Place a new wheel onto the front axle.
6. Fit the lock washer and then the flat washer onto the wheel screw and retighten the screw through the center of the wheel to secure.
7. Replace the wheel cover gasket and wheel cover, and retighten all four wheel cover screws to secure.
8. Replace the second front wheel as directed above.
9. Slowly lower the jack and remove the jack stand when the wheels are firmly touching the ground.

**Replacing the Rear Wheels**
Replace the rear wheels when they are damaged and/or affecting saw performance.

1. Move the saw to level ground. Use a jack to lift the rear wheels off the ground.
2. Pry the hubcap off the wheel using a screwdriver or pry bar.
3. Remove all four lug nuts from the wheel.
4. Remove the wheel and place a new wheel onto the wheel hub.
5. Replace the lug nuts and tighten to secure.
6. Replace the hubcap and secure in place using a rubber mallet.
7. Replace the second rear wheel as directed. Slowly lower the jack and remove the jack stand when the wheels are firmly touching the ground.

**Maximum Cutting Depth**

**WARNING**
- Raise the saw to a proper height for access when working underneath the saw. Use chocks to block the wheels, and fit blocks or jacks under the frame edges at the front and back of the frame.

Always adjust the maximum cutting depth when changing the blade size, sheave size, flange size, and belt size to avoid damaging saw components. Refer to the CC7574 Parts List for additional information.

1. Raise the saw to gain access to the maximum cutting depth bolts underneath the frame base.
2. Loosen the nut on both bolts.
3. Turn the bolts counterclockwise to decrease the maximum cutting depth, or turn the bolts clockwise to increase the maximum cutting depth. Note: Both bolts must be the same length when finished.
4. Bottom out the nut on each bolt with the frame base to secure the bolts.
6. Remove all tools from the area and lower the saw completely. The blade flanges must be at least 1/4” from the ground to prevent component damage. Note: Make sure both skid plates on the front of the saw are in the correct set of holes in order to lower the saw completely (refer to CC7574 Parts List).

7. Readjust the depth bolts as necessary.

**Handlebar Cylinder Rod**

The handlebar cylinder rod must be serviced by Diamond Products if the handlebars can be moved up or down in excess amounts when locked in place (movement may feel sluggish). Send the entire assembly to Diamond Products to be recharged or pressurized.

**Removing the Cylinder Rod**

1. Disconnect the two wires from the solenoid block valve.
2. Remove the hairpin cotter and clevis pin from the cylinder rod end.
3. Holding the cylinder, remove the hairpin cotter and clevis pin from the isolator mount tube.
4. Remove the entire assembly from the saw.

**Connecting the Cylinder Rod**

1. Fit the cylinder into the cylinder rod end mount and isolator mount tube.
2. Fit the clevis pin through the cylinder rod end mount and cylinder rod end. Secure in place with the hairpin cotter.
3. Fit the second clevis pin through the isolator mount tube and cylinder u-block. Secure in place with the hairpin cotter.

**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.
**Battery**

- **Battery Type**
  - 12 Volt, Group 31 (CC7574DK)
  - 12 Volt, Group 24 (CC7574DD)

**Servicing the Battery**

1. Unsecure the battery from the hold-down bracket as follows:
   - CC7574DK – Remove the two ratchet knobs from the battery hold-down tie rods and lift the hold-down bracket lid off.
   - CC7574DD – Unbuckle the battery hold-down strap.
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. Carefully remove the battery from the battery box.
5. When replacing the battery, carefully place a new battery into the battery box. Bring the old battery to a recycling facility; many battery retailers also accept old batteries.
6. 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 box.
7. Reconnect the positive cable lead to the positive battery terminal. *Note: Always reconnect the positive cable first.*
8. Reconnect the negative cable lead to the negative battery terminal.
9. Re-secure the battery to the hold-down bracket as follows:
   - CC7574DK – Re-insert the hold-down battery lid over the two tie rod bolts and tighten it using the two ratchet knobs.
   - CC7574DD – Re-attach the hold-down strap to the buckle and tighten securely.

**Electrical System**

**WARNING**

- Disconnect the battery when servicing the electrical system unless stated otherwise.
- Always use the correct size fuses (amps) to prevent fires.

Inspect all fuses if switches or controls are not working properly and replace as necessary. If fuses are failing frequently, determine the cause and repair immediately. Refer to the CC7574 Parts List for electrical diagrams.

**Radiator**

- Open radiator door, hose down the radiator and wipe down the radiator fan daily.

**CAUTION**

- Do not use a high pressure spray to clean the radiator as this will damage the radiator fins and reduce the cooling capacity.
• Turn off the saw and inspect the cooling system when the coolant temperature light turns on, or when the coolant temperature gauge passes the red mark.

Adding Radiator Fluid – CC7574DK
1. Remove the coolant recovery tank cap.
2. Add a 50/50 mix of water and anti-freeze, as called out in the CC7574DK Parts List, to the tank. Note: Refer to the Cold Full and Hot Full marks when filling and operating.

Coolant Recovery Tank – CC7574DK
3. Replace the coolant recovery tank cap and tighten to secure.

Adding Radiator Fluid – CC7574DD
The coolant system on the CC7574DD is a pressurized system. Care must be taken when servicing the system.

1. Remove the coolant expansion tank cap.
2. Add Deutz approved anti-freeze, as called out in the CC7574DD Parts List, to the expansion tank. Fill only to the bottom of the fill tube, approximately 50% of tank capacity, to ensure enough air volume is present for coolant expansion.
3. Replace the coolant expansion tank cap and tighten to secure.

Coolant Expansion Tank – CC7574DD

Changing the Radiator Fluid – CC7574DK
Change the radiator fluid every 500 hours of operation, or every two years (whichever comes first). DO NOT drain the radiator fluid when hot.

1. Open the radiator door.
2. Place a drain pan under the radiator drain valve.

Drain Valve Wing Nut

3. Slowly remove the radiator cap. Note: Remove the radiator cap only when it feels cool to the touch, and always open it slowly to relieve any built up pressure.
4. Loosen the drain valve wing nut (below radiator door) and drain the fluid completely. Dispose of the used fluid according to city, state, and federal regulations.
5. Tighten the drain valve wing nut to secure.
6. Open the air bleed valve wing nut (inside radiator door, near top of door).

Air Bleed Valve Wing Nut

7. Add a 50/50 mix of water and anti-freeze, as called out in the CC7574DK Parts List, through the radiator fill port until it begins to leak out of the air bleed valve.
8. Close the air bleed valve wing nut.
9. Add more radiator fluid through the fill port until the fluid reaches the overflow hole inside the filler neck.
10. Replace the radiator cap and retighten to secure.

**Changing the Radiator Fluid – CC7574DD**

Change the radiator fluid every 500 hours of operation, or every two years (whichever comes first). DO NOT drain the radiator fluid when hot.

1. Open the radiator door.
2. Place a drain pan under the radiator drain valve.
3. Slowly remove the coolant expansion tank cap. **Note:** Remove the expansion tank cap only when it feels cool to the touch, and always open it slowly to relieve any built up pressure.
4. Loosen the drain valve wing nut (below radiator door) and drain the fluid completely. Dispose of the used fluid according to city, state, and federal regulations.
5. Tighten the drain valve wing nut to secure.
6. Add Deutz approved anti-freeze, as called out in the CC7574DD Parts List, to the expansion tank. Fill only to the bottom of the fill tube, approximately 50% of tank capacity, to ensure enough air volume is present for coolant expansion.
7. Replace the coolant expansion tank cap and retighten to secure.

**Bleeding Air from the Coolant System – CC7574DK**

After initially filling the coolant system with fluid, air pocket(s) may form causing a low coolant level condition that will prevent the engine from starting. If this happens, complete the following procedure:

1. Ensure the engine is cool.
2. Slowly remove the radiator cap. **Note:** Remove the radiator cap only when it feels cool to the touch, and always open it slowly to relieve any built up pressure.
3. Open the air bleed valve wing nut (inside radiator door, near top of door).
4. Add a 50/50 mix of water and anti-freeze, as called out in the CC7574DK Parts List, through the radiator fill port until it begins to leak out of the air bleed valve.
5. Close the air bleed valve wing nut.

6. Add additional radiator fluid through the fill port until the fluid reaches the overflow hole inside the filler neck.
7. Replace the radiator cap and retighten to secure.

**Hydraulic System**

**WARNING**

- 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!
- Always make sure any hydraulic components being serviced are not supporting the weight of other saw components. If a particular component is under pressure when connections points are loosened, oil may spray out forcefully.

Inspect all hydraulic hoses and fittings daily for leaks. Remember to use cardboard or a piece of paper when checking for leaks and replace damaged components immediately.

**Adding Fluid to the Hydraulic Lift Pump**

Check the fluid daily and add fluid to the pump as necessary.

1. Lower the saw to level the frame.
2. Remove pump cover.
3. Remove the shorter hydraulic pump breather cap.
4. Add SAE15W-40 oil or an equivalent to just below where the fill port extends into the hydraulic pump. Do not overfill, as this will cause oil leakage through the breather cap when raising the saw.
5. Replace the breather cap and retighten to secure.

**Adding Hydraulic Fluid to the Hydro Pump Reservoir Tank**

Check the hydraulic fluid daily and add fluid to the reservoir tank as necessary.

1. Lower the saw to level the engine.
2. Remove the reservoir tank cap.
3. Add SAE 15W-40 oil or equivalent to the reservoir tank fill line. DO NOT overfill as fluid will leak out from the reservoir cap. Replace the cap and tighten to secure.

**Replacing the Hydraulic Oil Filter**

Replace the hydraulic oil filter after the first 50 hours of operation, and then every 250 hours.

1. Lower the saw completely.
2. Place a drain pan under the filter.
3. Remove the filter using an appropriate tool. Dispose of the used oil and filter according to city, state, and federal regulations.
4. Wipe down the sealing surface with a clean cloth, and use clean oil to lightly oil the filter gasket.
5. Fill new filter with SAE15W-40 oil. Remove bracket to allow attachment of filter in vertical position.
6. Tighten the new filter to the filter head following the directions on the filter.
7. Inspect the seal for leaks and recheck the oil level in the reservoir.

**Upper Gearbox**

Clean the upper gearbox breather vent (inside breather cap) using compressed air to remove oil, dirt, and slurry every 100 hours.

**Changing the Upper Gearbox Oil**

Change the upper gearbox oil every 100 hours.

1. Lower the saw to level the frame.
2. Place a drain pan under the gearbox drain plug (underneath gearbox, near front of box for single speed & on the right hand side cover for the 3-speed).
3. Remove the gearbox drain plug and drain the oil completely. Dispose of the used oil according to city, state, and federal regulations.
4. Replace the drain plug and retighten to secure.
5. Remove the oil fill breather cap and add Mobil 1 Synthetic Gear Lube 75W-90 oil to the upper gearbox to at least half full (view level through sight glass).
6. Replace the oil fill breather cap and retighten to secure.

**Upper Gearbox & 3-Speed Gearbox**

1. Lower the saw to level the frame.
2. Place a drain pan under the gearbox drain plug (underneath gearbox, near front of box for single speed & on the right hand side cover for the 3-speed).
3. Remove the gearbox drain plug and drain the oil completely. Dispose of the used oil according to city, state, and federal regulations.
4. Replace the drain plug and retighten to secure.
5. Remove the oil fill breather cap and add Mobil 1 Synthetic Gear Lube 75W-90 oil to the upper gearbox to at least half full (view level through sight glass).
6. Replace the oil fill breather cap and retighten to secure.
**Maintaining the CC7574**

**Draining the Upper Gearbox Heat Sink**

> Drain the heat sink daily; especially in freezing weather conditions.
> 1. Lower the saw completely.
> 2. Open the water drain valve on the heat sink and drain the heat sink completely.
> 3. Close the water drain valve.

**Lower Gearbox**

Clean the lower gearbox breather vent (at end of vent tube) using compressed air to remove oil, dirt, and slurry every 100 hours.

**Changing the Lower Gearbox Fluid**

Change the lower gearbox fluid every 100 hours.

1. Place a drain pan under the gearbox drain plug (on back of gearbox).

2. Remove the gearbox drain plug and drain the fluid completely. Dispose of the used fluid according to city, state, and federal regulations.
3. Replace the drain plug and retighten to secure.
4. Lower saw to level frame.
5. Remove the red vinyl plug from the frame base (below gearbox) to view the fluid level from the sight glass.
6. Remove the fill cap and add Synthetic ATF fluid to the lower gearbox to at least half full (view level through sight glass).
7. Replace the fill cap and retighten to secure.
8. Replace the red vinyl plug in frame base.

**Cleaning the In-Line Oil Suction Filter**

Clean the in-line oil suction filter every 100 hours. Replace the filter when it cannot be properly cleaned or is damaged.

1. Lower the saw completely.
2. Place a drain pan underneath the filter.
3. Use a wrench to hold the hex filter cap in position. Use another wrench on the barrel flats and loosen the barrel from the cap. A very small amount of oil may drain. Dispose of the used oil according to city, state, and federal regulations.
4. Remove the spring and bronze element from the barrel. Clean the inside of the barrel and the bronze filter element using an industrial cleaning solvent. Replace the filter if damaged or not cleanable.
5. Fit the bronze filter inside the spring and place the assembly back into the filter barrel.
6. Retighten the filter barrel to the hex filter cap to secure.
Belt Sheaves

The upper and lower belt sheaves may need to be changed when changing the blade size. Refer to the CC7574 Parts List for additional information.

Removing the Belt Sheaves

1. Loosen the two engine cradle screws.
2. Loosen the nut away from the engine foot on both blade drive belt tension bolts.
3. Turn both blade drive belt tension bolts (large threaded bolt on engine foot) counterclockwise to loosen the belts.
4. Remove both sets of belts from the four sheaves.
5. Remove both setscrews from one of the sheaves.
6. Place one of the removed setscrews into the third setscrew hole (in line with slot) on the bushing. Using a 1/2” impact wrench, tighten the setscrew into the hole to separate the sheave from the bushing. If the sheave and bushing will not separate, wedge a flat-head screwdriver into the slot on the bushing and tap the other end of the screwdriver with a rubber mallet to separate the sheave and bushing.
7. Remove the sheave from the bushing.
8. Repeat steps 5–7 to remove the three remaining sheaves.
9. Remove the setscrew used to separate the sheave and bushing from all four bushings.

Installing the Belt Sheaves

1. Fit the appropriate size sheave onto each bushing.
2. On one side of the saw, place a straightedge against the edge of the upper or lower sheave.

Blade Drive Belts

**WARNING**
- Turn off the engine 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 reduce the life of the gearbox bearings. Under-tensioning belts may cause slippage, shorter belt life, and/or poor saw performance. Squealing belts indicate looseness.
Tensioning/Replacing the Blade Drive Belts

1. Test the belt tension.
2. Loosen the two engine cradle screws. If tensioning the belts, proceed with steps 7–9. If replacing the belts, continue with steps 3–9.
3. Loosen the nut away from the engine foot on both blade drive belt tension bolts.
4. Turn both blade drive belt tension bolts (large threaded bolt on engine foot) counterclockwise to loosen the belts.
5. Remove both sets of belts from the four sheaves.
6. Loop and align the first matched set of belts around the lower gearbox sheave and then around the upper gearbox sheave, and repeat with the second matched set of belts. Repeat the procedure for the second set of sheaves.
7. Turn both blade drive tension bolts (large threaded bolt on engine foot) clockwise equally to tighten the belts. Test the belt tension and readjust the bolts as necessary. DO NOT exceed the manufacturer’s tension settings.
8. Tighten the nut on both blade drive belt tension bolts down to the engine foot.
9. Retighten the two engine cradle screws.

In-Line Fuel Filter

Change the in-line fuel filter every 250 to 500 hours, depending on the amount of buildup in the filter.

1. Lower the saw completely.
2. Place a drain pan under the hoses and in-line filter.
3. Pinch the hose on both sides of the filter using an appropriate pinch-off tool for tubing.
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 fuel pump 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. Remove the pinch-off tool from the hoses and check for leaks.
**Engine**

---

**WARNING**
- Let the engine cool down prior to servicing the saw.
- **DO NOT** service the saw with the engine running (unless stated otherwise).

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

**Cleaning the Engine**

Clean and wipe down the engine’s exterior, fans, and guards daily to prevent high operating temperatures.

**Changing Engine Oil**

- Refer to Engine Operators manual for oil specifications and capacities.
- Change the oil after the first 50 hours of operation, then every 500 hours afterward.
- If the annual operating hours are less than 500, change the oil every year.
- The oil filter should be changed when the oil is changed.
- Refer to Engine Manual for Oil Filter Specifications.

**Oil Drain Valve**

4. Remove red plastic drain plug and open drain valve on side of oil pan.
5. Drain oil completely and dispose of according to city, state and federal regulations.
6. Shut oil drain valve and replace red plastic drain plug.
7. Return oil drain hose to original position on engine side of the lift pump.
8. Replace hydraulic pump cover and retighten.

**Air Cleaner**

**Restriction Indicator**

- Service the air filters when the restriction indicator turns red.
- Press the restriction indicator reset button on the top of the indicator to reset the unit after the air filters has been serviced.
MAINTAINING THE CC7574

Rubber Dust Ejector Boot
The rubber dust ejector boot valve ejects debris and water when operating the saw. Occasionally inspect and clean the ejector boot.

- Press inward on both sides of the ejector boot near the valve opening to release debris and water, and clean the valve opening as necessary.

Cleaning/Replacing the Outer Primary Filter
Service the outer primary filter according to the restriction indicator service bar. Replace the filter annually. DO NOT operate the saw without the filter installed.

1. Pull out the tab on the air cleaner housing end cover.

2. Turn the end cover counter-clockwise to unlock and pull the cover away from the main air cleaner housing.

3. Pull the outer primary filter out of the air cleaner and inspect it for damages. Replace as necessary.

4. Move away from the saw and clean the filter from the inside out. Use dry compressed air to clean the filter (a maximum of 40 psi or 2.75 bar).

5. Inspect the inside of the air cleaner housing and the end cover for debris, and wipe them down with a damp cloth as necessary. DO NOT use compressed air to blow out the inside of the air cleaner housing. DO NOT allow dust to enter the air intake tube when cleaning or replacing parts.

6. Place the filter into the air cleaner housing (over the inner safety filter) and gently push the filter into the unit until it feels secure.

7. Place the end cover tightly up against the ridge at the end of the air cleaner housing.

8. Turn the end cover clockwise to lock the cover onto the air cleaner housing, making sure the dust ejector boot is in the vertical position.

9. Push the tab in on the air cleaner housing end cover to secure.

Replacing the Inner Safety Filter
- DO NOT clean the inner safety filter.
- Replace it after approximately one year, or if there are damages. DO NOT operate the saw without the filter installed.

1. Pull the tab out on the air cleaner housing end cover.

2. Turn the end cover counter-clockwise to unlock and pull cover away from the air cleaner housing.
3. Pull the outer primary filter and the inner safety filter out of the air cleaner housing. Inspect the outer primary filter for damages and replace as necessary.

4. Inspect the inside of the air cleaner housing and the end cover for debris, and wipe them down with a damp cloth as necessary. DO NOT use compressed air to blow out the inside of the air cleaner. DO NOT allow dust to enter the air intake tube when cleaning or replacing parts.

5. Insert a new inner safety filter into the air cleaner housing and gently push the filter into the unit until it feels secure.

6. Place the outer primary filter into the air cleaner housing (over the inner safety filter) and gently push the filter into the unit until it feels secure.

7. Place the end cover tightly up against the ridge at the end of the air cleaner housing.

8. Turn the end cover clockwise to lock the cover onto the air cleaner housing.

9. Push the tab in on the air cleaner housing end cover to secure.

**Storing**

Complete the tasks listed below prior to storing the saw for longer time frames:

- Drain the water lines/hoses.
- Turn off all switches and controls.
- Lower the saw completely to remove strain on the lifting mechanism.
- Clean and wipe down the saw to remove dust, debris, and slurry from saw components (especially fans).
- Remove the battery and store in a proper location, 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. Complete the tasks listed below when discontinuing usage:

- Drain all fluids and dispose of according to city, state, and federal regulations.
- Remove the battery and bring to a recycling facility; many battery retailers also accept old batteries.
- Transport the saw to a salvage yard or recycling facility.

- Refer to the engine manual for all engine and fuel recommendations prior to storing.
- Store the saw in a dry area, protected from outdoor elements and out of reach from children.
Appendix A

Model and Serial Numbers

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

<table>
<thead>
<tr>
<th>Serial Number</th>
</tr>
</thead>
</table>

Record the engine’s model and serial numbers below for future reference and customer service purposes.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Serial Number</th>
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</table>
## Appendix B

### Daily Maintenance Task Chart

<table>
<thead>
<tr>
<th>Date</th>
<th>✓</th>
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<th>✓</th>
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<th>✓</th>
<th>✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Inspect all belts for tension and wear. Replace or tension as necessary.</td>
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<td>2.</td>
<td>Inspect the saw for damages,</td>
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<td>3.</td>
<td>Tighten loose nuts, screws, and bolts.</td>
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<td>4.</td>
<td>Check fuel level and fill as necessary.</td>
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<td>5.</td>
<td>Check engine oil level and fill as necessary.</td>
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<td>6.</td>
<td>Check hydraulic fluid level and fill as necessary.</td>
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<td>7.</td>
<td>Check transmission fluid level and fill as necessary.</td>
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<td>8.</td>
<td>Check radiator coolant level and fill as necessary.</td>
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<tr>
<td>9.</td>
<td>Wipe down and clean all saw components to remove dust, debris, and slurry.</td>
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<td>10.</td>
<td>Clean the air cleaner (see engine manual).</td>
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<tr>
<td>11.</td>
<td>Check and drain the fuel/water separator as necessary.</td>
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<tr>
<td>12.</td>
<td>Clean the radiator and wipe down the cooling fan.</td>
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<tr>
<td>13.</td>
<td>Drain the heat sink.</td>
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<tr>
<td>14.</td>
<td>Look for fluid leaks and check all hoses. Repair all damaged components.</td>
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<tr>
<td>15.</td>
<td>Refer to the engine manual and manufacturer for daily engine care and routine maintenance tasks.</td>
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<td></td>
</tr>
</tbody>
</table>
### Troubleshooting the CC7574DK

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fuel lines clogged?</td>
<td>Unclog or replace fuel lines.</td>
</tr>
<tr>
<td></td>
<td>Air in fuel lines?</td>
<td>Bleed fuel lines.</td>
</tr>
<tr>
<td></td>
<td>Worn out battery?</td>
<td>Charge or replace battery.</td>
</tr>
<tr>
<td></td>
<td>Faulty battery connection?</td>
<td>Inspect, clean, and tighten battery cables.</td>
</tr>
<tr>
<td></td>
<td>Engine malfunction?</td>
<td>Refer to engine manual.</td>
</tr>
<tr>
<td></td>
<td>Bad fuse?</td>
<td>Check and replace bad fuses.</td>
</tr>
<tr>
<td>2. Engine will not start due to a shutdown condition indicated on display panel.</td>
<td>E-Stop is active.</td>
<td>Pull up emergency stop button.</td>
</tr>
<tr>
<td></td>
<td>Coolant level is extremely low.</td>
<td>Fill coolant system in accordance with “Bleeding Air from the Coolant System” procedure outlined in the Maintenance section of this manual.</td>
</tr>
<tr>
<td></td>
<td>Back door panel is open.</td>
<td>Shut and latch the radiator door.</td>
</tr>
<tr>
<td></td>
<td>Defective solenoid start switch?</td>
<td>Replace solenoid on hydraulic pump unit.</td>
</tr>
<tr>
<td></td>
<td>Worn out battery?</td>
<td>Charge or replace battery.</td>
</tr>
<tr>
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</tr>
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<td></td>
<td>Low hydraulic fluid?</td>
<td>Check hydraulic fluid level and fill as necessary.</td>
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<td>Defective valve coil?</td>
<td>Check for magnetism of valve stem when activated.</td>
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<td>Defective lowering button?</td>
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<td></td>
<td>Skid plates in wrong set of holes?</td>
<td>Adjust skid plates to correct set of mounting holes.</td>
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<td>Maximum cutting depth set incorrectly?</td>
<td>Adjust maximum cutting depth bolt.</td>
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<td></td>
<td>Excessive force used when sawing?</td>
<td>Reduce forward speed. DO NOT twist blade from side to side.</td>
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<td>Wrong blade?</td>
<td>Contact dealer/manufacturer of blade.</td>
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<td></td>
<td>Sheaves misaligned?</td>
<td>Use straightedge to check blade shaft sheave alignment. Adjust as necessary.</td>
</tr>
<tr>
<td></td>
<td>Worn sheave grooves?</td>
<td>Check for groove wear and replace sheaves when necessary.</td>
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<tr>
<td></td>
<td>Mismatched belts?</td>
<td>Replace with matched set of belts. DO NOT use old and new belts together.</td>
</tr>
</tbody>
</table>
# Troubleshooting the CC7574DD

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fuel lines clogged?</td>
<td>Unclog or replace fuel lines.</td>
</tr>
<tr>
<td></td>
<td>Air in fuel lines?</td>
<td>Bleed fuel lines.</td>
</tr>
<tr>
<td></td>
<td>Worn out battery?</td>
<td>Charge or replace battery.</td>
</tr>
<tr>
<td></td>
<td>Faulty battery connection?</td>
<td>Inspect, clean, and tighten battery cables.</td>
</tr>
<tr>
<td></td>
<td>Engine malfunction?</td>
<td>Refer to engine manual.</td>
</tr>
<tr>
<td></td>
<td>Bad fuse?</td>
<td>Check and replace bad fuses.</td>
</tr>
<tr>
<td>2. Engine will not start due to a shutdown condition indicated on display panel.</td>
<td>E-Stop is active.</td>
<td>Pull up emergency stop button.</td>
</tr>
<tr>
<td></td>
<td>Back door panel is open.</td>
<td>Shut and latch the radiator door.</td>
</tr>
<tr>
<td></td>
<td>NOTE: All problems must be cleared before saw will restart.</td>
<td>Check for proper operation of the door interlock switch.</td>
</tr>
<tr>
<td>3. Low engine coolant level warning indicated on display panel.</td>
<td>Coolant level is extremely low.</td>
<td>Fill the coolant system in accordance with the “Adding Radiator Fluid” procedure outlined in the Maintenance section of this manual</td>
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<td>5. Saw will not lower.</td>
<td>Debris in lowering valve stem?</td>
<td>Inspect and clean stem.</td>
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<td>7. Saw lowers too slow or too fast.</td>
<td>Improper lowering speed setting?</td>
<td>Adjust blade lowering speed valve.</td>
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Appendix D

Additional Resources

1. Kubota (www.kubota.com)
   - Operator’s Manual Kubota Engine, V3307-CR-T-E4-B
   - Operator’s Manual Deutz Engine, TD-2.9-L4

2. Diamond Products (www.diamondproducts.com)
   - CC7574 Concrete Saw Parts List; Ohio, 2010
   - 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)

3. Concrete Sawing and Drilling Association (www.csda.org)
   - The CSDA has many helpful concrete cutting publications available to members and non-members.

4. 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.

5. Occupational Safety & Health Administration (OSHA) (www.osha.gov)
   - OSHA provides information on work-related safety and health practices.

6. The National Institute for Occupational Safety and Health (NIOSH) (www.cdc.gov/NIOSH)
   - NIOSH provides information on work-related safety and health practices.
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.