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# OWNER'S MANUAL

# SMALL PUSH WALK-BEHIND SAW Model: C914P | C914PK

**CAUTION:** Read all safety and oper This manual MUST accompany the







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We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto,
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Important warnings and pieces of advice are indicated on the machine with icons.

### HAZARD ICONS

	Fuel (gasoline) is extremely flammable, and its vapors can explode if ignited. Store gasoline only in approved containers, in well-ventilated, unoccupied approved areas, and away from sparks or flames. Do not fill the fuel tank while the engine is hot or running. Do not start the engine near spilled fuel. Never use the fuel as a cleaning agent
	Hot surface! Do not touch. Engine components can get extremely hot from operation. To prevent burns, do not touch the engine or related parts while the engine is running or immediately after it is turned off. Never operate the engine with any heat shields or guards removed.
$\bigcirc$	Keep all guards in place when operating any piece of equipment.
2	Moving parts can crush and cut. Keep hands, feet, hair, and loose clothing away from all rotating parts.
	Lethal Exhaust Gas: use only in well ventilated areas. Engine exhaust gases contain poisonous carbon monoxide, which is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.
	Never tamper with the governor components of settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speed above maximum. Always obey the maximum speed rating of blade.
	Warning alert symbol. DO NOT LIFT THE SAW BY THE HANDLEBARS OR CUTTING TABLE.

Important warnings and pieces of advice are indicated on the machine with icons.

#### SAFETY ICONS



# SAFETY PRECAUTIONS

### **DUST AND SILICA WARNING**

Grinding/cutting/drilling of masonry, concrete, metal, and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials and make certain to comply with all product warnings and instructions for the safe and effective use of the material being cut. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist, and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturer/supplier, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated through engineering controls such as vacuum and/or water mist, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the material being cut.

### **CALIFORNIA PROPOSITION 65 MESSAGE**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- · Crystalline silica, from bricks and cement and other masonry products
- · Arsenic and chromium, from chemically treated lumber

#### For Addition Information Consult the Following Sources:

<u>http://www.osha.gov/dsg/topics/silicacrystalline/index.html</u> <u>http://www.cdc.gov/niosh/consilic.html</u> <u>http://oehha.ca.gov/prop65/law/P65law72003.html</u> <u>http://www.dir.ca.gov/Title8/sub4.html</u>



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm

**Use Approved:** 







Respiratory Protection



# SAFETY PRECAUTIONS

- 1. Before mounting any blade on the saw, the blade should be inspected for any damage which might have occurred during shipment, handling, or previous use.
- 2. The blade collars & arbors should be cleaned and examined for damage before mounting the blade.
- 3. The blade shaft nut, which is a left-hand thread nut, must be tightened securely against the outside blade shaft collar.
- 4. The blade shaft nut must be tightened securely against the outside blade shaft collar.
- 5. The blade must be operated within the specified maximum operating speed listed on the blade.
- 6. Always us water for blade cooling and dust control using water tank or water hose hook-ups turn water control valve to full to provide adequate coolant (4 to 6 gallons per minute) for diamond blades. Insufficient coolant could result in severe blade breakage or diamond segment separation. DO Not Wet Cut with Abrasive Blades.
- 7. The blade guard must be in place with the nose guard down and locked before starting & running the machine.
- 8. The operator should wear safety glasses and any other appropriate safety equipment.
- 9. When starting the saw, the operator & spectators should stand away and to the side of the blade.
- 10. If for any reason the saw should stall in the cut, remove the material from the blade. Check the outside blade shaft collar and nut for tightness. Inspect the blade for damage before restarting the saw. Use caution when resuming a cut be certain that the blade is in alignment with the previous cut using the saw pointer.
- 11. During cutting operations do not exert excess side pressure on the handles as a method of steering. Do not force the blade into the cut by lowering the blade too fast or by pushing the saw too fast.



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The C914P and C914PK are the same machine being the engine brand the only exception. The C914P uses a Honda GX270 9HP engine while the C914PK a Kohler 9HP CH395 engine.

The compact concrete saws are shipped completely assembled and ready for use except for Handlebar, Diamond Blade, Gasoline, and Engine Oil.

Inspect the saw for shipping damage. If any damage is found, contact the shipper immediately and file a freight claim. Norton Clipper is not responsible for any freight-related damages.



# PREPARATION



Remove the saw from the pallet. Inspect the machine for concealed shipping damaged. Read and understand ALL instruction included in this manual.

Failure to understand and follow the instruction covered in this manual can result in injury to persons or damage to the machine.

- Loosen the Handlebar Retaining Jam Nuts and Bolts. Remove the Handlebars from the Frame and rotate 180° so that the Hand Crips will be towards the Operator.
- 2. Slide the Handlebar Assembly into the frame, adjust to the Operator's desired height, and align the nearest Hole in the Handlebar Assembly with the top Retaining bolt.
- 3. Tighten both Handlebar Retaining Bolts and Tighten the Jam Nuts. See Figure: Handlebar Assembly



Figure: Handlebar Assembly

Level the cutting frame and check the engine oil level and add if required (See Engine Manual) and add fuel (See Engine Manual). NOTE: Do not install the blade until it is time to use the saw. ANSI regulations prohibit the transportation of any concrete saw with the blade installed. Handlebar Installation.



#### **Lifting Points**

- Never move or lift the machine with the engine running •
- Never lift the machine by the handlebars, pointer, water tank, blade guard, or hand wheel
- Never transport any machine with the blade installed



DO NOT LIFT THE SAW BY THE HANDLEBARS

Dimensions/Weight	C914P C914PK				
Length (Working)	57-55/64" (1,469)				
Length (Transport)	35-37/64" (929)				
Width	37-59/64" (963)				
Height	21-9/32" (541)				
Weight	169.4 (77)				
Engine					
Engine Mfg.	Honda	Kohler			
Model	GX270	CH395			
Manufacturers Spec No.	GX270QXC PA-CH395-3149				
Engine Type	Single Cylinder 4 Cycle	Single Cylinder 4 Cycle			
Horsepower - Gross	9 hp* (6.7kW)	9 hp* (7.1kW)			
	@ 3,600 rpm	<b>()</b> @ 3,600 rpm			
Max Torque – Gross	14 ft-lbs (19 Nm)	13.9 ft-lbs (18.8 Nm)			
	@ 2,500 rpm	@ 2,500 rpm			
Cooling System	Air	Air			
Oil Capacity	1.16 US qt (1.1 liter) 📃 📎	1.16 US qt (1.1 liter)			
Fuel Capacity	1.79 US gal (6.5 liter)	1.75 US gal (6.8 liter)			
Fuel Type	Unleaded Gasoline (86 pump	Unleaded Gasoline (86 pump			
Low Oil Sensor	Yes	Yes			
Air Filtration	Four Stage Cyclone	Four Stage Quad Clean			
Characteristics					
Max Blade	x Blade 14" (355 mm) 14" (3				
Depth of Cut		· ,			
14" (355 mm)	4-5/8" (1	117 mm)			
12" (305 mm)	3-5/8" (	92 mm)			
10" (254 mm)	2-5/8" (	(67 mm)			
Arbor Bore	1" (25.	4 mm)			
Blade Shaft Locking Device	Machined Into Fla	ats of Tight Collar			
Blade Shaft Speed	2,840	) rpm			
Depth Control	Hand Wheel W	ith Screw Feed			
Depth Lock	Stan	dard			
Number Of Belts	Three (3) XP	Z610 Belts			
Blade Guard Type	Hinged, All Ste	el Construction			
Right or Left Side Cutting	N	lo			
Lifting Bale	Bui	lt-In			
Handlebars	Adjustable, Stays	Level at All Times			
Water Tank	Stan	dard			
Water Tank Capacity	6.5 US Gallo	ns (24.6 liter)			
Water Hose Connector	Standard Garden Hose	with Flow Control Valve			
Recessed Rear Wheels	Stan	dard			
Sound pressure1	88 D	b(A)			
Sound power1	105 [	Db(A)			
Vibration emission value	9.18 ft/ s² (2.8 m/s²) (a	ccording to EN 12096)			

\* = Horsepower and Torque ratings are Gross Horsepower and are supplied by the engine manufacturer. Actual output of the engine will vary due to many factors including operational speed of engine, environmental conditions, maintenance, fuel, and other variables. Saint-Gobain Abrasives, Inc. makes NO claim to actual or gross horsepower and torque ratings. 1) The sound measures have been made following pr EN 12638, Annex A; 2) "Floor sawing, grooving and milling machines – Safety"

#### Additional Engine Specifications

Prior to attempting to operate the engine, read the information contained in the engine owner's manual. An engine owner's manual is supplied with every gasoline powered concrete saw.

- 1. Check Oil: Add oil if low. Refer to the engine owner's manual for the recommended SAE viscosity grades. Capacity of oil is 1.16 US quarts (1.1 liters) for Honda powered C914P and 1.4 US qt (1.3 liter) for Kohler powered C914PK models
- 2. Check Fuel: Fill if low. Use only unleaded gasoline with a pump sticker octane rating of 86 or higher is recommended. Never use an oil and gasoline mixture!
- 3. Air Cleaner: Never run the engine without the air cleaner! Rapid engine wear will result from contaminants being drawn through the carburetor and into the engine.
- ad 4. Engine Starting: Refer to the engine owner's manual additional proper engine

### Operation

### Installing the Blade

- 1. Disconnect the spark plug.
- Pull the Blade Guard Locking Pin Way from the Blade Guard and Pivot the Blade Guard out of the Way see Figure: Blade Guard Locking Pin for details.
   NOTE: Blade Guard Locking Pin is under spring tension & will automatically move towards the Blade Guard, if it doesn't immediately replace Blade Guard Locking Pin before using the saw.
- 3. Pivot Blade Guard UP to provide access to Blade Shaft Nut and Blade Collars see **Figure**: *Blade Attachment Components* for details.
- Remove blade shaft nut, (Turn clockwise), & remove outside collar.
   NOTE: The Blade Shaft bolt uses a 19mm wrench
- 5. Clean off any foreign particles on the clamping surfaces of both collars and on the mounting surface of the blade.
- Place the blade on the blade shaft, lining up the drive pin hole in the blade with the drive pinhole in the inside collar. The C914P will only accept Diamond Blades with a Maximum Diameter of 14" (350mm) and a Bore of 1" (25.4mm) and a maximum core thickness of 1/8" (3.1mm) see Figure:

Blade Installation for details. NOTE: Maximum 14" (350mm) Blade can be used with the C914P, if the blade does not fit under the Blade Guard, then the diameter is greater than 14" (350mm). ALL Diamond Blades have a direction of rotation

indicated on the blade either, install the blade so that the direction of rotation is clockwise.



*For Best Performance Use Only Norton Diamond Blades for Specified for the Material Being Cut.* 







# OPERATION

- 7. Slide the outside blade shaft collar onto the blade shaft. The drive pin on the outside collar must project through the drive pin hole in the blade and into the inside collar.
- Tighten the blade shaft nut (counterclockwise) securely against the outside collar. See Figure: Blade Installed on C914P/C914PK for details.
- 9. Lower the Blade Guard, verify that the Blade Guard Locking Pin Aligns with the Slot in the Blade Guard Bayonet and Reattach the Blade Guard Locking Pin by pushing the Locking Pin Towards the Blade Guard See Figure: Locking the Blade Guard for details. NOTE: The Blade Guard Locking Pin is under spring tension and will automatically move towards the Blade Guard, if it does not immediately replace the Blade Guard Locking Pin before using the saw.





10. Reconnect the spark plug.

#### One Revolution (turn) of the Hand Wheel equals 1/4" (6.4mm) change of cut depth

#### **Pointer Alignment**

- 1. Use a straight edge, and carefully mark a line 12 feet long on a smooth level surface.
- 2. Place the saw blade on the marked line, move the saw to the center of the marked line andthen lower the blade until it is about 1/16" above the marked line
- 3. Measure from each end of the saw frame to ensure that the frame is parallel to the marked line. Adjust the saw as needed.
- 4. With the blade centered on the marked line and the saw frame parallel to the marked line, lower the front pointer.
- 5. Adjust the pointer by bending it until is aligned with the marked line.

### **Starting the Engine**

- 1. Refer to the engine owner's manual for detail starting procedures.
- 2. Always cut with engine rpm in the full throttle setting.



Before starting, ensure the blade is properly installed, all guards are in place and in safe operating condition, and the blade is not in contact withany surface or object. Also verify the area where the work is to be performed is clean, safe, and has proper ventilation and lighting. Always locate and properly mark all water, gas, and electrical services before beginning any work. Never transport any machine with the Blade installed.





To stop the engine, move the Throttle Control Lever fully to the Forward Position (Slow) right, then turn the engine switch to the OFF position. Turn the fuel valve to the OFF position



Never transport the machine with the Fuel Valve in the ON position. Never storethe machine with the Fuel Valve in the ON position. Never transport a machine with the blade installed.

#### Starting the Engine.

- 1. Level the Engine and Check the Engine Oil level as per the Engine Manual.
- 2. Raise the saw to the full upright position. Do not let the blade come in contact with the ground.
- 3. Maneuver the saw to the desired starting point.
- 4. If wet cutting, connect the water supply to the saw.
- 5. Follow the instructions for starting the engine found in the Engine manual.
- 6. If wet cutting, turn on the water supply at the source and then open the water valves on the saw. Make sure that there is a minimum of 4-6 gallons per minute of water flow!
- 7. Be sure the engine is running at full throttle!!!
- 8. Slowly lower the blade by rotating the hand wheel clockwise until the desired depth of cut is reached. Use a reasonable rate of feed. Do not force the blade into the cut!!
- 9. When the end of the cut is reached, slowly raise the blade out of the cut by rotating the Hand Wheel counterclockwise until the blade is at least one (1) inch above the ground.
- 10. Only move the saw in reverse with the blade in the raised position.
- 11. When moving the saw to a new location, be sure the blade is not touching the ground.
- 12. Always pay close attention to where you are moving and where the blade is at all times.

### Water Supply

#### **Pressurized source**

Turn the water control to full "ON" when using wet cutting blades.

Verify that the Quick Detach Fitting with Valve is connected to the <sup>3</sup>/<sub>4</sub>" Garden Hose connector. Pressurized Water Source such as a city water supply off of a building or external water tank with a water pump capable of providing 4 to 6 gallons (15.1 to 22.7 liters) of water per minute will provide the best dust control and cooling of the blade. Using a Pressurized Water source providing 4 to 6 gallons (15.1 to 22.7 liters) of water per minute meets all OSHA Silica control requirements.

#### Water Tank on saw

This supply is designed for use with dry blades to keep the dust levels down. The tank will not supply the proper water flow rates when used with wet cut only blades. Do not drink the water from this tank. Fill the tank with water only (Tank capacity: 6.5 US Gallons (24.6 liter). Close the water tank valve. Attach the saws water supply hose to the tank outlet. When you are ready to cut, adjust the water supply rate until a fine mist or a slow trickle is made. The use of water greatly decreases the amount of dust produced during the cutting process, aids in the cooling of the blade, and provides additional stability.





- Use Only Water in The Water Tank
- Do Not Drink from The Tank

#### Water Tank source:

The C914P/C914PK saws included Water Tank is designed to provide dust control for when sawing Pressurized Water source is not available. The Water Tank also increases the machine overall weight which assist at cutting at deeper depths.

It is preferred to use the Pressurized Water source as it will provide the required water flow rates over a longer time period than the Water Tank.

Please note that when using the Water Tank, it is recommended that the operator use an OSHA approved respirator to protect from Silica Dust.

- 1. Fill the Water Tank to the bottom of the filler neck with Water.
- 2. Replace the Water Tank Cap
- 3. Verify that the Quick Detach Fitting with Valve is Connected to the Water Tank Fittings
- 4. Follow ALL instructions under the Section "D. Operating the Saw"

5. Adjust the Quick Detach Fitting with Valve's water control valve so that enough water is covering the blade to reduce the water to your required level.

**NOTE:** The Operator and anyone around the machine MUST wear all required PPE including a respirator that meets OSHA Silica Control Requirements and follow ALL OSHA Silica Control Regulations.

#### Operating the Saw

- 1. For blade installation instructions see section: **Installing the Blade** on pages 11 and 12.
- 2. Check the Engine Oil level. See Engine Manual for details.
- 3. Raise the saw to the full upright position. Do not let the blade come in contact with the ground.
- 4. Maneuver the saw to the desired starting point.
- If wet cutting, connect the water supply to the saw.
   See section: Water Supply on pages 15 and 16 for details.
- 6. For the engine starting instructions, see the Engine manual and follow the instructions located in section: Starting the Engine on page 15.
- 7. If wet cutting, turn on the water supply at the source and then open the water valves on the saw. Make sure that there is a minimum of 4-6 gallons (15.1 to 22.7 liters) per minute of flow!! If using the water tank see section: Water Tank Source pages 15 and 16.
- 8. Be sure the engine is running at full throttle!!!
- 9. Slowly lower the blade by rotating the hand wheel clockwise until the desired depth of cut is reached. Use a reasonable rate of feed. Do not force the blade into the cut!! If resistance is felt STOP turning the hand wheel as the machine is at maximum depth, turning the hand wheel more can damage machine components.
- 10. When the end of the cut is reached, slowly raise the blade out of the cut by rotating the Hand Wheel counter-clockwise until blade is at least (1) inch above the ground.
- 11. Only move the saw in reverse with the blade in the raised position.
- 12. When moving the saw to a new location, be sure the blade is not touching the ground. Always pay close attention to where you are moving and where the blade is at all times.
- 13. Turn the machine OFF when finished cutting or if the machine is unattended. Never transport the machine with the engine running.

### **Cutting Technique**

Lower the blade into the concrete to the required depth by turning the hand wheel clockwise.

Reduce the forward pressure if the saw begins to stall.

**Note:** For deeper cuts (3" or more), several cuts should be made (Step Cutting). Incremental steps of 1-1/2 to 2" until the desired depth of cut is reached.

The C914P/C914PK has a 4-5/8" (117.5mm) with a 14" (355.6mm) blade many blades that are marketed as a 14" blade is 350mm (13-3/4") which will produce shallower cuts due to the overall diameter NOT being 14" (355.6mm). **NEVER** cut full depth in a single path as this will cause damage to any concrete saw blade, and damage drive belts. Burning of drive belts is due to cutting full depth and is not covered under warranty.

Push the saw steadily forward using the front pointer as a guide. Exert enough forward pressure so that the engine begins to labor but does not slow down. If the saw begins to stall, reduce the forward movement until full rpm is restored to the blade. If the saw stalls, raise the blade out of the cut before restarting. Avoid excessive side pressure or twisting of the blade in the cut.

#### Additional Guidelines for Sawing:

- Understand and follow all the instructions in this owner's manual.
- If wet cutting, turn on the water supply so that there is a minimum of 4-6 gallons per min. of flow.
- In critically hard aggregate, more than a single pass may be needed to cut the desired depth.
- If the saw stalls in the cut, immediately stop the forward speed, and raise the blade out of the cut. If this is not done the belts can fail or the blade may be damaged.
- Go slowly with a new blade until it opens up, that is, until the diamonds can be seen and felt.

### Honda Engine Oil Viscosity vs. Ambient Temperature. Honda Engines Only.

Always refer to the engine manual for more detailed information on air filters, checking/changing/filling oil, and fuel type to use. Use only Original OEM air filters.

Do not clean the air filter with gasoline or other flammable solvents. A fire or explosion could result.

To clean, follow the instructions found in the Honda manual.



# Kohler Engine Maintenance

(Refer to Kohler Engine Owner's Manual for complete maintenance.)

Maintenance Schedule
After first 5 Hours
Change engine oil.
Every 8 Hours
<ul> <li>Check oil bath air cleaner oil level in oil reservoir cup (if equipped).</li> </ul>
Every 50 Hours
<ul> <li>Change oil in 2:1 with Clutch Reduction System (CH245, CH255, CH270, CH395, CH440).</li> </ul>
Every 50 Hours <sup>1</sup>
<ul> <li>Service/replace oil bath air cleaner foam filter or foam elements (if equipped).</li> </ul>
Every 50 Hours or Annually (whichever comes first)
<ul> <li>Service/replace Quad-Clean, precleaner.</li> </ul>
Every 100 Hours or Annually <sup>1</sup> (whichever comes first)
Clean low-profile air cleaner element.
Change engine oil.
Clean cooling areas.
Every 200 Hours
<ul> <li>Replace Quad-Clean, air cleaner element.</li> </ul>
Every 300 Hours
Replace low-profile air cleaner element.
<ul> <li>Check fuel filters (tank outlet filter and in-line filter) and clean or replace if needed (if equipped)</li> </ul>
<ul> <li>Change oil in 6:1 Reduction System (CH245, CH255, CH270).</li> </ul>
Every 300 Hours <sup>2</sup>
<ul> <li>Check and adjust valve clearance when engine is cold.</li> </ul>
Every 500 Hours or Annually <sup>1</sup> (whichever comes first)
Replace spark plug and set gap.
Perform these procedures more frequently under severe, dusty, dirty conditions.
<sup>2</sup> Have a Kohler authorized dealer perform this service.

Check the engine oil level before each use when the engine is cool, and the engine is level. Add oil if the level is low. The oil level should be within the operating range (see the engine owner's manual fordetails).

Other high-quality detergent oils (including synthetic) of API (American Petroleum Institute) service class SJ or higher are acceptable. Select viscosity based on air temperature at time of operation asshown in table below.

#### Kohler Engine Oil viscosity vs. ambient Temperature. Dry Cutting Engine Maintenance

• When operating the engine in dry cutting or dusty environments the following is required:

• Engine oil changed more often.

• Every 50 hours (or more often if conditions require) clean all the engine cooling fins.

• Every 25 hours (or more often if conditions require) clean the engine precleaned.

• Every 100 hours (or more often if conditions require) replace the air filter. If the engine is equipped with a reusable air cleaner, clean and re-oil it.

• Check and clean the air filter after each use. Replace as needed.



#### B. Bearings

Bearings must be relubricated weekly to assure long life. The grease used should conform to the NLGI grade two and be free of any chemical impurities such as free acid or free alkali, dust, rust, metal particles or abrasives. DO NOT OVER GREASE the Bearings. Damage due to over greasing is not covered under any warranty.

For best results, bearings should be relubricated while in operation. *Note: Due caution for personalsafety must be observed when servicing rotating equipment.* The grease should be pumped in slowly until a slight bead form around the seals. This bead, in addition to acting as an indicator of adequate relubrication, provides additional protection against the entry of foreign matter. If necessaryto relubricate while the bearing is idle refer to relubrication table for maximum grease capacity for the various size bearings.

Shaft Size	Maximum Grease Capacity of Bearing
	Chamber in Ounces
1/2"' to 3/4"	1/8 US oz
7/8" to 1-3/16"	3/8 US oz (11.09 ml)
1-1/4" to 1-1/2"	5/8 US oz



Improper maintenance of bearings is not covered by any warranty. Over lubrication will damage a bearing. Grease protruding from the sides of the bearing is a sign of over lubrication.

Not lubricating bearings will damage the bearing unit. Damage caused by over or under lubricating bearings is not covered by any warranty.

#### V-Belts

#### Warning: Never adjust belts or pulleys while engine is running!

The best tension for a belt drive is the lowest tension at which the belts will not slip under full load.

#### Adjusting Belt Tension:

The C914P/C914PK saw uses dual tensioning bolt system for the belt tensioning. The Belt Tensioning is made by two (2) pusher Screws which can be found in front of the Engine see Figure: C914P Belt Tensioning System for details. The Belt Tensioning System is designed to push the engine from the center which helps to reduce the Engine from twisting during the belt tensioning process. This system is designed to be simple to use and to maintain with the tools equipped with the machine.



Ensure that the Engine Switch is in the OFF position and that the Spark Plug is disconnected before making any adjustment to the Belt tension.





Figure: C914P/C914PK Belt Tensioning System

Tools Required: 17mm Open End Wrench 17mm Socket and Socket Wrench

 Review the locations of the C914P/C914PK Belt Tensioning system before proceeding.
 Remove the Belt Guard by loosening and removing the two (2) M10 Acorn Nuts Belt Guard Retaining Hardware sets. Lift the Belt Guard off of the C914P/C914PK 3. Check belt tension by pushing up or down at the center top span of all three of the v-belts. The v-belts should move around 3/8" to ½" (9.5 to 12.7 mm) up and down. If adjustment is needed go to step 4. If no adjustment is required, replace belt guard, and tighten all of the Belt Guard Retaining Hardware.



- 4. Slightly loosen the four (4) M10 Engine Mounting Bolts with the M17 wrench. NOTE: The four (4) M10 Engine Mounting Bolts will need to remain snug during the belt tensioning process. Not keeping the M10 Engine Mounting Bolts snug may allow the engine to twist in the mounting slots which may result in the pulleys becoming miss-aligned.
- 5. Loosen the two (2) M10 Jam Nuts on the C914P/C914PK Belt Tensioning with Assembly with a M17 Wrench (See *Figure: C914P Belt Tensioning Hardware* below).



# MAINTENANCE

6. To apply tension (tighten) to the Blade Drive Belts tighten (turn clockwise) move both of the M10 Jam Nut way from the Tensioning Bracket and then rotate both of the M10 x 80 1.5 Hex Head Cap Screw DIN933 Clockwise the same number of turns until the required Belt Tension of 3/8" to ½" (9.5 to 12.7mm) is achieved. To loosen tension of the Blade Drive Belts, rotate both of the M10 x 80 1.5 Hex Head Cap Screw DIN933 the same number of turns then move the Engine until it is touching both of the M10 x 80 1.5 Hex Head Cap Screws and then rotate both of the M10 x 80 1.5 Hex Head Cap Screws Clockwise to the same number of turns until the required amount of Belt Tension of 3/8" to ½" (9.5 to 12.7 mm) is achieved. (See *Figure: C914P Belt Tensioning Jam Nut Direction*). NOTE: Do not over tighten the belts as too tight of belts can break Engine Output Shafts, Blade Shafts, Belts, and cause premature Bearing Failures. Failures due to too tight of Belts are not covered by any warranty. Too loose of Belts will cause the Belts to slip under load and may cause burning of the Belts and is not covered under warranty.



C914P Belt Tensioning Jam Nut Directions

7. Tighten the four (4) M10 Engine Mounting Bolts.

8. Replace the Belt Guard and replace and tighten the M10 Belt Guard Retaining Hardware.

Run the machine for around 15 minutes and recheck belt tension. If the Belts slip under load increase the belt tension.

#### Remember, too much tension shortens belt and bearing life!

Check the belt tension frequently during the first day of operation. Check the belt tension periodically thereafter and make any necessary adjustments.

#### Remember, too much tension shortens belt and bearing life!

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### To align the Pulleys:

- Review the locations of the C914P/C914PK Belt Tensioning system before proceeding. (See *Figure:C914P/C914PK Belt Tensioning System).*
- 2. Remove the Belt Guard by loosening and removing the two (2) M10 Belt Guard Retaining Bolts.
- 3. Line up a straight edge along the outside face of both pulleys. (See Figure: Pulley Alignment figure)
- 4. Misalignment will show up as a gap between the pulley face and the straight edge.
- 5. To correct the misalignment, move one pulley in or out as required.



## Figure: Pulley Alignment

### Main Causes of Belt Failures:

Premature Belt failure can be attributed to the following issues: Tension (too much or too little), Pulley Misalignment, Damaged Pulleys, Improper Handling or Storage, Incorrect Blade Specification forMaterial Being Cut, and Cutting Too Deep.

Symptom	Possible Cause	Corrective Action
Belt Breakage	Too Much Tension	Re-tension Belts
	Excessive Shock Load	Reduce Load/ Check Blade
		Specification
	Pulley Out of Round	Replace Pulley
Burning of Belt	Too Little Belt Tension	Increase Belt Tension
	Excessive Load (Cutting Full	For Best Performance Only
	Depth)	Cut only 1-/2" to 2" Per Pass
	Containments On Belts	Replace Belts and Find
CO CO		Source of Containments
	Incorrect Blade Specification	Replace Blade with One
		Designed for Material Being
		Cut
Belt Tearing/Ripping	Pulley Misalignment	Align Pulleys
Belt Rolling Off Pulley	Pulley Misalignment	Align Pulleys
Belt Cracking	Extremely Low Temperature	Warm Machine Before Use
	at Startup	
Belt Cracking	Exposure To Chemicals or	Locate Source of
	Lubricates	Containments and Replace
		Belts.



Belts are a normal wear item and are not covered under warranty.

#### Depth Control

The depth control (raising screw) consists of a threaded rod, which feeds into a steel nut. In order to keep the two parts working smoothly it is necessary to keep the rod free from dirt and sludge as much as possible. Cleaning threaded rod with a rag after each use will prevent sludge from collecting in the tube assembly and protect the threads. It is a good practice to keep the raising screw threads lubricated, as the slurry generated during cutting will cause premature thread wear. One (1) revolutions of the Raise Lower Handle will change the depth of cut by  $\frac{1}{4}$ " (6.4mm).

Periodic lubrication the Raise Screw with a good quality Lithium base grease will be required. To lubricate the assembly, apply grease to the Raise Tube Grease Port (Hole) located in the Raise Tube while rotating the Hand Wheel. Be sure to rotate the Handle Wheel throughout its full range

The bearing used to support the raising screw should be checked after each use to make sure it is turning freely and lubricated. If the bearing requires re lubrication lithium base grease is recommended. When rotating the Hand Wheel and resistance is felt STOP rotating, over rotation can create great forces which can damage the Raise Screw Bearing housing.



# **Inspections and Cleaning**

For long life and better machine performance follow the inspection and cleaning schedule below.

		After First Hour of Work	Beginning Of Day	During Blade Change	End Of Day	Once A Week	After Failure	After Damage
Whole Machine	Inspect For Damaged or X Missing Components Clean	0	X			Х	Х	X
			Х			Х		
Blade Collars	Clean			Х			2	
Belt Tension	Check	Х				Х	Х	X
	Clean		Х			Х		
Water Hose, Water	Inspect		Х			х		Х
Fittings, and Nozzles	Grease					x		
Depth Screw Engine	Clean					v		
Reachable Hardware	Tighten					v		
Bearings (Blade Shaft	Grease*							
and Depth Control)						X		
Wheels	Inspect	Х	Х					
Handlebar Anti Vibration	Inspect	х	х				X	X

\* = See Bearing Maintenance of This Manual Before Greasing



Replace any damaged or missing components before using machine.

# PARTS LIST SECTION

# PARTS BREAKDOWN

#### **Ordering Information**

Description	UPC	Part Number
Belt XPZ612 (3)	70184609009	238981
Wrench Multiple	70184609013	201212-002-3
NUT M14 2.0 DIN 934L Left Hand Thread (Blade Shaft Nut)	70184609012	238974
Collar Blade Kit C914P/C914PK (Inner and Outer Blade Collars)	70184609011	238990
Splash Guard Kit C914P/C914P	70184609020	238983
Water Tank Complete	310351798	232356
Wheel Front C914P/C914PK Kit (1)	70184609014	238991
Wheel 200x23x25mm (1) (Rear Wheel)	310005495	080991

NOTE: All Parts Are Sold as Individual (each) Unless Noted Otherwise

**Use Only Norton Clipper Diamond Blades.** Contact your local Norton Clipper Distributor or our Customer Service at 1-800-554-8003 for the best blade for the application.

All parts are designated as either Service Parts (S) or Wear Parts (W) in the Type column in the parts listing. Wear parts are worn out through normal use of the machine. The wear period depends on the intensity of use of the machine, handling, and maintenance of the machine. Wear parts must be serviced and eventually changed following the indications of the manufacturer. Any wear due to normal use of the machine will not be considered as a case of warranty for items designated as Wear Parts (W). For best performance and life Genuine Norton Clipper replacement parts should always be used. Changes to part specifications, are subject to change without notice.

NOTE: USE UPC number and description when ordering any service parts.



# Depth Control and Depth Lock Group

#	UPC	Part #	Description	QTY	Туре
	310004840	076357	HAND WHEEL AND HANDLE	1	S
2	310004966	076843	HANDWHEEL NUT + BRAKE WASHER	1	S
3	310004907	076670	BEARING SKF FYTB 20 TF	1	W
4	70184609004	238982	RAISE SCREW (LIFTING) C914P/CS352	1	S
5	70184609005	201903-048	RAISE TUBE C914P/CS352	1	S
6	70184643370	048620	SPACER 28x22x22	1	S



### Blade Guard and Water Control Group

#	UPC	Part #	Description	QTY	Туре
1	70184609019	201903-078-1	BLADE GUARD ASSY W/WATER CON C914P/CS352	1	S
2	310004233	072286	FIT HOSE Y	1	S
3	70184681299	082998	NOZZEL WATER (2) C/PC13	1	S
4	70184628501	238223	RING GUARD LOCK C20xx/C13xx/PC20xx	1	S
5	70184628498	238225	GUARD LOCK C20xx/C13xx/PC20xx	1	S
6	70184628499	238224	SPRING GUARD LOCK C20xx/C13xx/PC20xx	1	S
7	70184628500	238222	PIN GUARD LOCK C20xx/C13xx/PC20xx	1	S
8	70184609020	238983	SPLASH GUARD KIT C914P/CS352	1	W
9	-NA-	#N/A	SCREW M12 X 100 1.75	1	S
10	70184681616	27505	WASHER M12 DIN125 FLAT	2	S
11	70184609015	238992	HOSE BLADE GUARD KIT C914P/CS352	1	W
12	70184681604	27017	NUT LOCK M12 1.75 DIN985	1	S



# Blade Shaft & Engine Group

#	UPC	Part #	Description	QTY	Туре
1	70184608946	70184608946	ENG 8.5HP HONDA MANUAL GX270QC9	1	S
N/A	70184674562	227196	DEFLECTOR MUFFLER HONDA	1	W
N/A	70184608976	70184608976	SCR M4 X 6 SELF TAPING SHEET METAL	3	W
2	-NA-	#N/A	SCR M10 X 45 1.5 DIN 933	4	S
3	70184681610	27504	WASHER M10 DIN125 (PAK OF 100)	8	S
4	70184628215	239007	NUT M10 1.5 LOCK	4	S
5	70184609006	238989	PULLEY KIT ENG C914P/CS352	1	S
6	70184609009	238981	BELT XPZ612 (Set of 3)	1	W
7	70184609007	238995	PULLEY KIT BLADE SHAFT C914P/CS352	1	S
8	310004907	076670	BEARING SKF FYTB 20 TF	1	W
9	70184609010	201903-008	BLADE SHAFT C914P/CS352	1	S
10	70184643256	#N/A	SCR M10 x 80 1.5 HEX HEAD CAP	2	S
11	70184609011	238990	COLLAR BLADE KIT C914P/CS352	1	W
12	70184609012	238974	NUT M14 2.0 DIN 934L LEFT HAND THD HEX	1	W
N/A	70184681615	27006	NUT M10 1.5 DIN934 HEX	2	S

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# Main Frame and Pivoting Frame Group

#	UPC	Part #	Description	QTY	Туре
1	70184609097	70184609097	FRAME C914P/CS352	1	S
2	70184609013	201212-002-3	WRENCH MULTIPLE	1	S
3	70184603011	233938	SWITCH ENGINE ON/OFF HONDA GX390 - 2 Wire	1	S
			For Kohler Engines order 70184674394 + 70184631616	1	S
n/a	70184674102	227162	WHEEL 4X1-1/2X3/4 FRT (1)	2	S
4	70184609014	238991	WHEEL FRONT C914P/CS352 KIT (1)	1	W
5	70184609015	238992	HOSE BLADE GUARD KIT C914P	1	W
6	310024053	232121	GARDENA COUPLINGS C13	1	W
7	70184628020	238067	REDUCER FIT 3/4MGH x 1/2FMPT	1	S
8	70184643377	232354	BUSHING HEX 1/2MPT x 3/8 FPT	1	S
n/a	310005495	080991	WHEEL 8X1-1/4 REAR (1)	2	S
9	70184609016	238996	AXLE REAR COMPLT W/WHEELS C914P	1	S
10	70184643378	232355	NUT PIPE LOCK 3/8 BRASS	1	S
11	70184650637	121273	SWIVEL HOSE 3/8MPTX3/4GHT (2)	1	S
12	70184650620	101868	WASHER HOSE 1.00OD X .625	1	W
13	-NA-	201903-003	PIVOTING FRAME	1	S
14	70184609017	238993	WEAR RING 20X23X25 MM (SET OF TWO)	2	W
15	70184609018	238994	WEAR RING 20X23x30FLGx11.5L (SET OF TWO)	2	W
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# **Belt Guard Group**

-NA-

#	UPC	Part #	Description	QTY Type
1			GUARD BELT ASSEMBLY C914P/CS352	1 S
#		Part #	Description	
# 1	7018/67/303	227101	HANDI EBARS GRIPS	
2	-NA-	201903-042	HANDLEBARS ASSEMBLY	1 S



### Water Tank Group

#	UPC	Part #	Description	QTY	Туре
1	310351798	232356	WATER TANK COMPLETE CS451 CLIPPER	1	W
2	70184609015	238992	HOSE BLADE GUARD KIT C914P/CS352	1	W
3	310024053	232121	GARDENA COUPLINGS C13	1	W
4	70184628020	238067	REDUCER FIT 3/4MGH x 1/2FMPT	1	S
5	70184682454	083218	REDUCER NIPPLE 1/2MPT X 1/4MPT	1	S
6	70184602424	70184602424	ELBOW 1/4MPT x 1/4FPT x 45 BRASS	1	S



#	UPC	Part #	Description	QTY	Туре
Ор	erator's Right	Side			
1	70184674647	227241	DECAL WARNING REFUELING	1	W
2	-NA-	201903-090-1	DECAL NOSE STRIPE C914P/C914PK	1	W
3	-NA-	036058	DECAL BLADE GUARD EMEA	1	W
4	70184631637	233455	DECAL NORTON CLIPPER LOGO 8.93x4.79	1	W
5	70184674659	227264	DECAL BLADE FAILURE WARNING	1	W
6	-NA-	201903-093	DECAL MODEL C914P OPP RIGHT	1	W
7	70184673104	108934	DECAL PROPOSITION 65 WARNING	1	W

#### Decals

#	UPC	Part #	Description	QTY Type
Op	erator's Left S	lide		
8	-NA-	201903-094	DECAL MODEL C914P OPP RIGHT	1 W
9	70184674649	227243	DECAL DANGER LETHAL FUMES	1 W
10	70184674630	227235	DECAL CAUTION HOT SURFACE	1 W
11	70184674634	227239	DECAL CAUTION DISCONNECT	1 W
12	70184632228	233834	DECAL CLIPPER SMALL 4-1/8" x 2-1/2"	1 W
13	70184674632	227237	DECAL CAUTION GUARDS	1 W
14	70184674634	227239	DECAL CAUTION DISCONNECT	) 1 W
15	-NA-	201211-017-0	DECAL RISK OF CUTTING	1 W
16	-NA-	233462	DECAL BLADE ROTATION	1 W
Col	nsole			
17	70184632229	201203-129	DECAL PICTOGRAM	1 W
18	70184674481	227234	DECAL SAFETY GEAR CAUTION	1 W
19	-NA-	201211-010	DECAL STOP	1 W
20	-NA-	201211-016	DECAL LOWER	1 W
21	-NA-	201203-131	DECAL ARROW	2 W
22	-NA-	201211-015	DECAL RAISE	1 W
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