

OWNERS MANUAL

Medium Concrete Saws



MODELS:

**C1316SS
C1320SS
C1420SS**

**C1316SM
C1320SM
C1420SM**

**C2016SS
C2020SS
C2024SS**



clipper®

FORM C2020SS rev 7-2022

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Read Owners Manual Before Use

Safety Alert Symbol: Information Following This Symbol Is Very Important.

I. PREPARATION

A. Safety Precautions

Important! The following safety precautions must always be observed.

Hazard Symbols



Fuel (gasoline) is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well ventilated, unoccupied areas approved, and away from sparks or flames. Do not fill the saw 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



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 guard in place when operating any piece of equipment



Keep hands, feet, hair, and 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 or equipment can result if operated at speed above maximum. Always obey the maximum speed rating of blade.



DO NOT LIFT THE SAW BY THE HANDLE BARS

⚠ WARNING

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.

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 and arbors should be cleaned and examined for damage before mounting the blade.
3. The blade must be properly fitted over the arbor with the drive pin on the outside collar projecting through the drive pin hole on the blade and inside collar.
4. The blade shaft nut, which is a left hand thread 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. Turn water control valve to full to provide adequate coolant (5 to 8 gallons per minute) for diamond blades and wet cutting abrasive blades. Insufficient coolant could result in severe blade breakage or diamond segment separation.
7. The blade guard must be in place with the nose guard down and locked when the saw is running.
8. The operator should wear safety glasses and any other appropriate safety equipment.
9. When starting the saw, the operator should stand away and to the side of the blade.
10. If for any reason the saw should stall in the cut, raise the blade out of the cut. Check the outside blade shaft collar and nut for tightness. Inspect the blade for damage before restarting the saw. User caution when resuming a cut. Be certain that the blade is in alignment with the previous cut.
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!!!

I. PREPARATION

B. Assembly

The self-propelled concrete saws are shipped completely assembled and ready for use except for diamond blade, gasoline, oil, and handle bar. Inspect the saw for shipping damage. If any damage is found, contact the shipper immediately and file a freight claim. The Norton Company is not responsible for any freight-related damages. Remove the saw from the pallet. Reverse the position of the handlebars so that the handle bar sticks out towards the operator. Adjust the handlebars to the desired height. Attach the handlebars to the saw with the supplied hardware. For electric start models fill and check the electrolyte level and charge the battery. Read and understand the remaining sections of this Owners 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.

C. C13xx/C20xx Concrete Saw Specifications

Dimensions/Weight	C1316SS C1320SS	C1316SM C1320SM	C2016SS C2020SS C2024SS
Length (Transport)	56 inch (1142 mm)	56 inch (1142 mm)	56 inch (1142 mm)
Width	26 inch (660 mm)	26 inch (600 mm)	26 inch (600 mm)
Height	40 inch (1016 mm)	40 inch (1016 mm)	40 inch (1016 mm)
Weights	385 lbs (175 kg)	405 lbs (175 kg)	428 lbs (195 kg)
Engine			
Engine Mfg.	Honda	Honda	Honda
Model	GX390	GX390	GX630
Spec No.	GX390K1QXC9	GX390UT1QAE2	GX630TXF2
Engine Type	Single Cylinder 4 Cycle	Single Cylinder 4 Cycle	Two Cylinders 4 Cycle
Horse Power Net (SAE J1349)*	13 hp (9.5kW) @ 3,600 rpm	13 hp (9.5kW) @ 3,600 rpm	20.8 hp (15.5kW) @ 3,600 rpm
Max Torque Net (SAE J1349)*	19.5 lbs-ft (26.5 Nm, 2.7 kgf-m) @ 2,500 rpm	19.5 lbs-ft (26.5 Nm, 2.7 kgf-m) @ 2,500 rpm	35.6 lbs-ft (48.3 Nm, 4.50 kgf-m) @ 2,500 rpm
Cooling System	Air	Air	Air
Oil Capacity	1.1 liter (1.16 US qt)	1.1 liter (1.16 US qt)	2.0 liter (2.1 US qt)
Fuel Capacity	6.5 liter (1.79 US gal)	6.5 liter (1.79 US gal)	8.03 liter (2.12 us gal)
Fuel Type	Unleaded Gasoline (86 pump octane)	Unleaded Gasoline (86 pump octane)	Unleaded Gasoline (86 pump octane)
Low Oil Sensor	Yes	Yes	Yes
Air Filtration	Four Stage Honda Cyclone	Two Stage Honda	Four Stage Honda
Start Type	Manual	Electric	Electric
Characteristics			
Max Blade	20" (356 mm)	20" (356 mm)	24" (406 mm)
Depth of Cut	24" (406 mm)	-NA-	9-1/2 inch (241 mm)
	20" (356 mm)	7-1/2 inch (191 mm)	7-1/2 inch (191 mm)
	16" (305 mm)	5.50" (140 mm)	5.50" (140 mm)
Arbor Bore	1 inch (25.4 mm)		
Blade Shaft Locking Device	Machined Into Flats Of Tight Collar		
Blade Shaft Speed	16" and 20" Models: 2,520 rpm 24" Models: 2,120 rpm		
Depth Control	Hand Wheel With Screw Feed		
Depth Lock	Standard		
Number Of V-Belts	4		
Blade Guard Type	Pivoting All Steel Construction		
Right or Left Side Cutting	Standard		
Lifting Bale	Built In		
Handle Bars	Adjustable		
Recessed Rear Wheels	Standard		
Front Wheel	Wheel 5 x 2 x 3/4 With Roller Bearing		
Rear Wheel	Wheel 6 x 2 x 3/4 With Roller Bearing		

*: The engine net Horsepower and Torque is supplied by Honda Power. The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3,600 rpm (net power) and at 2,500 rpm (max net torque). Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

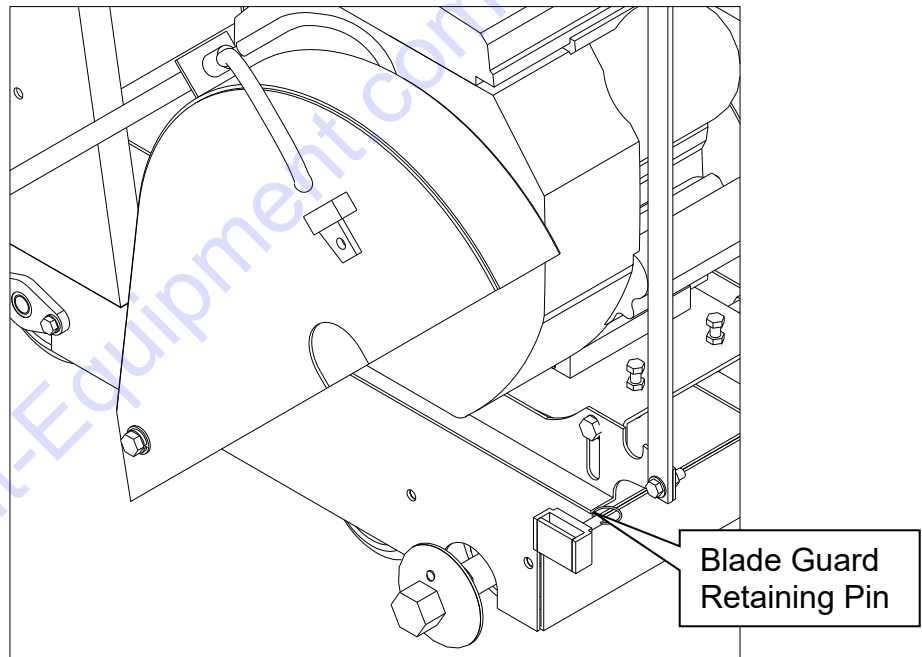
II. OPERATION



Read and understand this manual before running or using the machine!

A. Installing the Blade

1. Insure that the Ignition Power Key Switch is in the OFF position and then disconnect the spark plug.
2. Remove the blade shaft nut, (NOTE: Operator's Right side is a left hand thread and the Operator's Left side is right hand thread), and remove the outside collar. Rotate the Blade Guard to gain better access to the Blade Shaft Nut, Loose Collar, Blade, and Tight Collar. To Rotate the Blade Guard pull the Blade Guard Retaining Pin out away from the Blade Guard Frame Bayonet and the rotate the Blade Guard up and out of the way.



Blade Guard Retaining Pin with Guard Rotated for Access to Blade Shaft Nut and Collars

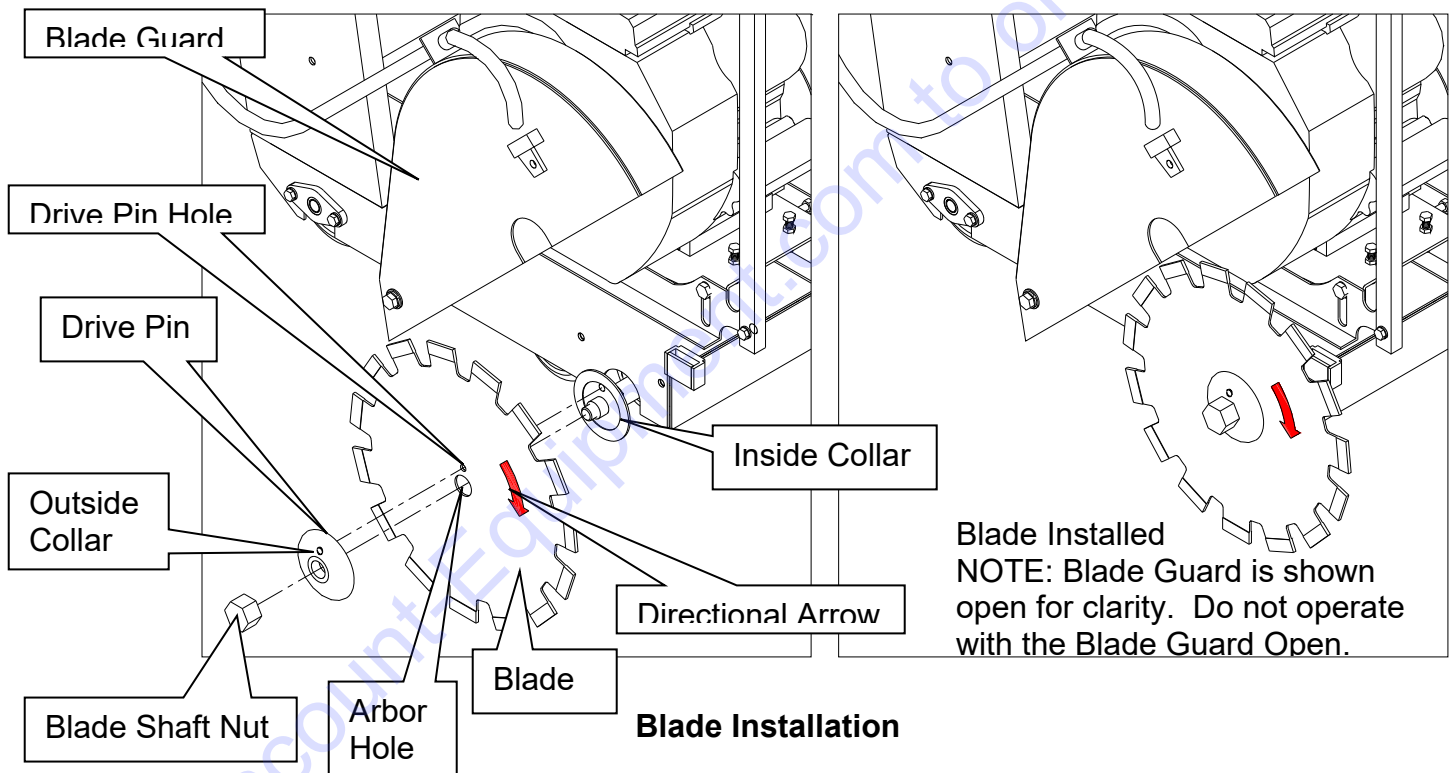
3. Clean off any foreign particles on the clamping surfaces of both collars and on the mounting surface of the blade and also inspect the drive pin for damage. Replace any damage collars or pins before using the machine.
4. Inspect the blade for any damage, cracks, burnt or blue areas, missing segments, and roundness of blade. Also inspect the arbor hole and drive

pin hole to insure both are round. If any problems are found do not use the blade. In addition check that the blade is the correct specification for the application.

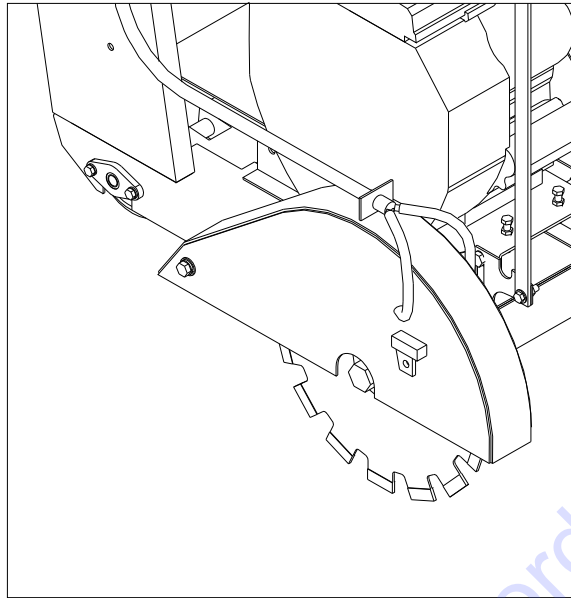


Use only Clipper Diamond Blades. This machine was not designed for the use with abrasive blades.

5. Place the blade on the blade shaft, lining up the drive pin hole in the blade with the drive pinhole in the inside collar. NOTE: Diamond blades are direction dependent so verify the direction of rotation of the blade. The machine will rotate the blade into the work surface (down cut). Place the blade guard in position and insert the blade guard retainer pin. Never operate the saw without the blade guard or blade guard retainer pin in position **See the following diagram *Blade Installation***.



6. 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.
7. Tighten the blade shaft nut (counter-clockwise for the Operator's Right Hand side and clockwise for the Operator's Left hand side).
8. Insure that the Blade Guard is lowered and the Blade Guard Locking pin is secure. Close Blade Guard Nose. **See *Blade Installed* diagram below.**



Blade Installed

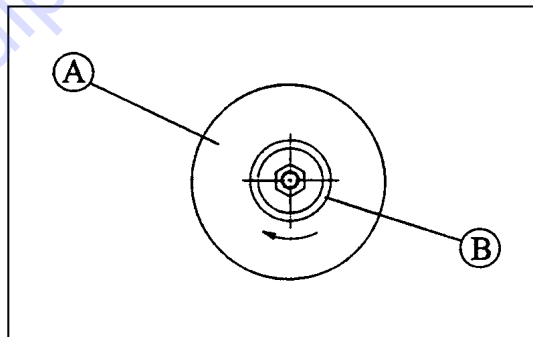
9. Reconnect the spark plug.



Observe rotation arrow on blade and do not exceed maximum RPM stamped on blade.



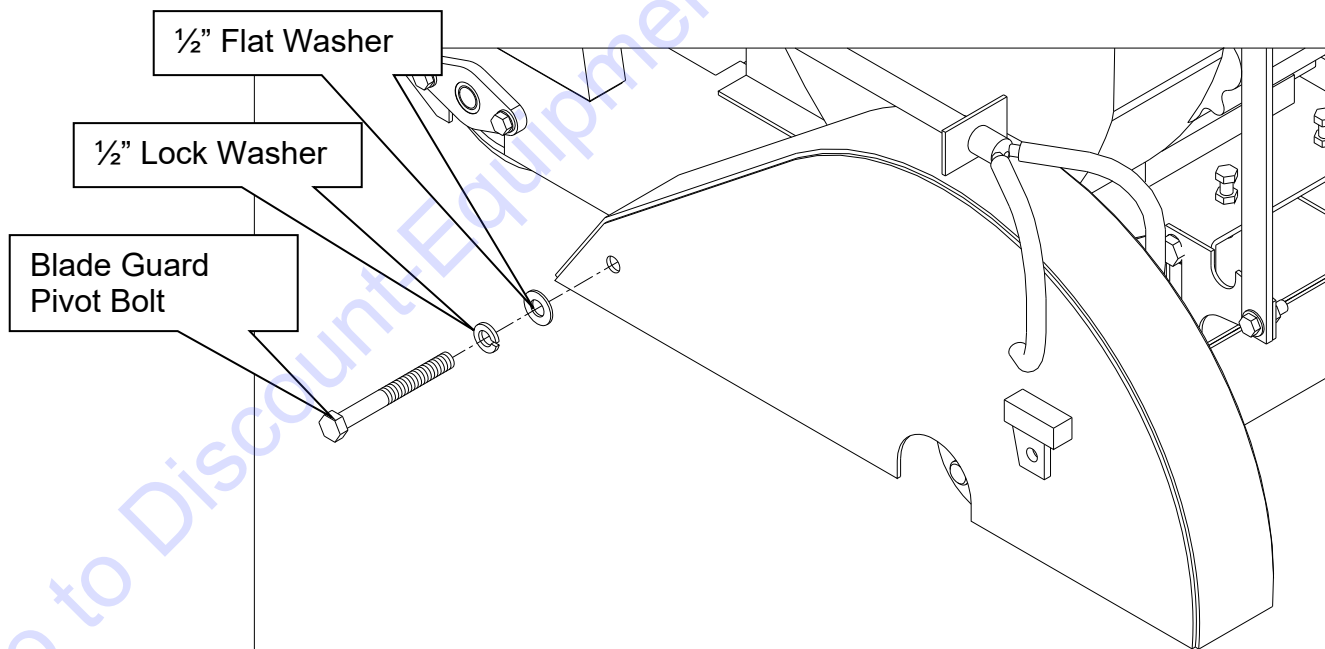
NOTE: Organic bonded blades (A) must have a blotter. The blotter (B) must extend past the blade collar contact area as shown.



Blades Use Only Norton Clipper Diamond Blades

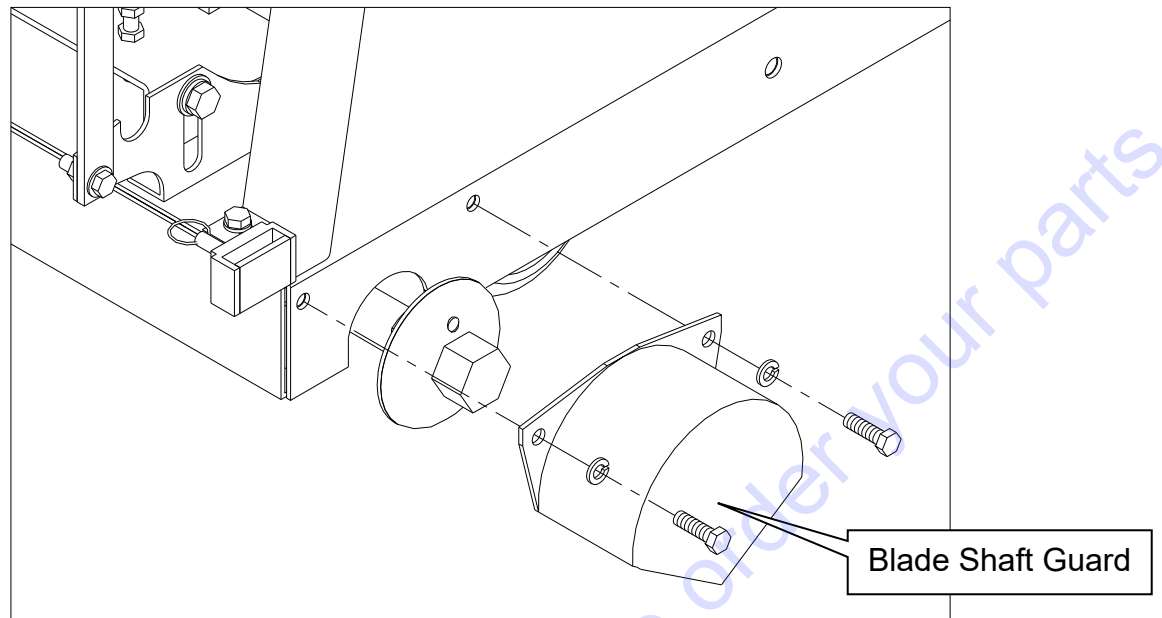
B. Changing the Blade Side:

1. Insure that the Ignition Power Key Switch is in the OFF position and then disconnect the spark plug.
2. Remove the blade shaft nut, (NOTE: Operator's Right side is a left hand thread and the Operator's Left side is right hand thread), and remove the outside collar.
3. Clean off any foreign particles on the clamping surfaces of both the outside and inside collars and on the mounting surface of the blade and inspect the both collars for any damage and also inspect the drive pin for damage. Reinstall the Blade Shaft Collars to the machine. **NOTE:** Replace any damage collars or pins before using the machine.
4. Inspect the blade for any damage, cracks, burnt or blue areas, missing segments, and roundness of blade. Also inspect the arbor hole and drive pin hole to insure both are round. If any problems are found do not use the blade. In addition check that the blade is the correct specification for the application.
5. Remove the Blade Guard from the machine by unscrewing the Blade Guard Pivot Bolt from the rear of the Blade Guard. **NOTE:** Keep the $\frac{1}{2}$ " Flat Washer and $\frac{1}{2}$ " Lock Washer on the Bolt.



Blade Pivot Bolt Removal

6. Remove the Blade Shaft Guard by removing the Blade Shaft Guard retaining bolts. **See *Blade Shaft Guard Removal* diagram below.**



Blade Shaft Guard Removal

7. Place the blade on the blade shaft, lining up the drive pin hole in the blade with the drive pinhole in the inside collar. NOTE: Diamond blades are direction dependent so verify the direction of rotation of the blade. The machine will rotate the blade into the work surface (down cut).
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.
8. Tighten the blade shaft nut (counter-clockwise for the Operator's Right Hand side and clockwise for the Operator's Left hand side).
9. Place the blade guard in position and insert and tighten the Blade Guard Pivot Bolt. Never operate the saw without the blade guard or blade guard retainer pin in position **See the diagram Blade Shaft Installation** on page 10 and **Blade Installed** on page 11.
10. Insure that the Blade Guard is lowered and the Blade Guard Locking pin is secure. Close Blade Guard Nose.
11. Attach the Blade Shaft Guard to the opposite side of the machine.
12. Remove the Pointer and reattach it to the Operators Left hand side of the machine. NOTE: Reverse the orientation of the Pointer
13. Reconnect the spark plug.

C. Engine Operation

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 1.1 liters (1.16 US qt)
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 for proper engine starting procedure.
5. **Engine Speed:** Always run the engine and the proper speed for the blade being used. Never run the blade at a higher speed that it is rated for. See the Blade Speed chart located on the machine's console or located in the manual under the heading "Operating the Saw"

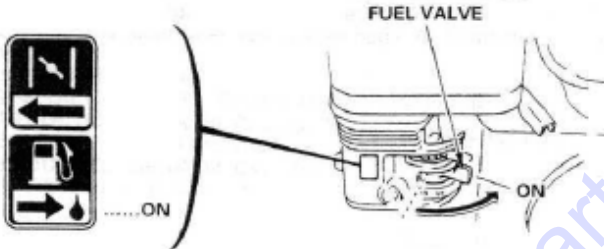
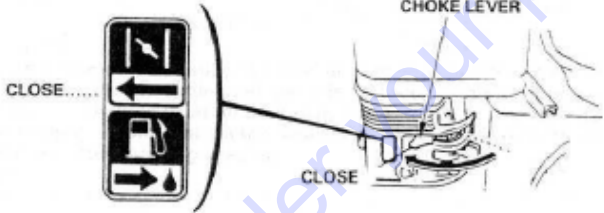
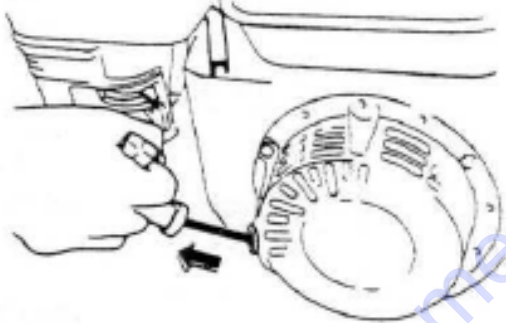
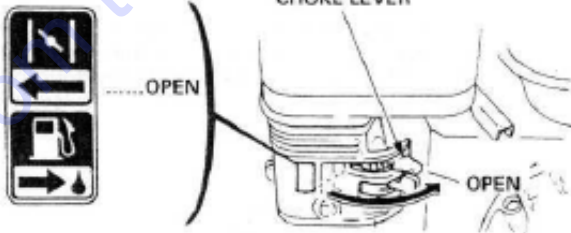
Starting the Engine

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, insure that the blade is properly installed, all guards are in place and in safe operating condition, and that the Blade is not in contact with any surface or object. Also verify that the area where the work is to be preformed is clean, safe, and has proper ventilation and lighting. Always located and properly mark all water, gas, and electrical services before beginning any work.

13HP Engine Special Instructions:

<p>Turn the Fuel Control To the ON Position</p>	
<p>Move the choke lever to the CLOSED position. NOTE: do not use the choke if the engine is warm or the air temperature is high.</p>	
<p>Pull The Throttle Control Slightly to the Rear to provide some engine throttle.</p>	
<p>Place the engine ON/OFF switch to the ON position</p>	
 <p>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 it gently to prevent damage to the starter.</p>	 <p>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.

20 HP Engine Starting

1. Verify that the Emergency Stop Switch is in the UP position
2. Verify that the fuel tank is full
3. Turn the Ignition Switch Clock Wise
 - a. If cold pull chock control out to engage choke
4. When the engine starts release the Ignition Switch
 - a. If Choke was engaged slow press the Choke control in
5. Let the engine warm up 3 to 5 minutes before use.

D. 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.

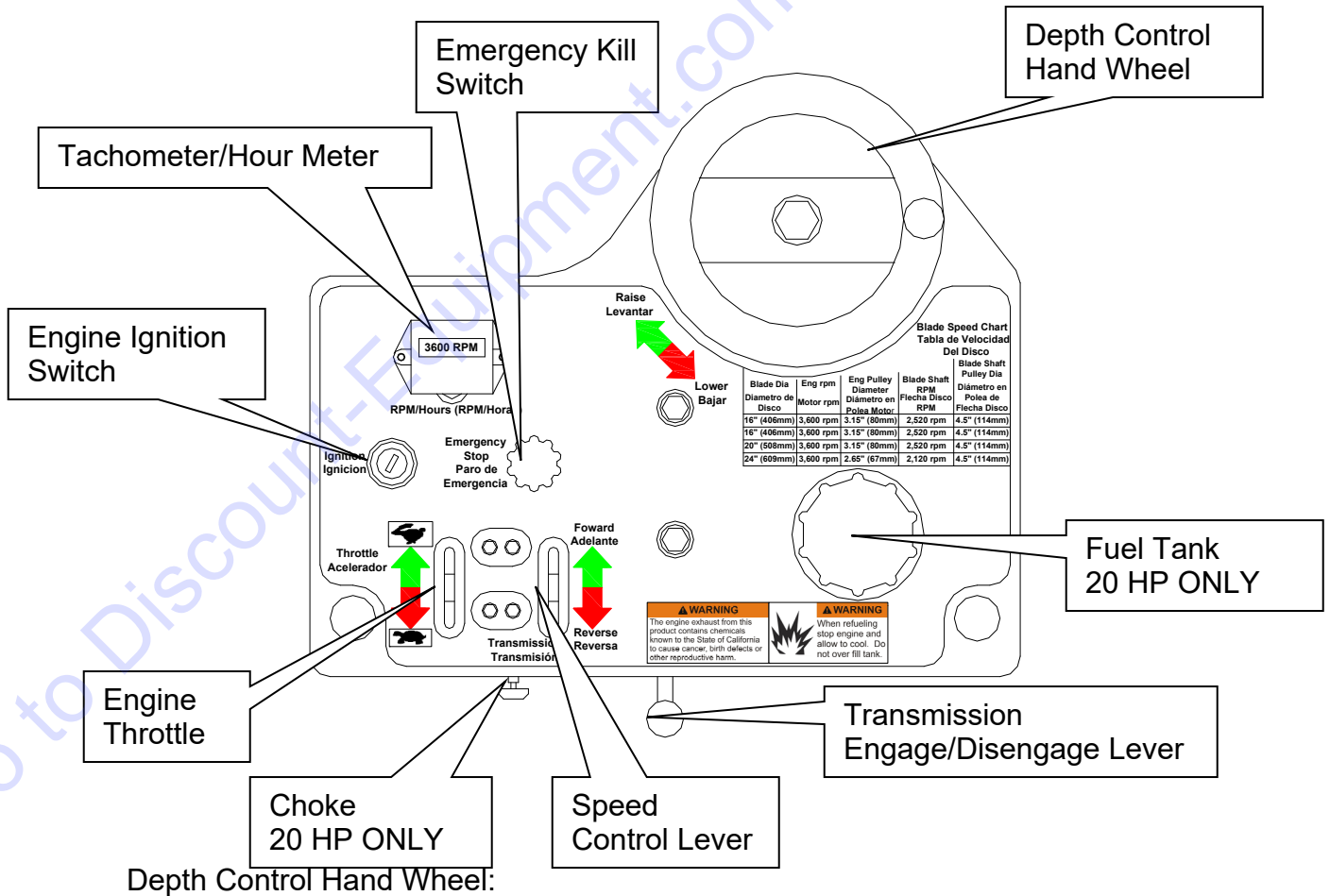
Optional Water Tank on saw: This supply is designed for use with dry blades to keep the dust levels down. The tank will not supply the proper water flow rates when used with wet cut only blades. Do not drink the water from this tank. Fill the tank with water only. Close the water tank valve. Attach the saws water supply hose to the tank outlet. Fill the tank with water. The capacity of the tank is 5 US Gallons. 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.



Notice
Water Only
Do Not Drink

- Use Only Water In The Water Tank
- Do Not Drink From The Tank

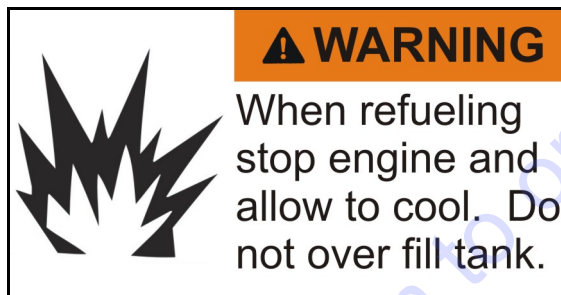
E. Controls



Controls the cutting depth of the blade. Rotate Clockwise to raise and counter clockwise to lower the depth of cut.

Fuel Tank (20 HP Only):

An internal all metal fuel tank is standard equipment for 20 HP models only (C2016, C2020, C2024, PC2016, PC2020, and PC2024). All 13 HP models have a fuel tank attached to the top of the engine. To fill the Fuel Tank remove the Fuel Cap slowly, fill tank to approximately 1-½” below the bottom of the Fuel Tank Neck and reattach the Fuel Cap. Do not over fill the tank. Avoid fuel spills and contact with fuel. Only re-fuel in well ventilated areas and way from sparks and open flames.



Transmission Engage/Disengage Lever:

Controls the Engagement and Disengagement of the Transmission. Push down to Engage and pull up to disengage the transmission. Only operate the Transmission Engage/Disengage Lever when the machine is NOT moving. Operation of the Transmission Engage/Disengage Lever while the machine is moving may damage the Rear Wheels. When the Transmission Engage/Disengage Lever is in the Disengage position the machine can be moved with out the engine running. **NOTE:** When parking the saw, it should always be left in the Engaged position, Speed Control Lever in the neutral position, the engine OFF, and perpendicular (right angle) to the grade (hill).

Speed Control Lever:

Controls the forward and reverse speed of the Transmission. To increase the forward speed push the lever forward with the engine running at full speed and the Transmission engaged. To reverse move the Speed Control Lever towards the rear of the machine. **NOTE:** The further forward or reverse the Speed Control Lever is moved the faster the machine will move in this direction. To place in a neutral speed condition place the Speed Control Lever in the center. **NOTE:** Over time the neutral position may change slightly due to cable stretch and mechanical component wear. Either re-adjust the Transmission Control Cable Linkage or move the Transmission Speed Control Lever to it's new position.

Choke 20 HP ONLY:

Units with a 20 HP Engine (C2016SS, C2020SS, and C2024SS) are equipped with a remote mounted Engine Choke Control. To operate the Choke pull the control lever out away from the machine and then follow the

instructions for starting the engine found in the Engine manual. All 13 HP units are equipped with a Choke control attached to the Engine below the Air Cleaner on the Operator's Right Hand Side.

Engine Throttle:

The Engine Throttle Control allows the operator to adjust the Engine Speed while starting and operating the machine. To increase the Engine Speed push the Engine Throttle Control forward. To decrease the Engine Speed pull the Engine Throttle Control to the rear.

Engine Ignition Switch:

The Engine Ignition Switch allows the operator to start and stop the engine.

Tachometer/Hour Meter:

The Tachometer/Hour Meter shows the engine RPM only when the Engine is running. The total Engine operating hours (run time) are shown when the Engine is turned off.

Emergency Kill Switch:

The Emergency Kill Switch will stop the engine when depressed. The engine will not restart until the Emergency Kill Switch is pulled out. Use the Engine Ignition Switch for normal shut down of the Engine. Use the Emergency Kill Switch when a problem arises.

F. Operating the Saw

1. For the engine starting instructions see the Engine manual and follow the instructions located in section **II. Operation** sub heading **A. Installing the Blade on page 10.**
2. Check the Engine Oil level. See Engine Manual for details.
3. Disengage the Self-propelling unit by moving the Transmission Engage/Disengage lever fully up and place the Speed Control in the neutral position.
4. Raise the saw to the full upright position. Do not let the blade come in contact with the ground.
5. Maneuver the saw to the desired starting point.
6. If wet cutting connect the water supply to the saw.
7. Follow the instructions for starting the engine found in the Engine manual.

8. 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 two gallons per minute of water flow!!
9. Be sure that the engine is running at full throttle!!! Check Engine Speed on the Tachometer to that listed on the Blade Speed Chart located on the Console is correct for the diameter of Blade being used.

Engine and Blade Speed Chart

Blade Diameter	Engine RPM	Engine Pulley Diameter	Blade Shaft RPM	Blade Shaft Pulley Diameter	NOTES
14" (356mm)	3600 RPM	3.15" (80mm)	2520 RPM	4.5" (114mm)	
16" (406mm)	3600 RPM	3.15" (80mm)	2520 RPM	4.5" (114mm)	
20" (508mm)	3600 RPM	3.15" (80mm)	2520 RPM	4.5" (114mm)	
24" (609mm)	3600 RPM	2.65" (67mm)	2120 RPM	4.5" (114mm)	20HP Only

10. Slowly lower the blade by rotating the hand wheel clockwise until the desired depth of cut is reached. Use a reasonable rate of feed. A reasonable rate of feed will depend on depth of cut, material, and blade. Normal cutting speeds should be between 2 ft/min in very hard material and up to 10 ft/min in softer materials. Do not force the blade in to the cut! If the engine begins to stall or the saw raises out of the cut slow the forward speed down!
11. For Self-propelled models move the Transmission Engage/Disengage lever fully to the engage position and then slowly push the Speed Control forward until the desired speed is reached. If the engine begins to stall or the saw raises out of the cut slow the forward speed down! The further the lever is pushed the fast the saw will move.
12. When the end of the cut is reached, slowly raise the blade out of the cut by rotating the Hand Wheel Clockwise until the blade is at least one (1) inch above the ground.
13. To place the machine in reverse: move the Speed Control lever towards the back of the machine. Only move the saw in reverse with the blade in the raise position. Always place the speed control back in the neutral position after moving the saw.
14. When moving the saw to a new location be sure that the blade is not touching the ground and always pay close attention to where you are moving and where the blade is at all times.

15. To disengage the transmission, place the Speed Control in the Neutral position and then slide the Transmission Engage/Disengage lever fully to the “Disengage” position.



Caution: Do Not Engage Or Disengage The Transmission While The Machine Is In The Forward Or Reverse Positions!

G. Cutting Technique

Lower the blade into the concrete to the required depth by turning the hand wheel clockwise. Ease the handle slowly forward. Retard the forward pressure if the saw begins to stall.

Note: For deeper cuts (4 inches or more), several cuts should be made in incremental steps of 1-1/2 to 2 inches 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, retard 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 Guide Lines For Sawing:

- Understand and follow all of the instruction in this owner’s manual.
- If wet cutting, turn on the water supply so that there is a minimum of two gallons per minute of water flow!
- In critically hard aggregate more than a single pass may be needed to cut the desired depth.
- Only move the Engage/Disengage lever while the transmission speed control is in the neutral position.
- Move the transmission speed control slowly.
- 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.

- If the saw leads off excessively check the contact between the drive rollers and the rear wheels. Small steering corrections may be made by applying slight pressure to the right or left side of the handle bar. The drive rollers will need to be cleaned from time to time.

H. Lead-Off Adjustment

If the saw tends to pull to one side (lead off), it may be steered by applying slight pressure to the left or right hand handles.

Go to Discount-Equipment.com to order your parts

III. MAINTENANCE

A. Engine Maintenance

Follow the below schedule for engine maintenance. NOTE: Check the Honda Engine manual that came with the engine for any changes to the maintenance schedule. If the charts have any differences, follow the chart in the Honda Engine Manual.

Honda engine (refer to owner's manual for complete maintenance.)

Honda 13HP Engines:

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	
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.

The "Refer to Page" shown references in chart shown above is from the Honda Engine Manual.

Honda 20HP Engines:

MAINTENANCE SCHEDULE

REGULAR SERVICE PERIOD (3) Perform at every indicated month or operating hour interval, whichever comes first.		Each Use	First Month or 20 Hrs	Every 6 Months or 100 Hrs	Every Year or 300 Hrs	Every 2 Years or 500 Hrs	Refer to Page
ITEM							
Engine oil	Check level	○					8
	Change		○	○			8
Engine oil filter	Replace		Every 200 Hrs.				9
Air cleaner	Check	○					9
	Clean			○ (1)			9
	Replace					○ *	
Spark plug	Check-adjust			○			10
	Replace				○		
Spark arrester (applicable types)	Clean			○ (4)			11
Idle speed	Check-adjust				○ (2)		**
Valve clearance	Check-adjust				○ (2)		**
Combustion chamber	Clean		After every 1000 Hrs. (2)				**
Fuel filter	Replace				○ (2)		**
Fuel tube	Check		Every 2 years (Replace if necessary) (2)				**

The "Refer to Page" shown references in chart shown above is from the Honda Engine Manual.

* = Replace the paper filter element only

** = Refer to the Shop Manual

(1) Service more frequently when used in dusty areas

(2) These items should be serviced by your Honda servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.

(3) For commercial use, log hours of operation to determine proper maintenance intervals.

(4) In Europe and other countries where the machinery directive 2006/42/EC is enforced, this cleaning should be done by your servicing dealer.

Failure to follow this maintenance schedule could result in non warrantable failures.

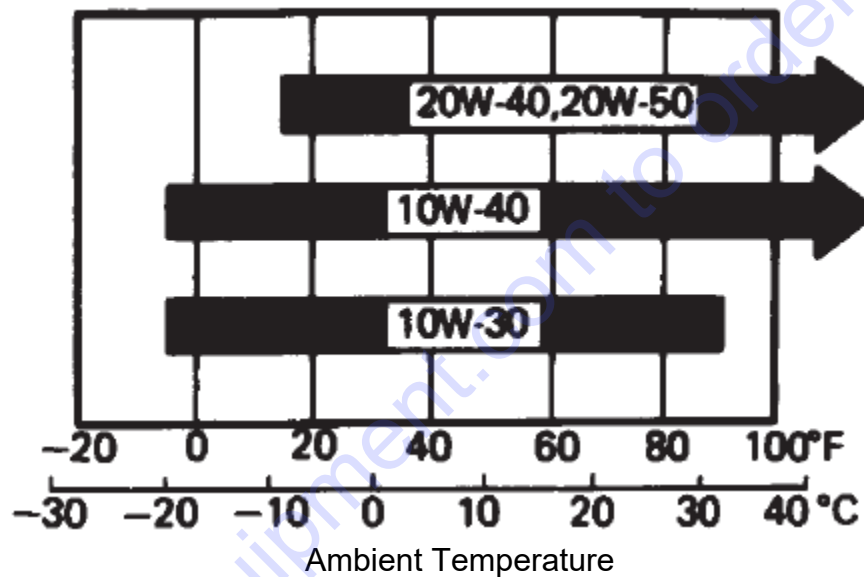
Oil Information For All Honda Engines:

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).

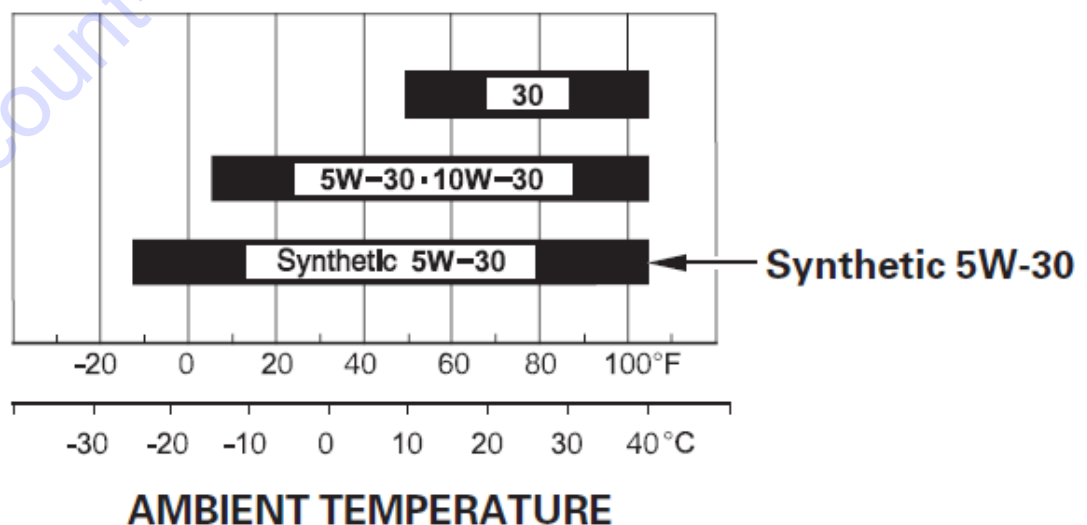
Only use a high-detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for Service Classification SG, SF/CC, CD. Motor oils will show the classification on the container. A SAE viscosity of 10W-30 is recommended by Honda for general, all temperature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

Use 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later (or equivalent). Always check the API service label on the oil container to be sure it includes the letters SJ or later (or equivalent).

Oil Viscosity for Honda 13HP Engines:



Oil Viscosity for Honda 20HP Engines:



Always refer to the engine manual for more detailed information on checking the oil, changing oil, and oil capacity, air filter changes, and fuel type to use. Use only Honda 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 engine manual.

Honda recommends 50 hour oil changes for 20 HP Engines.

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 of the engine cooling fins.
- Every 25 hours (or more often if conditions require) clean the engine pre-cleaner.
- 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

Re lubrication type bearings must be relubricated **daily** to assure long life. The grease used should conform to the NLGI grade two consistencies 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 personal safety must be observed when servicing rotating equipment.** The grease should be pumped in slowly until a slight bead forms 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

C. V-Belts

Warning: Never make adjustments to belts or pulleys while engine is running!

1. The best tension for a belt drive is the lowest tension at which the belts will not slip under full load.
2. Simply take up the drive until the belts are snug in the grooves. Run the drive for about 15 minutes to "seat" the belts. Then impose the peak load. If the belts slip tighten them until they no longer slip at peak load.

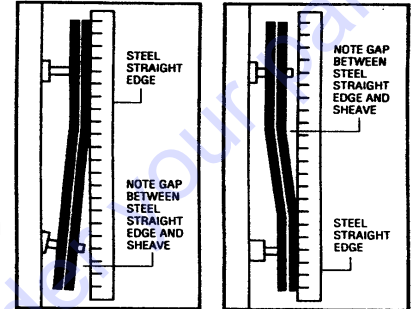


FIGURE 1

FIGURE 2

3. **Remember too much tension shortens belt and bearing life!**
4. Check the belt tension frequently during the first day of operation. Check the belt tension periodically thereafter and make any necessary adjustments.
5. The two most common causes of misalignment are shown in the drawing.
 - a). The engine drive shaft and the blade shaft are not parallel.
See FIGURE ONE
 - b). The pulleys are not located properly on the shafts.
See FIGURE TWO
6. To check alignment, all you need is a steel straight edge.
7. Line up the straight edge along the outside face of both pulleys as shown in the drawing.
8. Misalignment will show up as a gap between the pulley face and the straight edge.
9. Make sure that the width of the outside land is equal on both pulleys.

D. Depth Control

The depth control (raising screw) consists of a threaded rod which feeds into a brass 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.

E. Transmission

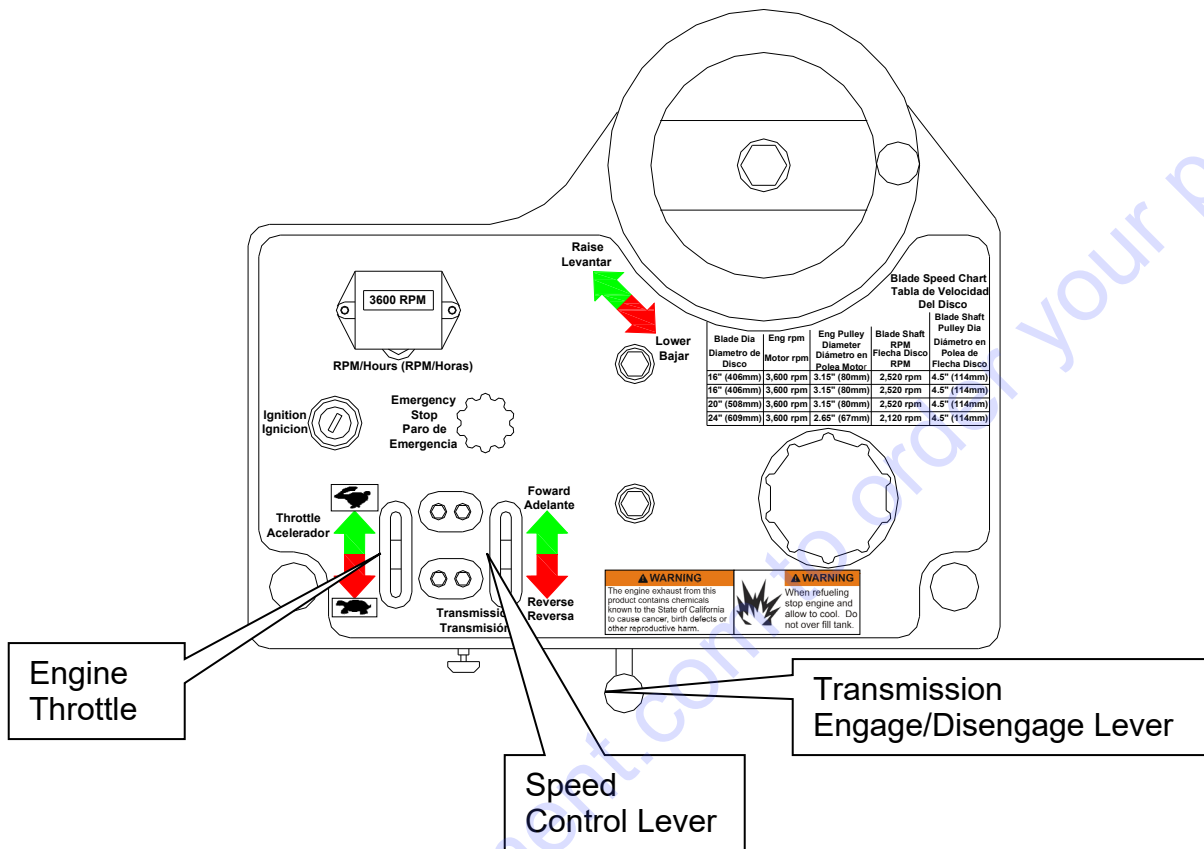
Eaton Model 6 Hydrostatic Transmission:

1. Accurate fluid level readings can only be made when the fluid is cold.
2. If the natural color of the fluid has become black or milky, the transmission has over heated or water containment has occurred. Drain and replace the fluid, check the fan and accessory belts, clean the cooling fins, and also check for any fluid leakage. Do not pressure wash the transmission.
3. Use only the proper viscosity and type of fluid. At normal operating temperatures, the optimum viscosity range is between 80-180 SUS (16-40 CS) and it should never fall below 60 SUS (10 CS).
4. The fluid should be chemically stable, incorporating rust and oxidation inhibitors.

Recommended Fluids For Eaton Model 6 Transmissions	
1.	Mobil Fluid 300
2.	Texaco TL 2209
3.	Dextron B (General Motors)
4.	M2C-33F And M2B-41A (Ford Motor)
5.	Hy-Tran (International Harvester)
6.	10W Straight Viscosity SE, CC, or CD Rated Engine Oil
* 7.	20W Straight Viscosity SE, CC, or CD Rated Engine Oil
8.	30W Straight Viscosity SE, CC, or CD Rated Engine Oil

* Factory Supplied Transmission Fluid

F. Self-Propelling System



Speed Control Lever:

The operator's right hand lever is the speed control lever. Pushing the lever slowly forward will increase the forward speed of the saw. Pulling it to the center will place the saw in neutral. Pulling the saw to the rear of the console (from the neutral) will increase the reverse speed.

The Speed Control Cable may need adjustment over time due to cable stretch. To adjust place the Speed Control:

1. With the machine running and the Transmission Engaged move the Speed Control Lever until the Neutral Position is found.
2. Turn the engine off and disconnect the number one cylinder's spark plug.
3. Loosen the set screw that attaches the Speed Control Cable to the Transmission Control Lever. For the location of the Transmission Control Lever see item #20 in the exploded parts diagrams **C13xx**, and **C20xx Transmission** on page 37. **Do not move the transmission control lever.**
4. Reposition the Speed Control Lever so that the Speed Control Lever is in the center of the slot. **Do not move the transmission control lever.**
5. Tighten the set screw the Speed Control Cable to the Transmission Control Lever. **Do not move the transmission control lever.**
6. Replace the number one cylinder spark plug.

7. Start and test the machine.
8. If any problems are found repeat steps 1 to 7.

Transmission Engage/Disengage Lever:

Transmission Engage/Disengage lever has two (2) positions onto which it can be moved: Engaged position (Down) allows the transmission to operate the rear drive wheels by the means of rear wheel friction rollers, the Disengage position (Up) release the rear wheel friction rollers from the rear drive wheel (the saw can be "Free Wheeled" or moved when repositioning the saw or moving it without running the engine. **NOTE: When parking the saw, it should always be left in the Engaged position, Speed Control Lever in the neutral position, the engine OFF, and perpendicular (right angle) to the grade (hill).**

Drive Wheel Adjustment:

Keep the chain clean and properly adjusted. To change the engagement pressure of the friction rollers, disengage the transmission and reposition loosen the fasteners that mount this lever to the transmission and readjust the friction rollers so that there is a 1/4" clearance (move the transmission platform up or down) between the friction rollers and the rear wheels.

Retighten the mounting hardware.

Clean the rear friction rollers wheels, slurry will build up on the friction rollers and cause the friction rollers to slip. Normally spraying the friction rollers and rear wheels with water will clean out the slurry. Failure to clean the slurry from the Friction Rollers can cause excessive wear to the rear Drive Wheels and is not covered under warranty.

G. ELECTRICAL DIAGRAM C1316SS & C1320SS: 13HP Manual Start Models Only

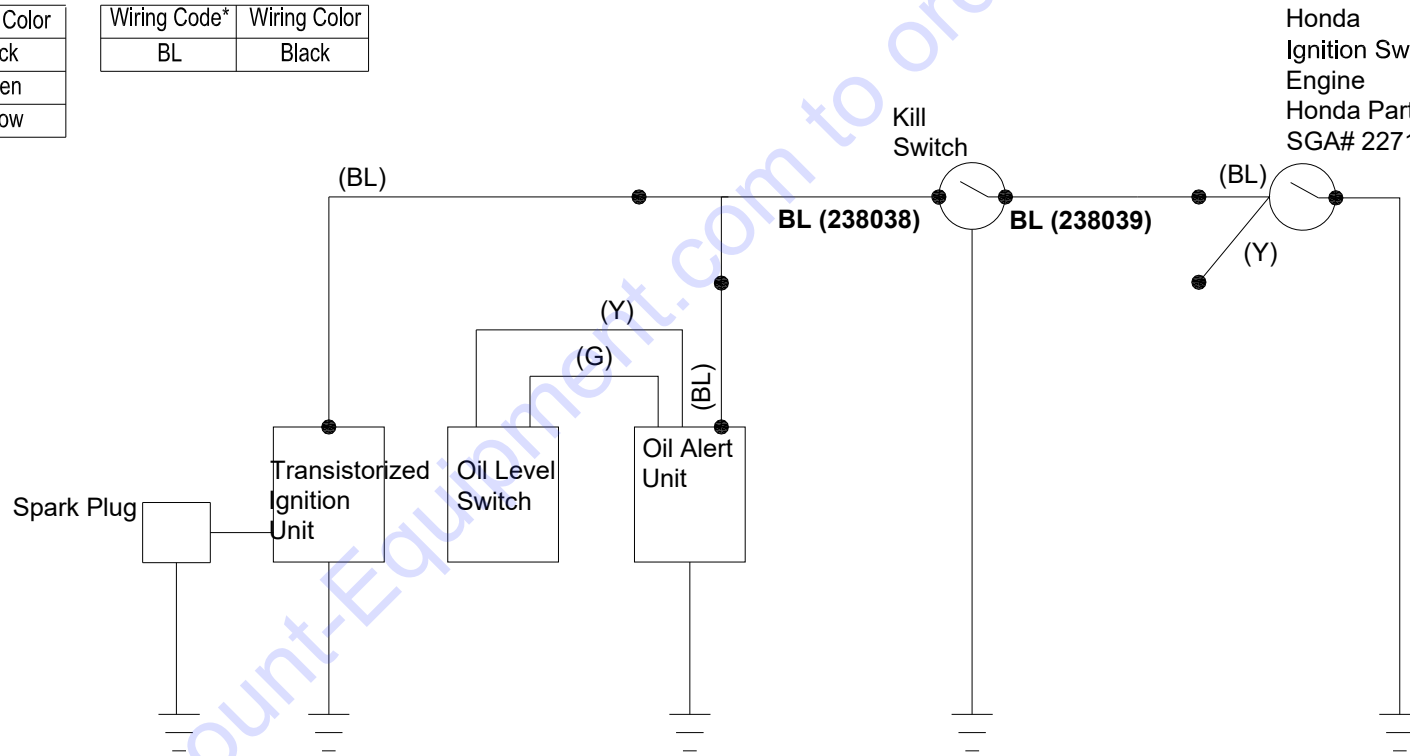
Color Chart

Honda Supplied Wiring

Honda Code	Honda Color
(BL)	Black
(G)	Green
(Y)	Yellow

Wiring Harness

Wiring Code*	Wiring Color
BL	Black



Honda
Ignition Switch Supplied With
Engine
Honda Part# 36100-ZE1-015
SGA# 227115

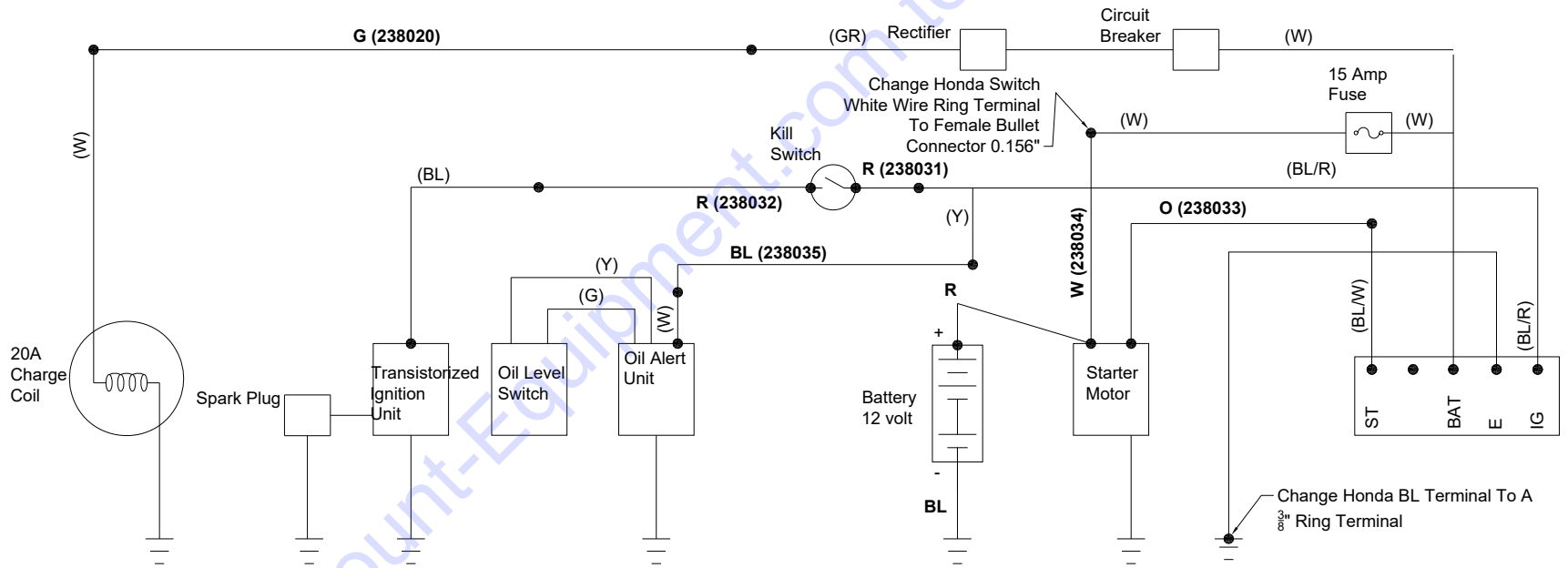
Go to Discount-Equipment.com to order your parts

G. ELECTRICAL DIAGRAM C1316SM & C1320SM:

13HP Electric Start Models Only

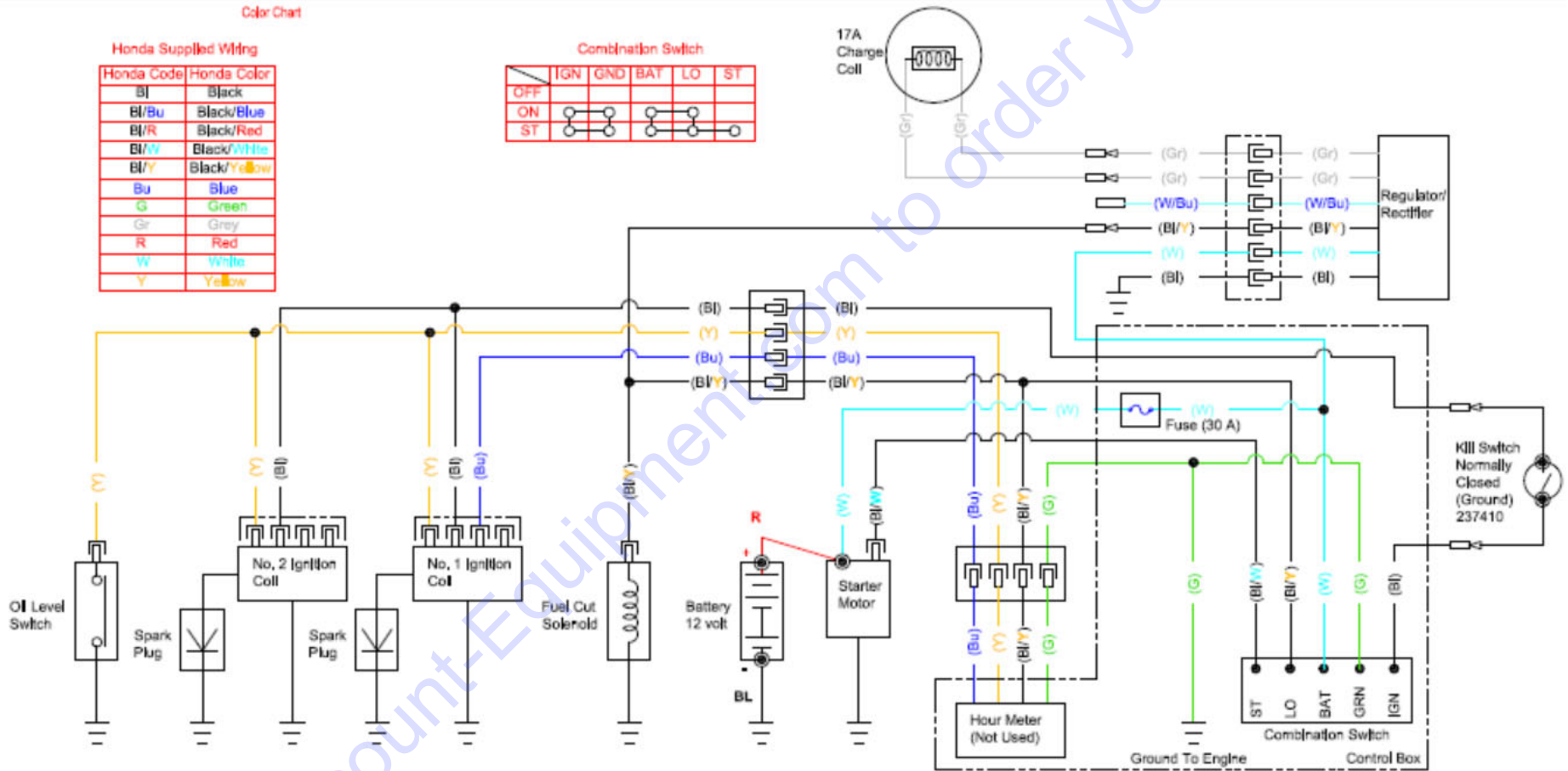
Color Chart

Honda Supplied Wiring		Wiring Harness	
Honda Code	Honda Color	Wiring Code*	Wiring Color
(BL)	Black	BL	Black
(BL/R)	Black/Red	BR	Brown
(BL/W)	Black/White	O	Orange
(G)	Green	R	Red
(Y)	Yellow	W	White
		Y	Yellow



G. ELECTRICAL DIAGRAM C2016SS, C2020SS, C2024SS:

20HP Electric Start Models With Honda GX630TXF2



IV. PARTS LIST SECTION

A. Ordering Information

1. List model number and serial number of machine.
2. List UPC (Universal Product Code) number and description. Do not list 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, UPS, FedEx, best way, etc.

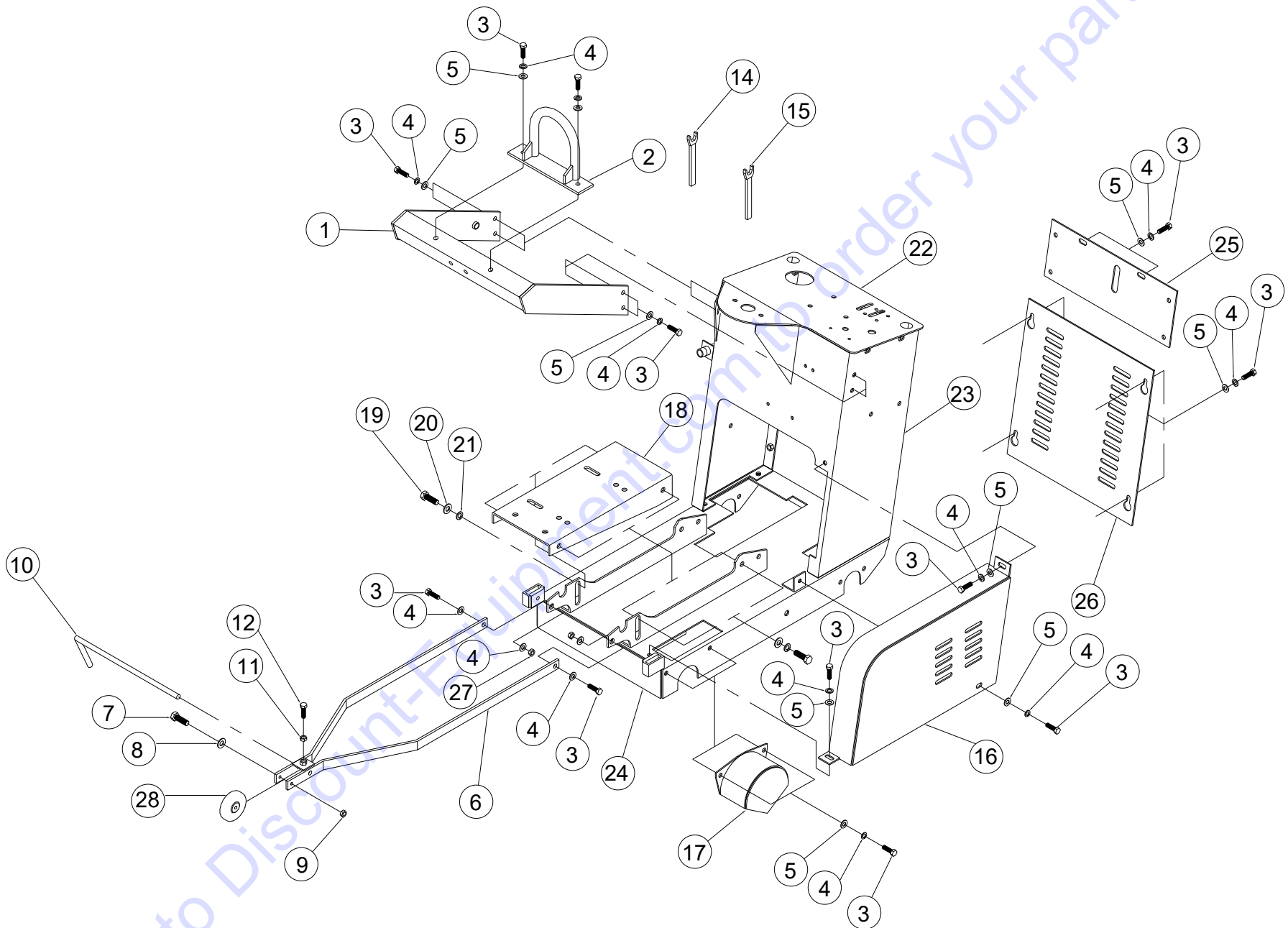
For the nearest Clipper distributor call 254-918-2310

Common Replacement Parts:

UPC	Part No.	Description	Req	Type
70184632530	232036	BELT 3VX375 (4) (SET OF 4) 20HP 16", 20" and 24" ONLY	1	W
70184602472	238088	BELT 3VX335 (4) (SET OF 4) 13HP and 14HP 16" and 20" ONLY	1	W
70184673903	227156	NUT BLADE SHAFT 3/4-16 LH x 1" LONG (OPERATOR'S RIGHT SIDE)	1	S
70184674346	227191	NUT BLADE SHAFT 3/4-16 RH x 1" LONG (OPERATOR'S LEFT SIDE)	1	S
70184673904	227159	TIGHT COLLAR RIGHT SIDE (LEFT HAND THREADS)	1	S
70184674352	227190	TIGHT COLLAR LEFT SIDE (RIGHT HAND THREADS)	1	S
70184674082	227247	LOOSE COLLAR OUTER FLANGE (INCLUDES DRIVE PIN)	2	S
70184674556	227154	PIN DRIVE (GROOVED) 3/8X1	2	S
70184650306	106218	BEARING PIL BLK 1-1/4 2-B	2	W
70184626921	238005	WHEEL 6 X 2 X 3/4 W/ROLLER BEARING (REAR WHEEL SOLD EACH)	2	W
70184626920	238004	WHEEL 5 X 2 X 3/4 W/ROLLER BEARING (FRONT WHEEL SOLD EACH)	2	W
70184628053	238150	ROLLER (1)	2	W
70184650406	210071	BEARING FLANGE 3/4 B	2	W
70184628071	238212	WRENCH OPEN END 1-1/4	1	S
70184628074	238213	WRENCH OPEN END 1-1/2	1	S

NOTE: All Parts Are Sold as Individual (each) Unless Noted Otherwise By A (x) In The Description Where x= The Quantity Included. For example, 232087 BELT 3VX355 (4) four (4) Belts are included. 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. **Order by UPC Number.**

Blades Use Only Clipper Diamond Blades. Contact Discount-equipment for the best blade for the application.



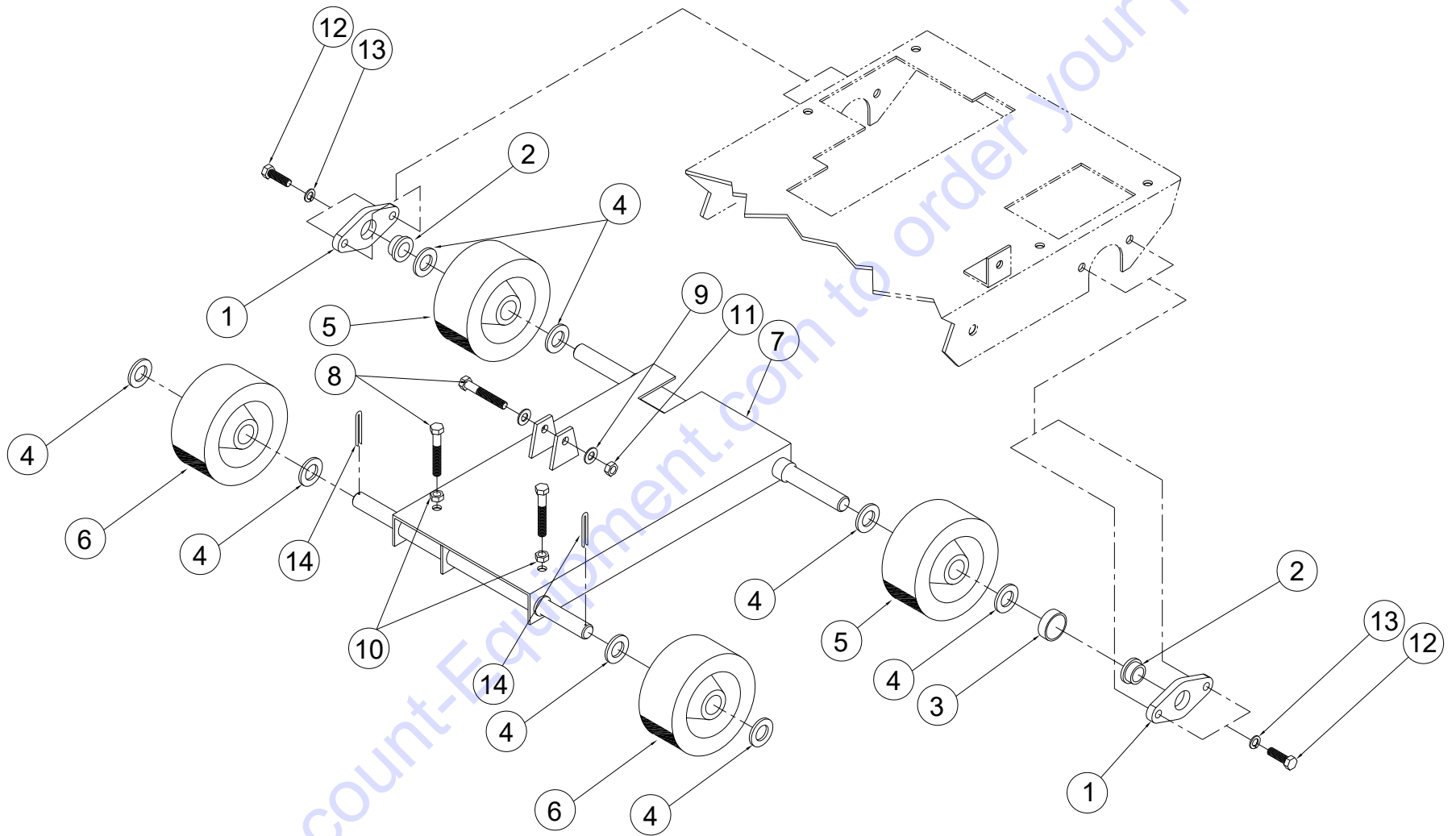
C13xx and C20xx Frame Common

C13xxx and C20xx Frame Common

POS	UPC	Part No.	Description	Req	Type
1	70184628065	238171	LIFT FRAME	1	S
2	70184628066	238175	LIFT FRAME HOOK	1	S
3	70184649901	8041051	SCR 3/8-16 X 1 1/4 HEX HD CAP	23	S
4	70184650149	8177012	WASHER 3/8 SPRING LOCK	23	S
5	70184650123	8172009	WASHER 3/8 SAE	23	S
6	70184628067	238177	FRONT POINTER FRAME	1	S
7	TBA	8041034	SCR 5/16-18 X 2 1/2	1	S
8	70184650121	8172008	WASHER 5/16 SAE	1	S
9	70184650372	8160002	NUT 5/16-18 HEX LOCK	1	S
10	70184628068	238168	POINTER ROD	1	S
11	70184650349	8142003	NUT 3/8-16 HEX	1	S
12	70184649902	8041052	SCR 3/8-16 X 1 1/2 HEX HD CAP	1	S
-NA-	70184628070	238211	ROPE 1/4"ODX16'-3/8"	1	S
14	70184628071	238212	WRENCH OPEN END 1-1/4	1	S
15	70184628074	238213	WRENCH OPEN END 1-1/2	1	S
16	70184628069	238135	GUARD BELT	1	S
17	70184628075	238136	SHAFT GUARD	1	S
18	70184628076	238119	ENGINE BASE	1	S
		238083	ENGINE BASE C2024SS Models ONLY	1	S
19	70184649920	8041096	SCR 1/2-13 X 1 1/2 HEX HD CAP	4	S
20	70184650154	8177014	WASHER 1/2 SPRING LOCK	4	S
21	70184650154	8177014	WASHER 1/2 SAE	4	S
22	70184628077	238115	CONSOLE TOP WELD	1	S
23	70184628078	238114	CONSOLE WELDMENT	1	S
24	70184628079	238101	FRAME C20xx/C13xx/PC20xx	1	S
25	70184628080	238140	CONSOLE TOP REAR COVER	1	S
26	70184628081	238141	CONSOLE REAR COVER	1	S
27	70184650373	8160003	NUT 3/8-16 HEX LOCK	2	S
28	70184630652	238215	WHEEL 3" X 1" X 5/16"	1	W

Type: S = Service Part, W = Wear Part, All Parts Are Sold as Individual (each) Unless Noted
 Otherwise TBA = Contact Discount-equipment for UPC Number

Order by UPC Number



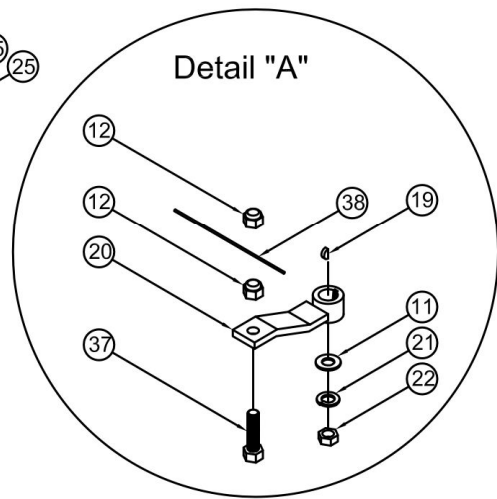
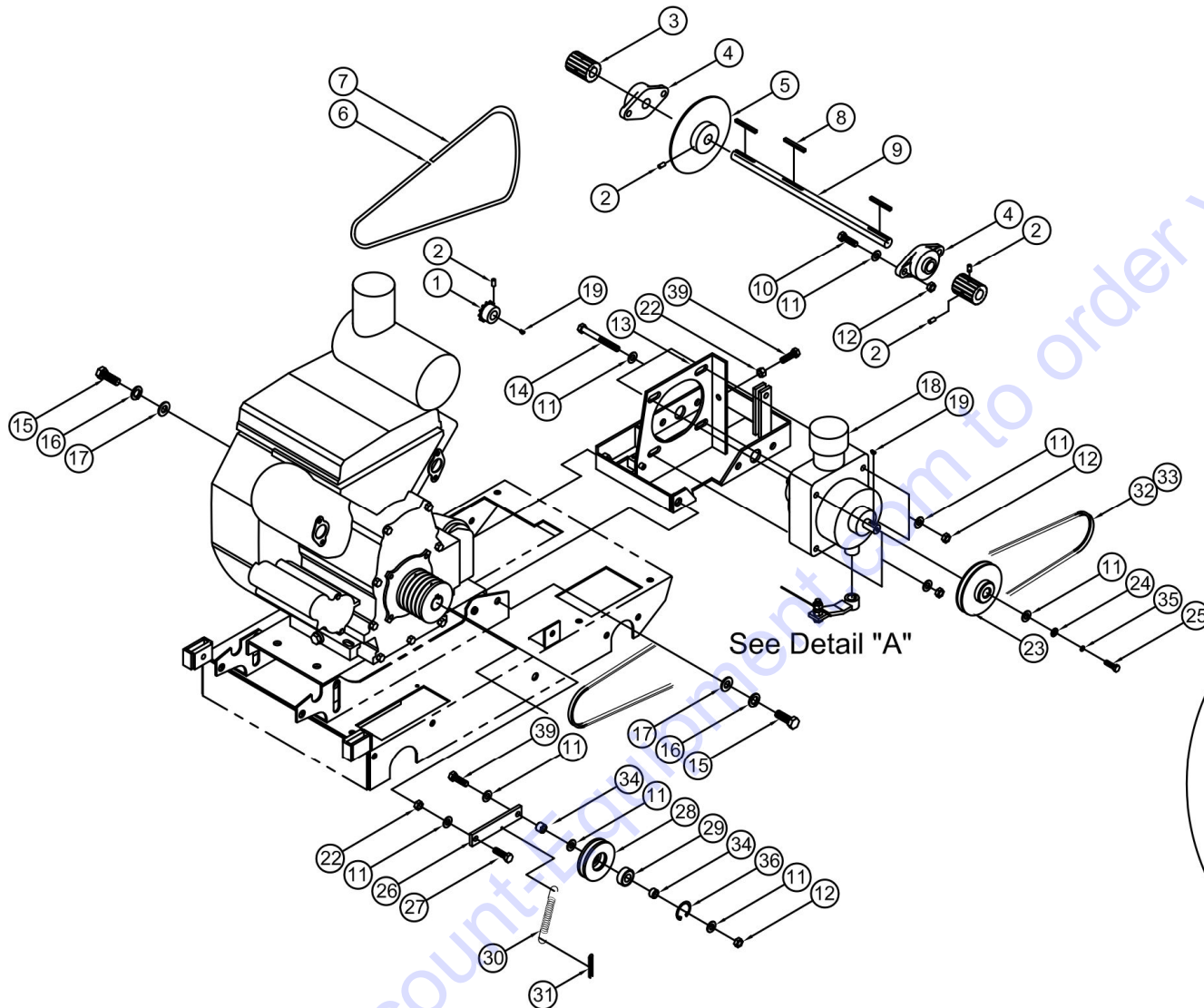
C13xxx and C20xx Raise Axle

C13xx and C20xx Raise Axle

POS	UPC	Part No.	Description	Req	Type
1	70184628082	238134	RAISE AXLE MOUNT	2	S
2	70184628085	238129	REAR AXLE BUSHING	2	W
3	70184628272	238124	REAR WHEEL SPACER	2	S
4	70184650129	8172015	WASHER 3/4 SAE	8	S
5	70184626921	238005	WHEEL 6 X 2 X 3/4 W/ROLLER BEARING (REAR WHEEL SOLD EACH)	2	W
6	70184626920	238004	WHEEL 5 X 2 X 3/4 W/ROLLER BEARING (FRONT WHEEL SOLD EACH)	2	W
7	70184628083	238126	RAISE AXLE WELDMENT	1	S
8	70184649906	8041056	SCR 3/8-16 X 2 1/2 HEX HD CAP	3	S
9	70184650123	8172009	WASHER 3/8 SAE	1	S
10	70184650349	8142003	NUT 3/8-16 HEX	12	S
11	70184650373	8160003	NUT 3/8-16 HEX LOCK	1	S
12	70184649901	8041051	SCR 3/8-16 X 1 1/4 HEX HD CAP	4	S
13	70184650149	8177012	WASHER 3/8 SPRING LOCK	4	S
14	70184674553	227146	Pin Cotter 1/8" X 1-1/2"	2	S

Type: S = Service Part, W = Wear Part, All Parts Are Sold as Individual (each) Unless Noted
Otherwise TBA = Contact Discount-equipment for UPC Number

Order by UPC Number



C13xxx and C20xx Transmission

C13xxx and C20xx Transmission

POS	UPC	Part No.	Description	Req	Type
1	70184678170	229144	SPROCKET 35B12 X 17mm	1	W
2	70184682129	407035	SCR 1/4-20 X 1/4 SET CUP	6	S
3	70184628053	238150	ROLLER (1)	2	W
4	70184650406	210071	BEARING FLANGE 3/4 B	2	W
5	70184628054	238152	SPROCKET 35B48 X 34 B	1	W
6	70184600718	238145	MASTER LINK	1	W
7	70184600717	238146	CHAIN # 35	1	W
8	70184642155	9201086	KEY 3/16 X 2	3	S
9	70184628055	238155	TRANSMISSION JACKSHAFT	1	S
10	70184649901	8041051	SCR 3/8-16 X 1 1/4 HEX HD CAP	4	S
11	70184650123	8172009	WASHER 3/8 SAE	18	S
12	70184650373	8160003	NUT 3/8-16 HEX LOCK	11	S
13	70184628056	238149	TRANSMISSION MOUNT	1	S
14	70184694497	246395	SCR 3/8-16 X 3 1/2 HEX HD CAP (Pack of 10)	4	S
15	70184649920	8041096	SCR 1/2-13 X 1 1/2 HEX HD CAP	4	S
16	70184650154	8177014	WASHER 1/2 SPRING LOCK	4	S
17	70184650124	8172011	WASHER 1/2 SAE	4	S
18	70184654757	106344	TRANSMISSION M6	1	S
-NA-	70184677302	106344A	RESERVOIR CAP MODEL 6 TRANS	1	S
-NA-	70184677303	106344B	RESERVOIR MODEL 6 TRANS.	1	S
19	70184649715	9203009	# 3 WOODRUFF KEY	3	S
20	70184628057	238154	TRANSMISSION CONTROL LEVER	1	S
21	70184650149	8177012	WASHER 3/8 SPRING LOCK	1	S
22	70184650149	8142003	NUT 3/8-16 HEX	3	S
23	70184628062	238151	PULLEY 4 O.D. X 17mm 1G 3VX	1	S
24	70184650120	8172007	WASHER 1/4 SAE	1	S
25	TBA	8041007	SCR 1/4-20 X 3/4 HEX HD CAP	1	S
26	70184628063	238131	IDLER ARM	1	S
27	70184649902	8041052	SCR 3/8-16 X 1 1/2 HEX HD CAP	1	S
28	70184628064	238006	PULLEY 3 O.D. X 7/8 1G 3VX	1	S
29	70184626732	237408	BEARING 99R10	1	W
30	70184628270	238221	SPRING 2 1/2	1	W
31	70184674553	227146	PIN 1/8 X 1 1/2 COTTER	1	S
32	70184660669	109799	BELT 3VX425(1) FOR 20 HP ONLY	1	W

Type: S = Service Part, W = Wear Part, All Parts Are Sold as Individual (each) Unless Noted

Otherwise TBA = Contact Discount-equipment for UPC Number. **Order by UPC Number**

C13xxx and C20xx Transmission

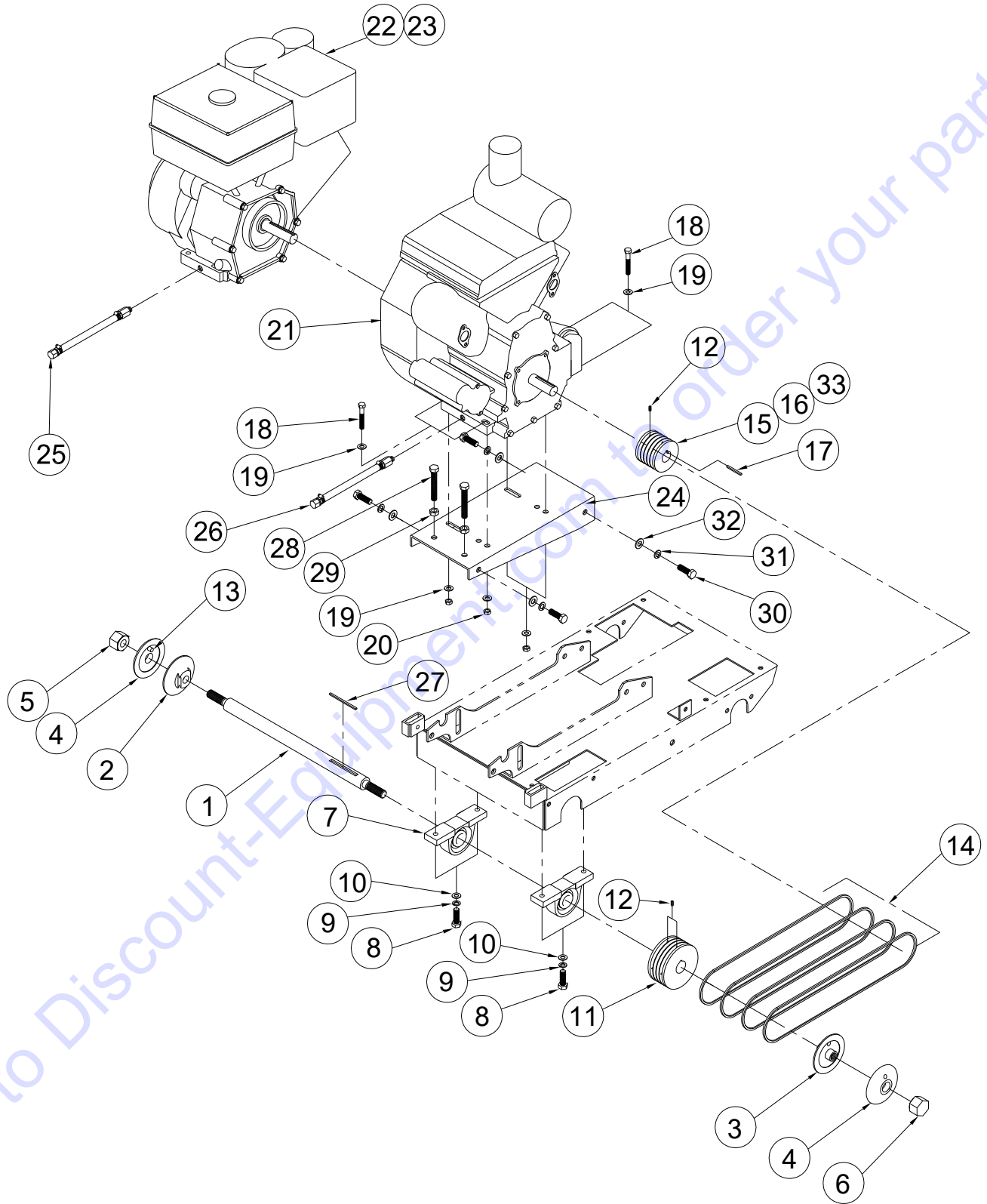
POS	UPC	Part No.	Description	Req	Type
33	70184660324	109769	BELT 3VX450(1) FOR 13 HP ONLY	1	W
34	70184693853	238236	BUSHING SPACER	2	S
35	70184650144	8177010	WASHER 1/4 SPRING LOCK	1	S
36	70184694045	237388	INTERNAL RETAINING RING 1 5/16"	1	S
37	TBA	238258	CONTROL LEVER PIN	1	S
38	70184645806	232387	TRANSMISSION CONTROL	1	S
39	70184649904	8041054	SCR 3/8-16 X 2 HEX HD CAP	2	S

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C13xxx and C20xx Blade Shaft & Engine Group



C13xxx and C20xx Blade Shaft & Engine Group

POS	UPC	Part No.	Description	Req	Type
1	70184628084	238179	BLADE SHAFT	1	S
2	70184673904	227159	TIGHT COLLAR RIGHT SIDE (LEFT HAND THREADS)	1	S
3	70184674352	227190	TIGHT COLLAR LEFT SIDE (RIGHT HAND THREADS)	1	S
4	70184674082	227247	LOOSE COLLAR OUTER FLANGE (INCLUDES DRIVE PIN)	2	S
5	70184673903	227156	NUT BLADE SHAFT 3/4-16 LH (OP RIGHT SIDE)	1	S
6	70184674346	227191	NUT BLADE SHAFT 3/4-16 RH (OP LEFT SIDE)	1	S
7	70184650306	106218	BEARING PIL BLK 1-1/4 2-B	2	W
8	70184649919	8041095	SCR 1/2-13 X 1 1/4 HEX HD CAP	4	S
9	70184650154	8177014	WASHER 1/2 SPRING LOCK	4	S
10	70184650124	8172011	WASHER 1/2 SAE	4	S
11	70184628173	238015	PULLEY 4.5OD X 1.125B 4G 3VX	1	S
12	70184682130	407036	1/4-20 X 3/8 SOCKET SET SCREW	4	S
13	70184674556	227154	PIN DRIVE (GROOVED) 3/8X1	2	S
14	70184632530	232036	BELT 3VX375 (4) (SET OF 4) 20HP 16", 20" and 24" (C2016SS, C2020SS, & C2024SS ONLY)	1	W
14	70184602472	238088	BELT 3VX335 (4) (SET OF 4) 13HP and 14HP 16" and 20" (ALL 13HP Honda and 14HP Kohler models)	1	W
15	70184628174	238013	Pulley 3.15 OD x 1.00 ID 5G 3VX (13HP Only)	1	S
16	70184628176	238011	Pulley 3.15 OD x 1.125 ID 5G 3VX (20HP 16" & 20")	1	S
17	70184649710	9201125	KEY 1/4 X 2 1/2	1	S
18	70184649904	8041054	SCR 3/8-16 X 2 HEX HD CAP	4	S
19	70184650123	8172009	WASHER 3/8 SAE	8	S
20	70184650373	8160003	NUT 3/8-16 HEX LOCK	4	S
21	70184643693	232369	ENGINE 20 HP (GX630TXF2)	1	S
22	70184623818	084044	ENGINE 13 HP ELECTRIC ST (GX390UT1QAE2)	1	S
23	70184671620	123327	ENGINE 13 HP MANUAL ST (GX390K1QXC9)	1	S
24	70184628076	238119	ENGINE BASE C13xxSS, C13xxSM, C2020SS, and C2020SS Models	1	S
		238083	ENGINE BASE C2024SS Models ONLY	1	S
-NA-	TBA	-NA-	Air Filter Donaldson P812575 20HP ONLY	1	W
-NA-	TBA	-NA-	Oil Filter Honda 15400-PLM-A01PE 20HP ONLY	1	W
25	70184628179	238057	OIL DRAIN HOSE ASSY 13HP	1	S
26	70184628180	238058	OIL DRAIN HOSE ASSY 20HP	1	S
27	70184649709	9201123	KEY 1/4 X 2-1/4	1	S

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C13xxx and C20xx Blade Shaft & Engine Group

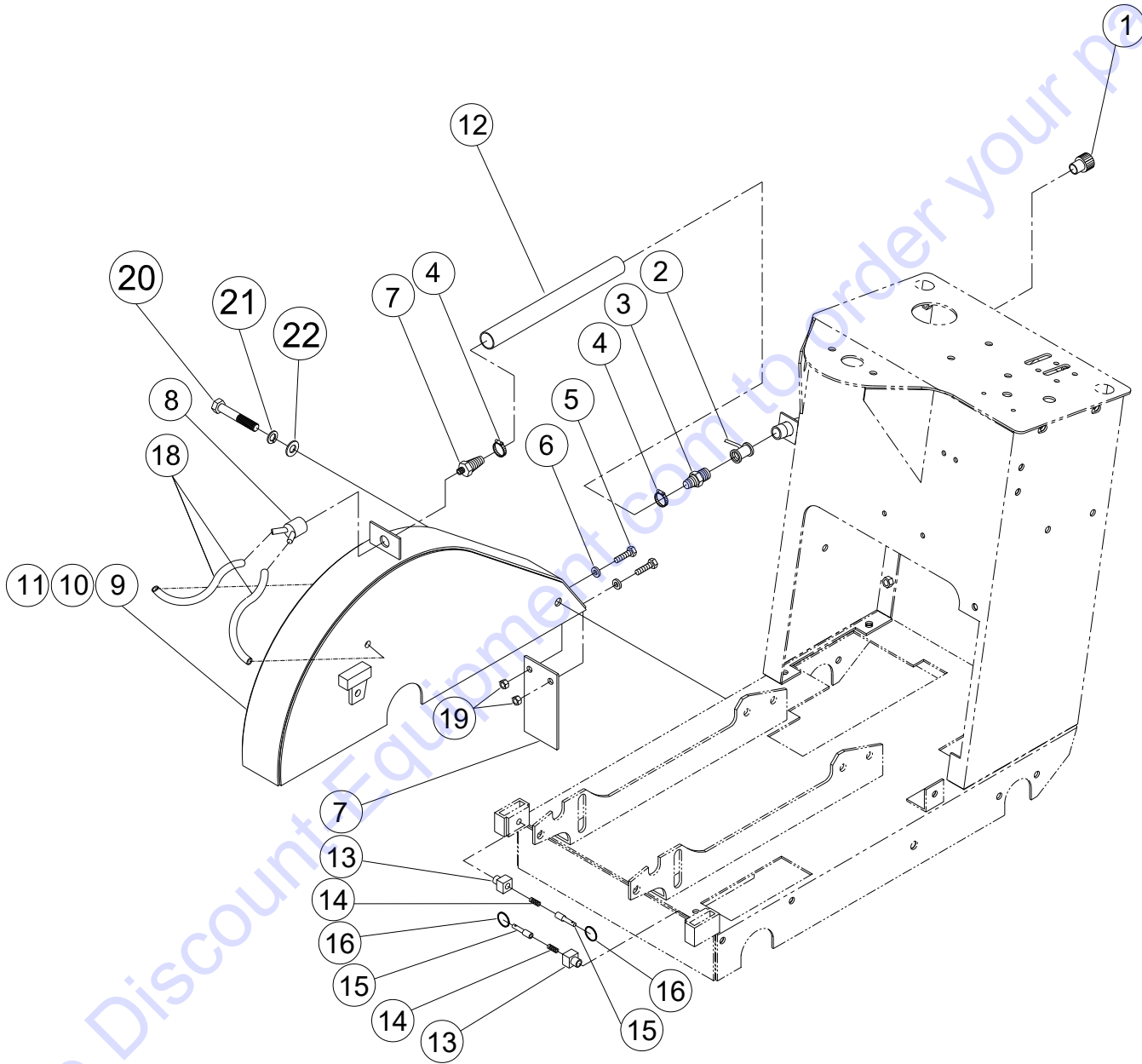
POS	UPC	Part No.	Description	Req	Type
28	70184678162	229133	SCR 1/2-13 X 4 FULL THREAD HEX HEAD CAP	2	
29	70184650358	8143005	NUT 1/2-13 JAM	2	S
30	70184649920	8041096	SCR 1/2-13 x 1-1/2 HEX HEAD CAP	4	S
31	70184650154	8177014	WASHER 1/2 SPRING LOCK	4	S
32	70184650124	8172011	WASHER 1/2 SAE	4	S
33	70184628177	238012	Pulley 2.65 OD x 1.125 ID 5G 3VX (20HP 24")	1	S
-NA-	70184643694	232370	MUFFLER 20HP HONDA	1	S

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C13xxx and C20xx Blade Guard and Water System Group

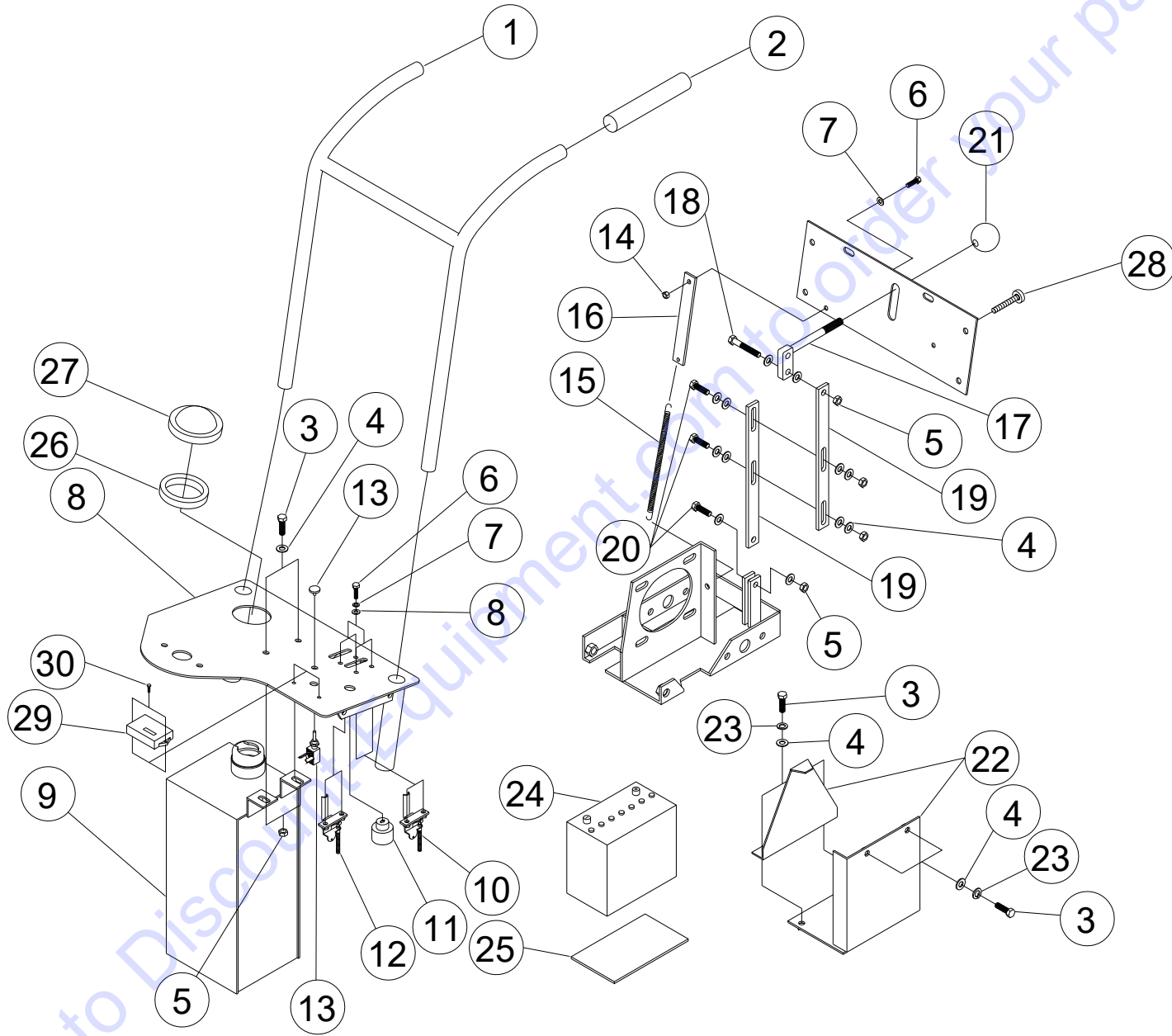
C13xx and C20xx Blade Guard and Water System Group

POS	UPC	Part No.	Description	Req	Type
1	70184659115	N1D0082	HOSE SWIVEL	1	W
2	70184659097	N1C0021	WATER VALVE 1/2"	1	W
3	70184626501	9602012	HOSE BARB 1/2" x 1/2"MPT	1	S
4	70184659232	N1C0113	HOSE CLAMP	2	S
5	70184649879	8041006	SCR 1/4-20 X 1 HEX HD CAP	2	S
6	70184650120	8172007	WASHER 1/4 SAE	2	S
7	70184650465	9600014	FIT BARB HOSE 1/4MPTX1/2	2	S
8	70184648715	72286	"Y" FITTING x 1/4FPT	1	W
9	70184628495	238144	BLADE GUARD 16" (BLADE GUARD ONLY)	1	S
10	70184628496	238142	BLADE GUARD 20" (BLADE GUARD ONLY)	1	S
11	70184628497	238143	BLADE GUARD 24" (BLADE GUARD ONLY)	1	S
12	70184683507	0042521	TUBE 1/2ID X 3/4OD 48"LNG (USE 36")	1	W
13	70184628498	238225	GUARD LOCK	2	S
14	70184628499	238224	SPRING GUARD LOCK	2	S
15	70184628500	238222	PIN GUARD LOCK	2	S
16	70184628501	238223	RING GUARD LOCK	2	S
17	70184650371	8160001	NUT 1/4-20 HEX LOCK	2	S
18	70184681299	82998	NOZZEL WATER (2) (Set of Two (2) Nozzles)	1	W
19	70184628185	238137	SPLASH GUARD (FLAP OR MUD FLAP) ONLY	1	W
20	70184649929	8041107	SCR 1/2-13 UNC x 4-1/2 HEX HEAD CAP	1	S
21	70184650154	8177014	WASHER 1/2 SPRING LOCK	2	S
22	70184650124	8172011	WASHER 1/2 SAE	2	S

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Order by UPC Number

C13xxx and C20xx Controls and Console Group



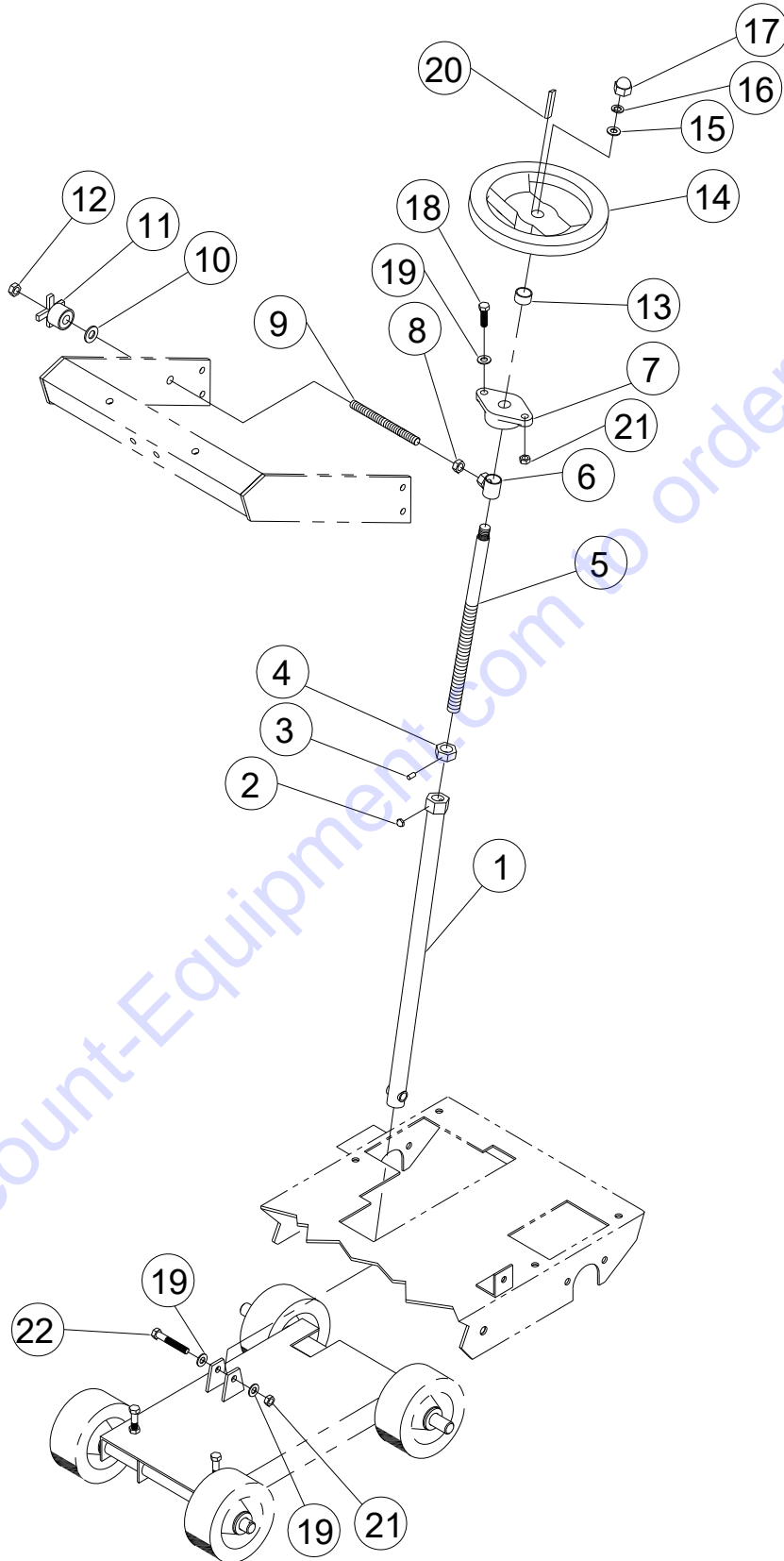
C13xx and C20xx Controls and Console Group

POS	UPC	Part No.	Description	Req	Type
1	70184627887	238120	HANDLE BAR	1	S
2	70184674393	227101	HANDLE BAR GRIP	2	W
3	70184649901	8041051	SCR 3/8-16 X 1 1/4 HEX HD CAP	4	S
4	70184650123	8172009	WASHER 3/8 SAE ZN PLT	4	S
5	70184650373	8160003	NUT 3/8-16 HEX LOCK	6	S
6	70184649879	8041006	SCR 1/4-20 X 1 HEX HD CAP	5	S
7	70184650144	8177010	WASHER 1/4 SPRING LOCK	5	S
8	70184650120	8172007	WASHER 1/4 SAE	5	S
9	70184628186	238130	FUEL TANK (20HP ONLY)	1	S
10	70184645807	232388	THROTTLE CABLE (ALL Honda models Only)	1	W
	70184632425	232468	THROTTLE CONTROL 52-1/2" C1420SS (Kohler)	1	W
11	70184647993	232429	IGNITION SWITCH HONDA 20HP GX630	1	W
11	70184674394	227115	SWITCH IGNITION 13HP HONDA (13HP MAN.)	1	W
11	70184680903	229216A	SWITCH IGNITION 13HP ES HONDA (13HP EL)	1	W
12	70184645806	232387	TRANSMISSION CONTROL 31"	1	W
13	70184628277	238229	EMERGENCY KILL SWITCH 20HP HONDA ONLY	1	W
	70184602385	247307	EMERGENCY KILL SWITCH 13HP HONDA ONLY	1	S
14	70184650371	8160001	NUT 1/4-20 HEX LOCK	1	S
15	70184628278	238203	SPRING 8"	1	W
16	70184628447	238204	TRANSMISSION SPRING BAR	1	S
17	70184628448	238157	ENGAGEMENT LEVER	1	S
18	70184649904	8041054	SCR 3/8-16 X 2 HEX HD CAP		S
19	70184628449	238156	TRANSMISSION ENGAGE LEVER	2	S
20	70184649902	8041052	SCR 3/8-16 X 1 1/2 HEX HD CAP	1	S
21	70184628279	238202	BALL KNOB	1	S
22	70184628187	238160	BATTERY TRAY (ELECTRIC START ONLY)	1	S
23	70184650149	8177012	WASHER 3/8 SPRING LOCK	6	S
24	-NA-	-NA-	BATTERY CB-16 (SOURCE LOCALLY)	1	W
25	70184628280	238331	BATTERY MOUNT PAD (ELECTRIC START)	1	S
26	70184659182	N1C0016	FUEL TANK GROMMET (20HP ONLY)	1	S
27	70184626971	238009	FUEL TANK CAP 20HP ONLY	1	S
28	70184628450	238209	CHOKE CABLE (20HP ONLY)	1	W
29	70184682239	232080	TACHOMETER	1	W
30	70184627236	8042007	SCR No. 10-24 X 1 SOCKET HD	2	S

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C13xxx and C20xx Depth Adjustment Group



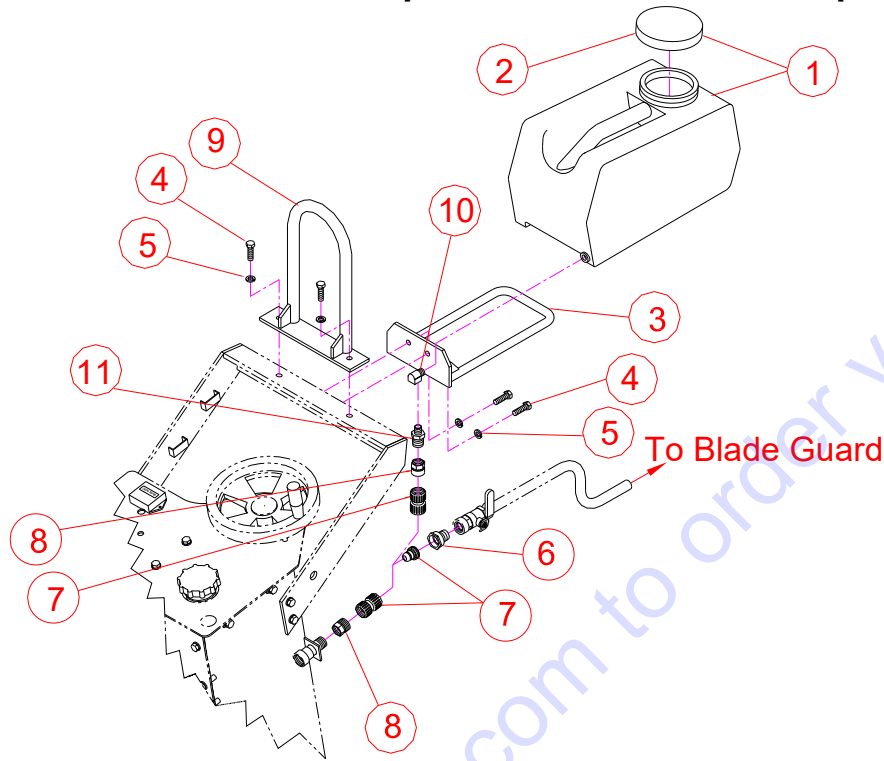
C13xxx and C20xx Depth Adjustment Group

POS	UPC	Part No.	Description	Req	Type
1	70184628181	238164	DEPTH SCREW TUBE	1	S
2	70184628182	238234	GREASE ZERK 1/8 x 11/16	1	S
3	70184682129	407035	SCR 1/4-20 X 1/4 SET CUP	1	S
4	70184628265	238163	NUT 3/4-10 HEX HEAD	1	S
5	70184628183	238165	RAISE SCREW	1	S
6	70184628274	238166	DEPTH STOP BUSHING	1	S
7	70184650406	210071	BEARING FLANGE 3/4 B	1	W
8	70184650358	8143005	NUT 1/2-13 HEX HEAD	1	S
9	70184628501	238223	DEPTH STOP ROD 1/2-13 X 7"	1	S
10	70184650154	8177014	WASHER 1/2 SAE	1	S
11	70184659262	N1C0078	DEPTH STOP HANDLE	1	S
12	70184650375	8160005	NUT 1/2-13 HEX LOCK	1	S
13	70184628276	238167	HAND-WHEEL SPACER	1	S
14	70184628444	238169	HAND-WHEEL	1	S
15	70184650127	8172013	WASHER 5/8 SAE	1	S
16	70184650156	8177016	WASHER 5/8 SPRING LOCK	1	S
17	70184628184	238235	ACORN NUT 5/8-11	1	S
18	70184649902	8041052	SCR 3/8-16 X 1 1/2 HEX HD CAP	2	S
19	70184650123	8172009	WASHER 3/8 SAE ZN PLT	4	S
20	70184662750	9201080	KEY 3/16 X 1 1/4	1	S
21	70184650149	8177012	WASHER 3/8 SPRING LOCK	4	S
22	70184649906	8041056	SCR 3/8-16 X 2 1/2 HEX HD CAP	1	S

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C13xxx and C20xx Optional Water Tank Group



POS	UPC	Part No.	Description	Req	Type
-NA-	70184628014	238001	WATER TANK KIT (Includes POS 1, and 3 to 12)	1	S
1	00310486962	00310486962	WATER TANK W/CAP	1	W
2	00310006560	82794	CAP FOR WATER TANK	1	S
3	70184628015	238174	BRACKET FOR WATER TANK	1	S
4	70184649901	8041051	SCR 3/8-16 UNC x 1-1/4 HEX HEAD CAP	4	S
5	70184650149	8177012	WASHER 3/8 SPRING LOCK	4	S
6	70184628018	238065	REDUCER FIT 3/4FGH x 1/2MPT	1	S
7	70184628019	238066	COUPLER QUICK DETACH (Includes Male & Female QD Couplers)	2	S
8	70184628020	238067	REDUCER FIT 3/4MGH x 1/2FPT	2	S
9	70184628016	238173	LIFTING HOOK FOR WATER TANK C13xx/C20xx	1	S
10	70184682454	83218	REDUCING BUSHING 1/2MPT X 1/4MPT	1	S
11	70184650452	9499001	ELBOW 1/4MPT x 1/4FPT STREET BRASS	1	S

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NOTE: 238001 Water Tank Kit Includes: 83357 (Water Tank with Cap), 238174 (Bracket for Water Tank), 238173 (Lifting Hook for Water Tank), 238065 (Reducer Fitting 3/4 FGH x 1/2MPT), 238066 (Coupler Quick Detach Male & Female Kit), 238067 (Reducer Fitting 3/4 MGH x 1/2 FPT), 83218 (Reducing Bushing 1/2 MPT x 1/4 MPT), 8041051 (x4) (Screw 3/8-16 x 1-1/4 Hex Head Cap), 8177012 (x4) (Washer 3/8 Spring Lock), and 9499001 Elbow 1/4MPT x 1/4FPT Street Brass

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