

MK-20 SERIES
OWNER'S MANUAL,
OPERATING INSTRUCTIONS
& PARTS LIST

Gas Powered
Concrete Saw



Revision 304	05.2013
Manual Part# 156777	

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

INTRODUCTION

Congratulations on your purchase of a MK-20 Series. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, your MK-20 Series should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-20 Series safely and correctly. Please take the time to familiarize yourself with the MK-20 Series by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning your MK-20 Series, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

MODEL NUMBER:	
SERIAL NUMBER:	
PURCHASE PLACE:	
PURCHASE DATE:	

NOTE: For your (1) one year warranty to be effective, complete the warranty card (including the Serial Number) and mail it in as soon as possible.

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Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Precaution and Operating Instructions could result in injury to yourself and others.

This Operation Manual has been developed to provide complete instructions for the safe and efficient operation of the MK-20 Series. For additional instruction concerning engine operations and care refer to the engine manufacturers instructions.

Before using this saw, ensure that the person operating the equipment has read and understands all instructions in this manual.

Descriptions, illustrations, and photos are as accurate as possible at the time of publication. Photos may include optional equipment or accessories and may not show all models covered by this manual.

SAFETY MESSAGE / ALERT SYMBOLS

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol () and one of three words: **DANGER**, **WARNING**, or **CAUTION**.

DANGER

You **WILL** be **KILLED** or **SERIOUSLY INJURED** if you do not follow directions.

WARNING

You **CAN** be **KILLED** or **SERIOUSLY INJURED** if you do not follow directions.

CAUTION

You **CAN** be **INJURED** if you do not follow directions. It may also be used to alert against unsafe practices.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury. Other important messages are preceded by the word **NOTICE**.

NOTICE

You can cause **PROPERTY DAMAGE** to your machine if you don't follow directions.

The safety labels should be periodically inspected and cleaned by the user to maintain good legibility at a safe viewing distance. If the label is worn, damaged or illegible, it should be replaced. Contact MK Diamond or your dealer for replacement.

DAMAGE PREVENTION AND INFORMATION MESSAGES

A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information messages convey information that pertains to the equipment being used. Each message will be preceded by the word **NOTE**, as in the example below.

NOTE: Equipment and/or property damage may result if these instructions are not followed.

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS

SAFETY PRECAUTIONS

In order to prevent injury, the following safety precautions and symbols should be followed at all times!

GENERAL SAFETY



DO NOT operate or service this equipment before reading this entire manual.

This equipment should not be operated by persons under 18 years of age.

NEVER operate this equipment when not feeling well due to fatigue, illness or taking medicine.

NEVER operate this equipment under the influence of drugs or alcohol.

Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.

ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.

KEEP GUARDS IN PLACE



In order to prevent injury, keep guards in place and in working order at all times.

EXPLOSIVE FUEL!



Gasoline is extremely flammable, its vapors can explode if ignited; store only in approved containers, in well-ventilated, unoccupied buildings and away from sparks or flames. Do not fill the fuel tank while the engine is running or hot. Spilled fuel could ignite if it contacts hot parts or sparks from ignition. Do not start the engine near spilled fuel. Never use gasoline as a cleaning agent. Never operate the machine in an explosive atmosphere.

LETHAL EXHAUST GASES



Engine exhaust gasses contain poisonous carbon monoxide, an odorless colorless gas that can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.

ENGINE OVER-SPEED



Never tamper with the governor components or settings to increase the maximum speed of the machine. Severe personal injury and/or equipment damage could result if the equipment is operated speeds above design maximum.

ACCIDENTAL STARTS

Before starting the engine, be sure the ON/OFF switch is in the “OFF” position to prevent accidental starting. Place the ON/OFF switch in the OFF position before performing any service operation.

ROTATING OR MOVING PARTS

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate a power tool with shrouds or guards removed.

HOT PARTS

Engine components can become extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running, or immediately after it is turned off. Never operate the engine with heat shields removed.

ALWAYS USE SAFETY GLASSES

Safety glasses should always be worn when working around power tools. Everyday eye-glasses only have impact resistant lenses and may not prevent eye injury; they are NOT safety glasses.

ALWAYS USE RESPIRATORY PROTECTION

Exhaust gases may be harmful if inhaled. Do not operate gas-powered equipment in enclosed spaces. Respiratory protection should be worn when operating gas powered equipment.

ALWAYS USE HEARING PROTECTION

To reduce the possibility of hearing loss, always use hearing protection when operating equipment.

REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

KEEP WORK AREA CLEAN

Cluttered work areas and benches invite accidents.

DO NOT USE IN DANGEROUS ENVIRONMENTS

Do not operate equipment in dangerous environments. Always keep the work area well lighted.

KEEP CHILDREN AWAY

All visitors and children should be kept a safe distance from work area.

MAKE WORKSHOP KID PROOF

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

DO NOT FORCE THE TOOL

A power tool will do a job better and safer operating at the rate for which it was designed.

USE THE RIGHT TOOL

Do not force a tool or an attachment, to do a job that it was not designed to do.

WEAR PROPER APPAREL

Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

SECURE WORK

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

DO NOT OVERREACH

Keep proper footing and balance at all times by not overreaching.

MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for the best and safest performance. Always follow maintenance instructions for lubricating and when changing accessories.

SHUTDOWN TOOL

The saw should always be shutdown before servicing or when changing accessories such as blades, bits, cutters, etc...

USE RECOMMENDED ACCESSORIES

Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury.

NEVER STAND ON THE TOOL

Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.

NEVER LEAVE TOOL RUNNING UNATTENDED – TURN POWER OFF

Do not leave a tool until it comes to a complete stop. Always turn a power tool OFF when leaving the work area, or, when a cut is finished.

CHECK FOR DAMAGED PARTS

Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function safely. Always check moving parts for proper alignment or binding. Check for broken parts, mountings and all other conditions that may affect the operation of the power tool. A guard or any damaged part should be properly repaired or replaced.

DIRECTION OF FEED

Always feed work into a blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

SILICA DUST WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow respiratory precautions.

Use appropriate NIOSH-approved respiratory protection where dust hazard may occur. Paper masks or surgical masks without a NIOSH approval number are not recommended because they do little to protect the worker. For more information about respirator programs, including what respirators have received NIOSH approval as safe and effective, please visit the NIOSH website at:
<http://www.cdc.gov/niosh/topics/respirators>

Observe OSHA regulations for respirator use (29 C.F.R. §1910.134).
Visit <http://www.osha.gov> for more information.

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, cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:
<http://www.osha.gov/dsg/topics/silicacrystalline/index.html>
<http://www.cdc.gov/niosh/docs/96-112/>
<http://oehha.ca.gov/prop65/law/P65law72003.html>
<http://www.dir.ca.gov/Title8/sub4.html>

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 dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial vacuum cleaner.

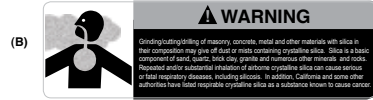
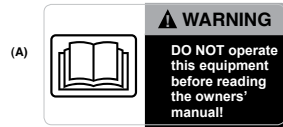
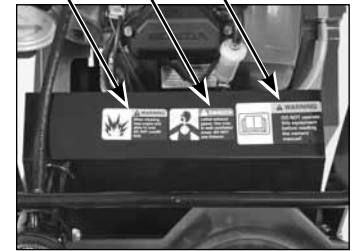
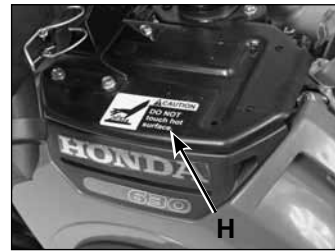
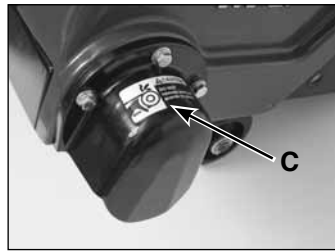
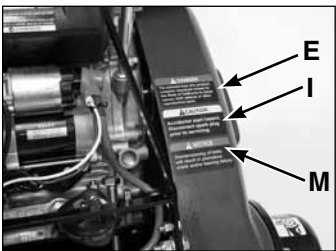
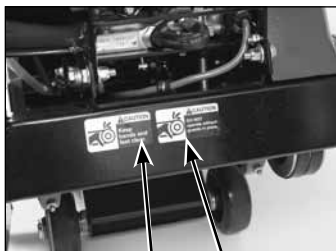
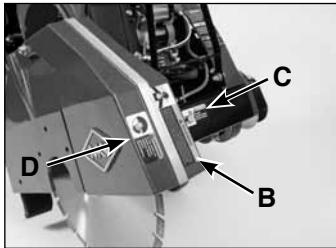


WARNING

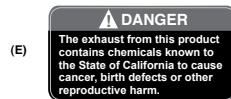
Sawing and drilling generate dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200).

OPERATION & SAFETY DECALS

The MK-20 Series Concrete Saw is equipped with a number of safety decals. These decals are provided for operator safety and maintenance information. Should any of these operation or safety decals become unreadable, replacements can be obtained by calling (800) 262-1575.



(3 of them)



Concrete Saw Warning Label Sheet Part# 166009



Location

Description

Location	Description
A	Frame Read Manual
B	Frame Proposition 65, Dust Warning
C	Shaft Cover & Belt Guard Guards in Place
D	Blade Guard Replace Blade Guard
E	Gas Tank/Top Exhaust/Cancer
F	Gas Tank/Top Lethal Exhaust
G	Gas Tank/Top Refueling
H	Gas Tank Hot Surface
I	Blade Guard Accidental Start
J	Frame/Back Service (Not Shown)
K	Frame/Front Hand & Feet Clear
L	Handle Lifting Point
M	Belt Guard Overtensioning Belts
N	Console Machinery Hazard

PRODUCT SPECIFICATIONS

The MK-20 Series is a versatile gas powered Concrete Saw. Operated and used according to this manual, the MK-20 Series will provide years of dependable service.

General Description

The MK-20 Series is engineered as a portable concrete saw powered by a Honda, Kohler, Subaru or Vanguard gas engine. The saw is capable of 6-5/8" depth of cut with an 18" blade and 7-5/8" depth of cut with a 20" blade.

Motor and Weight Specifications

Motor and Weight specifications for the MK-20 Series are listed below.

Model	MK2013HSP	MK-2013SE	MK-2013SSP	MK-2013VSP
Engine	Honda (Gas)	Subaru (Gas)	Subaru (Gas)	Vanguard (Gas)
Power	GX390	EH41	EH41	V-Twin
Starter	Pull	Electric	Pull	Pull
Fuel Capacity	1.6 Gallons	1.6 Gallons	1.6 Gallons	1.6 Gallons
Blade Capacity	18"	18"	18"	18"
Blade RPM	3,400	3,400	3,400	3,400
Depth of Cut	6-5/8" (167 mm)	6-5/8" (167 mm)	6-5/8" (167 mm)	6-5/8" (167 mm)
Weight	310 lbs. (141 kg)	290 lbs. (132 kgs)	310 lbs. (141 kg)	310 lbs. (141 kg)
Part #	156499	155714-S	156499-S	169949

Model	MK2014K	MK-2020HSP	MK-2024HSP	MK-2022SSP
Engine	Kohler (Gas)	Honda (Gas)	Honda (Gas)	Subaru (Gas)
Power	CH440	GX630	GX360	EH65
Starter	Pull	Electric	Electric	Electric
Fuel Capacity	1.6 Gallons	1.6 Gallons	1.6 Gallons	1.6 Gallons
Blade Capacity	18"	20"	20"	20"
Blade RPM	3,400	2,863	2,863	2,850
Depth of Cut	6-5/8" (167 mm)	7-5/8" (194 mm)	7-5/8" (194 mm)	7-5/8" (194 mm)
Weight	310 lbs. (141 kg)	392 lbs. (178 kgs)	398 lbs. (181 kg)	398 lbs. (181 kg)
Part #	168798	156498	158777	168952

Blade

The MK-20 Series uses a 18" to 20" diameter diamond blade.

Concrete Saw Usage

The MK-20 Series is designed to cut various grades of concrete surfaces.

MK-20 Series Series Features

- One-piece box construction chassis made from 3/16” hot-rolled steel
- Powder-coated chassis resists peeling and corrosion
- Cast-aluminum hinged blade guard
- Stainless steel water distribution system supplies water to both sides of blade
- Blade guard mounts on both left- or right-hand side of saw and cuts within 2” of wall or curb
- Heavy-duty blade shaft supported by two 1-3/16”, self-aligning pillow blockbearings
- Depth control assembly engineered for smooth, controlled blade insertion
- Built-in tach/hour meter
- Depth feed gauge indicator
- Heavy-duty hydro static transmission with variable speed drive
- Durable 8” x 2-1/4” non-slip rubber wheels with maintenance-free hubs & roller bearings
- Forward travel speed: 0-80’ minute

UNPACKING

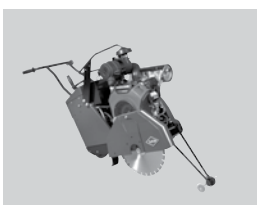


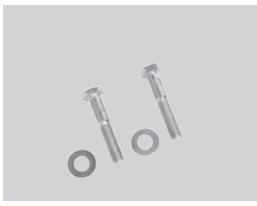
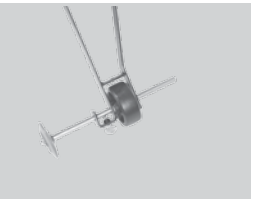

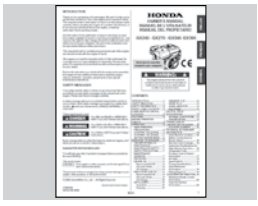
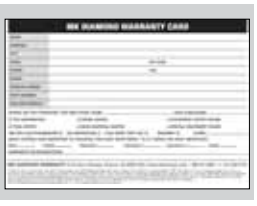
Your saw has been shipped from the factory thoroughly inspected. Only minimal assembly and service is required. Check each item, making certain all items are accounted for and in good visual condition before discarding any packing materials. If there are any missing or damaged parts call MK Diamond Customer Service at 800-421-5830.

! WARNING Never start engine until all initial servicing and set up steps are completed according to this operations manual and engine manual. Read and familiarize yourself with all controls and features of the saw before beginning operations.

Remove the saw from the pallet and place it on a flat surface. Two people are required to lift saw.

CONTENTS

In the containers, you will find one (1) MK-20 Series Saw, one (1) Blade Nut Wrench, one (1) Handlebar, two (2) Handlebar Bolts and Washers, one (1) Pointer, one (1) MK-20 Series Owner’s Manual, one (1) Engine Owners Manual, one (1) Warranty Card.

				
MK-20 Series Saw	1 Blade Nut Wrench	Handlebar	Handlebar Bolts and Washers	Pointer
				
MK-20 Series Owner's Manual	Engine Manual	Warranty Card		

TRANSPORT



- CAUTION**
1. The MK-20 Series weighs approximately two hundred and thirty-five (235 pounds), use care when transporting.
 2. Two people are required to lift and transport the MK-20 Series.

DESCRIPTION OF CONTROLS



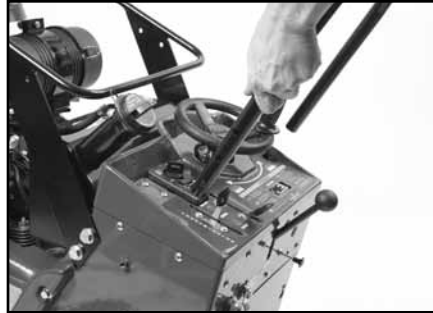
1. The Depth Control Wheel raises the blade when rotated clockwise, and lowers the blade when rotated counterclockwise.
2. The keyed ignition switch turns clockwise to the on and start positions. The engine turns over with the switch in the start position. Release the key after the engine starts.
3. When the engine is running, the Tach/Hour Meter display will indicate the engines RPM. When the engine is shut off, the display will switch to run time, initially in minutes, and then switching to hours after the first hour of operation.
4. The Transmission Speed Lever moves the saw forward by pushing the lever away from the operator and moves the saw in reverse by pulling the lever toward the operator. Always place this control in central neutral position before using the engage/disengage lever or starting or stopping the engine.
5. The Throttle control increases engine rpm from slow (idle) at the bottom, to fast (full rpm) at the top.
6. Depth Gauge should be adjusted to zero when setting up the saw.
7. Use water hose bibb for wetting cutting. After connecting hose, turn on the water at the source and use Water Control Lever to control flow of water to the blade. Be sure that both sides of the blade are getting adequate flow of water.
8. Water Control Lever is off in the vertical position and fully on in the horizontal position. It may be placed at in between settings to regulate the water flow.
9. The Transmission Engage/Disengage Lever is engaged in the full down position.
10. The Choke is located on the back panel for convenient cold starting.

Follow the assembly instructions to prepare your saw for operation.

HANDLEBAR ASSEMBLY



(A)
Locate the threaded holes on both sides of the handlebar.



(B)
Align the handlebar with the holes on both sides of the frame at the desired height.



(C)
Install one Washer onto each bolt. Install bolt through the Handlebar and into the holes and tighten.

FILLING OIL RESERVOIR

NOTE: The engine is shipped with no oil in the crankcase. Refer to the engine manual for details on the type and amount of oil required.

To fill the crankcase with oil, place the engine level. In order for this to be accomplished the blade must not be installed, and the depth adjustment must be down (until the engine is level).



(A)
Verify the Oil Drain Cap is installed onto the Oil Drain Line and is tight. Refer to Engine Manual for details.

NOTE: The engine and oil must be warm and your saw must be on level ground to get an accurate oil level reading.

HYDRO-STATIC TRANSMISSION

The Hydro-Static Transmission is factory filled with fluid having a viscosity equivalent to SAE 20 W 20.

NOTICE

Do not overfill the expansion tank. Notice that the full level line is near the bottom of the expansion tank. Over filling will result in rupturing the seals on the hydromatic transmission and subsequent mechanical damage.

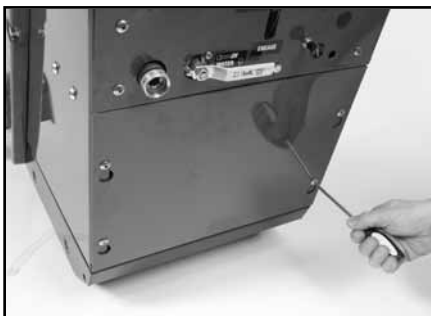


(A)

Check the oil level on the expansion tank to ensure that the transmission has adequate fluid.

BATTERY PREPARATION

The 12 volt battery is shipped wet and charged. Connect the battery leads according to the following steps to ensure that power is provided to the engines electric starter.



(A)

Remove the front lower panel to obtain access to the battery terminals.



(B)

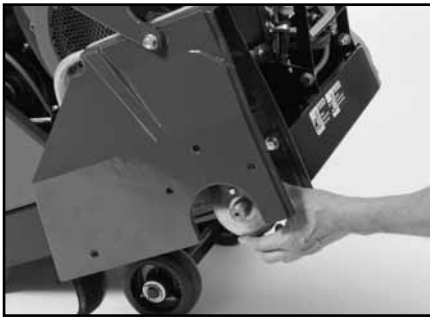
Connect the positive (+) battery cable to the positive battery terminal. Connect the negative battery cable to the negative terminal. Tighten the cap screws and nuts securely to assure proper electrical contact. Replace panel.

WARNING

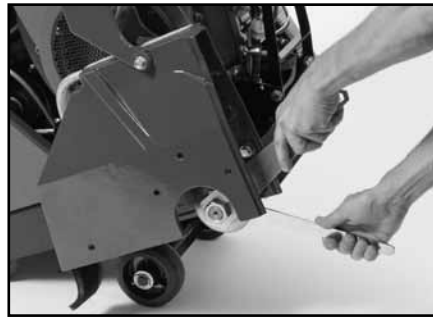
When tightening the positive (+) battery cable end, do not contact the negative (-) battery terminal with the wrench or other metallic objects. This could cause an electrical short and electrical sparking or an explosion of the battery. Be careful not to connect the battery in reverse polarity, as this will short circuit the battery charging system causing the fuse on the engine to become damaged, and also possibly resulting in an explosion of the battery.

DIAMOND BLADE INSTALLATION

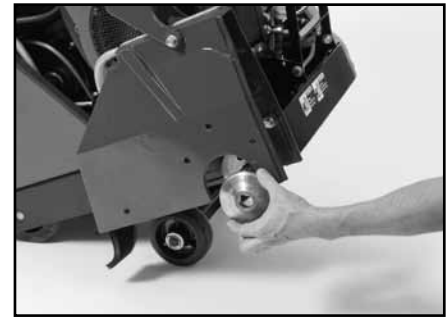
- NOTE:**
1. When installing the blade retaining-bolt, ensure the threads of the bolt are aligned with the threads of the drive shaft so as not to “cross-thread” the bolt.
 2. When installing the blade ensure that the blade shaft and flanges are free from dirt and all foreign material before mounting blade on the blade shaft. Tightening a blade against an uneven surface can cause fracture or cause the blade to run out of alignment.
 3. Blade shaft threads are left-handed on the right side of the saw and right-hand on the left of the saw.



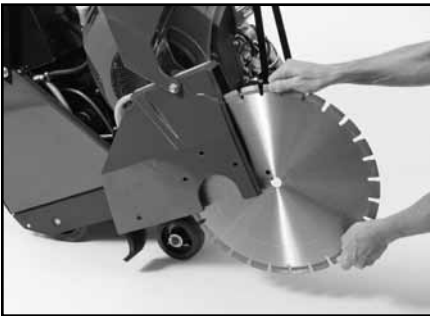
(A)
Open the Blade Guard Cover.
Locate the Blade Shaft Nut and the
Outer Flange.



(B)
Loosen the Blade Shaft Nut while
holding the Shaft Wrench steady.



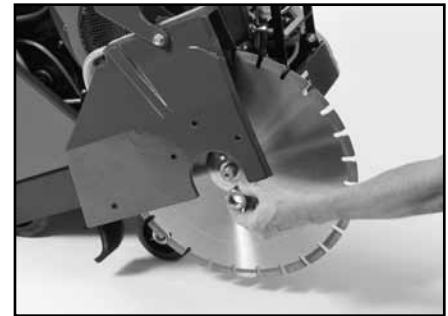
(C)
Remove the Blade Nut and Outer
Flange.



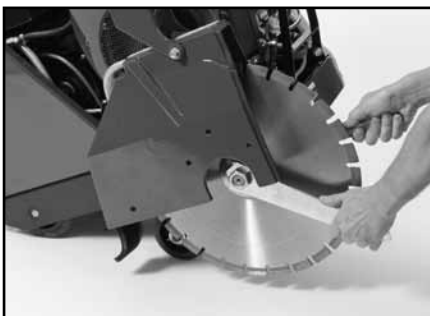
(D)
Install the Diamond Blade onto the
Blade Shaft and Drive Pin. Ensure
directional arrow on the blade indi-
cates proper rotational direction.



(E)
Install the Outer Flange. Verify the
drive pin is seated; it must project
through the hole in the blade and into
the flange.



(F)
Install the Blade Shaft Nut.



(G)
Tighten Blade Shaft Nut holding
the Blade Shaft steady. Lower and
close Blade Guard.

**WARNING**

Do not operate the saw without the proper Blade Guard covering. Ensure that the blade exposure does not exceed 180 degrees during operation.

DO NOT use woodcutting, or carbide blades on this machine! Use **ONLY** Diamond blades on machine.

NOTE:

Raise the blade as high as possible when maneuvering so that the blade will not strike the pavement. The blade is spinning whenever the saw is running.

FILLING FUEL TANK



WARNING

1. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.
2. To fuel, stop engine if running, and allow it to cool.
3. Fuel in a well-ventilated area.
4. Keep gasoline away from appliance pilot lights, barbeques, electric appliances, power tools, etc.
5. Wipe up spills immediately. Do not start engine until spill is dry.
6. When filling the fuel tank do not overfill. Always leave enough area for expansion due to environmental heating.

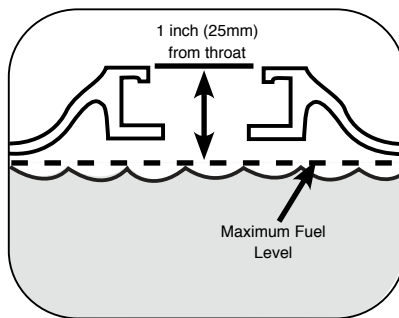
NOTE:

1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
2. DO NOT use stale or contaminated gasoline, or an oil/gasoline mixture.



(A)

Remove the Fuel Cap.

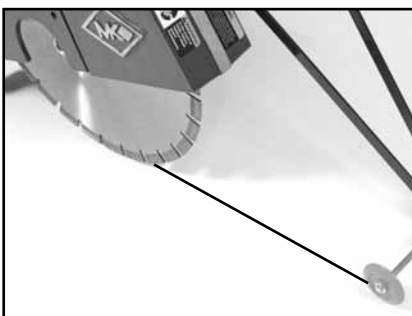


(B)

Ensure fuel level is 1" below the throat of the Fuel Tank.

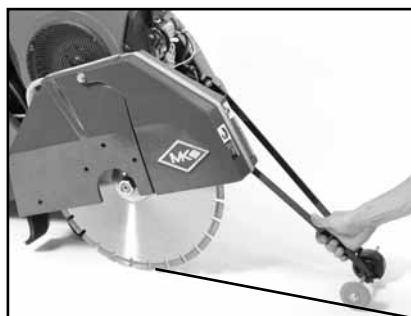
FRONT POINTER ALIGNMENT

The Front Pointer is set in line at the factory. However, the pointer should be checked for proper alignment with the blade after every use.



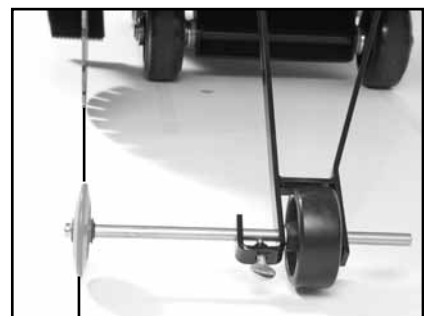
(A)

Using a straight edge, carefully mark a line 12 feet long on a smooth level concrete surface. Place Saw parallel to line; lower Blade and center it over the line.



(B)

With the Blade centered over the line and the Saw Frame parallel to the line, lower the front Pointer assembly and position the pointer over the line.

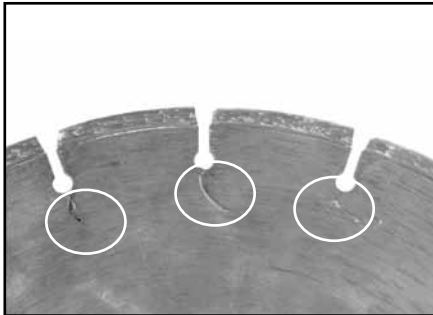


(C)

Adjust the Pointer in or out if the orange wheel is off the line by loosening the thumbscrew on the end of pointer. Align orange wheel with line and tighten thumbscrew. Roll saw along the entire length of the line to ensure proper alignment.

PRE-START INSPECTION

The pre-start inspection should be performed before beginning any job.



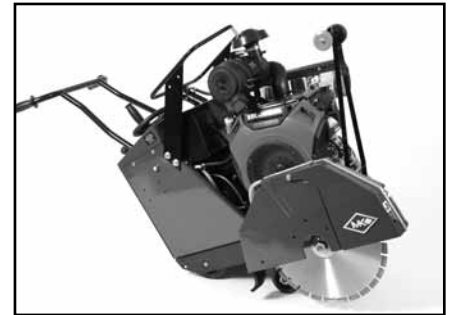
(A)

Inspect Blade for damage for cracks and wear, replace if necessary. Verify the Blade is correct for the material being cut.



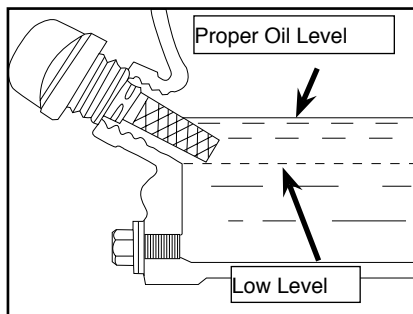
(B)

Inspect Engine for leaks. Make sure surfaces are clean and unobstructed.



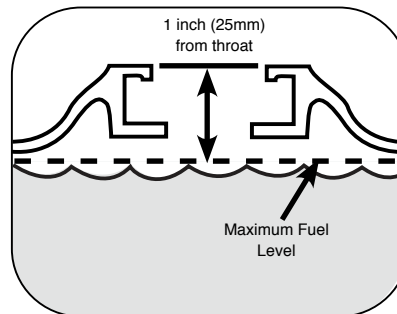
(C)

Inspect the saw for general damage and/or loose hardware. Check that the equipment covers and guards are in place and securely fastened.



(D)

Check for proper oil level. Refer to Engine Manual for details.



(E)

Ensure fuel level is 1" below the throat of the Fuel Tank.



(F)

Check the Air Filter for cleanliness. Refer to Engine Manual for details.

WARNING

- **NEVER** disconnect any “emergency or safety devices”. These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death! Disconnection of any of these devices will void all warranties.
- Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.
- **NEVER** use accessories or attachments, which are not recommended by MK Diamond for this equipment. Damage to the equipment and/or injury to user may result.

ADJUSTING DEPTH OF CUT GAUGE



(A)

Turn Crank Wheel until Blade touches the ground.



(B)

Turn the Depth Gauge Indicator dial clockwise until it reads zero.

BLADE SPEED AND THROTTLE SETTING



Since diamond blades cut best at specific rim-speeds, blades of different diameters must be turned at different blade shaft rpm's.

The MK-2013/14 will run either a 16" or 18" blade and the MK-2020/24/22 HSP will run a 16" through 20" blade.

Safe, efficient, economical cutting performance will occur at the engine rpm (as read on the tachometer) stipulated on the following chart.

Blade Diameter	set engine rpm to*
14"	full throttle (3500)
16"	3200-full throttle
18"	2850-3300
20"	2550-3000

The MK-20 Series engine shaft to blade shaft ratio is 1:895.



WARNING Operating saw blades at rotational speeds greater than those recommended by the manufacturer can cause blade damage and possibly subsequent personal injury.

Never exceed 3600 rpm blade shaft speed.

* The MK-20 Series, it is possible to cause overspeeding of the blade at throttle settings above those stipulated on the above chart; **DO NOT EXCEED THESE ENGINE RPM SETTINGS!**

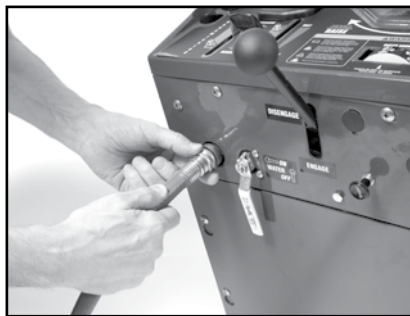
STANDARD OPERATION

The MK-20 Series is intended for industrial applications and operated by experienced professionals. The operator must be aware of the machine's capabilities and limitations. It is the operators responsibility to use this machine under safe working conditions and conform with federal, state and local codes or regulations pertaining to safety, air, pollution, noise etc...

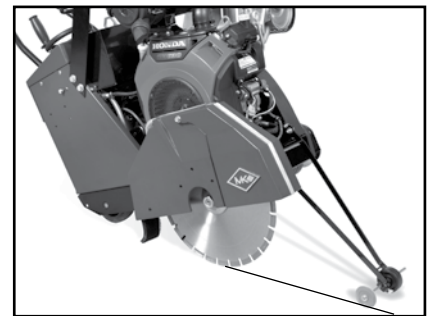
- CAUTION** Prior to operation of this machine the operator must determine the existence and location of any subsurface features that may be hazardous or could damage the equipment, (i.e. electric cable, natural gas line etc...)
- WARNING** Be sure blade is unobstructed and not resting on ground.
Be sure hands and feet are clear of blade.
- WARNING** Carbon monoxide gas is toxic, breathing it can cause unconsciousness and/or death. Ensure that the space is adequately ventilated.
Avoid any areas or actions that expose you to carbon monoxide.
If the saw should stall for any reason, raise the blade out of the cut before restarting the engine.
- NOTICE** Read the engine instructions manual before starting saw.
- NOTICE** **DO NOT** crank engine for more than 30 seconds at a time. If engine fails to start, wait about 2 minutes between cranking periods to prevent starter from overheating.
- NOTICE** Allow engine to warm up at least 3 minutes before applying load. When engine is warm, throttle may be used out to maximum position. Special precautions should be taken during the break-in period as specified by the Engine Manual.



(A)
Use the Depth Control Wheel to raise the blade clear of the floor.



(B)
Attach the cooling supply hose to the Cooling Inlet, if wet cutting.



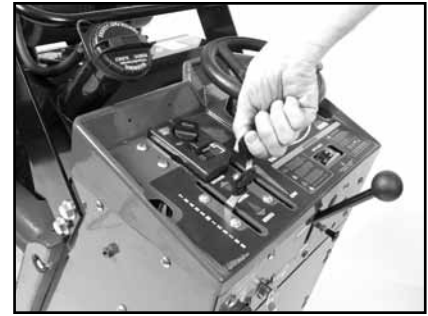
(C)
Layout and mark the area to be cut using a chalk-line. Align Pointer and Blade to chalk-line.



(D)
Place Transmission Speed
Lever in Neutral.



(E)
Verify Neutral Engagement Handle
is down, in Neutral. Choke engine
as required for cold starting.



(F)
Push Engine Throttle Handle up
half-way.



(G)
Start engine by rotating Ignition
Switch to the right.



(H)
For Wet Cutting, open Cooling
Supply Valve. Verify proper cooling
flow and adjust the water flow on
the Blade to a desired amount.



(I)
Move the throttle all the way for-
ward to "Fast" position.

NOTE: Perform the cut using only enough pressure to follow the original marked line. The saw has a natural tendency to pull towards the side on which the blade is mounted. To assure straight line cutting, apply pressure to the appropriate handle. If excessive pressure is required reduce the forward speed of the saw. Driving the saw too fast while cutting may cause the front wheels to lift causing the blade to cut at uneven depths. Do not attempt to steer the saw. Sudden and severe corrections can cause the blade to be damaged or broken.



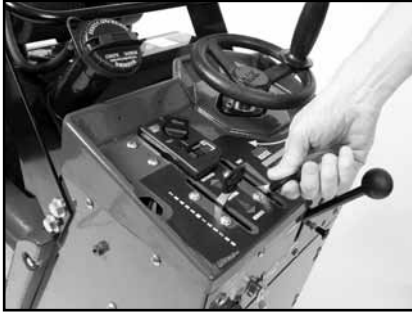
(J)
Slowly lower the Blade until the
desired level is reached and begin
the cut.



(K)
When the cut is complete, raise
the Blade completely out of the cut
by turning Depth Control Wheel
counter-clockwise.



(L)
Close Cooling Supply Valve.



(M)

Move the Throttle Lever to lower blade speed.



(N)

Turn off engine by rotating Ignition Switch to off position.

NOTE:

Do not turn off engine while at full throttle.

**NOTICE**

If the engine has been running hard and is hot do not shut engine off abruptly. Cool engine by removing load and allowing engine to run idle for 3 to 5 minutes.

STEP CUTTING

1. Follow general instructions outlined in the section Standard Operation on page 19.
2. When deep sawing (more than 4") or concrete with hard aggregate, sawing to full depth in several cuts should be made in incremental steps of 1-1/2 to 2 inches until the desired depth of cut is reached. In softer aggregates or asphalt, it may be possible to saw full depth in two passes.
3. Gradually move the speed control lever forward to increase the cutting speed. If the blade stalls in the cut (which can happen when deep sawing) immediately raise blade from cut. If not done at once, the belts will spin freely and burn. Check belts for proper tension and continue sawing at a slower rate of speed.
4. On final pass, lower the blade until it hits the sub-base (sandy color will appear in the water being discharged from the cut). Raise blade approximately 1/2" from bottom. The sand and gravel particles of the sub-base may cause premature wear or damage to the saw blade.
5. It is common, on the final pass of the cut, for pavement to wedge blade, particularly on a hot day. When this happens, immediately stop engine. If the blade is wedged, remove the Blade Shaft Bolt and Outside Collar and move the saw away from the blade. To remove a wedged blade from the concrete, use a jack hammer and carefully chip out concrete around the blade. (Pounding or twisting the blade may cause severe damage).
6. Go slowly with a new blade until it "opens up" that is, until you can see and feel the diamonds.
7. Small corrections can be made by leaning on handles.
Deep sawing is very hard on saws and blades. Experienced operators soon get a "feel" for the saw and are constantly on guard to slow down when they hit excessive steel or hard aggregate.

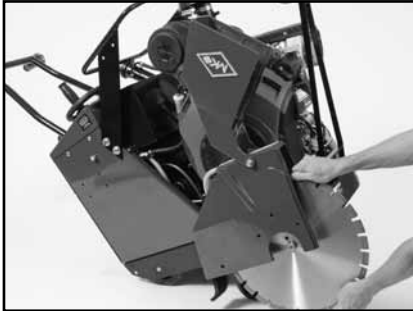
DRY CUTTING

- NOTE:**
1. Ensure the blade you are using is clearly marked for dry cutting.
 2. Check the condition of the air filter at least every four hours of operation.
Refer to Engine Manual for details.

Airflow helps to cool the blade during dry cutting. Cutting too deep with one pass, or exerting excessive forward or side pressure can be dangerous and cause damage. Step cut in increments of 2 inches or less, for best results. Thinner blades are especially advantageous when cutting dry.

BLADE GUARD REPOSITIONING

WARNING Do not operate saw with any guards removed. Turn master engine switch to off position to avoid accidental starts when removing guards.



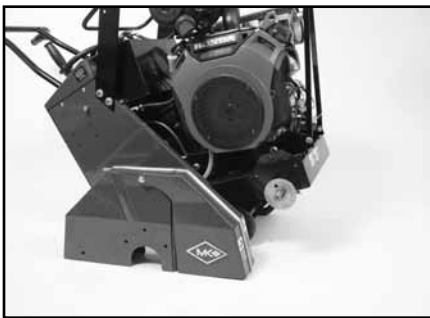
(A)
Remove Diamond Blade.



(B)
Remove the Cooling Transfer
Hose from the Blade Guard by
pressing the quick release.



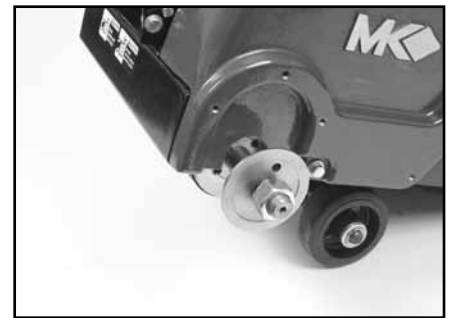
(C)
Locate the four Blade Guard Re-
taining Bolts.



(D)
Remove the Blade Guard
Retaining Bolts and remove the
Blade Guard.



(E)
Locate the Blade Shaft Cover
Retaining Bolts.



(F)
Remove the Blade Shaft Cover
Retaining Bolts and the Blade
Shaft Cover.



(G)
Install the Blade Guard on the
opposite side of the saw.



(H)
Install Diamond Blade



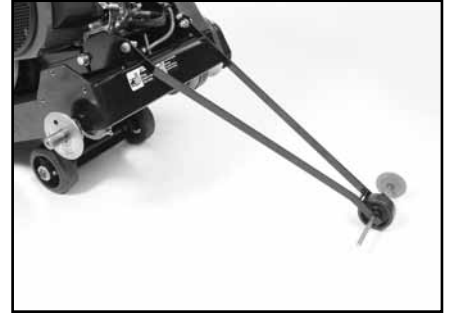
(I)
Install the Cooling Transfer Hose
to the Blade Guard.



(J)
Install the Blade Shaft Cover.



(K)
Remove the Pointer.



(L)
Install the Pointer on the opposite side, next to Blade Guard.
(See Front Pointer alignment Page 16)

EMERGENCY ENGINE SHUTDOWN



(A)
Place Engine Master Switch in the OFF position.



(B)
Move the Throttle Lever to lower blade speed. Place Fuel Valve in the OFF position.

CLEANUP



CAUTION

Engine parts are extremely hot following use, allow engine to cool 1/2-hour before cleaning. Use care during cleanup to avoid injury.

NOTE:

1. To extend operating life, the Concrete Saw should be cleaned following every use.
2. Using a garden hose or pressure washer is not advised as it can force water into the air cleaner or muffler opening. Steam cleaning is the preferred method of cleaning.
3. Use care when cleaning around electrical components.



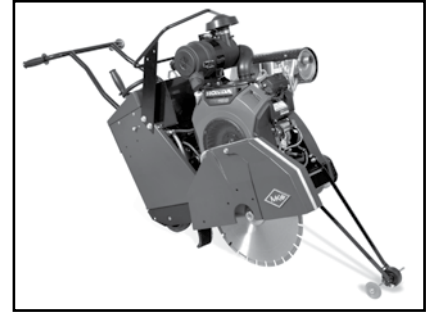
(A)

Verify the engine is off and cool before beginning to clean. Clean the saw with soap and water.



(B)

Clean water system outlets, including water tubes in blade guard.



(C)

Clean the remainder of the exterior surface (except the engine).

MAINTENANCE SCHEDULE

Item should be performed at every indicated hour(s) or interval period whichever goes first.

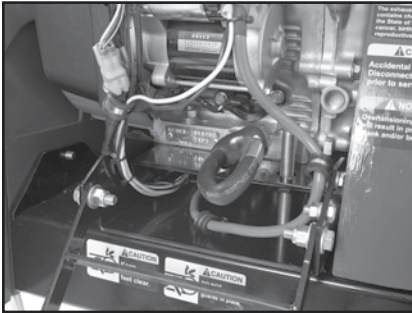
Maintenance Schedule	Maintenance Operation	Daily	25 Hours or Weekly	100 Hours or Seasonal
Air Filter	Check	Every 4 Hours When Dry Cutting Every 8 Hours When Wet Cutting		
	Change Air Filter			•
Hydrostatic Transmission/Reservoir	Check Oil	•		
Mainframe	Blade Shaft Bearings	Lube Blade Shaft Bearings at end of Operations		
	Pivot Bearings		•	
	Chain Drive	•		Adjust Tension •
	Transmission Control Assemblies		•	
	Battery		•	
	V-Belts		•	Replace •
Battery	Check Water Level		•	
Engine	Definitive information on engine maintenance is contained in the Engine Manual provided separately. Perform all maintenance procedures as recommended by the engine manual.			

MAINTENANCE SAFETY

- Always turn the master engine switch to the off position.
- **NEVER** lubricate components or attempt service on a running machine.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts, or missing decals.

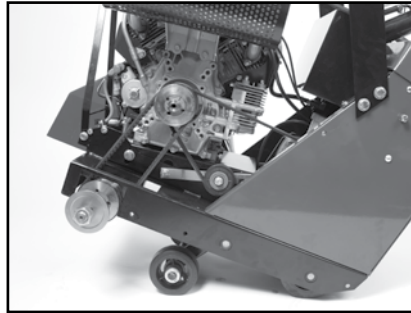
NEW MAINTENANCE

Perform the following after initial purchase and operation of the saw.



(A)

Change engine oil after first month or first 20 operating hours (See Engine Manual).



(B)

Check and adjust tension on all belts following first 48 hours of operation.

Maintenance Following Use

The following maintenance should be performed following each use.



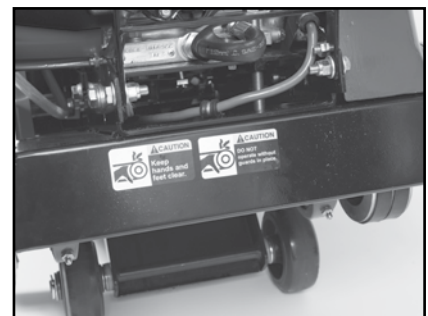
(A)

Shut down the Engine. Let saw cool before proceeding.



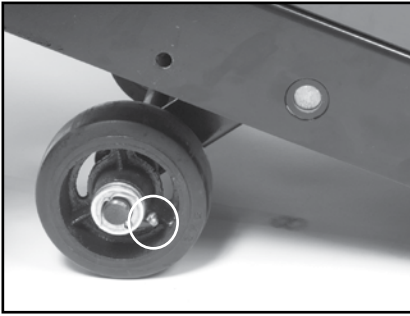
(B)

Check Air Filter (See Engine Manual).

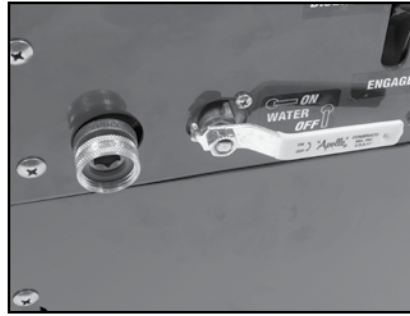


(C)

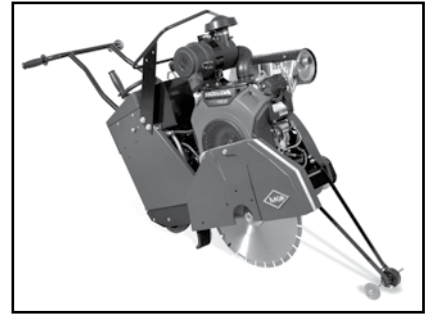
Lubricate the Grease Fitting on the Blade Shaft.



(D)
Lubricate the zerk fitting on each wheel.



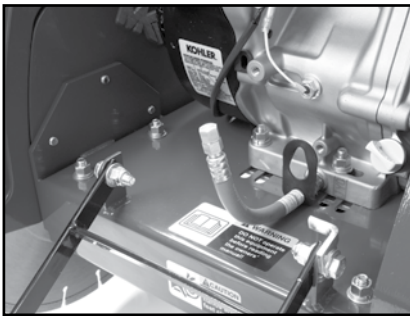
(E)
Lubricate the Cooling Supply Valve.



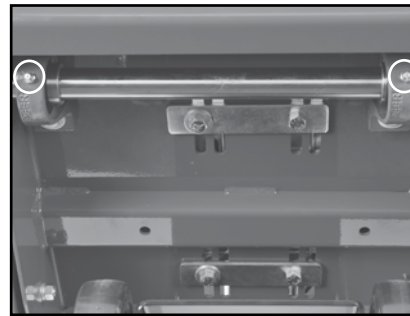
(F)
Verify the tightness of all bolts and screws. Clean the saw (except the engine) with soap and water.

Weekly (50 hours) and Monthly (200 hours)

The following should be performed monthly. Items should be lubricated using waterproof grease.



(A)
Change engine oil every 100 hours. Refer to Engine Manual for details.



(B)
Lubricate the Blade Shaft Bearings (Monthly).



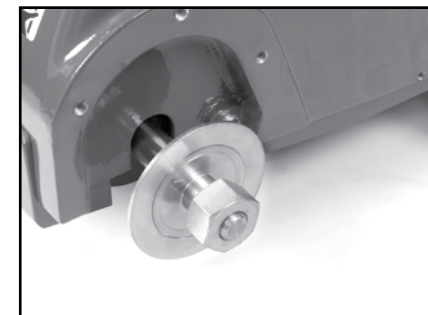
(C)
Clean engine Air Filter weekly and replace monthly. Refer to Engine Manual for details.



(D)
Clean Spark Plug Weekly and re-adjust Spark Plug monthly. Refer to Engine Manual for details.



(E)
Clean and lubricate the Blade Shaft.

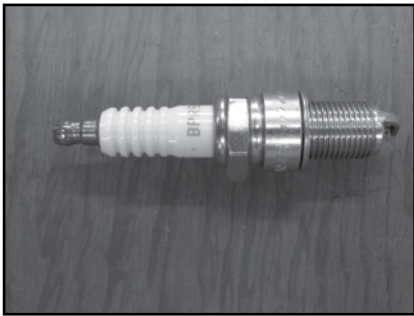


(F)
Clean and lubricate the Blade Retaining Bolt.

NOTE: Definitive information on engine maintenance is contained in the engine manual provided separately. Perform all maintenance procedures as recommended by the Engine Manual.

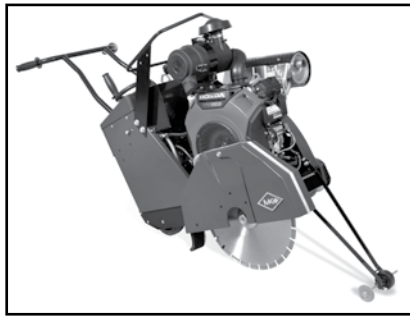
500 Hours and 1000 Hour Maintenance

Perform the following maintenance every 500 hours.



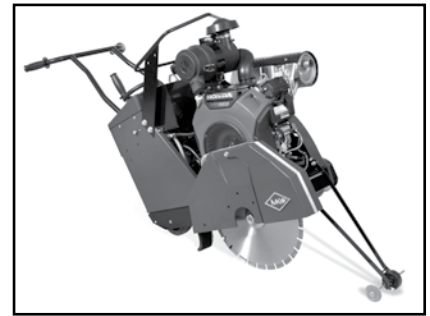
(A)

Replace Spark Plug. Refer to Engine Manual for details.



(B)

Have Authorized Repair Shop perform 500-hour maintenance.

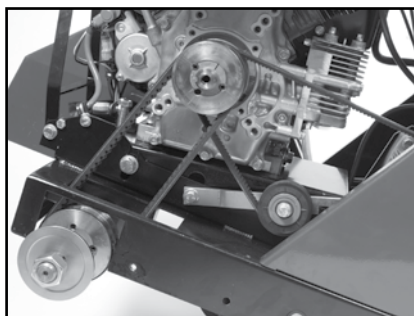


(C)

Have Authorized Repair Shop perform 1000-hour maintenance.

Yearly and Two-Year Maintenance

Perform the following maintenance every year.



(A)

Inspect belts for proper tension and wear.

Check Fuel Level

For all Engine related maintenance and troubleshooting refer to the Engine Manual.



WARNING

1. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.
2. To fuel, stop engine if running and allow it to cool.
3. Refuel in a well-ventilated area.
4. Keep gasoline away from appliance pilot lights, barbeques, electric appliances, power tools, etc.
5. Wipe up spills immediately.

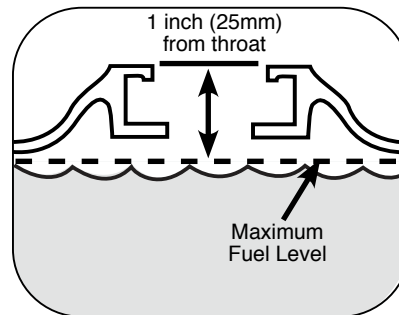
NOTE:

1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
2. DO NOT use stale or contaminated gasoline or an oil/gasoline mixture.



(A)

Remove the Fuel Cap. Refer to Engine Manual for details.

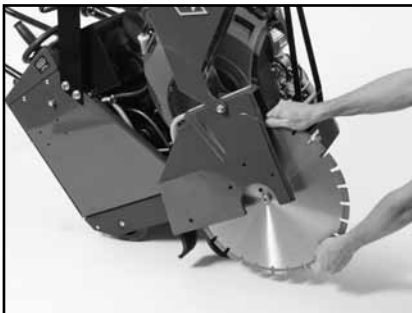


(B)

Ensure fuel level is 1" below the throat of the Fuel Tank.

Engine Maintenance

Engine maintenance and adjustment is necessary to keep the saw in good operation condition. Maintenance operations include oil changes, filter changes, air cleaner, spark plug, fuel filter etc...Perform all maintenance procedures as recommended by the Honda, Vanguard, Kohler or Subaru engine manual provided separately.



(A)

Remove the Diamond Blade.



(B)

Lower the MK-20 Series to its lowest position.



(C)

Free the Oil Drain Line. Place a catch basin below the Oil Drain Line. Remove the Drain Cap to drain oil completely. Refer to Engine Manual for details.

Engine Air Filter Inspection, Cleaning and Replacement



(A)

Clean the Air Filter. Refer to Engine Manual for details.

Spark Plug Adjustments and Replacement

For all Engine related maintenance and troubleshooting refer to the Engine Manual.



CAUTION

DO NOT work around the engine while hot.



(A)

When installing the Spark Plug, ensure the threads are aligned with the threads in the engine so as not to “cross-thread” the plug.

Electrical System

A fuse protects the battery charging circuit. The fuse and the battery are the only user serviceable parts of the electrical system, a short circuit or a battery connected in reverse polarity will blow the fuse. Refer to the Engine Manual for the location and type of fuse. The fuse on the Engine is located between the starter solenoid and the engine, and is rated at 30 amps.



CAUTION



If the fuse blows, determine the cause of the problem before resuming operations.

Battery

Check water level weekly. Add distilled water if necessary. Check terminal cables and remove any deposits. Remove the battery for recharging and follow the instructions for recharging. Damage can result to the battery and electrical system if the battery is charged or installed in reverse polarity. Make sure that the negative terminal is connected to ground.

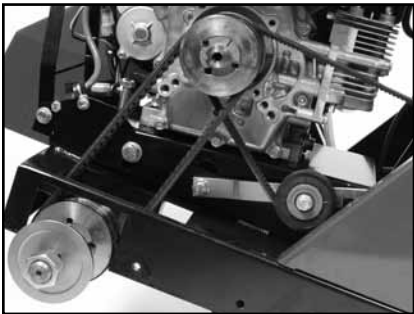
Remove and install battery as per instructions in Assembly Section of this manual. Be careful not to contact metal while loosening positive terminal with tools.



CAUTION

Observe all battery precautions as outlined in the Assembly Section of this manual.

Belt Adjustment and Replacement



This machine is equipped with two heavy duty V-belts which are tensioned properly at the factory. These must be re-tensioned after the first half day of operation and periodically thereafter. Adjust to the original tension as set at the factory, which is approximately 1/4 inch of deflection of the center of the belt halfway between the pulley on the motor and the pulley on the blade shaft.

To adjust belt tension, first remove the belt guard. With the belt guard removed, loosen motor mount bolts. Loosen the lock nut and adjust set bolt on the motor tension adjuster until the required belt tension is achieved.

Retighten the motor mounting bolts.

The two most common causes of misalignment are shown in the drawings.

- A. the engine drive shaft and the blade shaft are not parallel.
- B. the pulleys are not located properly on the shafts.

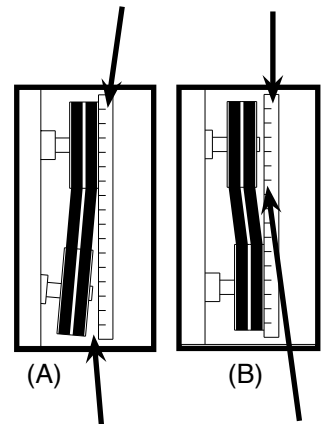
Never make adjustments to belts or pulleys while engine is running.

CAUTION



DO NOT OVER TENSION as damage to belts and bearings may occur. Belts that are too loose may slip, resulting in short life and loss of power to the blade shaft. If any belts are worn or damaged, replace the complete set.

The motor mounting plate must be maintained parallel to the frame. Make sure all lock nuts are tightened and retighten the bracket bolts.



NOTE:

Gap between steel straight edge and sheave.

FIGURE 1 - PARTS LIST: MK-2020HSP CONCRETE SAW - P/N 156498

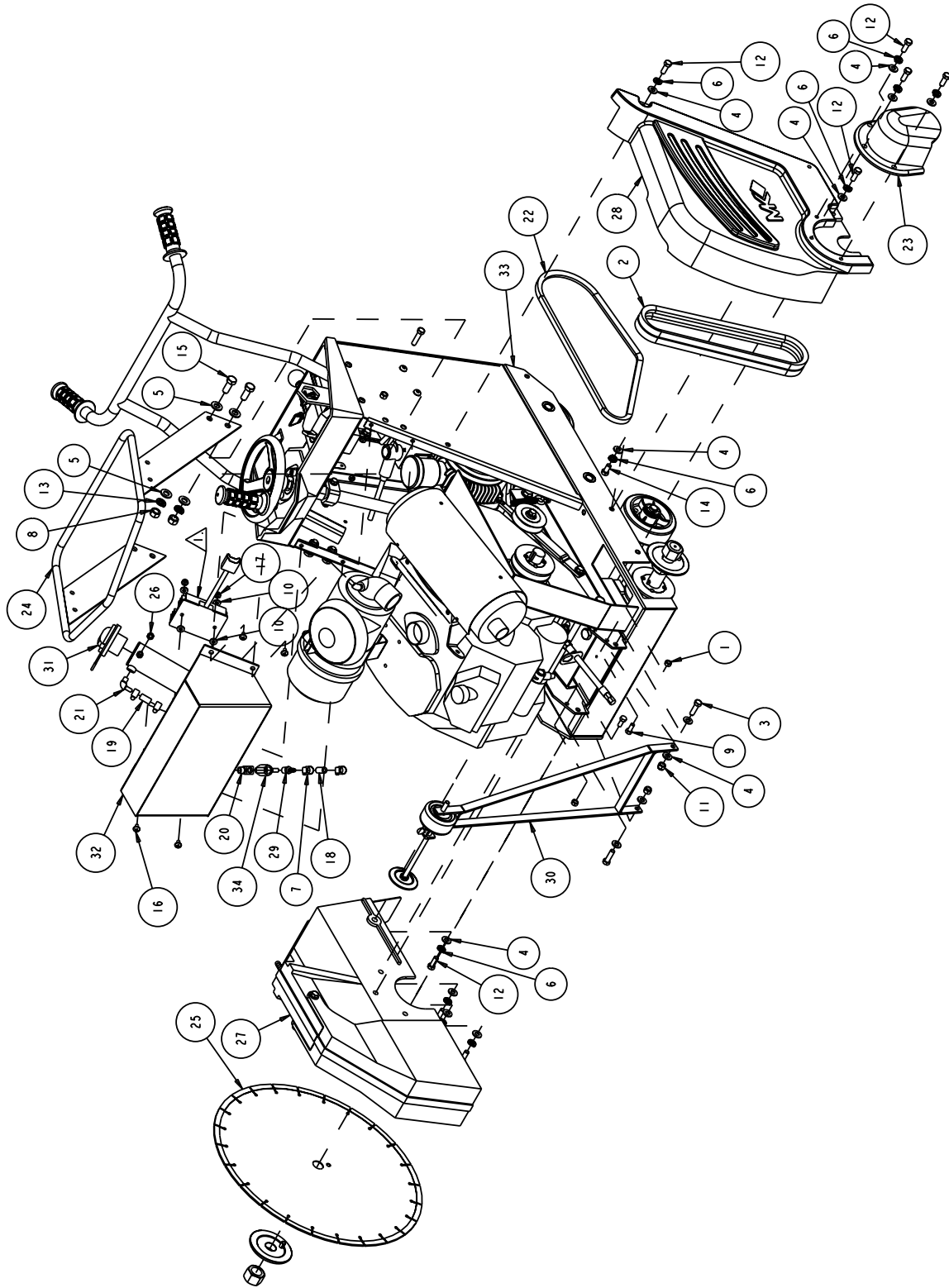
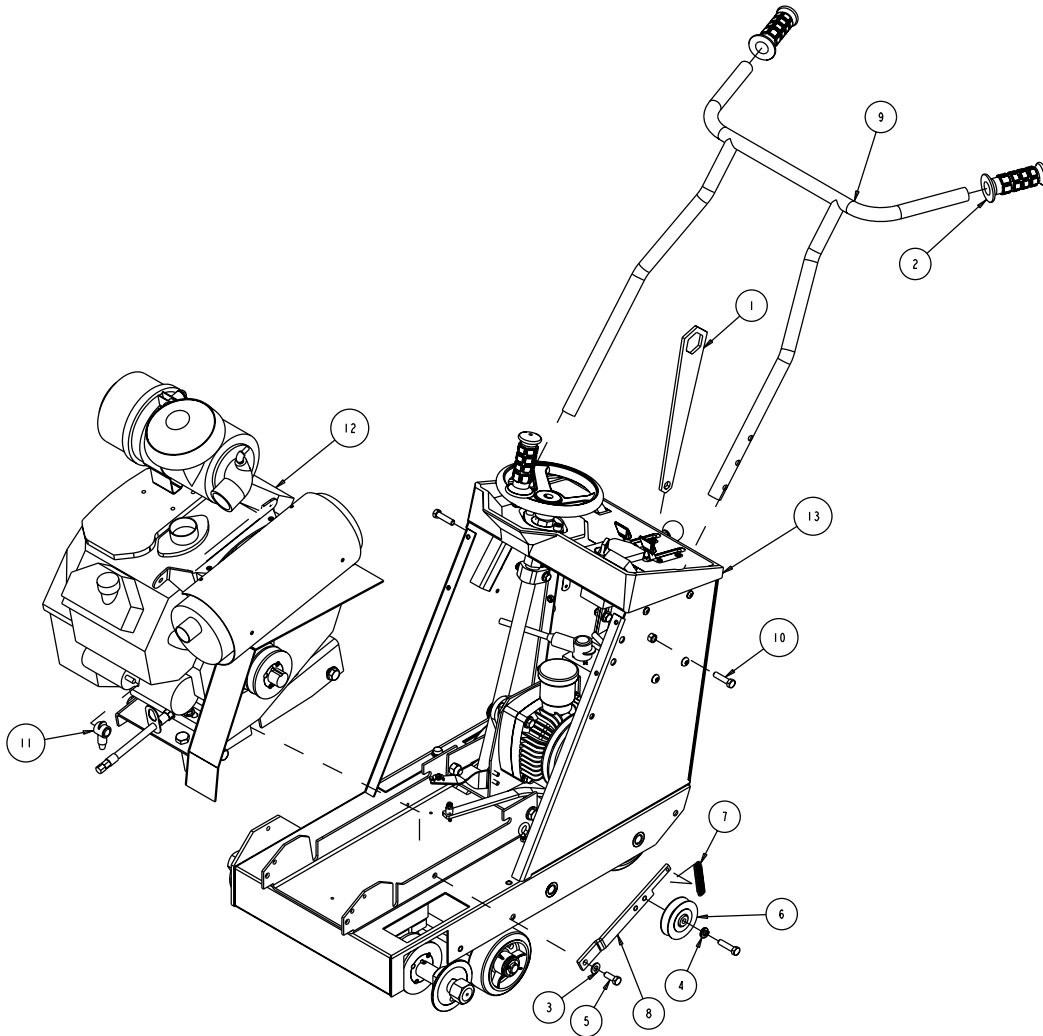


FIGURE 1 - PARTS LIST: MK-2020HSP CONCRETE SAW - P/N 156498

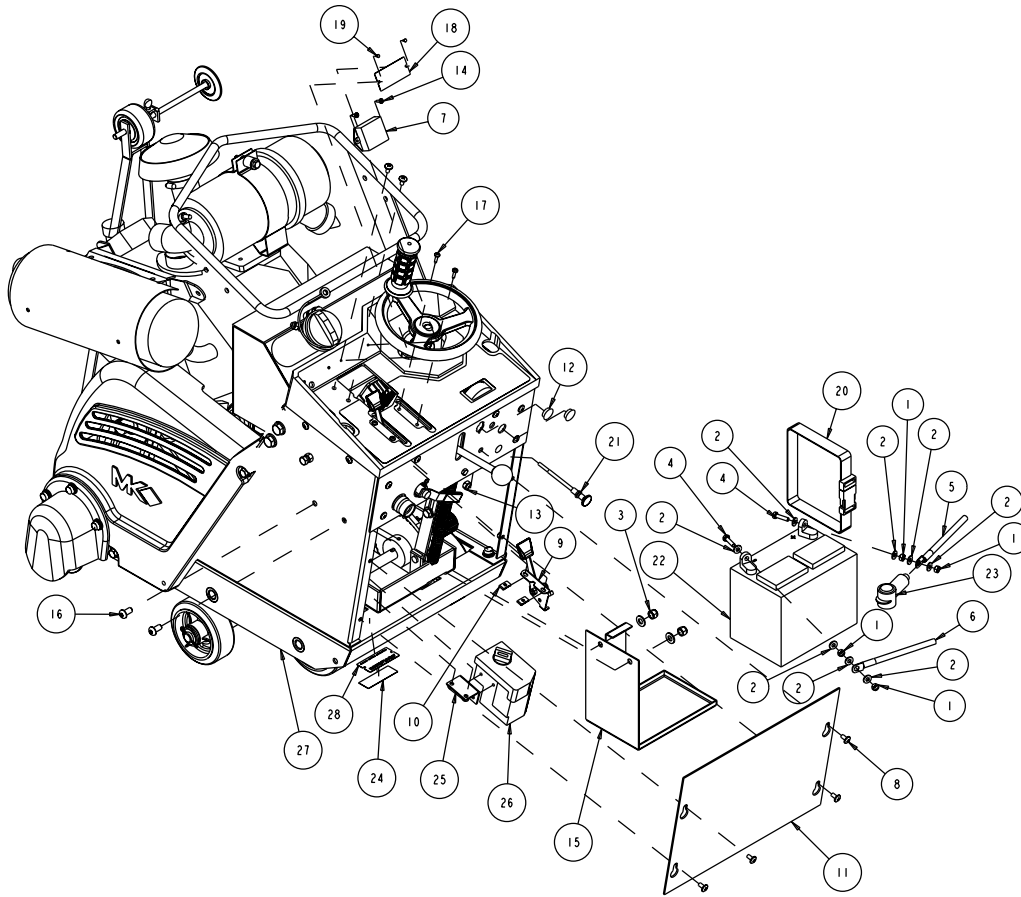
ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, HEX, 5/16 - 18	101196	2
2	BELT, BX34	150764	2
3	SCREW, 3/8 - 16 X 1 -1/4 HEX HEAD CAP	150774	2
4	WASHER, FLAT, SAE 3/8	150923	17
5	WASHER, 1/2 SAE FLAT	150924	8
6	WASHER, LOCK, SPLIT, 3/8	150925	11
7	CLAMP, HOSE, 5.8	151198	4
8	NUT, 1/2 - 13 HEX	151282	4
9	SCREW, HEX HD, CAP, 5/16 - 18 X 3/4	151369	2
10	WASHER, 1/4 SAE FLAT	151915	12
11	NUT, 3/8 - 16 NYLOK HEX	152505	4
12	SCREW, HEX HD CAP, 3.8 -16 X 1	152507	10
13	WASHER, 1/2 SPLIT LOCK	153524	4
14	SCREW, HEX, 3/8 - 16 X 3.4	153527	1
15	SCREW, 1/2 - 13 X 1 -1/4 HEX HEAD CAP	153532	4
16	SCREW, 1/4 - 20 X 1/2 TRUSS HEAD	153880	10
17	NUT, HEX, TW, 1/4 - 20	153941	2
18	HOSE, 1/4 FUEL, 12"	154163	1
19	HOSE, 1/4 FUEL, 24"	154163	1
20	ELBOW, 1/4 MNPT STREET	154615	1
21	ELBOW, 1/8 MNPT X 1/4 BARB 90DEG	154652	1
22	BELT, AX-42	156110	1
23	GUARD, SHAFT (COMP)	156307	1
24	LIFTING BAIL	156543	1
25	BLADE, MK-799D 16 X 125 X 1	157769	1
26	NUT, HEX, NYLK, 5/16 - 18	158289	1
27	ASSY, BLD GRD 20"	158818	1
28	BELTGUARD (COMP)	159888	1
29	FITTING, PUSH ON HOSE 1/4 X 1/4 MALE	165183	1
30	ASSY, POINTER, CONC SAW	166465	1
31	CAP, 2" FUEL FILLER	167220	1
32	TANK, FUEL, 2.5 GAL	169353	1
33	ASSY, FRAME, LESS ENGINE	169719	1
34	VALVE, BALL, 1/4"M TO 1/4"F	231248	1

FIGURE 1 - PARTS LIST: MK-2020HSP CONCRETE SAW - P/N 156498



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	WRENCH, BOX END, 1-1/2 X 9/16	137976	1
2	GRIP, HANDLE, 1/0 ID	150842	2
3	WASHER, FLAT, SAE, 3/8	150923	3
4	WASHER, LOCK, SPLIT, 3.8	150925	1
5	SCREW, HEX HD CAP, 3/8 - 16 X 1	152507	8
6	PULLEY, 1A30 X 1/2 BORE IDLER	153797	1
7	SPRING, 9.16 X 2.5 EXTENSION	153807	1
8	BRACKET, IDLER PULLEY	154244	1
9	WELDMENT, HANDLEBAR	156516	1
10	SCREW, HEX HEAD 3.8 - 16 X 1 - 1/2 LG.	156656	2
11	COVER, 8 - 4 AWG TERMINAL, RED	169355	1
12	ASSY, ENGINE, HONDA GX630	169713	1
13	ASSY, FRAME, LESS ENGINE	169719	1

FIGURE 1 - PARTS LIST: MK-2020HSP CONCRETE SAW - P/N 156498



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, HEX, 1/4 -20	151893	4
2	WASHER, 1/4 SAE FLAT	151915	12
3	NUT, 3/8 -16 NYLOK HEX	152505	4
4	SCREW, HEX HD CAP, 1/4 - 20 X 1	152676	2
5	CABLE, 4GA X 48 RED BATTERY	153848	1
6	CABLE, 4GA X 24 BLACK BATTERY	153849	1
7	TACHOMETER/HOURMETER	153877	1
8	SCREW, 1/4 -20 X 1/2 TRUSS HEAD	153880	10
9	ASSY, THROTTLE CONTROL	155406	1
10	NUT, 10 -24 CLIP	155407	2
11	PANEL, TOWER LOWER BACK	156505	1
12	PLUG, HOLE PLASTIC 3/4"	156615	2
13	NUT, 3/8 - 24 HEX JAM	156623	1
14	SCREW, PAN HD SELF TAP 8 - 32 X 1/2	156632	2
15	BOX, BATTERY	156634	1

FIGURE 1 - PARTS LIST: MK-2020HSP CONCRETE SAW - P/N 156498

ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
16	SCREW, BTN HD 3/8 16 X 3/4 SOCK	156635	2
17	SCREW, PAN HD PHIL MS 10 24 X 3/4	156641	2
18	TAG, SERIAL #, BLANK	157500-RW	1
19	DRIVE SCREW, #7 X 5/16 ROUND HEAD	157849	2
20	STRAP, NYLON, 1"	158094	1
21	CABEL, CHOKE, HONDA (COMP)	158816	1
22	BATTERY, 12V, 35AH	162589	1
23	COVER, 1" BATTERY TERMINAL, RED	163940	1
24	TAPE, VHB, 5952 (3.0")	166487	1
25	BRACKET, SWITCH	169714	1
26	WIRING HARNESS, GX630/690	169715	1
27	ASSY, FRAME, LESS ENGINE	169719	1
28	TAG, EVAP, 20S, PARENT	169736-205	1

FIGURE 2 - PARTS LIST: MK-2024HSP CONCRETE SAW - P/N 158777

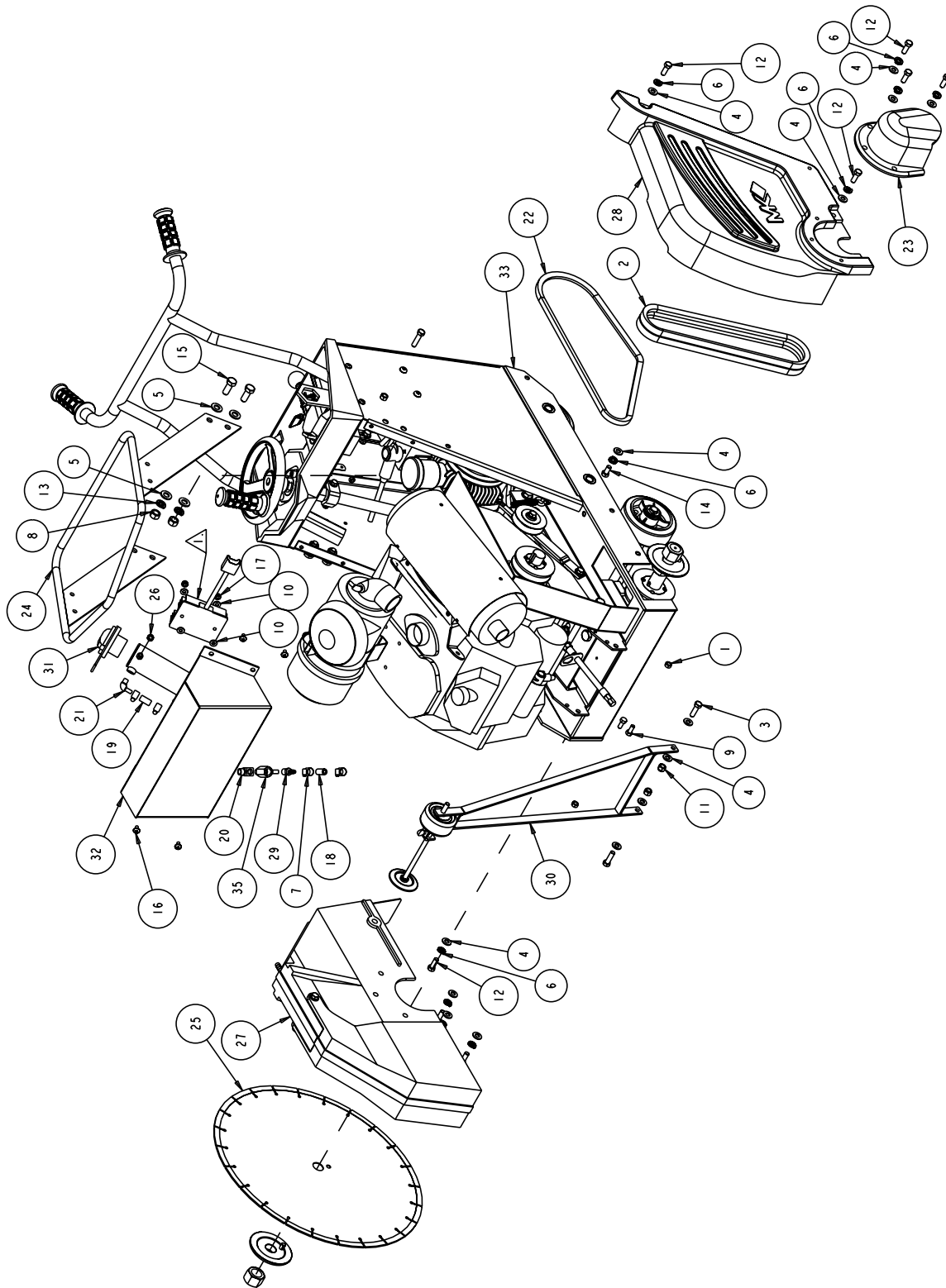
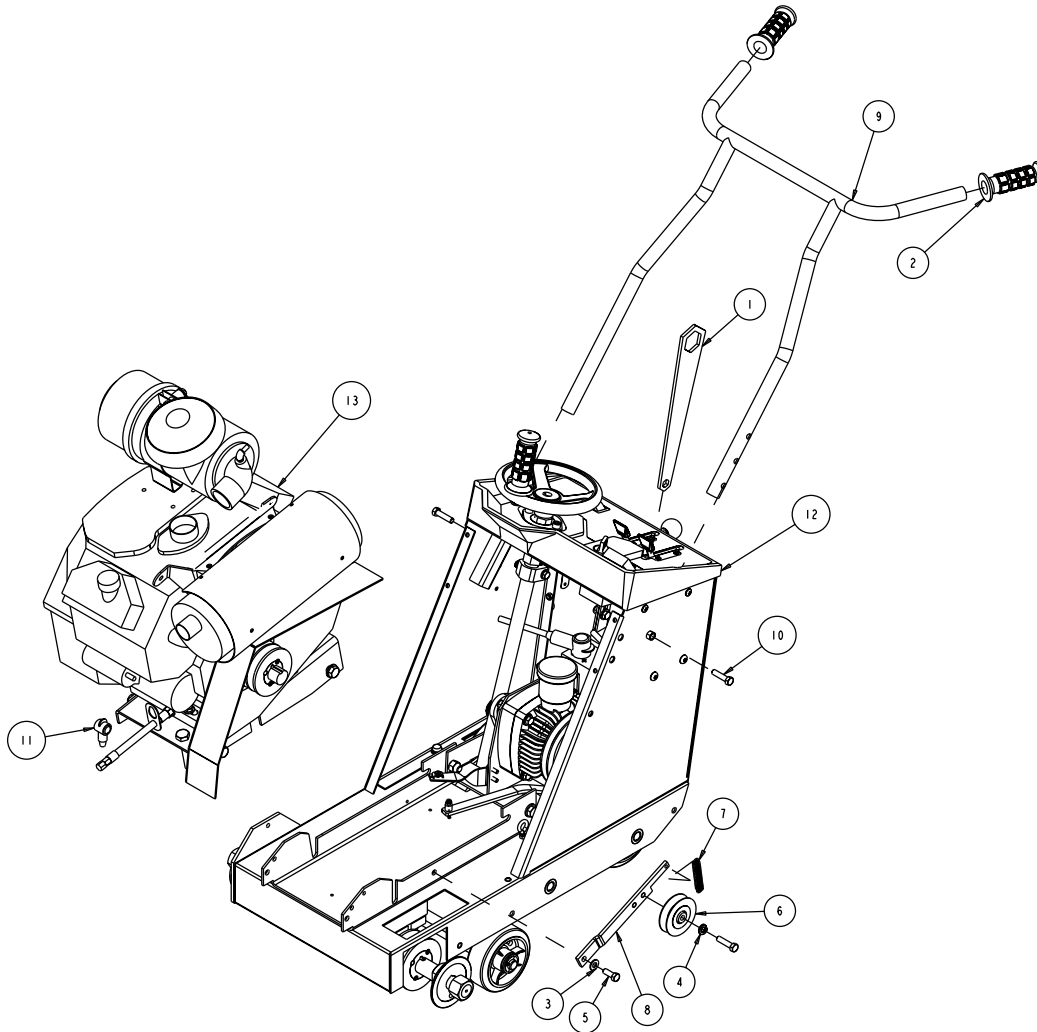


FIGURE 2 - PARTS LIST: MK-2024HSP CONCRETE SAW - P/N 158777

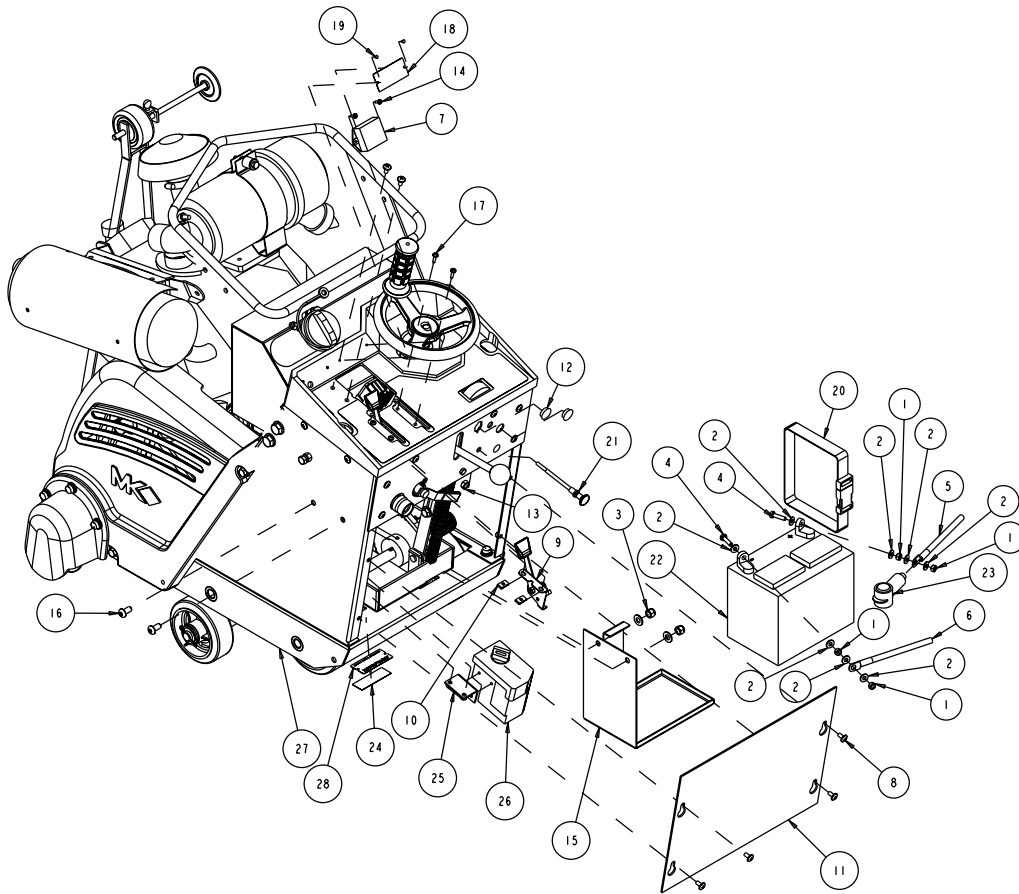
ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, HEX, 5/16 - 18	101196	2
2	BELT, BX34	150764	2
3	SCREW, 3/8 - 16 X 1 -1/4 HEX HEAD CAP	150774	2
4	WASHER, FLAT, SAE 3/8	150923	17
5	WASHER, 1/2 SAE FLAT	150924	8
6	WASHER, LOCK, SPLIT, 3/8	150925	11
7	CLAMP, HOSE, 5.8	151198	4
8	NUT, 1/2 - 13 HEX	151282	4
9	SCREW, HEX HD, CAP, 5/16 - 18 X 3.4	151369	2
10	WASHER, 1/4 SAE FLAT	151915	12
11	NUT, 3/8 - 16 NYLOK HEX	152505	4
12	SCREW, HEX HD CAP, 3.8 -16 X 1	152507	10
13	WASHER, 1/2 SPLIT LOCK	153524	4
14	SCREW, HEX, 3/8 - 16 X 3.4	153527	1
15	SCREW, 1/2 - 13 X 1 -1/4 HEX HEAD CAP	153532	4
16	SCREW, 1/4 - 20 X 1/2 TRUSS HEAD	153880	10
17	NUT, HEX, TW, 1/4 - 20	153941	2
18	HOSE, 1/4 FUEL, 12"	154163	1
19	HOSE, 1/4 FUEL, 24"	154163	1
20	ELBOW, 1/4 MNPT STREET	154615	1
21	ELBOW, 1/8 MNPT X 1/4 BARB 90DEG	154652	1
22	BELT, AX-42	156110	1
23	GUARD, SHAFT (COMP)	156307	1
24	LIFTING BAIL	156543	1
25	BLADE, MK-799D 16 X 125 X 1	157769	1
26	NUT, HEX, NYLK, 5/16 - 18	158289	1
27	ASSY, BLD GRD 20"	158818	1
28	BELTGUARD (COMP)	159888	1
29	FITTING, PUSH ON HOSE 1/4 X 1/4 MALE	165183	1
30	ASSY, POINTER, CONC SAW	166465	1
31	CAP, 2" FUEL FILLER	167220	1
32	TANK, FUEL, 2.5 GAL	169353	1
33	ASSY, FRAME, LESS ENGINE	169719	1
34	ASSY, ENGINE, GX690	170048	1
35	VALVE, BALL, 1/4"M TO 1/4"F	231248	1

FIGURE 2 - PARTS LIST: MK-2024HSP CONCRETE SAW - P/N 158777



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	WRENCH, BOX END, 1-1/2 X 9/16	137976	1
2	GRIP, HANDLE, 1/0 ID	150842	2
3	WASHER, FLAT, SAE, 3/8	150923	3
4	WASHER, LOCK, SPLIT, 3.8	150925	1
5	SCREW, HEX HD CAP, 3.8 - 16 X 1	152507	1
6	PULLEY, 1A30 X 1/2 BORE IDLER	153797	1
7	SPRING, 9.16 X 2.5 EXTENSION	153807	1
8	BRACKET, IDLER PULLEY	154244	1
9	WELDENT, HANDLEBAR	156516	1
10	SCREW, HEX HEAD 3.8 - 16 X 1 - 1/2 LG.	156656	2
11	COVER, 8 - 4 AWG TERMINAL, RED	169355	1
12	ASSY, FRAME, LESS ENGINE	169719	1
13	ASSY, ENGINE, GX690	170048	1

FIGURE 2 - PARTS LIST: MK-2024HSP CONCRETE SAW - P/N 158777

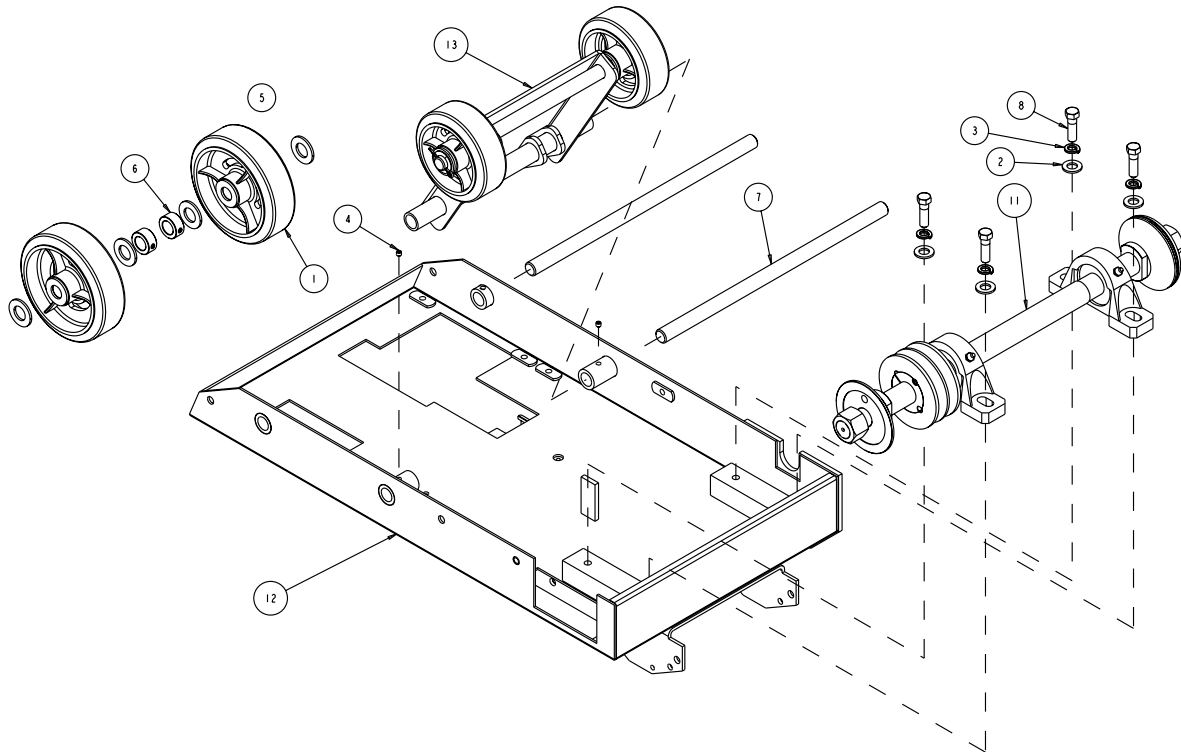


ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, HEX, 1/4 -20	151893	4
2	WASHER, 1/4 SAE FLAT	151915	12
3	NUT, 3/8 -16 NYLOK HEX	152505	4
4	SCREW, HEX HD CAP, 1/4 - 20 X 1	152676	2
5	CABLE, 4GA X 48 RED BATTERY	153848	1
6	CABLE, 4GA X 24 BLACK BATTERY	153849	1
7	TACHOMETER/HOURMETER	153877	1
8	SCREW, 1/4 -20 X 1/2 TRUSS HEAD	153880	10
9	ASSY, TROTTLE CONTROL	155406	1
10	NUT, 10 -24 CLIP	155407	2
11	PANEL, TOWER LOWER BACK	156505	1
12	PLUG, HOLE PLASTIC 3/4"	156615	2
13	NUT, 3/8 - 24 HEX JAM	156623	1
14	SCREW, PAN HD SELF TAP 8 - 32 X 1/2	156632	2
15	BOX, BATTERY	156634	1

FIGURE 2 - PARTS LIST: MK-2024HSP CONCRETE SAW - P/N 158777

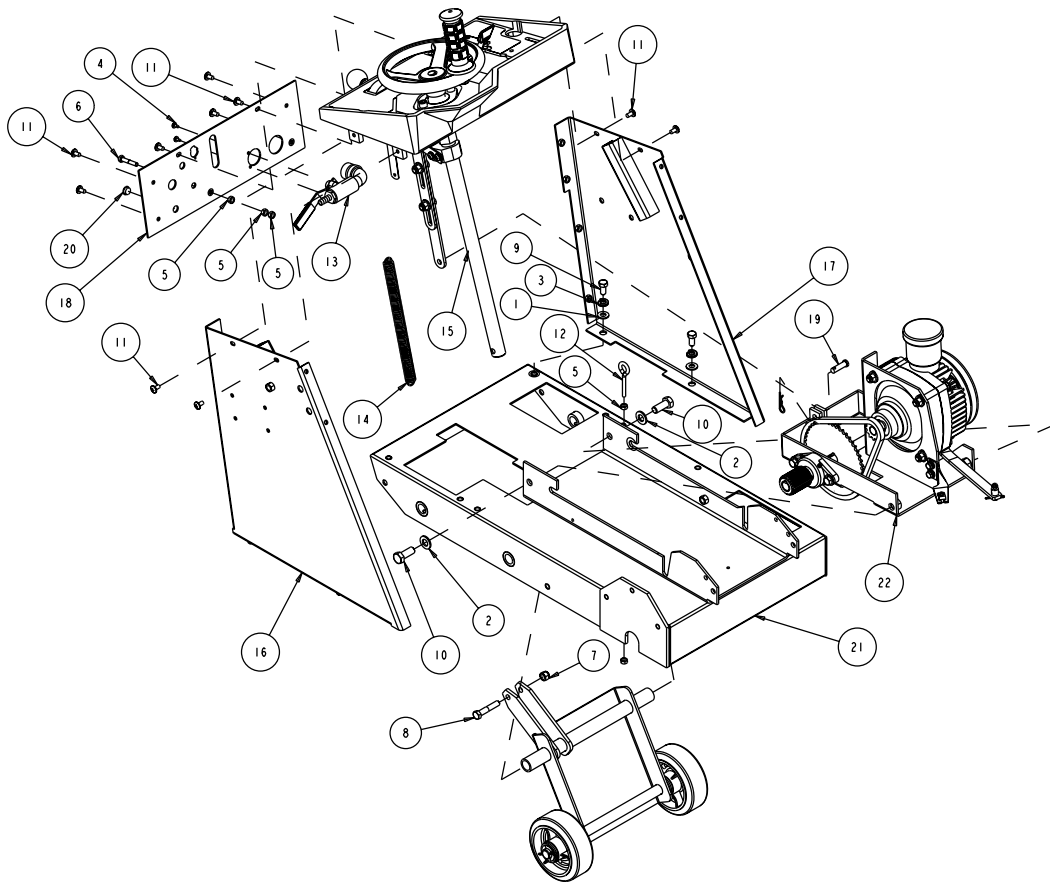
ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
16	SCREW, BTN HD 3/8 16 X 3/4 SOCK	156635	2
17	SCREW, PAN HD PHIL MS 10 24 X 3/4	156641	2
18	TAG, SERIAL #, BLANK	157500-RW	1
19	DRIVE SCREW, #7 X 5/16 ROUND HEAD	157849	2
20	STRAP, NYLON, 1"	158094	1
21	CABEL, CHOKE, HONDA (COMP)	158816	1
22	BATTERY, 12V, 35AH	162589	1
23	COVER, 1" BATTERY TERMINAL, RED	163940	1
24	TAPE, VHB, 5952 (3.0")	166487	1
25	BRACKET, SWITCH	169714	1
26	WIRING HARNESS, GX630/690	169715	1
27	ASSY, FRAME, LESS ENGINE	169719	1
28	TAG, EVAP, 20S, PARENT	169736-20S	1

FIGURE 3 - PARTS LIST: FRAME, LESS ENGINE - P/N 169719



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	WHEEL, REAR CONCRETE SAW	138529	2
2	WASHER, 1/2 SAE FLAT	150924	4
3	WASHER, 7/16 SPLIT LOCK	151051	5
4	SCREW, 5/16 - 18 X 1/2 SOCKET HEAD SET	152607	2
5	WASHER, FLAT, SAE, 3/4	153523	4
6	COLLAR, SET, 3/4"	153814	2
7	AXLE, REAR, Ø 3/4	153873	2
8	SCREW, 7/16 - 14 X 1 - 1/2 HEX HEAD CAP	155155	4
9	ASSY, THROTTLE CONTROL	155406	1
10	ASSY, PIN CLEVIS 3/8 X 1 - /14	156611	1
11	BLADE SHAFT 20HP	156654	1
12	FRAME, WELDMENT	157092	1
13	ASSY, TRUCK	169710	1

FIGURE 3 - PARTS LIST: FRAME, LESS ENGINE - P/N 169719



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	WASHER, FLAT, SAE, 3/8	150923	13
2	WASHER, 1/2 SAE FLAT	150924	2
3	WASHER, LOCK, SPLIT, 3/8	150925	4
4	SCREW, PAN HD SELF TP10-24 X 3/8	151262	2
5	NUT, HEX, 1/4 - 20	151893	6
6	SCREW, HEX HEAD 1/4 - 20 X 1 - 1/2"	151914	1
7	NUT, 3/8 - 16 NYLOK HEX	152505	6
8	SCREW, HEX HD, 3/8 - 16 X 2	153485	2
9	SCREW, HEX, 3/8 - 16 X 3/4	153527	4
10	SCREW, 1/2 - 13 X 1 - 1/4 HEX HEAD CAP	153532	2
11	SCREW, 1/4 - 20 X 1/2 TRUSS HEAD	153880	10
12	EYEBLT, 1/4 - 20 X 2	153887	1
13	ASSY, WATER VALVE	153888	1
14	SPRING, EXTENSION	153957	1
15	LINKAGE, DPTH FEED 1600/9000	155049	1
16	PANEL, RIGHT, 20 SERIES	156500	1
17	PANEL, LEFT, 20 SERIES	156501	1

FIGURE 3 - PARTS LIST: FRAME, LESS ENGINE - P/N 169719

ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
18	PANEL, UPPER BACK TOWER	156504	1
19	ASSY, PIN CLEVIS 3/8 X 1 - 1/4	156611	1
20	PLUG, 1/2 FLUSH HEAD BUTTON	156779	1
21	FRAME, WELDMENT	157092	1
22	ASSY, TRANSMISSION	169711	1

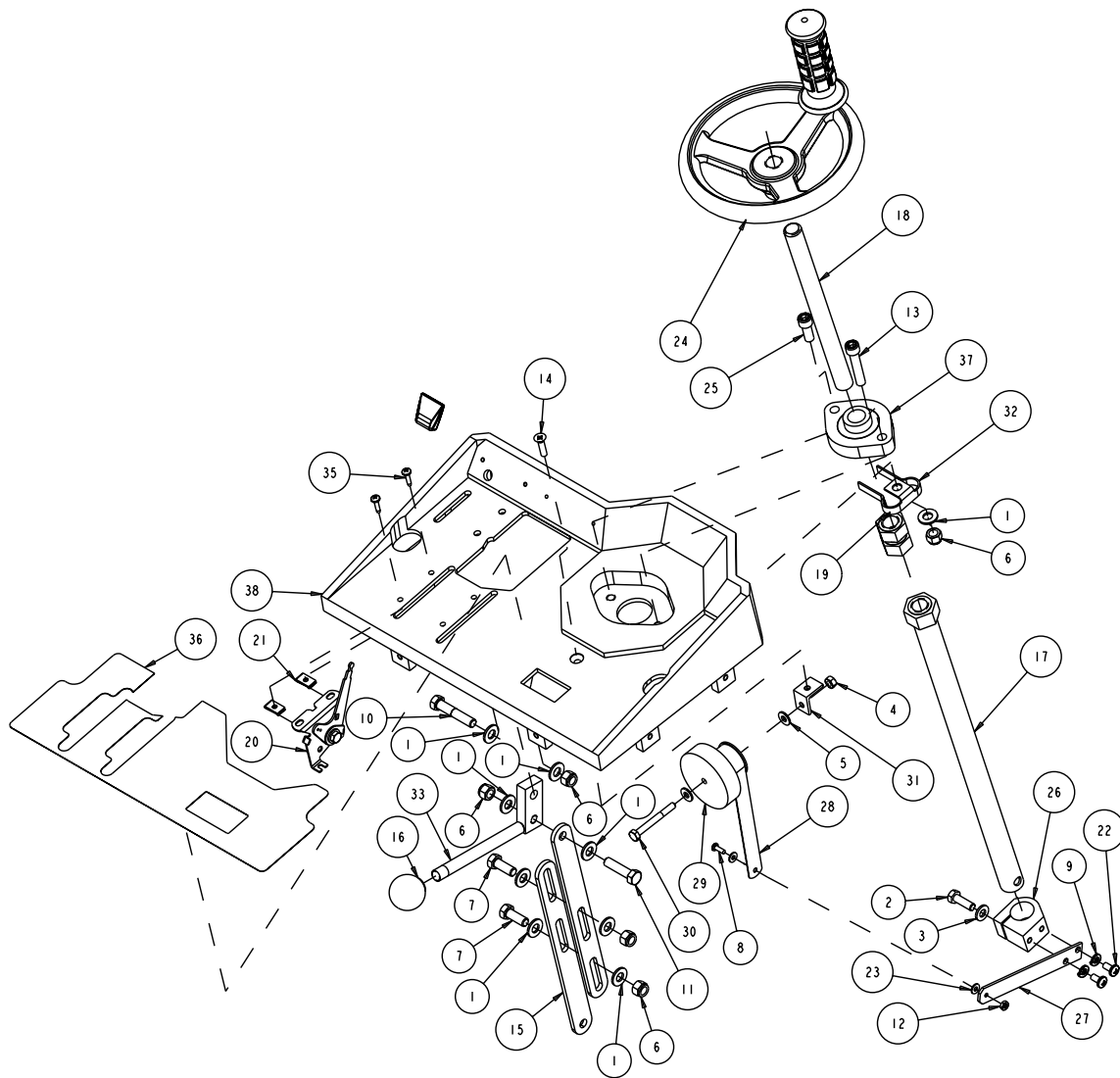
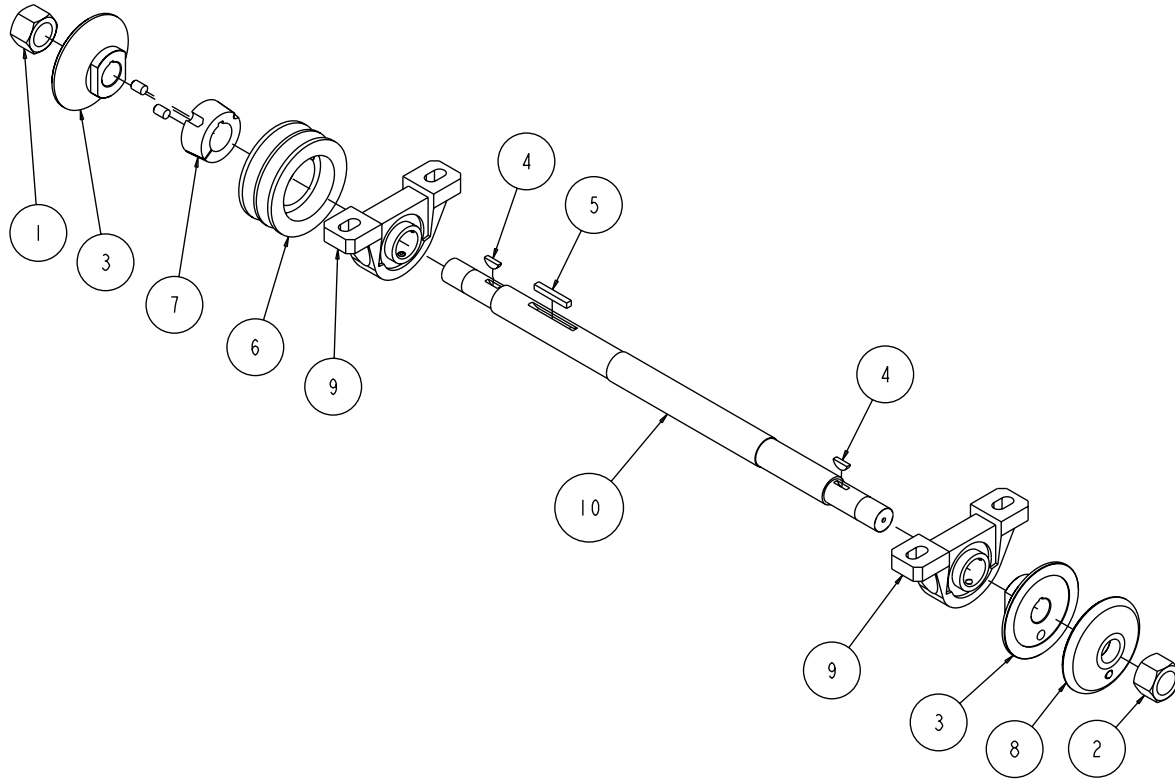


FIGURE 3 - PARTS LIST: FRAME, LESS ENGINE - P/N 169719

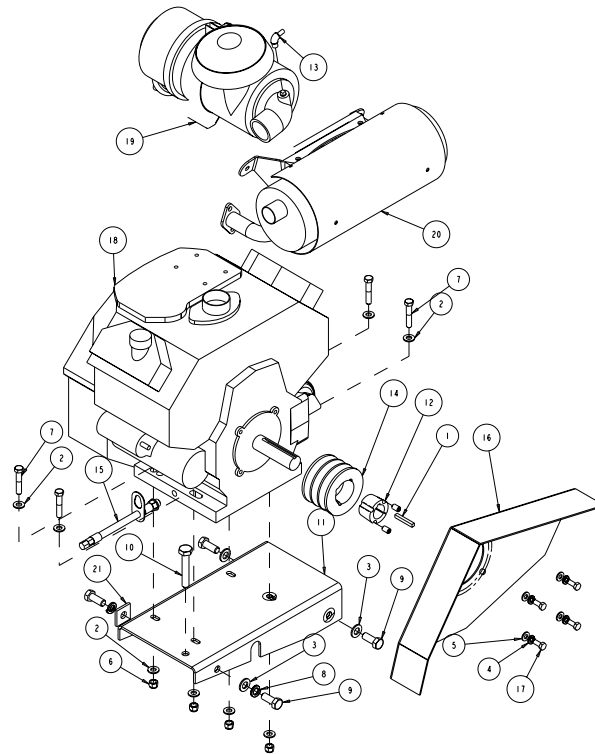
ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	WASHER, FLAT, SAE, 3/8	150923	9
2	SCREW, HEX HD, 5/16 - 18 X 1	151743	1
3	WASHER, FLAT, SAE, 5/16	151754	1
4	NUT, HEX, 1/4 - 20	151893	1
5	WASHER, 1/4 SAE FLAT	151915	2
6	NUT, 3/8 -16 NYLOK HEX	152505	5
7	SCREW, HEX HD CAP, 3.8 - 16 X 2	153485	2
8	SCREW, RND HD, #8 - 32 X 1/2	152517	1
9	WASHER, 1/4 SPLIT LOCK	152951	2
10	SCREW, HEX HD, 3/8 - 16 X 1	152507	2
11	SCREW, 3/8 -16 X 1-1/2 HEX HEAD	153528	1
12	NUT, HEX, 8 -32	153549	1
13	SCREW, SOC HD, CAP, 3.8 - 16 X2	153643	1
14	SCREW, FLAT HD, SOC, 1/4 -20 X 1"	153894	1
15	ARM, DRIVE ADJUSTMENT	154242	2
16	KNOB, 1/2 - 20 SSFEM BALL	154486	1
17	LINKAGE, DEPTH FEED 1600/9000	1550449	1
18	STUD, 3/4 - 10 X 10"	155062	1
19	NUT, 3/4 - 10 HEX	155063	2
20	ASSY, THROTTLE CONTROL	155406	1
21	NUT, 10 -24 CLIP	155407	2
22	SCREW, PAN HD, CAP, 14 - 20 X 1/2	155452	2
23	WASHER, FLAT, SAE, #8	155454	2
24	ASSY, CRANK WHEEL, 3/4 - 10	155457	1
25	SCREW, SOCKET HEAD CAP 3.8 - 16 X 1	156602	1
26	CLAMP, DEPTH INDICATOR	156603	1
27	ARM, DEPTH INDICATOR	156604	1
28	SPRING, DEPTH GAUGE	156605	1
29	SPOOL, 2.75 DIA DEPTH INDICATOR	156606	1
30	SCREW, HEX HD, CAP, 1/4 - 20 X 2 - 1/4	156607	1
31	BRACKET, DEPTH INDICATOR	156608	1
32	SPRING, DETENT	156609	1
33	HANDLE, ENGAGE	156610	1
34	ASSY, PIN CLEVIS 3.8 X 1 - 1/4	156611	1
35	SCREW, PAN HD PHIL MS 10 - 24 X 3/4	156641	2
36	LABEL, CONTROL PANEL	165136	1
37	BEARING, FLANGE, 3/4 ID, FD204	165971	1
38	CASING, CONTROL PANEL - COMP	169712	1

FIGURE 4 - PARTS LIST: BLADE SHAFT - P/N 156654



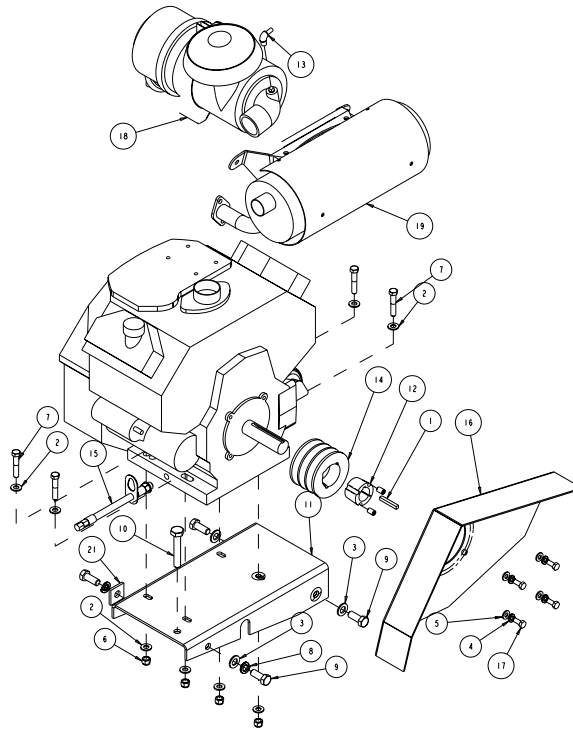
ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, 1 - 14 RIGHT HAND	138693	1
2	NUT, 1 - 14 LEFT HAND	138701	1
3	FLANGE, INNER	150731	2
4	KEY, 3/16 X 3/4 WOODRUFF	150794	2
5	KEY, SQUARE, 1/4 X 1 - 3/4	150796	1
6	PULLEY, 2A34B38 X 1610 TB	150010	1
7	BUSHING, TPR-LOCK 1610X1 - 3/16"	155011	1
8	ASSY, OUTER FLANGE, 4"	155451	1
9	BEARING, 1 - 3/16 ID PILLOW BLOCK	155622	2
10	SHAFT, 1 3/16 BLADE	156599	1

FIGURE 5 - PARTS LIST: ENGINE, HONDA GX630 - P/N 169713



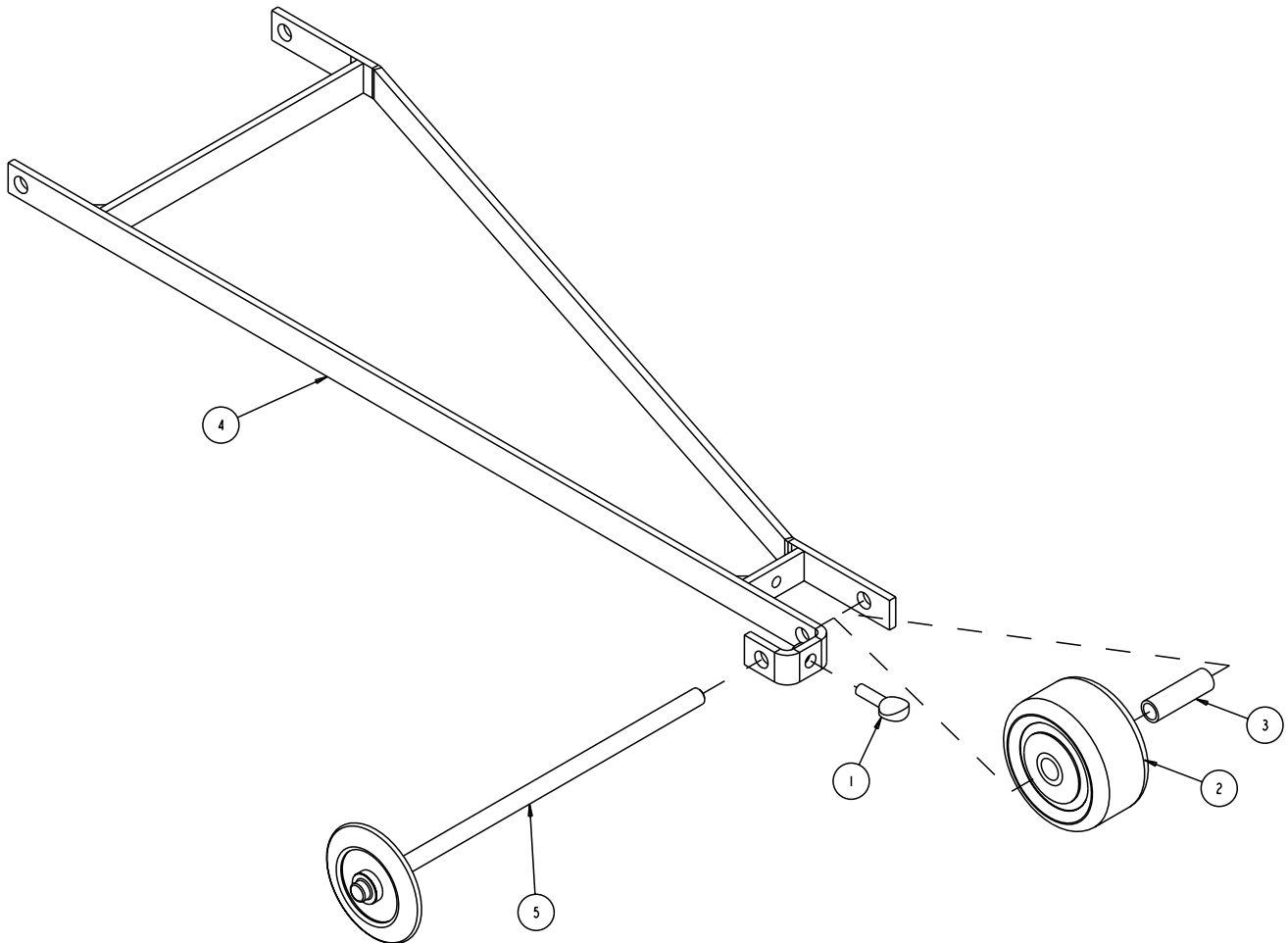
ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	KEY, SQUARE, 1/4 X 1 - 3/4	150796	1
2	WASHER, FLAT, SAE, 3/8	150923	8
3	WASHER, 1/2 SAE FLAT	150924	3
4	WASHER, LOCK, SPLIT, 5/16	151747	4
5	WASHER, FLAT, SAE, 5/16	151754	4
6	NUT, 3/8 - 16 NYLOK HEX	152505	4
7	SCREW, HEX HD, 3/8 - 16 X 2	153485	4
8	WASHER, 1/2 SPLIT LOCK	153524	2
9	SCREW, 1/2 - 13 X 1 - 1/4 HEX HEAD CAP	153532	4
10	BOLT, HEX, TAP, 1/2 - 13 X 4	153854	1
11	MOUNT, ENGINE	154237	1
12	BUSHING, TPR - LOCK 1210 X 1 - 1/8"	154430	1
13	ELBOW, 1/8 MNPT X 1/4 BARB 90DEG	154652	1
14	PULLEY, 3A30B34 X 1210TB REV	155009	1
15	ASSY, OIL DRAIN, 14MM	157577-03	1
16	GUARD, INNER BELT	165608	1
17	SCREW, 5/16 - 24 X 3/4 HEX HEAD MACHINE	165617	4
18	ENGINE, HONDA GX630	169592	1
19	ASSY, 7" AIR CLEANER	165593	1
20	MUFFLER, HONDA 20HP 621600	169594	1
21	WASHER, 1/2 SAE FLAT	169958	1

FIGURE 6 - PARTS LIST: ENGINE, HONDA GX690 - P/N 170048



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	KEY, SQUARE, 1/4 X 1 - 3/4	150796	1
2	WASHER, FLAT, SAE, 3/8	150923	8
3	WASHER, 1/2 SAE FLAT	150924	3
4	WASHER, LOCK, SPLIT, 5/16	151747	4
5	WASHER, FLAT, SAE, 5/16	151754	4
6	NUT, 3/8 - 16 NYLOK HEX	152505	4
7	SCREW, HEX HD, 3/8 - 16 X 2	153485	4
8	WASHER, 1/2 SPLIT LOCK	153524	2
9	SCREW, 1/2 - 13 X 1 - 1/4 HEX HEAD CAP	153532	4
10	BOLT, HEX, TAP, 1/2 - 13 X 4	153854	1
11	MOUNT, ENGINE	154237	1
12	BUSHING, TPR - LOCK 1210 X 1 - 1/8"	154430	1
13	ELBOW, 1/8 MNPT X 1/4 BARB 90DEG	154652	1
14	PULLEY, 3A30B34 X 1210TB REV	155009	1
15	ASSY, OIL DRAIN, 14MM	157577-03	1
16	GUARD, INNER BELT	165608	1
17	SCREW, 5/16 - 24 X 3/4 HEX HEAD MACHINE	165617	4
18	ASSY, 7" AIR CLEANER	169593	1
19	MUFFLER, HONDA 20HP 621600	169594	1
20	ENGINE, HONDA GX690	169716	1
21	WASHER, 1/2 SAE FLAT	169958	1

FIGURE 7 - PARTS LIST: ASSY, POINTER - P/N 166465



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	SCREW, THUMB 1/4 - 20 X 3/4	150991	1
2	WHEEL, POINTER, 3"	155066	1
3	BUSHING, 3/8ID X 1 - 5/8L	155153	1
4	POINTER ARM, CONC SAW	156544	1
5	ASSY, POINTER WHEEL	165238	1

ORDERING INFORMATION

You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

When ordering direct from MK Diamond, please have the following information ready before calling:

- The Model Number of the saw
- The Serial Number of the saw
- Where the saw was purchased and when
- The Part Number for the part(s) being ordered
- The Part Description for the part(s) being ordered

NOTE: There is a \$25.00 minimum order when ordering direct from MK Diamond. A \$6.00 charge will be added to orders having a net billing value under \$50.00. All purchases must be made using VISA, MasterCard or American Express.

All parts may be ordered by calling toll free to – 800 421-5830 or 310 539-5221 and asking for Customer Service. For technical questions, call – 800 474-5594.

RETURN MATERIALS POLICY

To expedite the service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service. For technical questions, call – 800 474-5594 or 310 257-2845.

PACKAGING INSTRUCTIONS

- Remove the Cutting Head and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: Saw, Diamond Blade, and Blade Guard Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
- Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS

For quicker repair time, you may contact MK Diamond Customer Service, toll free, at 800 421-5830 or 310 539-5221 for the Authorized Service Center closest to you or visit our web site at www.mkdiamond.com. For technical questions, call – 800 474-5594.

CONTACT:

Please contact MK Diamond Products, Inc. Customer Service Department with any questions you might have regarding distributors, parts or service.

Telephone: **(800) 421-5830**

Fax: **(310) 539-5158**

E-mail: **Customer_Service@MKDiamond.com**

Customer Service Hours: **Monday through Friday, 6AM-4PM PST**

**MK Diamond Products, Inc.
1315 Storm Parkway
Torrance, CA 90501**

MK DIAMOND PRODUCTS, INC. LIMITED WARRANTY

MK DIAMOND PRODUCTS, INC. will guarantee every machine they build, to be free from defects in material and workmanship for (1) one year from date of purchase. The obligation of MK DIAMOND PRODUCTS, INC. under this warranty is limited to the repair or replacement of any parts which, under normal use, prove to be defective in material or workmanship. The parts involved or the unit in question should be returned to MK DIAMOND PRODUCTS, INC. or to a point designated by us, transportation prepaid.

This warranty does not obligate us to bear the cost of labor or transportation charges in connection with replacement or repair of defective parts. Likewise, it shall NOT apply to any unit which has been subjected to misuse, neglect or accident. This warranty does NOT apply to any machine which has been repaired or altered outside our factory.

This warranty does NOT obligate MK DIAMOND PRODUCTS, INC., with respect to items not of our manufacture, such as engines, motors, hydraulics, etc., which are subject to their own guarantees and warranties.

We shall in no event be liable for consequential damages or contingent liabilities arising out of failure of any equipment or parts to operate properly.

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MK Diamond may have patents, patent applications, trade marks, copyrights of other intellectual property right covering this product in this document.

This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

The information and specifications included in this publication were in effect at the time of approval for printing.

MK-20 SERIES CONCRETE SAW
OWNER'S MANUAL, OPERATING INSTRUCTIONS, &
PARTS LIST



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