

## OWNER'S MANUAL

### SMALL PUSH WALK-BEHIND SAW

Model: C1318P | C1418P



Scan for a  
Digital Copy of the  
Owner's Manual

**CAUTION:** Read all safety and operating instructions before using this equipment.  
This manual **MUST** accompany the equipment at all times.

REDEFINING  
**JOBSITE MUSCLE™**

Norton Clipper warrants the C1318P and C1418P are warranted against defects in workmanship or materials for a period of one (1) year from the original purchase date from Norton Clipper when used in commercial, institutional, rental, or professional use..

To activate your warranty for all Norton Clipper products visit the **Product Registration** page on the website and register your machine.

The responsibility of Norton Clipper under this warranty is limited to replacement or repair of defective parts at a point designated by it, of such part as shall appear to us upon inspection at such point, to have been defective in material or workmanship, with expense for transportation borne by the customer.

In no event shall Norton Clipper be liable for consequential or incidental damages arising out of the failure of any product to operate properly.

Integral units such as **gasoline engines, electric motors, batteries, tires, 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.

**Important:** Before placing equipment in operation, record the following information:

UPC #: (starts with 701846-xxxxx)

MODEL #:

SERIAL #:

PURCHASE DATE:

PURCHASED FROM:

ADDRESS/CITY/STATE/ZIP:

Before using this equipment, make sure that the person using it has read and understands the instructions in this Owner's Manual.



**PRODUCT  
REGISTRATION**

Scan To  
Activate Your  
Warranty

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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.
	Keep all guards in place when operating any piece of equipment.
	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

 <p>Read operator's instructions.</p>	 <p>Read OSHA and ANSI B7.1. Visit the industry safety page: <a href="http://www.safety.UAMA.org">www.safety.UAMA.org</a></p>
 <p>Eye protection must be worn.</p>	 <p>Ear protection must be worn.</p>
 <p>Protect your lungs against dust.</p>	 <p>Hand protection must be worn.</p>
 <p>Rotation direction of the blade.</p>	  <p>Pump On      Pump Off</p>

## 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:**

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



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

108934

## Use Approved:



**Eye Protection**



**Hearing Protection**



**Respiratory  
Protection**



**Head Protection**

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 use 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.



**You Are Responsible For Your Safety!!!**

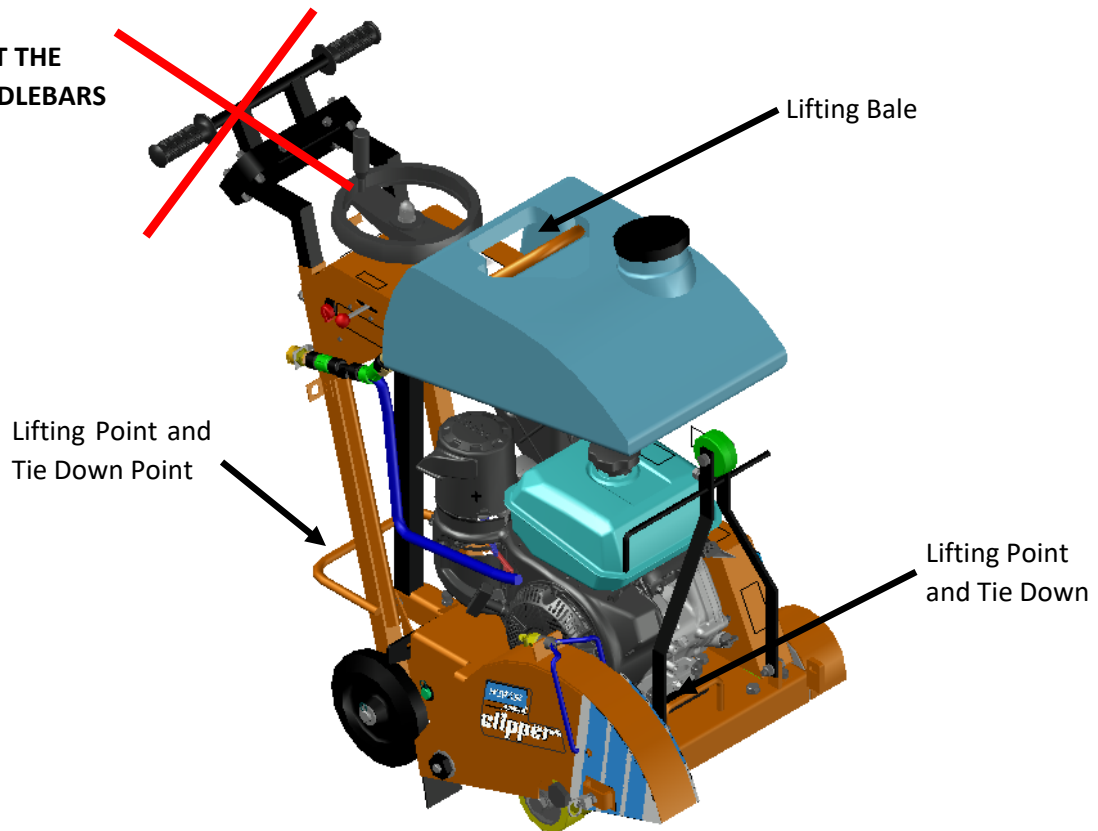


## Assembly

The C1318P and C1418P are the same machine being the engine brand the only exception. The C1318P uses a Honda GX390 13HP engine while the C1418P a Kohler 14HP CH440 engine.



**DO NOT LIFT THE  
SAW BY THE HANDLEBARS**



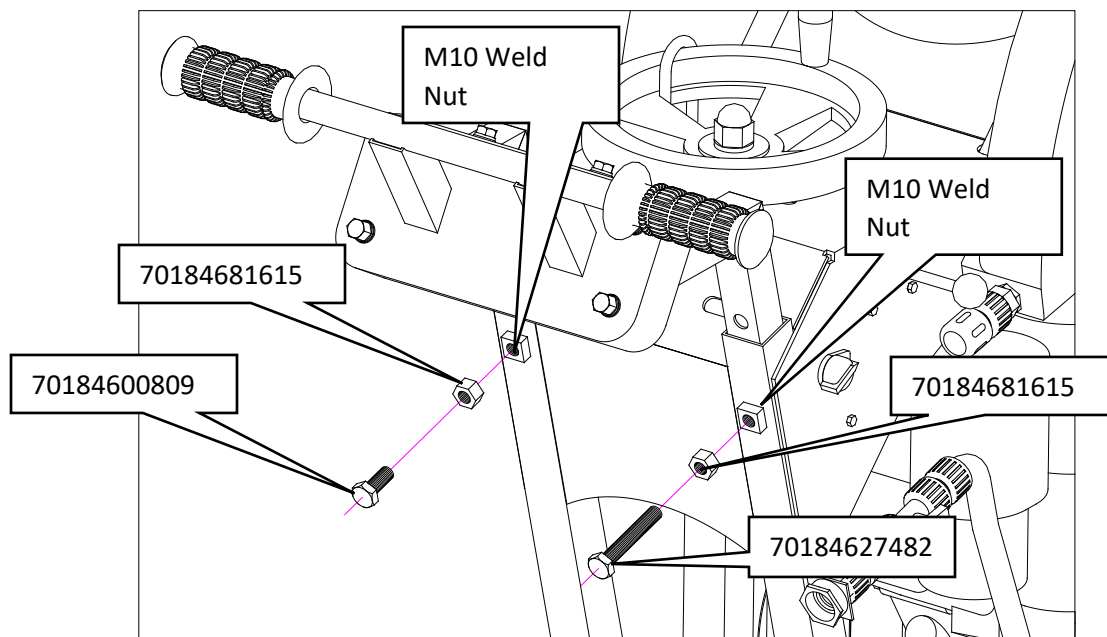
**DO NOT LIFT THE SAW BY THE HANDLEBARS**

The compact concrete saws are shipped completely assembled and ready for use except for diamond blade, gasoline, oil, handlebar installed, and blade shaft guard installed. 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.

Remove the saw from the pallet. Reverse the position of the handlebars so that the handlebar sticks out towards the operator. Adjust the handlebars to the desired height. Align the hole located in the operator's right side of the Handlebar Assembly with the M10 Weld Nut in the frame. Attach the handlebars to the saw with the supplied hardware. The Operator's Right Side Screw part# 028098 will pass through a hole in the Handlebar Assembly. Tighten 029098 to the Handlebar Assembly and then tighten the M10 Jam Nut 027006. Tighten 027021 to the Handlebar Assembly and then tighten the M10 Jam Nut 027006.



**DO NOT LIFT THE SAW FROM THE HANDLEBARS**

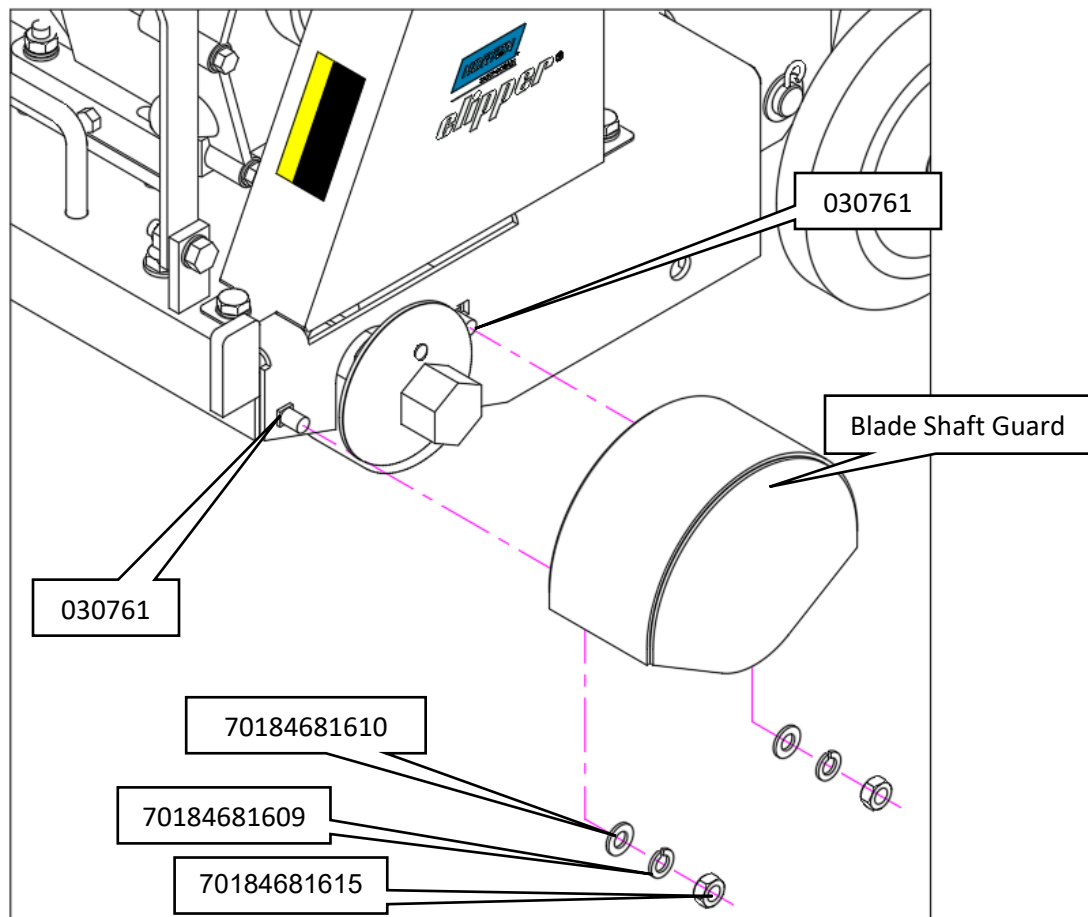


**Handlebar Installation**

## Handlebar Group

UPC	Part #	Description	QTY
70184600809	027021	SCR M10 X 25 8.8 DIN933	1
70184681615	027006	NUT M10 1.5 DIN934 HEX	2
70184627482	237242	SCREW M10 X 50 1.5 DIN933 HEX HEAD CAP FULL THREAD	1

Attach the Blade Shaft Cover to the Operator's Left Side of the machine with the supplied M10 Carriage Bolts and Nuts. The heads of the Carriage Bolts go inside of the frame. The Blade Shaft Guard and Blade Guard can be swapped from side to side. NEVER run two blades at the same time. Insure all hardware is fully secured before use. **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. Read and understand the remaining sections of this Owner's Manual.



Blade Shaft Guard Installation

## Blade Shaft Guard Group

UPC	Part #	Description	QTY
70184643375	232358	BLADE SHAFT GUARD ASSEMBLY	1
-NA-	030761	Includes: Blade Shaft Guard and all Hardware Listed Below	
		BOLT M10 1.5 x 25 CARRIAGE DIN 603	2
70184681610	027504	WASHER M10 FLAT DIN125	2
70184681609	027505	WASHER M10 LOCK DIN127	2
70184681615	027006	NUT M10 1.5 DIN934 HEX	2

Dimensions/Weight	C1318P	C1418P
Length (Working)	45.66" (1160 mm)	
Length (Transport)	33.50" (850 mm)	
Width	39.50" (1003 mm)	
Height	39" (990 mm)	
Weight	220 lbs. (100 kg)	
<b>Engine</b>		
Engine Mfg.	Honda	Kohler
Model	GX390	CH440
Manufacturers Spec No.	GX390K1QXC9	PA-CH440-3302
Engine Type	Single Cylinder 4 Cycle	Single Cylinder 4 Cycle
Horsepower - Gross	13 hp* (9.5kW) @ 3,600 rpm	14 hp* (10.4kW) @ 3,600 rpm
Max Torque – Gross	19.5 ft-lbs (26.5 Nm, 2.7 kg-m) @ 2,500 rpm	22.7 ft-lbs (30.8 Nm, 3.1 kg-m) @ 3,600 rpm
Cooling System	Air	Air
Oil Capacity	1.16 US qt (1.1 liter)	1.4 US qt (1.3 liter)
Fuel Capacity	1.79 US gal (6.5 liter)	1.75 US gal (7.0 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
<b>Characteristics</b>		
Max Blade	18" (450 mm)	18" (450 mm)
Depth of Cut 18" (406 mm)	6.75" (172 mm)	
16" (406 mm)	5.75" (146 mm)	
14" (356 mm)	4.75" (121 mm)	
12" (305 mm)	3.75" (95 mm)	
Arbor Bore	1" (25.4 mm)	
Blade Shaft Locking Device	Machined Into Flats of Tight Collar	
Blade Shaft Speed	2,573 rpm	
Depth Control	Hand Wheel With Screw Feed	
Depth Lock	Standard	
Depth Gauge	Customer Installed Accessory	
Number Of Belts	Single Ten (10) Groove K Section Belt	
Blade Guard Type	Hinged, All Steel Construction	
Right or Left Side Cutting	Yes	
Lifting Bale	Built-In	
Handlebars	Adjustable, Stays Level at All Times	
Water Tank	Standard	
Water Tank Capacity	6.5 US Gallons (24.6 liter)	
Water Hose Connector	Standard Garden Hose with Flow Control Valve	
Recessed Rear Wheels	Standard	
Sound pressure1	88 Db(A)	
Sound power1	105 Db(A)	
Vibration emission value	9.18 ft/ s² (2.8 m/s²) (according 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"

## Engine

*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 C1318P and 1.4 US qt (1.3 liter) for Kohler powered C1418P 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.
4. Engine Starting: Refer to the engine owner's manual additional proper engine starting procedure.

### D) 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 and then 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 it is aligned with the marked line.

## Operation

### Installing the Blade

1. Disconnect the spark plug.
2. Remove the blade shaft nut, (Turn clockwise), and remove the outside collar.
3. Clean off any foreign particles on the clamping surfaces of both collars and on the mounting surface of the blade.
4. Place the blade on the blade shaft, lining up the drive pin hole in the blade with the drive pin hole in the inside collar.



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

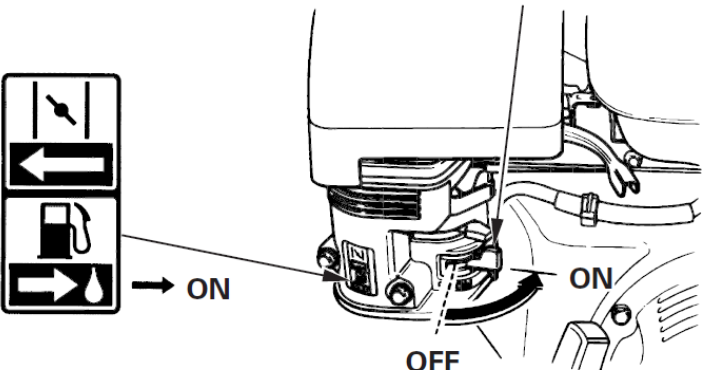
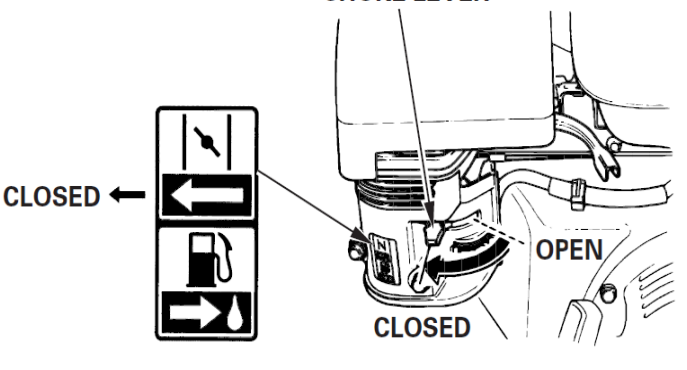
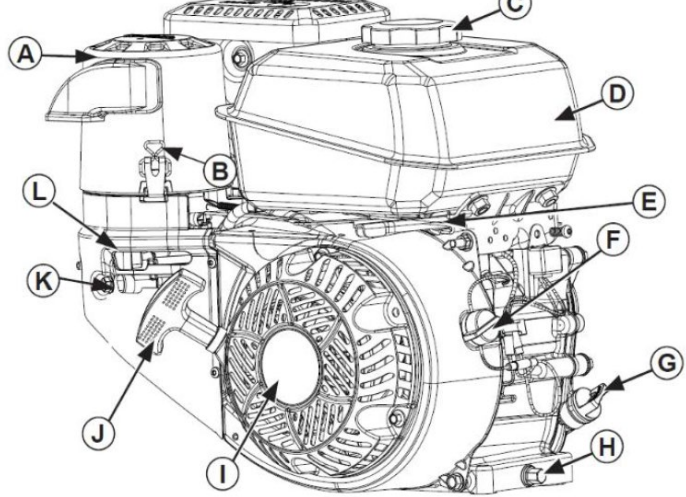
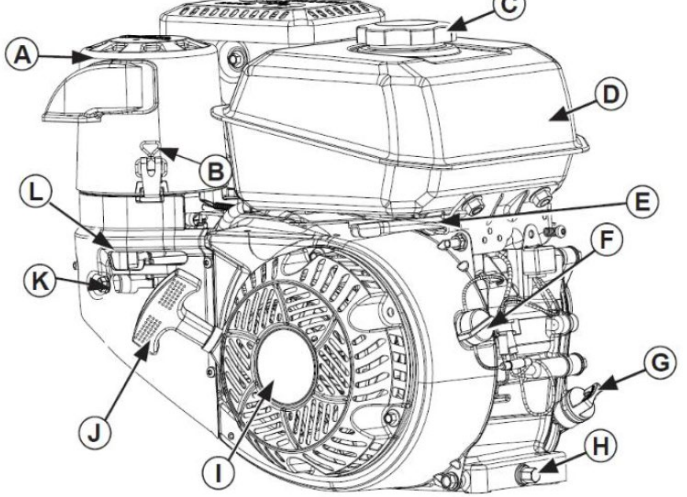
5. Slide the outside blade shaft collar onto the blade shaft. The drive pin on the outside collar must project through the drive pin hole in the blade and into the inside collar.
6. Tighten the blade shaft nut (counterclockwise) securely against the outside collar.
7. Reconnect the spark plug.

## 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.

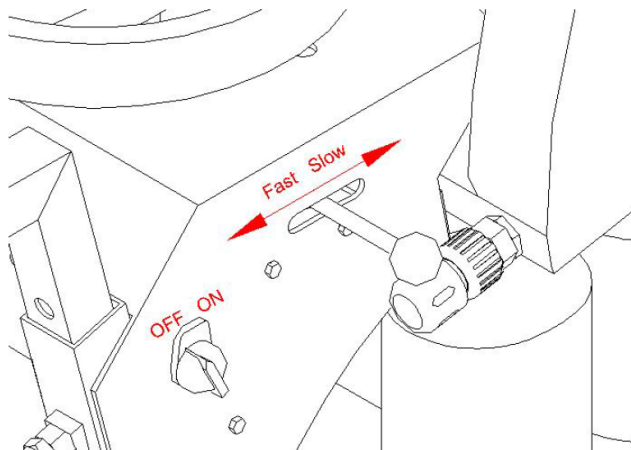


**Before starting, ensure the blade is properly installed, all guards are in place and in safe operating condition, and the blade is not in contact with any surface or object. Also verify the area where the work is to be performed is clean, safe, and has proper ventilation and lighting. Always locate and properly mark all water, gas, and electrical services before beginning any work.**

C1318P Honda Powered	C1318P Honda Powered
<p style="text-align: center;"><b>FUEL VALVE LEVER</b></p> 	<p style="text-align: center;"><b>CHOKE LEVER</b></p> 
C1418P Kohler Powered	C1418P Kohler Powered
 <p>Move the Fuel Control "K" to the ON Position</p>	 <p>Move the Choke Control "L" To the CLOSED Position NOTE: do not use the choke if the engine is warm or the air temperature is high.</p>



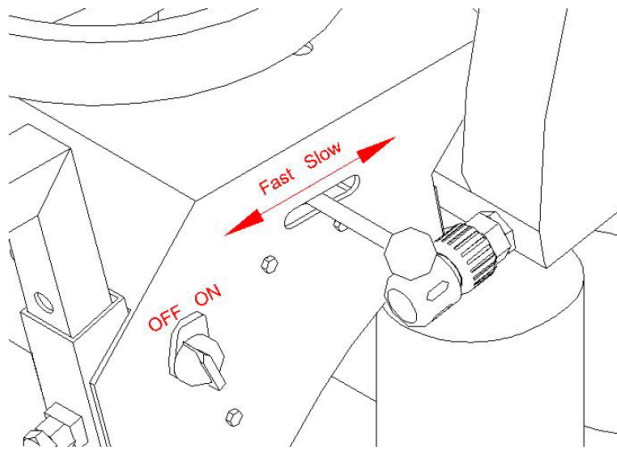
**Honda / Kohler Versions**



Pull The Throttle Control Slightly to the FAST side to provide some engine throttle.

**NOTE:** Honda & Kohler versions operate in opposite directions, Honda Show.

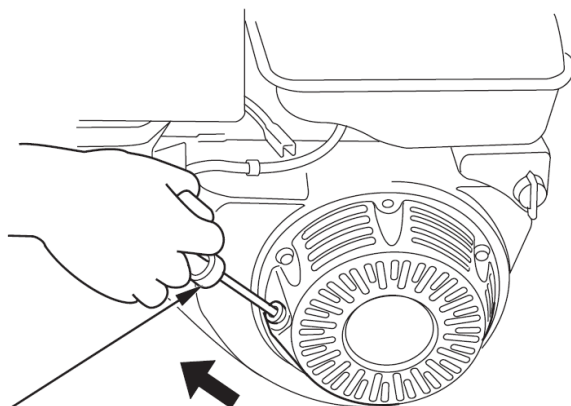
**Honda / Kohler Versions**



Place the engine ON/OFF switch to the ON position

**NOTE:** Honda & Kohler On/OFF Switches operate in opposition Directions, Honda Shown.

**Honda / Kohler Versions**

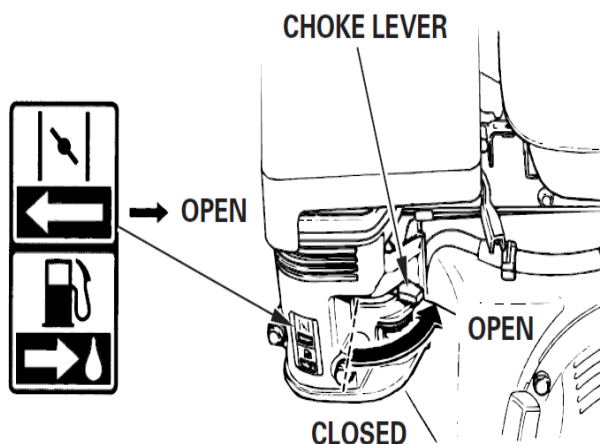


**STARTER GRIP** Direction to pull

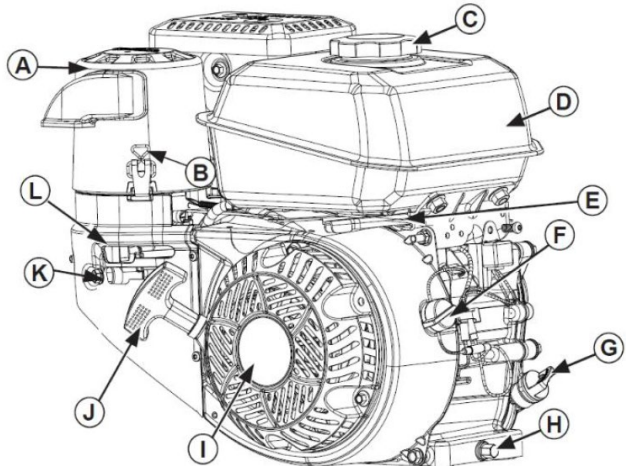
Pull the starter grip lightly until you feel resistance then pull briskly.

**CAUTION:** Do not allow the starter grip to snap back against the engine. Return gently to prevent damage to the starter.

**Honda / Kohler Versions**



As the engine warms up, gradually move the choke lever to the OPEN position. Position the throttle control lever for the maximum engine speed (full rear).

	<b>C1418P Kohler Powered</b>
	 <p>Move the Fuel Control "L" To the OPEN Position. As the engine warms up, gradually move the choke lever to the OPEN position. Position the throttle control lever for the maximum engine speed (full rear).</p>

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

### Starting the Engine.

1. Check the Engine Oil level.
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. 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. The required flow rate is 4-6 gallons per minute.

**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. Close the water tank valve. Attach the saws water supply hose to the tank outlet. Fill the tank with water. The capacity of the tank is 6.5 US Gallons (24.6 liter). 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

## Operating the Saw

For blade installation instructions see **Installing the Blade** page 11

For the engine starting instructions, see the Engine manual and follow the instructions located in section II. Operation subheading.

## 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 (4" or more), several cuts should be made.

Incremental steps of 1-1/2 to 2" until the desired depth of cut is reached.

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 Maintenance

Follow the below schedule for engine maintenance.

**NOTE:** Check the Engine manual that shipped with the engine for any changes to the maintenanceschedule. Or visit the engine manufacturer's web site for details.

If the charts have any differences, follow the chart in the Engine Manual.

Norton does not warranty the engine. If any warranty or service of the engine is required contact yournearest Engine Service Center, or from the Internet:

<http://www.honda-engines.com> (770-497-6400) or [www.kohlerpower.com](http://www.kohlerpower.com) (800-554-2444)

## MAINTENANCE SCHEDULE

REGULAR SERVICE PERIOD Perform at every indicated operating hour interval.		EACH USE	FIRST 20HRS	EVERY 50HRS	EVERY 100HRS	EVERY 300HRS	Refer to page
ITEM							
Engine oil	Check level	○					3-2
	Change		○		○		
Reduction gear oil	Check level	○					3-2
	Change		○			○	
Air cleaner	Check	○					3-3
	Clean			○ (1)			
Fuel strainer cup	Clean				○		3-7
Spark plug	Check-Clean				○		3-6
Valve clearance	Check-Adjust					○	3-5
Combustion chamber and valves	Clean-Lap					○	9-3,4
Fuel line	Check (Replace if necessary)	Every 2 years					3-8

NOTE: (1) Service more frequently when used in dusty areas.

C1318P Honda engine (refer to Honda Engine Owner's Manual for complete maintenance.)

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

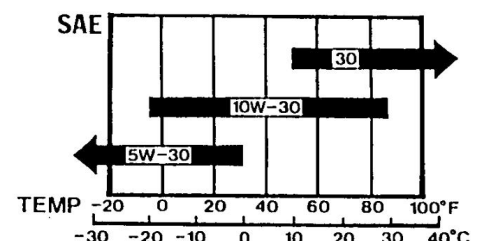
Only use a high-detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for Service Classification SG, SF/CC, CD. Motor oils will show the classification on the container. A SAE viscosity of 10W-30 is recommended by Honda for general, alltemperature use. Please consult the below chart or contact your local Honda service center for theproper viscosity for your temperature range.

## 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	<ul style="list-style-type: none"> <li>• Change engine oil.</li> </ul>
Every 8 Hours	<ul style="list-style-type: none"> <li>• Check oil bath air cleaner oil level in oil reservoir cup (if equipped).</li> </ul>
Every 50 Hours	<ul style="list-style-type: none"> <li>• Change oil in 2:1 with Clutch Reduction System (CH245, CH255, CH270, CH395, CH440).</li> </ul>
Every 50 Hours <sup>1</sup>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>• Service/replace Quad-Clean<sup>™</sup> precleaner.</li> </ul>
Every 100 Hours or Annually <sup>1</sup> (whichever comes first)	<ul style="list-style-type: none"> <li>• Clean low-profile air cleaner element.</li> <li>• Change engine oil.</li> <li>• Clean cooling areas.</li> </ul>
Every 200 Hours	<ul style="list-style-type: none"> <li>• Replace Quad-Clean<sup>™</sup> air cleaner element.</li> </ul>
Every 300 Hours	<ul style="list-style-type: none"> <li>• Replace low-profile air cleaner element.</li> <li>• Check fuel filters (tank outlet filter and in-line filter) and clean or replace if needed (if equipped).</li> <li>• Change oil in 6:1 Reduction System (CH245, CH255, CH270).</li> </ul>
Every 300 Hours <sup>2</sup>	<ul style="list-style-type: none"> <li>• Check and adjust valve clearance when engine is cold.</li> </ul>
Every 500 Hours or Annually <sup>1</sup> (whichever comes first)	<ul style="list-style-type: none"> <li>• Replace spark plug and set gap.</li> </ul>
<sup>1</sup> 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 for details).

Kohler recommends the use of Kohler oils for the best performance (contact your local Kohler Dealer to purchase or for additional information: Phone: 1-800-456-4537 web:

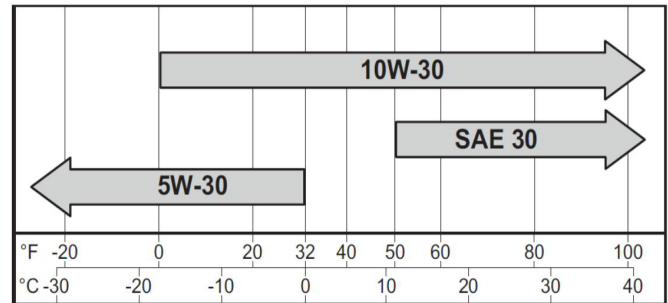
<https://kohlerpower.com/en/engines/dealers>)

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 as shown 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.

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 necessary to 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
7/8" to 1-3/16"	3/8
1-1/4" to 1-1/2"	5/8



**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!**

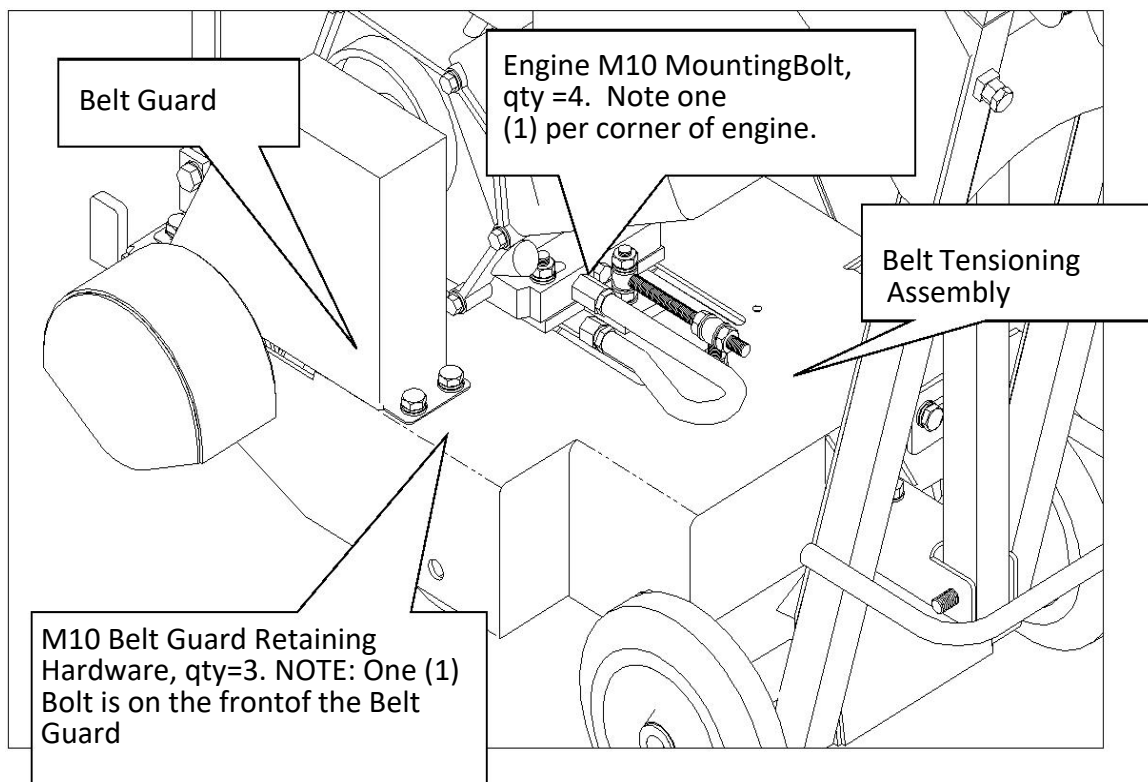
The best tension for a belt drive is the lowest tension at which the belts will not slip under full load.

### Adjusting the C1318P/C1418P Belt Tension:

The C1318P/C1418P use a simple single point tensioning system for the belt tensioning. The Belt Tensioning Assembly can be found behind the engine and is located in the center of the Frame. The Belt Tensioning Device is designed to pull or push the engine from the center which helps to reduce the Engine from twisting during the Belt Tensioning process. This new system is designed to be simple to install and to maintain with the tools equipped with the machine.



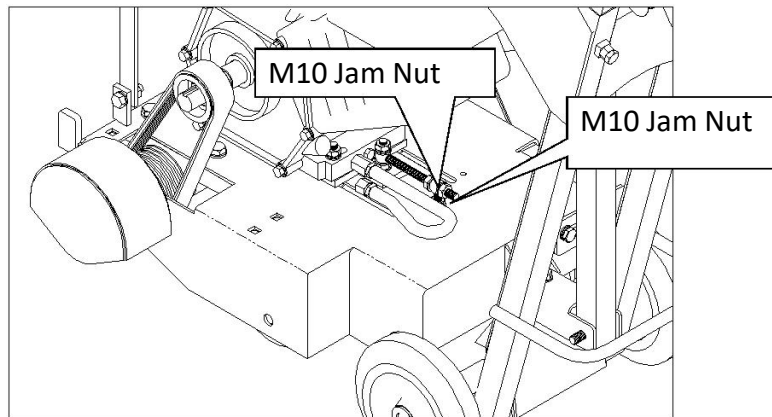
**Ensure that the Engine Switch is in the OFF position and that the Spark Plug is disconnected before making any adjustment to the Belt tension.**



**Figure: C1318P/C1418P Belt Tensioning System**

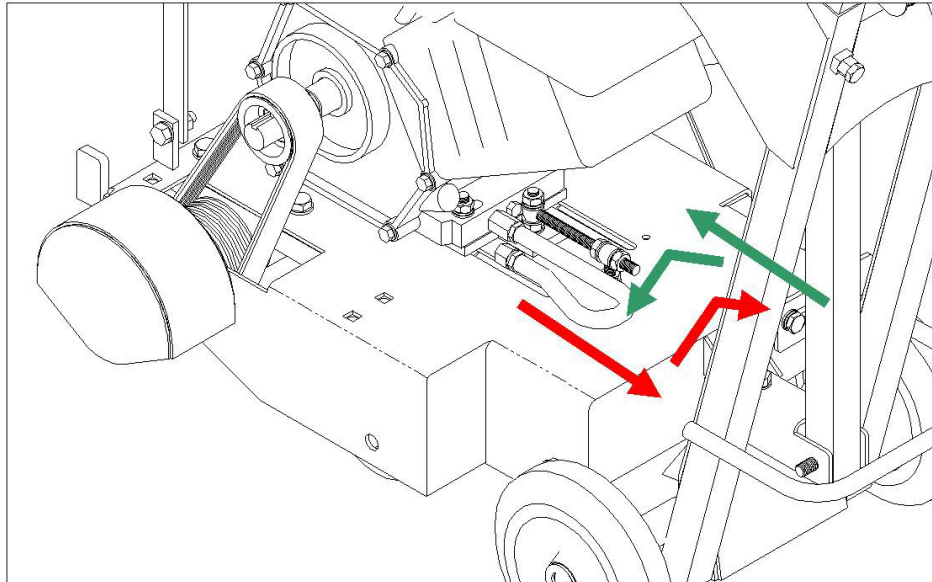


1. Review the locations of the C1318P Belt Tensioning system before proceeding. (See Figure:C1318P/C1418P Belt Tensioning System on the previous page).
2. Remove the Belt Guard by loosening & removing the three M10 Belt guard retaining bolts.
3. Check belt tension by pushing up or down at the center top span of the belt. The belt should move around 3/8" to 1/2" up and down. If adjustment is needed go to step 4. If no adjustment is required, replace belt guard, and tighten all of the M10 Belt Guard Retaining Hardware.
4. Slightly loosen the four (4) M10 Engine Mounting Bolts. NOTE: The four 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 missed aligned.
5. Loosen the two (2) M10 Jam Nuts on the C1318P Belt Tensioning Assembly (See **Figure:C1318P/C1418P Belt Tensioning Assembly below**).



**Figure: C1318P/C1418P Belt Tensioning Assembly**

6. To apply tension to the Belts, tighten (turn clockwise) the rear M10 Jam Nut until the required Belt Tension is achieved. To loosen the Belts, turn the front M10 Jam Nut counterclockwise until the required Belt Tension is achieved. (See **Figure: C1318P/C1418P Belt Tensioning Jam Nut Directions**). 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 any warranty.



**Figure: C1318P/C1418P Belt Tensioning Jam Nut Directions**

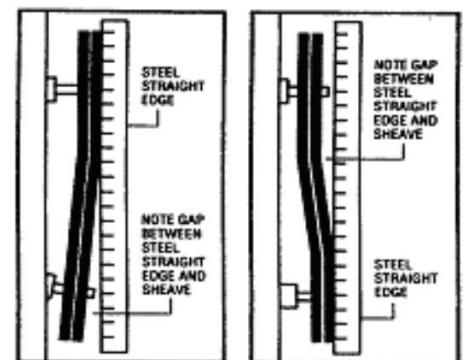
7. Tighten the four (4) M10 Engine Mounting Bolts.
8. Replace the Belt Guard and replace and tighten the M10 Belt Guard Retaining Hardware.
9. Run the machine for around 15 minutes and recheck the belt tension. If the Belts slip underload increase the belt tension.

**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.

**To align the Pulleys:**

1. Review the locations of the C1318P/C1418P Belt Tensioning system before proceeding. (See **Figure: C1318P/C1418P Belt Tensioning System** on page 15).
2. Remove the Belt Guard by loosening and removing the three M10 Belt Guard Retaining Bolts.



**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 for Material 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 Depth)	For Best Performance Only Cut only 1-1/2" to 2" Per Pass
	Containments On Belts	Replace Belts and Find 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 at Startup	Warm Machine Before Use
Belt Cracking	Exposure To Chemicals or Lubricates	Locate Source of Containments and Replace Belts.



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



## B. 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 the 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. 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.

## C. Inspections and Cleaning

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

Regular Service Period Performed At Every Indicated Period →		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 Missing Components	X	X			X	X	X
	Clean		X			X		
Blade Collars	Clean			X				
Belt Tension	Check	X				X	X	X
Water Hose, Water Fittings, and Nozzles	Clean		X			X		
	Inspect		X			X		X
Depth Screw	Grease					X		
Engine	Clean					X		
Reachable Hardware	Tighten					X		
Bearings (Blade Shaft and Depth Control)	Grease*					X		
Wheels	Inspect	X	X			X		
Handlebar Vibration Reduction System	Inspect	X	X			X	X	X

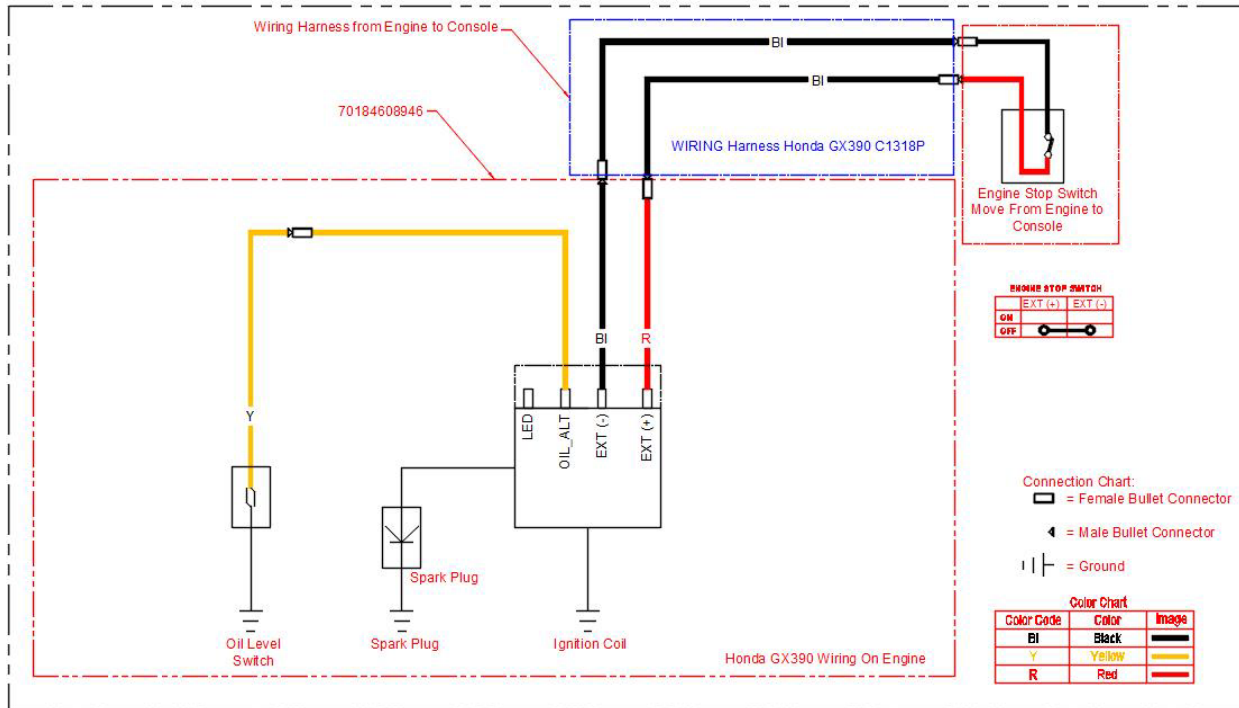
\* = See Bearing Maintenance of This Manual Before Greasing



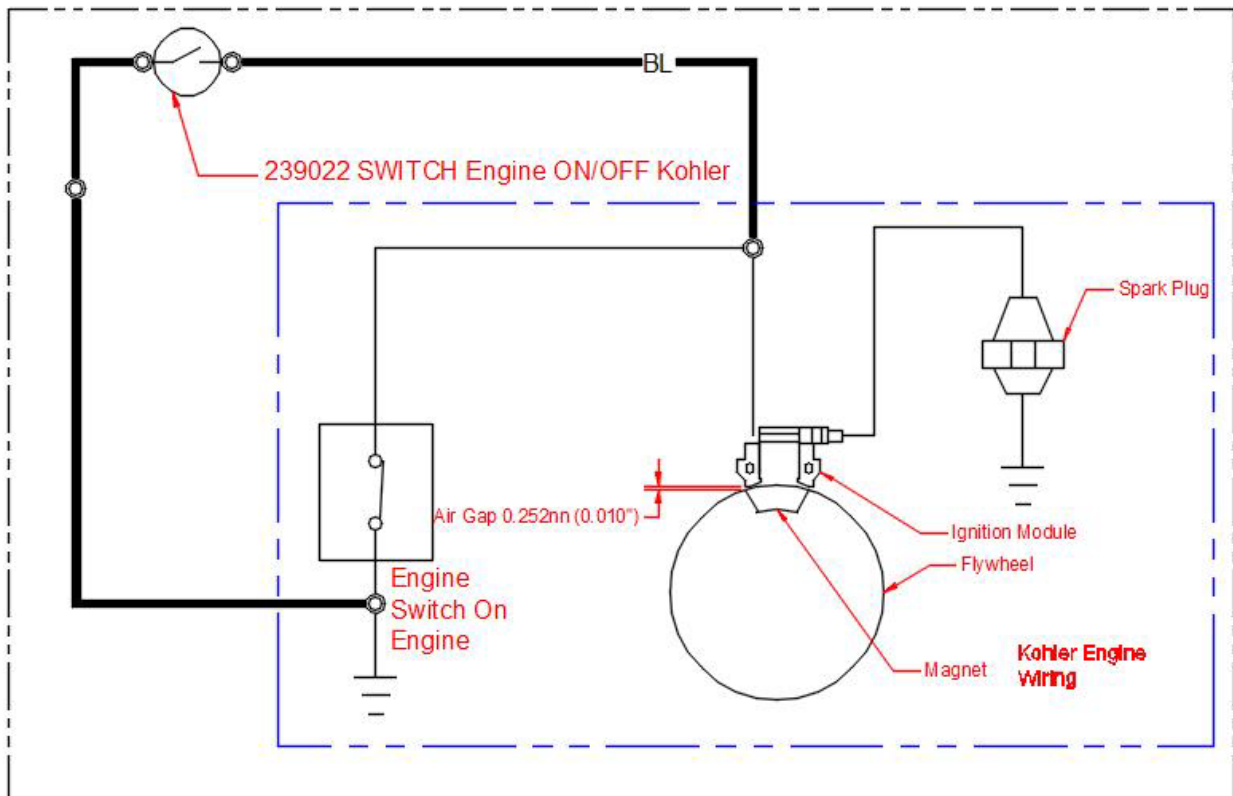
**Replace any damaged or missing components before using machine.**

## Wiring Diagram C1318P and C1418P

Verify Model as wiring is different for Honda and Kohler Engines



**C1318P with 13HP GX390 Honda Only**



**C1418P with 14HP CH440 Kohler Only**

## PARTS LIST SECTION

### Ordering Information

1. List model number and serial number of machines from the Machine's Serial Number Plate.
2. List part number, UPC number, and Description of part DO NOT use the item number.
3. Wherever alternate parts are shown due to product improvement, inspect the part you have and provide additional description as necessary.
4. Specify mode of shipping desired, such as, parcel post, truck, U.P.S., best way, etc.

Contact Customer Service:

Saint-Gobain Abrasives  
2770 West Washington  
Stephenville, TX 76401

Phone: 800-554-8003

Fax: 254-918-2312

### Common Replacement Parts

Description	UPC	Part Number
BELT Poly-V 10 PK 698MM	70184643371	232344
Blade Shaft Nut ¾-16 Left Hand Thread (Operators Right Side Of Saw)	70184673903	227156
Blade Shaft Nut ¾-16 Right Hand Thread (Operators Left Side Of Saw)	70184674346	227191
Collar Tight (Operators Right Side)	70184673904	227159
Collar Tight (Operators Left Side)	70184674352	227190
Collar Loose Assembly (With Pin)	70184674082	227247
Drive Pin Ø3/8 x 1	70184674556	227154
Water Tank Complete C1318P/C1418P	00310351798	232356
Bearing Blade Shaft W/Hardware (2)	00310004295	72474
Front Wheel Complete W/Hardware (1)	00310006552	82786
Rear Wheel (1)	00310005495	80991
Wrench 1-1/2"	70184649317	105377
Wrench 32mm	70184681049	82910
Wrench 17mm	70184655806	72279

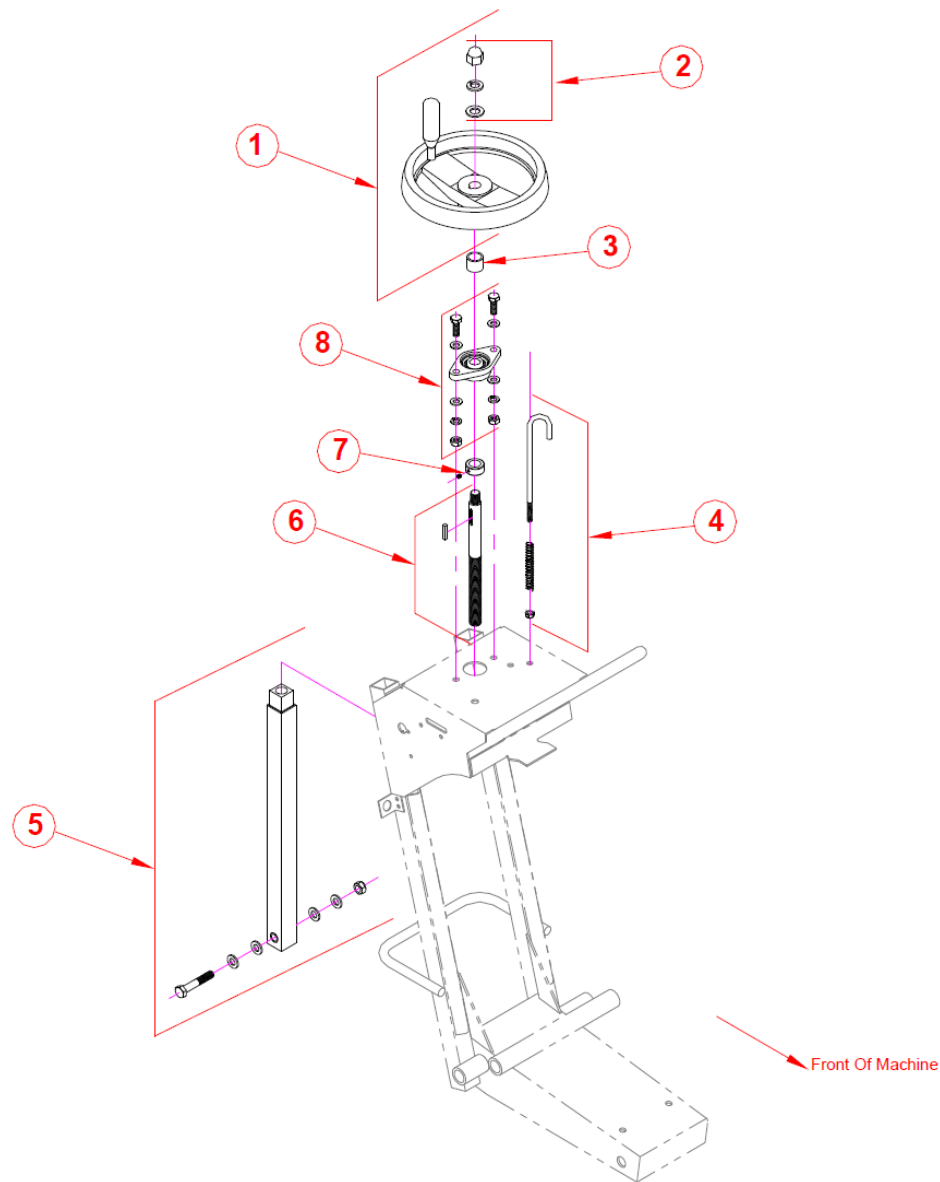
**NOTE:** All Parts Are Sold as Individual (each) Unless Noted Otherwise

**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.

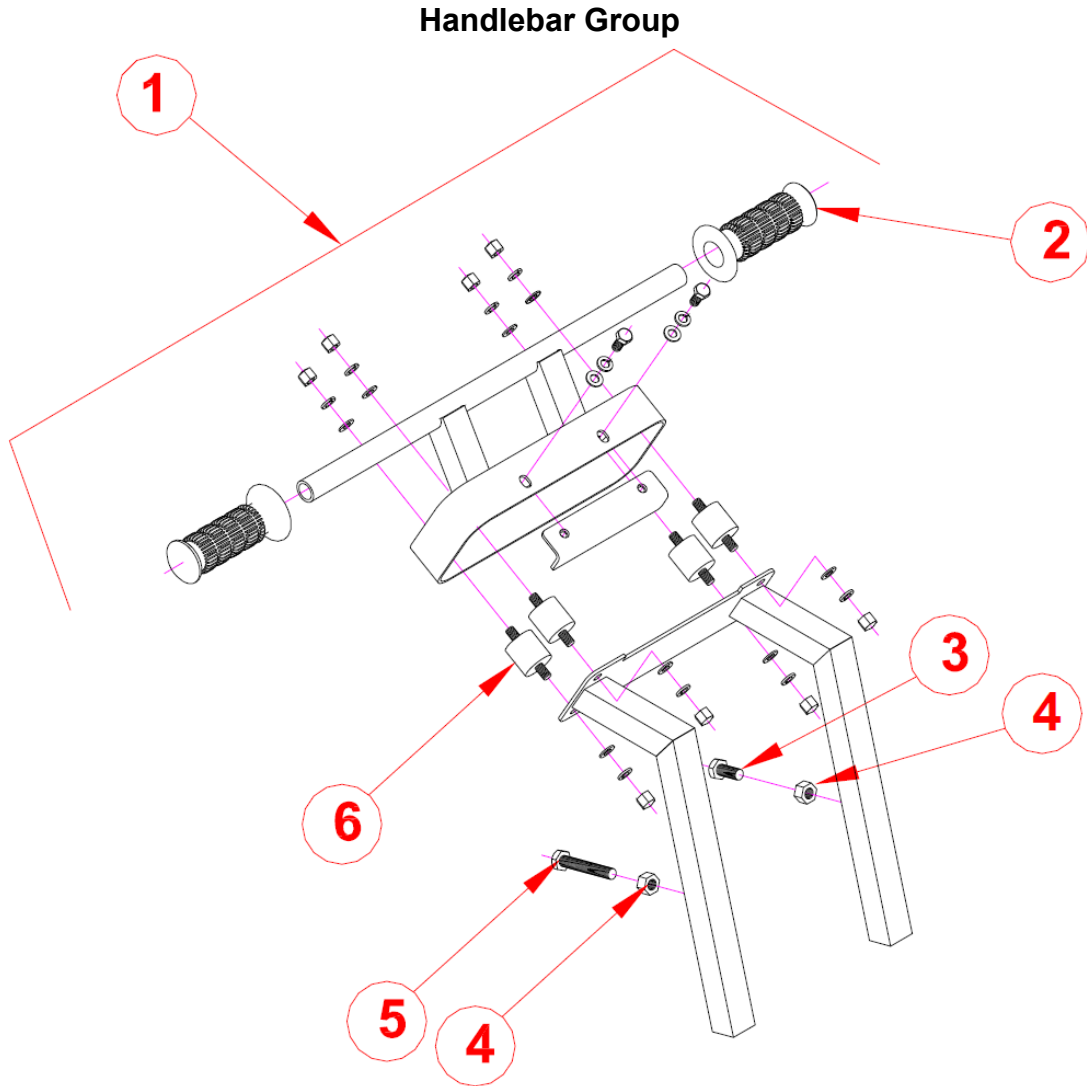
### Depth Control and Depth Lock Group



### Depth Control and Depth Lock Group

#	UPC	Part #	Description	QTY	Type
1	310004840	076357	HAND WHEEL AND HANDLE	1	S
2	310004966	076843	HANDWHEEL NUT + BRAKE WASHER	1	S
3	70184643370	048620	SPACER 28x22x22	1	S
4	310327609	232349	WHEEL HOOK + SPRING CS 501	1	S
5	310006553	082787	TUBE DEPTH CTRL w/Hardware	1	S
6	310006554	082788	RAISE-LOWER SCREW+KEY C99 CS451	1	S
7	310006555	082789	RING STOP DEPTH CONTROL	1	S
8	310004907	076670	BEARING SKF FYTB 20 TF	1	W

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.



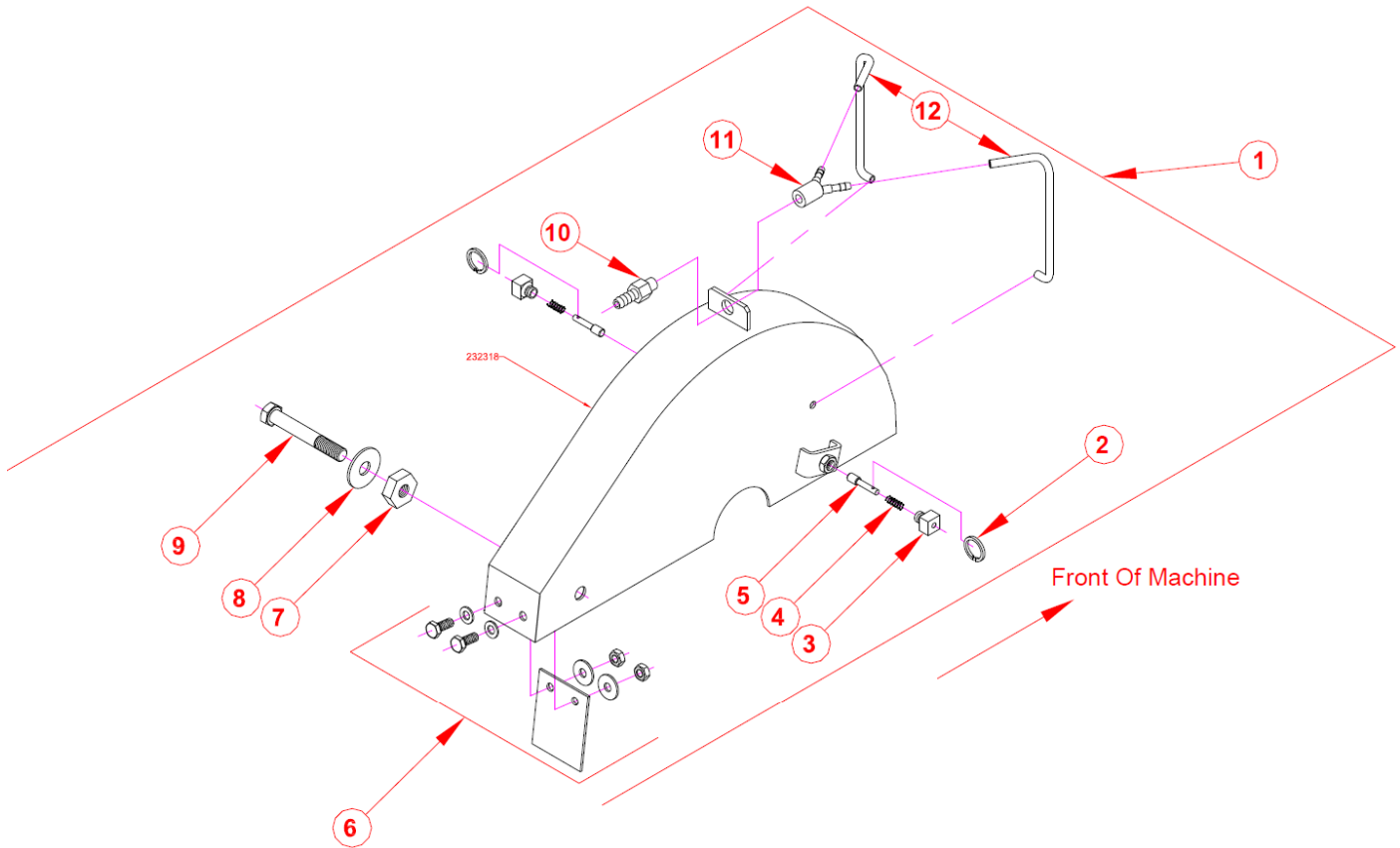
## Handlebar Group

#	UPC	Part #	Description	QTY	Type
1	70184643284	232313	HANDLEBAR ASSEMBLY C1318P	1	S
2	310004190	072097	GRIP HANDLE 157/207/547	2	S
3	70184600809	27021	SCR M10 X 25 8.8 DIN933	1	S
4	70184681615	27006	NUT M10 1.5 DIN934 HEX	2	S
5	70184627482	237242	SCREW M10 X 50 1.5 DIN933 HEX HEAD CAP FULL THREAD	1	S
6	310353381	232350	VIBRATION ABSORBER (KIT OF 4)	1	W

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.

**NOTE:** In order for the Vibration Reduction System to function properly the Acorn Nuts towards the operator are torque to 0.27 lb-feet (4Nm). The Acorn Nuts on the bottom of the handlebars are fully tightened. Over tightening of the Operator Size Acorn Nuts will prevent the Vibration Reduction System from functioning

### Blade Guard Group

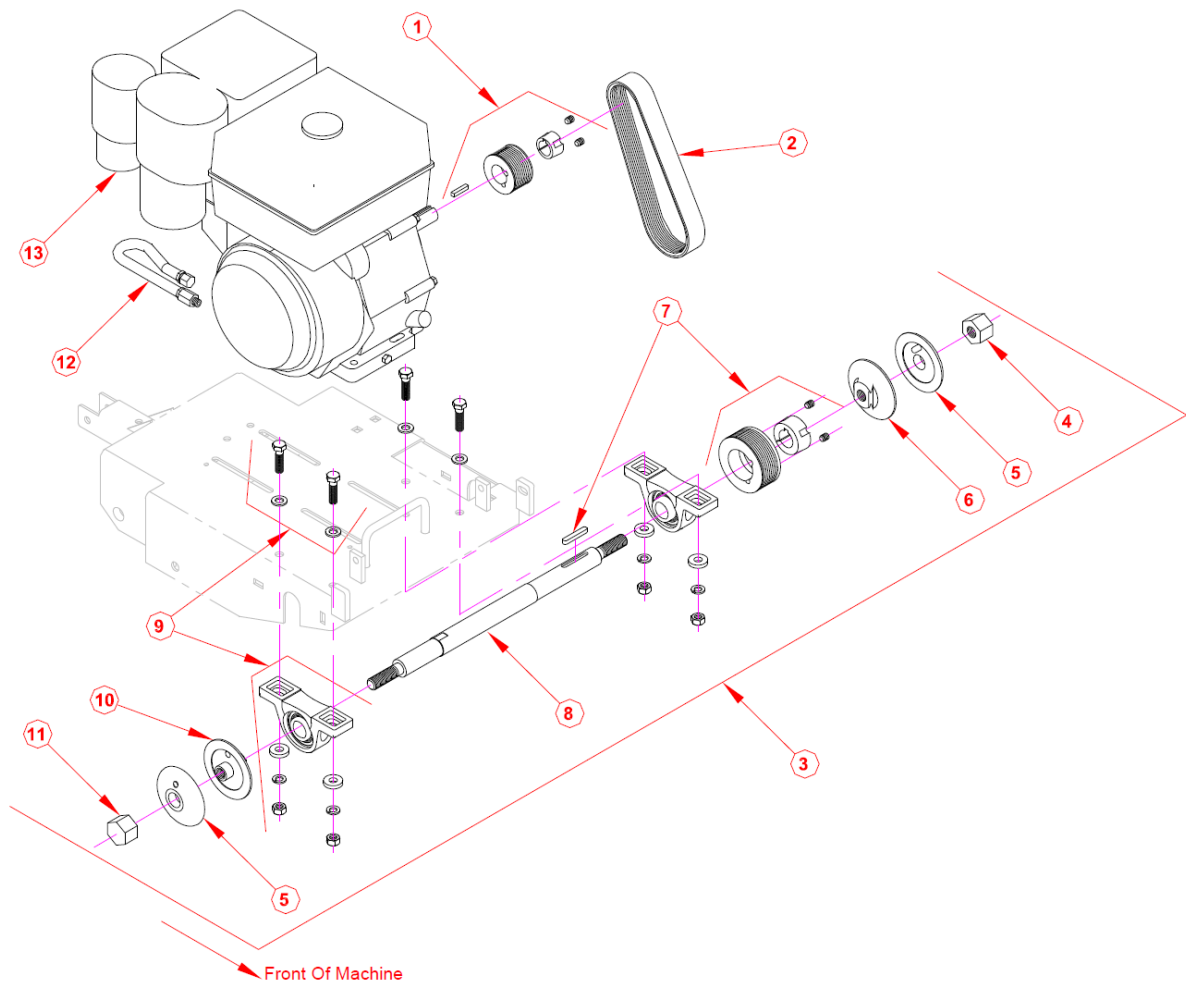


### Blade Guard Group

#	UPC	Part #	Description	QTY	Type
1	70184643285	232317	BLADE GUARD ASSEMBLY C1318P	1	S
2	70184628500	238222	SCR M10 x 45 1.5 DIN 933 Hex Head Cap	2	S
3	70184628501	238223	RING GUARD LOCK	2	S
4	70184628499	238224	NUT M10 1.5 LOCK	2	W
5	70184628498	238225	GUARD LOCK	2	S
6	310006566	247305	BLADE SPLASH GUARD	1	W
7	310007020	083366	NUT HEX M16 X 38MM	1	S
8	70184643255	232351	WASHER M16 FENDER DIN9021	1	S
9	310007021	083367	BOLT BLADE GUARD	1	S
10	70184650465	9600014	SCR M10 x 80 1.5 HEX HEAD CAP	1	S
11	310004233	072286	FIT HOSE Y	1	W
12	70184681299	082998	WATER NOZZEL (2) C1318P/C1418P	1	W

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.

### Blade Shaft Group



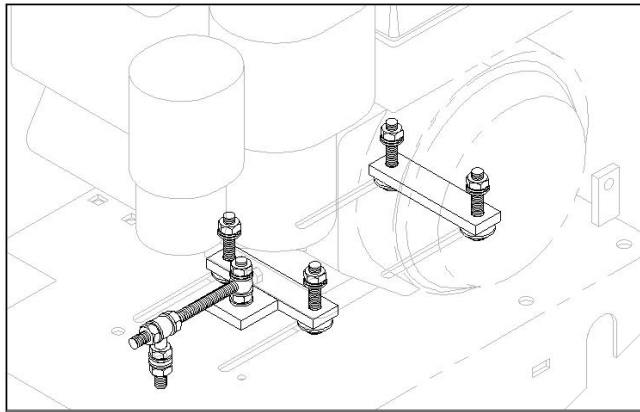
### Blade Shaft Group

#	UPC	Part #	Description	QTY	Type
1	70184643291	232352	PULLEY ENGINE KIT C1318P/C1418P	1	S
2	70184643371	232344	BELT POLY-V 10PK 698MM (1) SOLD AS EACH	1	W
3	70184643372	232357	BLADE SHAFT ASSEMBLY C1318P	1	S
4	70184674346	227191	NUT BLADE SHAFT 3/4-16 RH	1	S
5	70184674082	227247	ASSY OUTER FLANGE (LOOSE)	2	S
	70184674556	227154	PIN DRIVE (GROOVED) 3/8X1	2	W
6	70184674352	227190	COLLAR TIGHT LEFT SIDE RH	1	S
7	70184643373	232353	PULLEY BLADE SHAFT KIT C1318P	1	S
8	310007070	083421	BLADE SHAFT C13/C1318P	1	W
9	310004295	072474	BEARING BORE 30MM SY30TF SET of 2 pc	2	W
10	70184673904	227159	COLLAR TIGHT C88-C139	1	S
11	70184673903	227156	NUT BLADE SHAFT 3/4-16 LH	1	S
12	70184628179	238057	OIL DRAIN HOSE ASSY 13HP HONDA	1	S
13	70184671620	123327	ENG 13HP HONDA MANUAL GX390UT2QXC9	1	S
13*	-NA-	247807	ENG 14HP KOHLER CH440-3302	1	S
*	70184676096	123328	AIR FILTER HONDA 11-13HP	1	W
*	17 083 03-S	#N/A	AIR FILTER KOHLER 14HP - <b>SOLD BY KOHLER</b>	1	W

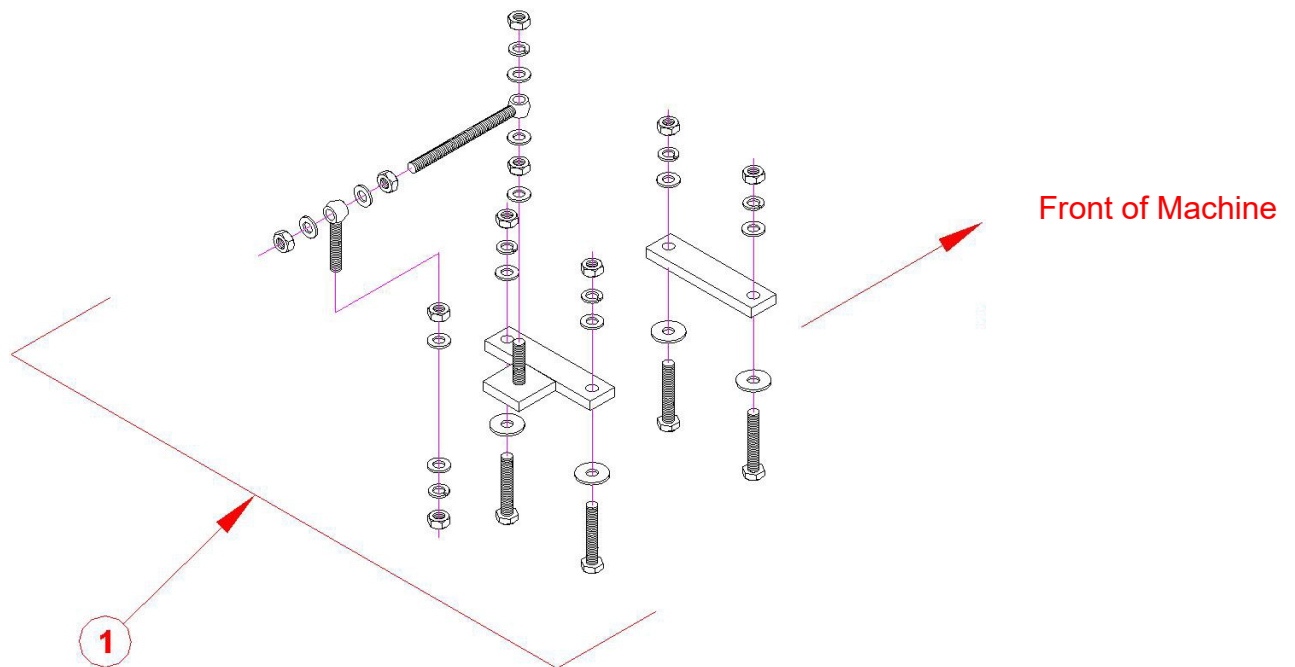
Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.



### Belt Tensioning Group



232330 Components Assembled to C1318P/C1418P



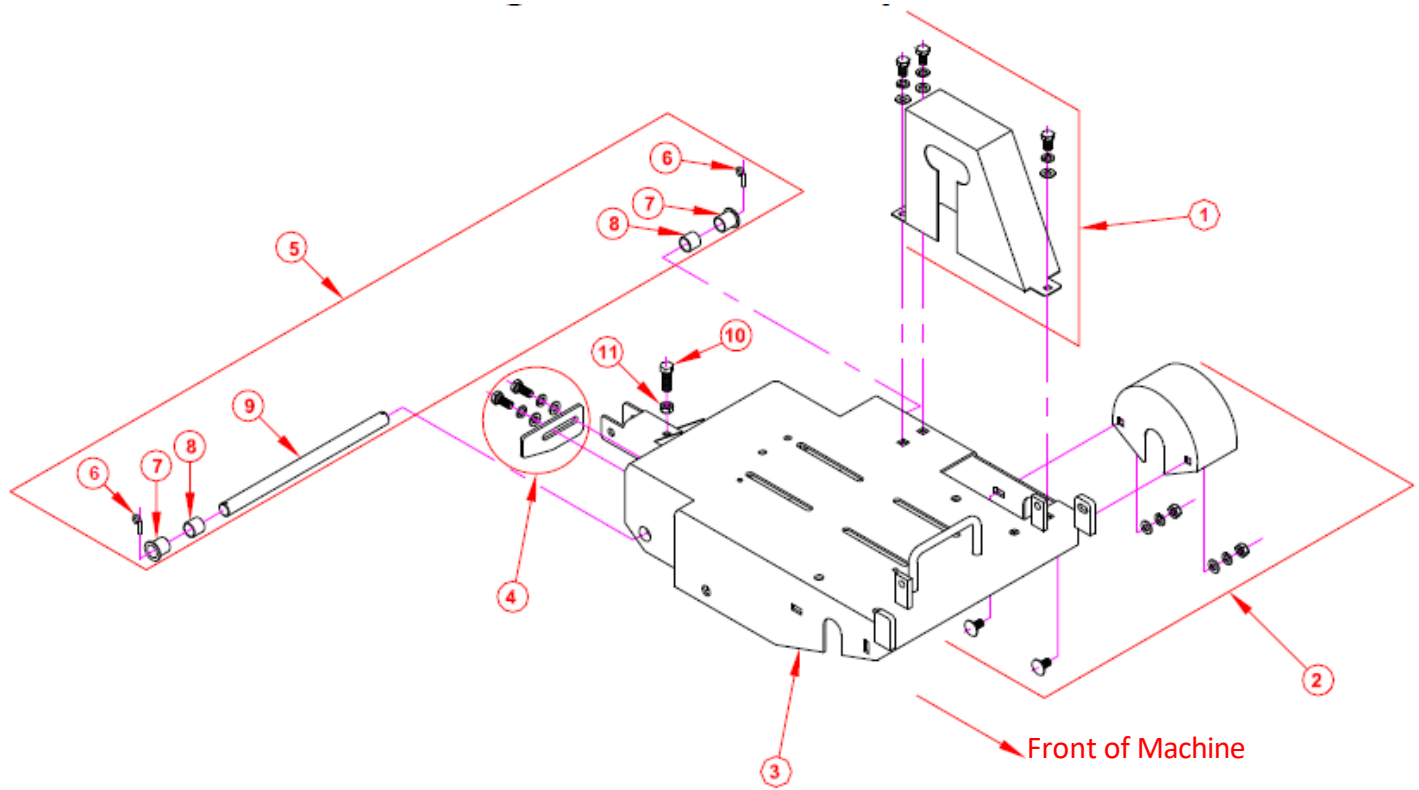
### Belt Tensioning Group

#	UPC	Part #	Description	QTY	Type
1	70184643374	232330	ENGINE MOUNTING KIT W/HARDWARE C1318P/C1418P	1	S

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.



### Engine Mount Group

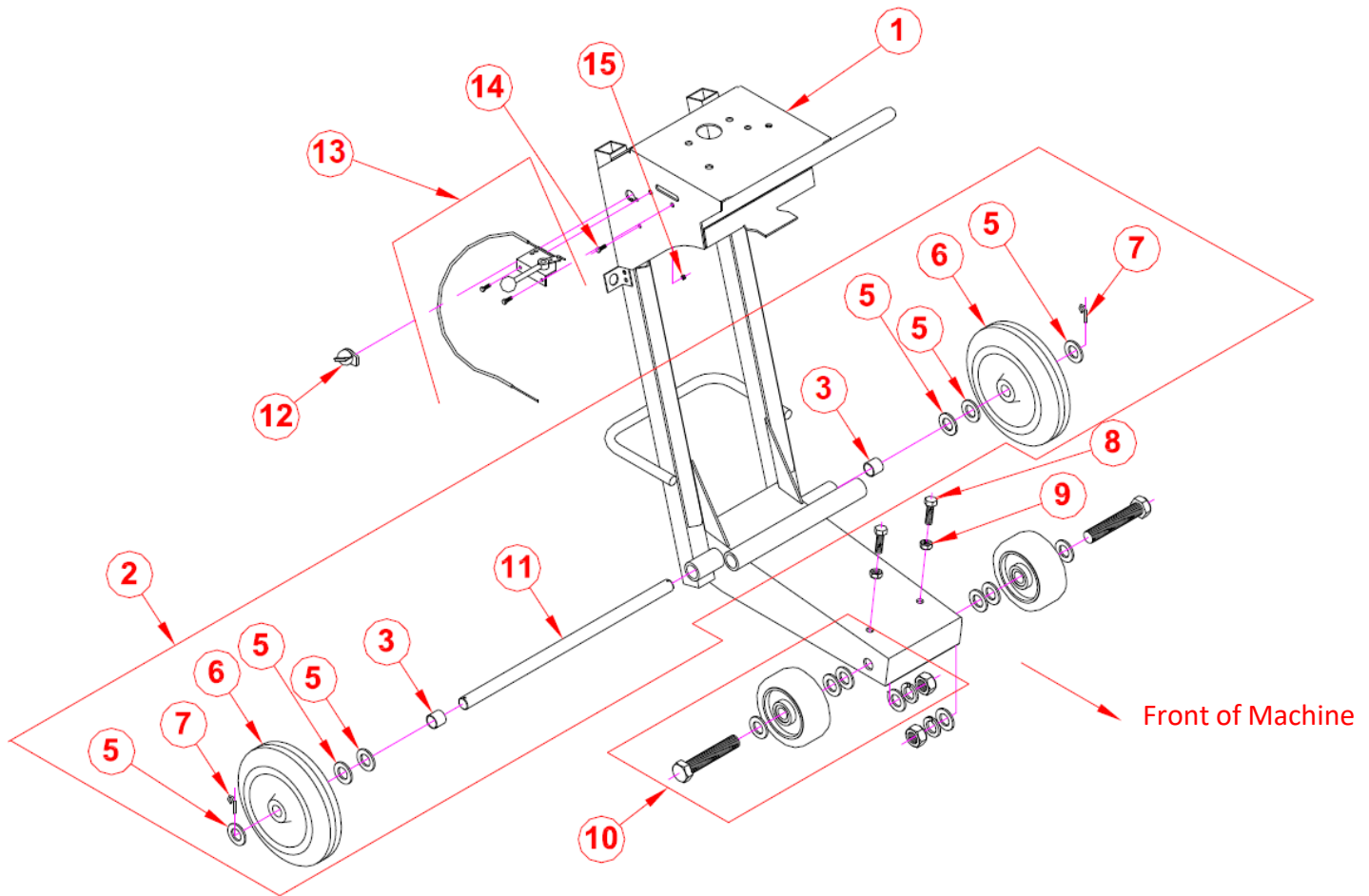


### Engine Mount Group

#	UPC	Part #	Description	QTY	Type
1	310007025	083371	BELT GUARD CPL. C1318P/C1418P	1	S
2	70184643375	232358	BLADE SHAFT GUARD ASSEMBLY	1	S
3	310007023	083369	ENGINE FRAME C13	1	S
4	310006570	082804	BRAKE KIT REAR WHEEL C1318P/C1418P	1	S
5	310006568	082802	FRAME AXLE COMPLETE C1318P/C1418P	1	W
6	70184674553	227146	PIN COTTER 1/8 X 1-1/2	2	W
7	310005502	080999	IGLIDUR RING GFM-2023-11	2	W
8	310005129	080297	BUSH INNR MOT PIVOT 20x23x25 (SET OF 2)	1	W
9	310006569	082803	PIVOT MOTOR & FRAME C1318P/C1418P	1	S
10	70184681620	27030A	SCR M10 X 35 1.5 DIN933	1	S
11	70184681615	27006	NUT M10 1.5 DIN934 HEX	1	S

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.

### Main Frame Group

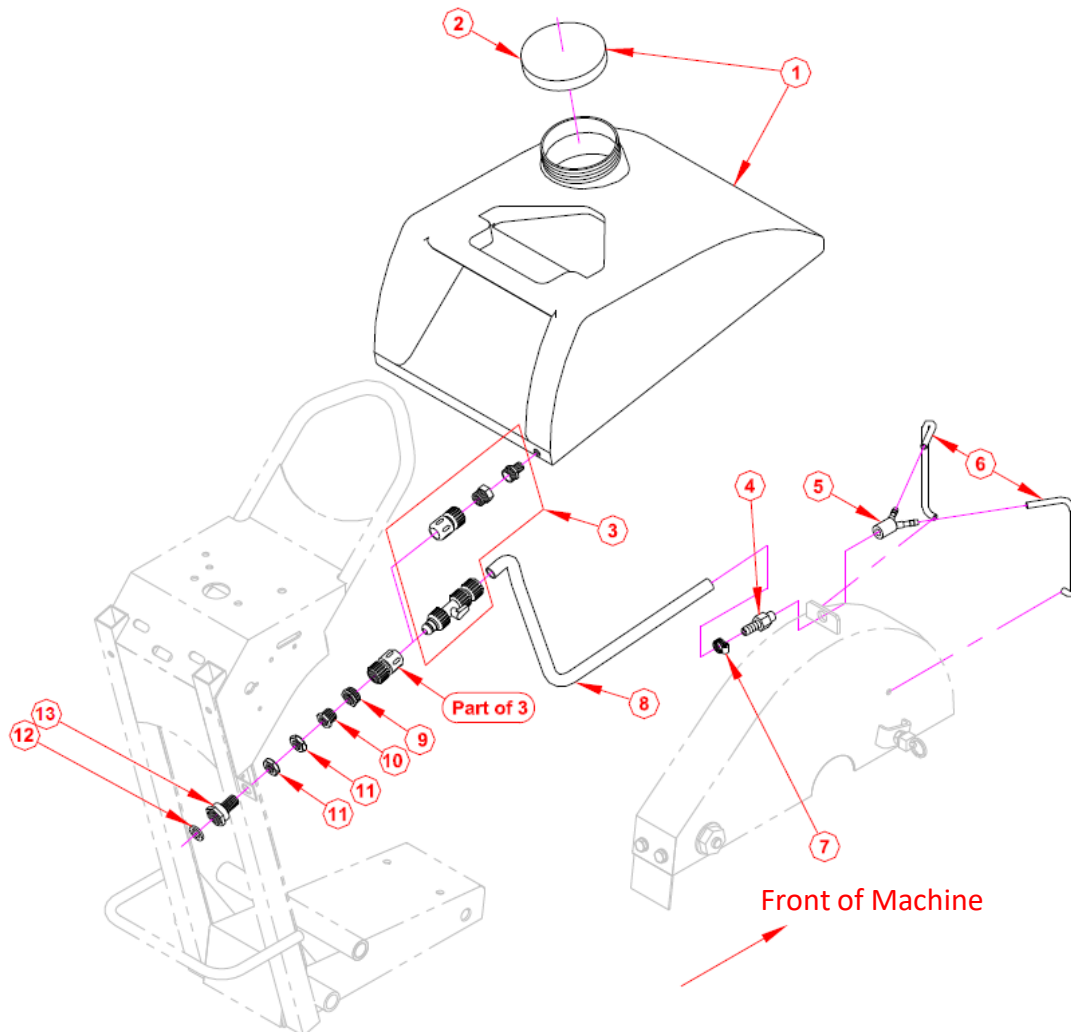


### Main Frame Group

#	UPC	Part #	Description	QTY	Type
1	70184643376	232323	MAIN FRAME WELDMENT C318P	1	S
2	310006550	082784	AXLE REAR COMPLT W/WHEELS	1	S
3	310005129	080297	BUSH INNR MOT PIVOT C13P18/C13 20x23x25 (SET OF 2)	1	W
5	70184681623	27504B	WASHER M20 DIN125 FLAT	6	S
6	310005495	080991	WHEEL 8X1-1/4 REAR (1)	2	W
7	70184674553	227146	PIN COTTER 1/8 X 1-1/2	1	W
8	70184681620	27030A	SCR M10 X 35 1.5 DIN933	2	S
9	70184681615	27006	NUT M10 1.5 DIN934 HEX	2	S
10	310006552	082786	WHEEL FRONT KIT 125/50/20 (2)	2	W
11	310006551	082785	AXLE REAR ONLY C13/C13P18/C99	1	S
12	70184674394	227115	SWITCH ENGINE ON/OFF HONDA GX390 – 1 WIRE	1	W
12*			For Kohler Engines order 70184674394 + 70184631616	1	W
	70184631616	239023	DECAL SWITCH ENGINE ON/OFF		
13	310024052	232124	THROTTLE ASSEMBLY C1318P/C13P18 (28" Overall Length)	1	W
13*	70184631614	239020	THROTTLE CABLE ASSY C1418P (41" Overall Length)	1	W
14	70184665412	224237	SCR M6 X 20 1.0 DIN933	1	S
15	70184625661	27007	NUT M6 1.0 DIN934 HEX	1	S

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC.

### Water Control Group

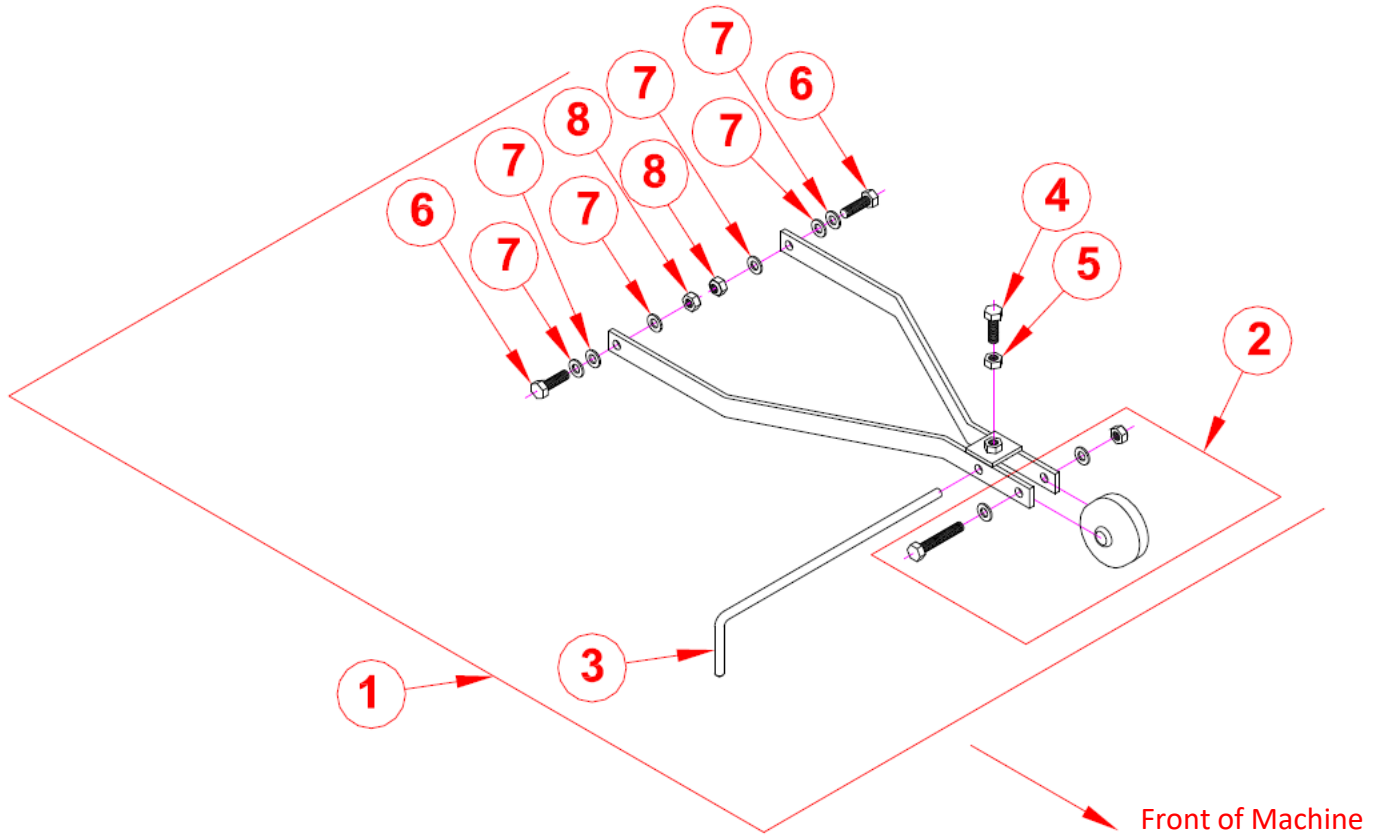


### Water Tank Group

#	UPC	Part #	Description	QTY	Type
1	310351798	232356	WATER TANK COMPLETE C1318P/C1418P CLIPPER	1	S
2	310006560	082794	STOPPER WATER TANK C1318P/C1418P	1	S
3	310024053	232121	GARDENA COUPLINGS C13	1	S
4	70184650465	9600014	FIT BARB HOSE 1/4MPTX1/2	1	S
5	310004233	072286	FIT HOSE Y	1	S
6	70184681299	082998	WATER NOZZEL (2) C/PC13	1	S
7	70184674516	227126	CLAMP HOSE WORM 7/32"TO 5/8 x 5/16"W	1	S
8	70184683507	0042521	TUBE 1/2ID X 3/4OD 48"LNG	1	S
9	70184628020	238067	REDUCER FIT 3/4MGH x 1/2FMPT	1	S
10	70184643377	232354	BUSHING HEX 1/2MPT x 3/8 FPT	1	S
11	70184643378	232355	NUT PIPE LOCK 3/8 BRASS	2	S
12	70184650620	101868	WASHER HOSE 1.00OD X .625	1	W
13	70184650637	121273	SWIVEL HOSE 3/8MPTX3/4GHT (2)	1	S

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.

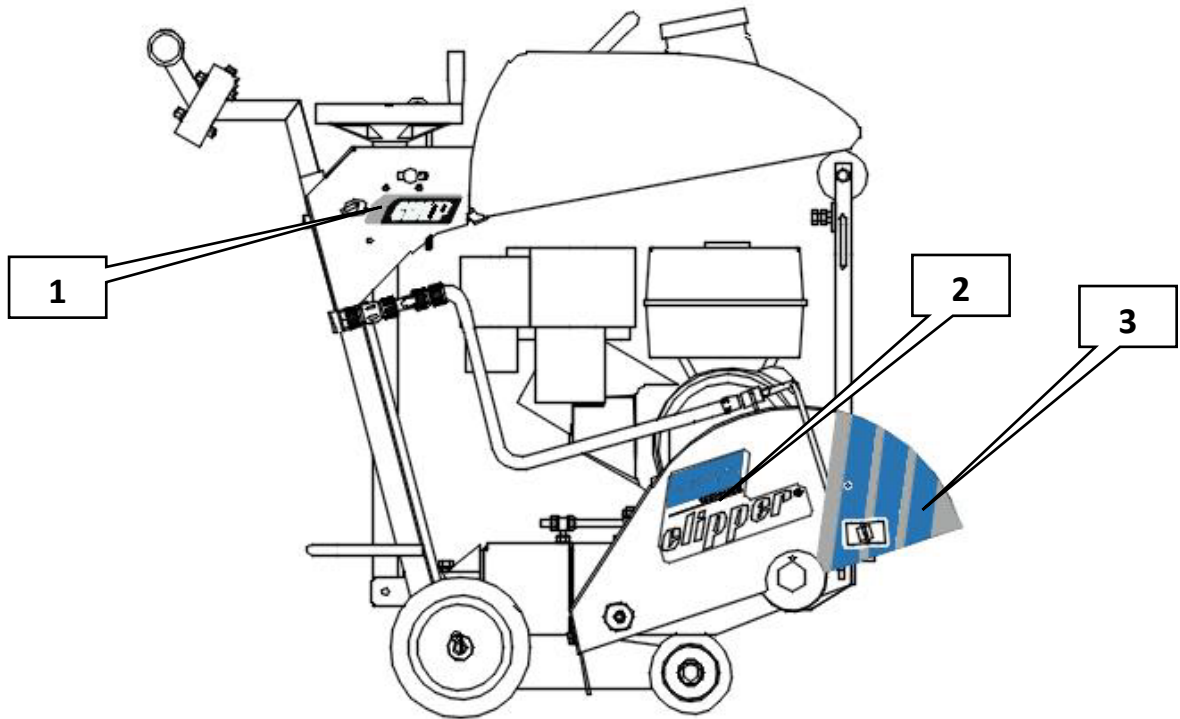
### Front Pointer Group



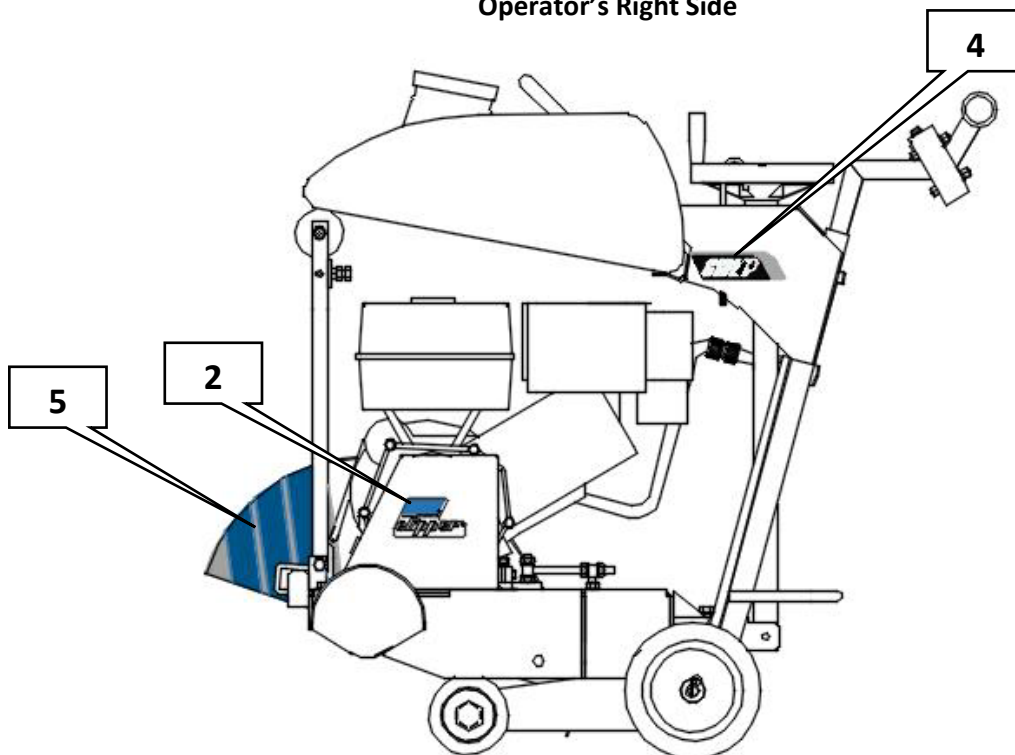
### Front Pointer Group

#	UPC	Part #	Description	QTY	Type
1	310024051	232127	GUIDE-A-CUT CPL. C1318P/C1418P	1	S
2	310004622	232126	WHEEL POINTER C1318P/C1418P	1	S
3	70184628068	232125	POINTER ROD C20xx/C13xx/PC20xx	1	W
4	70184627482	237242	SCREW M10 X 50 1.5 DIN933 HEX HEAD CAP FULL THREAD	1	S
5	70184681615	27006	NUT M10 1.5 DIN934 HEX	1	S
6	70184681605	27030	SCR M10 X 30 1.5 DIN933	2	S
7	70184681610	27504	WASHER M10 DIN125 ( <b>PAK OF 100</b> )	6	S
8	70184628215	239007	NUT M10 1.5 DIN985 LOCK	2	S

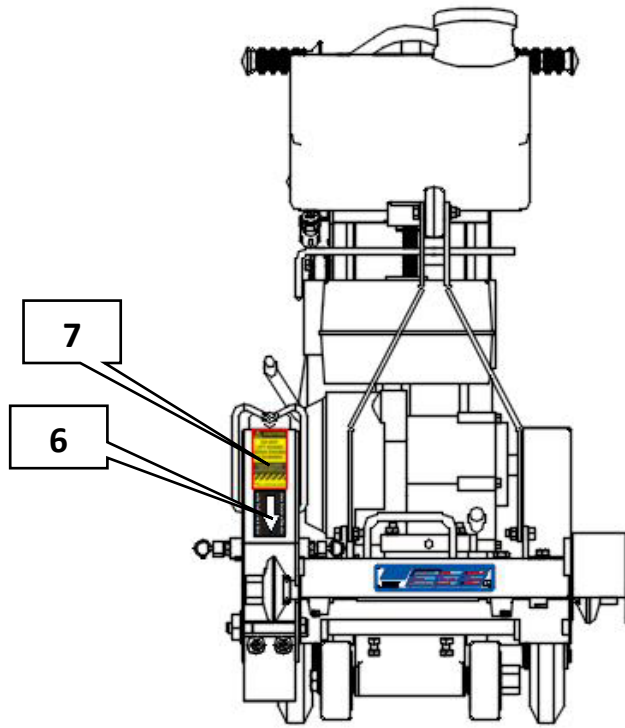
Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.



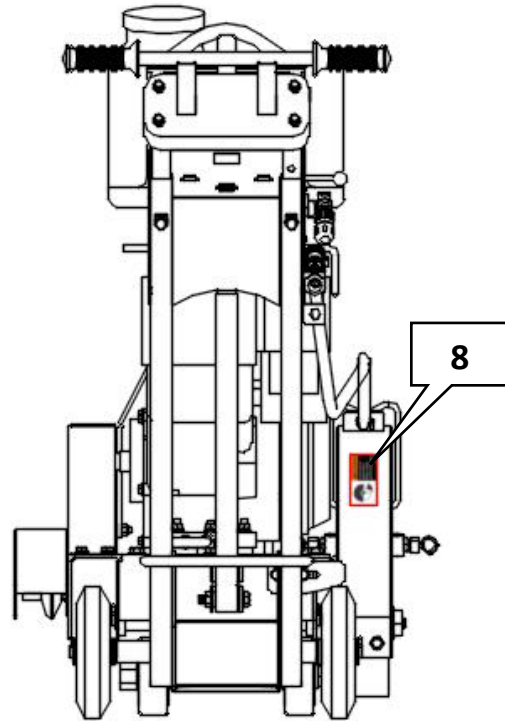
Operator's Right Side



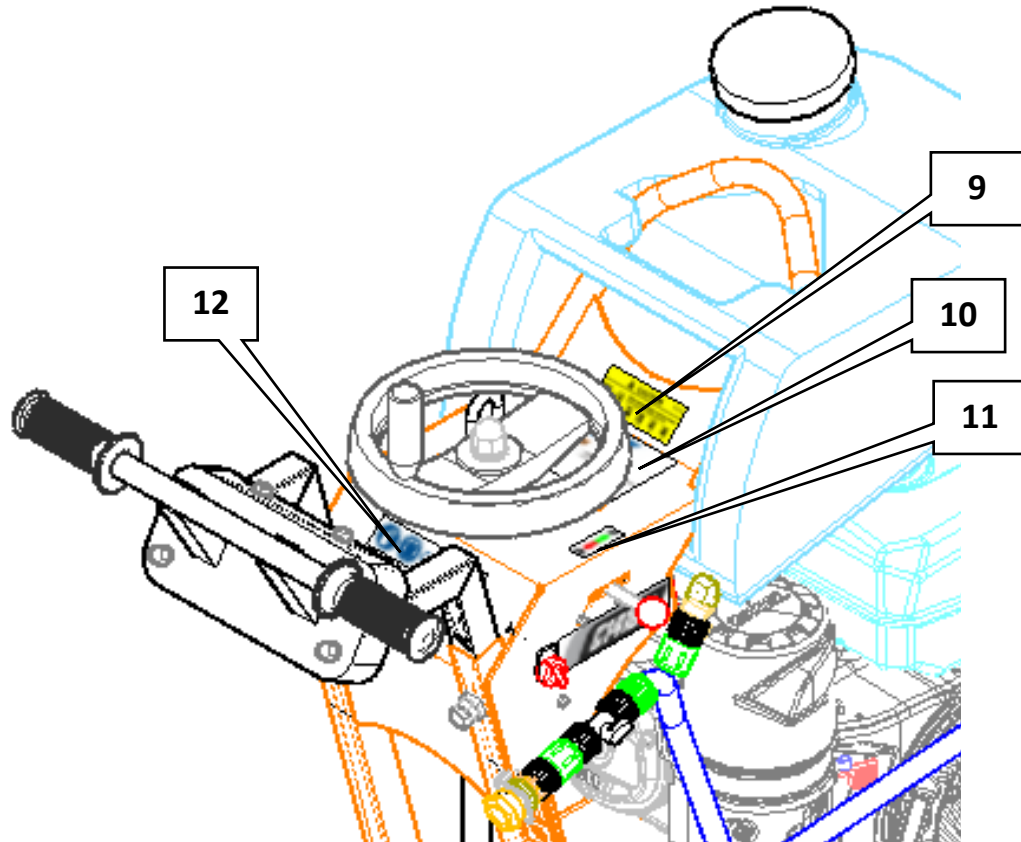
Operator's Left Side



Front

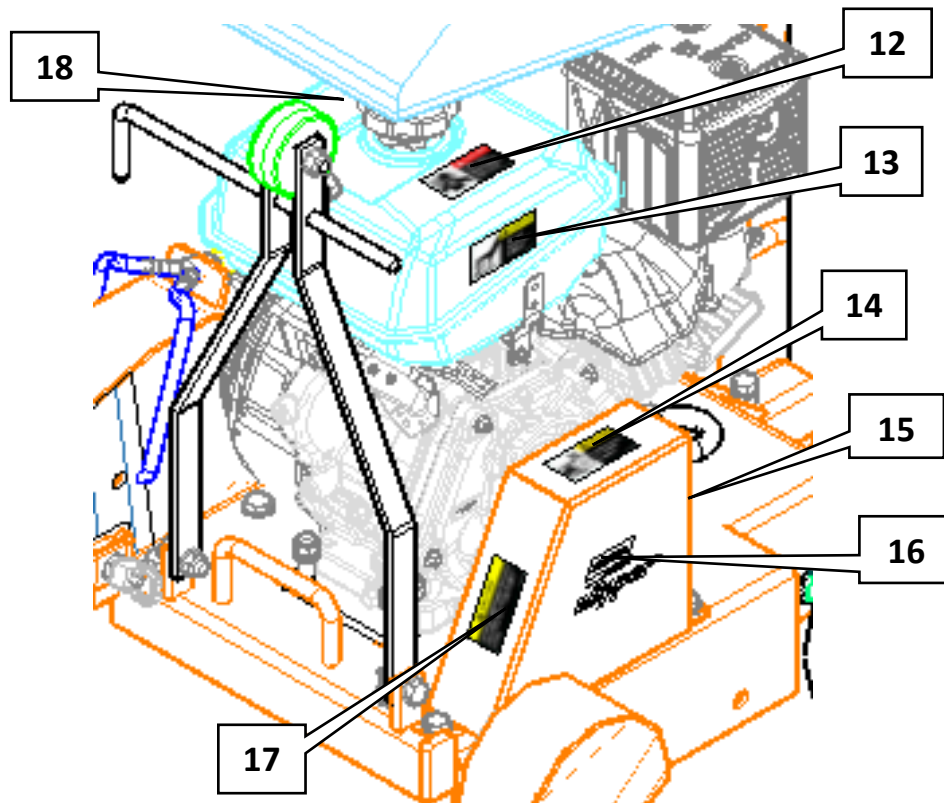


Rear

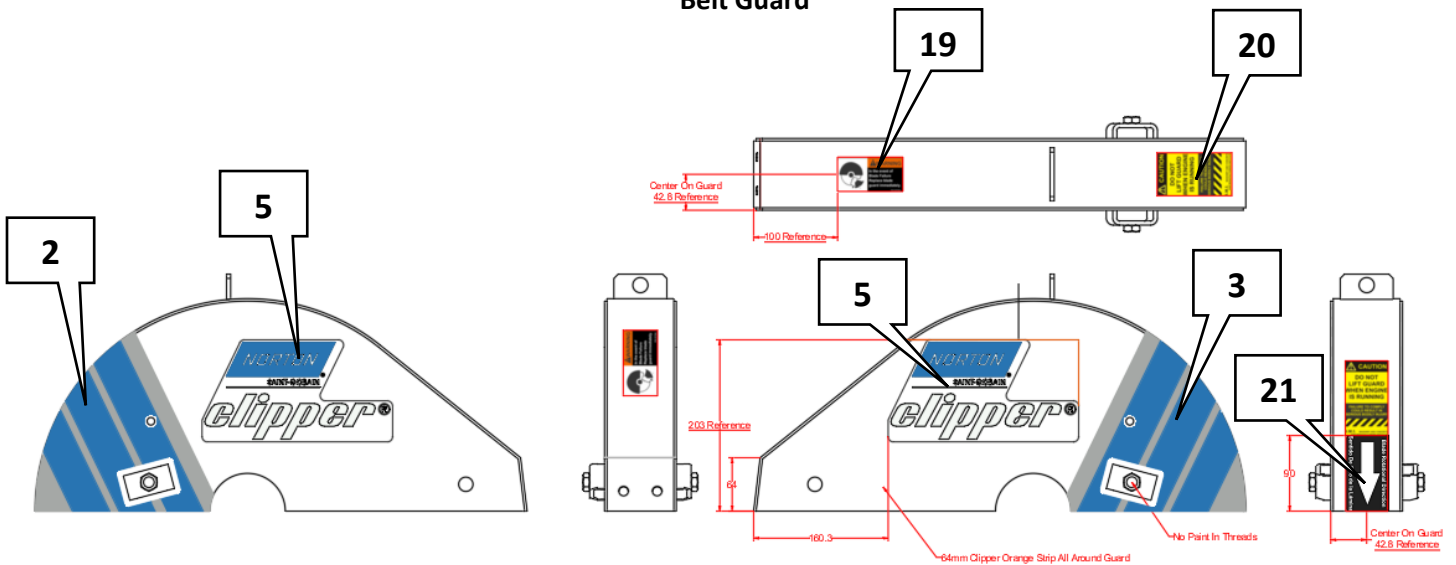


Console





### Belt Guard



### Blade Guard

#	UPC	Part #	Description	QTY	Type
<b>Operator's Right Side</b>					
1	70184608606	233904	DECAL MODEL C1318P OPP RIGHT	1	W
	70184631618	233455	DECAL MODEL C1418P OPP RIGHT	1	W
2	70184631637	233455	DECAL NORTON CLIPPER LOGO 8.93x4.79	1	W
3	70184632230	233453	DECAL NOSE STRIPE OPERATOR'S RIGHT C1318P/C1418P	1	W
<b>Operator's Left Side</b>					
2	70184631637	233455	DECAL NORTON CLIPPER LOGO 8.93x4.79	1	W
4	70184608607	233905	DECAL MODEL C1318P OPP LEFT	1	W
	70184631619	233905	DECAL MODEL C1418P OPP LEFT	1	W
5	70184632231	233454	DECAL NOSE STRIPE OPERATOR'S LEFT C1318P/C1418P	1	W
<b>Front</b>					
6	70184632232	233462	DECAL DIRECTIONAL ARROW BLADE GUARD	1	W
7	70184653268	108850	DECAL GUARD LIFT CAUTION Serial Number Plate NOT sold Separately	1	W
<b>Rear</b>					
8	70184674659	227264	DECAL BLADE FAILURE WARNING	1	W
<b>Console</b>					
9	70184674481	227234	DECAL SAFETY GEAR CAUTION	1	W
10	70184680834	233070	DECAL CONSOLE C1318P/C13/PC13/C9	1	W
11	70184632233	70184632233	DECAL THROTTLE C1318P	1	W
	70184631617	239024	DECAL THROTTLE C1418P	1	W
12	70184632229	201203-129	DECAL PICTOGRAM	1	W
<b>Belt Guard and Engine</b>					
12	70184674649	227243	DECAL DANGER LETHAL FUMES	1	W
13	70184674630	227235	DECAL CAUTION HOT SURFACE	1	W
14	70184674632	227237	DECAL CAUTION GUARDS	1	W
15	70184674633	227238	DECAL CAUTION BELTS	1	W
16	70184632228	233384	DECAL NORTON CLIPPER LOGO 8.93x4.79"	1	W
17	70184674634	227239	DECAL CAUTION DISCONNECT	1	W
18	70184674647	227241	DECAL WARNING REFUELING	1	W
<b>Blade Guard</b>					
2	70184631637	233455	DECAL NORTON CLIPPER LOGO 8.93x4.79	1	W
3	70184632230	233453	DECAL NOSE STRIPE OPERATOR'S RIGHT C1318P/C1418P	1	W
5	70184632231	233454	DECAL NOSE STRIPE OPERATOR'S LEFT C1318P/C1418P	1	W
19	70184674659	227264	DECAL BLADE FAILURE WARNING	1	W
20	70184653268	108850	DECAL GUARD LIFT CAUTION	1	W
21	-NA-	233462	DECAL BLADE ROTATION	1	W

Type: S = Service Part, W = Wear Part, All Parts Are Sold As Individual (each) Unless Noted Otherwise. Order with UPC number.



**NOTES:**

# WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known 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, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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